

Input

17

Geometry Type: Rectangular
 Invert: 9.54 ft
 Control Elevation: 9.54 ft
 Max Depth: 3.00 ft
 Max Width: 4.50 ft
 Fillet: 0.00 ft

Default: 0.00 ft

Op Table:

Ref Node:

Discharge Coefficients

Weir Default: 3.200

Weir Table:

Orifice Default: 0.600

Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: E1

Upstream Pipe

Downstream Pipe

Scenario: Icp3
 From Node: E1
 To Node: ST.LUCIE RIVER
 Link Count: 1
 Flow Direction: Both
 Solution: Combine
 Increments: 10
 Pipe Count: 1
 Damping: 0.0000 ft
 Length: 115.00 ft
 FHWA Code: 1
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00
 Bend Location: 0.00 ft
 Energy Switch: Energy

Invert: 0.29 ft

Manning's N: 0.0120

Geometry: Circular

Max Depth: 2.00 ft

Invert: 0.29 ft

Manning's N: 0.0120

Geometry: Circular

Max Depth: 2.00 ft

Bottom Clip

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0120

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0120

Top Clip

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0120

Default: 0.00 ft

Op Table:

Ref Node:

Manning's N: 0.0120

Pipe Comment:

Weir Component

Weir: 1

Weir Count: 1

Weir Flow Direction: Both

Damping: 0.0000 ft

Weir Type: Sharp Crested Vertical

Geometry Type: Circular

Invert: 5.54 ft

Control Elevation: 5.54 ft

Max Depth: 0.38 ft

Bottom Clip

Default: 0.00 ft

Op Table:

Ref Node:

Top Clip

Default: 0.00 ft

Op Table:

Ref Node:

Discharge Coefficients

Weir Default: 3.200

Weir Table:

Orifice Default: 0.600

Orifice Table:

Weir Comment:

Weir Component

Input

18

Weir: 2
 Weir Count: 1
 Weir Flow Direction: Both
 Damping: 0.0000 ft
 Weir Type: Sharp Crested Vertical
 Geometry Type: Rectangular
 Invert: 6.61 ft
 Control Elevation: 6.61 ft
 Max Depth: 83.25 ft
 Max Width: 0.77 ft
 Fillet: 0.00 ft

Bottom Clip
 Default: 0.00 ft
 Op Table:
 Ref Node:
 Top Clip
 Default: 0.00 ft
 Op Table:
 Ref Node:
 Discharge Coefficients
 Weir Default: 3.200
 Weir Table:
 Orifice Default: 0.600
 Orifice Table:

Weir Comment:

Weir Component

Weir: 3
 Weir Count: 1
 Weir Flow Direction: Both
 Damping: 0.0000 ft
 Weir Type: Horizontal
 Geometry Type: Rectangular
 Invert: 8.50 ft
 Control Elevation: 8.50 ft
 Max Depth: 3.00 ft
 Max Width: 4.50 ft
 Fillet: 0.00 ft

Bottom Clip
 Default: 0.00 ft
 Op Table:
 Ref Node:
 Top Clip
 Default: 0.00 ft
 Op Table:
 Ref Node:
 Discharge Coefficients
 Weir Default: 3.200
 Weir Table:
 Orifice Default: 0.600
 Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: E2

Scenario: Icp3
 From Node: E2
 To Node: Manhole
 Link Count: 1
 Flow Direction: Both
 Solution: Combine
 Increments: 10
 Pipe Count: 1
 Damping: 0.0000 ft
 Length: 178.00 ft
 FHWA Code: 1
 Entr Loss Coef: 0.00
 Exit Loss Coef: 0.00
 Bend Loss Coef: 0.00

Upstream Pipe
 Invert: 2.24 ft
 Manning's N: 0.0120
 Geometry: Circular
 Max Depth: 2.50 ft
 Bottom Clip
 Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0120
 Top Clip
 Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0120

Downstream Pipe
 Invert: 2.24 ft
 Manning's N: 0.0120
 Geometry: Circular
 Max Depth: 2.50 ft
 Bottom Clip
 Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0120
 Top Clip
 Default: 0.00 ft
 Op Table:
 Ref Node:
 Manning's N: 0.0120

Input

19

Bend Location: 0.00 ft

Energy Switch: Energy

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 7.74 ft	Op Table:
Control Elevation: 7.74 ft	Ref Node:
Max Depth: 0.25 ft	Discharge Coefficients
	Weir Default: 3.200
	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 8.54 ft	Op Table:
Control Elevation: 8.54 ft	Ref Node:
Max Depth: 83.25 ft	Discharge Coefficients
Max Width: 3.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 9.29 ft	Op Table:
Control Elevation: 9.29 ft	Ref Node:
Max Depth: 4.50 ft	Discharge Coefficients
Max Width: 3.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: E3/S-2-33

		Upstream Pipe	Downstream Pipe
Scenario:	Icpr3	Invert: 0.54 ft	Invert: 0.54 ft
From Node:	E3	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Manhole	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0120	Manning's N: 0.0120
Length:	650.00 ft	Top Clip	
FHWA Code:	1	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.00	Op Table:	Op Table:
Exit Loss Coef:	0.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0120	Manning's N: 0.0120
Bend Location:	0.00 ft		
Energy Switch:	Energy		

Pipe Comment:

Weir Component

Weir:	1	Bottom Clip
Weir Count:	1	Default: 0.00 ft
Weir Flow Direction:	Both	Op Table:
Damping:	0.0000 ft	Ref Node:
Weir Type:	Horizontal	Top Clip
Geometry Type:	Rectangular	Default: 0.00 ft
Invert:	5.54 ft	Op Table:
Control Elevation:	5.54 ft	Ref Node:
Max Depth:	3.00 ft	Discharge Coefficients
Max Width:	4.50 ft	Weir Default: 3.200
Fillet:	0.00 ft	Weir Table:
		Orifice Default: 0.600
		Orifice Table:

Weir Comment:

Drop Structure Comment:

Weir Link: IQ Overflow

Scenario:	Icpr3	Bottom Clip
From Node:	IQ LAKE	Default: 0.00 ft
To Node:	ST.LUCIE RIVER	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip

Input

21

Damping:	0.0000 ft	
Weir Type:	Sharp Crested Vertical	Default: 0.00 ft
Geometry Type:	Rectangular	Op Table:
Invert:	8.54 ft	Ref Node:
Control Elevation:	8.54 ft	Discharge Coefficients:
Max Depth:	8333.25 ft	Weir Default: 3.200
Max Width:	250.00 ft	Weir Table:
Fillet:	0.00 ft	Orifice Default: 0.600
		Orifice Table:

Comment:

Pipe Link: P1

	Upstream	Downstream
Scenario:	Icpr3	
From Node:	Manhole	
To Node:	E1	
Link Count:	1	
Flow Direction:	Both	
Damping:	0.0000 ft	
Length:	498.00 ft	
FHWA Code:	1	
Entr Loss Coef:	0.00	
Exit Loss Coef:	0.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 ft	
Energy Switch:	Energy	
	Invert: 1.94 ft	Invert: -1.46 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 3.50 ft	Max Depth: 3.50 ft
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0120	Manning's N: 0.0120

Comment:

Simulation: 100YR

Scenario: Icpr3
 Run Date/Time: 7/24/2019 9:43:17 AM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	80.0000
	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]	
Min Calculation Time:	60.0000	0.1000	900.0000	
Max Calculation Time:		60.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	30.0000	30.0000
0	0	0	50.0000	15.0000
0	0	0	70.0000	30.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	30.0000	30.0000
0	0	0	50.0000	15.0000
0	0	0	70.0000	30.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Reference ET Folder:
Unit Hydrograph
Folder: ICPR3

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set: ICPR3

Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight: 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

IA Recovery Time: 24.0000 hr
ET for Manual Basins: False

Manual Basin Rain Opt: Global
OF Region Rain Opt: Global
Rainfall Name: Sfwmd72
Rainfall Amount: 14.00 in

Input

23

Edge Length Option: Automatic

Storm Duration: 72.0000 hr

Dflt Damping (2D): 0.0050 ft

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 1 ft2

Min Node Srf Area 113 ft2

(2D):

(1D):

Energy Switch (2D): Energy

Energy Switch (1D): Energy

Comment: MINIMUM CRITERIA FOR FINISHED FLOORS

100 YR, 72 HR STORM SETS MINIMUM FINISHED FLOOR ELEVATIONS

Simulation: 10YR

Scenario: Icpr3

Run Date/Time: 7/24/2019 9:44:37 AM

Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	30.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	5.0000	15.0000
0	0	0	15.0000	30.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	30.0000
0	0	0	5.0000	15.0000
0	0	0	15.0000	30.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Input

24

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Flmod
	Rainfall Amount: 6.80 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: MINIMUM CRITERIA FOR ROAD CROWN

10-YR, 24-HR DESIGN STORM SETS THE MINIMUM ELEVATION FOR ROADWAY

Simulation: 25YR

Scenario: Icpr3
 Run Date/Time: 7/24/2019 9:45:32 AM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

Year

Month

Day

Hour [hr]

Input

25

Start Time: 0 0 0 0.0000
 End Time: 0 0 0 360.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	30.0000	30.0000
0	0	0	50.0000	15.0000
0	0	0	70.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	30.0000	30.0000
0	0	0	50.0000	15.0000
0	0	0	70.0000	60.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Input

26

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight	0.5 dec		
Fact:			
dZ Tolerance:	0.0010 ft	Manual Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	Sfwmd72
		Rainfall Amount:	11.20 in
Edge Length Option:	Automatic	Storm Duration:	72.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area	1 ft2	Min Node Srf Area	113 ft2
(2D):		(1D):	
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment: MINIMUM CRITERIA FOR SITE PERIMETER BERM

25 YR, 72-HR DESIGN STORM SETS MINIMUM CRITERIA FOR SITE PERIMETER BERM

Basin Max

1

Manual Basin Runoff Summary [Icpr3]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
A	100YR	78.59	60.0000	14.00	11.95	17.5800	84.0	0.00	0.00
B	100YR	47.70	60.0000	14.00	12.49	10.5000	88.0	0.00	0.00
C1	100YR	21.70	60.0000	14.00	12.62	4.0000	89.0	0.00	0.00
C2	100YR	104.42	60.0000	14.00	12.35	21.2000	87.0	0.00	0.00
D	100YR	34.82	60.0000	14.00	12.62	6.9000	89.0	0.00	0.00
E1	100YR	154.35	60.0000	14.00	12.49	27.0000	88.0	0.00	0.00
E2	100YR	16.58	60.0000	14.00	12.62	3.0000	89.0	0.00	0.00
E3	100YR	30.76	60.0000	14.00	13.51	5.8000	96.0	0.00	0.00
IQ BASIN	100YR	19.73	60.0000	14.00	12.62	3.0000	89.0	0.00	0.00
NE-WL	100YR	204.16	60.0000	14.00	12.22	44.5400	86.0	0.00	0.00
SE-WL	100YR	179.97	60.0000	14.00	11.95	39.6000	84.0	0.00	0.00
A	10YR	42.12	12.0167	6.80	4.95	17.5800	84.0	0.00	0.00
B	10YR	27.14	12.0167	6.80	5.40	10.5000	88.0	0.00	0.00
C1	10YR	12.79	12.0167	6.80	5.51	4.0000	89.0	0.00	0.00
C2	10YR	59.18	12.0167	6.80	5.29	21.2000	87.0	0.00	0.00
D	10YR	20.31	12.0167	6.80	5.51	6.9000	89.0	0.00	0.00
E1	10YR	90.79	12.0167	6.80	5.40	27.0000	88.0	0.00	0.00
E2	10YR	9.80	12.0167	6.80	5.51	3.0000	89.0	0.00	0.00
E3	10YR	19.29	12.0167	6.80	6.32	5.8000	96.0	0.00	0.00
IQ BASIN	10YR	12.50	12.0000	6.80	5.51	3.0000	89.0	0.00	0.00
NE-WL	10YR	113.10	12.0167	6.80	5.17	44.5400	86.0	0.00	0.00
SE-WL	10YR	96.64	12.0167	6.80	4.95	39.6000	84.0	0.00	0.00
A	25YR	61.84	60.0000	11.20	9.20	17.5800	84.0	0.00	0.00
B	25YR	37.79	60.0000	11.20	9.71	10.5000	88.0	0.00	0.00
C1	25YR	17.22	60.0000	11.20	9.84	4.0000	89.0	0.00	0.00
C2	25YR	82.61	60.0000	11.20	9.59	21.2000	87.0	0.00	0.00
D	25YR	27.63	60.0000	11.20	9.84	6.9000	89.0	0.00	0.00
E1	25YR	122.36	60.0000	11.20	9.71	27.0000	88.0	0.00	0.00
E2	25YR	13.16	60.0000	11.20	9.84	3.0000	89.0	0.00	0.00
E3	25YR	24.58	60.0000	11.20	10.72	5.8000	96.0	0.00	0.00
IQ BASIN	25YR	15.67	60.0000	11.20	9.84	3.0000	89.0	0.00	0.00
NE-WL	25YR	161.24	60.0000	11.20	9.46	44.5400	86.0	0.00	0.00
SE-WL	25YR	141.61	60.0000	11.20	9.20	39.6000	84.0	0.00	0.00

Node Max

1

Node Max Conditions [Icpr3]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
A	100YR	0.00	11.23	0.0008	78.59	4.72	325657
B	100YR	0.00	10.59	0.0007	47.70	2.88	202307
C1	100YR	0.00	11.32	0.0009	21.70	6.61	78642
C2	100YR	0.00	11.31	0.0008	110.99	6.53	447359
D	100YR	0.00	9.71	0.0008	34.82	5.19	133999
E1	100YR	0.00	8.85	0.0009	169.57	19.29	455823
E2	100YR	0.00	9.41	0.0007	16.58	9.81	33709
E3	100YR	0.00	8.88	0.0010	30.76	9.34	75963
IQ LAKE	100YR	10.00	7.18	0.0005	19.72	0.00	87120
Manhole	100YR	8.54	8.87	0.0015	16.30	16.26	113
NE-WL	100YR	0.00	6.08	0.0005	209.28	45.88	1014761
SE-WL	100YR	0.00	7.68	0.0002	183.42	128.54	797851
ST.LUCIE RIVER	100YR	0.00	-0.36	0.0000	171.02	0.00	0
A	10YR	0.00	9.86	0.0009	42.11	1.38	161170
B	10YR	0.00	9.53	0.0005	27.14	0.78	187308
C1	10YR	0.00	10.09	0.0010	12.79	7.47	21780
C2	10YR	0.00	10.09	0.0008	65.72	2.15	260502
D	10YR	0.00	8.69	0.0009	20.31	0.71	73590
E1	10YR	0.00	7.49	0.0010	103.80	2.73	307937
E2	10YR	0.00	8.93	0.0009	9.80	2.58	30492
E3	10YR	0.00	7.49	0.0010	19.28	13.50	21780
IQ LAKE	10YR	10.00	6.29	0.0003	12.49	0.00	84929
Manhole	10YR	8.54	7.49	0.0014	13.72	13.68	113
NE-WL	10YR	0.00	5.53	0.0005	113.45	15.34	911161
SE-WL	10YR	0.00	7.57	0.0002	97.04	69.31	694993
ST.LUCIE RIVER	10YR	0.00	-0.36	0.0000	79.63	0.00	0
A	25YR	0.00	10.80	0.0010	61.83	3.53	258490
B	25YR	0.00	10.20	0.0007	37.79	2.00	187308
C1	25YR	0.00	10.93	0.0009	17.22	7.48	50147
C2	25YR	0.00	10.93	0.0009	89.62	4.98	362670
D	25YR	0.00	9.47	0.0009	27.63	1.47	116481
E1	25YR	0.00	8.48	0.0010	138.63	7.20	402426
E2	25YR	0.00	9.29	0.0006	13.15	6.44	32643
E3	25YR	0.00	8.49	0.0010	24.58	11.71	58438
IQ LAKE	25YR	10.00	6.83	0.0004	15.67	0.00	87120
Manhole	25YR	8.54	8.49	0.0025	16.76	16.72	113
NE-WL	25YR	0.00	5.88	0.0004	164.38	32.55	977264
SE-WL	25YR	0.00	7.63	0.0002	143.88	99.76	750468
ST.LUCIE RIVER	25YR	0.00	-0.36	0.0000	128.68	0.00	0

Link Max

1

Link Min/Max Conditions [Icpr3]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
1-SLR	100YR	45.88	0.00	0.08	2.48	4.52	3.50
2-SLR	100YR	128.54	0.00	0.12	1.87	1.87	1.87
A - Pipe	100YR	4.72	0.00	0.00	0.00	0.00	0.00
A - Weir: 1	100YR	0.48	0.00	0.00	8.41	8.41	8.41
A - Weir: 2	100YR	4.24	0.00	0.00	4.79	4.79	4.79
B1-1	100YR	0.34	0.00	0.00	0.00	0.00	0.00
B1-2	100YR	2.55	0.00	0.00	4.11	4.11	4.11
C1 - Pipe	100YR	6.61	0.00	0.01	0.00	0.00	0.00
C1 - Weir: 1	100YR	6.61	0.00	-0.01	0.20	0.20	0.20
C2 - Pipe	100YR	3.65	0.00	0.00	0.00	0.00	0.00
C2 - Weir: 1	100YR	0.76	0.00	0.00	7.75	7.75	7.75
C2 - Weir: 2	100YR	2.89	0.00	0.00	4.66	4.66	4.66
C2-3	100YR	2.89	0.00	0.00	4.66	4.66	4.66
D - Pipe	100YR	5.19	0.00	0.01	0.00	0.00	0.00
D - Weir: 1	100YR	0.38	0.00	0.00	0.00	0.00	0.00
D - Weir: 2	100YR	1.37	0.00	0.00	4.38	4.38	4.38
D - Weir: 3	100YR	3.44	0.00	0.01	1.33	1.33	1.33
E1 - Pipe	100YR	19.28	0.00	0.02	0.00	0.00	0.00
E1 - Weir: 1	100YR	0.94	0.00	0.00	8.51	8.51	8.51
E1 - Weir: 2	100YR	8.29	0.00	0.00	4.79	4.79	4.79
E1 - Weir: 3	100YR	10.06	0.00	0.01	1.90	1.90	1.90
E2 - Pipe	100YR	9.81	0.00	0.04	0.00	0.00	0.00
E2 - Weir: 1	100YR	0.25	0.00	0.00	0.00	0.00	0.00
E2 - Weir: 2	100YR	7.66	0.00	0.02	2.96	2.96	2.96
E2 - Weir: 3	100YR	1.98	0.00	0.01	1.10	1.10	1.10
E3/S-2-33 - Pipe	100YR	9.34	0.00	1.51	0.00	0.00	0.00
E3/S-2-33 - Weir: 1	100YR	9.34	0.00	1.27	0.69	0.69	0.69
IQ Overflow	100YR	0.00	0.00	0.00	0.00	0.00	0.00
P1	100YR	16.26	-0.17	2.60	1.69	1.69	1.69
1-SLR	10YR	15.34	0.00	0.04	1.73	3.34	2.54
2-SLR	10YR	69.31	0.00	0.08	1.53	1.53	1.53
A - Pipe	10YR	1.38	0.00	0.00	0.00	0.00	0.00
A - Weir: 1	10YR	0.36	0.00	0.00	6.24	6.24	6.24
A - Weir: 2	10YR	1.02	0.00	0.00	2.98	2.98	2.98
B1-1	10YR	0.23	0.00	0.00	0.00	0.00	0.00
B1-2	10YR	0.54	0.00	0.00	2.46	2.46	2.46
C1 - Pipe	10YR	7.47	0.00	0.01	0.00	0.00	0.00
C1 - Weir: 1	10YR	7.47	0.00	0.02	0.55	0.55	0.55
C2 - Pipe	10YR	1.35	0.00	0.00	0.00	0.00	0.00
C2 - Weir: 1	10YR	0.56	0.00	0.00	5.64	5.64	5.64
C2 - Weir: 2	10YR	0.80	0.00	0.00	3.04	3.04	3.04
C2-3	10YR	0.80	0.00	0.00	3.04	3.04	3.04
D - Pipe	10YR	0.71	0.00	0.00	0.00	0.00	0.00
D - Weir: 1	10YR	0.29	0.00	0.00	0.00	0.00	0.00
D - Weir: 2	10YR	0.42	0.00	0.00	2.95	2.95	2.95

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
D - Weir: 3	10YR	0.00	0.00	0.00	0.00	0.00	0.00
E1 - Pipe	10YR	2.73	0.00	0.00	0.00	0.00	0.00
E1 - Weir: 1	10YR	0.71	0.00	0.00	6.38	6.38	6.38
E1 - Weir: 2	10YR	2.03	0.00	0.00	3.00	3.00	3.00
E1 - Weir: 3	10YR	0.00	0.00	0.00	0.00	0.00	0.00
E2 - Pipe	10YR	2.58	0.00	0.01	0.00	0.00	0.00
E2 - Weir: 1	10YR	0.24	0.00	0.00	0.00	0.00	0.00
E2 - Weir: 2	10YR	2.34	0.00	0.01	2.00	2.00	2.00
E2 - Weir: 3	10YR	0.00	0.00	0.00	0.00	0.00	0.00
E3/S-2-33 - Pipe	10YR	13.50	0.00	1.18	0.00	0.00	0.00
E3/S-2-33 - Weir: 1	10YR	13.50	0.00	1.06	0.88	0.88	0.88
IQ Overflow	10YR	0.00	0.00	0.00	0.00	0.00	0.00
P1	10YR	13.68	-0.11	2.26	1.42	1.42	1.42
1-SLR	25YR	32.55	0.00	0.05	2.22	4.11	3.16
2-SLR	25YR	99.76	0.00	0.09	1.72	1.72	1.72
A - Pipe	25YR	3.53	0.00	0.00	0.00	0.00	0.00
A - Weir: 1	25YR	0.45	0.00	0.00	7.79	7.79	7.79
A - Weir: 2	25YR	3.08	0.00	0.00	4.30	4.30	4.30
B1-1	25YR	0.30	0.00	0.00	0.00	0.00	0.00
B1-2	25YR	1.70	0.00	0.00	3.59	3.59	3.59
C1 - Pipe	25YR	7.48	0.00	-0.02	0.00	0.00	0.00
C1 - Weir: 1	25YR	7.48	0.00	-0.03	0.25	0.25	0.25
C2 - Pipe	25YR	2.84	0.00	0.00	0.00	0.00	0.00
C2 - Weir: 1	25YR	0.70	0.00	0.00	7.15	7.15	7.15
C2 - Weir: 2	25YR	2.14	0.00	0.00	4.22	4.22	4.22
C2-3	25YR	2.14	0.00	0.00	4.22	4.22	4.22
D - Pipe	25YR	1.47	0.00	0.00	0.00	0.00	0.00
D - Weir: 1	25YR	0.36	0.00	0.00	0.00	0.00	0.00
D - Weir: 2	25YR	1.11	0.00	0.00	4.09	4.09	4.09
D - Weir: 3	25YR	0.00	0.00	0.00	0.00	0.00	0.00
E1 - Pipe	25YR	7.20	0.00	0.01	0.00	0.00	0.00
E1 - Weir: 1	25YR	0.88	0.00	0.00	7.99	7.99	7.99
E1 - Weir: 2	25YR	6.32	0.00	0.00	4.38	4.38	4.38
E1 - Weir: 3	25YR	0.00	0.00	0.00	0.00	0.00	0.00
E2 - Pipe	25YR	6.44	0.00	0.01	0.00	0.00	0.00
E2 - Weir: 1	25YR	0.27	0.00	0.00	0.00	0.00	0.00
E2 - Weir: 2	25YR	6.20	0.00	0.01	2.77	2.77	2.77
E2 - Weir: 3	25YR	0.00	0.00	0.00	0.00	0.00	0.00
E3/S-2-33 - Pipe	25YR	11.71	0.00	1.49	0.00	0.00	0.00
E3/S-2-33 - Weir: 1	25YR	11.71	0.00	-1.25	0.87	0.87	0.87
IQ Overflow	25YR	0.00	0.00	0.00	0.00	0.00	0.00
P1	25YR	16.72	-0.14	2.37	1.74	1.74	1.74

APPENDIX M

Stage Storage

BASIN A **STAGE STORAGE DATA**

Name	Site	Lake Bank	Roadway	Offsite S.R 76	Lake A1	Lake A2	Wetland 19		
Area	7.5	0.5	2.7	0.5	2.3	0.9	0.6		
S. Elev	10.14	8.04	10.14	11.54	8.04	8.04	10.04		
E. Elev	13.54	11.04	13.04	12.54					
Stage	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Linear Storage ac-ft	Vert. Storage ac-ft	Vert. Storage ac-ft	Vert. Storage ac-ft	WQ* Storage ac-ft	Attenuation Storage ac-ft
NAVD									
7.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.54	0.0	0.0	0.0	0.0	1.2	0.5	0.0	1.6	1.6
8.99	0.0	0.1	0.0	0.0	2.2	0.9	0.0	3.1	3.1
9.04	0.0	0.1	0.0	0.0	2.3	0.9	0.0	3.3	3.3
9.54	0.0	0.2	0.0	0.0	3.5	1.4	0.0	5.0	5.0
10.04	0.0	0.3	0.0	0.0	4.6	1.8	0.0	6.7	6.7
10.54	0.2	0.5	0.1	0.0	5.8	2.3	0.3	8.8	9.1
11.04	0.9	0.8	0.4	0.0	6.9	2.7	0.6	11.6	12.2
11.54	2.2	1.0	0.9	0.0	8.1	3.2	0.9	15.3	16.2
12.04	4.0	1.3	1.7	0.1	9.2	3.6	1.2	19.8	21.0
12.54	6.3	1.5	2.7	0.3	10.4	4.1	1.5	25.2	26.7
13.04	9.2	1.8	3.9	0.5	11.5	4.5	1.8	31.4	33.2
13.54	12.7	2.0	5.3	0.8	12.7	5.0	2.1	38.3	40.4

Wetland areas are not included within water quality volume calculations.

MARTIN COUNTY, FLORIDA



SHEET INDEX

- 1 COVER SHEET
- 2 KEY SHEET & PHASING PLAN
- 3 CLEARING AND EROSION CONTROL PH-1A
- 4 CLEARING AND EROSION CONTROL PH-1B
- 5 CLEARING AND EROSION CONTROL PH-2A
- 6 CLEARING AND EROSION CONTROL PH-2B
- 7 PAVING, DRAINAGE AND GRADING PLANS
- 8 PAVING, DRAINAGE AND GRADING PLANS
- 9 DETAILS: PAVING, GRADING AND DRAINAGE
- 10 UTILITY PLANS -B
- 11 UTILITY PLANS -B
- 12 SEWER PROFILES
- 13 DETAILS: WATER AND SANITARY
- 14 DETAILS: WATER AND SANITARY
- 15 PROJECT SPECIFICATIONS
- 16 PROJECT SPECIFICATIONS
- 17 PROJECT SPECIFICATIONS

PROFESSIONAL DANCER
BLANE BERGSTRESSER, P.E.

Kimley»»Horn

SCALE	AS SHOWN	Kimley»Horn 445 W. 24th STREET, SUITE 300, WOOD BRANCH, FL 33060 PHONE (772) 781-1121 FAX (772) 784-1120 ©2017 KIMLEY-HORN AND ASSOC., INC. CA 00000096
DESIGNED BY	SOS	
DRAWN BY	PWR	
CHECKED BY		
FILE - COVER SHEET.dwg		

DATE: JUNE 2017

FILE & DRAWING NO.: 0410522010

SHEET: 1 of 17

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DATE	SHEET
FILE	

SCALE AS SHOWN	DESIGNED BY SDS	SDS
FRAMING BY PWR	DESIGNED BY	SDS
FILE 2 KEY SHEET & 1		

Kimley»»»Horn

445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
 PHONE (772) 794-4100 FAX (772) 794-4130
 6301 W. HWY 100 #550C, INC. CA 90000099

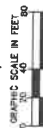
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LEGEND

- EXIST. GRADE
- PROPOSED GRADE
- PROPOSED BASIN LINE
- PROPOSED BERM PERIMETER
- RIGHT-OF-WAY LINE
- LOT DIMENSION
- LOT DIMENSION RIGHT-OF-WAY LINE
- ROAD CENTER LINE

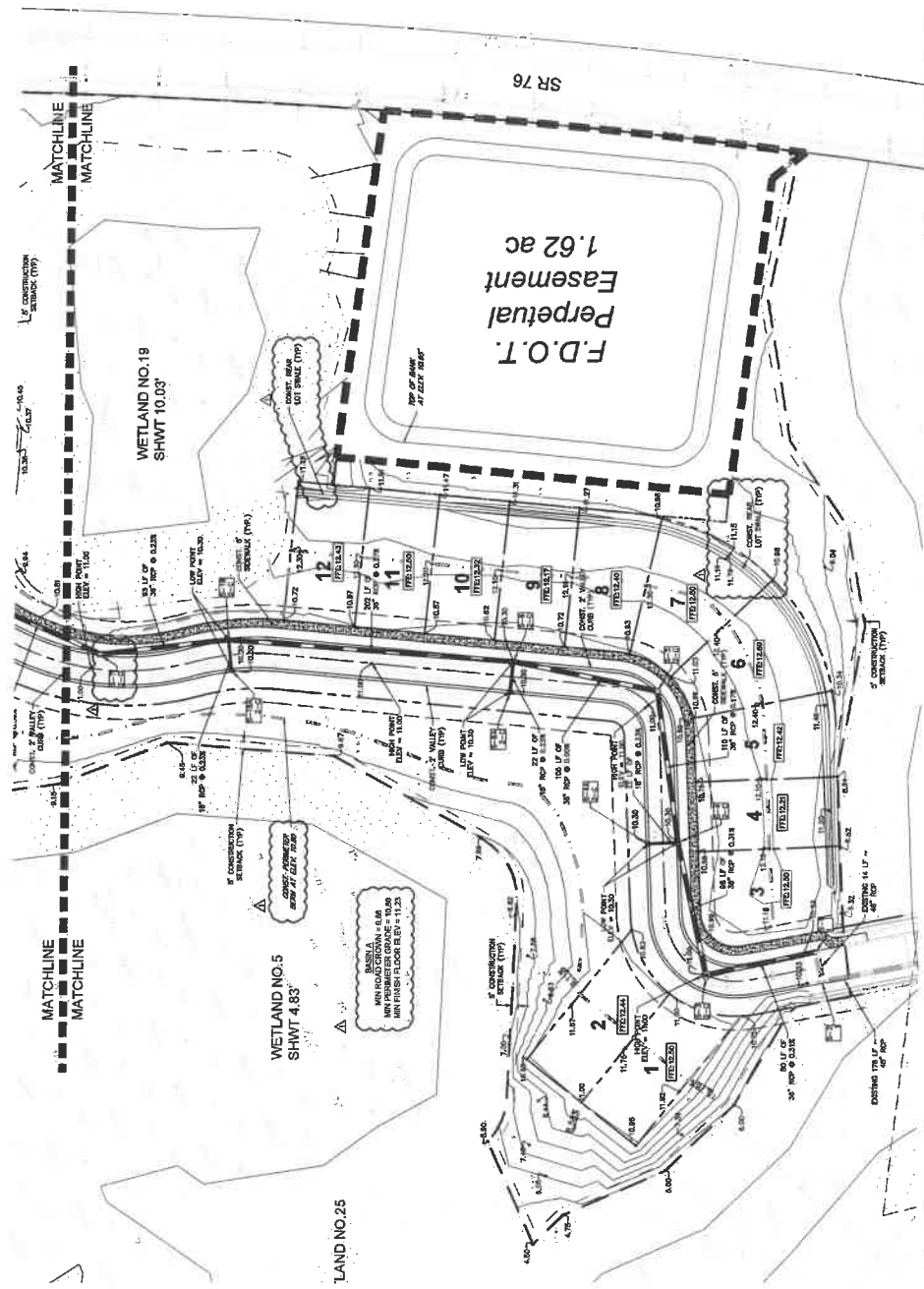
100' @ 0.4% FLOW DIRECTION W/SLOPE

- PROPOSED ASPHALT
- PROPOSED CONC. SIDEWALK
- EXISTING WETLAND
- 50' WETLAND UPLAND BUFFER
- STRUCTURE NUMBER
- PHASE



NO.	STATIONING	STRUCTURE TYPE	R/W	INVERT
1	10+00.00	18" DIA. MANHOLE	15.00	15.00
2	10+00.00	18" DIA. MANHOLE	15.00	15.00
3	10+00.00	18" DIA. MANHOLE	15.00	15.00
4	10+00.00	18" DIA. MANHOLE	15.00	15.00
5	10+00.00	18" DIA. MANHOLE	15.00	15.00
6	10+00.00	18" DIA. MANHOLE	15.00	15.00
7	10+00.00	18" DIA. MANHOLE	15.00	15.00
8	10+00.00	18" DIA. MANHOLE	15.00	15.00
9	10+00.00	18" DIA. MANHOLE	15.00	15.00
10	10+00.00	18" DIA. MANHOLE	15.00	15.00
11	10+00.00	18" DIA. MANHOLE	15.00	15.00
12	10+00.00	18" DIA. MANHOLE	15.00	15.00
13	10+00.00	18" DIA. MANHOLE	15.00	15.00
14	10+00.00	18" DIA. MANHOLE	15.00	15.00
15	10+00.00	18" DIA. MANHOLE	15.00	15.00
16	10+00.00	18" DIA. MANHOLE	15.00	15.00
17	10+00.00	18" DIA. MANHOLE	15.00	15.00
18	10+00.00	18" DIA. MANHOLE	15.00	15.00
19	10+00.00	18" DIA. MANHOLE	15.00	15.00
20	10+00.00	18" DIA. MANHOLE	15.00	15.00

NO.	STATIONING	STRUCTURE TYPE	R/W	INVERT
1	10+00.00	18" DIA. MANHOLE	15.00	15.00
2	10+00.00	18" DIA. MANHOLE	15.00	15.00
3	10+00.00	18" DIA. MANHOLE	15.00	15.00
4	10+00.00	18" DIA. MANHOLE	15.00	15.00
5	10+00.00	18" DIA. MANHOLE	15.00	15.00
6	10+00.00	18" DIA. MANHOLE	15.00	15.00
7	10+00.00	18" DIA. MANHOLE	15.00	15.00
8	10+00.00	18" DIA. MANHOLE	15.00	15.00
9	10+00.00	18" DIA. MANHOLE	15.00	15.00
10	10+00.00	18" DIA. MANHOLE	15.00	15.00
11	10+00.00	18" DIA. MANHOLE	15.00	15.00
12	10+00.00	18" DIA. MANHOLE	15.00	15.00
13	10+00.00	18" DIA. MANHOLE	15.00	15.00
14	10+00.00	18" DIA. MANHOLE	15.00	15.00
15	10+00.00	18" DIA. MANHOLE	15.00	15.00
16	10+00.00	18" DIA. MANHOLE	15.00	15.00
17	10+00.00	18" DIA. MANHOLE	15.00	15.00
18	10+00.00	18" DIA. MANHOLE	15.00	15.00
19	10+00.00	18" DIA. MANHOLE	15.00	15.00
20	10+00.00	18" DIA. MANHOLE	15.00	15.00



PAVING, DRAINAGE AND GRADING PLAN-A

BANYAN BAY - PHASE 2C
MARTIN COUNTY, FLORIDA

Kimley-Horn

DATE: JUNE 2017
PROJECT NO.: 14152200
SHEET: 7 OF 17

NO.	DATE	BY	REVISIONS
1	06-20-17	AND	ADD

Professional Engineer
NAME: [Redacted]
STATE: FLORIDA

DATE: 06-20-17

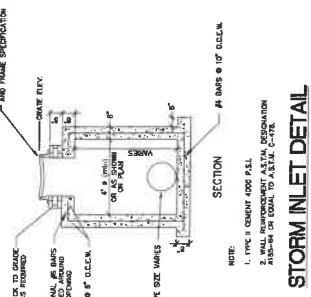
BY: [Redacted]

REVISIONS:

1. 06-20-17: [Redacted]



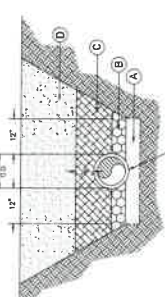
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STORM MANHOLE DETAIL



2' CONC. VALLEY GUTTER DETAIL



CALL 48 HOURS BEFORE YOU DO IT'S THE LAW 800-402-4770

VARIES

DO NOT FOR RAILS

1. IF RAILROAD IS OVER EXPOSED, IT SHALL BE PROTECTED BY A 12 INCH CONCRETE CURB OR WALL. THE CURB OR WALL SHALL BE SET AT LEAST 10 INCHES FROM THE RAILROAD TRACKS. THE CURB OR WALL SHALL BE SET AT LEAST 10 INCHES FROM THE RAILROAD TRACKS. THE CURB OR WALL SHALL BE SET AT LEAST 10 INCHES FROM THE RAILROAD TRACKS.

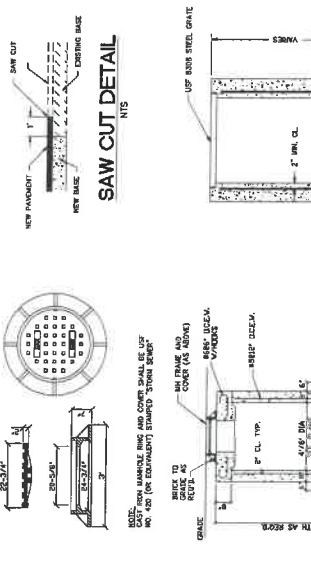
2. ALL OTHER RAILROADS, EXCEPT RAILROADS, SHALL BE PROTECTED BY A 12 INCH CONCRETE CURB OR WALL. THE CURB OR WALL SHALL BE SET AT LEAST 10 INCHES FROM THE RAILROAD TRACKS. THE CURB OR WALL SHALL BE SET AT LEAST 10 INCHES FROM THE RAILROAD TRACKS.

3. ALL OTHER RAILROADS, EXCEPT RAILROADS, SHALL BE PROTECTED BY A 12 INCH CONCRETE CURB OR WALL. THE CURB OR WALL SHALL BE SET AT LEAST 10 INCHES FROM THE RAILROAD TRACKS. THE CURB OR WALL SHALL BE SET AT LEAST 10 INCHES FROM THE RAILROAD TRACKS.

4. ALL OTHER RAILROADS, EXCEPT RAILROADS, SHALL BE PROTECTED BY A 12 INCH CONCRETE CURB OR WALL. THE CURB OR WALL SHALL BE SET AT LEAST 10 INCHES FROM THE RAILROAD TRACKS. THE CURB OR WALL SHALL BE SET AT LEAST 10 INCHES FROM THE RAILROAD TRACKS.



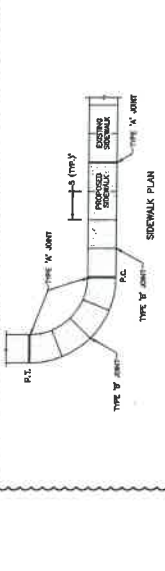
Kimley-Horn & Associates, Inc.
445 24TH STREET, SUITE 300, WEST PALM BEACH, FL 33411
TEL: 561-833-1100 FAX: 561-833-1101
WWW.KIMLEY-HORN.COM



TYPE 'E' INLET DETAIL



TYPICAL SIDE LOT SWALE SECTION

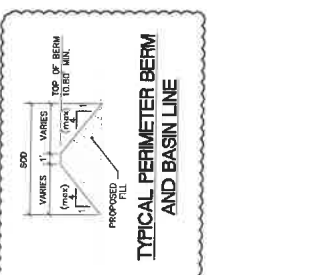


JOINT TYPE	LOCATION	JOINT WIDTH	JOINT DEPTH	JOINT SPACING
1	AT CURB	1/2"	2"	10'
2	AT CURB	1/2"	2"	10'
3	AT CURB	1/2"	2"	10'
4	AT CURB	1/2"	2"	10'
5	AT CURB	1/2"	2"	10'

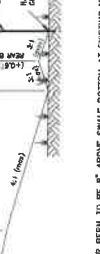
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4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB



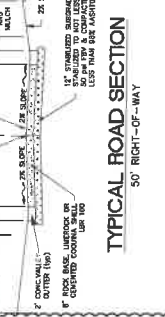
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TYPICAL REAR LOT GRADING AND SWALE SECTION



TYPICAL ROAD SECTION

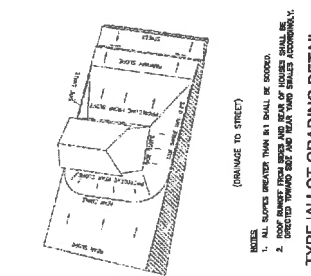


JOINT TYPE	LOCATION	JOINT WIDTH	JOINT DEPTH	JOINT SPACING
1	AT CURB	1/2"	2"	10'
2	AT CURB	1/2"	2"	10'
3	AT CURB	1/2"	2"	10'
4	AT CURB	1/2"	2"	10'
5	AT CURB	1/2"	2"	10'

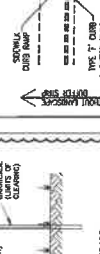
THICKNESS	LOCATION	THICKNESS	LOCATION
4"	AT CURB	4"	AT CURB
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4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB



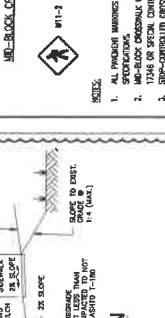
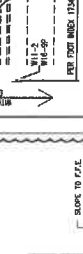
Kimley-Horn & Associates, Inc.
445 24TH STREET, SUITE 300, WEST PALM BEACH, FL 33411
TEL: 561-833-1100 FAX: 561-833-1101
WWW.KIMLEY-HORN.COM



TYPICAL REAR LOT GRADING AND SWALE SECTION



TYPICAL ROAD SECTION

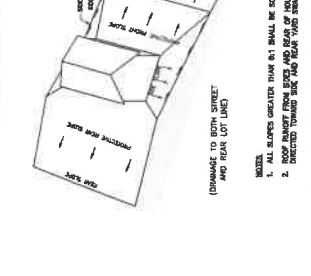


JOINT TYPE	LOCATION	JOINT WIDTH	JOINT DEPTH	JOINT SPACING
1	AT CURB	1/2"	2"	10'
2	AT CURB	1/2"	2"	10'
3	AT CURB	1/2"	2"	10'
4	AT CURB	1/2"	2"	10'
5	AT CURB	1/2"	2"	10'

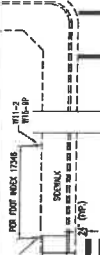
THICKNESS	LOCATION	THICKNESS	LOCATION
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB



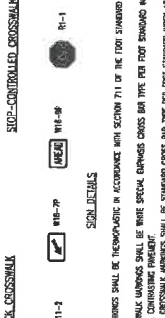
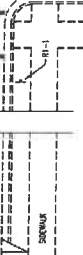
Kimley-Horn & Associates, Inc.
445 24TH STREET, SUITE 300, WEST PALM BEACH, FL 33411
TEL: 561-833-1100 FAX: 561-833-1101
WWW.KIMLEY-HORN.COM



TYPICAL REAR LOT GRADING AND SWALE SECTION

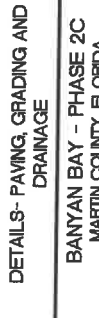


TYPICAL ROAD SECTION



JOINT TYPE	LOCATION	JOINT WIDTH	JOINT DEPTH	JOINT SPACING
1	AT CURB	1/2"	2"	10'
2	AT CURB	1/2"	2"	10'
3	AT CURB	1/2"	2"	10'
4	AT CURB	1/2"	2"	10'
5	AT CURB	1/2"	2"	10'

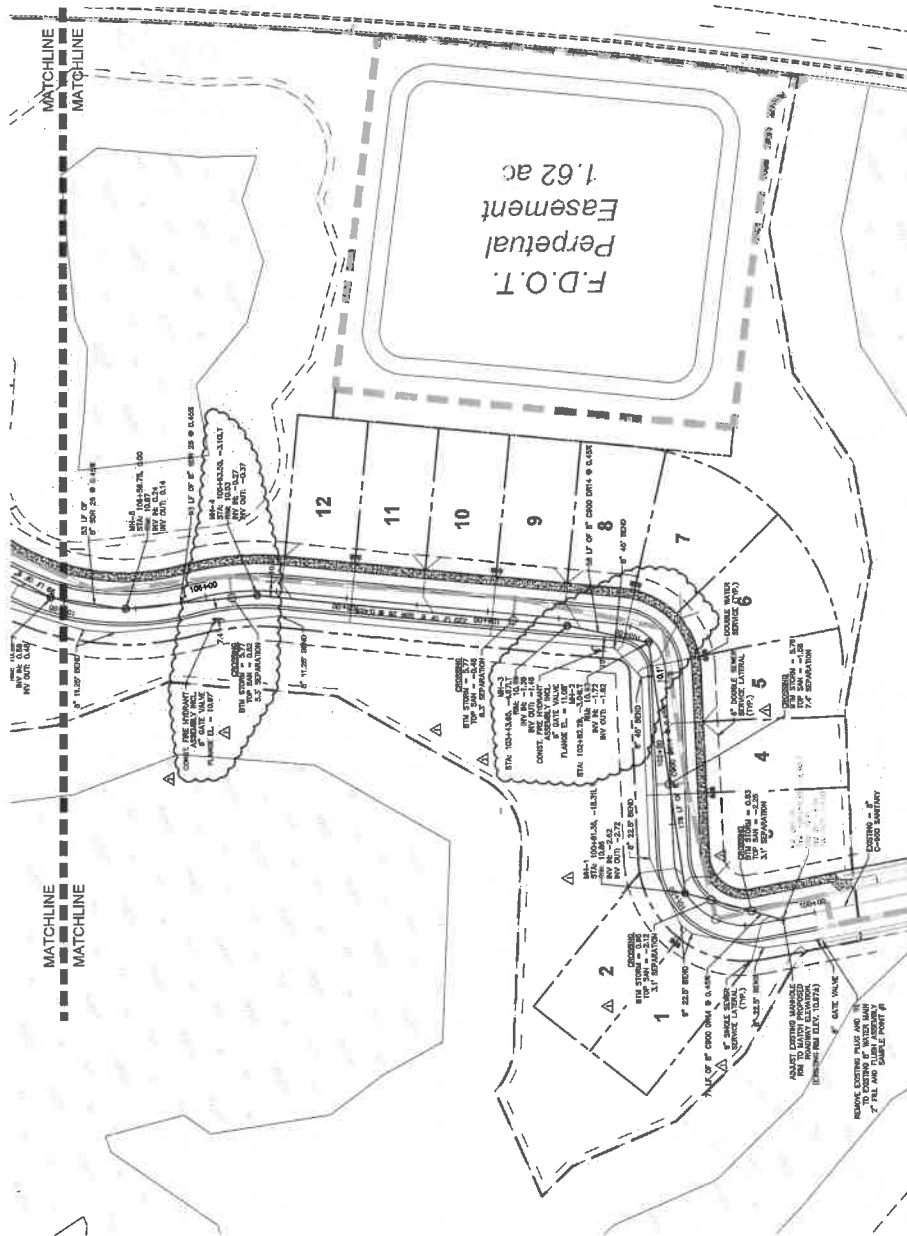
THICKNESS	LOCATION	THICKNESS	LOCATION
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB
4"	AT CURB	4"	AT CURB



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LEGEND

- | | |
|---|---|
|  | SINGLE WATER SERVICE |
|  | DOUBLE WATER SERVICE |
|  | FIRE HYDRANT |
|  | FLUSHING HYDRANT |
|  | SAMPLE POINT |
|  | GATE VALVE |
|  | 6" SANITARY LATERAL
AT 1.0% SLOPE Min. |



SANITARY SERVER STRUCTURE TABLE			
NO.	STATISTICS	INVERT IN	INVERT OUT
00-01	100-01-01-01	100-01-01-01	100-01-01-01
00-02	100-02-01-01	100-02-01-01	100-02-01-01
00-03	100-03-01-01	100-03-01-01	100-03-01-01
00-04	100-04-01-01	100-04-01-01	100-04-01-01
00-05	100-05-01-01	100-05-01-01	100-05-01-01
00-06	100-06-01-01	100-06-01-01	100-06-01-01
00-07	100-07-01-01	100-07-01-01	100-07-01-01
00-08	100-08-01-01	100-08-01-01	100-08-01-01
00-09	100-09-01-01	100-09-01-01	100-09-01-01
00-10	100-10-01-01	100-10-01-01	100-10-01-01
00-11	100-11-01-01	100-11-01-01	100-11-01-01
00-12	100-12-01-01	100-12-01-01	100-12-01-01
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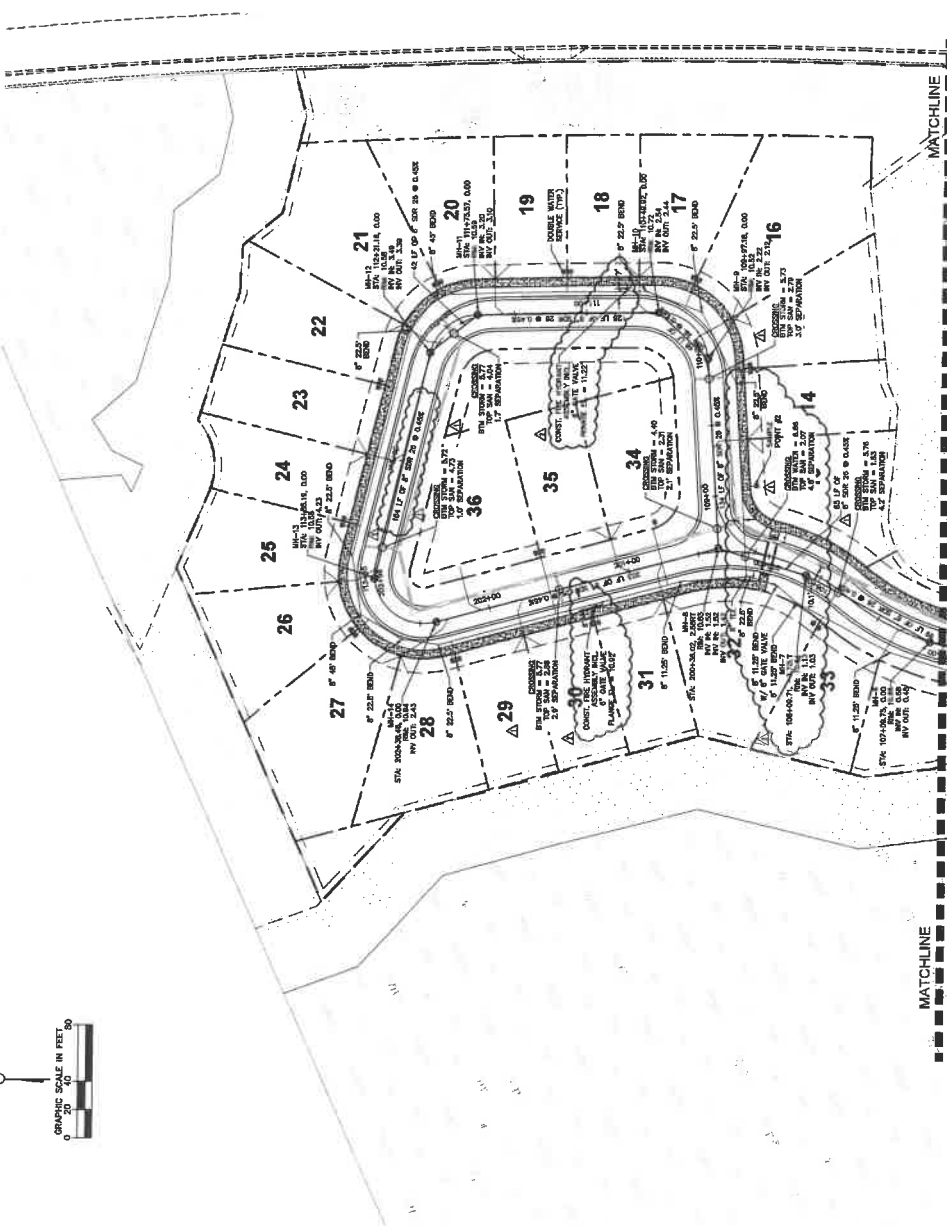
UTILITY PLANS-A

BANYAN BAY - PHASE 2C
MARTIN COUNTY, FLORIDA

Kimley»»Horn

DATE	JUNE 2017	FIG. & DRAWING NO.	DA1052003	SHEET	10 OF 17
Kimley»Horn 445 24TH STREET, SUITE 200, VERO BEACH, FL 32960 PHONE (772) 794-4100 FAX (772) 794-4150 ©2017 KIMLEY-HORN ASSOC., INC. CA 00000696					
SCALE AS SHOWN	DESIGNED BY SDS	DRAWN BY SDS	CHECKED BY PVR	FIG. 11, UTILITY PLANS	

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- LEGEND**
- SINGLE WATER SERVICE
 - DOUBLE WATER SERVICE
 - FIRE HYDRANT
 - FLUSHING HYDRANT
 - SAMPLE POINT
 - GATE VALVE
 - 6" SANITARY LATERAL AT 1.0% SLOPE MIN.

△

SANITARY SEWER STRUCTURE TABLE			
NO.	STATION/INVERT	INVERT IN	INVERT OUT
14	105+48.12 (1.817)	18.1	18.4 (0.1)
15	105+48.12 (1.817)	18.1	18.4 (0.1)
16	105+48.12 (1.817)	18.1	18.4 (0.1)
17	105+48.12 (1.817)	18.1	18.4 (0.1)
18	105+48.12 (1.817)	18.1	18.4 (0.1)
19	105+48.12 (1.817)	18.1	18.4 (0.1)
20	105+48.12 (1.817)	18.1	18.4 (0.1)
21	105+48.12 (1.817)	18.1	18.4 (0.1)
22	105+48.12 (1.817)	18.1	18.4 (0.1)
23	105+48.12 (1.817)	18.1	18.4 (0.1)
24	105+48.12 (1.817)	18.1	18.4 (0.1)
25	105+48.12 (1.817)	18.1	18.4 (0.1)
26	105+48.12 (1.817)	18.1	18.4 (0.1)
27	105+48.12 (1.817)	18.1	18.4 (0.1)
28	105+48.12 (1.817)	18.1	18.4 (0.1)
29	105+48.12 (1.817)	18.1	18.4 (0.1)
30	105+48.12 (1.817)	18.1	18.4 (0.1)
31	105+48.12 (1.817)	18.1	18.4 (0.1)
32	105+48.12 (1.817)	18.1	18.4 (0.1)
33	105+48.12 (1.817)	18.1	18.4 (0.1)
34	105+48.12 (1.817)	18.1	18.4 (0.1)
35	105+48.12 (1.817)	18.1	18.4 (0.1)
36	105+48.12 (1.817)	18.1	18.4 (0.1)

UTILITY PLANS - B

BANYAN BAY - PHASE 2C
MARTIN COUNTY, FLORIDA

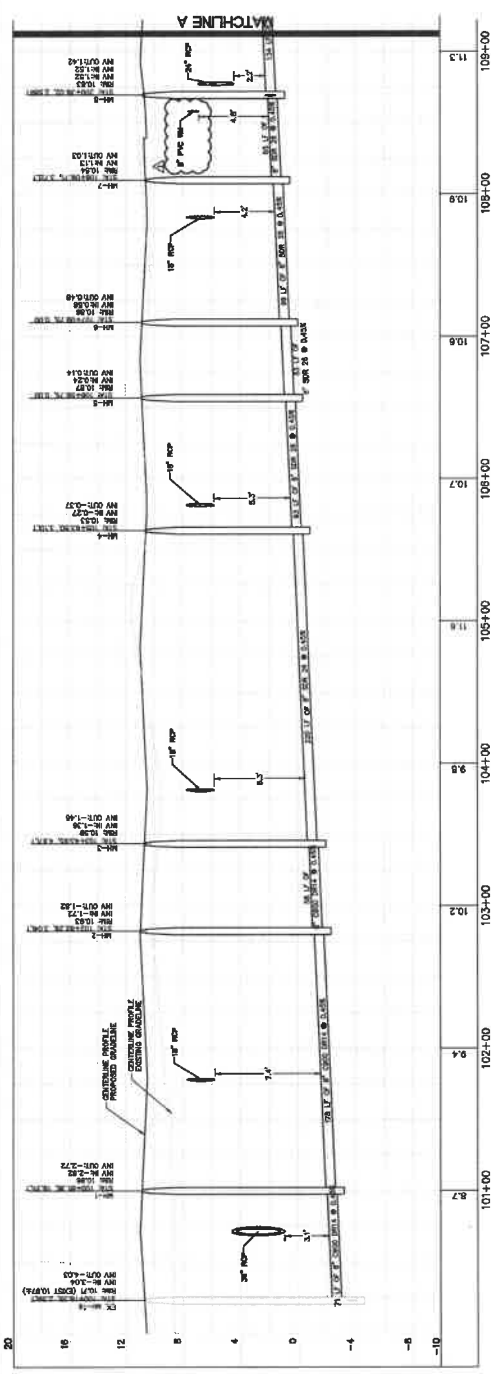
Kimley-Horn

DATE: JUNE 2017
PROJECT: BANYAN BAY - PHASE 2C
SHEET: 11 OF 17

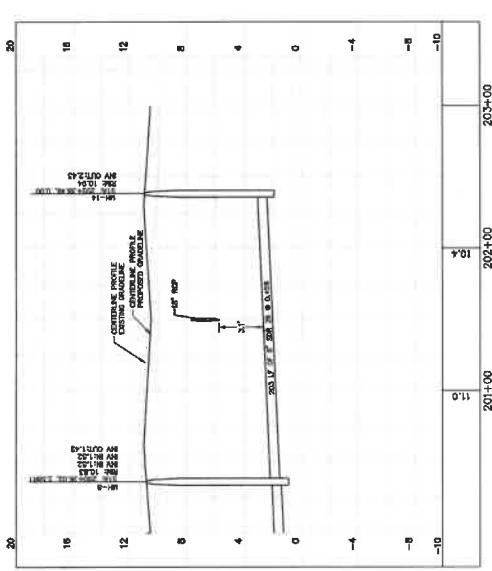
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4	PER COUNTY COMMENTS	10-05-05	ST	ST
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9	PER COUNTY COMMENTS	10-05-05	ST	ST
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33	PER COUNTY COMMENTS	10-05-05	ST	ST
34	PER COUNTY COMMENTS	10-05-05	ST	ST
35	PER COUNTY COMMENTS	10-05-05	ST	ST
36	PER COUNTY COMMENTS	10-05-05	ST	ST

The Engineer, together with the complete and design professional, is not responsible for the design of any structure shown on this drawing, without written approval of the appropriate authority.

△



STA 100+00 TO 109+00
SCALE: 1"=40' HORIZONTAL
1"=4' VERTICAL



STA 109+00 TO 114+00
SCALE: 1"=40' HORIZONTAL
1"=4' VERTICAL

STA 200+00 TO 203+00
SCALE: 1"=40' HORIZONTAL
1"=4' VERTICAL

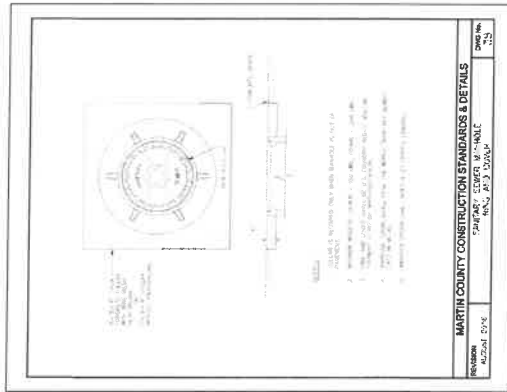
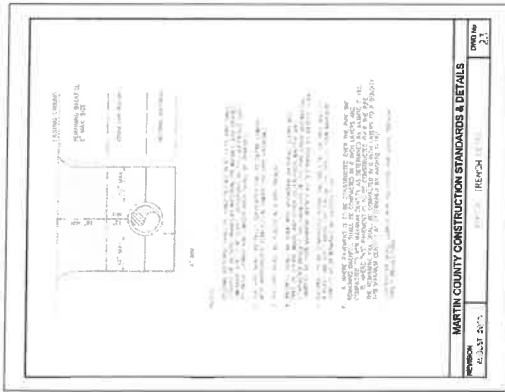
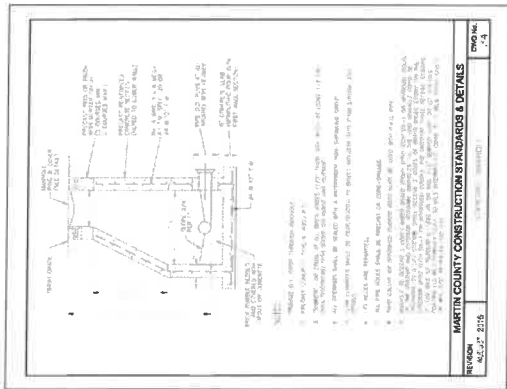
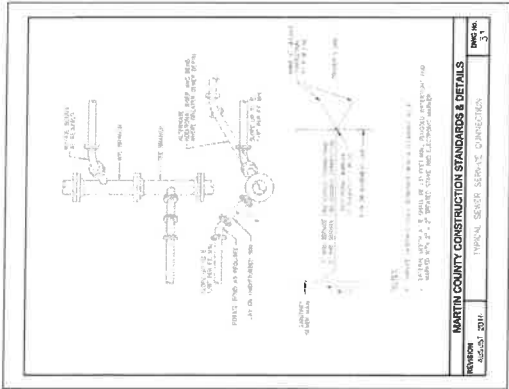
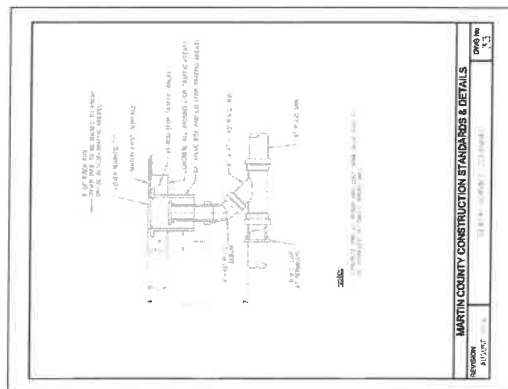
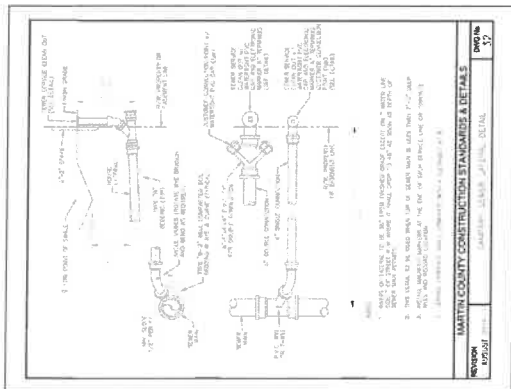
SEWER PROFILES

DATE: JUNE 2017 FILE: 2-DRAWING-10 SHEET: 041032000	
BANYAN BAY - PHASE 2C MARTIN COUNTY, FLORIDA	
Kimley»Horn	
440 S.W. 11th STREET, SUITE 200, WEST PALM BEACH, FL 33411 (561) 841-1111 WWW.KIMLEY-HORN.COM	
SCALE: AS SHOWN HORIZONTAL: 1"=40' VERTICAL: 1"=4'	DESIGNED BY: JES CHECKED BY: JES DATE: 06/01/17
PROJECT: BANYAN BAY - PHASE 2C SHEET: 041032000	DATE: 06/01/17

PROFESSIONAL ENGINEER
FLORIDA
BLAKE BRIDGES, P.E.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR PERMITS	06/01/17	JES

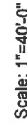
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DETAILS- WATER AND SANITARY
BANYAN BAY - PHASE 2C
MARTIN COUNTY, FLORIDA

[illegible]

DATE	JUNE 27 1977	FILE #	13 0 17
FILE #	041052000	SHEET	
Kimley»Horn			
443 34TH STREET, SUITE 300, WOOD BRANCH, TX 78060 PHONE (714) 781-1490 FAX (714) 784-1000 ©1977 KIMLEY-HORN AND ASSOC., INC. C1-0000864 AND SARTARY, INC.			
SCALE AS SHOWN	DESIGNED BY SDS	DRAWN BY SDS	CHECKED BY PWR
FILE 13 DETAILS - W&A			



SCALE

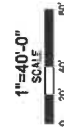
**Banyan Bay PUD
Phase 2C
Landscape Plan
Martin County, Florida**



LA-2



*70 Preserve Credits have been applied to Type 5 Buffer requirements
 **Mitigation Note: (3) 3" tree has been proposed in the Type 5 Buffer to satisfy the 8 Mitigation Credits required for tree removal.
 (See Landscape Plans for details)
 ***located in Preserve Areas



**Banyan Bay PUD
Phase 2C**
Tree Inventory Plan
Martin County, Florida

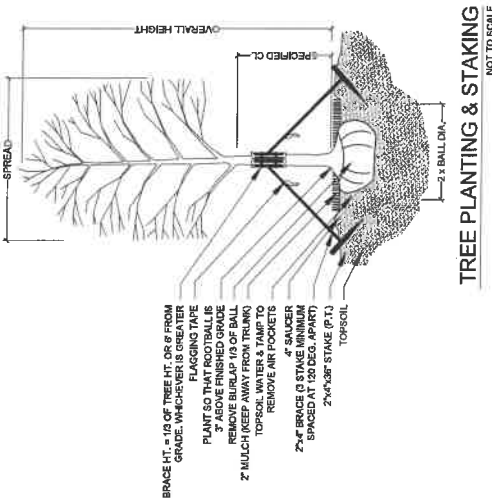


Scale _____
 Drawn by _____
 Checked By _____
 Computer File _____
 Computer Station _____
 Project Number _____
 Date _____

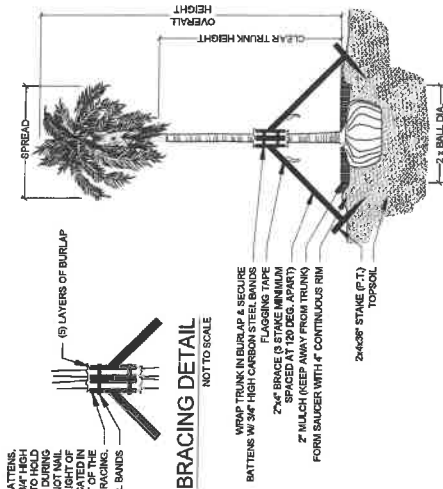
LA-3



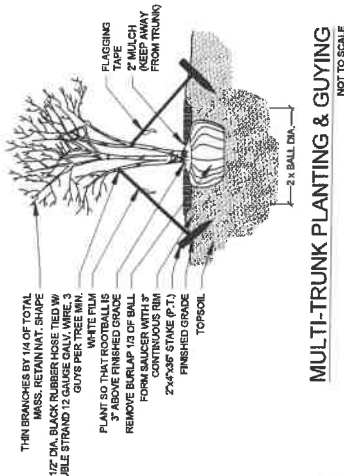
Lucido & Associates
Land Planning / Landscape Architecture
701 E. Duval Blvd., Suite 1000, Jacksonville, FL 32202-1100
Tel: (904) 352-1100 Fax: (904) 352-1000



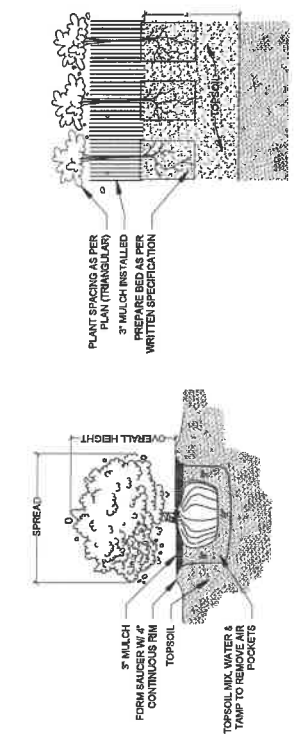
TREE PLANTING & STAKING
NOT TO SCALE



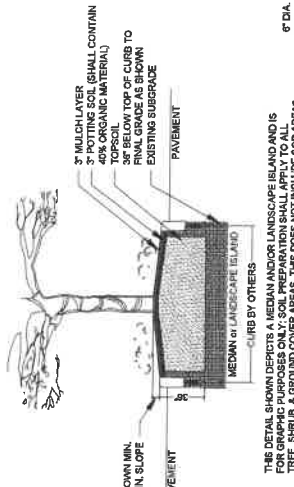
BRACING DETAIL
NOT TO SCALE



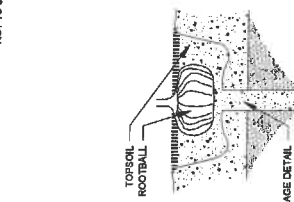
MULTI-TRUNK PLANTING & GUYING
NOT TO SCALE



SHRUB PLANTING
NOT TO SCALE

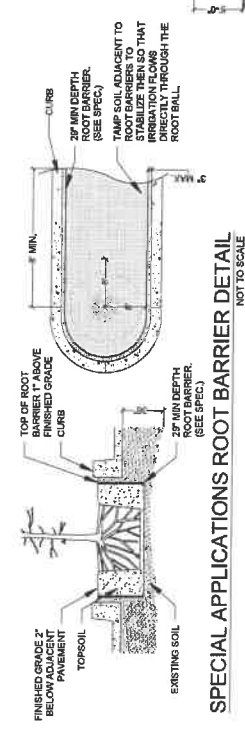


LANDSCAPE AREA PREPARATION DETAIL
NOT TO SCALE

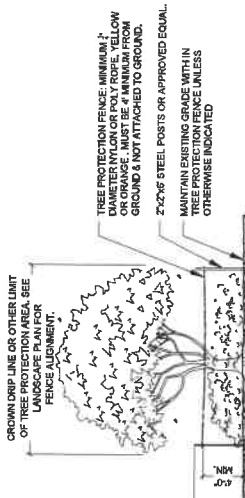


DRAINAGE TESTING DETAIL
NOT TO SCALE

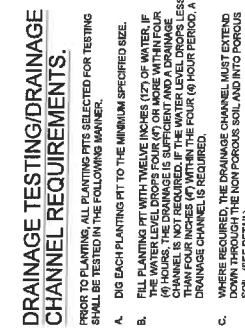
GROUND COVER PLANTING DETAIL
NOT TO SCALE



SPECIAL APPLICATIONS ROOT BARRIER DETAIL
NOT TO SCALE



TREE PROTECTION BARRICADE
NOT TO SCALE



**DRAINAGE TESTING/DRAINAGE
CHANNEL REQUIREMENTS.**
NOT TO SCALE

Banyan Bay PUD
Phase 2C
Detail Sheet
Martin County, Florida

Scale: 1"=4'-0"
Drawn by: PG
Checked by: PG
Computer File: 2C Landscape Plan
Project Number: 16-561
Date: 6.03.17

LA-4

Doug Fitzwater
220 Hibiscus Avenue
Stuart, FL 34996

Mr. Morris Crady
Lucido & Associates
701 SE Ocean Blvd.
Stuart, FL 34994

Notice Development Application
Banyan Bay Revised Master and Phasing Plan 9th PUD Amendment PH2C Final
File Number B082-039

Dear Mr. Crady:

This is to certify that the above referenced sign was installed per Martin County requirements and complies with the standards of the notice provisions of Article 10, Section 10.6: Development Review Procedures.



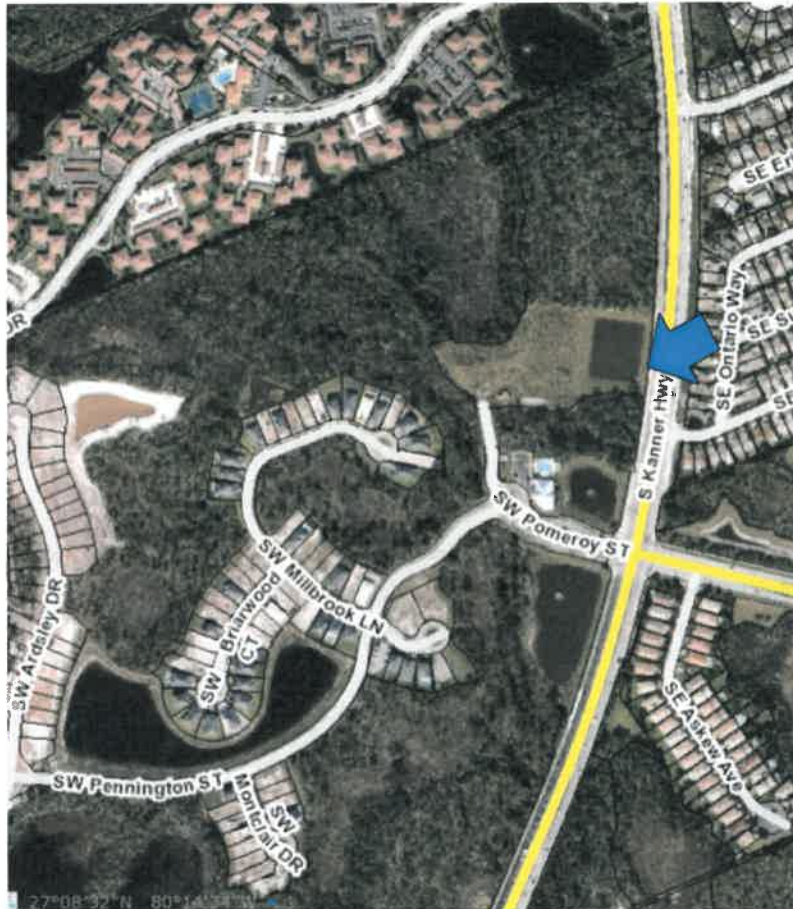
 Doug Fitzwater

State of Florida
County of Martin

Doug Fitzwater, who is personally known to me, acknowledged the forgoing instrument before me on Jan. 20, 2020.



 Notary Public, State of Florida

Sign Location



Sign Photograph

Prepared By:
Martin County Growth Management Department
2401 S.E. Monterey Road
Stuart, FL 34996

[blank space above reserved for recording information]

**BEFORE THE BOARD OF COUNTY COMMISSIONERS
MARTIN COUNTY, FLORIDA
DEVELOPMENT ORDER**

RESOLUTION NUMBER _____

**[REGARDING DENIAL OF THE PHASE 2C FINAL SITE PLAN FOR THE BANYAN BAY
PUD]**

WHEREAS, this Board has made the following determinations of fact:

1. Banyan Bay Macks, LLC, submitted an application for a Phase 2C final site plan approval for the Banyan Bay PUD project, located on lands legally described in Exhibit A, attached hereto.
2. This Board considered such application at a public meeting on September 29, 2020.
3. At the public meeting, all interested parties were given an opportunity to be heard.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MARTIN COUNTY, FLORIDA, THAT:

A. The request for the Phase 2C final site plan approval for the Banyan Bay PUD project is hereby denied, for the following XXXX.

B. This resolution shall be recorded in the public records of Martin County. A copy of this resolution shall be forwarded to the applicant(s) by the Growth Management Department subsequent to recording.

DULY PASSED AND ADOPTED THIS 29th DAY OF JUNE 2020.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
MARTIN COUNTY, FLORIDA

BY: _____
CAROLYN TIMMANN
CLERK OF THE CIRCUIT COURT
AND COMPTROLLER

BY: _____
HAROLD E. JENKINS II, CHAIR

APPROVED AS TO FORM AND LEGAL
SUFFICIENCY:

BY: _____
KRISTA A. STOREY
SENIOR ASSISTANT COUNTY ATTORNEY

ATTACHMENTS:

Exhibit A, Legal Description

BCC MEETING DATE: September 29, 2020
AGENDA ITEM: DPQJ-2

**MARTIN COUNTY, FLORIDA
SUPPLEMENTAL MEMORANDUM**

TO: Honorable Members of the Board of County Commissioners **DATE:** September 22, 2020

VIA: Taryn Kryzda
County Administrator

FROM: Peter Walden, AICP, Principal Planner

REF: 20-1066

**SUBJECT: BANYAN BAY PUD, REQUEST APPROVAL OF THE 9TH PUD
AMENDMENT INCLUDING A REVISED MASTER AND PHASING
PLAN, AND PHASE 2C FINAL SITE PLAN**

The following item is attached:

Ninth Amendment to Banyan Bay Planned Unit Development Zoning Agreement

Reviewed by County Attorney's Office

This document may be reproduced upon request in an alternative format by contacting the County ADA Coordinator (772) 320-3131, the County Administration Office (772) 288-5400, Florida Relay 711, or by completing our accessibility feedback form at www.martin.fl.us/accessibility-feedback.

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NINTH AMENDMENT TO BANYAN BAY
PLANNED UNIT DEVELOPMENT ZONING AGREEMENT

THIS AGREEMENT made and entered into this ____ day of _____, 2020, by and between **BANYAN BAY MACKS, LLC**, a Delaware limited liability company, hereinafter referred to as **OWNER**, and **MARTIN COUNTY**, a political subdivision of the State of Florida, hereinafter referred to as **COUNTY**.

WITNESSETH:

WHEREAS, after appropriate notice, public hearing and approval, Banyan Bay Development Corporation, a Florida corporation, and COUNTY on or about the 9th day of November 2004, entered into a Planned Unit Development Zoning Agreement for the development of a project in Martin County, Florida, known as “Banyan Bay” (“**Project**”), which Planned Unit Development Zoning Agreement (“**Original Agreement**”) is recorded in Official Records Book 1979, beginning at Page 2199 of the Public Records of Martin County, Florida (“**Public Records**”) which has been amended through and including that certain Eighth Amendment to Banyan Bay Planned Unit Development Zoning Agreement, dated November 30, 2018, (“**Eighth Amendment**,” and collectively with the Original Agreement and all amendments thereto being referred to in this Amendment as the “**PUD Agreement**”); and

WHEREAS, OWNER, acquired all right, title and interest to the property subject to the PUD Agreement, as reflected in the Special Warranty Deed between Banyan Bay Venture I,

LLC, Banyan Bay Venture II, LLC and OWNER, as recorded in Official Records Book 2898, Page 2065 of the Public Records; and

WHEREAS, OWNER desires to amend the PUD Agreement for purposes of revising, **Revised Exhibit “D”**, Revised Master Plan, **Exhibit “D-1”**, Revised Phasing Plan, and **Exhibit “E”**, Revised Timetable of Development.

NOW, THEREFORE, the parties do hereby agree as follows:

1. The above recitations are true and correct and incorporated herein by reference.
2. The previously approved Revised Master Site Plan, and the previously approved Revised Phasing Plan, are hereby amended and replaced by **Revised Exhibit “D”**, Revised Master Plan, and **Revised Exhibit “D-1”**, Revised Phasing Plan, which are attached hereto and made a part hereof.
3. The previously approved **Revised Exhibit “D”** and **Revised Exhibit “D-1”** have been amended to reduce the density and change the product type in Phase 2C from 48 duplex units to 36 single family units, thereby reducing the overall units in the Banyan Bay PUD from 305 units to 293 units.
4. The Timetable of Development, originally attached as **Exhibit “E”** is hereby replaced by **Revised Exhibit “E”**, Revised Timetable of Development, and attached hereto and made a part hereof, to reflect the extension of time to obtain final site plan approvals for Phases 2C and 3, based on the extensions exercised by OWNER and its predecessor in interest as to the Project, by notification to the COUNTY pursuant to Section 252.636, Florida Statutes, of the Governor’s various declarations of emergencies.
5. All of the terms and conditions of the PUD Agreement which are not specifically amended or revised by this Amendment shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this PUD Agreement to be made and entered into the day and year first written. The date of this PUD Agreement shall be the date on which this PUD Agreement was approved by the Board of County Commissioners.

***** NO FURTHER TEXT ON THIS PAGE*****

OWNER

WITNESSES:

BANYAN BAY MACKS, LLC,
a Delaware limited liability company

Name: _____

By: _____
Jonathan C. Mayers, Manager

Name: _____

STATE OF _____

COUNTY OF _____

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, by means of ☒ physical presence or ☐ online notarization on _____, 2020, by Jonathan C. Mayers, Manager of Banyan Bay Macks, LLC, a Delaware limited liability company, on behalf of the company, who ☐ is personally known to me or ☐ has proved to me on the basis of a driver's license or other satisfactory evidence consisting of _____, to be the person whose name is subscribed to the foregoing instrument, and acknowledged before me that he executed same.

WITNESS my hand and official seal in the County and State last aforesaid this _____ day of _____, 2020.

(NOTARIAL STAMP)

Notary Public

Print Name: _____

My commission expires: _____

Affix official seal below: _____

COUNTY

ATTEST:

**BOARD OF COUNTY COMMISSIONERS
MARTIN COUNTY, FLORIDA**

Carolyn Timmann
Clerk of the Circuit Court and Comptroller

By: _____
Harold E. Jenkins II, Chairman

**APPROVED AS TO FORM AND
LEGAL SUFFICIENCY:**

(COMMISSION SEAL)

Krista A. Storey
Senior Assistant County Attorney

Pursuant to Sec. 695.26, F.S.
Prepared by:
Robert S. Raynes, Jr., Esquire
Gunster, Yoakley & Stewart, P.A.
800 SE Monterey Commons Blvd., Suite 200
Stuart, Florida 34996

REVISED EXHIBIT D
BANYAN BAY – REVISED MASTER PLAN

REVISED EXHIBIT D-1
BANYAN BAY – REVISED PHASING PLAN

REVISED EXHIBIT E
REVISED TIMETABLE FOR DEVELOPMENT

- A. This development shall be constructed in phases in accordance with this timetable of development and the master site plan and phasing plan.
- B. Construction must commence within one (1) year of each final site plan approval.
- C. All infrastructure improvements for the Banyan Bay development shall be completed by November 17, 2023 (Executive Order 16-230), as set forth below.
- D. Infrastructure improvements for the applicable phase must be substantially completed before issuance of building permits. All required infrastructure improvements identified on the final site plan for the applicable phase, must be completed prior to the issuance of any certificate of occupancy.
- E. The recreation area shown on the master site plan at the project's entrance, including supporting infrastructure improvements, must be permitted with the building permit for the first unit in Phase 1 and completed within twelve (12) months of the issuance of the first certificate of occupancy for a unit in Phase 1.

The phases to be constructed and the time period within which final site plan and plat approval (plat approval is not required for multi-family phases) of each phase must be obtained are as follows:

Final Site Plan and/or Plat Approval (on or before)	Completion (on or before)	Elements of Phases to be constructed
Phase 1	Completed	74 single family lots including 8 model units (Lots 1–8), main project entrance, entrance lakes, recreation area at project's entrance, reduction of temporary stockpile areas and supporting infrastructure (substantially completed pursuant to the Third Amendment to the Commitment to Complete and Maintain the Required Improvements and Infrastructure for Banyan Bay PUD – Phase 1.
Obtained Final Site Plan Approval 09/06/05		
Obtained Revised Final Site Plan Approval 08/25/06		
Obtained Plat Approval 05/20/08		
Obtained Revised Final Site Plan Approval 05/10/16		
		Clearing of native vegetation in accordance with Special Condition 13 of Exhibit F (completed).
		Construct one through lane

		and left and right turn lanes and modify traffic signal at the entrance of the project in accordance with Special Condition 20A of Exhibit F (completed).
Final Site Plan and/or Plat Approval (on or before)	Completion (on or before)	Elements of Phases to be constructed

Final Site Plan and Plat Approval

Phase 1 (cont.)

Phase to be Constructed

Payment of \$100,000.00 to Martin County for new fire station in accordance with Special Condition 7B of Exhibit F (completed).

Payment of \$25,000.00 to Martin County for new community swimming pool in accordance with Special Condition 2 of Exhibit F (completed).

Final Site Plan and/or Plat Approval (on or before)	Completion (on or before)	Elements of Phases to be constructed
Phase 2A Completed	August 14, 2027	111 single family lots and supporting infrastructure. Design traffic signal at Willoughby Boulevard and Market Place and donate \$30,000.00 towards signal in accordance with Special Condition 20B of Exhibit F (completed). Extend water and force mains along Kanner Highway to the southernmost property boundary

in accordance with Special Condition 23B of Exhibit F.

Install Phase 3 landscape buffer – except for the entrance drive and line of sight, existing vegetation along SR 76 will be retained and supplemented as necessary to provide a 100% opaque screen a minimum of six feet in height.

Final Site Plan and/or Plat Approval (on or before)	Completion (on or before)	Elements of Phases to be constructed
Phase 2B Completed	August 14, 2027	Waterfront recreation area including gazebo, boat ramp, slips (maximum 6 wet slips), parking and supporting infrastructure.
Final Site Plan and/or Plat Approval (on or before)	Completion (on or before)	Elements of Phases to be constructed
Phase 2C June 5, 2028	June 4, 2030	24 duplex buildings for a total of 48 units and supporting infrastructure including native landscape buffer along SR 76 and FDOT Pond; and two (2.00) acres of pervious pavers or an equivalent water quality treatment volume; or an updated drainage basin analysis showing Martin County's water quality requirements have been met for Basin "A".
Final Site Plan and/or Plat Approval (on or before)	Completion (on or before)	Elements of Phases to be constructed
Phase 3 June 5, 2028	June 4, 2030	72 multi-family units, recreation area and supporting infrastructure, and landscape buffer along SR 76 to be installed with Phase 2A infrastructure.

Note: The following is provided as a non-binding timetable for vertical construction of the single-family units within Banyan Bay for purposes of ARDP:

62 units 2017

62 units 2018

62 units 2019

47 units 2020

DPQJ-2

Peter W. Walden
Principal Planner
Martin County Growth Management Department
pwalden@martin.fl.us Office 772-219-4923
2401 SE Monterey Road Stuart, FL 34996

Experience

COUNTY
EXHIBIT # 2

Public Sector Work History

Principal Planner, AICP Martin County, FL

2018- present

- Project Coordinator- development application and land development regulation review
- Project Coordinator for all County projects for development review.
- Manage and process all zoning variances.
- Provide assistance with building permitting and zoning inquiries.
- Draft Land Development Regulation amendments.

Senior Planner, Martin County, FL.

2015- 2018

- **Development Review:** Project coordinator for development and zoning applications.
- Provide review of development applications for consistency with the Comprehensive Growth Management Plan and the Land Development Regulations.

Development Compliance Planner, City of Palm Beach Gardens, Palm Beach Gardens, FL.

2014- 2015

- **Development Review:** Review development and permit applications for compliance with land development code. Monitor development construction for compliance with development orders and environmental compliance. Provide related documents; draft time extensions, build out determinations, administrative amendments.

Zoning Compliance, Village of North Palm Beach, NPB, FL.

2012- 2014

- **Plan Review:** Member of the DRC, participate in all development review, focus on zoning regulations and land development policy and compliance. Review building permits for code compliance. Prepare and present projects to the Planning Commission, and maintain all corresponding files.

Private Sector Work History

- Over 20 years' experience in community development and home construction including landscape design and construction, infrastructure development and vertical construction.

Education & Certifications

Florida Atlantic University, Boca Raton, FL

B.P.M. Bachelor of Public Management (Administration), minor in Geography, Magna Cum Laude

Course work in; Urban Planning, GIS, Emergency Management, Program Evaluation, Transportation

Indian River State College, Stuart, FL

A.A, Environmental Science, Magna Cum Laude

Government Internship, Town of Jupiter, FL. 2011 Planning and Zoning, Business Development

Member of the American Institute of Certified Planners, AICP

FILED FOR RECORD
COMMISSION RECORDS
MARTIN COUNTY, FL
Date 9/29/2020
CAROLYN TIMMANN
CLERK OF CIRCUIT COURT
By MLV D.C.

