DEVELOPER:

## RIVERLAND ASSOCIATES IV, LLLP

1600 SAWGRASS CORPORATE PARKWAY, SUITE 400 SUNRISE, FLORIDA 33323 (954) 753–1730

# PAVING, GRADING AND DRAINAGE IMPROVEMENTS

FOR

# RIVERLAND - PARCEL D PLAT ONE CITY OF PORT ST. LUCIE, ST. LUCIE COUNTY, FLORIDA



LOCATION MAP N.T.S. SEC. 20 TWP. 37 S RGE. 39 E

PREPARED BY:

GLH ENGINEERING, LLC 1600 SAWGRASS CORPORATE PARKWAY, SUITE 400 SUNRISE, FLORIDA 33323 PHONE: (954) 753-1730 FL CERTIFICATE OF AUTHORIZATION NO. 27459

## INDEX OF SHEETS

<u>Sheet No.</u>	DESCRIPTION
1	COVER SHEET
2-16	PAVING, GRADING AND DRAINAGE PLANS
17-20	PAVING, GRADING AND DRAINAGE DETAILS
21	MASTER DRAINAGE PLAN



# NOTE: ALL GRADES SHOWN ARE IN NAVD88

P22-





STR # TYPE GRATE RIM EL. INV EL. WITH CATCH ALL OUT ORM MAIN WITH CATCH BASIN	CORRUGATED PLASTIC PIPE       CPP         DRAINAGE EASEMENT       D.E.         DRAINAGE SWALE EASEMENT       D.S.E.         HIGH POINT       HP         HIGH POINT       HP         LANDSCAPE EASEMENT       L.E.         LAKE MAINTENANCE POLYPROPYLENE       HPPP         LANDSCAPE EASEMENT       L.M.E.         LAKE MAINTENANCE ACCESS EASEMENT       L.M.E.         LAKE MAINTENANCE EASEMENT       L.M.E.         CITY OF PORT ST. LUCIE UTILITY EASEMENT       P.S.LUEL         OPEN SPACE       O.S.         REINFORCED CONCRETE PIPE       RCP         UTILITY EASEMENT       UE.         UTILITY EASEMENT       UE.         VALLEY GUTTER INLET       VGI         YARD DRAIN       YD         PAVEMENT       SIDEWALK         DETECTABLE WARNING SURFACE (SEE NOTE)       SUSSESS         LITTORAL PLANTING AREA       SUSSESS         SECTION CALLOUT       SUSSESS	PAVING, GRADING AND DRAINAGE PLAN FOR RIVERLAND-PARCELD
STRIPING KEY         NOTI 1.           (A) = 6" SOLID WHITE         1.           (B) = 8" SOLID WHITE         2.           (D) = 12" SOLID WHITE         3.           (E) = 24" SOLID WHITE         3.           (E) = 6" SKIP WHITE TYP. (6"-10")         4.           (D) = 18" SOLID YELLOW         4.           (D) = 18" SOLID YELLOW         5.           (E) = 6" DOUBLE YELLOW         5.           (E) = 6" DOUBLE YELLOW         5.	ESI MINIMUM FINISH FLOOR ELEVATION FOR ANY STRUCTURE SHALL BE ELEVATION 30.50' NAVD88, WHICH IS ABOVE THE 100-YEAR, 3-DAY STORM STAGE ELEVATION 29.50' NAVD88, WHICH IS ABOVE THE 25-YEAR, 3-DAY STORM STAGE ELEVATION. MINIMUM ROAD CROWN ELEVATION SHALL BE ELEVATION 26.0' NAVD88, WHICH IS ABOVE THE 10-YEAR, 1-DAY STORM STAGE ELEVATION. ALL ELEVATIONS SHOWN ON THESE PLANS ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) 10 CONVERT ELEVATION TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), ADD 1.475 FEET TO THE NAVD88 ELEVATION. FOR EXAMPLE, NAVD88 + 1.475' . NGVD29. DETECTABLE WARNING SURFACES SHALL COMPLY WITH THE REQUIREMENTS OF F.D.O.T. DESIGN STANDARDS INDEX 304 AND F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 527 (CURRENT EDITIONS). AS AN ALTERNATE TO ADVANCED DRAINAGE SYSTEMS, INC. HPPP DRAINAGE, RCP STORM PIPE MAY BE SUBSTITUTED WITH WRITTEN APPROVAL, FROM THE CITY OF PORT ST. LUCIE AND GLH ENGINEERING, LLC. THE PROPERTY OWNER, CONTRACTOR, AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL, AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FORM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE WITH CITY CODE, SECTION 41.08 (G). A SITE ENVIRONMENTAL ASSESSMENT PERFORMED BY EW CONSULTANTS, INC. FOR RIVERLAND PARCEL D WAS PERFORMED ON APRIL 18, 2022.	<b>CALE:</b> 1. BARKWAY, SUITE 400 DESTONED E

SUNRISE, FLORIDA 33323 PHONE: (954) 753-1730

ONE

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=40' 7/22 BY: AQC CHECKED BY:BA FILE NAME: RIV-D PL 1 PD

BRIAN ARNOLD, P.E. FLORIDA P.E. #81294 NOTE: ALL GRADES SHOWN ARE IN NAVD88 RIV-D PL 1 PD SHEET 3 OF 21

P22-

KEY MAP N.T.S.

SHEET 13



## <u>STRIPING KEY</u>

0 8 20 40

SCALE: 1" = 40'

120

(A)- 6" SOLID WHITE
B- 8" SOLID WHITE
C 12" SOLID WHITE
D- 18" SOLID WHITE
E 24" SOLID WHITE
(G)- 6" SKIP WHITE TYP. (6'-10')
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- (J)— 18" SOLID YELLOW
- (K)— 6" DOUBLE YELLOW

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# STORM MAIN WITH O BASIN AND CALL OU

EXISTING STORM M SANITARY SEWER

WATER MAIN WITH

PROPOSED ELEVAT ELEVATION BY OTH

EXISTING ELEVATION

DIRECTION OF FLO STREET LIGHT

STREET LIGHT 35' STREET LIGHT 20'

STOP SIGN (R1-1 w LOT NUMBER

FINISHED FLOOR EL CONTROL WATER E CORRUGATED ALUM

DITCH BOTTOM INLE CURB & GUTTER INL

STR # TYPE GRATE RIM EL. INV EL. CATCH UT MAIN WITH CATCH BASIN MAIN WITH MANHOLE VALVE ION HERS ON W CONCRETE POLE BLACK FIBERGLASS POLE / D-3) LEVATION LEVATION MINUM PIPE ET LET	LEGEND	CORRUGA TED PLASTIC PIPECPPDRAINAGE EASEMENTD.E.DRAINAGE SWALE EASEMENTD.S.E.HIGH POINTHPHIGH PERFORMANCE POLYPROPYLENEHPPPLANDSCAPE EASEMENTL.E.LAKE MAINTENANCE ACCESS EASEMENTL.M.A.E.LAKE MAINTENANCE EASEMENTL.M.E.CITY OF PORT ST. LUCIE UTILITY EASEMENTP.S.L.UE.OPEN SPACEO.S.REINFORCED CONCRETE PIPERCPUTILITY EASEMENTU.E.VALLEY GUTTER INLETVGIYARD DRAINYDPAVEMENTSIDEWALKDETECTABLE WARNING SURFACE (SEE NOTE)SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS		FAVING, GRADING AND DRAINAGE FLAN FOR			PLAT ONE
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+ SIGN W11-2	, ₩			ERING, LLC	S CORPORATE	RIDA 33323	r53-1r30
PΡ		SHEET 15 SHEET 15 SHEET 77 SHEET 10 SHEET 14 SHEET 6 SHEET 11		GLH ENGINE	1600 SAWGRAS	SUNRISE, FLO	PHONE: (954)
		SHEET 12 SHEET 12 SHEET 12 SHEET 13	SC DA DE CH FI F	CALE ATE: ESIG HECK ILE N RIV-	E: 1' 8/ NED (ED NAM -D F	'=40 17/2 BY:B BY:B E: PL 1	, 22 AQC BA PD
		KEY MAP N.T.S.	L	BRIA FLORI	n arn Ida p.I	OLD, P. E. #812	E. 94
<u>NC</u>	<u>)TE: ALL GRA</u>	DES SHOWN ARE IN NAVD88 P22-	<u>3</u> R:	IV-C Shee	) PL et 4	0F	PD 21







#### <u>STRIPING KEY</u>

- (A)— 6" SOLID WHITE
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- $\bigcirc$  12" SOLID WHITE
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SANITARY SEWER I

WATER MAIN WITH

PROPOSED ELEVAT

EXISTING ELEVATI

STREET LIGHT STREET LIGHT 35'

STREET LIGHT 20' STOP SIGN (R1-1 w. LOT NUMBER

FINISHED FLOOR EN CONTROL WATER E CORRUGATED ALUM

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					DATE BY CK
30.5					REVISIONS
Aug 24+00 HUG HUG HUG HUG HUG HUG HUG HUG	SHEET 15 SHEET 14 SHEET 14		GLH ENGINEERING, LLC	1600 SAWGRASS CORPORATE PARKWAY, SUITE 400 SUNRISE, FLORIDA 33323	PHONE: (954) 753-1730
	SHEET 5 SHEET 4 SHEET 3 SHEET 12 SHEET 12 SHEET 12 SHEET 13		SCALE DATE: DESIG CHECH FILE N RIV-	E: 1"=4 8/17/ NED BY (ED BY: NAME: -D PL 1	D' 22 : AQC BA PD
<u>NOTE: ALL GRA</u>	KEY MAP N.T.S. DES SHOWN ARE IN N P22-	VAVD88	bria flori RIV-[ SHEE	n arnold, ida p.e. #81 ) PL 1 ET 5 OF	P.E. 1294 PD 21



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CATCH _	STR # TYPE GRATE RIM EL. INV EL.		LEGEN
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MAIN WITH MA	NHOLE		
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ON		1 <sup>22</sup> .	
W		× ·	
CONCRETE PO BLACK FIBERG / D-3)	LE LASS POLE		
		20.00 C W ELEV	
INUM PIPE		CAP	
LET		DBI CGI	

CORRUGATED PLASTIC PIPE	CPP
DRAINAGE EASEMENT	D.E.
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Ч DRAINAGE AND GRADING

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STORM MAIN WITH CATCH BASIN AND CALL OUT
EXISTING STORM MAIN WITH CATCH BASIN — — –
SANITARY SEWER MAIN WITH MANHOLE
WATER MAIN WITH VALVE — — — — — —
PROPOSED ELEVATION
ELEVATION BY OTHERS
EXISTING ELEVATION
DIRECTION OF FLOW
STREET LIGHT       ⊷         STREET LIGHT 35' CONCRETE POLE       ⊷         STREET LIGHT 20' BLACK FIBERGLASS POLE       ●         STOP SIGN (R1-1 w/ D-3)       ⊷
LOT NUMBER
FINISHED FLOOR ELEVATION
CONTROL WATER ELEVATION C.W. ELEV.
CORRUGATED ALUMINUM PIPE CAP
DITCH BOTTOM INLET DBI CURB & GUTTER INLET CGI

CORRUGATED PLASTIC PIPE	CPP
DRAINAGE EASEMENT	D.E.
DRAINAGE SWALE EASEMENT	D.S.E.
HIGH POINT	HP
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OPEN SPACE	0.S.
REINFORCED CONCRETE PIPE	RCP
UTILITY EASEMENT	U.E.
UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)	U.ER.A.
VALLEY GUTTER INLET	VGI
YARD DRAIN	YD
PAVEMENT	
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SHEET 7 OF 21

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(37)

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STREET LIGHT STREET LIGHT 35' CO STREET LIGHT 20' B STOP SIGN (R1-1 w/ LOT NUMBER FINISHED FLOOR ELE

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STR # TYPE GRATE RIM EL. INV EL. LEGEND LEGEND LEGEND LEGEND LALVE ALVE ALVE CN 20.00 RS CO.00 N 20.00 N 20.00 N CONCRETE POLE LACK FIBERGLASS POLE D-3) 1 EVATION EVATION C.W. ELEV. NUM PIPE CAP T DBI ET CGI	CORRUGATED PLASTIC PIPECPPDRAINAGE EASEMENTD.E.DRAINAGE SWALE EASEMENTD.S.E.HIGH POINTHPHIGH POINTHPHIGH PERFORMANCE POLYPROPYLENEHPPPLANDSCAPE EASEMENTL.E.LAKE MAINTENANCE ACCESS EASEMENTL.M.A.E.LAKE MAINTENANCE EASEMENTL.M.E.CITY OF PORT ST. LUCIE UTILITY EASEMENTP.S.L.U.E.OPEN SPACEO.S.REINFORCED CONCRETE PIPERCPUTILITY EASEMENTU.E.VALLEY GUTTER INLETVGIYARD DRAINYDPAVEMENTSIDEWALKDETECTABLE WARNING SURFACE (SEE NOTE)SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	PAVING, GRADING AND DRAINAGE PLAN	RIVERLAND-PARCEL D	PLAT ONE
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	SHEET 12 SHEET 12 SHEET 13 SHEET 13	DATE DESIC CHEC FILE RIV	: 8/17, GNED B KED BY NAME: -D PL	/22 Y: AQC :BA 1 PD
	KEY MAP N.T.S.	BRI/ FLOF	AN ARNOLD RIDA P.E. #8	, P.E. 31294
<u>NOIE: ALL GRA</u>	DES SHOWN ARE IN NAVD88 P22-	RIV-	DPL1 et80	PD F 21



STR # TYPE GRATE RIM EL. INV EL. UT	
IAIN WITH CATCH BASIN	
MAIN WITH MANHOLE	
VALVE	— <u> </u>
ION	20.00
HERS	20.00
ON	. <sup>1</sup> 2 <sup>3</sup> . <sup>3</sup>
W	^ ~~
CONCRETE POLE BLACK FIBERGLASS POLE / D-3)	
LEVATION ELEVATION MINUM PIPE LET LET	(1) (20.00) C.W. ELEV. CAP DBI CGI

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UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)	U.ER.A.
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YARD DRAIN	YD
PAVEMENT	
SIDEWALK	4
DETECTABLE WARNING SURFACE (SEE NOTE)	
LITTORAL PLANTING AREA SECTION CALLOUT	• • • • • • • • • • • • • • • • • •

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- 8. A SITE ENVIRONMENTAL ASSESSMENT PERFORMED BY EW CONSULTANTS, INC. FOR RIVERLAND PARCEL D WAS PERFORMED ON APRIL 18, 2022.







	STR # TYPE GRATE										$\bigcirc$	
ATCH T AIN WITH CATCH AIN WITH MANHO /ALVE DN ERS N / ONCRETE POLE LACK FIBERGLAS D-3) EVATION EVATION NUM PIPE T T	BASIN – DLE –			CORRUGA DRAINAC DRAINAC HIGH PO HIGH PEI LANDSCA LAKE MA CITY OF OPEN SF REINFOF UTILITY VALLEY YARD DF PAVEME SIDEWAI DETECTA SECTION	ATED PLASTIC GE EASEMENT GE SWALE EAS INT RFORMANCE PA APE EASEMENT AINTENANCE A AINTENANCE A AINTENANCE A TOORT ST. LUC PACE CED CONCRET CEASEMENT EASEMENT EASEMENT EASEMENT EASEMENT CEASEMENT CEASEMENT E." PLAT DEDI GUTTER INLE RAIN NT LK ABLE WARNING AL PLANTING	C PIPE SEMENT OLYPROPYLENE T ACCESS EASEMENT CIE UTILITY EA RESTRICTED AF CATION) T G SURFACE (SEE AREA	NT SEMENT REA	CPP D.E. D.S.E. HP HPPP L.E. L.M.A.E. L.M.A.E. D.S.L.U.E. O.S. RCP U.E. U.ER.A. VGI YD		PAVING, GRADING AND DRAINAGE PLAN	RIVERLAND-PARCEL	PLAT ONE
			<u>NOTES:</u> 1. MIN SHA	VIMUM FIN ALL BE EL	NISH FLOOR EVATION 3	ELEVATION F 0.50' NAVD88	OR ANY	STRUCTUR	Ē			З
			2. MIN 29. STO 3. MIN 28. STO 4. ALL NOI TO VEF TH	JIMUM PER 50' NAVDA DRM STAC JIMUM ROJ 60' NAVDA DRM STAC DRM STAC LELEVAT RTH AMER CONVERT RTH AMER CONVERT RTICAL DJ E NAVD88	RIMETER ELI RIMETER ELI 88, WHICH I 6E ELEVATIO 88, WHICH I 6E ELEVATIO 7 ELEVATIO 81 CAN VERTIO 7 ELEVATIO 8 ELEVATIO	EVATION SHADE EVATION SHA S ABOVE THE ON. S ABOVE THE ON. N ON THESE P CAL DATUM C NS TO THE NA 29 (NGVD29), N. FOR EXAMP	LL BE EI 25-YEA 10-YEA PLANS AF DF 1988 ATIONAL ADD 1.47 LE, NAVI	LEVATION R, 3-DAY ELEVATIO R, 1-DAY RE IN THE (NAVD88). GEODETIC 75 FEET TC D88 + 1.47	N ) 5'			DATE BY
			= N 5. DE THE 304 ANI EDI 6. AS INC SUE OF 7. THE ANI ANI ANI ANI ANI 8. A S COI PEE	IGVD29. TECTABLE E REQUIRE A AND F.D D BRIDGE TIONS). AN ALTEI C. HPPP D BSTITUTE PORT ST. PORT ST. PROPER PRESENTA D DISPOSA D SHALL E EA FORM D SHALL E EA FORM TH CITY ( SITE ENVI NSULTAN REORMED	E WARNING S EMENTS OF I .O.T. STAND CONSTRUCT RNATE TO A RAINAGE, RO D WITH WRI . LUCIE AND TY OWNER, ATIVES SHAL AL OF LITTE BE RESPONS THE EDGE O I THE CITY'S CODE, SECTI RONMENTAL TS, INC. FOR ON APRIL 18	SURFACES SHA F.D.O.T. DESIG ARD SPECIFIC ION SECTION ADVANCED DRA CP STORM PIP ITTEN APPROV GLH ENGINEE CONTRACTOR L PROVIDE P ER WITHIN TH IBLE FOR MAI F PAVEMENT S RIGHT-OF-V ON 41.08 (G). ASSESSMENT RIVERLAND F 3, 2022.	ALL COM SN STANE SATIONS 527 (CU AINAGE S E MAY B VAL FRC RING, LL , AND AL ICKUP, R IE PROJE NTENAN TO THE VAY IN A T PERFO PARCEL I	IPLY WITH FOR ROAD FOR ROAD IRRENT SYSTEMS, M THE CIT C. JTHORIZED EMOVAL, CT LIMITS CE OF THE PROPERTY ACCORDANC RMED BY EV D WAS	Y Y V			REVISIONS
				SHEET.5	SHEET 15	SHEET 10 SHEET 10 SHEET SHEET		SHEET 9 SHEET 10 SHEET 11		CLH ENGINEERING, LLC	<ul> <li>1600 SAWGRASS CORPORATE</li> <li>1600 SAWGRASS</li> <li>1600 SA</li></ul>	C PHONE: (954) 753-1730
				SHEET 12	SHEET 13	SHEET 3	SHE			DATE: DESIG CHECH FILE I RIV-	ED BY ED BY ED BY: NAME: -D PL	/22 /: AQC : BA
					K	EY MAP N.T.S.				BRIA FLOR	N ARNOLD, IDA P.E. #8	P.E. 1294
	<u>NO</u>	TE: AL	<u>L GRA</u>	DES	<u>SHOW</u>	N ARE	<u>IN N</u>	IAVD8	<u>8</u>	RIV-[	) PL 1	PD
						P22-				SHE	et 10 of	- 21



STR # TYPE GRATE RIM EL. INV EL. N WITH CATCH BASIN	CORRUGATED PLASTIC PIPE       CPP         DRAINAGE EASEMENT       D.E.         DRAINAGE SWALE EASEMENT       D.S.E.         HIGH POINT       HP         HIGH PERFORMANCE POLYPROPYLENE       HPPP         LANDSCAPE EASEMENT       L.E.         LAKE MAINTENANCE ACCESS EASEMENT       L.M.E.         CITY OF PORT ST. LUCIE UTILITY EASEMENT       P.S.L.U.E.         OPEN SPACE       O.S.         REINFORCED CONCRETE PIPE       RCP         UTILITY EASEMENT       U.E.         VALLEY GUTTER INLET       VGI         YARD DRAIN       YD         PAVEMENT       SIDEWALK         DETECTABLE WARNING SURFACE (SEE NOTE)       SSSSSSS         LITTORAL PLANTING AREA       SCTION CALLOUT	PAVING, GRADING AND DRAINAGE PLAN FOR	RIVERLAND-PARCEL D PLAT ONE
	<ol> <li>NOTES:         <ol> <li>MINIMUM FINISH FLOOR ELEVATION FOR ANY STRUCTURE SHALL BE ELEVATION 30.50' NAVD88, WHICH IS ABOVE THE 100-YEAR, 3-DAY STORM STAGE ELEVATION.</li> <li>MINIMUM PERIMETER ELEVATION SHALL BE ELEVATION 29.50' NAVD88, WHICH IS ABOVE THE 25-YEAR, 3-DAY STORM STAGE ELEVATION.</li> <li>MINIMUM ROAD CROWN ELEVATION SHALL BE ELEVATION 28.60' NAVD88, WHICH IS ABOVE THE 10-YEAR, 1-DAY STORM STAGE ELEVATION.</li> <li>ALL ELEVATIONS SHOWN ON THESE PLANS ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TO CONVERT ELEVATIONS TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), ADD 1.475 FEET TO THE NAVD88 ELEVATION. FOR EXAMPLE, NAVD88 + 1.475' = NGVD29.</li> <li>DETECTABLE WARNING SUFFACES SHALL COMPLY WITH THE REQUIREMENTS OF F.D.O.T. DESIGN STANDARDS INDEX 304 AND F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 527 (CURRENT EDITIONS).</li> <li>AS AN ALTERNATE TO ADVANCED DRAINAGE SYSTEMS, INC. HPPP DRAINAGE, RCP STORM PIPE MAY BE SUBSTITUTED WITH WRITTEN APPROVAL FROM THE CITY OF PORT ST. LUCIE AND GLH ENGINEERING, LLC.</li> <li>THE PROPERTY OWNER, CONTRACTOR, AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL, AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FORM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE WITH CITY CODE, SECTION 41.08 (G).</li> </ol> </li> <li>A SITE ENVIRONMENTAL ASSESSMENT PERFORMED BY EW CONSULTANTS, INC. FOR RIVERLAND PARCEL D WAS</li> </ol>		REVISIONS DATE BY CK
	PERFORMED ON APRIL 18, 2022.	BRIA FLOR:	1600 SAWGRASS CORPORATE 1600 SAWGRASS CORPORATE PARKWAY, SUITE 400 PARKWAY, SUITE 400 SUNRISE, FLORIDA 33323 PHONE: (954) 753–1730 PHONE: (954) 753–1730
<u>NOTE: ALI</u>	_ GRADES SHOWN ARE IN NAVD88 P22-	RIV-E Shff	) PL 1 PD et 11 of 21



## STORM MAIN WITH O BASIN AND CALL OU EXISTING STORM M SANITARY SEWER N WATER MAIN WITH PROPOSED ELEVAT ELEVATION BY OTH EXISTING ELEVATION DIRECTION OF FLOW STREET LIGHT

MATCH LINE CURB & GUTTER INL 29.90 MATCH LINE (SEE SHEET 4) ∑133 LF 36" \* \* HPPP • 0.64% \* \* \* \* \* \* \* \* \* \* \*  $\Psi \quad \Psi \quad \Psi \quad \Psi \quad \Psi \quad \Psi$ Ψ Ψ  $\Psi$   $\Psi$   $\Psi$   $\Psi$   $\Psi$ REC. TRACT -MARMAC PIPE COUPLER - 40 LF 36" CAP ∕ ● 0.64% 5.10 AC. OUTFALL 19.10 PLAT BOUNDARY MATCH LINE (SEE SHEET 13)

STR # TYPE GRATE RIM EL. INV EL.	
BASIN AND CALL OUT	
EXISTING STORM MAIN WITH CATCH BASIN -	
SANITARY SEWER MAIN WITH MANHOLE -	
WATER MAIN WITH VALVE	— — — <del>№</del> — —
PROPOSED ELEVATION	20.00
ELEVATION BY OTHERS	20.00
EXISTING ELEVATION	
DIRECTION OF FLOW	^ ~~~
STREET LIGHT STREET LIGHT 35' CONCRETE POLE STREET LIGHT 20' BLACK FIBERGLASS POLE STOP SIGN (R1-1 w/ D-3)	⊷● ■
LOT NUMBER	(1)
FINISHED FLOOR ELEVATION	20.00
CONTROL WATER ELEVATION	C.W. ELEV.
CORRUGATED ALUMINUM PIPE	CAP
DITCH BOTTOM INLET	DBI
CURB & GUTTER INLET	CGI

CORRUGATED PLASTIC PIPE	CPP
DRAINAGE EASEMENT	D.E.
DRAINAGE SWALE EASEMENT	D.S.E.
HIGH POINT	HP
HIGH PERFORMANCE POLYPROPYLENE	HPPP
LANDSCAPE EASEMENT	L.E.
LAKE MAINTENANCE ACCESS EASEMENT	L.M.A.E.
LAKE MAINTENANCE EASEMENT	L.M.E.
CITY OF PORT ST. LUCIE UTILITY EASEMENT	P.S.L.U.E.
OPEN SPACE	0.S.
REINFORCED CONCRETE PIPE	RCP
UTILITY EASEMENT	U.E.
UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)	U.ER.A.
VALLEY GUTTER INLET	VGI
YARD DRAIN	YD
PAVEMENT	
SIDEWALK	A. 4.
DETECTABLE WARNING SURFACE (SEE NOTE)	
LITTORAL PLANTING AREA	•••••
SECTION CALLOUT	

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		CORRUGATED PLASTIC PIPE	CPP
CALL OUT	0	DRAINAGE EASEMENT	D.E.
ORM MAIN WITH CATCH BASIN	8	DRAINAGE SWALE EASEMENT	D.S.E.
EWER MAIN WITH MANHOLE		HIGH POINT	HP
		HIGH PERFORMANCE POLYPROPYLENE	HPPP
N WITH VALVE		LANDSCAPE EASEMENT	L.E.
LEVATION	20.00	LAKE MAINTENANCE ACCESS EASEMENT	L.M.A.E.
BY OTHERS	20.00)	LAKE MAINTENANCE EASEMENT	L.M.E.
	~ <u>~</u>	CITY OF PORT ST. LUCIE UTILITY EASEMENT	P.S.L.U.E
EVATION	v <sup>2</sup> <sup>2</sup> <sup>2</sup>	OPEN SPACE	0.S.
DF FLOW	^ <b>←</b> ~	REINFORCED CONCRETE PIPE	RCP
чт	-	UTILITY EASEMENT	U.E.
HT 35' CONCRETE POLE		UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)	U.ER.A.
HT 20' BLACK FIBERGLASS POLE	٥	VALLEY GUTTER INLET	VGI
R1-1 w/ D-3)	•	YARD DRAIN	YD
R		PAVEMENT	
OOR ELEVATION	20.00	SIDEWALK	A. 4.
ATER ELEVATION	C.W. ELEV.	DETECTABLE WARNING SURFACE (SEE NOTE)	
D ALUMINUM PIPE	CAP		
OM INLET TER INLET	DBI CGI	SECTION CALLOUT	









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								DATE BY CK
								REVISIONS
		SHEET 14 SHEET 14 SHEET 12 SHEET 13 SHEET 13	SHEET 9 SHEET 10 SHEET 11 SHEET 2	SCA DAT DES: CHE RIV	D I I I I I I I I I I I I I I I I I I I	$\begin{array}{c c}  A  &  C  &  C  \\  A  &  C  \\  A  &  A  \\  A $	Image:	QC
<u>NO</u>	<u>TE: ALL GRA</u>	KEY MAP N.T.S. DES SHOWN ARE IN N P22-	<u>14VD88</u>	BF FLG RIV	DRIDA F	rnold p.e. #8 L 1 4 OI	P.E. 31294 P	, D 1



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# STORM MAIN WITH BASIN AND CALL OU

EXISTING STORM M SANITARY SEWER I

WATER MAIN WITH

PROPOSED ELEVAT ELEVATION BY OT

EXISTING ELEVATI

DIRECTION OF FLO

STREET LIGHT STREET LIGHT 35' STREET LIGHT 20' STOP SIGN (R1-1 w

LOT NUMBER FINISHED FLOOR EI CONTROL WATER E

CORRUGATED ALUN DITCH BOTTOM INL CURB & GUTTER INL

STE #         TYPE         RIM EL.         NV EL         ALN WITH CATCH BASIN         NAIN WITH CATCH BASIN         VALVE	PAVING, GRADING AND DRAINAGE PLAN FOR RIVERLAND-PARCEL D PLAT ONE
	. На Колана Калана К
	B
	DATE
OPE SHEET 16	REVISIONS
SHEET 15 SHEET 15 SHEET 15 SHEET 7 SHEET 10 SHEET 14 SHEET 10 SHEET 10 SHEE	<b>GLH ENGINEERING, LLC</b> 1600 SAWGRASS CORPORATE PARKWAY, SUITE 400 SUNRISE, FLORIDA 33323 PHONE: (954) 753-1730
SHEET 12 SHEET 13 SHEET 13 SHEET 13 KEY MAP	SCALE: 1"=100' DATE: 8/17/22 DESIGNED BY: AQC CHECKED BY:BA FILE NAME: RIV-D PL 1 PD
	BRIAN ARNOLD, P.E. FLORIDA P.E. #81294
P22-	SHEET 15 OF 21



## <u>STRIPING KEY</u>

- A 6" SOLID WHITE
- B 8" SOLID WHITE
- C 12" SOLID WHITE
- D 18" SOLID WHITE E - 24" SOLID WHITE
- (G)— 6" SKIP WHITE TYP. (6'-10')
- (I)— 6" SOLID YELLOW
- (J)— 18" SOLID YELLOW
- (K)- 6" DOUBLE YELLOW

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## STORM MAIN WITH CA BASIN AND CALL OUT

EXISTING STORM MA

WATER MAIN WITH

PROPOSED ELEVATION

EXISTING ELEVATIO

DIRECTION OF FLOW

STREET LIGHT STREET LIGHT 35' C STREET LIGHT 20' B

STOP SIGN (R1-1 w/

FINISHED FLOOR ELE CONTROL WATER EL CORRUGATED ALUMI

DITCH BOTTOM INLE CURB & GUTTER INLE

CATCH TYP GRA RIM INV CATCH AIN WITH CATCH BAS MAIN WITH MANHOLE VALVE ION VALVE ION VALVE ION ERS DN W CONCRETE POLE BLACK FIBERGLASS P D-3) EVATION LEVATION INUM PIPE ET ET	$ \begin{array}{c}                                     $	CORRUGATED PLASTIC PIPECPPDRAINAGE EASEMENTD.E.DRAINAGE SWALE EASEMENTD.S.E.HIGH POINTHPHIGH PERFORMANCE POLYPROPYLENEHPPPLANDSCAPE EASEMENTL.M.A.E.LAKE MAINTENANCE ACCESS EASEMENTL.M.A.E.LAKE MAINTENANCE EASEMENTL.M.E.CITY OF PORT ST. LUCIE UTILITY EASEMENTP.S.L.UE.OPEN SPACEO.S.REINFORCED CONCRETE PIPERCPUTILITY EASEMENT - RESTRICTED AREAU.ER.A.(SEE "U.E." PLAT DEDICATION)YDPAVEMENTYDPAVEMENTVGISIDEWALKIIIITORAL PLANTING SURFACE (SEE NOTE)LITTORAL PLANTING AREAIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		PAVING, GRADING AND DRAINAGE PLAN	RIVERI AND-PARCFI D		PLA I ONE
							ъ
							DATE BY
							REVISIONS
		SHEET 15 SHEET 14 SHEET 14 SHEET 6 SHEET 11		GLH ENGINEERING, LLC	1600 SAWGRASS CORPORATE PARKWAY, SUITE 400	SUNRISE, FLORIDA 33323	
		SHEET 12 SHEET 12 SHEET 13 SHEET 13		SCAL DATE DESI( CHEC FILE RIV	E: 1": : 8/1 GNED KED E NAME –D PL	=40' 7/2; BY: 4 3Y: B, E: _ 1 F	2 AQC A >D
		KEY MAP N.T.S.		BRI. FLOF	AN ARNC RIDA P.E.	LD, P.E #8129	 94
<u>1</u>	NOTE: ALL GRA	DES SHOWN ARE IN NAVD88 P22-	<u>}</u>	RIV-	D PL		>D
				SHE	EI 16	OF 2	21

![](_page_16_Figure_0.jpeg)

	1	PAVING	/ SIDEWALK SPECIF	FICAT	IONS				
TYPE	WEARING SURFACE		BASE		SUBGRADE		STRUCTURAL	NUMBER (SN) SN = 1.89 MIN.)	AN
<u>30' RIGHT-OF-WAY ROAD</u> ECTION AND ENTRY ROAD ECTION	2" THICK, TYPE S-III A.C.A.C. INSTALLED IN TWO LIFTS (FIRST LIFT TO BE 1" & SECOND LIFT TO BE 1"). TACK COAT REQUIRED WITH MULTIPLE LIFTS.	STRUCTURAL COEFFICIENT PER INCH = 0.44	8" THICK, LIMEROCK (LBR 100) COMPACTED IN ONE LIFT TO 98% MAXIMUM DRY DENSITY, A.A.S.H.T.O. T-180 0.	TRUCTURAL OEFFICIENT ER INCH = .18	12" THICK, STABILIZED SUBGRADE, COMPACTED TO 98% MAXIMUM DRY DENSITY A.S.H.T.O. T-180 AND STABILIZED TO EITHER L.B.R. = 40 OR F.B.V = 75	STRUCTURAL COEFFICIENT PER INCH = 0.08	$2 \times 0.44 = 0$ $8 \times 0.18 = 1$ $\frac{12 \times 0.08}{\text{SN}} = 3.28$	0.88 .44 0.96	RCE RCE
			OPTIONAL BLACK BASE 5" THICK, TYPE B-12.5 (BLACK BASE) MAY BE SUBSTITUTED IN LIEU OF 6-1/2" LIMEROCK	TRUCTURAL OEFFICIENT ER INCH = .30	12" THICK, STABILIZED SUBGRADE, COMPACTED TO 98% MAXIMUM DRY DENSITY A.S.H.T.O. T-180 AND STABILIZED TO EITHER L.B.R.	STRUCTURAL COEFFICIENT PER INCH = 0.08	$2 \times 0.44 = 0$ $5 \times 0.30 = 1$ $\frac{12 \times 0.08}{\text{SN}} = 3.34$	).88 .50 <u>).96</u>	D DRAIN
			OPTIONAL DOUBLE ROCKST5.5" ADDITIONAL LIMEROCKCCBASE AND 12" COMPACTEDPESUBGRADE MAY BE0.SUBSTITUTED IN LIEU OF 12"STABILIZED SUBGRADE	TRUCTURAL OEFFICIENT ER INCH = .18	12" THICK COMPACTED	STRUCTURAL COEFFICIENT PER INCH = 0	$2 \times 0.44 = 0$ $13.5 \times 0.18 = 2$ $\frac{12 \times 0}{\text{SN}} = 3.31$	0.88 2.43 <u>0</u>	
AVER BRICK ON 80' RIGHT-OF-WAY ROAD ECTION AND ENTRY ROAD ECTION	INTERLOCKING CONC. PAVER STONES 2§" THICK (MIN.) 1" SCREENED OR CONC. SAND	STRUCTURAL COEFFICIENT PER INCH = 0	8" THICK LIMEROCK LBR 100 ST COMPACTED IN ONE LIFT TO CC 98% MAXIMUM DRY DENSITY, PE A.A.S.H.T.O. T-180 0.	TRUCTURAL OEFFICIENT ER INCH = .18	12" THICK, STABILIZED SUBGRADE, COMPACTED TO 98% MAXIMUM DRY DENSITY A.S.H.T.O. T-180 AND	STRUCTURAL COEFFICIENT PER INCH = 0.08	2.375 X 0 = 0 8 X 0.18 = 1 <u>12 X 0.08 = 0</u> SN = 2.40	) .44 <u>).96</u>	G, GRA Z∟∠
			OPTIONAL BLACK BASEST5" TYPE B-12.5 (BLACK BASE)CCMAY BE SUBSTITUTED IN LIEUPEOF 8" LIMEROCKO.	TRUCTURAL OEFFICIENT ER INCH = .30	STABILIZED TO EITHER L.B.R. = 40 OR F.B.V. = 75		$\begin{array}{cccc} 2.375 \times 0 = & 0 \\ 5 \times 0.30 = & 1 \\ \underline{12 \times 0.08} = & 0 \\ SN = 2.46 \end{array}$	) .50 <u>).96</u>	AVIN /EF
0' RIGHT-OF-WAY ROAD ECTION	2" THICK, TYPE S-III A.C.A.C. INSTALLED IN TWO LIFTS (FIRST LIFT TO BE 1" & SECOND LIFT TO BE 1"). TACK COAT REQUIRED WITH MULTIPLE LIFTS.	STRUCTURAL COEFFICIENT PER INCH = 0.44	6-1/2" THICK, LIMEROCK (LBR 100) COMPACTED IN ONE LIFT TO 98% CC MAXIMUM DRY DENSITY, A.A.S.H.T.O. T-180 0.	TRUCTURAL OEFFICIENT ER INCH = .18	12" THICK, STABILIZED SUBGRADE, COMPACTED TO 98% MAXIMUM DRY DENSITY A.S.H.T.O. T-180 AND	STRUCTURAL COEFFICIENT PER INCH = 0.08	$2 \times 0.44 = 0$ $6.5 \times 0.18 = 1$ $\frac{12 \times 0.08}{\text{SN}} = 3.01$	).88 .17 ) <u>.96</u>	
			OPTIONAL BLACK BASEST5" THICK, TYPE B-12.5 (BLACKCCBASE) MAY BE SUBSTITUTED INPELIEU OF 6-1/2" LIMEROCKO.	TRUCTURAL OEFFICIENT ER INCH = .30	= 40 OR F.B.V. = 75		2 X 0.44 = ( 5 X 0.30 = 1 <u>12 X 0.08 = (</u> SN = 3.34	).88 .50 <u>).96</u>	
			OPTIONAL DOUBLE ROCKST5.5" ADDITIONAL LIMEROCKCCBASE AND 12" COMPACTEDPESUBGRADE MAY BE0.SUBSTITUTED IN LIEU OF 12"STABILIZED SUBGRADE	TRUCTURAL OEFFICIENT ER INCH = .18	12" THICK COMPACTED	STRUCTURAL COEFFICIENT PER INCH = 0	$2 \times 0.44 = 0$ $12.0 \times 0.18 = 2$ $\frac{12 \times 0}{\text{SN}} = 3.04$	0.88 2.16 <u>0</u>	
<u>6' MULTI-MODAL PATH</u>	1-1/2" THICK, TYPE S-III A.C.A.C. INSTALLED IN TWO LIFTS (FIRST LIFT TO BE 3/4" & SECOND LIFT TO BE 3/4").	STRUCTURAL COEFFICIENT PER INCH = 0.44	6–1/2" THICK, LIMEROCK (LBR 100) COMPACTED IN ONE LIFT TO 98% MAXIMUM DRY DENSITY, A.A.S.H.T.O. T–180 0.	TRUCTURAL OEFFICIENT ER INCH = .18	12" THICK, STABILIZED SUBGRADE, COMPACTED TO 98% MAXIMUM DRY DENSITY A.S.H.T.O. T-180 AND STABILIZED TO FITHER   B P	STRUCTURAL COEFFICIENT PER INCH = 0.08	$\begin{array}{rrrr} 1.50 \times 0.44 = & (\\ 6.5 \times 0.18 = & 1\\ \underline{12 \times 0.08} = & (\\ \mathrm{SN} = 2.79 \end{array}$	).66 .17 ) <u>.96</u>	
	TAOK COAT REQUIRED WITH MOETH EE EN TO.		OPTIONAL BLACK BASEST5" THICK, TYPE B-12.5 (BLACKCCBASE) MAY BE SUBSTITUTED INPELIEU OF 6-1/2" LIMEROCKO.	TRUCTURAL OEFFICIENT ER INCH = .30	= 40 OR F.B.V. = 75		1.50 X 0.44 = 0 5 X 0.30 = 1 <u>12 X 0.08 = 0</u> SN = 3.12	0.66 .50 <u>0.96</u>	
3' PATH SECTION	1-1/2" THICK, TYPE S-III A.C.A.C. INSTALLED IN TWO LIFTS (FIRST LIFT TO BE 3/4" & SECOND LIFT TO BE 3/4"). TACK COAT REQUIRED WITH MULTIPLE LIFTS.	STRUCTURAL COEFFICIENT PER INCH = 0.44	6-1/2" THICK, LIMEROCK (LBR 100) COMPACTED IN ONE LIFT TO 98% MAXIMUM DRY DENSITY, A.A.S.H.T.O. T-180	TRUCTURAL OEFFICIENT ER INCH = .18	12" THICK, STABILIZED SUBGRADE, COMPACTED TO 98% MAXIMUM DRY DENSITY A.S.H.T.O. T-180 AND STABILIZED TO EITHER L.B.R.	STRUCTURAL COEFFICIENT PER INCH = 0.08	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	0.66 .17 <u>0.96</u>	
			OPTIONAL BLACK BASEST5" THICK, TYPE B-12.5 (BLACKCCBASE) MAY BE SUBSTITUTED INPELIEU OF 6-1/2" LIMEROCK0.1	TRUCTURAL OEFFICIENT ER INCH = .30	= 40 OR F.B.V. = 75		$\begin{array}{rcl} 1.50 & X & 0.44 & = & ( \\ 5 & X & 0.30 & = & & 1 \\ \underline{12 & X & 0.08 & = & & ( \\ SN & = & 3.12 & & \\ \end{array}$	).66 .50 ) <u>.96</u>	
IDEWALKS *	4" THICK 3,000 PSI CONCRETE OR 6" THICK 3,000 PSI CONCRETE WITH W1.4 X W1.4, 6" X 6" REINFORCING MESH AT ALL DRIVEWAYS & L.M.A.E.'S	N/A	4" THICK, CLEAN SAND COMPACTED TO 98% PER A.A.S.H.T.O. T-180	Ά	N/A	N⁄A	N/A		
SIDEWALKS ADJACENT RESPECTIVE UNIT. SIDEWALK TO BE 4" TH DAYS. SIDEWALK TO BE BROO COMPACTED BASE TO E TO 98% PER A.A.S.H.T.C AT DRIVEWAYS, SIDEW MESH. TYPE "A" EXPANSION STANDARD INDEX #310 CONCRETE. TYPE "B" (2" TOOLEE STANDARD INDEX #310 WHENEVER POSSIBLE.	T TO RESIDENTIAL UNITS WILL BE CONS HICK, PORTLAND CEMENT CONCRETE, MINIMUM OM FINISHED WITH EVEN DUSTLESS SURFACE. BE A MINIMUM 4" OF CLEAN SAND OR SANDY LC O. T-180, FULL WIDTH. WALKS SHALL BE THICKENED TO 6" WITH 6"> VALKS SHALL BE LOCATED WHERE NEW CONCRETE 1 VALKS SHALL BE LOCATED AT 5" O.C. SAW-CUT VALKS	STRUCTED WIT 3,000 P.S.I. @ 2 DAM, COMPACTE (6" W1.4 X W1 ER PER F.D.O. MEETS EXISTIN TS) PER F.D.O. IOINTS AVOIDE	T. 6"x6" W1.4 X W1.4 SIDEWALK AT [	MAX. WEARIN	DRIVEWAY (BY OTHERS) VALLEY GUTTER 2% TYP. Z% TYP. MG SURFACE 6½"BASE 12" SUBGRADE N.T.S.	VALLEY GUTTE	R 6' T TRANSITION	<u>TPE 'F' CURB</u> 8" <b>DETAIL</b> N.T.S.	GLH ENGINEERING, LLC 1600 SAWGRASS CORPORATE PARKWAY, SUITE 400 SLINRISF FLORIDA 33323
ED AREA R 6" HIGH SI F F F F F F F F F F F F F F F F F F F	IDE 2" R 6" 3" R 4 4 4 5 0 744 4 5 0 744 5 0	SURFACE FLUSH WI OF CURB & G WEA SURI 6" MI 3,00 CO <u>NOTESI</u> 1. WF OF PA 2. SA	TO BE TH LIP UTTER RING ACE N. ACE N. THE THE THE THE THE THE THE THE	THE CROSS S OF ADJACEN CHES MINIMU	WEARING SURFACE	2" R 6" 2" R 6" 4 . 4 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4	, 	<u>I.</u>	SCALE: 1"=4 DATE: 8/17/ DESIGNED BY CHECKED BY: FILE NAME: RIV-D PL 1
OF ROADWAYS, THE CROS MENT AND THICKNESS OF CENTERS. N SPECIFIED SUBGRADE CC	S SLOPE OF THE GUTTER SHALL MATCH THE THE LIP SHALL BE 6 INCHES. DURSE.	5. CU	TYPE "E" MOUNTAB	LE CUR	SE. <u>NO</u> SAV RB J.T.S	VEUTS REQUIRED	D AT 10' CENTERS. <b>"CURB</b> N.T.S		BRIAN ARNOLD, FLORIDA P.E. #8
<u>PE "F" CURB</u>	& GUTTER N.T.S.			<u> </u>	<u>IOTE: ALL GRADE</u>	<u>S SHOW</u>	N ARE IN	NAVD88	RIV-D PL 1
							r22-		SHEET 17 OF

![](_page_16_Figure_32.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_18_Figure_0.jpeg)

SECTIONS,	/DETAILS LEGEND:
C/L CONC. EL. FF HPPP _/L ME MAX. MIN. P/L P.S.L.U.E. R/W S/W T/L TYP. J.E. J.ER.A.	-CENTERLINE -CONCRETE -ELEVATION -FINISHED FLOOR -HIGH PERFORMANCE POLYETHYLENE PIPE -LOT LINE -LAKE MAINTENANCE EASEMENT -MAXIMUM -MINIMUM -PROPERTY LINE -CITY OF PORT ST. LUCIE UTILITY EASEMENT -RIGHT-OF-WAY -SIDEWALK -TRACT LINE -TYPICAL -UTILITY EASEMENT -UTILITY EASEMENT -UTILITY EASEMENT RESTRICTED AREA

![](_page_19_Figure_0.jpeg)

PAVING, GRADING AND DRAINAGE PLAN			KIVERLANU-FARCEL U		PLAI UNE
					ΓE BY CK
					DAT
					REVISIONS
	OLH EINGINEERING, LLC	1600 SAWGRASS CORPORATE	PARKWAY, SUITE 400	SUNKISE, FLOKIDA 55525 Phone: (954) 753-1730	
SCA DA <sup>-</sup> DES CHE FIL RI	ALI FE SIC E E [V-	E: 3NE KED NAI -D	1"=( / 17 D B ) B ) ME: PL	40' 722 7:7 7:84	2 AQC A 2D
۲ F RIV	BRIA LOR	AN AF IDA I	RNOLI <sup>2</sup> .E. #	D, P.E 8129	4 201
S	HE	ET 2	20 C	)F 2	21

![](_page_20_Figure_0.jpeg)

		STORMWATER POLLUTION PREVENTION	<u>N F</u>	PLAN (SWPPP)
RATE	١.	SITE DESCRIPTION		MATERIALS WITH
CENT	Α.	LOCATION		ACCORDANCE WIT
MENT		THE PROJECT IS LOCATED IN ST. LUCIE COUNTY, FLORIDA AT THE WEST OF RIVERLAND BLVD. AND SOUTH OF RIVERLAND PARCEL C. THE PROJECT IS APPROXIMATELY 2 MILES WEST OF INTERSTATE 95.		2.0FFSITE VEHICLE
HAVE N OF	В.	CONSTRUCTION ACTIVITY		EXCESS DIRT MA SURFACES SHALL WATERED OR OT
WHEN JE IS		THE PROJECT CONSISTS OF RIVERLAND PARCEL D PLAT ONE, A 151.45 ACRE SINGLE-FAMILY RESIDENTIAL DEVELOPMENT AND RELATED SITE WORK AND UNDERGROUND UTILITIES. TOTAL RIVERLAND PARCEL D SITE		SEDIMENTS.
ENTS		AREA IS 456.8 AC. THE TOTAL AREA OF SITE TO BE DISTURBED FOR THIS PLAT IS 151.45 AC.		3.SANITARY WASTE: FACILITIES SHALL
		AND INSTALLATION OF UNDERGROUND STORM DRAINAGE, POTABLE WATER SYSTEMS, SANITARY SEWER SYSTEMS, ASPHALT PAVING AND MISCELLANEOUS ITEMS ASSOCIATED WITH THE OVERALL PROJECT.		4.FERTILIZERS AND
	C.	MAJOR SOIL DISTURBING ACTIVITIES		LANDSCAPE ARCH AS DESCRIBED E INSTALLATION AND
THE		THE MAJOR SOIL DISTURBING ACTIVITIES WILL INCLUDE CLEARING AND GRUBBING, EXCAVATION OF LAKES AND FILLING FOR THE BUILDING FOUNDATIONS AND TRENCHING FOR THE INSTALLATION OF UNDERGROUND	D.	APPROVED SITE AND LO
QUES POOR Y AS		GRUBBING, EXCAVATION OF LAKES AND FILLING FOR BUILDING FOUNDATIONS, TRENCHING FOR THE INSTALLATION OF UNDERGROUND FACILITIES, GRADING FOR ROADWAY SUBGRADE AND THE INSTALLATION OF THE PAVEMENT SECTION.		CONSTRUCTION PER FOR. A PERMIT FI IMPACTS TO EXISTIN
ICES	D.	RUNOFF COEFFICIENTS		THE MEASURES AND CONSTRUCTION AND
HALL		THE PROJECT AREA IS CURRENTLY AGRICULTURAL. THE RUNOFF COEFFICIENTS BEFORE, DURING AND AFTER CONSTRUCTION ARE AS FOLLOWS:		PREVENTION AND SI
T OF ANY		BEFORE CONSTRUCTION - AGRICULTURAL USE: $C = 0.3$	111.	MAINTENANCE THE CONTRACTOR WILL
		AFTER CONSTRUCTION: $C = 0.7-0.9$		CONTROL DEVICES AND TERMINATION IS EXECUT
	E.	RECEIVING WATERS		THE CONTRACTOR SHA DAILY BASIS AND DU
FROM MENT		MANAGEMENT DISTRICT (SFWMD) C-23 CANAL.		IMPLEMENTED TO MAINT
	١١.	CONTROLS	A. R	PROJECT REVIEW ON A
.) TO L BE		MEASURES ARE AS FOLLOWS FOR THE GENERAL CONSTRUCTION ACTIVITIES:	D.	TO RECORD RAINFALL D
		CLEARING AND GRUBBING: BASED ON THE EXISTING TOPOGRAPHY OF THE PROJECT AREAS, CERTAIN AREAS WITHIN THE LIMITS OF WORK MAY REQUIRE TEMPORARY SILT FENCES AND EROSION CONTROL DEVICES TO CONTAIN UNFINISHED SOILS WITHIN THE CONSTRUCTION AREA. THESE CONTROLS WILL BE TEMPORARY AND WILL BE REMOVED FOLLOWING THE FINAL STABILIZATION OF THE DISTURBED AREAS.	C.	REVIEW STABILIZATION MEASURES AND CONTI SODDING SHALL BE REF
		EXCAVATION ACTIVITIES: EXCAVATION FOR FOUNDATIONS WILL OCCUR WITHIN THE LIMITS OF THE FINISHED PROJECT AREA. THE LIMITS OF CONSTRUCTION AND PROJECT BOUNDARIES WILL BE GRADED TO CONTAIN ALL SPOIL MATERIAL FROM THE EXCAVATION ACTIVITIES ONSITE AND ANY DEWATERING ACTIVITIES WILL	D.	CONTROLS AS NECESSA FILTER CLOTH. SUCH SERVED THEIR USEFULN
)		DISCHARGES. TEMPORARY CONTAINMENT BERMS AND DIKES TO PREVENT UNCONTROLLED OFFSITE DISCHARGES. TEMPORARY CONTROLS WILL BE INSTALLED AS NECESSARY IN THE AREA OF THE EXCAVATION TO PREVENT EROSIONS OF UNSTABILIZED MATERIAL AND WILL BE MAINTAINED UNTIL THE FINAL STABILIZATION OF THESE AREAS IS COMPLETED.	E.	AN INSPECTION AND M 24 HOURS OF A RAINF
		GRADING: GRADING FOR THE PROJECT WILL BE COMPLETED IN PHASES AS EACH SECTION OF THE WORK PROGRESSES. ROUGH GRADING WILL OCCUR FOLLOWING THE CLEARING AND GRUBBING ACTIVITIES. FINAL GRADING WILL BE COMPLETED AROUND THE PERIMETER OF THE SITE. TEMPORARY CONTROLS WILL BE	F.	IF THE CONTRACTOR E DURING CONSTRUCTION, INSPECTED ON A DAIL ACCEPTABLE WATER QU
		FOLLOWING FINAL STABILIZATION.	IV.	INSPECTIONS
	Α.	EROSION AND SEDIMENT CONTROLS		QUALIFIED PERSONNEL SITE AND ALL DISTURBE
		1. STABILIZATION PRACTICES: THE PROPOSED WORK WILL BE STABILIZED ON AN INTERIM AND PERMANENT BASIS AS THE WORK PROGRESSES. STABILIZATION PRACTICES WILL CONSIST OF BUT MAY NOT BE LIMITED TO SEEDING, MULCHING AND SODDING.		DISTURBED AREAS AND INSPECTED FOR EVIDEN SYSTEM. THE STORMW
		2.STRUCTURAL PRACTICES: STRUCTURAL PRACTICES WILL BE IMPLEMENTED DURING CONSTRUCTION AS TEMPORARY CONTROLS. THESE ITEMS WILL INCLUDE BUT ARE NOT LIMITED OF THE FOLLOWING:		SHALL BE OBSERVED T REPORTS SHALL BE C EVENT OF 0.50 INCHE
		<ul> <li>a. BERMS AND DIKES FOR CONTAINMENT OF RUNOFF AND FOR DEWATERING ACTIVITIES.</li> <li>b. SILT FENCES FOR PERIMETER CONTROLS. IN LIEU OF OR IN ADDITION TO SILT FENCE, A 6' WIDE VEGETATED STRIP MAY BE INSTALLED FOR SEDIMENT CONTAINMENT.</li> </ul>	V.	RETAINED FOR A PERIO
		TEMPORARY EROSION CONTROL SHALL BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION, AND PERMANENT CONTROL MEASURES SHALL BE COMPLETED WITHIN 7 DAYS OF THE COMPLETED CONSTRUCTION ACTIVITIES		DEWATERING, WHEN NI DISCHARGE FROM THE FILTRATION AND TREATI REQUIREMENTS OF THE
F		STORMWATER MANAGEMENT		SITE. SPILL REPORTING PART 117 AND 40 CFR

CONSTRUCTION ACTIVITIES WILL INCLUDE THE INSTALLATION OF UNDERGROUND PIPING.

UPON COMPLETION OF THE PROJECT, STORMWATER RUNOFF WILL BE DIRECTED TO THE LAKES FOR WATER QUALITY TREATMENT AND FLOOD PROTECTION. RUNOFF WILL BE DIRECTED TO THE LAKES BY UNDERGROUND DRAINAGE LINES, CONTROL STRUCTURES, CURBING AND SHEET FLOW OVER GRASS AREAS.

THIS PROJECT HAS BEEN SUBMITTED TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT FOR A MODIFICATION TO CONCEPTUAL ENVIRONMENTAL RESOURCE PERMIT NO. 56-00558-S.

C. OTHER CONTROLS

1. WASTE DISPOSAL: THE CONTRACTOR SHALL PROVIDE LITTER CONTROL AND COLLECTION OF

NAME AND TITLE	COMPANY NAME, ADDRESS, AND PHONE NUMBER	RESPONSIBLE ITEM		

WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION. ALL FERTILIZER, OR OTHER CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR IN WITH THE EPA'S STANDARD PRACTICES. NO SOLID MATERIAL INCLUDING BUILDING AND MATERIAL SHALL BE DISPOSED OF, DISCHARGED OR BURIED ONSITE.

CLE TRACKING: LOADED HAUL TRUCKS SHALL BE COVERED WITH A TARPAULIN. MATERIAL ON THE ROADS SHALL BE REMOVED IMMEDIATELY. HAULING ON UNPAVED ALL BE MONITORED TO MINIMIZE DUST AND CONTROL EROSION. HAUL ROADS SHALL BE OTHER CONTROLS PROVIDED AS NECESSARY TO REDUCE DUST AND CONTROL

STE: THE CONTRACTOR SHALL PROVIDE PORTABLE SANITARY WASTE FACILITIES. THESE HALL BE COLLECTED OR EMPTIED BY A LICENSED SANITARY WASTE MANAGEMENT AS REQUIRED BY STATE REGULATIONS.

AND PESTICIDES: FERTILIZER SHALL BE APPLIED AT A RATE SPECIFIED BY THE ARCHITECT. THE APPLICATION OF FERTILIZERS SHALL BE ACCOMPLISHED IN A MANNER D BY THE MANUFACTURER OR LANDSCAPE ARCHITECT TO ENSURE THE PROPER AND TO AVOID OVER FERTILIZING.

LOCAL PLANS

PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT IS BEING APPLIED FROM THE UNITED STATES ARMY CORPS OF ENGINEERS HAS BEEN ISSUED FOR THE STING WETLANDS.

AND CONTROLS OUTLINED ABOVE WILL BE IMPLEMENTED BY THE CONTRACTOR DURING AND THESE MEASURES AND CONTROLS WILL PROVIDE THE NECESSARY POLLUTION SEDIMENTATION CONTROL DURING CONSTRUCTION.

WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT AND REMOVAL OF THE EROSION AND SEDIMENT CONTROL DEVICES AFTER THE NOTICE OF ECUTED.

SHALL REVIEW THE PROJECT AND ALL EROSION AND SEDIMENTATION CONTROLS ON A DURING AND FOLLOWING RAINFALL EVENTS. THE FOLLOWING PRACTICES WILL BE AINTAIN AND MONITOR EROSION AND SEDIMENTATION CONTROLS.

A DAILY BASIS.

TAIN RAIN GAUGES ONSITE (IF WEATHER STATIONS ARE NOT AVAILABLE IN THE AREA) LL DATA DAILY.

ON PRACTICES AND CONTROLS ON A DAILY BASIS AND MAINTAIN AND REPAIR THESE ONTROLS AS NECESSARY. TEMPORARY AND PERMANENT SEEDING, MULCHING AND REPAIRED IN BARE SPOTS AND WASHOUTS AND HEALTHY GROWTH ESTABLISHED.

PRACTICES ON A DAILY BASIS AND MAINTAIN AND REPAIR THESE MEASURES AND ESSARY. BUILT UP SEDIMENTS SHALL BE REMOVED FROM SILT FENCES, HAY BALES AND JCH CONTROLS SHALL BE REPLACED AS NECESSARY AND REMOVED WHEN THEY HAVE ULNESS.

MAINTENANCE REPORT SHALL BE COMPLETED AT LEAST EVERY 7 DAYS AND WITHIN AINFALL EVENT OF 0.50 INCHES OR MORE.

R ELECTS TO APPLY FOR PERMITS FOR DISCHARGE OF STORMWATER FROM THE SITE ION, ALL POINTS OF DISCHARGE OF STORMWATER RUNOFF FROM THE SITE SHALL BE DAILY BASIS AND CONTROLS AND MEASURES REPAIRED AS NECESSARY TO MAINTAIN R QUALITY AND DISCHARGE VOLUMES IN ACCORDANCE WITH THE STATE PERMITS.

NEL SHALL INSPECT ALL POINTS OF DISCHARGE, AS APPLICABLE, FROM THE PROJECT JRBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN STABILIZED.

AND AREAS USED FOR STORAGE OF MATERIALS EXPOSED TO PRECIPITATION SHALL BE IDENCE OF, OR POTENTIAL FOR POLLUTANTS ENTERING THE STORMWATER MANAGEMENT RMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENTATION CONTROL MEASURES D TO ENSURE THAT THEY ARE OPERATING CORRECTLY. INSPECTION AND MAINTENANCE COMPLETED AT LEAST EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL ICHES OF WATER OR GREATER (SEE ATTACHED FORM). THESE FORMS SHALL BE ERIOD OF AT LEAST 3 YEARS FOLLOWING THE DATE THE SITE IS FINALLY STABILIZED.

<u>DISCHARGES</u>

VI. CERTIFICATION

CERTIFICATION:

THEREAFTER."

NECESSARY, WILL BE DETAINED ONSITE WITHIN SMALL IMPOUNDMENTS AND MAY HE SITE UNDER EXTREME CONDITIONS. ANY DISCHARGE FROM THE SITE WILL REQUIRE EATMENT PRIOR TO ENTERING THE OFFSITE CONVEYANCE SYSTEM AND SHALL MEET THE THE STATE PERMITS FOR STORMWATER DISCHARGE AND DEWATERING ACTIVITIES FOR THE TING FOR ITEMS SUCH AS OILS, FUEL, ETC. SHALL MEET THE REQUIREMENTS OF 40 CFR CFR PART 302. CLEANUP AND DISPOSAL OF ALL SPILLS SHALL MEET THE APPLICABLE REGULATORY AGENCY REQUIREMENTS AND SHALL BE HANDLED AND DISPOSED OF AS REQUIRED BY LAW.

ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED

	P22-	
MS	CERTIFICATION SIGNATURE	DATE

PAVING GRADING AND DRATNAGF PLAN			KIVEKLANU-FAKCEL U		PLAI UNE
					DATE BY CK
					REVISIONS
	GLH ENGINEERING, LLC	1600 SAWGRASS CORPORATE	PARKWAY, SUITE 400	SUNKISE, FLUKIUA 55525 PHONE- (954) 753-1730	
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