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PEDESTRIAN LIGHTING DESIGN PROJECT FOR THE CITY OF COCONUT CREEK

HILTON ROAD FROM ALEXANDRIA BLVD. TO PARKING LOT LOCATED AT END OF THE PEDESTRIAN PATH PLAN SET

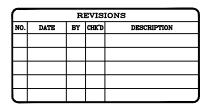


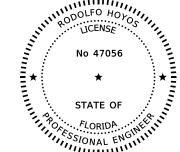
6861 S.W. 196th Avenue, Suite 302 Pembroke Pines, Florida · 33332 (954) 680-7771 · Fax: (954) 680-7781

RODOLFO HOYOS. P.E. NO. 47056

Progressive Design
& Engineering, Inc.

10891 La Reina Road | Telt 561-498-230. |
Suite 100 | Delray Beach, FL 33446 | CERTIFICATE OF AUTHORIZATION NO. 7151



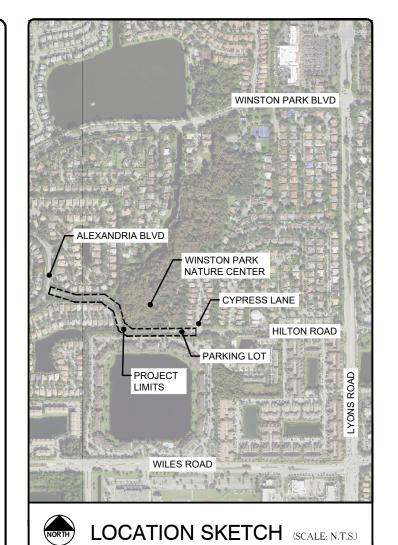


THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJANCENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILES DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



CITY OF COCONUT CREEK

CITY OF COCONUT CREEK OFFICIALS

PUBLIC WORKS DEPARTMENT

JOSHUA RYDELL MAYOR
SANDRA L. WELCH VICE MAYOR
BECKY TOOLEY COMMISSIONER
JACKIE RAILEY COMMISSIONER
JOHN A. BRODIE COMMISSIONER
KAREN BROOKS CITY MANAGER
BRIAN ROSEN CITY PROJECT MANAGER

ENGINEER OF RECORD:		
	RODOLFO HOYOS, P.E.	DATE
	LICENSE NO. 47056	

DATE: September 14, 2022	
SHEET NAME: G001	
R.J. BEHAR PROJECT No.: 22033	
100% PLAN SET	G001

- 3. ENDS OF EXISTING/NEW CONDUITS SHALL BE SEALED WITH POLYURETHANE FOAM AFTER WIRING IS COMPLETE. FOAM SEAL SHALL NOT BE USED AS A MEANS TO PROTECT CONDUCTORS FROM ABRASION IN RACEWAYS.
- 4. A SLUG SHALL BE INSERTED IN THE GROUNDED (NEUTRAL SIDE) OF FUSEHOLERS
- 5. GROUND CONDUCTOR, IF NEEDED, SHALL HAVE A GREEN JACKET, TYPE THWN-2, AND SHALL NOT BE SMALLER THAN NO. 6 AWG.
- 6. LIGHT POLE FOUNDATION SHALL BE CONCRETE AS PER INDEX 715-002 AND DETAILS IN PLANS.
- 7. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED AT A GRADE THAT IS FLUSH WITH THE ADJACENT AND SURROUNDING SIDEWALK.
- 8. THE POLE FOUNDATION CONDUITS SHALL EXTEND FROM 1" TO 2" INSIDE THE POLE BASE.
- 9. ONCE THE LIGHTING SYSTEM IS SUBSTANTIALLY COMPLETE, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR A FINAL INSPECTION OF THE LIGHTING CONSTRUCTION.
- 10. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR AND THE UTILITY OWNERS DURING CONSTRUCTION.
- 11. SUBMITTAL DATA PRIOR TO ANY PROCUREMENT ORDER THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR ALL MATERIALS PROPOSED FOR THE PROJECT AND SHALL INCLUDE. BUT NOT LIMITED TO:
 - CONDUCTORS, CONDUIT, GROUND RODS AND PULL BOXES.
- B. FUSES, FUSE HOLDERS, SURGE PROTECTORS AND POLE CABLE DISTRIBUTION SYSTEMS.
- STRUCTURAL CALCULATIONS FOR LIGHT POLE ASSEMBLY SHOWING IT MEETS 160 MPH WIND LOAD. CALCULATIONS SHALL BE SIGNED AND SEALED BY A FLORIDA LICENSED ENGINEER.

SUBMIT THE SHOP DRAWINGS AND DESIGN DATA DIGITALLY TO THE ENGINEER, ALLOW A 15 DAY TURNAROUND FOR SUBMITTALS.

- 12. ALL FEATURES IMPACTED DURING THE CONSTRUCTION OF THE LIGHTING SYSTEM (LANDSCAPING, IRRIGATION, SIDEWALK, ETC.) SHALL BE RESTORED TO ITS ORIGINAL CONDITION, AS A MINIMUM.
- 13. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW 2 FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE;

UTILITY OWNERS	TELEPHONE NUMBERS	CONTACT PERSON
CITY OF COCONUT CREEK	954-545-6655	EILEEN CABRERA
FLORIDA POWER & LIGHT-BROWARD	386-586-6403	JOEL BRAY

14. CONTRACTOR SHALL ENSURE THAT LIGHT POLES INTENDED TO HAVE TYPE II AND TYPE V DISTRIBUTIONS ARE INSTALLED CORRECTLY ON EACH POLE, SEE NOTE 3 UNDER POLE DATA TABLE. CONTRACTOR SHALL DEMONSTRATE THIS AT THE FINAL INSPECTION.

LEGEND AND DESCRIPTION

WATER LINE



	CITY OF COCONUT CREEK PROPERTY LINE	• • •	BENCH	It's fast. It's free. It's the law.
10+00	BASELINE W/ STATIONING	0	TRASH RECEPTABLE	www.callsunshine.com
	CATCH BASIN	•	WATER VALVE	
©	STORMWATER MANHOLE	*	HYDRANT	
(·)==	FPL LIGHT POLE		UTILITY BOX	
, b, , d	CONCRETE			
	ASPHALT	○ ─○	NEW ALUMINUM POLE, ARM, LUMINAIRI SEE ELECTRICAL DETAILS SHEET.	E AND FOUNDATION.
-xxxx	FENCE LINE		SEE ELECTRICAL DETAILS SHEET.	
Θ	BOLLARD		EXISTING CONDUIT WITH EXISTING C	ONDUCTORS TO REMAIN.
-	SIGNAGE		EXISTING LIGHTING AND IRRIGATION	SERVICE SERVICE
COMCAST	UNDERGROUND COMCAST LINE		PANEL TO REMAIN.	
FPL	UNDERGROUND FPL LINE			
—— sтм ——	STORMWATER LINE			

GENERAL NOTES:

- 1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COCONUT CREEK, FLORIDA DEPARTMENT OF TRANSPORTATION. FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. BROWARD COUNTY HEALTH DEPARTMENT, BROWARD COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT, FLORIDA BUILDING CODE (LATEST EDITION), AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.
- 2. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE STRICTLY OBSERVED.
- 3. ALL ELEVATIONS ON THE DRAWINGS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
- 4. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A UTILITY LOCATION SERVICE SUCH AS "SUNSHINE STATE ONE CALL OF FLA. INC." AT (800) 432-4770 AT LEAST 48 HOURS PRIOR TO REGINNING ANY EXCAVATION
- 5. EXISTING UTILITY LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN
- 6. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE LOCATION AND MATERIAL OF ALL EXISTING UTILITIES WITHIN
- 7. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER
- 8. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO LOCATE, EXCAVATE AND PREPARE FOR CONNECTIONS TO THE EXISTING SYSTEMS. ALL AS SHOWN ON THE DRAWINGS. THE COST FOR THIS WORK AND FOR THE ACTUAL CONNECTION TO THE EXISTING SYSTEMS SHALL BE INCLUDED IN THE BID PRICE FOR THE PROJECT AND SHALL NOT RESULT IN ANY ADDITIONAL COST TO THE OWNER.
- 9. CONTRACTOR MUST PROVIDE FOR AND MAINTAIN ADEQUATE ACCESS AT ALL TIMES TO ALL BUSINESSES AND RESIDENCES AFFECTED BY PROGRESS OF THE WORK
- 10. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGED INFRASTRUCTURE OR LANDSCAPE CAUSED BY THE CONSTRUCTION.
- 11. PROJECT SITE SAFETY:
 - A. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY, AND WARRANTS THAT THIS INTENT IS MADE EVIDENT BY THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
 - B. ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS OR ENCOUNTERED THROUGH THE PROGRESSION OF WORK AT THIS PROJECT SITE ARE ASSUMED TO BE LIVE, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS WHEN WORKING AROUND EXISTING OVERHEAD OR UNDERGROUND UTILITIES. VALVE BOXES AND MANHOLE RIM ELEVATIONS SHOWN ARE APPROXIMATE.

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
1	EXIST	STA. 0+51 LT B	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
2	EXIST	STA. 1+40 LT B	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
3	EXIST	STA. 2+35 LT B	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
4	EXIST	STA. 3+25 LT B	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
5	EXIST	STA. 4+11 LT B	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
6	EXIST	STA. 4+98 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
7	EXIST	STA. 5+61 LT B	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
8	EXIST	STA. 6+43 LT B	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
9	EXIST	STA. 7+17 LT B	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
10	EXIST	STA. 7+82 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
11	EXIST	STA. 9+00 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
12	EXIST	STA. 9+77 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
13	EXIST	STA. 10+72 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
14	EXIST	STA. 11+58 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
15	EXIST	STA. 12+46 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
16	EXIST	STA. 13+32 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
17	EXIST	STA. 14+22 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
18	EXIST	STA. 15+14 LT &	20 IN	71W	12 FT	SEE NOTE 2	715-536-110
19	EXIST	STA. 15+97 LT B	20 IN	71W	12 FT	SEE NOTE 2	715-536-110

NOTES:

- 1. POLE SETBACK IS THE DISTANCE MEASURED FROM EDGE OF S/W OR ASPHALT, TO THE FACE OF POLE.
- 2. LIGHT POLE SHOULD BE REPLACED AT EXISTING LOCATION. MAXIMUM SETBACK FROM S/W EDGE OR ASPHALT
- 3. LUMINAIRES FOR POLES 1 THRU 17 SHALL HAVE A TYPE II DISTRIBUTION AND BE REFERRED TO AS LUMINAIRE TYPE A. LUMINIARES FOR POLES 18 AND 19 SHALL HAVE A TYPE V DISTRIBUTION AND BE REFERRED TO AS LUMINAIRE TYPE B.

WIND LOAD DESIGN CRITERIA

WIND SPEED 160 MPH

RODOLFO HOYOS

P.F. LICENSE NO. 47056

DATF:

Company

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Behar

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PROJEC:

NTA, LEGEND & NC LIGHTING DESIGN P Y OF COCONUT CREEK

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EDES. 5

RJB Proj. No: 22033

Date: September 14, 20 DESIGN: DRAWN: CHECK

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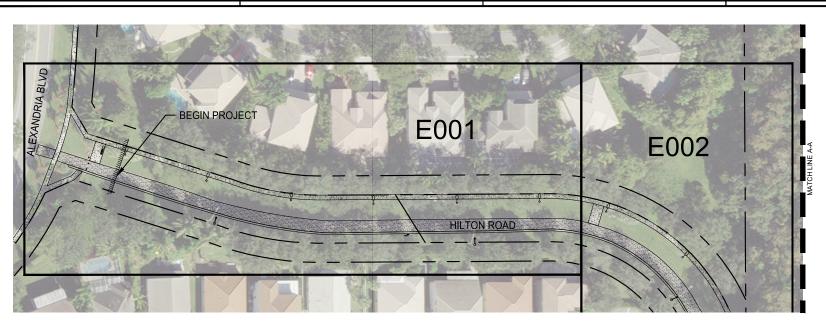
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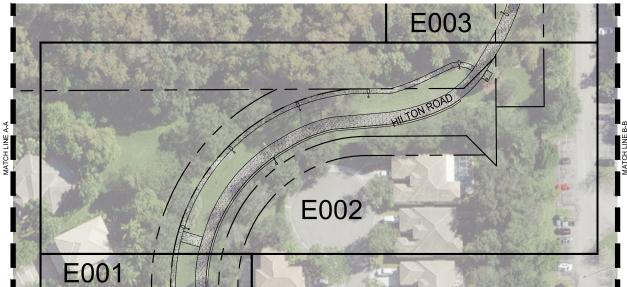
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SHEET 2 OF 8

G002







TABULATION OF QUANTITIES												
PAY	DESCRIPTION	UNIT	SHEET NUMBERS							GRAND		
ITEM			E001		E002		E003		E004		TOTAL	
NO .			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH (1" SCH 40 PVC)	LF	18		15		21		3		57	
715-10-2	LIGHT POLE FOUNDATION, F&I	EA	6		5		7		1		19	
715-69-000	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	6		5		7		1		19	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	6		5		7		1		19	
713-300-1	CONTRACTOR STATEM, CONVENTIONAL	LA			-				1		19	
715-536-110	LIGHT POLE COMPLETE- SPECIAL DESIGN, INSTALL, POLE TOP MOUNT, ALUMINUM, 12'	EA	6		5		7		1		19	

INCLUDES THE COST OF 3 LF OF CONDUIT FROM PULL BOX TO LIGHT POLE AT EACH LOCATION.

715-69-000 INCLUDES THE REMOVAL AND DISPOSAL OF COMPLETE LIGHT POLE AND CONCRETE FOOTING.

715-536-110 CITY OF COCONUT CREEK WILL ADVANCE PROCURE THE LIGHT POLE ASSEMBLIES. INCLUDES THE COST OF OBTAINING LIGHT POLES AND TRANSPORTING THEM TO THE JOB SITE. LIGHT POLES WILL BE STORED AT THE CITY OF COCONUT CREEK, 4900 WEST COPANS ROAD. CONTACT BRIAN ROSEN AT (954) 545-6614 TO COORDINATE.

RODOLFO HOYOS P.E. LICENSE NO. 47056 DATE:

DESIGN: DRAWN: CHECK RUDY AS HM

Company,

R.J.Behar &

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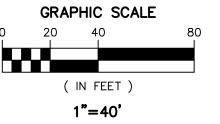
KEY MAP & SUMMARY OF QUANTITIES
PEDESTRIAN LIGHTING DESIGN PROJECT
CITY OF COCONUT CREEK
100% PLANS

G003

SHEET 3 OF 8

F-\22033 Hilton Rd Pedestrian Liabtina\CADD\11GHTING PLAN dwa - Monday October 17, 2022 5:18:09 PM





RODOLFO HOYOS P.E. LICENSE NO. 47056 DATE:

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LIGHTING PLAN 2
PEDESTRIAN LIGHTING DESIGN PROJECT
CITY OF COCONUT CREEK
100% PLANS

Date: August 31, 2022
DESIGN: DRAWN: CHECK:
RUDY AS HM

E002

SHEET 5 OF 8

F:\22033 Hilton Rd. Pedestrian Lighting\CADD\LIGHTING PLAN.dwg - Monday, October 17, 2022 5:18:09 PM

RODOLFO HOYOS

P.E. LICENSE NO. 47056

DATE:

SHEET 8 OF 8

33 Hilton Rd. Pedestrian Lighting\CADD\ELECTRICAL DETAILS.dwg - Monday, November 7, 2022 9:46:53 AM