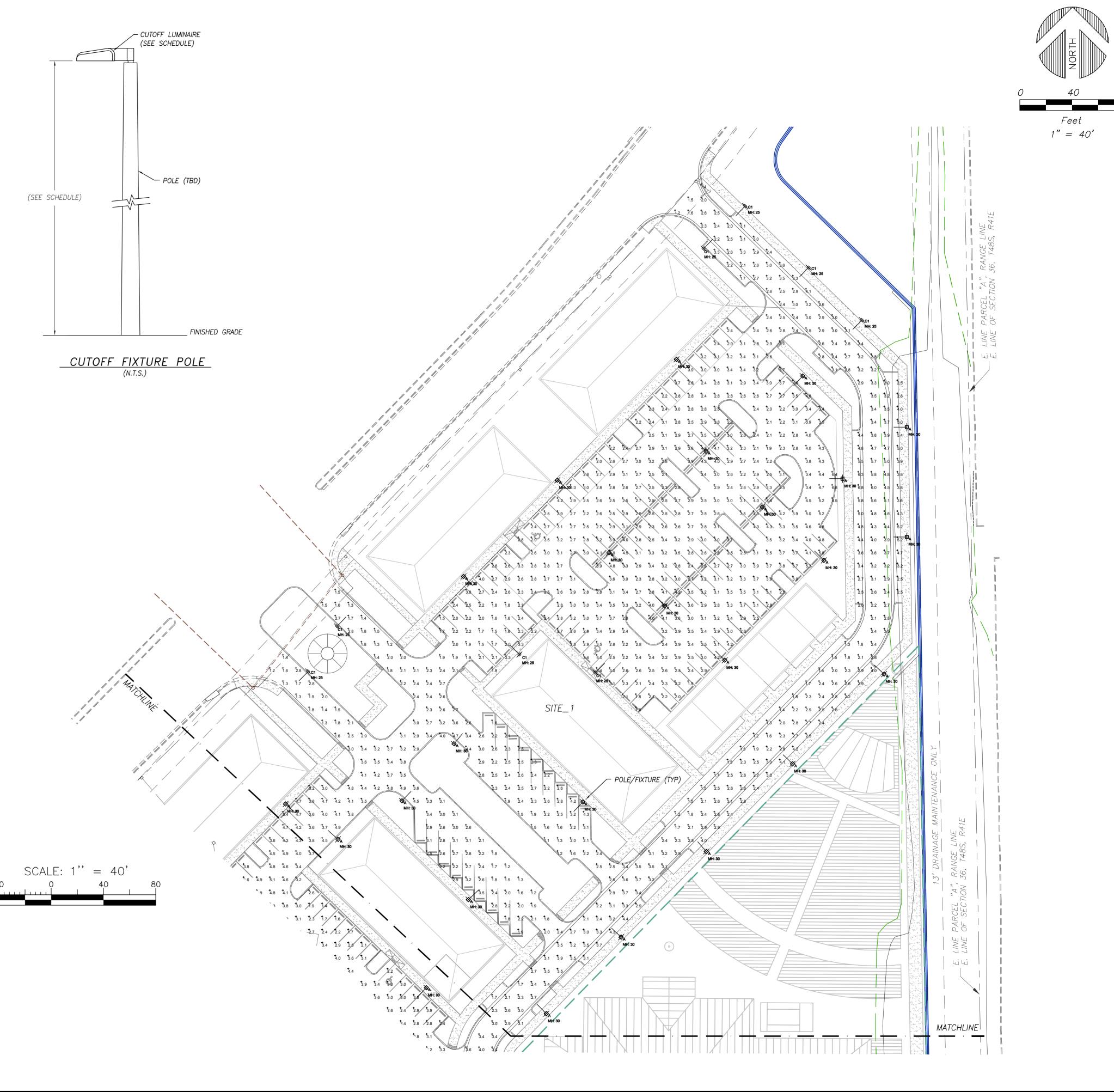


Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
•	117	Α	SINGLE	38000	0.684	AS2 400M SR3 (PULSE START)
1 1	12	В	BACK-BACK	38000	0.684	(2) AS2 400M SR3 @180
1	55	C1	SINGLE	25000	0.684	AS2 250M SR3 HS (PULSE START)

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Max/Min	
Site_1	Illuminance	Fc	3.14	8.3	1.1	7.55	
Site_2	Illuminance	Fc	3.03	5.8	1.0	5.80	
Site_3	Illuminance	Fc	3.10	8.4	1.0	8.40	
Site_4	Illuminance	Fc	2.86	7.9	1.1	7.18	
Site_5	Illuminance	Fc	2.90	8.2	1.0	8.20	

	LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURER / CATALOG NO.	MOUNTING	LAMP	VOLT	REMARKS				
Α	LITHONIA: AERIS CUTOFF AS2.400M.SR3.*.SCWA.*	30' AFG (POLE TOP)	400W PSMH	TBD	* VOLTAGE, FINISH & POLE TO BE DETERMINED				
В	LITHONIA: AERIS CUTOFF (2) AS2.400M.SR3.*.SCWA.* @180	30' AFG (POLE TOP)	(2) 400W PSMH		* VOLTAGE, FINISH & POLE TO BE DETERMINED				
С	LITHONIA: AERIS CUTOFF AS2.250MH.SR3.*.SCWA.*.HS	25' AFG (POLE TOP)	250W PSMH	,	* VOLTAGE, FINISH & POLE TO BE DETERMINED, HOUSE SIDE SHIELD				

- 1. CALCULATION POINTS ARE IN THE CENTER OF A 10' x 10' GRID IN A HORIZONTAL PLANE AT GRADE WITH METERS FACING UP.
- 2. ALL CALCULATIONS ARE MAINTAINED ILLUMINATION VALUES AND INCLUDE LIGHT LOSS
- DEPRECIATION FACTORS FOR DIRT, LAMP LUMENS AND TILT (IF APPLICABLE).
- 3. CALCULATIONS DO NOT CONSIDER THE EFFECT OF TREES AND OTHER LANDSCAPING, ETC. 4. THIS PHOTOMETRIC PLAN IS FOR SITE APPROVAL AND IS NOT INTENDED AS AN ELECTRICAL
- CONSTRUCTION DRAWING. 5. THE SYMBOL FOR POLE & FIXTURE IS SHOWN LARGER THAN ACTUAL FOR CLARITY.
 6. LIGHTING STANDARDS TO WITHSTAND WIND LOADING PER FLORIDA BUILDING CODE.
- 7. ILLUMINATION LEVELS ARE PER CITY OF MARGATE CODE (LEVEL 1), 1.0 FC MINIMUM AND
- MAX:MIN UNIFORMITY OF 10:1.
- 8. CALCULATIONS ARE THE PRODUCT OF THE FIXTURES AND LOCATIONS INDICATED; CHANGES AND SUBSTITUTIONS MAY AFFECT LIGHTING LEVELS AND WILL REQUIRE RE-SUBMISSION AND APPROVAL OF PHOTOMETRIC CALCULATIONS.



Photometric data provided by the lighting manufacturer. Ballbé & Associates makes no warranty, either expressed or implied, as to the accuracy of the photometric data, nor shall Ballbé & Associates be liable for the use of such data.

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\ <u>p</u>	NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION	Checked	

ned by: <u>V.J.F.</u> Date: <u>3/2017</u> n by: <u>V.J.F.</u> Date: <u>3/2017</u> ked by: ______ Date: _____



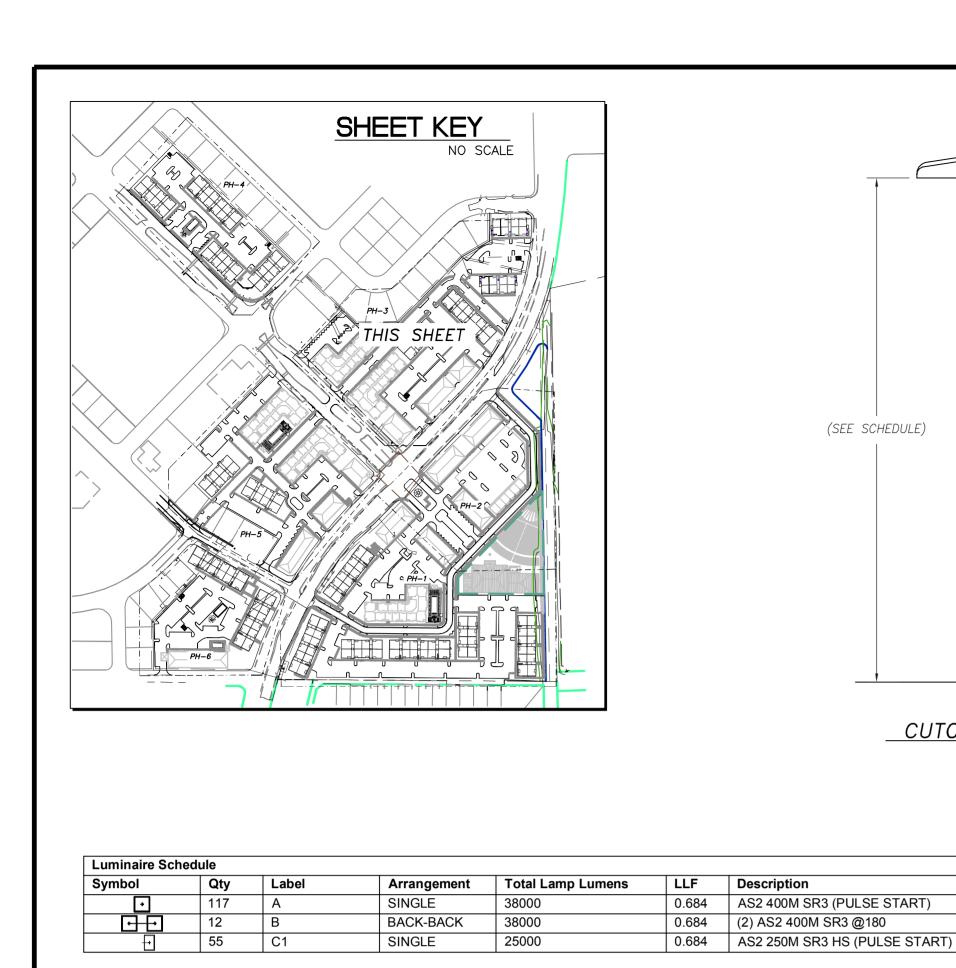
2737 Northeast 30th Place Fort Lauderdale, Florida 33306 Phone: (954) 491-7811 **Authorization No. EB-26343**

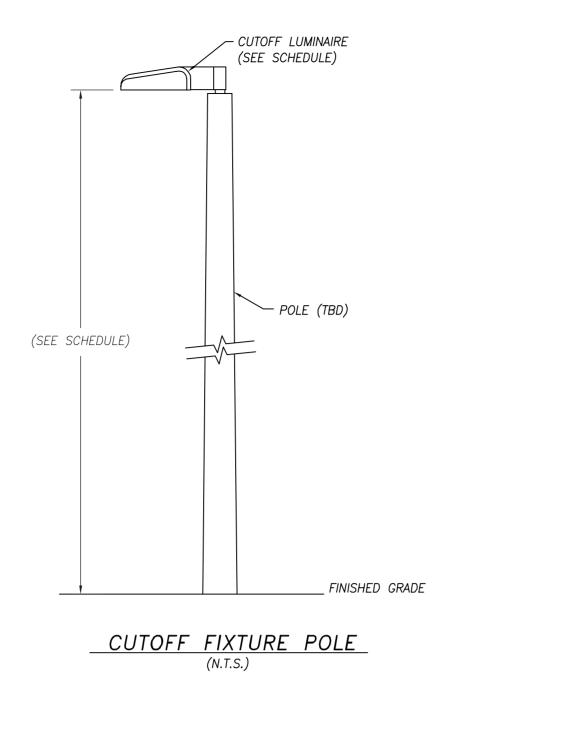
Electrical Engineer:	Vernon Jay	/ Franke
	Date	e: <u>3/15/17</u>
Registered Engineer Nur State of Florida	mber:	49466

Project Number: PARKING LOT LIGHTING PHOTOMETRIC PLAN 201707 MARGATE CITY CENTER Sheet Number:

NEW URBAN COMMUNITIES

PH-2





CUTOFF LUMINAIRE (SEE SCHEDULE)	LOT 10
	LOT 9
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
(SEE SCHEDULE)	LOT 8 MN; 25 3.3 3.1 2,4 4 4 2 3.9 3.2 3.0 2.9 2.7 2.6 2.0 2.8 2.4 1.9 2.4 2.4 3.0 3.6 3.5 3.1 2.8 3.2 3.0
	22 18 18 22 1.8 1.9 1.5 1.7 18 23 2.4 2.3 2.5 2.1 2.5 2.3 2.5 2.1 2.5 2.3 2.5 2.1 2.5 2.3 2.5 2.1 2.5 2.3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
	LOT 7 19 22 23 16 16 18 1.8 2.1 1.9 1.9 2.5 2.5 2.7 2.5 2.3 2.9 3.0 2.3 2.4 2.0 2.1 1.8 1.4 1.7 1.6 2.3 3.4 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 2.8 3.1 3.3 3.6 2.7 2.0 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6
FINISHED GRADE	LOT 6
CUTOFF FIXTURE POLE (N.T.S.)	28 3.0 26 26 22 3.1 28 2.9 2.7 2.8 29 3.0 2.3 2.7 3.5 29 3.0 3.3 3.2 3.5 31 28 2.9 3.0 3.3 3.2 3.5
	LOT 3 LOT 3 LOT 3 LOT 3 LOT 3 LOT 3
LLF Description 0.684 AS2 400M SR3 (PULSE START) 0.684 (2) AS2 400M SR3 @180	LOT 4 SITE_4 SITE_4 SITE_4

Calculation S		1				
Label	CalcType	Units	Avg	Max	Min	Max/Min
Site_1	Illuminance	Fc	3.14	8.3	1.1	7.55
Site_2	Illuminance	Fc	3.03	5.8	1.0	5.80
Site_3	Illuminance	Fc	3.10	8.4	1.0	8.40
Site_4	Illuminance	Fc	2.86	7.9	1.1	7.18

	LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER / CATALOG NO.	MOUNTING	LAMP	VOLT	REMARKS			
А	LITHONIA: AERIS CUTOFF AS2.400M.SR3.*.SCWA.*	30' AFG (POLE TOP)	400W PSMH	TBD	* VOLTAGE, FINISH & POLE TO BE DETERMINED			
В	LITHONIA: AERIS CUTOFF (2) AS2.400M.SR3.*.SCWA.* @180	30' AFG (POLE TOP)	(2) 400W PSMH		* VOLTAGE, FINISH & POLE TO BE DETERMINED			
С	LITHONIA: AERIS CUTOFF AS2.250MH.SR3.*.SCWA.*.HS	25' AFG (POLE TOP)	250W PSMH	,	* VOLTAGE, FINISH & POLE TO BE DETERMINED, HOUSE SIDE SHIELD			

2.90 8.2 1.0

PHOTOMETRIC NOTES:

Illuminance

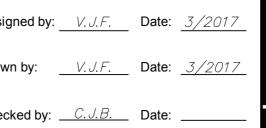
Site_5

- 1. CALCULATION POINTS ARE IN THE CENTER OF A 10' x 10' GRID IN A HORIZONTAL PLANE
- AT GRADE WITH METERS FACING UP. 2. ALL CALCULATIONS ARE MAINTAINED ILLUMINATION VALUES AND INCLUDE LIGHT LOSS DEPRECIATION FACTORS FOR DIRT, LAMP LUMENS AND TILT (IF APPLICABLE).
- 3. CALCULATIONS DO NOT CONSIDER THE EFFECT OF TREES AND OTHER LANDSCAPING, ETC.
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- 5. THE SYMBOL FOR POLE & FIXTURE IS SHOWN LARGER THAN ACTUAL FOR CLARITY. 6. LIGHTING STANDARDS TO WITHSTAND WIND LOADING PER FLORIDA BUILDING CODE.
- 7. ILLUMINATION LEVELS ARE PER CITY OF MARGATE CODE (LEVEL 1), 1.0 FC MINIMUM AND
- MAX:MIN UNIFORMITY OF 10:1.
- 8. CALCULATIONS ARE THE PRODUCT OF THE FIXTURES AND LOCATIONS INDICATED; CHANGES AND SUBSTITUTIONS MAY AFFECT LIGHTING LEVELS AND WILL REQUIRE RE—SUBMISSION AND APPROVAL OF PHOTOMETRIC CALCULATIONS.

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4.1 3.4 3.9 4.2 4.0 4.	0 52 79 5.6 3.7 2.9 1.9		3.2 3.6 3.3 1/8		6 20 3.1	3 .5 3 .1 2 .5 2 .4
14.0 13.9 13.6 13.7 14.0 13.7 15.9 15.6 15.7 14.0 15.7 15.9 15.6 15.7 15.9 15.6 15.7 15.9 15.6 15.7 15.9 15.6 15.7 15.9 15.9 15.6 15.7 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9	57 63 5.5 3.6 2.5 2.2		\$.1 \$.1 \$.3 \$2.9	*/	1.6 1.9 2.3 2.9	3.6 3.5
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MH 250 5-4 2.6 3.4 3.4	12/	3.3 3.1 3.2 2.	9 25		1.6 1.9 2.0 1.7 1.7 2.1 2.9 34	6.3 6.1 4.6
8.4 2.8 \$2	SITE_4	3.0 2.9 2.8 3.1 2			2.3 2.5 2.6 2.1 18 3.8	3.0 4.0 3.9 3.7
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		3.4 3.5 3.6 MH: 25			3.6 5.1 5.8 37 2.5 2.6 1.9	1.7 1.9 2.0
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Photometric data provided by the lighting manufacturer. Ballbé & Associates makes no warranty, either expressed or implied, as to the accuracy of the photometric data, nor shall Ballbé & Associates be liable for the use of such data.

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2737 Northeast 30th Place Fort Lauderdale, Florida 33306 Phone: (954) 491-7811 **Authorization No. EB-26343**

Electrical Engineer:	Vernon Jay Franke
	Date: <u>3/15/17</u>

49466

Registered Engineer Number:

State of Florida

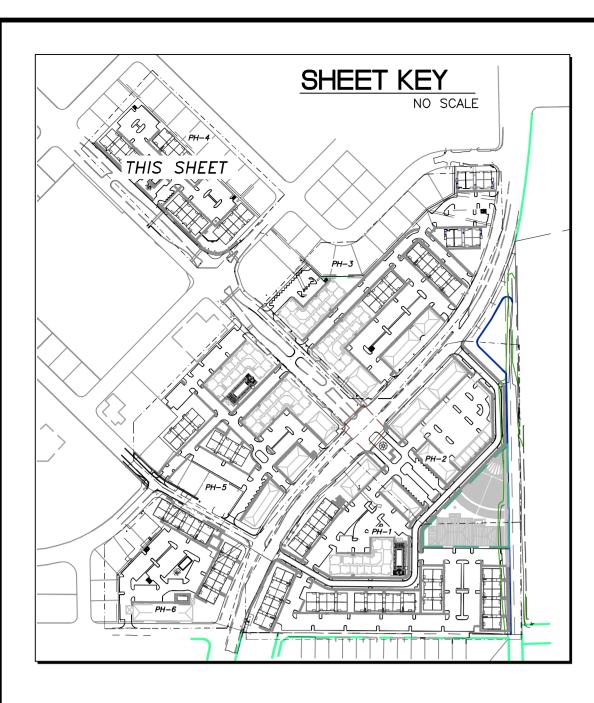
PARKING LOT LIGHTING PHOTOMETRIC PLAN					
MARGATE CITY CENTER					

Sheet Number: MARGAIL CIII CENIER PH-3NEW URBAN COMMUNITIES

Project Number:

201707

1" = 40'

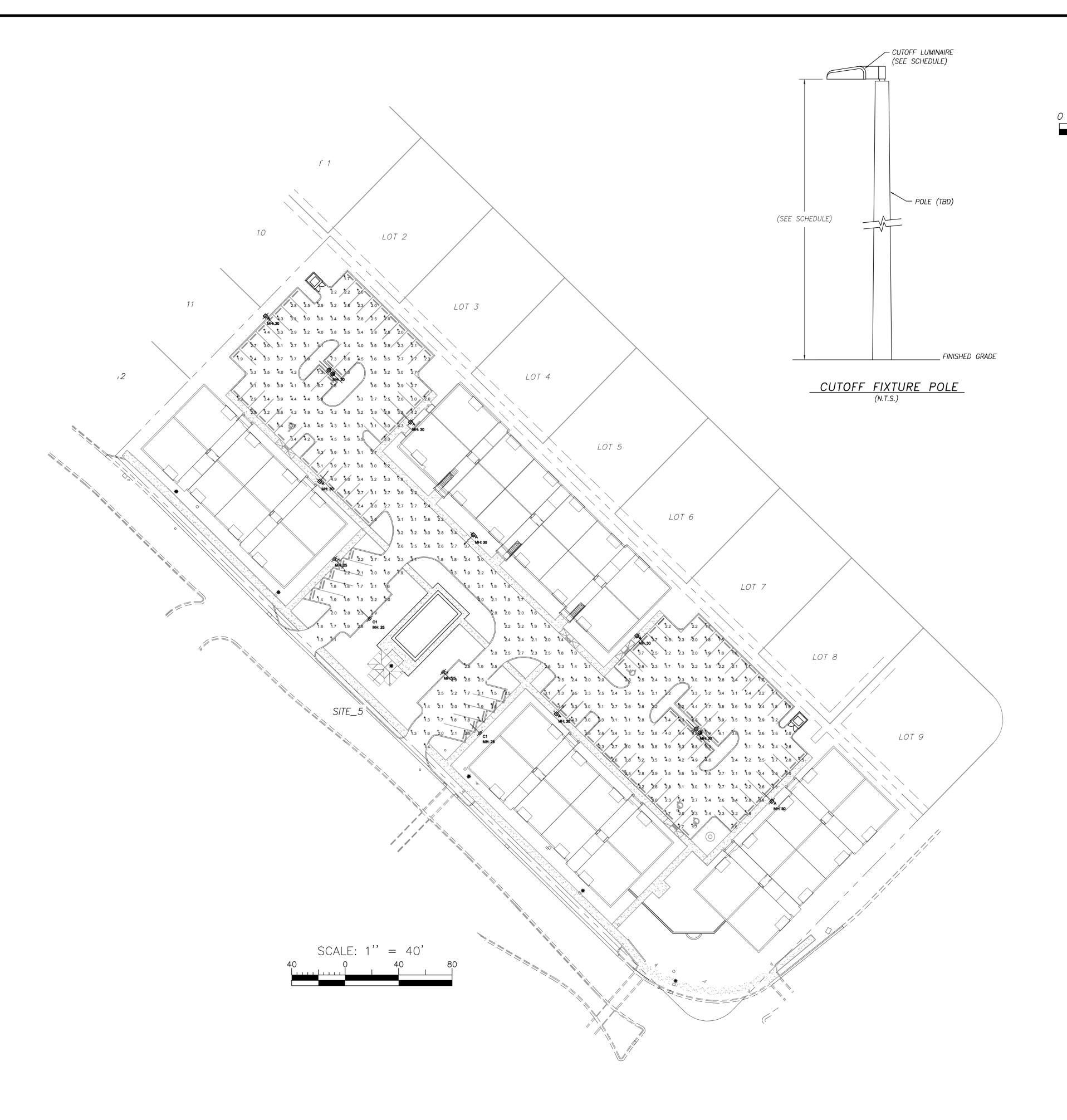


Luminaire Schedule										
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description				
•	117	A	SINGLE	38000	0.684	AS2 400M SR3 (PULSE START)				
<u> </u>	12	В	BACK-BACK	38000	0.684	(2) AS2 400M SR3 @180				
- FI	55	C1	SINGLE	25000	0.684	AS2 250M SR3 HS (PULSE START)				

Calculation Sun	nmary					
Label	CalcType	Units	Avg	Max	Min	Max/Min
Site_1	Illuminance	Fc	3.14	8.3	1.1	7.55
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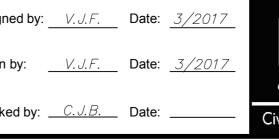
	LIGHTING F	FIXTURE SO	CHEDUL	E	
TYPE	MANUFACTURER / CATALOG NO.	MOUNTING	LAMP	VOLT	REMARKS
Α	LITHONIA: AERIS CUTOFF AS2.400M.SR3.*.SCWA.*	30' AFG (POLE TOP)	400W PSMH	TBD	* VOLTAGE, FINISH & POLE TO BE DETERMINED
В	LITHONIA: AERIS CUTOFF (2) AS2.400M.SR3.*.SCWA.* @180	30' AFG (POLE TOP)	(2) 400W PSMH		* VOLTAGE, FINISH & POLE TO BE DETERMINED
С	LITHONIA: AERIS CUTOFF AS2.250MH.SR3.*.SCWA.*.HS	25' AFG (POLE TOP)	250W PSMH		* VOLTAGE, FINISH & POLE TO BE DETERMINED, HOUSE SIDE SHIELD

- 1. CALCULATION POINTS ARE IN THE CENTER OF A 10' x 10' GRID IN A HORIZONTAL PLANE
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2737 Northeast 30th Place Fort Lauderdale, Florida 33306 Phone: (954) 491-7811 Authorization No. EB-26343

Electrical Engineer:	Vernon Jay Franke
	Date: 3/15/17

49466

Registered Engineer Number:

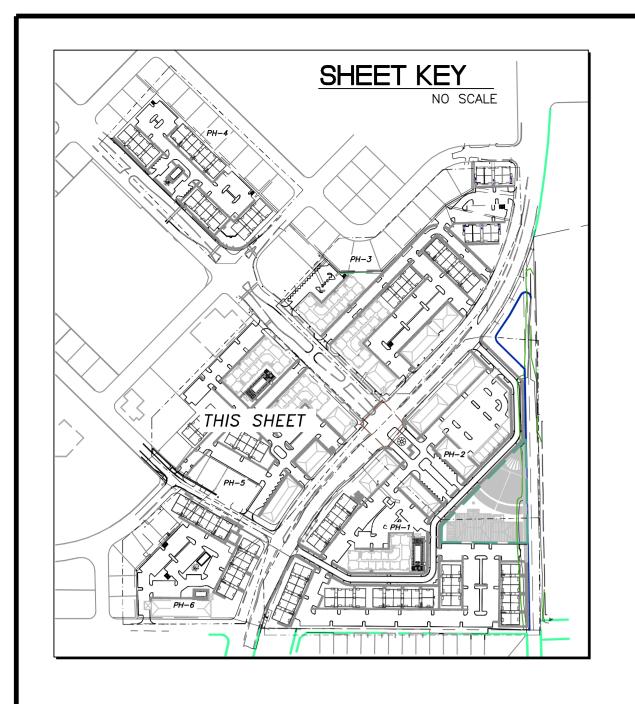
State of Florida

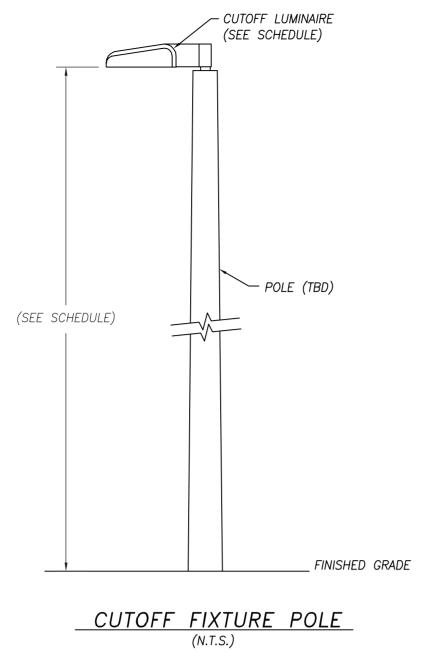
PARKING LOT LIGHTING PHOTOMETRIC PLAN	Project Number: 201707
MARGATE CITY CENTER	Sheet Number:

NEW URBAN COMMUNITIES

PH-4

1" = 40'





Luminaire Schedule										
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description				
•	117	A	SINGLE	38000	0.684	AS2 400M SR3 (PULSE START)				
	12	В	BACK-BACK	38000	0.684	(2) AS2 400M SR3 @180				
+	55	C1	SINGLE	25000	0.684	AS2 250M SR3 HS (PULSE START)				

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Max/Min		
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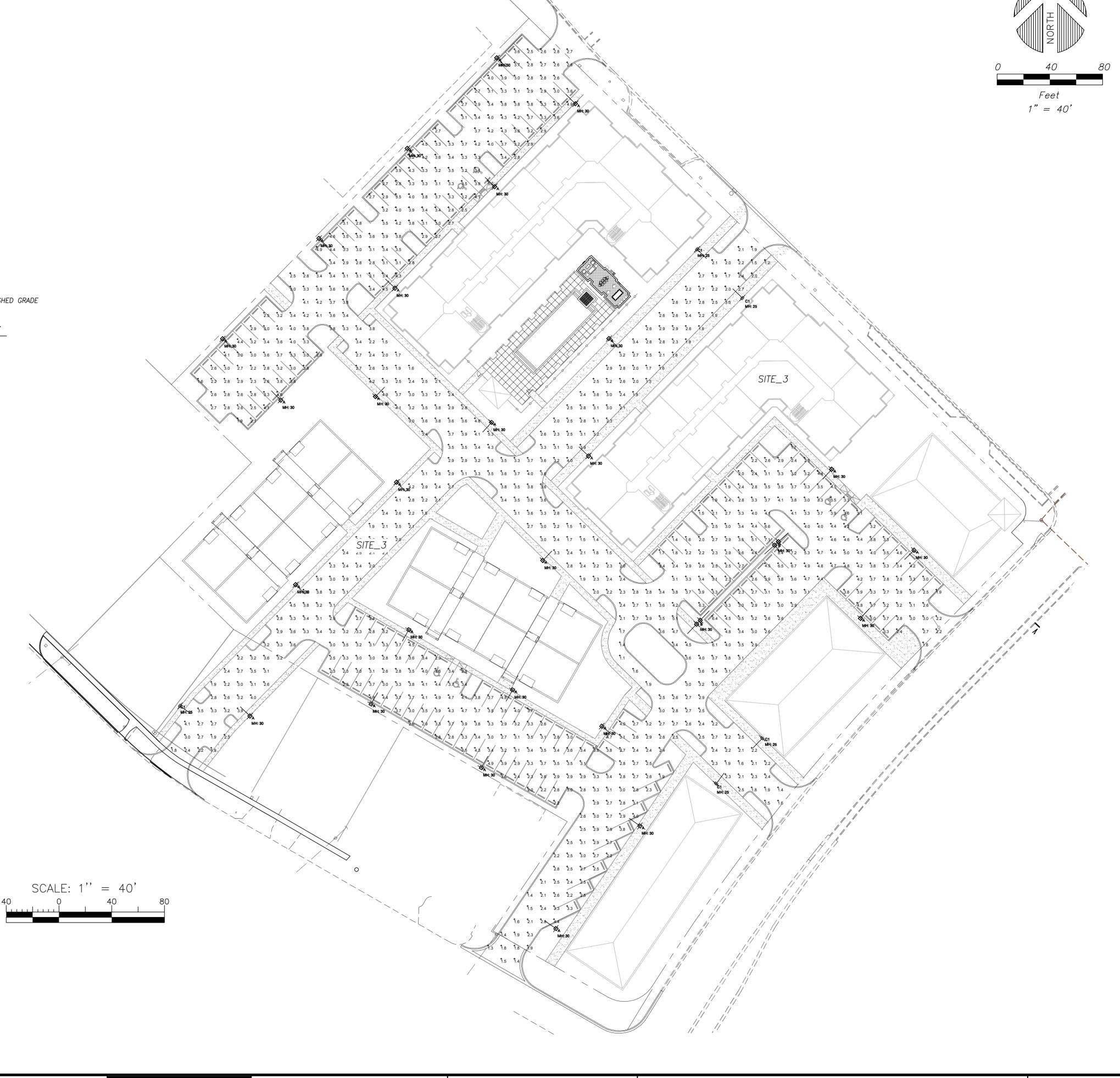
	LIGHTING	FIXTURE SO	CHEDUL	E	
TYPE	MANUFACTURER / CATALOG NO.	MOUNTING	LAMP	VOLT	REMARKS
А	LITHONIA: AERIS CUTOFF AS2.400M.SR3.*.SCWA.*	30' AFG (POLE TOP)	400W PSMH	TBD	* VOLTAGE, FINISH & POLE TO BE DETERMINED
В	LITHONIA: AERIS CUTOFF (2) AS2.400M.SR3.*.SCWA.* @180	30' AFG (POLE TOP)	(2) 400W PSMH		* VOLTAGE, FINISH & POLE TO BE DETERMINED
С	LITHONIA: AERIS CUTOFF AS2.250MH.SR3.*.SCWA.*.HS	25' AFG (POLE TOP)	250W PSMH	•	* VOLTAGE, FINISH & POLE TO BE DETERMINED, HOUSE SIDE SHIELD

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1	05/02/17	VJF	SITE REVISION, CALC GRID & POLES REVISED					Checked
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2737 Northeast 30th Place Fort Lauderdale, Florida 33306 Phone: (954) 491-7811 Authorization No. EB-26343

Electrical Engineer:	Vernon	Jay	Franke
		Date:	3/15/17
Registered Engineer Num		_ =	49466

State of Florida

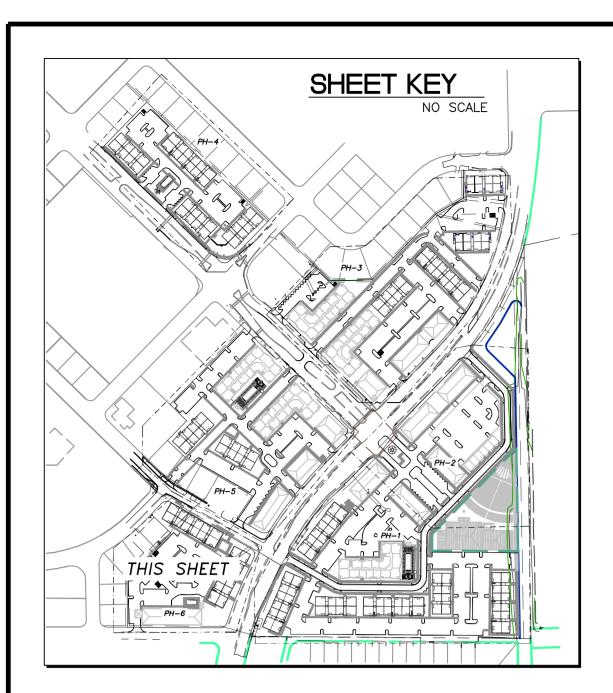
PARKING LOT LIGHTING PHOTOMETRIC PLAN

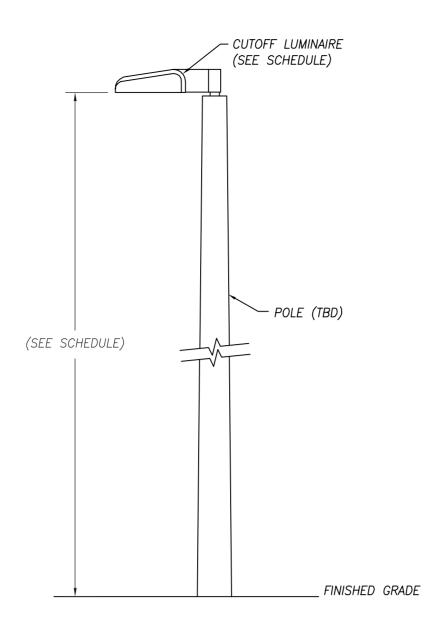
MARGATE CITY CENTER

NEW URBAN COMMUNITIES

Project Number:
201707

Sheet Number:
PH-5





CUTOFF FIXTURE POLE (N.T.S.)

	LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER / CATALOG NO.	MOUNTING	LAMP	VOLT	REMARKS			
Α	LITHONIA: AERIS CUTOFF AS2.400M.SR3.*.SCWA.*	30' AFG (POLE TOP)	400W PSMH	TBD	* VOLTAGE, FINISH & POLE TO BE DETERMINED			
В	LITHONIA: AERIS CUTOFF (2) AS2.400M.SR3.*.SCWA.* @180	30' AFG (POLE TOP)	(2) 400W PSMH		* VOLTAGE, FINISH & POLE TO BE DETERMINED			
С	LITHONIA: AERIS CUTOFF AS2.250MH.SR3.*.SCWA.*.HS	25' AFG (POLE TOP)	250W PSMH		* VOLTAGE, FINISH & POLE TO BE DETERMINED, HOUSE SIDE SHIELD			

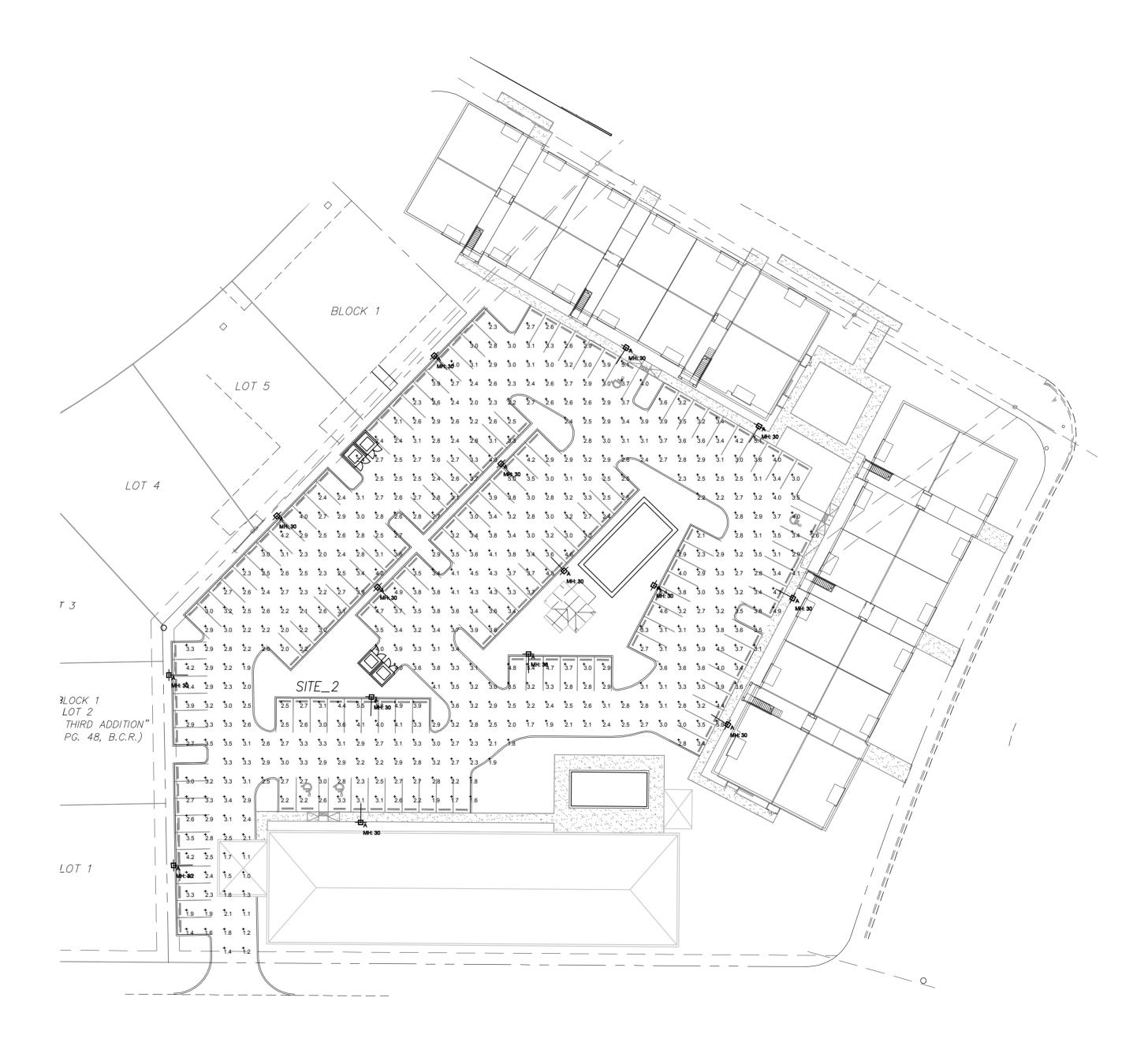
- 1. CALCULATION POINTS ARE IN THE CENTER OF A 10' \times 10' GRID IN A HORIZONTAL PLANE AT GRADE WITH METERS FACING UP.
- 2. ALL CALCULATIONS ARE MAINTAINED ILLUMINATION VALUES AND INCLUDE LIGHT LOSS
- DEPRECIATION FACTORS FOR DIRT, LAMP LUMENS AND TILT (IF APPLICABLE).

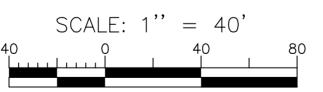
 3. CALCULATIONS DO NOT CONSIDER THE EFFECT OF TREES AND OTHER LANDSCAPING, ETC.

 4. THIS PHOTOMETRIC PLAN IS FOR SITE APPROVAL AND IS NOT INTENDED AS AN ELECTRICAL CONSTRUCTION DRAWING.
- 5. THE SYMBOL FOR POLE & FIXTURE IS SHOWN LARGER THAN ACTUAL FOR CLARITY.
 6. LIGHTING STANDARDS TO WITHSTAND WIND LOADING PER FLORIDA BUILDING CODE.
- 7. ILLUMINATION LEVELS ARE PER CITY OF MARGATE CODE (LEVEL 1), 1.0 FC MINIMUM AND MAX:MIN UNIFORMITY OF 10:1.
- 8. CALCULATIONS ARE THE PRODUCT OF THE FIXTURES AND LOCATIONS INDICATED; CHANGES AND SUBSTITUTIONS MAY AFFECT LIGHTING LEVELS AND WILL REQUIRE RE—SUBMISSION AND APPROVAL OF PHOTOMETRIC CALCULATIONS.

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	
•	117	Α	SINGLE	38000	0.684	AS2 400M SR3 (PULSE START)	
<u> </u>	12	В	BACK-BACK	38000	0.684	(2) AS2 400M SR3 @180	
1	55	C1	SINGLE	25000	0.684	AS2 250M SR3 HS (PULSE START)	

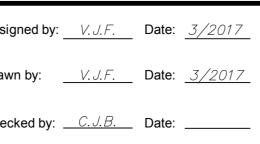
Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Max/Min
Site_1	Illuminance	Fc	3.14	8.3	1.1	7.55
Site_2	Illuminance	Fc	3.03	5.8	1.0	5.80
Site_3	Illuminance	Fc	3.10	8.4	1.0	8.40
Site_4	Illuminance	Fc	2.86	7.9	1.1	7.18
Site_5	Illuminance	Fc	2.90	8.2	1.0	8.20





Photometric data provided by the	lighting manufacturer.	Ballbé & Associates	makes no warranty,
either expressed or implied, as to	o the accuracy of the	photometric data, nor	shall Ballbé &
Associates be liable for the use	of such data.		

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Checked					SITE REVISION, CALC GRID & POLES REVISED	VJF	05/02/17	1	avie\
Checked	REVISION	BY	DATE	NO.	REVISION	BY	DATE	NO.	\D
	REVISION	BY	DATE	NO.			, ,	1 NO.	avie\Zona





2737 Northeast 30th Place
Fort Lauderdale, Florida 33306
Phone: (954) 491-7811
Authorization No. EB-26343

Electrical Engineer:	Vernon Jay F	- ranke
		7 /4 5 /4 7
Desistered Engineer Non		3/15/17

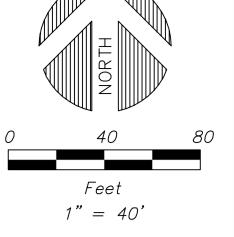
49466

Registered Engineer Number:

State of Florida

PARKING LOT LIGHTING PHOTOMETRIC PLAN				
MARGATE CITY CENTER				

NEW URBAN COMMUNITIES



Project Number:

201707

Sheet Number:

PH-6