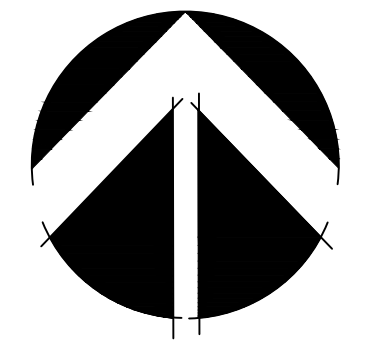
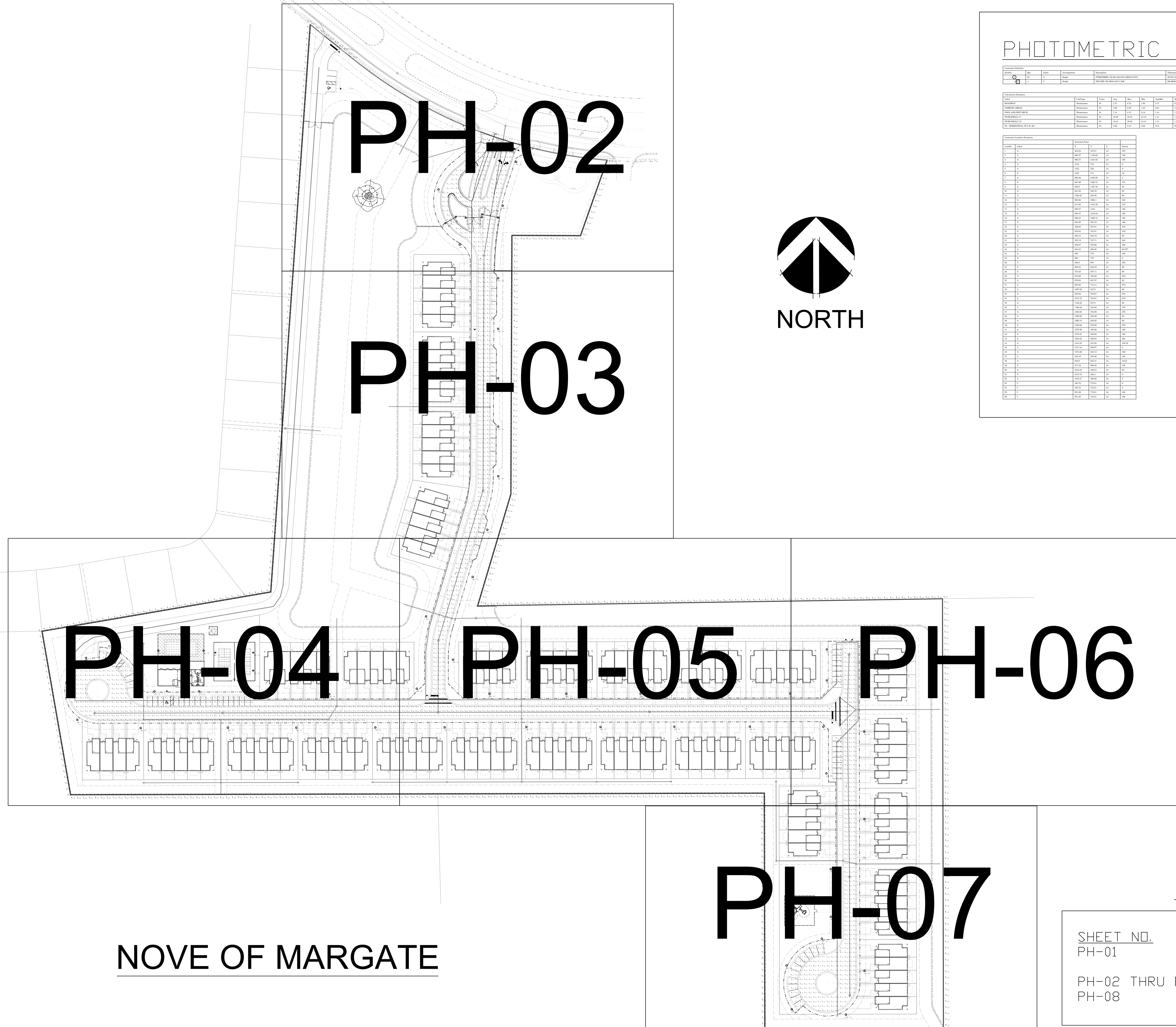


NOVE OF MARGATE

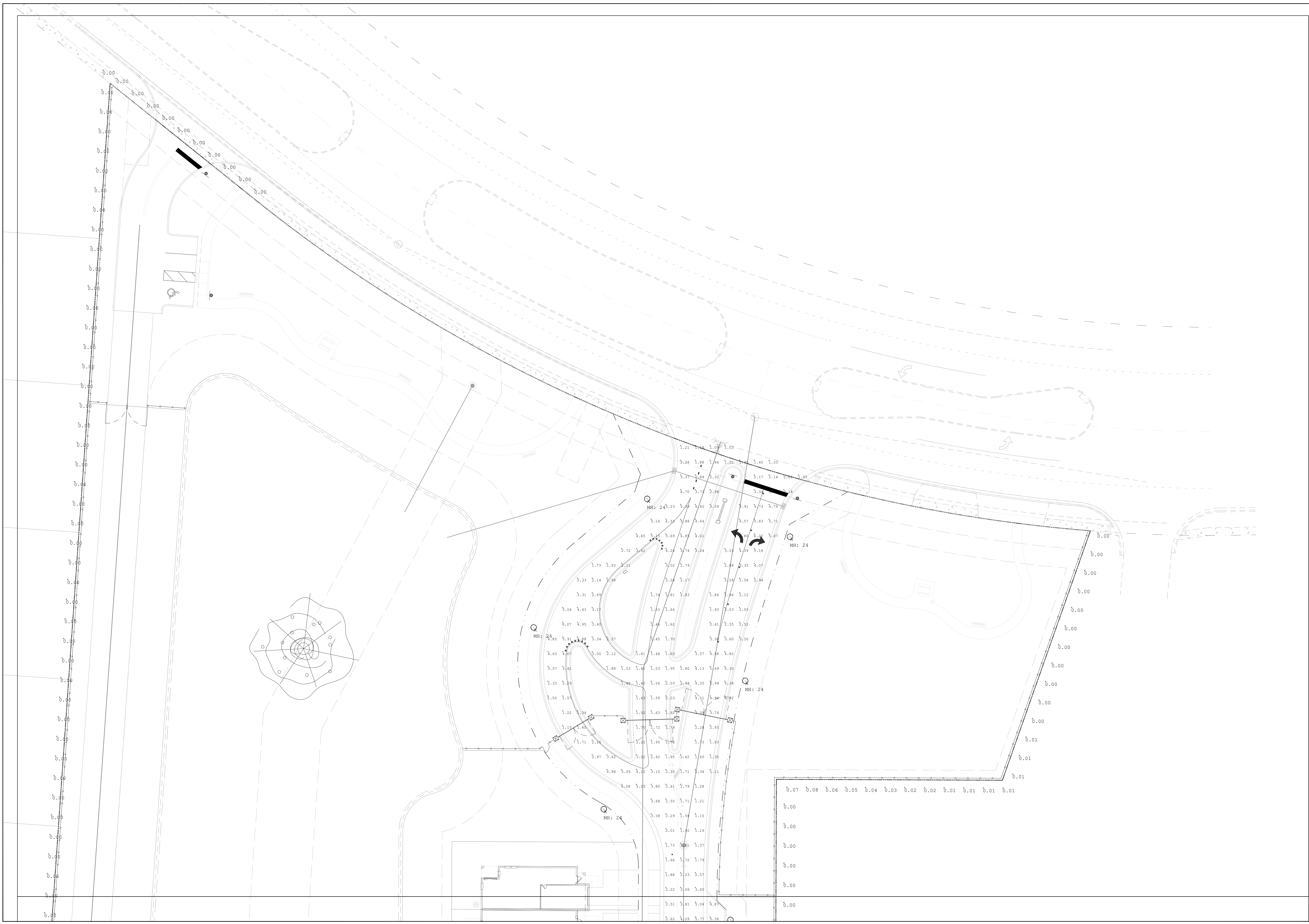


NORTH

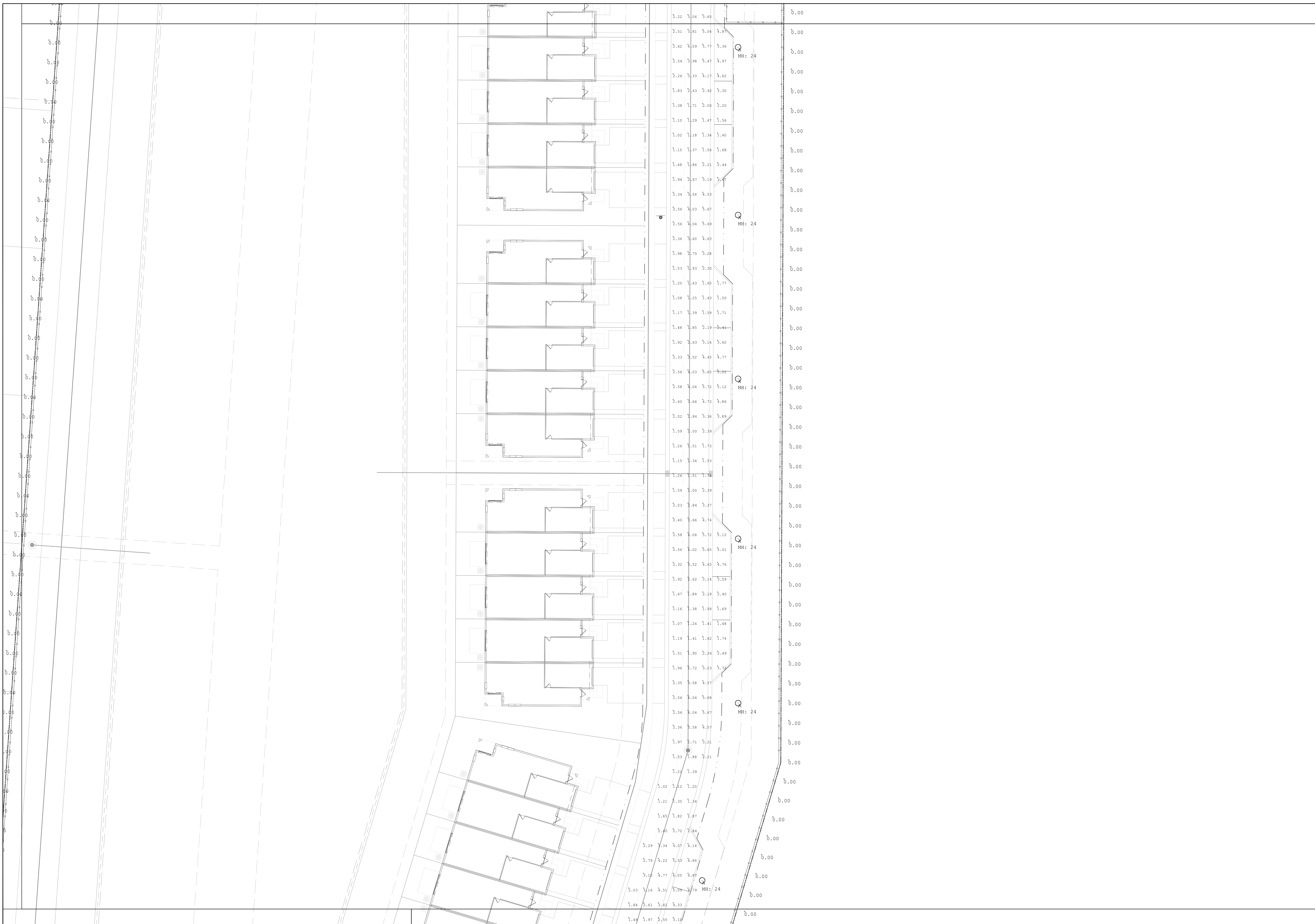
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Photometric Data		Photometric Data		Photometric Data		Photometric Data	
Zone	Value	Zone	Value	Zone	Value	Zone	Value
PH-02	100	PH-03	100	PH-04	100	PH-05	100
PH-06	100	PH-07	100				

<p>PROJECT: NOVE OF MARGATE MARGATE, FLORIDA</p>	<p>DESCRIPTION: INDEX SHEET & PHOTOMETRIC TABLE</p>	<p>SCALE: NTS</p>	<p>ELECTRICAL ENGINEER: WILLIAM P. NO, P.E. FLORIDA P.E. # 32026</p>		<p>10-06-2023 MP 08-06-2023 MP 11-04-2022 MP</p>
		<p>DESIGNED BY: SB DRAWN BY: MP CHECKED BY: WP</p>			
<p>SHEET NO. PH-01</p>		<p>DESCRIPTION INDEX SHEET & PHOTOMETRIC TABLE</p>		<p>DATE 09/20/2022</p>	
<p>PH-02 THRU PH-07 PH-08</p>		<p>PXP VALUES POLE AND FIXTURE DETAILS</p>		<p>PROJECT NO. M22035</p>	
<p>PH-01</p>		<p>SHEET NUMBER</p>		<p>DATE 11-04-2022</p>	

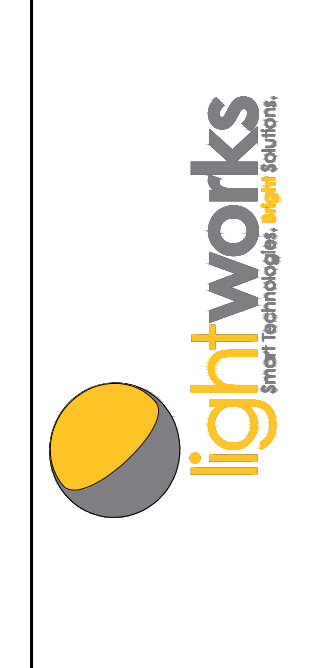


<p>PROJECT: NOVE OF MARGATE MARGATE, FLORIDA</p>		<p>DESCRIPTION: PXP VALUES</p>	
<p>DATE 09/20/2022</p>	<p>PROJECT NO. M22035</p>	<p>DESIGNED BY: SB</p>	<p>SCALE: 1" = 20'</p>
<p>SHEET NUMBER PH-02</p>	<p>REVISION</p>	<p>DRAWN BY: MP</p>	<p>ELECTRICAL ENGINEER: WILLIAM E. PINO, P.E. FLORIDA P.E. # 93726</p>
<p>BY</p>	<p>DATE</p>	<p>CHECKED BY: WP</p>	<p>THE SIGNATURE AND SEAL HEREBY AFFIXED BY THIS ENGINEER CERTIFIES COMPLIANCE ONLY OF THE METHOD AND INPUT DATA USED IN THE GENERATION OF THIS COMPUTER PRINTOUT.</p>
<p>MP</p>	<p>11-04-2022</p>	<p>1</p>	<p>10-06-2023</p>
<p>MP</p>	<p>08-06-2023</p>	<p>2</p>	<p>08-06-2023</p>
<p>MP</p>	<p>11-04-2022</p>	<p>1</p>	<p>10-06-2023</p>
<p>BY</p>	<p>DATE</p>	<p>NO.</p>	<p>REVISION</p>



THE SIGNATURE AND SEAL HEREBY AFFIXED BY THIS ENGINEER CERTIFIES COMPLIANCE ONLY OF THE METHOD AND INPUT DATA USED IN THE GENERATION OF THIS COMPUTER PRINTOUT.

10-06-2023	MP
08-06-2023	MP
11-04-2022	MP
	BY
	DATE
	REVISION
No.	



ELECTRICAL ENGINEER:
WILLIAM E. PNO, P.E.
FLORIDA P.E. # 20268

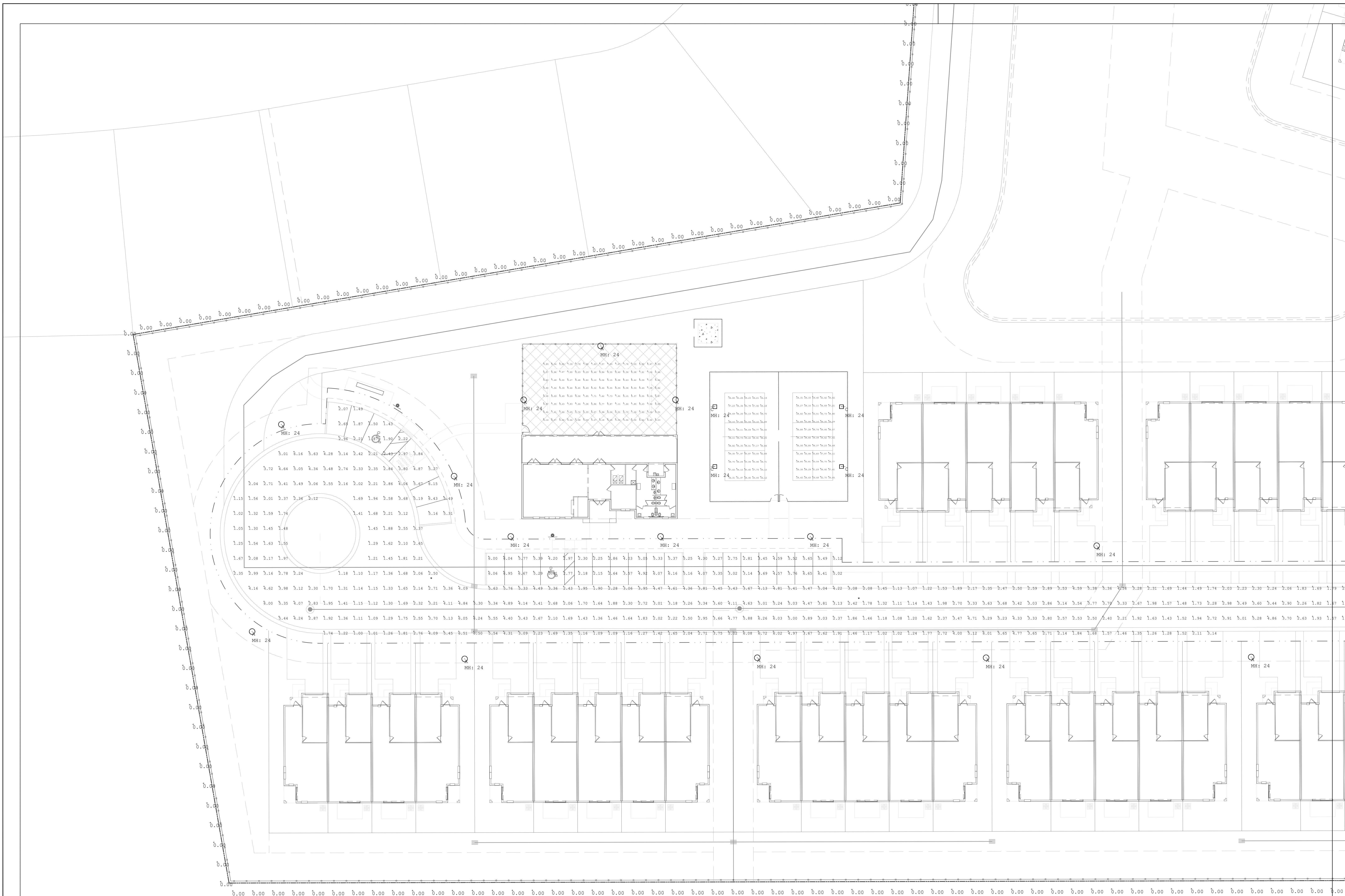
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DESIGNED BY: SB
DRAWN BY: MP
CHECKED BY: WP

DESCRIPTION:
PXP VALUES

PROJECT:
NOVE OF MARGATE
MARGATE, FLORIDA

DATE
09/20/2022
PROJECT NO.
M22035
SHEET NUMBER

PH-03



PROJECT:
NOVE OF MARGATE
MARGATE, FLORIDA

DESCRIPTION:
PXP VALUES

SCALE: 1" = 20'

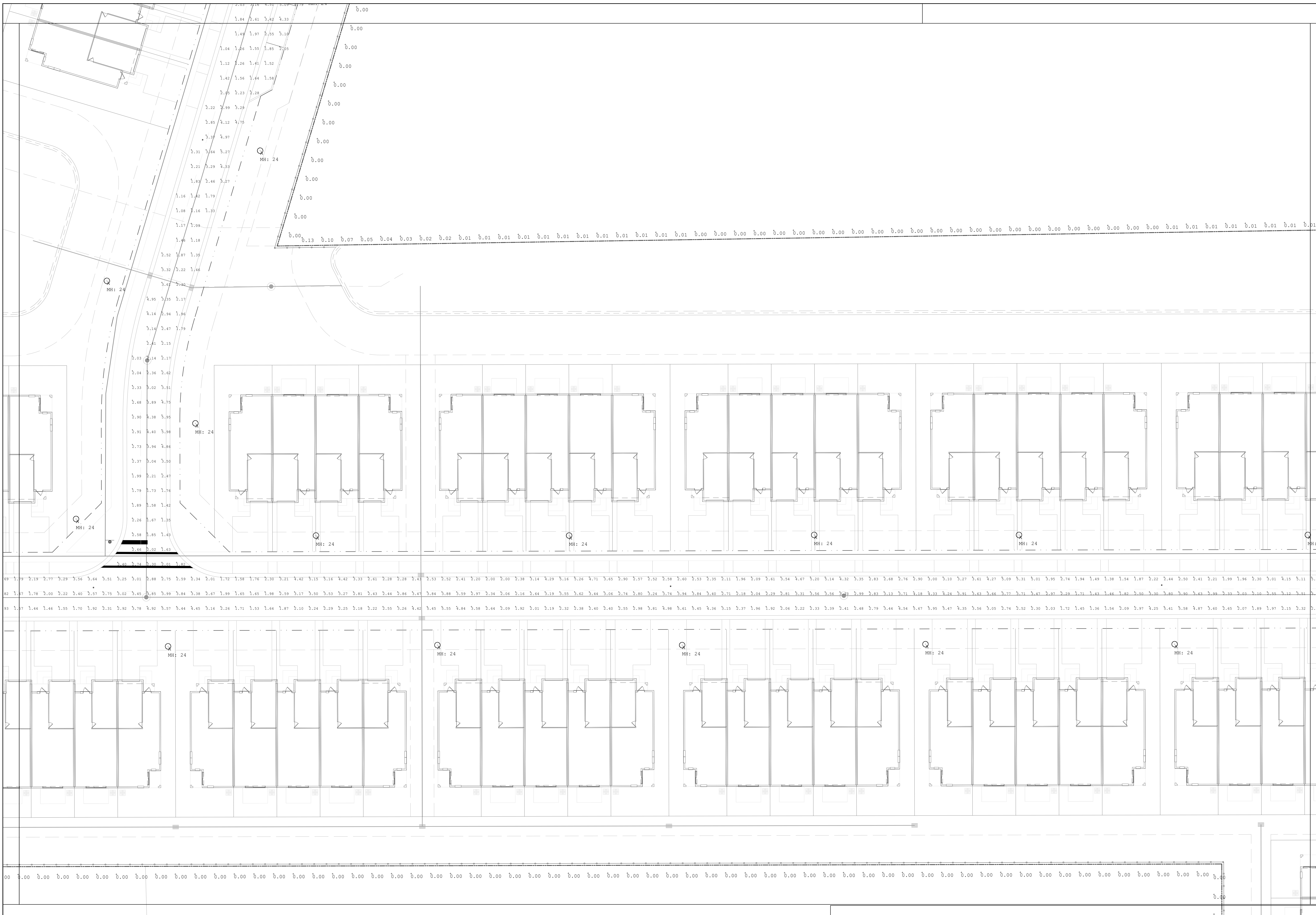
DESIGNED BY: SB
DRAWN BY: MP
CHECKED BY: WP

ELECTRICAL ENGINEER:
WILLIAM E. PNO, P.E.
FLORIDA P.E. # 20268

lightworks
Engineering & Architecture

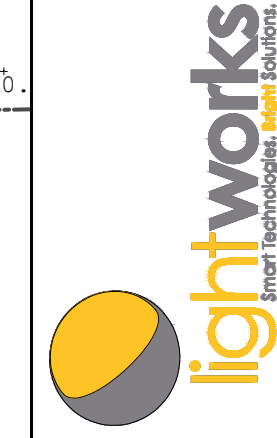
THE SIGNATURE AND SEAL HEREBY AFFIXED BY THIS ENGINEER CERTIFIES COMPLIANCE ONLY OF THE METHOD AND INPUT DATA USED IN THE GENERATION OF THIS COMPUTER PRINTOUT.

10-06-2023	MP	REVIS	DATE
08-06-2023	MP	REVIS	DATE
11-04-2022	MP	REVIS	DATE
		REVISION	DATE



THE SIGNATURE AND SEAL HEREBY AFFIXED BY THIS ENGINEER CERTIFIES COMPLIANCE ONLY OF THE METHOD AND INPUT DATA USED IN THE GENERATION OF THIS COMPUTER PRINTOUT.

3	REVISED SITE PLAN	10-06-2023	MP
2	REVISED FIXTURE	08-06-2023	MP
1	REVISED BASEMAP	11-04-2022	MP



ELECTRICAL ENGINEER:
WILLIAM E. PNO, P.E.
FLORIDA P.E. # 20206

SCALE: 1" = 20'
DESIGNED BY: SB
DRAWN BY: MP
CHECKED BY: WP

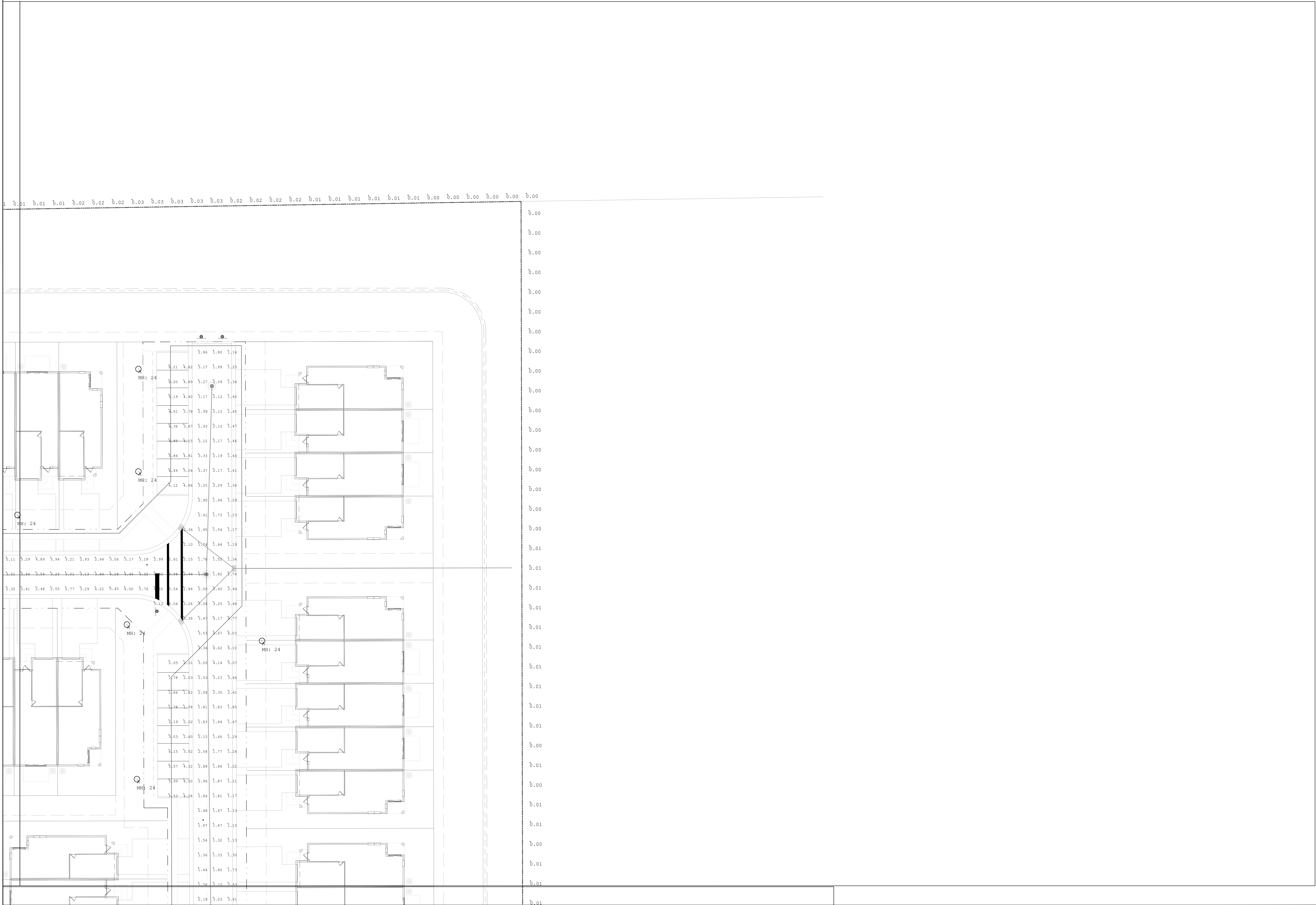
DESCRIPTION:
PXP VALUES

PROJECT:
NOVE OF MARGATE
MARGATE, FLORIDA

DATE
09/20/2022
PROJECT NO.
M22035
SHEET NUMBER

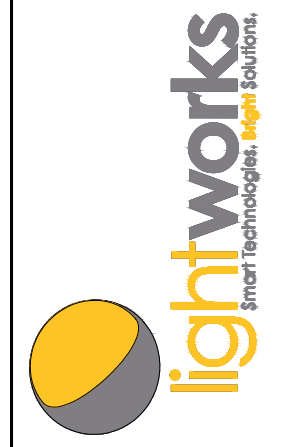
PH-05

No.	REVISION	DATE	BY



THE SIGNATURE AND SEAL HEREBY AFFIXED BY THIS ENGINEER CERTIFIES COMPLIANCE ONLY OF THE METHOD AND INPUT DATA USED IN THE GENERATION OF THIS COMPUTER PRINTOUT.

3	REVISED SITE PLAN	10-06-2023	MP
2	REVISED FIXTURE	08-06-2023	MP
1	REVISED BASEMAP	11-04-2022	MP
No.	REVISION	DATE	BY



ELECTRICAL ENGINEER:
WILLIAM E. PNO, P.E.
FLORIDA P.E. # 20268

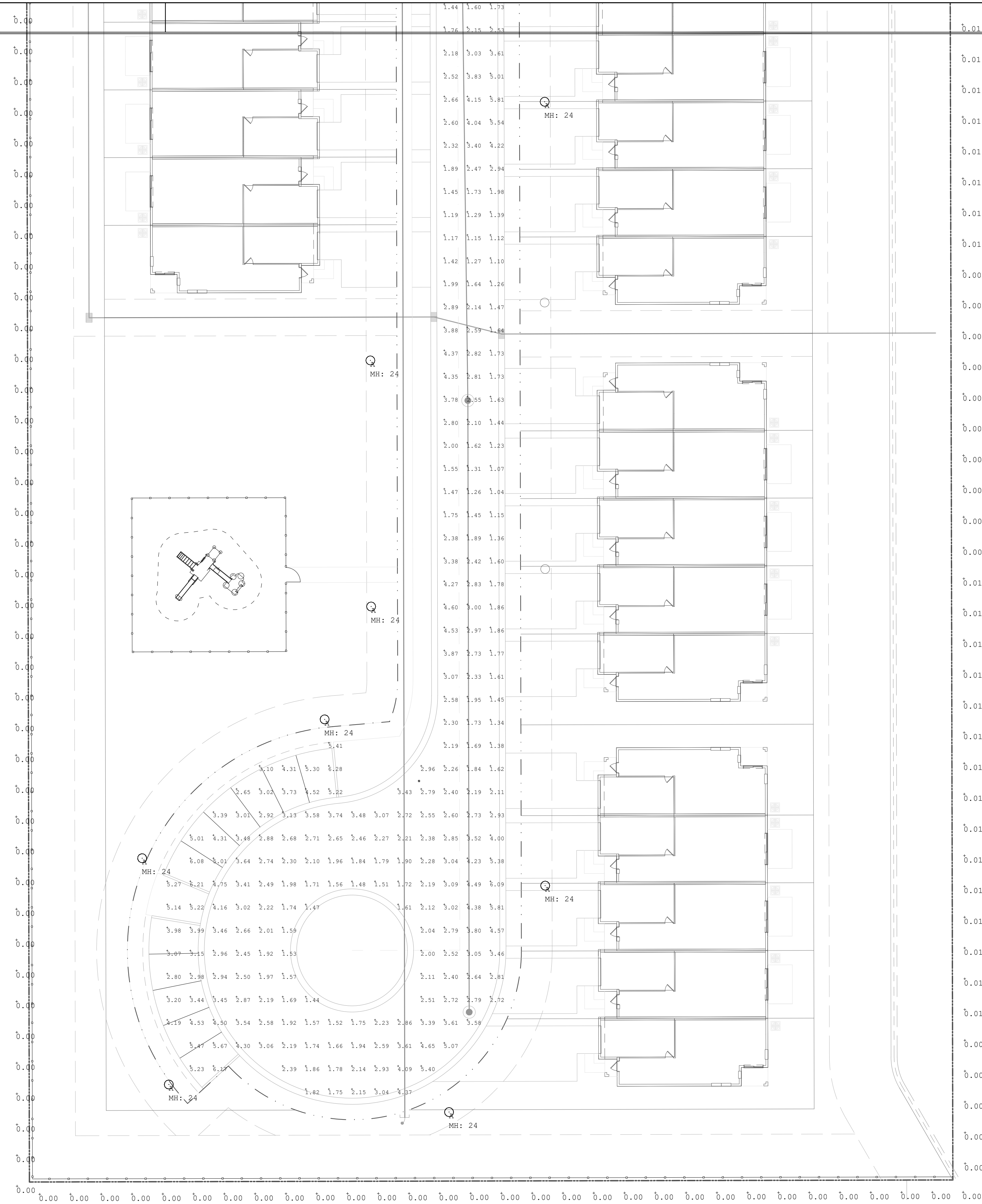
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DESIGNED BY: SB
DRAWN BY: MP
CHECKED BY: WP

DESCRIPTION:
PXP VALUES

PROJECT:
NOVE OF MARGATE
MARGATE, FLORIDA

DATE
09/20/2022
PROJECT NO.
M22035
SHEET NUMBER
PH-06

SEAL



PH-07

SHEET NUMBER

PROJECT NO. M22035

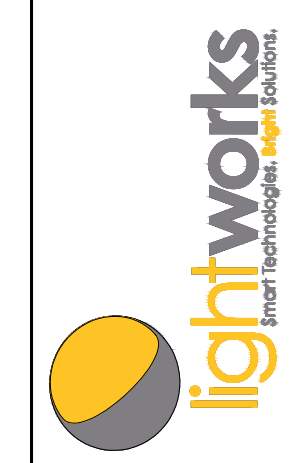
DATE 09/20/2022

PROJECT: NOVE OF MARGATE
MARGATE, FLORIDA

DESCRIPTION:
PXP VALUES

SCALE: 1" = 20'
DESIGNED BY: SB
DRAWN BY: MP
CHECKED BY: WP

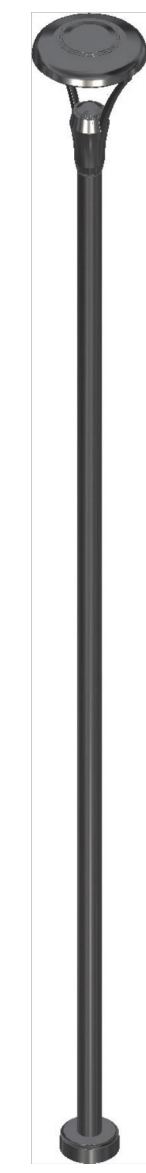
ELECTRICAL ENGINEER:
WILLIAM E. PNO, P.E.
FLORIDA P.E. # 20268



No.	REVISION	DATE	BY
3	REVISED SITE PLAN	10-06-2023	MP
2	REVISED FIXTURE	08-06-2023	MP
1	REVISED BASEMAP	11-04-2022	MP

THE SIGNATURE AND SEAL HEREBY AFFIXED BY THIS ENGINEER CERTIFIES COMPLIANCE ONLY OF THE METHOD AND INPUT DATA USED IN THE GENERATION OF THIS COMPUTER PRINTOUT.

TYPE A FIXTURE AND POLE



555 Lawrence Avenue | Roselle, IL 60712 | p 847.588.3400 | www.sternberglighting.com
CONCEPTUAL ASSEMBLY DRAWING, SUBJECT TO ENGINEERING VERIFICATION BY THE FACTORY

PT FIXTURE: SL760
The Solara® Post Top Luminaire's modern geometric design complements a diverse assortment of contemporary architectural settings. Its urbanesque yoke design offers not only aesthetic beauty, durability and optical efficiency, but takes street, area, and medium mount lighting to another level. The Solara SL760 is well suited for all roadway, site and pedestrian environments.

PT FIXTURE LIGHT SOURCE: -40L40T4-MDL016
Array: 40 LEDs, 179W for MD_016 (40L)
Color Temp: 4000K (40)
Distribution: Type A (T4)
Driver: Multi-Volt Dimmable Low-Range Driver - 120-277V, 160mA (MDL016)

PT FIXTURE OPTIONS: -SV1-BLOC

Lens: Flat Soft Vue Light Diffused Acrylic (SV1)
Houseside Shield Yes (BLOC)
or Back Lighting
Optical Control: Yes (BLOC)

POLE: 550P521.5-250

The 12" diameter cast 306 aluminum alloy base and aluminum shaft shall be a one-piece construction. For fixtures using remote ballasts or drivers, the servicing of these components requires pulling the pole. The pole shall be U.L. or E.T.L. listed in U.S. and Canada. All pole heights to have a tolerance of ± 2".

Model: 550 Concord (550)
Shaft Type: Smooth Straight 6 Inch, 6061-T6 Aluminum Alloy (P5)
Height: 21'-6" (12' 5")
Gauge: 0.250" (250)

FINISH: /BKT

Assembly shall be powder coated to Black Textured finish. Prior to coating, the assembly shall be chemically cleaned and etched in a 5-stage washing system which includes alkaline cleaning, rinsing, phosphoric etching, reverse osmosis water rinsing, and non-chrome sealing to ensure corrosion resistance.

Wind Load Evaluation

This assembly, as configured, MEETS AASHTO requirements for wind loading
Wind Speed: 160 mph
Gust Factor: 1.14

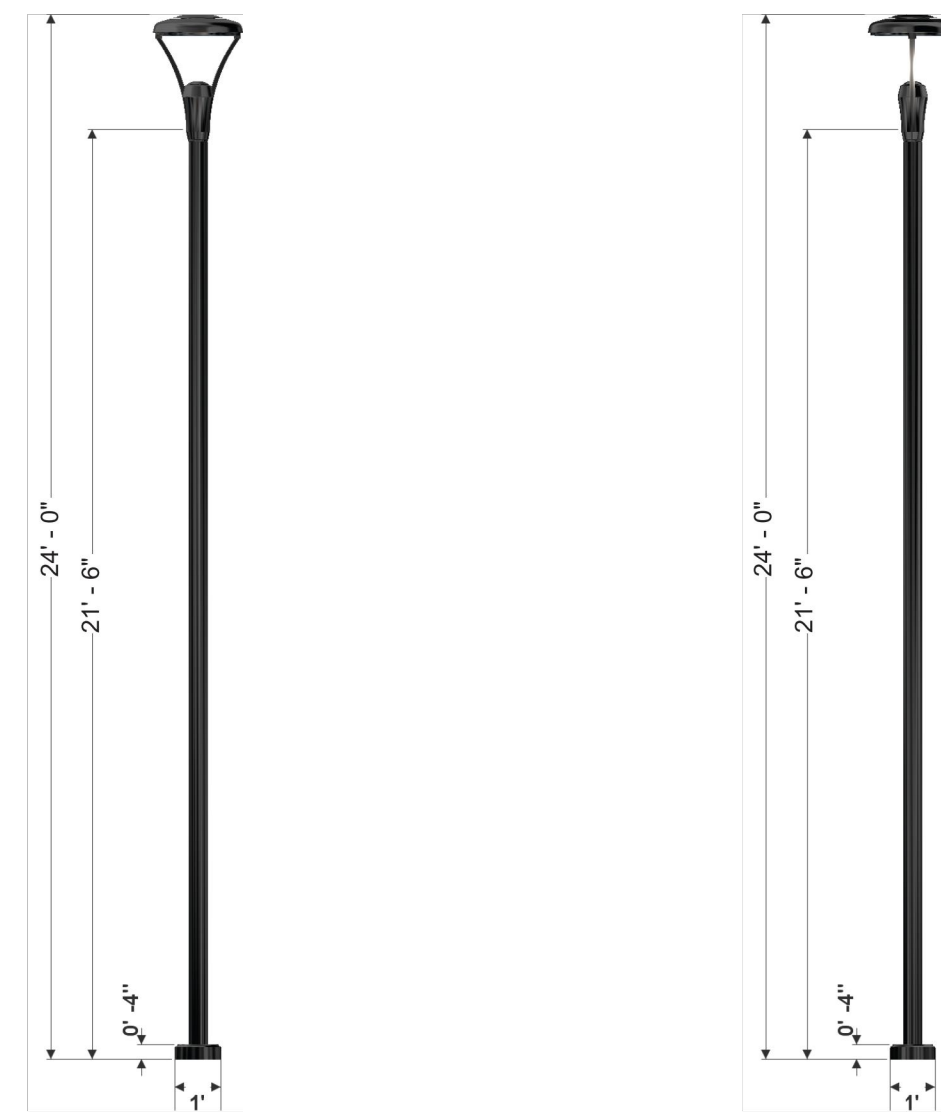
(4) 3/4" x 1/8" Anchor Bolts, 8-5/16" Bolt Circle, Diamond Pattern

Access Door Orientation: 0°
Street Side Orientation: 180°

Job Name: SPRINGDALE TOWNHOMES Customer Signature: Drawing #49048
Job Location: MARGATE, FLORIDA Date: 2023/08/06 1 of 2

Catalog Number: PT-SL760-40L40T4-MDL016-SV1-BLOC / 550P521.5-250 / BKT

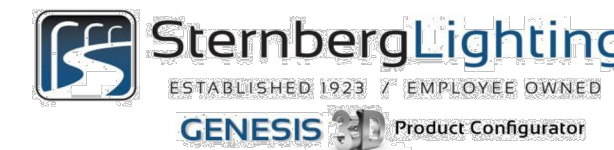
555 Lawrence Avenue | Roselle, IL 60712 | p 847.588.3400 | www.sternberglighting.com
CONCEPTUAL ASSEMBLY DRAWING, SUBJECT TO ENGINEERING VERIFICATION BY THE FACTORY



Catalog Number: PT-SL760-40L40T4-MDL016-SV1-BLOC / 550P521.5-250 / BKT

Job Name: SPRINGDALE TOWNHOMES Customer Signature: Drawing #49048
Job Location: MARGATE, FLORIDA Date: 2023/08/06 2 of 2

TYPE A FIXTURE



Catalog Number: SL760-40L40T4-MDL016-SV1-BLOC/BKT Type: A

Customer Approval: Signature: _____ Date: _____

Conceptual assembly drawing, subject to Engineering verification by factory.



FIXTURE: SL760
The Solara® Post Top Luminaire's modern geometric design complements a diverse assortment of contemporary architectural settings. Its urbanesque yoke design offers not only aesthetic beauty, durability and optical efficiency, but takes street, area, and medium mount lighting to another level. The Solara SL760 is well suited for all roadway, site and pedestrian environments.

FIXTURE OPTIONS: -40L40T4-MDL016-SV1-BLOC

Array: 40 LEDs, 179W for MD_016 (40L)
Color Temp: 4000K (40)
Distribution: Type A (T4)
Driver: Multi-Volt Dimmable Low-Range Driver - 120-277V, 160mA (MDL016)
Lens: Flat Soft Vue Light Diffused Acrylic (SV1)
Houseside Shield or Back Lighting
Optical Control: Yes (BLOC)

FINISH: /BKT

Assembly shall be powder coated to Black Textured finish. Prior to coating, the assembly shall be chemically cleaned and etched in a 5-stage washing system which includes alkaline cleaning, rinsing, phosphoric etching, reverse osmosis water rinsing, and non-chrome sealing to ensure corrosion resistance.

Rev	Description	By	Date	Job Name:	Job Location:	City of MARGATE, FLORIDA	Drawing No.:
1				SPRINGDALE TOWNHOMES			49048
2							
3							
4							
5							

TYPE C FIXTURE AND POLE



NightShine Grand
HLAR08 - Specification Sheet

TYPE C

HIGH PERFORMANCE 40K TO 92K LUMEN SYSTEM



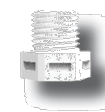
MODERN SEAGULL-CURVE DESIGN
EXCELLENT LIGHT PERFORMANCE
IMMEDIATE ON-OFF/0-10V DIMMING
FIELD SERVICABLE
5050 LUMILED CHIP SET



All of the latest LED technology combined to deliver the highest performance high tennis court lighter on the market. Lumiled 5050 LEDs are the standard in high performing LEDs. The chipset allows for a large and efficient optical package that optimizes light control and distribution. The system is offered with standard 20kV surge and a large body pure aluminum heat management system. The NightShine Grand will provide superior light play for decades to come.

- Full service and full maintenance support
- Rugged and simple "one-person install" system
- Built & supported in the Alpharetta, GA
- Tier 1 performance

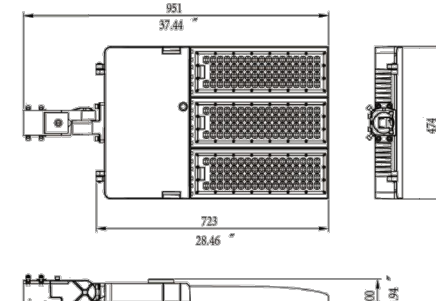
TYPE IV WIDE DISTRIBUTION
STANDARD FOR LIMITED
BACKLIGHT AND FORWARD
WIDE LIGHT THROCK
OTHER OPTICS AVAILABLE
BREATHING VALUE FOR HEAT
PRESSURE RELEASE.



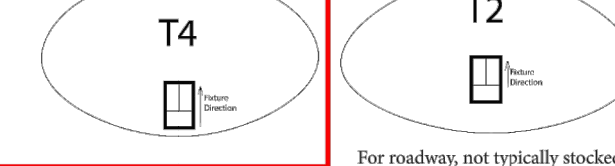
NightShine Grand
HLAR08 - Specification Sheet

PERFORMANCE

PRODUCT	WATTAGE	LUMENS, 5000K	VOLTAGE	CRI	Op TEMP
AR08	400	58,000	100-277V	74+	-40°C
	500 (465 measured)	67,500	270-480V		+55°C
	600	83,520			



OPTICAL DISTRIBUTION



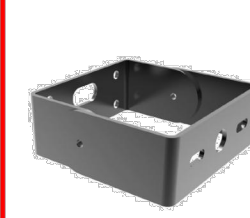
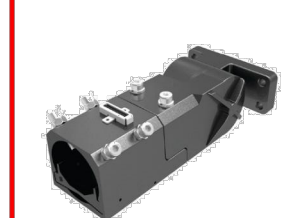
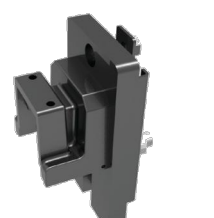
PHOTOMETRIC SERVICES AVAILABLE
OTHER OPTICS AVAILABLE UPON REQUEST

ORDERING

EXAMPLE AR08-500-1W-57K-T5-SF-N-10: 500 watt unit on a 120-277V line at 5700K, with T4 optics and slip fitter mount, 10 year warranty

SKU	WATTAGE	VOLTAGE	CCT	OPTICS	MOUNTING	CONTROLS	SHIELDS
AR08	400	1N (120-277)	50K = 5000K	T4	SP Pole Mount (square)	N None	BS Back shield*
	500	2N (277-480)		T2	RP Pole Mount (round)	D1 Photocell	4S Four side shield*
	600				TRU Trunion	D2 Smart Photocell	
					SF Slip Fitter	D4 Motion	
					TRU Trunion	G1 Custom	

SQUARE/ROUND POLE MOUNT SLIP FITTER TRUNNION

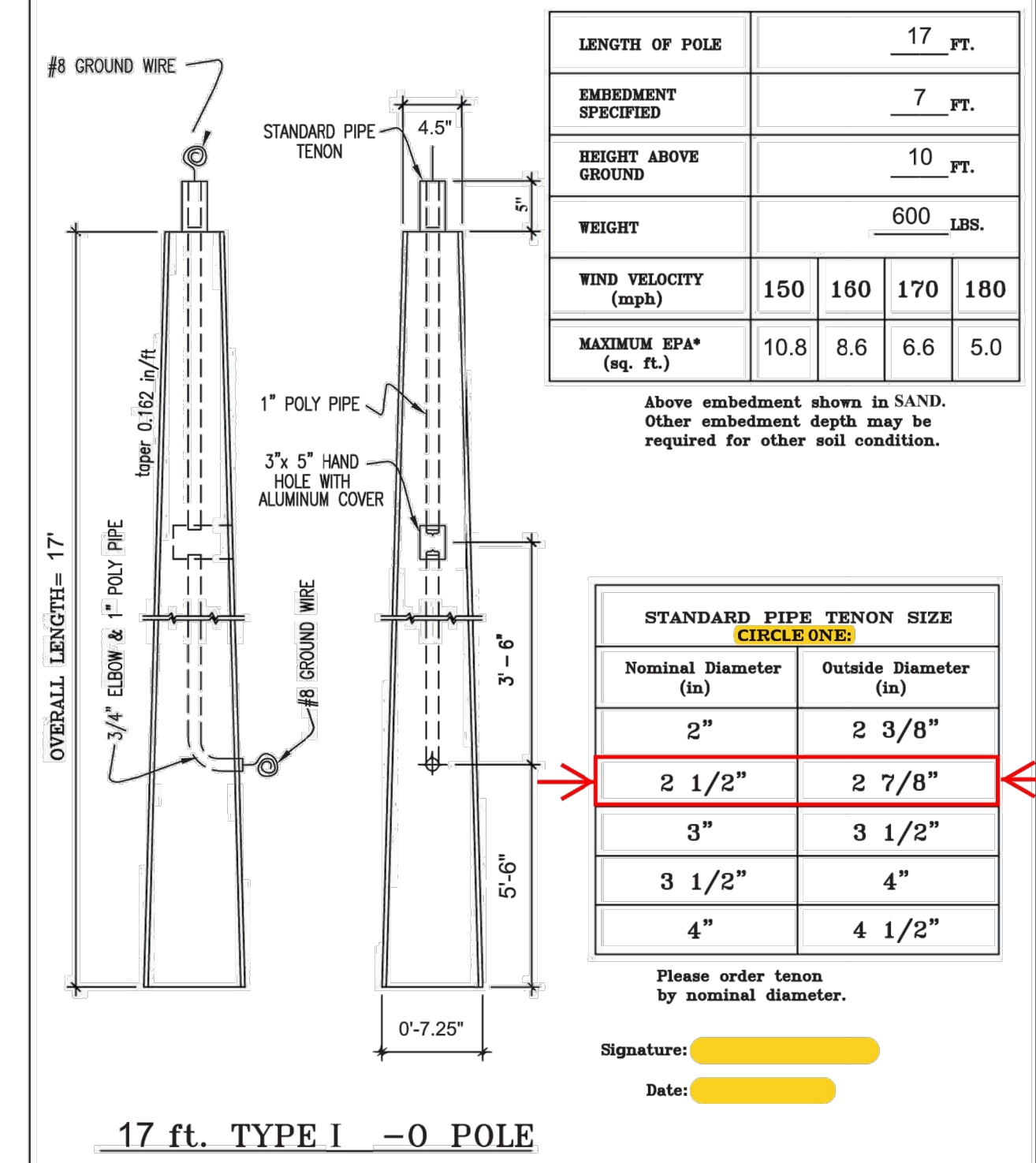


HILUMZ USA

1335 Ridgeland Parkway
Suite 150
Alpharetta, GA 30004

sales@hilumzusa.com
678-867-9200
HILUMZPRO.COM

JOB NO: PROJECT: SPRINGDALE TOWNHOMES CUSTOMER:



LENGTH OF POLE	17 FT.
EMBEDMENT SPECIFIED	7 FT.
HEIGHT ABOVE GROUND	10 FT.
WEIGHT	600 LBS.
WIND VELOCITY (mph)	150 160 170 180
MAXIMUM EPA* (sq. ft.)	10.8 8.6 6.6 5.0

Above embedment shown in SAND. Other embedment depth may be required for other soil condition.

STANDARD PIPE TENON SIZE	
CIRCLE ONE:	
Nominal Diameter (in)	Outside Diameter (in)
2"	2 3/8"
2 1/2"	2 7/8"
3"	3 1/2"
3 1/2"	4"
4"	4 1/2"

Please order tenon by nominal diameter.
Signature: _____
Date: _____

17 ft. TYPE I -0 POLE
PRECAST SPECIALTIES
Precast Specialties, LLC.
CGC-060216
3898 Selwitz Road | Fort Pierce, FL 34981

NOTES:
1.) ALL OF THE TYPE C FIXTURES SHALL HAVE BACKSIDE SHIELDS.
2.) NO SUBSTITUTIONS ALLOWED WITHOUT THE PRIOR CONSENT OF THE ENGINEER OF RECORD.
3.) CONTRACTOR SHALL VERIFY ALL SITE VOLTAGES PRIOR TO ORDERING ANY LIGHT FIXTURES.
4.) CONTRACTOR SHALL PROVIDE A SET OF "SIGNED AND SEALED" PHOTOMETRIC PLANS AS PART OF THE SUBMITTAL PACKAGE.
5.) FOR ANY LIGHTING QUESTIONS, PLEASE CONTACT: MAINNOR PIND AT 561-373-9004.

ELECTRICAL ENGINEER: WILLIAM E. PIND, P.E. FLORIDA P.E. # 30226

SCALE: NTS

DESIGNED BY: RB

DRAWN BY: MP

CHECKED BY: WP

DESCRIPTION: INDEX SHEET & PHOTOMETRIC TABLE

PROJECT: NOVE OF MARGATE MARGATE, FLORIDA

DATE: 09/20/2022

PROJECT NO. M22035

SHEET NUMBER PH-08

lightworks

REVISION

No.	REVISION	DATE	BY
1	REVISED SITE PLAN	10-06-2023	MP
2	REVISED FIXTURE	08-06-2023	MP
1	REVISED BASEMAP	11-04-2022	MP