

FLORIDA BUILDING CODE 2020
FLORIDA EXISTING BUILDING CODE 2020

ALTERATION LEVEL 2
WIND SPEED = 110 MPH V (ULT.), 132 MPH V (ASD)
WIND IMPORTANCE FACTOR = 1.0
EXPOSURE D

PROJECT INDEX	
SD1	SITE PLAN, SITE VICINITY MAP, AREA CALCULATIONS
SDP	SITE UTILIZATION PLAN
RI.0	MATERIALS REMOVAL PLAN AND FLOOR PLAN
RI.0	ELEVATIONS
RI.0	IMAGE KEY PLAN
RI.0	IMAGES
RI.0	IMAGES
RI.0	IMAGES
RI.0	IMAGES
RI.0	IMAGES

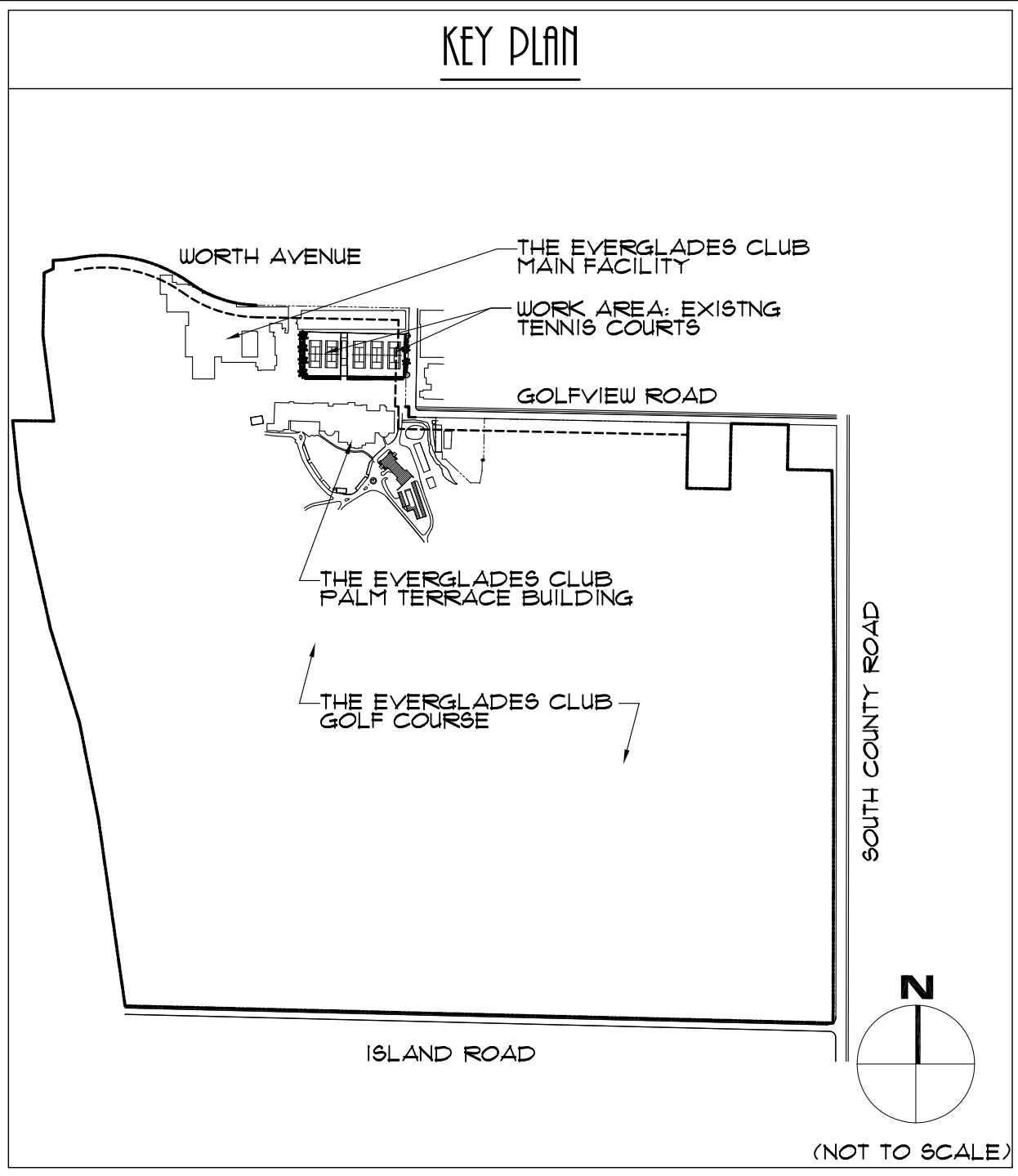
PROJECT DATA

SITE DATA:

ZONING DISTRICT: DA
LOT AREA: 4,154,904 S.F.

SITE PLAN NOTE

1. THE ARCHITECTURAL KEY PLAN IS FOR GENERAL LOCATION OF THE SITE FEATURES ONLY. THE SURVEYOR IS RESPONSIBLE FOR VERIFYING BUILDING LOT FIT, LOT COVERAGE, EASEMENT LOCATIONS, SETBACKS, AND ALL SITE DIMENSIONS PRIOR TO PERMIT AND CONSTRUCTION. IF ANY CONFLICTS OCCUR BETWEEN THE ARCHITECTURAL SITE PLAN AND SURVEYORS PLAN, THE GENERAL CONTRACTOR AND ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO PERMITTING AND CONSTRUCTION. NO WORK SHALL BE PERFORMED UNTIL THE GENERAL CONTRACTOR RESOLVES THE CONFLICTS.



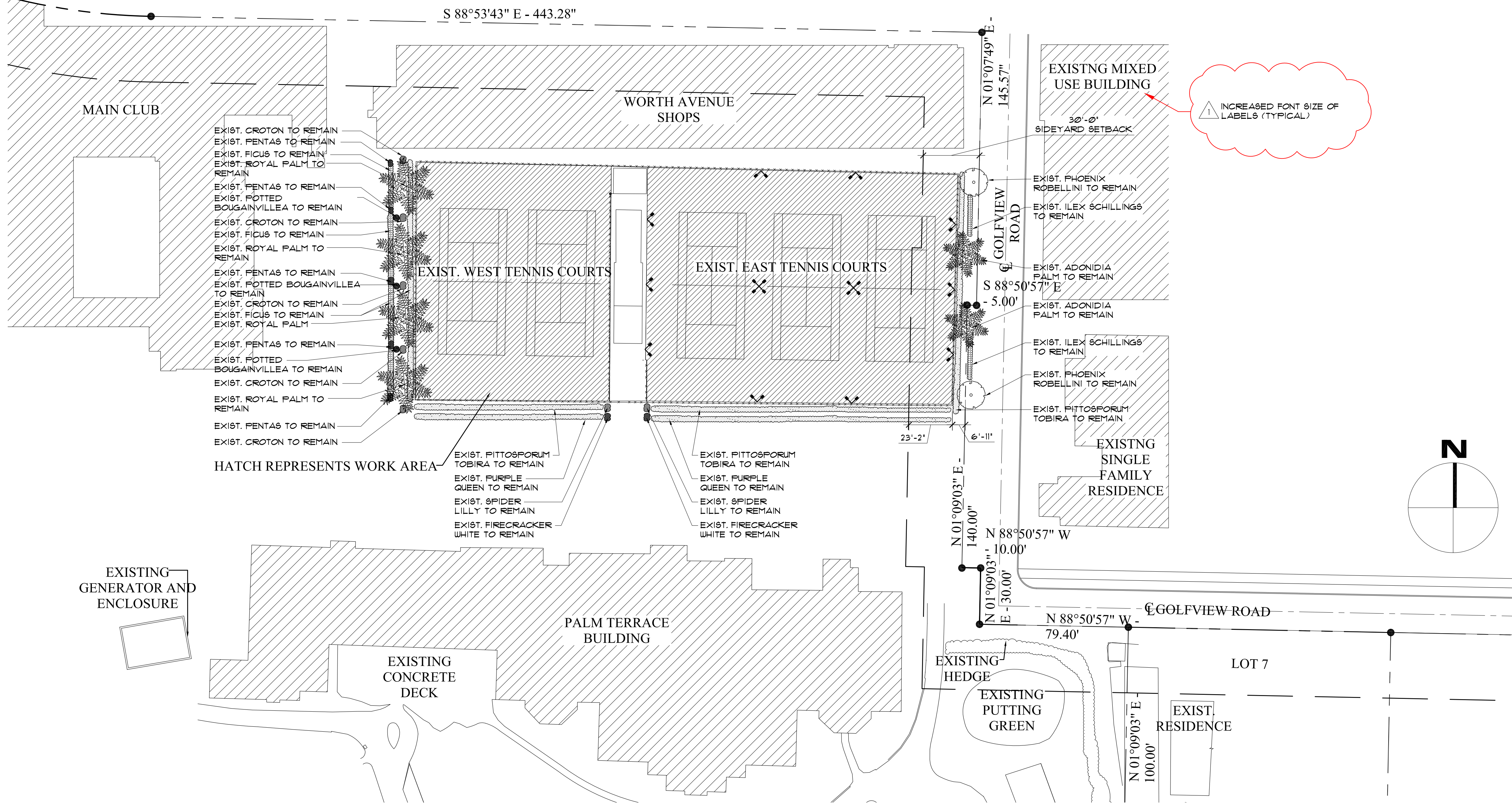
LEGAL DESCRIPTION

EVERGLADES CLUB GOLF COURSE LOCATED IN SECTION 26, TOWNSHIP 43 SOUTH, RANGE 43 EAST, TOWN OF PALM BEACH, FLORIDA

SITE INFORMATION

A & B ENGINEERING, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
LB 19542
3461 FAIRLANE FARMS ROAD
WELLINGTON, FL 33414
PH. (561) 383-1480
FAX. (561) 383-1485

R-1 ZONING DISTRICT AFFECTED PROJECT DATA			
CRITERIA	REQUIRED	PREVIOUSLY APPROVED UNDER COA-054-2014 AND 9E-28-2014	PROPOSED
SIDE YARD SETBACK	30'-0"	6'-11"	6'-11"
EXTERIOR LIGHTING HEIGHT	15'-0" MAX.	24'-0" (4'-0")	23'-6"
HEDGES TO HIDE LIGHTING AND FENCE	15'-0"	SEE SITE PLAN	EXISTING TO REMAIN



B·D

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(F) 561-820-8089
WWW.BRASSEURANDDROBOT.COM
BR 0017698 BR 94845
NCRB 60164 NCRB 67675
BR 26001461

ZON-22-112 FINAL SUBMITTAL
NEW TENNIS COURT LIGHTING FOR:
THE EVERGLADES CLUB
350 WORTH AVENUE
PALM BEACH, FLORIDA

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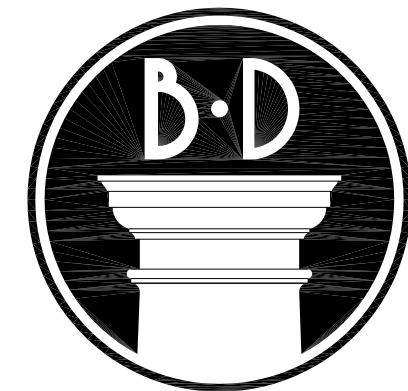
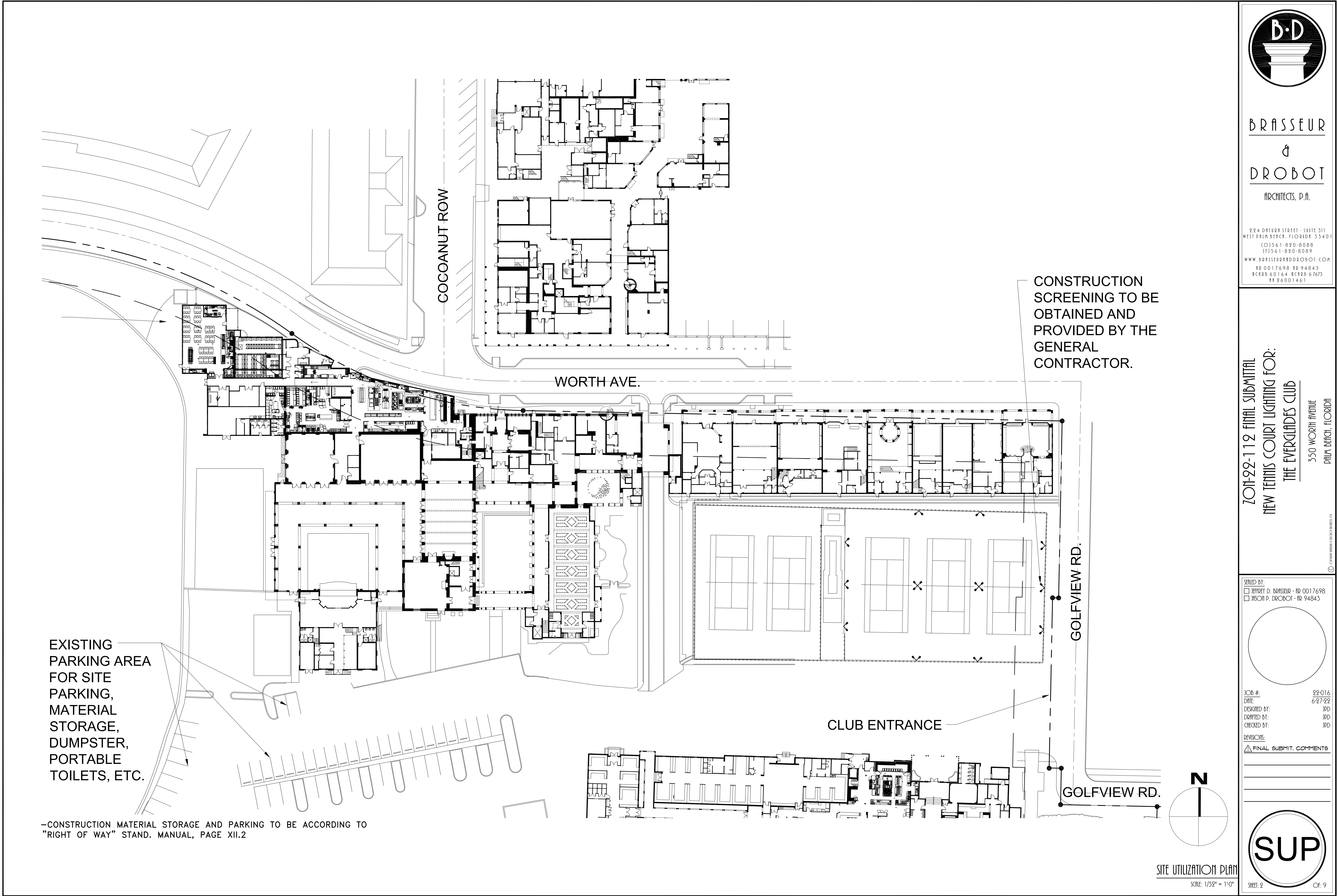
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☐ JEFFREY D. BRASSEUR - BR 0017698
☐ JASON P. DROBOT - BR 94845

JOB #: 22-016
DATE: 6-27-22
DESIGNED BY: JPD
DRAFTED BY: JPD
CHECKED BY: JPD

REVISIONS:
△ FINAL SUBMIT. COMMENTS

SP1

SHEET: 1 OF 9



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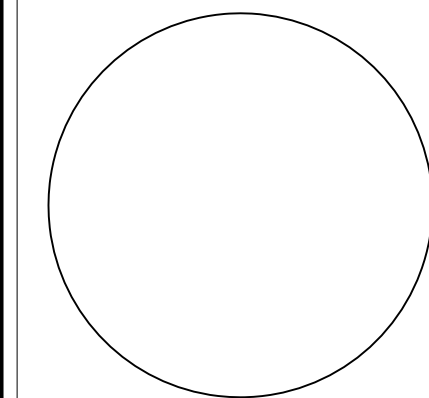
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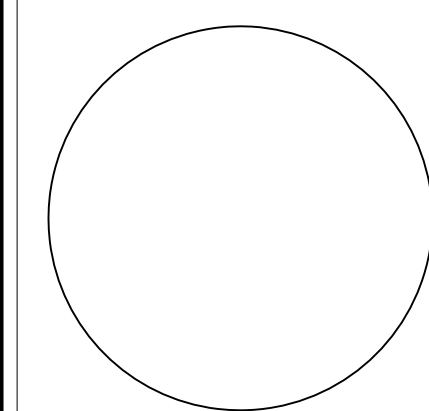
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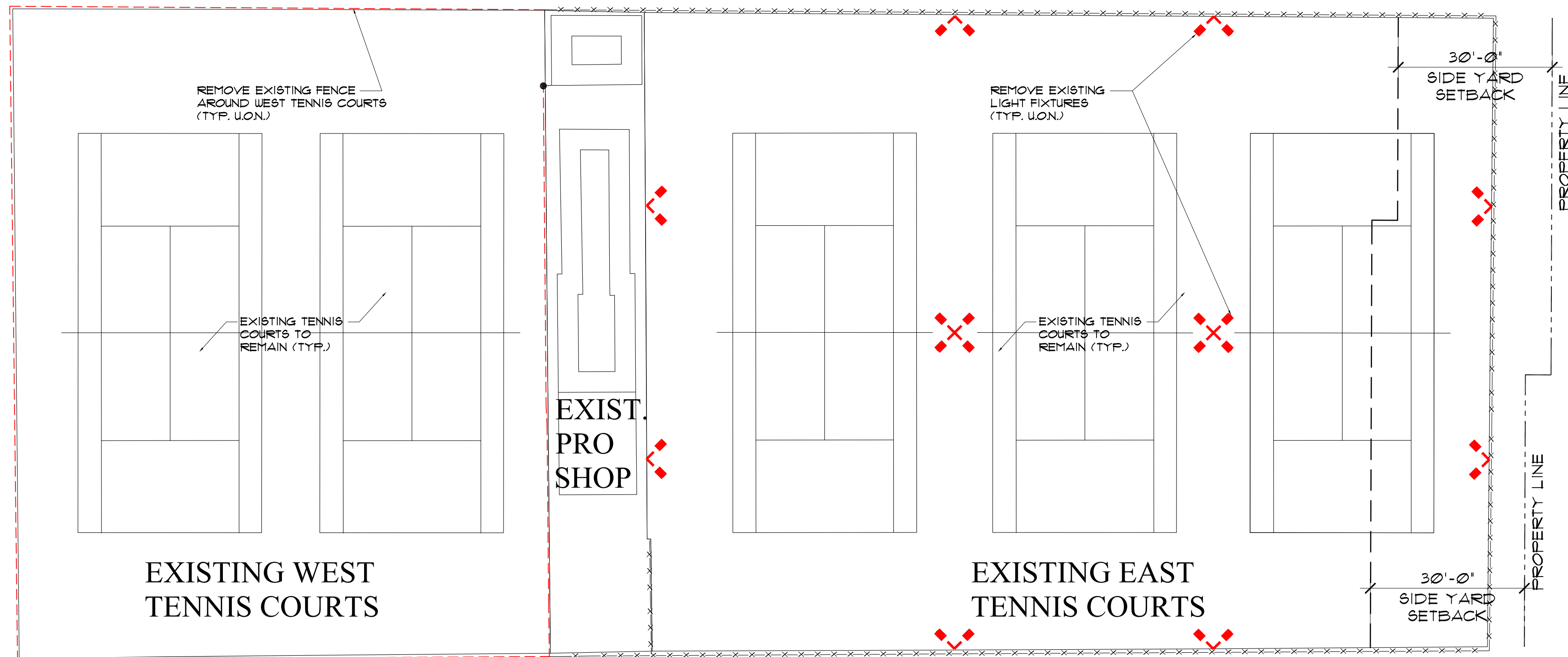
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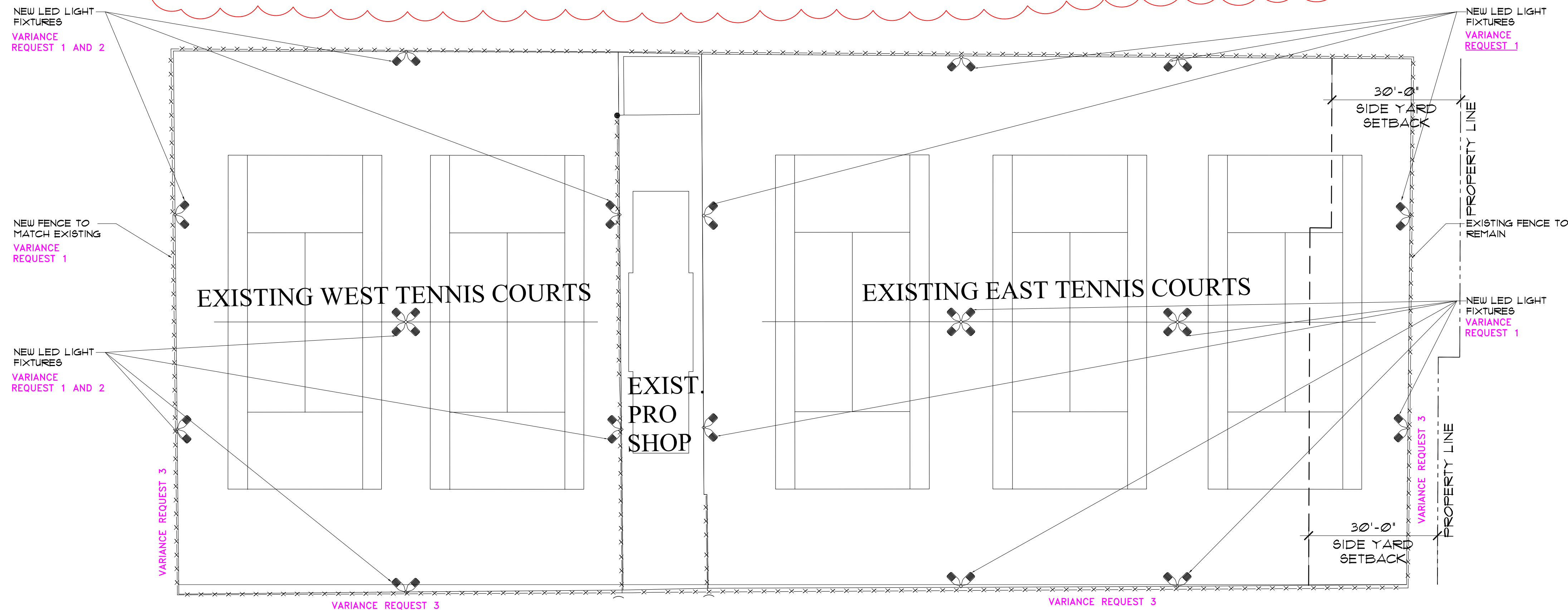


EXISTING TENNIS COURT LIGHTING MATERIALS REMOVAL PLAN

SCALE: 1/16" = 1'-0"

VARIANCE REQUESTS:

1. SECTION 134-840: A REQUEST FOR SPECIAL EXCEPTION APPROVAL WITH SITE PLAN REVIEW TO ALLOW THE INSTALLATION OF SEVEN (7) NEW POLES FOR TENNIS COURT LIGHTS AT THE EXISTING WESTERLY TENNIS AND REPLACE LIGHTS ON THE EXISTING TEN (10) POLES ON THE EASTERLY COURTS WITH LED LIGHTS. ALL LIGHTS WILL HAVE TIMERS. REPLACE FENCE TO MATCH EXISTING.
2. SEC. 134-1731: A LIGHT FIXTURE HEIGHT OF 23'-6" ABV. GRADE IN LIEU OF 15'-0" (MAX.) FROM GRADE HEIGHT ALLOWED BY CODE.
3. SECTION 134-1759: A REQUEST TO MAINTAIN THE EXISTING LANDSCAPE SCREENING AT 6.5' TALL IN LIEU OF THE 23.5 FOOT TALL LANDSCAPE SCREENING THAT WOULD BE REQUIRED AT THE SAME HEIGHT AS THE PROPOSED LIGHTS.



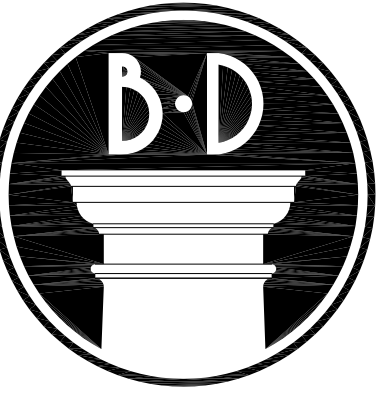
PROPOSED TENNIS COURT LIGHTING PLAN

SCALE: 1/16" = 1'-0"

MATERIALS REMOVAL PLAN AND PROPOSED FLOOR PLAN

SCALE: 1/16" = 1'-0"

ADDED VARIANCE REQUESTS AND LABELED THE PLAN WITH CORRESPONDING REQUEST



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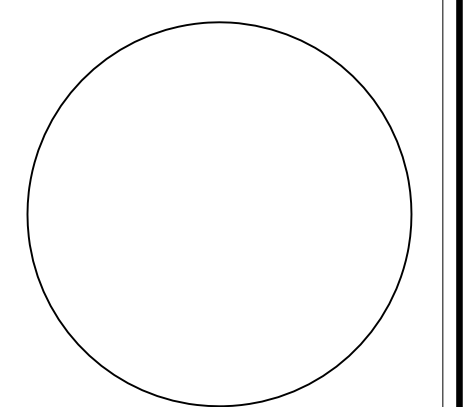
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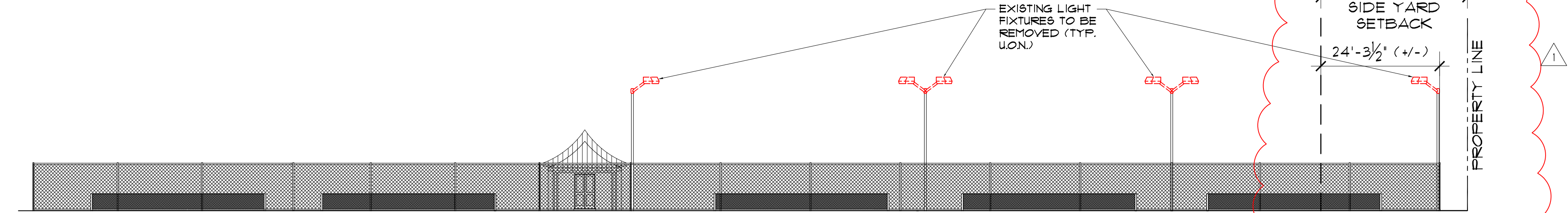
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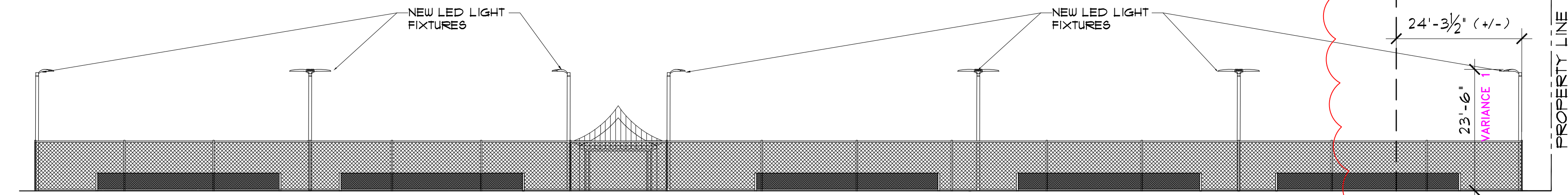
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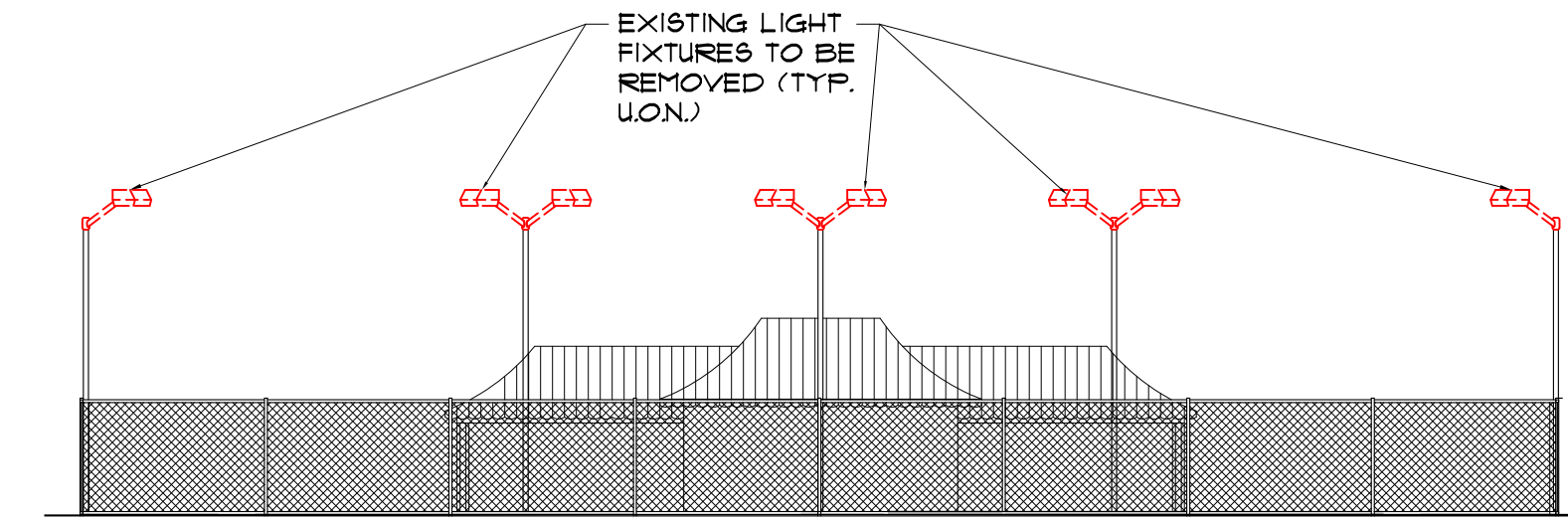
EXISTING SOUTH ELEVATION

SCALE: 1/16" = 1'-0"



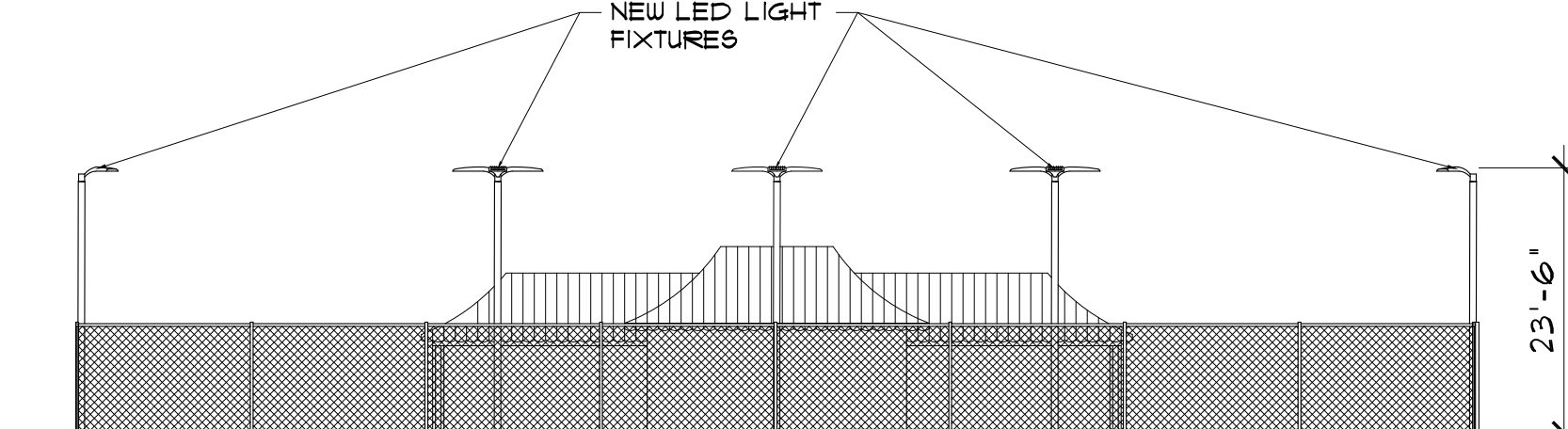
PROPOSED SOUTH ELEVATION

SCALE: 1/16" = 1'-0"



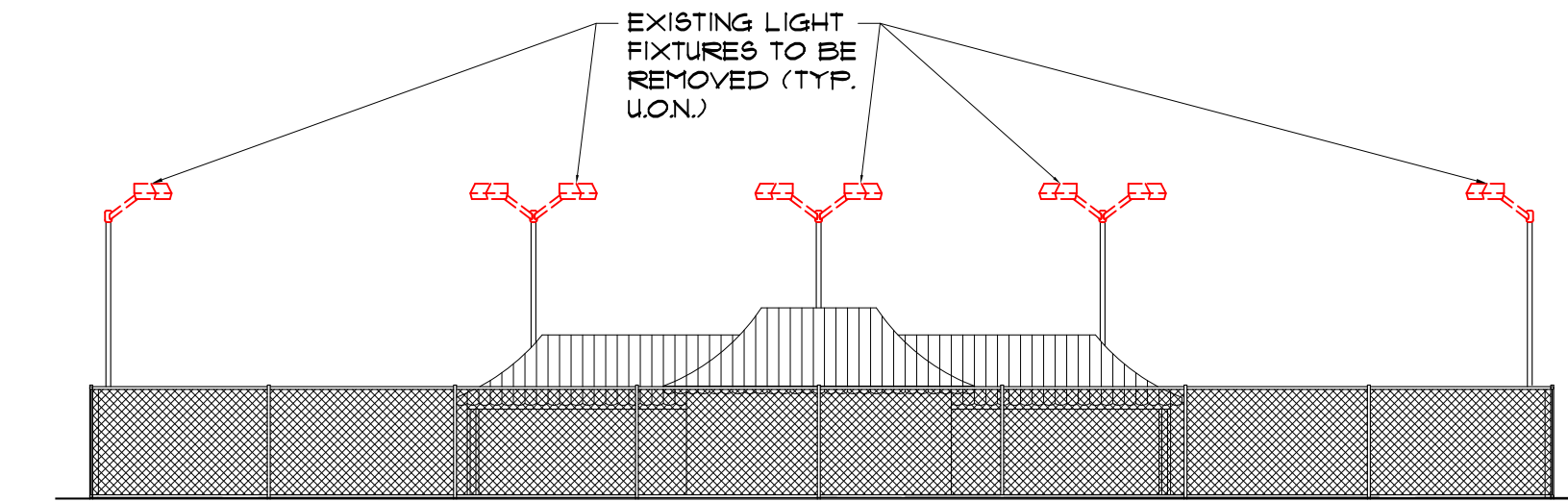
EXISTING EAST ELEVATION

SCALE: 1/16" = 1'-0"



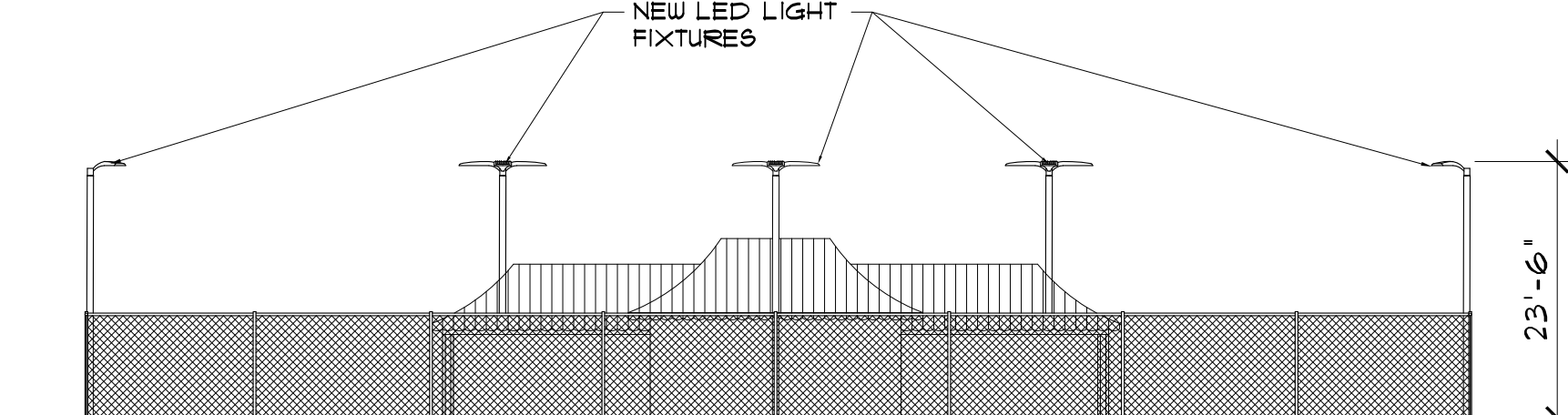
PROPOSED EAST ELEVATION

SCALE: 1/16" = 1'-0"



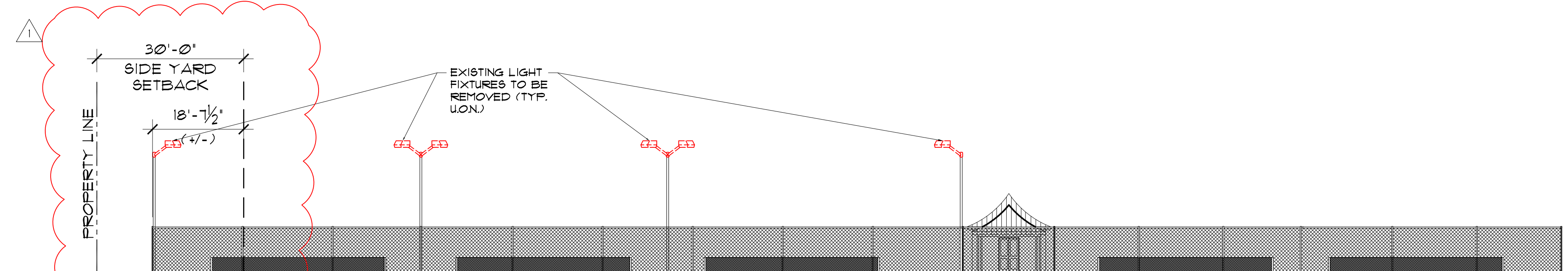
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SCALE: 1/16" = 1'-0"



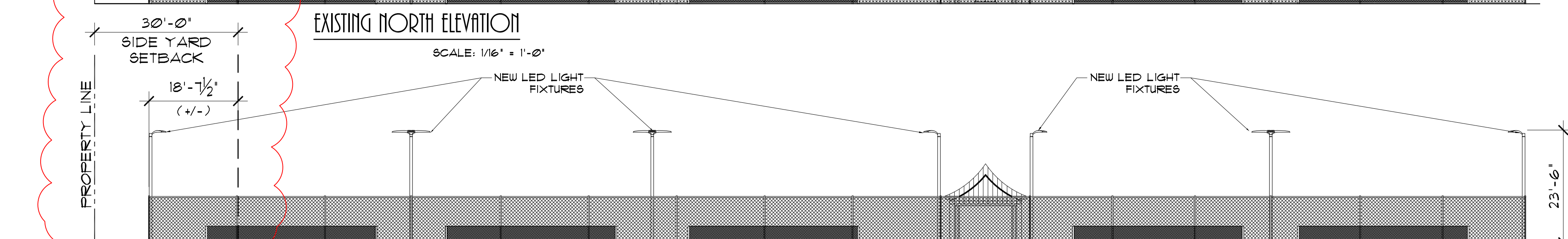
PROPOSED WEST ELEVATION

SCALE: 1/16" = 1'-0"



EXISTING NORTH ELEVATION

SCALE: 1/16" = 1'-0"



PROPOSED NORTH ELEVATION

SCALE: 1/16" = 1'-0"

ELEVATIONS
SCALE: 1/16" = 1'-0"



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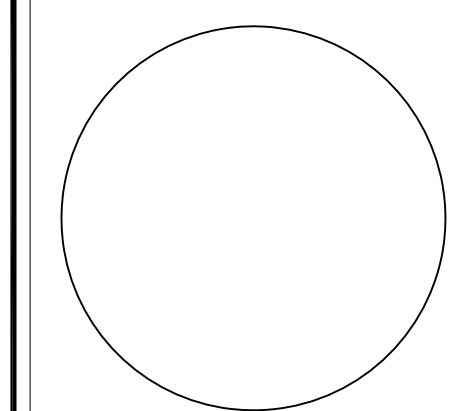
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350 WORTH AVENUE
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SHEET: 5

OF: 9

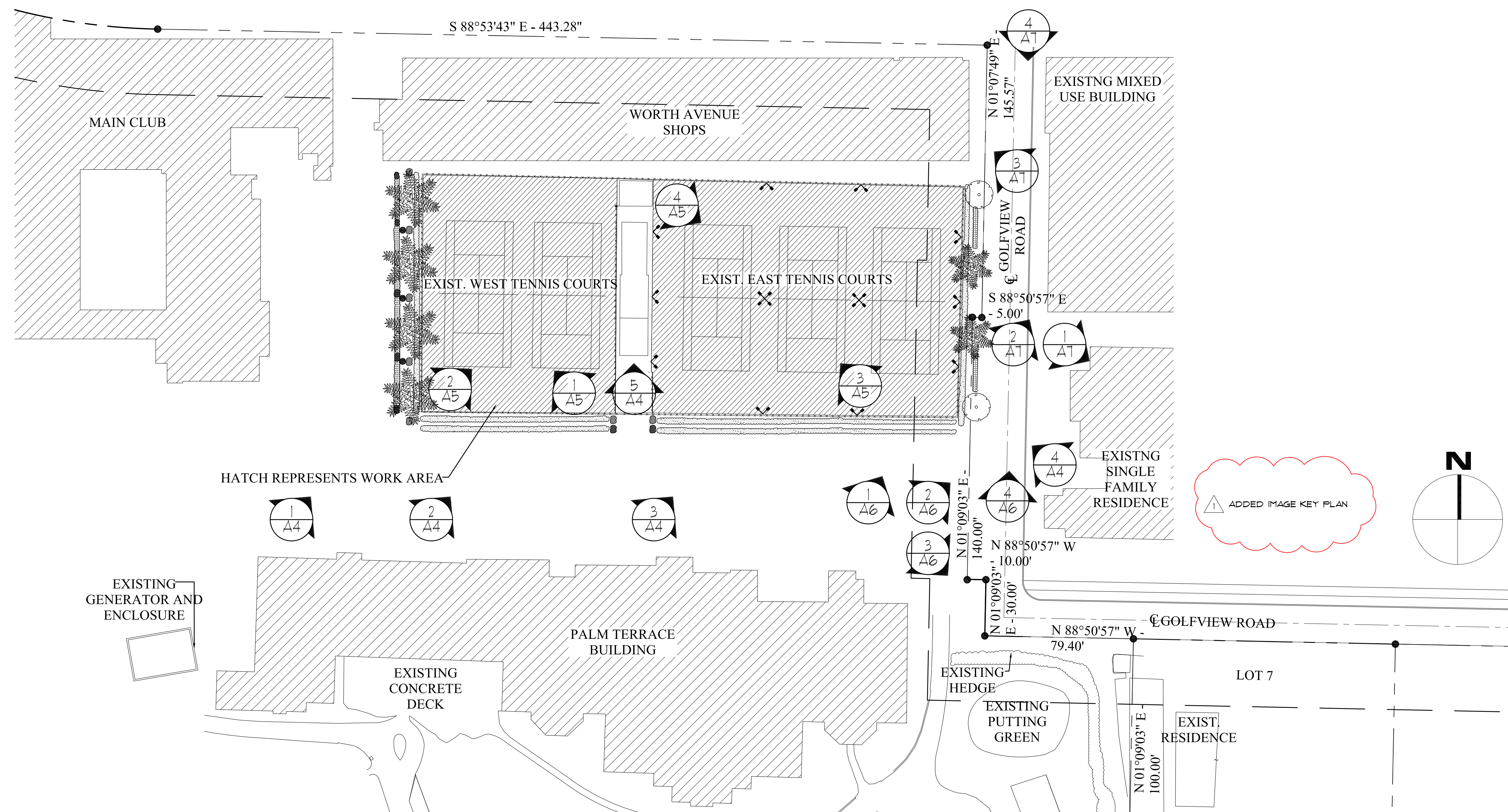


IMAGE KEY PLAN

SCALE: 1/32" = 1'-0"



1
A4
VIEW LOOKING NORTHEAST



2
A4
VIEW LOOKING NORTHEAST



3
A4
VIEW LOOKING NORTHEAST



4
A4
VIEW LOOKING NORTHWEST



5
A4
VIEW LOOKING NORTH



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fl4.0
SHEET: 6 OF 9



1
A5 VIEW LOOKING NORTHWEST



2
A5 VIEW LOOKING EAST



3
A5 VIEW LOOKING WEST



4
A5 VIEW LOOKING EAST

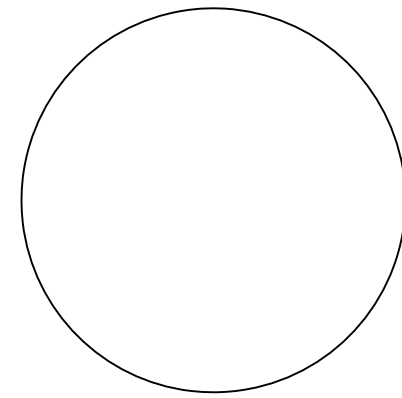


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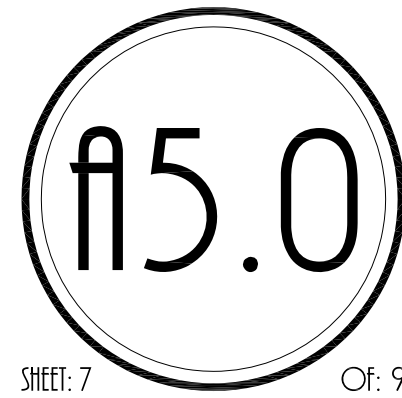
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1
A6 VIEW LOOKING NORTHEAST AT NEIGHBORING PROPERTIES



2
A6 VIEW LOOKING EAST AT NEIGHBORING PROPERTIES



3
A6 VIEW LOOKING SOUTHEAST AT NEIGHBORING PROPERTIES



4
A6 VIEW LOOKING NORTH ALONG GOLFVIEW ROAD

1
ADDED ADDITIONAL
PHOTOS OF VIEW ALONG
GOLFVIEW RD. INTO TENNIS
COURTS AND ADJACENT
NEIGHBORS

IMAGES

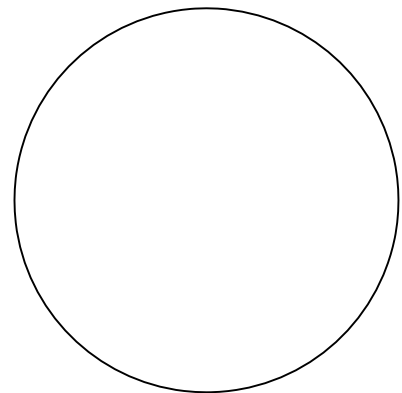


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PALM BEACH, FLORIDA

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FINAL SUBMIT. COMMENTS

16.0
SHEET: 8 OF: 9



1
A1 VIEW LOOKING NORTHEAST AT 312 WORTH AVE.



2
A1 VIEW LOOKING EAST AT 16 GOLFVIEW ROAD




3
A1 VIEW LOOKING NORTHWEST AT THE WORTH AVENUE SHOPS



4
A1 VIEW LOOKING SOUTH ALONG GOLFVIEW RD.

1
ADDED ADDITIONAL
PHOTOS OF VIEW ALONG
GOLFVIEW RD. INTO TENNIS
COURTS AND ADJACENT
NEIGHBORS

IMAGES



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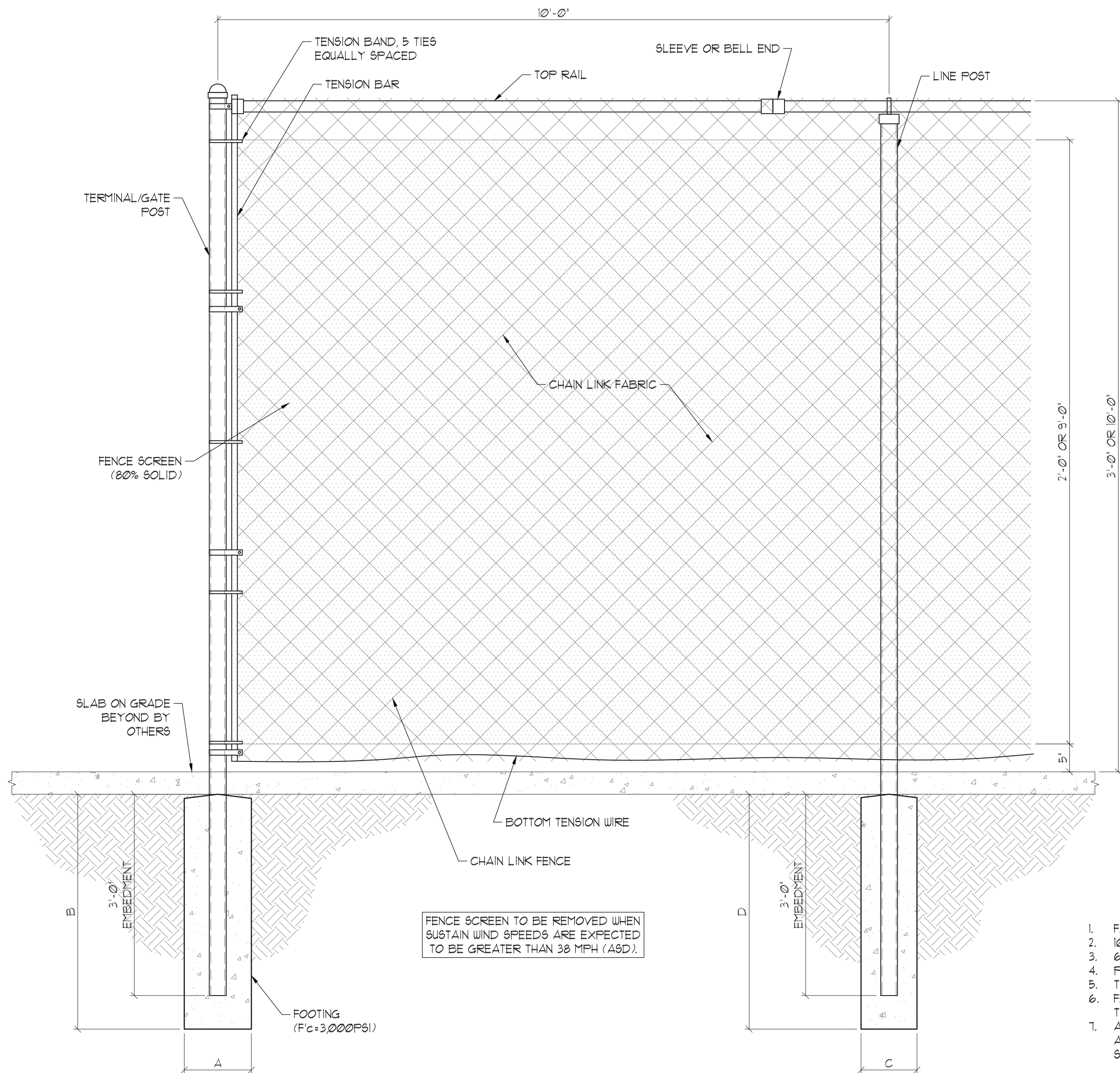
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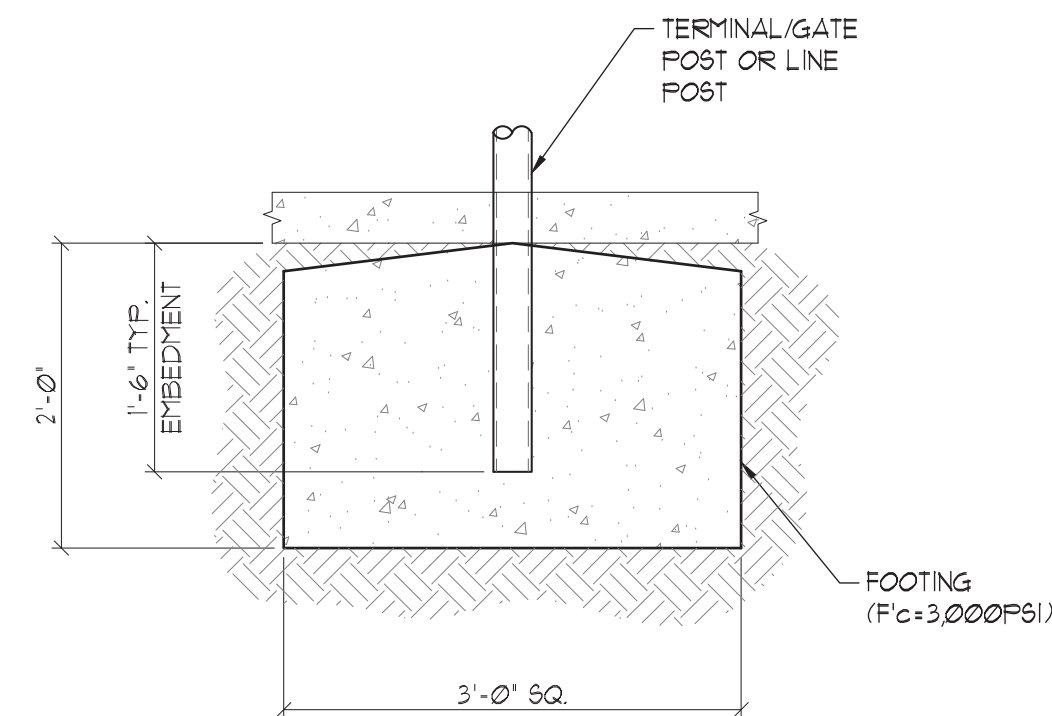


1 TYPICAL FENCE SECTION WITH FOOTING
SCALE: N.T.S.

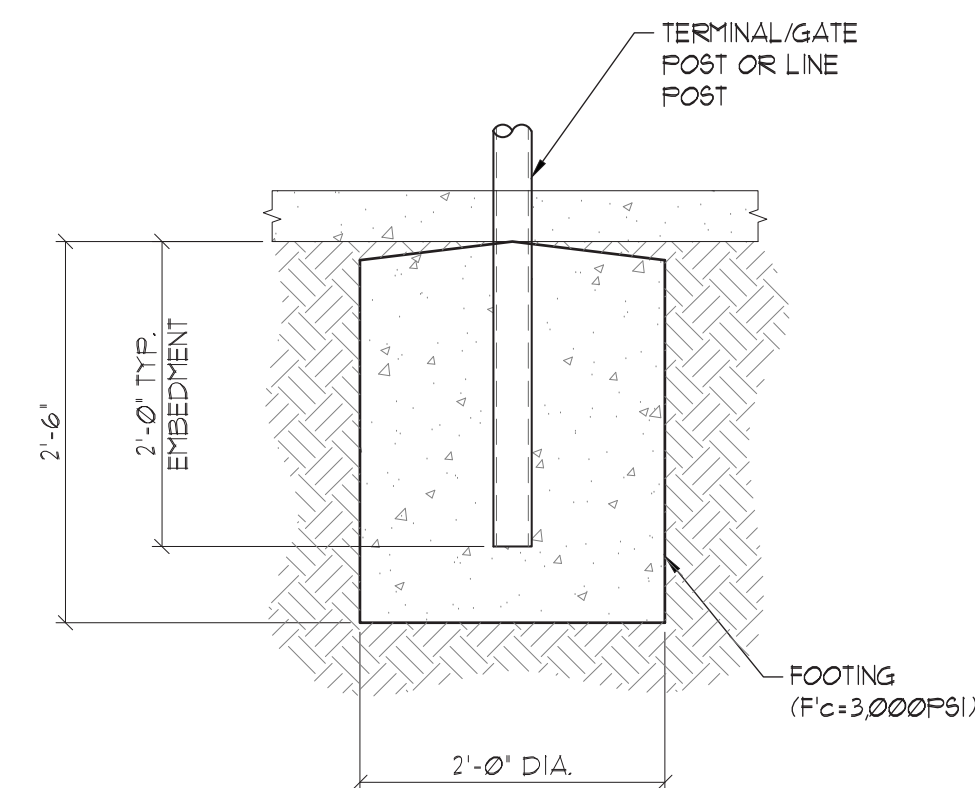
DESIGN CRITERIA:	
BUILDING CODE	7th EDITION 2020 FBC
RISK CATEGORY	I
TOPOGRAPHIC FACTOR, K _{zt}	1.0
WIND EXPOSURE	'D'
BASIC WIND SPEED, V (3-SEC GUST)	160 MPH (V _{asd} =124 MPH)

- FABRIC IS 9 GAUGE, KNUCKLED TOP AND BOTTOM VINYL COATED.
- 10FT. AND 8FT. HIGH FABRIC IS 1-3/4" MESH.
- 6FT., 4FT. AND 3FT. HIGH FABRIC IS 2" MESH.
- POSTS ARE 5540 WEIGHT, POLYESTER COATED.
- TOP RAIL IS 5520 WEIGHT, POLYESTER COATED.
- FENCE FOOTERS ARE PARTIALLY RESTRAINED AT GRADE BY TENNIS COURT SURFACE.
- ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2,000 PSF AND LATERAL BEARING PRESSURE TO BE 150 PSF/FT, CONTRACTOR SHALL VERIFY.

TERMINAL/GATE POST SIZE = 3" O.D. x 0.160" (WALL THICKNESS)
 LINE POST SIZE = 2-1/2" O.D. x 0.130" (WALL THICKNESS)
 RAIL SIZE = 1-5/8" O.D.
 BOTTOM TENSION WIRE GAUGE = 9
 FOOTER DIMENSIONS A=12" B=42" C=10" D=42" (SEE DETAILS 2 AND 3 FOR ALTERNATIVE FOOTER SIZE)



2 ALT. FOOTER DETAIL
SCALE: N.T.S.



3 ALT. FOOTER DETAIL
SCALE: N.T.S.

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE EDITION 2020 FLORIDA BUILDING CODE FOR 160 MPH (V_{asd} = 124 MPH), 3 SEC. GUST, EXPOSURE 'D' OPEN WIND ZONE. THIS DRAWING AND DESIGN IS VALID FOR 12 MONTHS AFTER THE DATE IT IS SIGNED AND SEALED. SIGNED AND SEALED FOR THE STRUCTURAL PORTION OF THIS DRAWING ONLY.

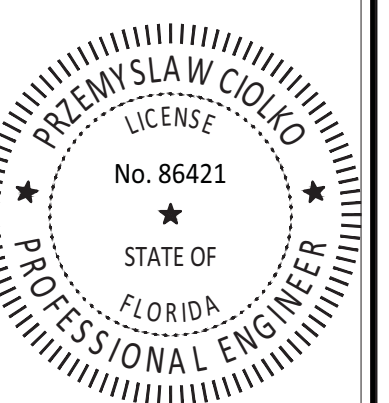
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REVISION:

DATE	DESCRIPTION
05.09.22	1.00 PERMIT SET

VERSION NO. 1.00 / 05.09.22

This item has been digitally signed and sealed by **Przemyslaw Cieliko, PE** on 5/9/2022 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the SHA communication code must be verified on any electronic copies.



SHEET TITLE:

TYPICAL FENCE SECTION AND DETAILS

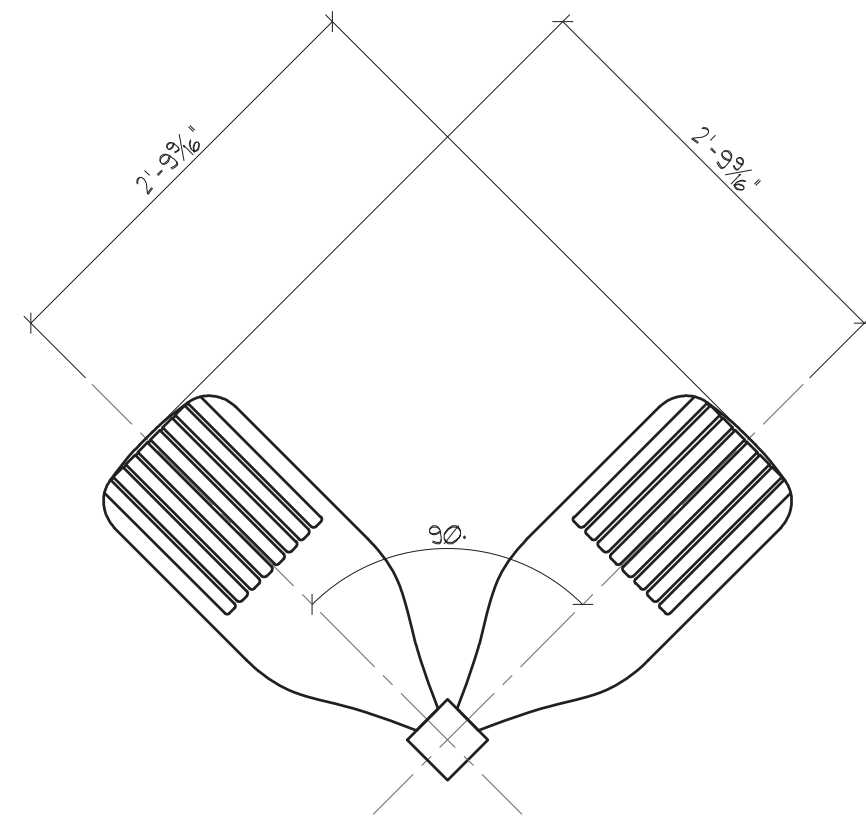
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JOB NO.: 420767
 DATE ISSUED: 05.09.22
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 REVIEWED BY: PC

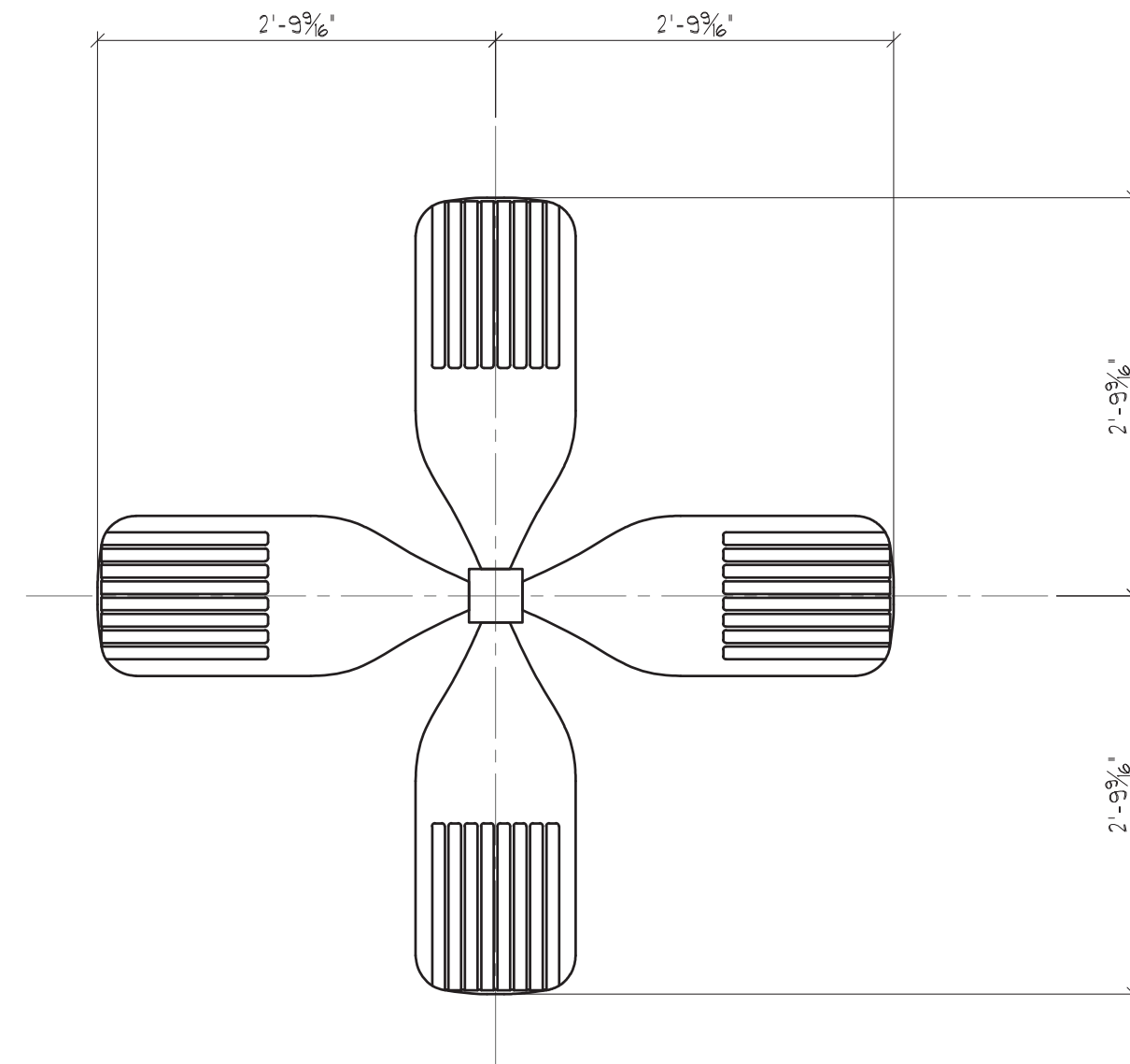
SK-1

DESIGN CRITERIA:
BUILDING CODE 7th EDITION 2020 FEC
RISK CATEGORY I
TOPOGRAPHIC FACTOR, K_{zt} 1.0
WIND EXPOSURE "D"
BASIC WIND SPEED, V (3-SEC GUST) 160 MPH (V_{asd}=124 MPH)

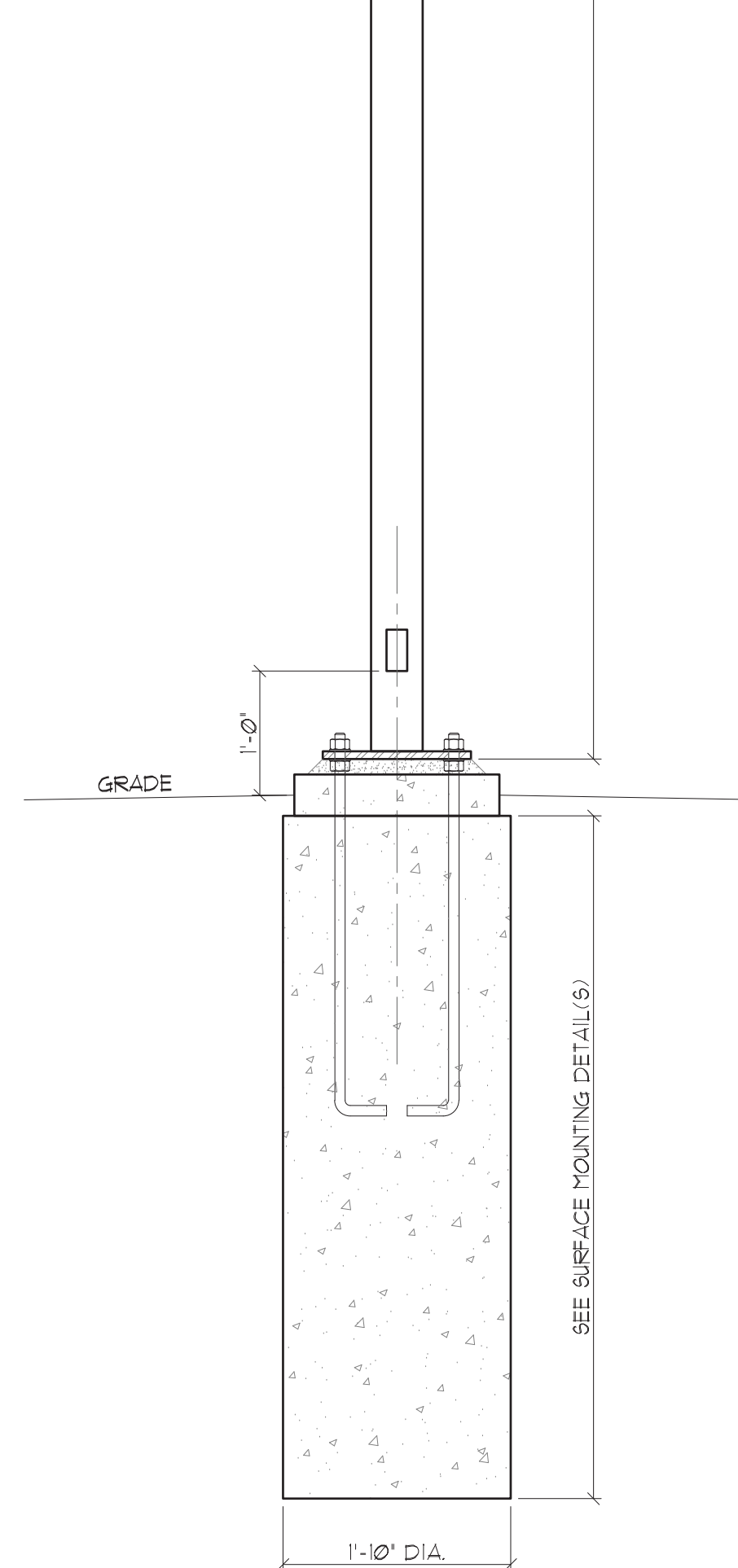
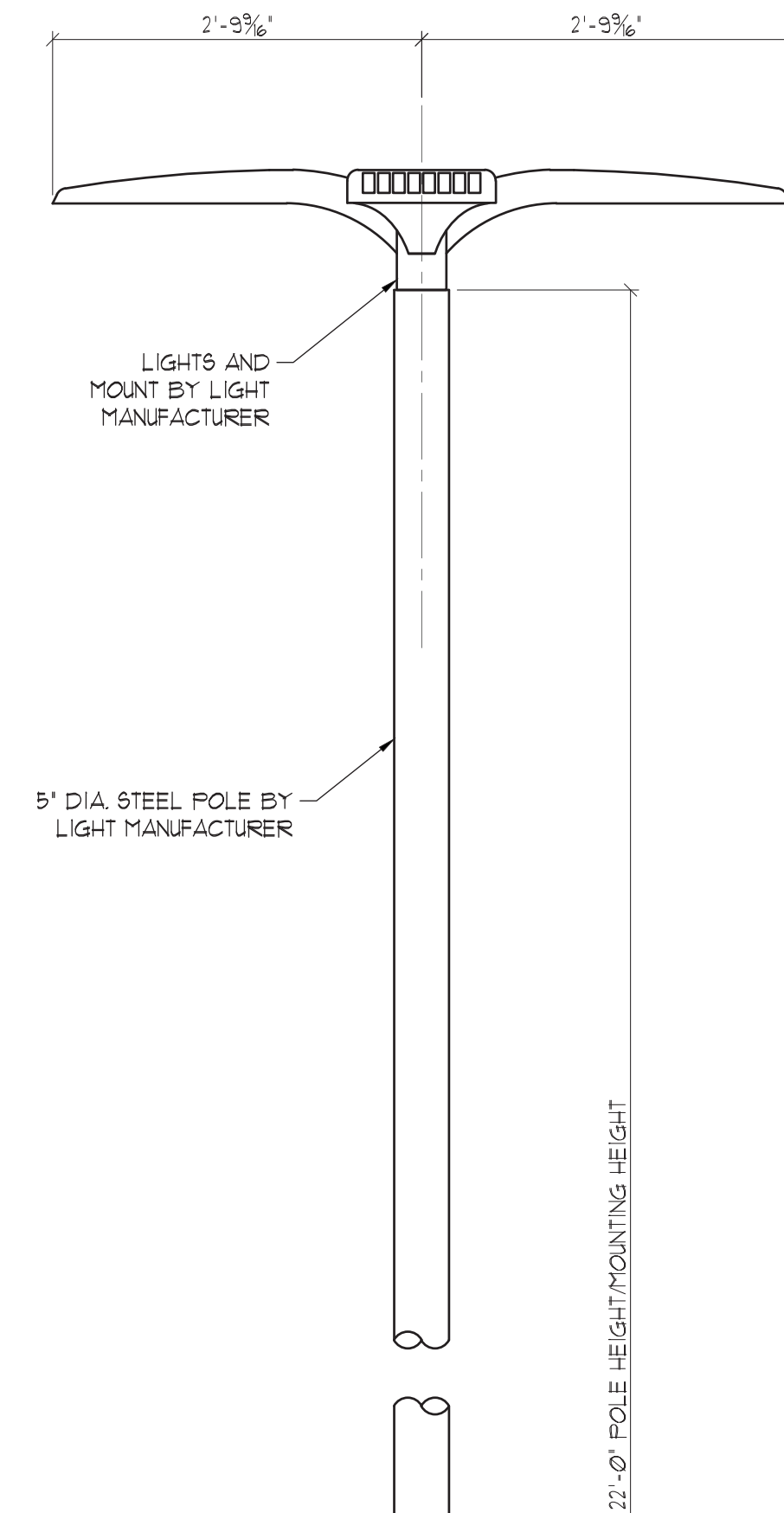
- PLAN NOTES:
- DE IS RESPONSIBLE FOR FOUNDATION AND ANCHORAGE DETAIL FOR STEEL LIGHT POLE AS SHOWN ON THE DRAWINGS. DE IS NOT RESPONSIBLE FOR DESIGN OF LIGHT POLE AND LIGHT SUPPORTING ARM, MEANS AND METHODS OF CONSTRUCTION, TEMPORARY SUPPORT FOR POLES BEING ERECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - MIN. F1554 GRADE 36 ANCHOR BOLTS. EXTERIOR EXPOSED STEEL SHALL BE HOT DIPPED GALVANIZED OR PRIME 4 PAINTED, TYP. LIGHT POLE MANUFACTURER'S APPROVED CORROSION RESISTING COATING IS ACCEPTABLE.
 - REINFORCING STEEL SHALL BE ASTM A615/A615M-15ae1 GRADE 60, F_y = 60KSI. LAP SPICE SHALL BE AS FOLLOWS: #5 BAR 15" #4 BAR 20" #3 BAR 15". ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING ARE TO THE CENTER LINE OF EACH BAR EXCEPT WHERE THE COVER DIMENSION IS SHOWN TO THE FACE OF THE CONCRETE.
 - MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,000 PSI.
 - ALLOWABLE SOIL BEARING PRESSURE ASSUMED IS 2,000 PSF, CONTRACTOR SHALL VERIFY.
 - TYPICAL DETAILS AND SCHEDULES SHALL APPLY WHERE MORE SPECIFIC INFORMATION IS NOT SHOWN.



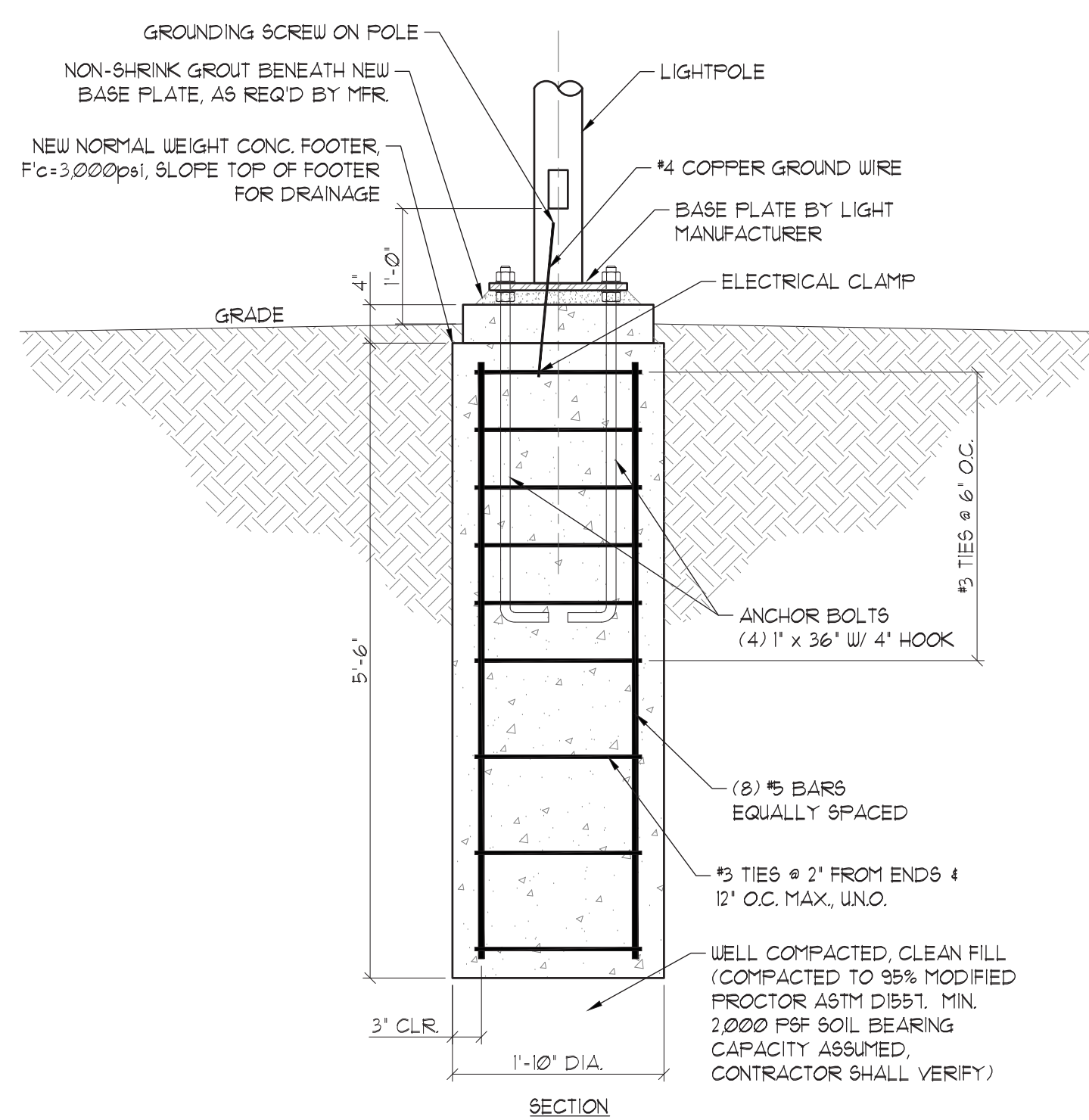
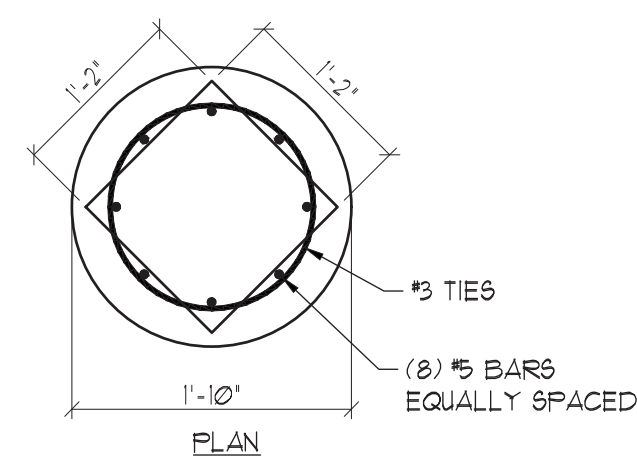
9 TWIN 90° LIGHT CONFIGURATION
SCALE: N.T.S.



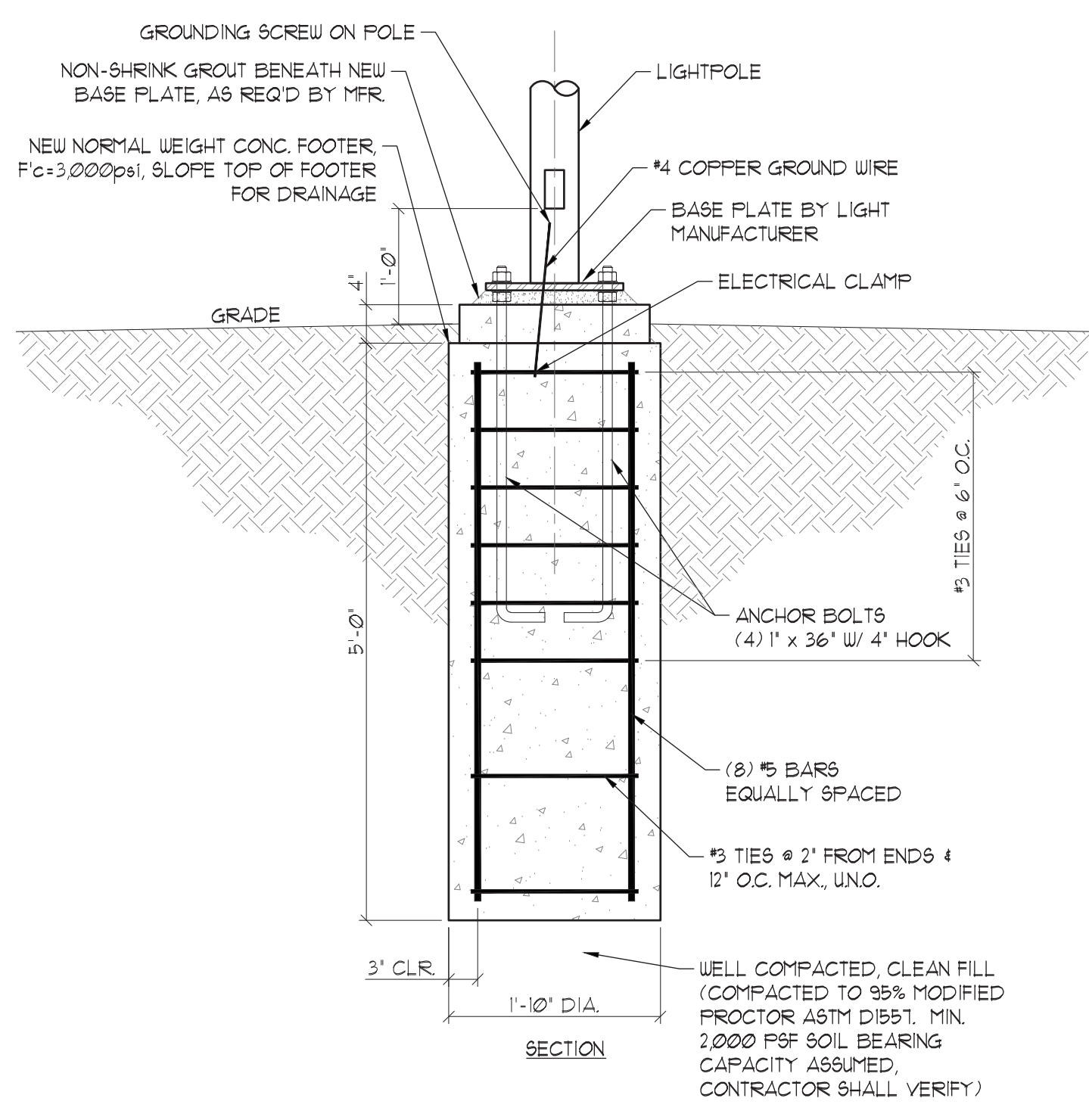
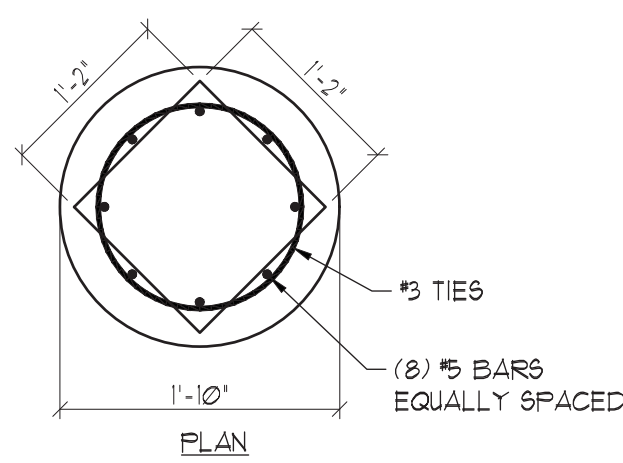
7 QUAD 90° LIGHT CONFIGURATION
SCALE: N.T.S.



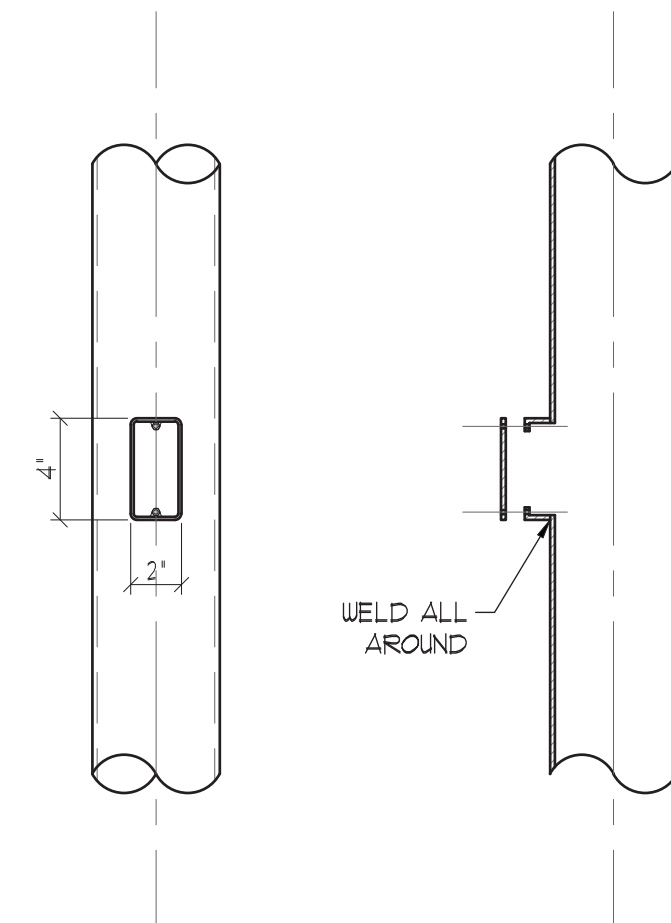
4 22' H LIGHT POLE ELEVATION
SCALE: N.T.S.



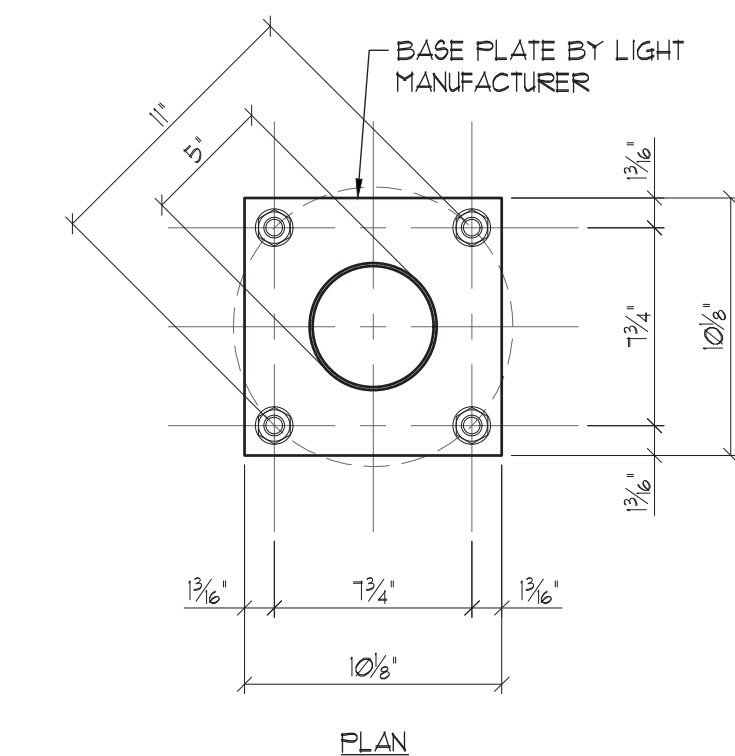
1 QUAD 90° LIGHT CONF. SURFACE MOUNTING DETAIL
SCALE: N.T.S.



2 TWIN 90° LIGHT CONF. SURFACE MOUNTING DETAIL
SCALE: N.T.S.



6 ACCESS HOLE DETAIL
SCALE: N.T.S.

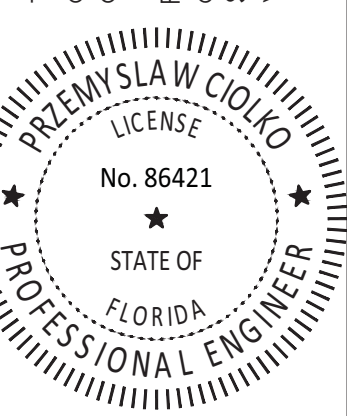


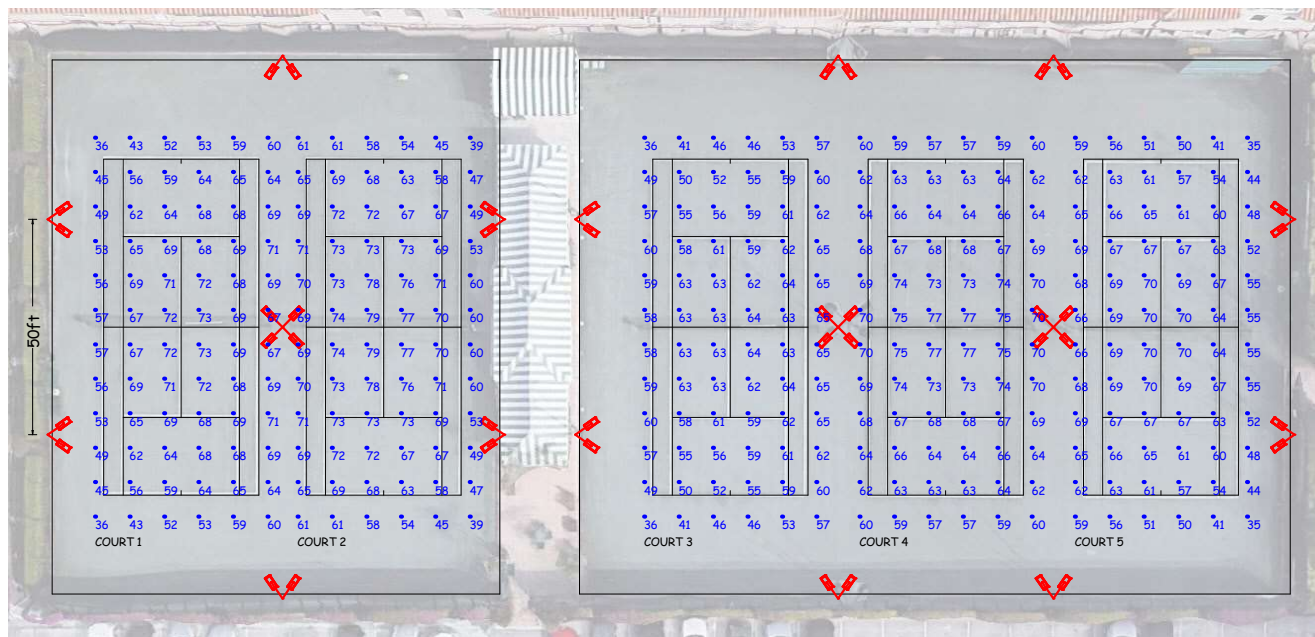
5 BASE PLATE DETAIL
SCALE: N.T.S.

REVISION:	
DATE	DESCRIPTION
04.29.22	1.00 PERMIT SET

VERSION NO. 1.00 / 04.29.22

This item has been digitally signed
and sealed by **Premyslaw Ciolko, PE**
on 4/29/2022 using a Digital Signature.
Printed copies of this document are not
considered signed and sealed and the
SHA authentication code must be
verified on any electronic copies.







The light levels shown are maintained using a .94 light loss factor (LLF). Light loss factors are used to adjust the light output of a luminaire operating in a controlled laboratory environment to the output obtained under actual field conditions. The LLF used in these calculations includes both recoverable and non-recoverable factors. Recoverable factors include luminaire dirt depreciation (LDD). Non-recoverable factors include optical system variations, and depreciation in initial luminaire lumen output. The use of the light loss factor shown requires making certain assumptions about the lighting system, the specific application, and the maintenance of the system over time. Therefore, actual light levels measured in the field may vary from the calculated values, especially in regards to individual location measurements.

Calculations use a LED Maintained Lamp Lumen factor based upon 50,000 hours of life, derived from IES TM21-11, and based upon an In-situ case temperature of 55°C.

Based on the information provided, all dimensions and luminaire Locations shown represent recommended positions. The engineer and / or architect must determine applicability of the layout to existing or future field conditions.

Filename: EVERGLADES3.AGI
Date: 5/18/2022

Luminaire Schedule								
Project: EVERGLADES CLUB								
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Description	Lum. Watts	Total Watts
	14	C	TWIN 70	60978	0.940	ZNL-60L-CT-50 (ZONE LARGE) @ 26' MTG. HT.	448	12544
	3	D	QUAD 90	60978	0.940	ZNL-60L-CT-50 (ZONE LARGE) @ 26' MTG. HT.	448	5376



Calculation Summary						
Project: EVERGLADES CLUB						
Label	CalcType	Units	Avg	Max	Min	Max/Min
COURT 1	Illuminance	Fc	62.25	73	36	2.03
COURT 2	Illuminance	Fc	65.36	79	39	2.03
COURT 3	Illuminance	Fc	57.53	65	36	1.81
COURT 4	Illuminance	Fc	66.69	77	57	1.35
COURT 5	Illuminance	Fc	60.42	70	35	2.00

Everglades Club
Palm Beach, FL

LSI Industries
10000 Alliance Road
Cincinnati, OH 45242
Voice Number : 513-666-4242





Catalog #: _____ Project: _____

Prepared By: _____ Date: _____ Type: _____

ZONE™ Medium (ZNM)

Outdoor Sports Light



IP66



ZONE

OVERVIEW

Lumen Output	24,000 - 48,000
Wattage	176 - 401
Efficacy Range (LPW)	122 - 150
Weight lbs (kg)	30 (13.6)

QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 5W, FT, FTA and AM.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377.
- Minimum CRI of 70
- Integral louver (IL) and house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 3 for more details.

Electrical

- High-performance driver features overvoltage, under-voltage, short-circuit

and over temperature protection.

- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L90 Calculated Life: >100k Hours (See Lumen Maintenance on Page 3)
- Total harmonic distortion: <20%
- Operating temperature: 24L to 36L: -40°C to +50°C (-40°F to +122°F). 42L and 48L: -40°C to +40°C (-40°F to +104°F)
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.

Controls

- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via iOS or Android configuration app.
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 8 for more details).

Installation

- Designed to mount to square or round poles.

- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block (accepts up to 12 ga. wire) and 5' dimming and power leads extended to the housing exterior.
- Utilizes LSI's B3 drill pattern for easy fastening of LSI products.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsiindustries.com/resources/terms-and-warranty.aspx> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet locations.
- IP66 rated Luminaire per IEC 60598-1.
- 3G rated for ANSI C136.31 high vibration applications applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)





ZONE Medium Outdoor Sports Light

ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **ZNM 48L CT UNV 50 ALBCS1 BLK IH**

Prefix	Output	Distribution	Orientation	Voltage	Color Temperature
ZNM - Zone Medium	24L - 24,000 lms 30L - 30,000 lms 36L - 36,000 lms 42L - 42,000 lms 48L - 48,000 lms Custom Lumen Packages ¹	CT - Court Optic FT - Forward Throw	(Blank) - Standard (no rotation) L - Optics rotated left 90° R - Optics rotated right 90°	UNV - Universal Voltage (120-277V) HV - High Voltage (347 - 480V)	50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT

Controls	Finish	Options
(Blank) - None Wireless Controls System ALSC - AirLink Synapse Control System ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor ALBCS01 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) ^{2,4} ALBCS02 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height) ^{2,4} Stand-Alone Controls EXT - 0-10v Dimming leads extended to housing exterior CR7P - 7 Pin Control Receptacle ANSI C136.41 ⁵ IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor max 8-24' mounting height ^{3,4} IMSBT2 - Integral Bluetooth Motion and Photocell Sensor max 25-40' mounting height ^{3,4}	BRZ - Bronze BLK - Black GPT - Graphite MSV - Metallic Silver WHT - White PLP - Platinum Plus GRN - Green	(Blank) - None IH - Integral Houseside Shield IL - Integral Louver (Sharp Spill Light Cutoff)

Accessory Ordering Information⁶

Controls Accessories	
Description	Order Number
Twist Lock Photocell (120V) for use with CR7P	122514
Twist Lock Photocell (208-277) for use with CR7P	122515
Twist Lock Photocell (347V) for use with CR7P	122516
Twist Lock Photocell (480V) for use with CR7P	1225180
AirLink 5 Pin Twist Lock Controller	61409
AirLink 7 Pin Twist Lock Controller	661410
Pole-Mounted Occupancy Sensor (24V)	663284CLR ⁸
Shorting Cap for use with CR7P ⁸	149328

Fusing Accessories	
Description	Order Number
Single Fusing (120V)	FK120
Single Fusing (277V)	FK277
Double Fusing (480V)	DFK480
Double Fusing (347V)	DFK347

Mounting Accessories	
Description	Order Number ⁹
Universal Mounting Bracket	684616CLR
Adjustable Slip Fitter (2" - 2 3/8" Tenon)	688138CLR
Horizontal Slip Fitter (2" - 2 3/8" Tenon)	652761CLR
Quick Mount Pole Bracket (Square Pole)	687073CLR
Quick Mount Pole Bracket (4-5" Round Pole)	689903CLR
15 Tilt Quick Mount Pole Bracket (Square Pole)	688003CLR
15 Tilt Quick Mount Pole Bracket (4-5" Round Pole)	689905CLR
Wall Mount Bracket	382132CLR
Integral Louver/Shield	690981
Internal Houseside Shield	743415
10' Linear Bird Spike Kit (3' Recommended per Luminaire)	736795

FOOTNOTES:

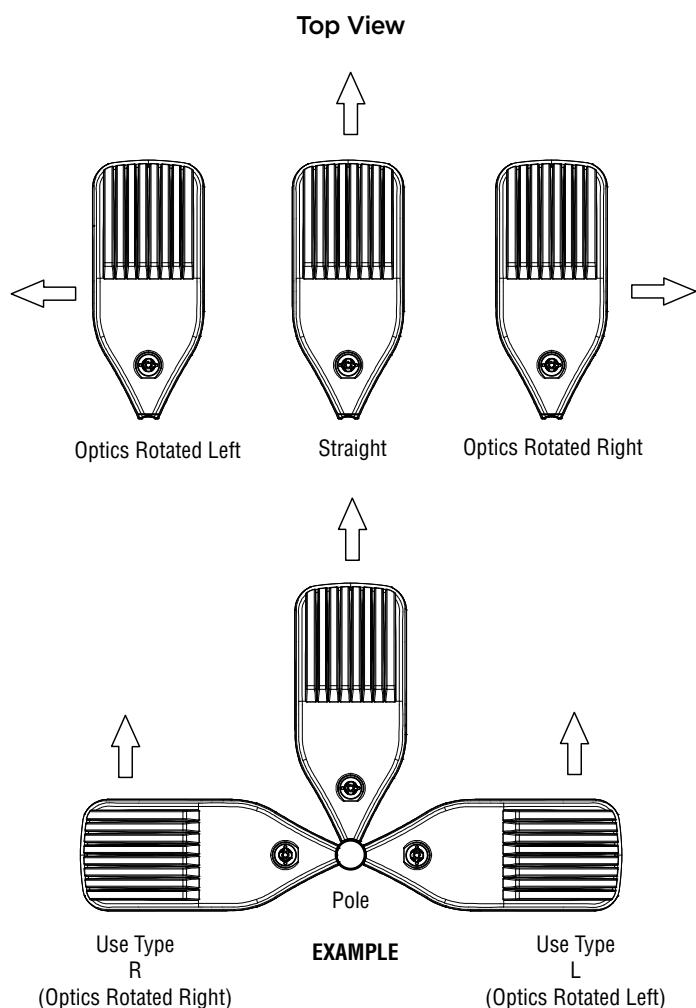
1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Consult factory for site layout.
3. Consult Facotry for 347-480V.
4. IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store. Consult Facotry for 347-480V.
5. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
6. Accessories are shipped separately and field installed.
7. Fusing must be located in hand hole of pole.
8. "CLR" denotes finish. See Finish options.





ZONE Medium Outdoor Sports Light

OPTICS ROTATION



ACCESSORIES/OPTIONS

Integral Louver (IL) and House-Side Shield (IH)

Accessory louver and shield available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (L) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate with the optical distribution.

Luminaire Shown with IMSBT & IL/IH Options



7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with PCR 7P





ZONE Medium Outdoor Sports Light

PERFORMANCE

[Back to Quick Links](#)

DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
24L	CT	70	26393	150	B3-U0-G2	26393	150	B3-U0-G2	26393	150	B3-U0-G2	176
	FT		25964	148	B3-U0-G4	25964	148	B3-U0-G4	25964	148	B3-U0-G4	
30L	CT		32960	142	B3-U0-G3	32960	142	B3-U0-G3	32960	142	B3-U0-G3	232
	FT		32424	140	B3-U0-G4	32424	140	B3-U0-G4	32424	140	B3-U0-G4	
36L	CT		38916	135	B3-U0-G3	38916	135	B3-U0-G3	38916	135	B3-U0-G3	288
	FT70		38283	133	B4-U0-G5	38283	133	B4-U0-G5	38283	133	B4-U0-G5	
42L	CT		44859	127	B4-U0-G3	44859	127	B4-U0-G3	44859	127	B4-U0-G3	354
	FT		44130	125	B4-U0-G5	44130	125	B4-U0-G5	44130	125	B4-U0-G5	
48L	CT		49615	124	B4-U0-G3	49615	124	B4-U0-G3	49615	124	B4-U0-G3	401
	FT		48809	122	B4-U0-G5	48809	122	B4-U0-G5	48809	122	B4-U0-G5	

*LEDs are frequently updated therefore values are nominal

ELECTRICAL DATA*						
Lumen Package	120V	208V	240V	277V	347V	480V
24L	1.47	0.85	0.73	0.64	0.51	0.37
30L	1.93	1.12	0.97	0.84	0.67	0.48
36L	2.40	1.38	1.20	1.04	0.83	0.60
42L	2.95	1.70	1.48	1.28	1.02	0.74
48L	3.34	1.93	1.67	1.45	1.16	0.84

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

RECOMMENDED LUMEN MAINTENANCE ¹					
Ambient Temp	Lumen Multiplier				
	0 hrs. ²	25K hrs. ²	50K hrs. ²	75K hrs. ³	100K hrs. ³
0 C - 25 C	100%	95%	89%	94%	79%
40 C	100%	94%	87%	80%	74%

FOOTNOTES:

- Lumen maintenance values at 40C are calculated per TM-21 based on LM-80 data and in-situ testing.
- In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
- In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.





ZONE Medium Outdoor Sports Light

PHOTOMETRICS

[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See <http://www.lsi-industries.com/products/led-lighting-solutions.aspx> for detailed photometric data.

ZNM-48L-CT-40

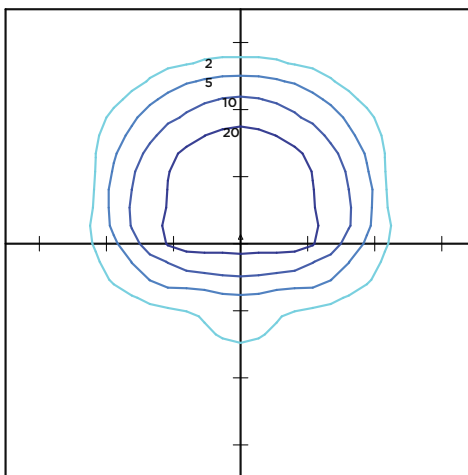
LUMINAIRE DATA

Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	48,211
Watts	400
Efficacy	121
IES Type	Type III - Very Short
BUG Rating	B4-U0-G3

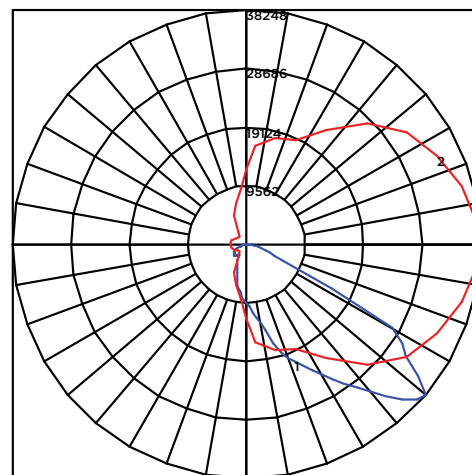
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	9897	21%
Medium (30-60)°	32201	67%
High (60-80)°	5593	12%
Very High (80-90)°	520	1%
Uplight (90-180)°	0	0%
Total Flux	48211	100%

ISO FOOTCANDLE



POLAR CURVE



20' Mounting Height/15' Grid Spacing

■ 20 FC ■ 10 FC ■ 5 FC ■ 2 FC

ZNM-48L-FT-40

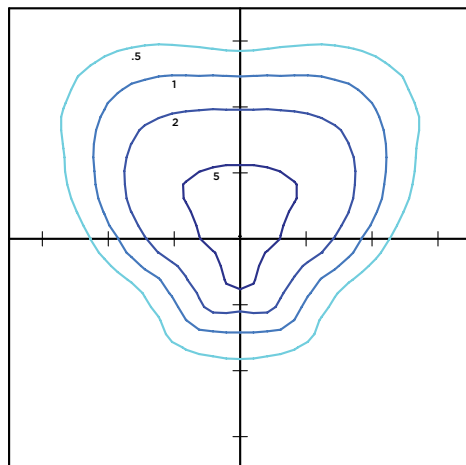
LUMINAIRE DATA

Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	48,055
Watts	400
Efficacy	120
IES Type	Type IV - Short
BUG Rating	B4-U0-G5

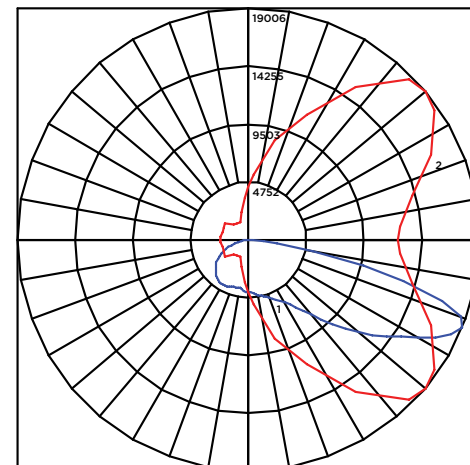
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	6199	13%
Medium (30-60)°	20250	42%
High (60-80)°	20684	43%
Very High (80-90)°	922	2%
Uplight (90-180)°	0	0%
Total Flux	48055	100%

ISO FOOTCANDLE



POLAR CURVE



20' Mounting Height/15' Grid Spacing

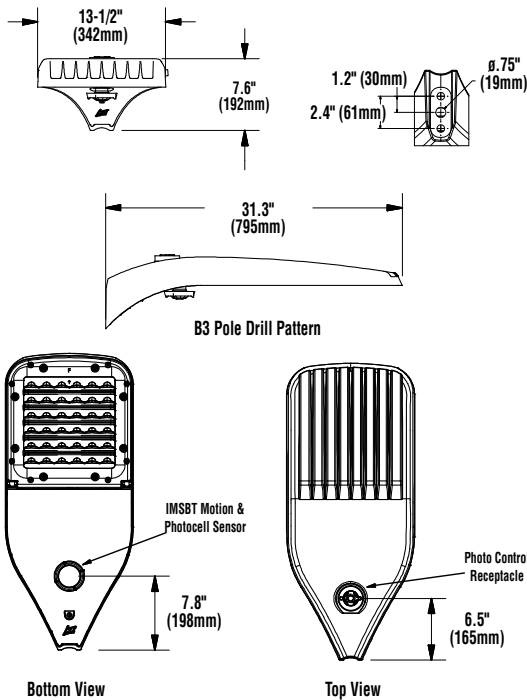
■ 20 FC ■ 10 FC ■ 5 FC ■ 2 FC





ZONE Medium Outdoor Sports Light

PRODUCT DIMENSIONS

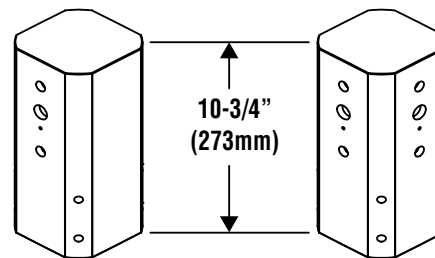
[Back to Quick Links](#)

LUMINAIRE EPA CHART - ZNM

Tilt Degree	0°	30°	45°	Tilt Degree	0°	30°	45°
Single	0.5	1.5	1.9	T90°	1.0	2.5	2.8
D180°	1.0	1.5	1.9	TN120°	1.0	3.3	3.9
D90°	0.8	1.9	2.3	Q90°	1.0	2.5	2.8

TENON BRACKETS (with 3" Reduced Drill Pattern)

BAK-XNM-*-CLR - Tenon mount fitter slip-fits 2-3/8" O.D. tenon (2.0 pipe tenon).



BAK-XNM-S or D180-*-CLR

Single/D180
(Drilled 2 Sides)

BAK-XNM-D90, T90 or Q90-*-CLR

D90/T90/Q90
(Drilled 4 Sides)





ZONE Medium Outdoor Sports Light

CONTROLS

AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture.

Click the link below to learn more details about AirLink.

<https://www.lsi-industries.com/documents/datasheets/airlink-outdoor-specsheet.pdf>

Integral Bluetooth™ Motion and Photocell Sensor (IMSBT)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

Click the link below to learn more details about IMSBT.

<https://www.lsi-industries.com/documents/datasheets/imsbt-specsheet.pdf>

AirLink Blue

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

Click the link below to learn more details about AirLink Blue.

<https://www.lsi-airlink.com/airlink-blue/>

POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times.

Click the link below to learn more details about poles & brackets.

<https://www.lsi-industries.com/products/poles-and-brackets-area-street.aspx>



BKA UMB CLR

The 3G rated UMB allows for seamless integration of LSI luminaires onto existing/ retrofit or new construction poles. The UMB was designed for square or round (tapered or straight) poles with two mounting hole spacings between 3.5" – 5".



BKS PQM15 CLR

The Pole Quick Mount Bracket allows for preset 15° uptilt of LSI luminaires for greater throw of light and increased vertical illumination as well as fast installation onto poles with LSI's 3" or 5" bolt pattern.



BKA ASF CLR

The adjustable Slip Fitter is a 3G rated rugged die cast aluminum adapter to mount LSI luminaires onto a 2" iron pipe, 2 3/8 OD tenon. The Adjustable Slip Fitter can be rotated 180° allowing for tilting LSI luminaires up to 45° and 90° when using a vertical tenon.



BKS PQMH CLR

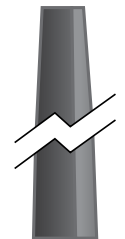
The Pole Quick Mount Bracket allows for lightning fast installation of LSI luminaires onto existing and new construction poles with LSI's B3 or B5 standard pole bolt patterns.



Square Pole
14'-39'

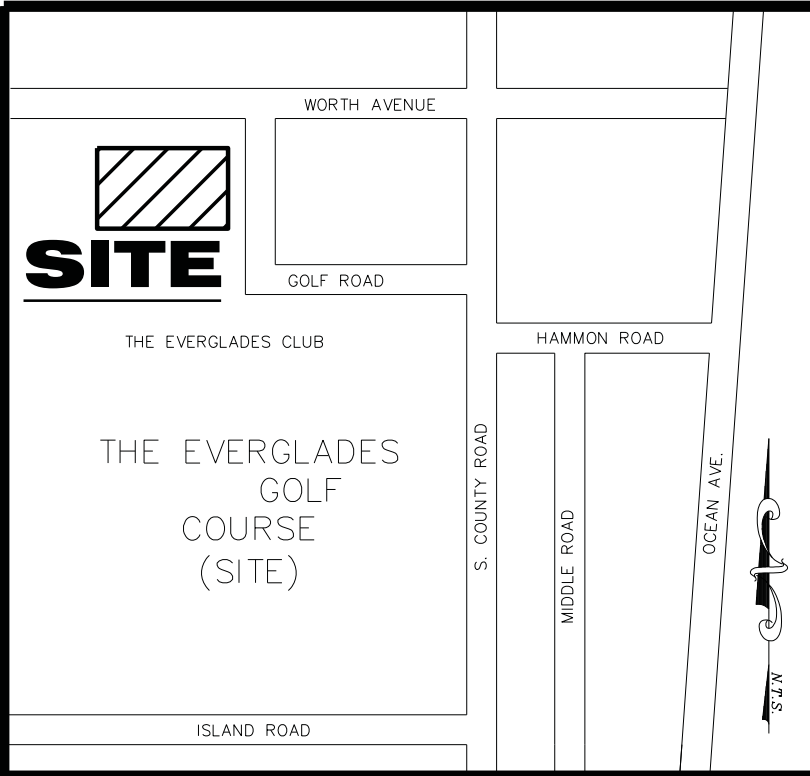


Round Pole
10'-30'



Tapered Pole
20'-39'





LOCATION MAP
NOT TO SCALE

THE EVERGLADES CLUB
(CORPORATE OFFICES)

WORTH AVENUE

LOT 6 LOT 7 LOT 17 LOT 18 LOT 19

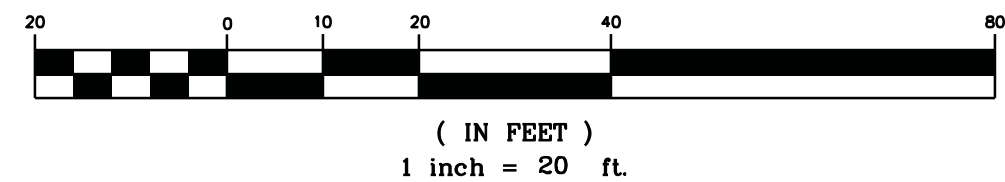
BLOCK 19

ROYAL PARK ADDITION
PLAT BOOK 4, PAGE 1

BUILDINGS



GRAPHIC SCALE



LEGAL DESCRIPTION:

BEING A PARCEL IN PORTIONS OF BLOCK 19, ROYAL PARK ADDITION AS RECORDED IN PLAT BOOK 4, PAGE 1, AND IN A PORTION OF LOT 16, GOLF VIEW AS RECORDED IN PLAT BOOK 7, PAGE 69, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, AND BEING IN A PORTION OF THAT TRACT KNOWN AS THE EVERGLADES GOLF COURSE LOCATED IN SECTION 27, TOWNSHIP 43 SOUTH, RANGE 43 EAST, TOWN OF PALM BEACH, FLORIDA.

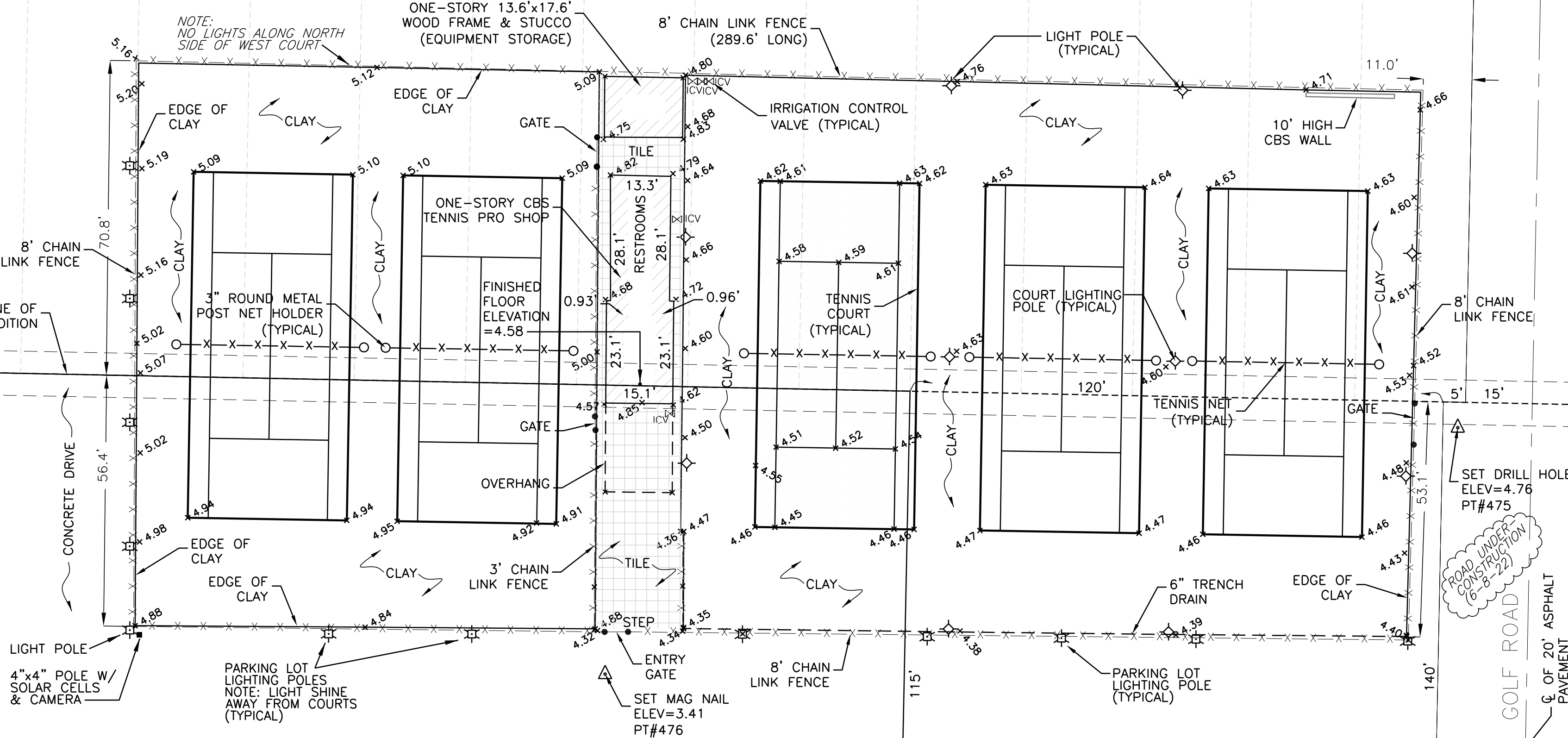
LAND SURVEYOR'S NOTES

1. THIS SURVEY WAS MADE WITH REFERENCE TO A SEARCH OF THE PUBLIC RECORDS ACCORDING TO AN OWNERSHIP AND ENCUMBRANCE TITLE REPORT PROVIDED BY SOUTHEAST GUARANTY & TITLE, INC., FILE NO. 201410004 DATED JUNE 1, 2022 AT 8:00 AM, AND ALL EASEMENTS NOTED IN SAID TITLE REPORT ARE SHOWN HEREON, AND THE OWNER OF THE PARCEL WAS IDENTIFIED AS THE EVERGLADES CLUB, INC., A FLORIDA CORPORATION.
2. BEARINGS REFER TO THE CENTERLINE OF GOLFVIEW ROAD AS SHOWN HEREON AND BEARS N 88°50'57" W. ALL OTHER BEARINGS ARE RELATIVE THERETO.
3. ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.'29), AND DERIVED FROM PALM BEACH COUNTY BENCH MARK "TR 13" AT INTERSECTION OF ROYAL PALM WAY AND SOUTH OCEAN BOULEVARD ELEVATION = 15.44
4. THE PROPERTY LIES WITHIN FLOOD ZONE "A7, OF THE FLOOD INSURANCE RATE MAP IDENTIFIED AS COMMUNITY PANEL No. 120220 0003 C DATED 9-30-82. BASE FLOOD ELEVATION=7.00
5. THIS SURVEY IS LIMITED TO THE LOCATION OF SURFACE IMPROVEMENTS AND VISIBLE UNDER GROUND UTILITIES ONLY. INVISIBLE UNDERGROUND UTILITIES, FOUNDATIONS, AND ENCROACHMENTS WERE NOT LOCATED OR SHOWN HEREON.
6. THE SYMBOLS SHOWN HEREON MAY HAVE BEEN ENLARGED FOR CLARITY. THE SYMBOLS HAVE BEEN PLOTTED AT THE CENTER OF THE FIELD LOCATION AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE.
7. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE SURVEY ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.
8. ALL SURVEY POINTS SET BY THIS FIRM ARE INSCRIBED "ADAIR & BRADY, INC." OR "A&B ENG.
9. THIS SURVEY WAS MADE FOR THE SPECIFIC PURPOSE OF LOCATING TENNIS COURT FACILITIES FOR PERMITTING.

LEGEND

CBS = CONCRETE BLOCK STRUCTURE
C = CENTER LINE
ELEV = ELEVATION
ICV = IRRIGATION CONTROL VALVE

BOUNDARY INFORMATION SHOWN WAS
COMPILED FROM VARIOUS SURVEYS.
FOR ADDITIONAL BOUNDARY INFORMATION,
SEE A&B DRAWING NO. FP 1793, DATED 1994
AND DRAWING NO. FP 1812-1



GOLF VIEW
PLAT BOOK 7, PAGE 69

GOLF ROAD (BASIS OF BEARINGS)
N 88°50'57" W

LAND SURVEYOR'S STATEMENT

WE HEREBY STATE THAT THE SPECIAL PURPOSE SURVEY SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE PROPERTY DESCRIBED IN THE CAPTION THEREOF, MADE UNDER OUR DIRECTION, AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

THE UNDERSIGNED FURTHER CERTIFIES THAT THIS SURVEY MEETS THE TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, PURSUANT TO SECTION 472.027 FLORIDA STATUTES.

F.R.S. & ASSOCIATES, INC.
CERTIFICATE OF AUTHORIZATION No. LB 4241
Dennis Painter, RLS
Dennis Painter, RLS
DATE: 2022.06.17 15:06:21 -0500


BY: DENNIS PAINTER
REGISTERED LAND SURVEYOR
FLORIDA CERTIFICATE NO. 3542
NOT VALID WITHOUT SIGNATURE AND EMBOSSED SURVEYOR'S SEAL AFFIXED.

F.R.S. & ASSOCIATES, INC.
LAND SURVEYORS AND LAND PLANNERS
CERTIFICATE OF AUTHORIZATION NO. LB 4241
2257 VISTA PARKWAY, SUITE 4
WEST PALM BEACH, FLORIDA 33411
PHONE (561) 478-7178
Web Site: www.frssurvey.com



SPECIAL PURPOSE SURVEY
OF TENNIS COURTS
FOR THE EVERGLADES TENNIS COURTS

1	6-8-22	E.C.	D.P.
UPDATE SURVEY			
REV.	DATE	DR.	CK.

DATE: JUNE 8, 2022	
PROJECT # 22-030	
SCALE: 1"=20'	
DR. SWM	CK. DP
F.B. 2	PGS. 51
D22-030	
	SHEET 1 OF 1