

#### **ADDENDUM NO. 1**

Addendum Publish Date: November 17, 2022

Bid Questions Due Date: November 15, 2022, 3:00pm EST November 22, 2022, 3:00pm EST Bid Name: FOREST PARK IMPROVEMENTS

Bid Number: WSPP-230023-GD

**NOTE:** The original Specifications remain in full force and effect except as revised by the following

changes which shall take precedence over anything to the contrary.

#### 1. Please find attached:

a. A copy of the Cone of Silence period information (Financial Procedures Manual Section 41-424 Prohibition of lobbying in procurement matters) that was discussed.

- b. A copy of the Pre-Bid Discussion/Information Checklist
- c. A copy of the Pre-Bid Sign-in Sheet
- d. Forest Park-Photometric Plan 10-26-22
- e. Forest Park-Sheet P1 11-16-22
- f. Forest Park-Sheet P2 11-16-22
- g. Forest Park-Sheet P3 11-16-22
- h. Forest Park-Sheet P4 11-16-22
- i. Forest Park-Sheet P5 11-16-22
- i. Forest Park-Sheet P6 11-16-22
- k. Forest Park-Sheet Vulcan Materials Company Goldhead Sand Plant Granularmetric Report

# 2. Following is a review of the Non-Mandatory Pre-Bid Meeting that was held at 4501 SW 20<sup>th</sup> Ave, Gainesville, FL 32607:

- a. City of Gainesville Staff represented by Gayle Dykeman, City of Gainesville Procurement Specialist III and Peter McNiece, Project Manager.
- b. Gayle Dykeman started the meeting by reviewing important Procurement areas of the solicitation, including the solicitation schedule and submittal due date.
  - 1. All communication must go through Gayle Dykeman throughout the duration of the solicitation.
  - All submittals must be entered in DemandStar.com by the due date and time –
     DemandStar is programmed to reject any bids that are entered after that time.
     DemandStar is a free tool for vendors to submit bids. DemandStar will automatically close the solicitation at the specified date and time, and the City will not accept any late proposals, regardless of the format presented.
  - 3. Provided guidance regarding the Cone of Silence.
  - 4. All other areas covered by Procurement are listed in the Pre-Bid Discussion/Information Checklist, Attachment A



Department of Financial Services
Procurement Division

- c. Peter McNiece, Wild Spaces & Public Places Project Manager provided an overview of the project. He indicated that the lighting for Forest Park would be handled by another vendor, and when an award is issued for this project, he would make appropriate introductions for coordination of work. He mentioned that the restrooms will not be renovated and will not be closed to the public. He discussed the major components of the project, including:
  - 1. Reconstruction of the soccer fields adding tons of fill to the area for proper drainage
  - 2. Reconstruction of the dog park to be expanded and include a dog wash area
  - 3. Reconstruction of the volleyball court
  - 4. Resurfacing of the basketball court
  - 5. Additional information can be found in the solicitation ARTICLE 2 THE PROJECT

#### 3. The following are questions and answers that were discussed in the meeting:

a. Question: What is the estimated or set budget for ITB # WSPP-230023-GD, Forest Park

Improvements?

Answer: The City of Gainesville has budgeted \$2.1 million for this project with the option

to commit additional funds if necessary.

b. Question: Who is responsible for making sure the lighting is installed properly? Who will do

the trenching for the lighting installation?

Answer: NGU Sports Lighting, Inc. will provide and install all products associated with the

field and court lighting. They are also responsible for any survey work associated with their scope of work. The general contractor's responsibility for field and court

lighting will end at electrical Panels H1/L1 & H2/L2.

Gainesville Regional Utilities will provide and install the parking lot lighting. The general contractor is responsible for running all conduit and conductors to the

GRU-approved 10" round Buried Wire Enclosures at the base of each pole.

c. Question: Is the basketball court to be ground and resurfaced? Or just resurfaced?

Specifically, what surface preparation, if any, is required on the basketball/pickleball court prior to resurfacing? There is cracking, cuts, and

evidence of ponding.

Answer: Courts to be resurfaced with Plexipave should be free of dust, dirt, oily materials,

and debris. Pressure wash the surfaces to remove any loose material or contaminants. Flood the entire area in full sunlight. After one hour, mark any puddled areas that exceed 1/8<sup>th</sup> inch in depth for repair using **Court Patch Binder** as per the Plexipave instructions (attached). **California Crack Filler** shall be applied by hand trowel or small broad knife to force crack filler into cracks. Fill any gaps in the concrete greater than ½" with high strength grout prior to

resurfacing.

d. Question: If we are removing the existing basketball goals, please provide more information

on the removal and how to treat the existing spaces. Are we to cut the poles at grade and infill with concrete? Cut the concrete, remove poles and patch? Please

clarify.

Answer: Remove the existing basketball poles by cutting the pole below grade and filling

the depression with high strength grout prior to resurfacing the courts.



Department of Financial Services
Procurement Division

e. Question: What is the material that will be used to resurface the basketball court?

Answer: See Symbol V in the Finish Schedule on Sheet L-208. Plexipave (or approved

equal) shall be used on the basketball/pickleball courts.

f. Question: Is there plastic sheeting underneath the basketball court concrete?

Answer: There does not appear to be any Visqueen plastic under the concrete.

g. Question: Sheet L209 at the volleyball court - detail 2. What type of sand will be used in the

volleyball court?

Answer: See Symbol Q in the Finish Schedule on Sheet L-208. Play Sand (or approved

equal) shall be used at the sand volleyball courts. The proposed substitution from the Vulcan Materials Company Goldhead Sand Plant appears to be equivalent but the contractor will have to submit a sample for review prior to final approval.

h. Question: How will the City protect the work site from public access?

Answer: Security of the jobsite will be the responsibility of the general contractor.

i. Question: Is the parking lot going to be resurfaced?

Answer: The parking lot will be seal coated and restriped.

j. Question: Are the existing sidewalks going to be rebuilt/resurfaced?

Answer: The general contractor will be responsible for replacing a total of 75 LF of 5' wide

sidewalk at two locations where it has fallen into disrepair. Owner will identify

sections to replace. Where roots are encountered, they must be cut flush.

k. Question: How does the DemandStar deadline work?

Answer: DemandStar blocks all bids received after the deadline. There is no flexibility,

even one second late - is too late. Procurement will not accept bids in any other format. Be sure to build time into your schedule to submit before the deadline.

4. The following are questions that have been received via email to Procurement before the Questions deadline:

a. Question: Verify that the striping will go back in as shown on C1.00. City is aware that the

existing lot has traffic arrows and stop signs which typically require stop bars. Verify none of this will be required. Just sealcoat & stripe as shown on the drawing. If required provide updated drawing so we can get out to our striping

contractors to show what is going to be required.

Answer: Restripe the parking lot exactly as shown on C1.11.

b. Question: Verify that sports lighting contractor will handle their own survey work.

Answer: Confirmed.

c. Question: Sheet L209 at the volleyball court Sports court detail #1 - states to see detail 4/L-

208 there is not a detail 4 on that page provide detail referenced.

Answer: Delete reference to Detail #4 on Sheet L-208 from Detail #1 on Sheet L-209.

d. Question: Please clarify that the City of Gainesville will be contracting directly with NGU

Sports Lighting, Inc. for the field and court lighting. Are we to include any panels, breakers or conductors for this lighting? Please clarify the extent of this scope.

Answer: The City of Gainesville will be contracting directly with NGU Sports Lighting, Inc.

for the field and court lighting. The general contractor is responsible for all electrical work to, and including, Panels H1/L1 & H2/L2. NGU Sports Lighting, Inc. will provide and install the light poles and lamps and run all conduits and



Department of Financial Services Procurement Division

conductors from the electrical panels to their lights. The general contractor is responsible for coordinating the work with NGU Sports Lighting, Inc.

e. Question: Sheet L209 at the volleyball court - detail 2: Calls for a foot of gravel under the

sand/fabric - are you going to require the DOT gravel as noted on civil detail or are you going to allow recycled especially since it is buried and not seen. Is recycled #57 stone going to be acceptable or is granite going to be required. Note on C2.30 states for it to be FDOT certified and recycled materials are not certified -but they are half the cost of granite materials & what is typically used in

the parks.

Answer: Use recycled #57 stone under the sand volleyball courts.

f. Question: Sheet L201 - Verify that the volleyball / basketball / pickle ball detail note for

layout is supposed to be as shown on L209 and not as noted L-208.

Answer: Use details on Sheet L-209 for the volleyball/basketball/pickleball courts.

g. Question: What is your intention for the electrical conduit going through the parking lot? Per

civil drawings we are to seal coat only except at the entrance. However per the P drawings it shows the conduits running through the parking lot in multiple

locations. Verify if conduit is to be installed by open cut or directional bore.

Answer: Contractor may directional bore or open trench. If the asphalt is cut, however,

use flowable fill as backfill and patch the asphalt prior to sealcoating.

h. Question: Verify all concrete is to have fiber per notes on C0.10 or do we go by the

concrete detail on C2.30 with no fiber.

Answer: All concrete shall have FiberMesh.

i. Question: Was there any particular style you would like to have Forest Park enmeshed on

the bench?

Answer: The park name enmeshed in the black metal backs of the Ultra Play benches is

laser-cut at the manufacturer and only available in a single font.

j. Question: How is the city handling escalations?

Answer: All materials should be ordered as soon as possible. The City of Gainesville will

pay for all materials that are delivered to the site. Any price escalations will be handled on a case-by-case basis but few, if any, are expected on this project.

k. Question: How is the city handling the long lead items that will impact time frames?

Answer: The only long-lead item we are currently aware of is the sports and field lighting

equipment. NGU Sports Lighting, Inc. has already started the procurement process so those materials will be onsite in early 2023. The general contractor is responsible for identifying and ordering all materials that could have a schedule impact as early as possible in the project. Immediately inform the City of Gainesville if any suppliers expect materials to arrive later than needed to complete the project on time. Electrical panels and the GRU-approved 10" round

Buried Wire Enclosures have been problematic on recent projects.

I. Question: The \$100,000 contingency per bid documents is that to be carried in our bid or is

city just informing us - how do you want us to carry?

Answer: For informational purposes only. The City of Gainesville intends to use these

funds in the event there are Owner-directed changes to the scope of work.



Department of Financial Services
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m. Question: Please provide more detail on the sub-base for the new sports grass.

Answer: All fill must comply with Paragraph 2.1 DEEP FILL in the Landscape

Specifications, Sheet L-310.

n. Question: Are there any plans to use synthetic turf?

Answer: No.

o. Question: Will any additional specifications be provided?

Answer: No.

p. Question: Confirm contractor is responsible for ROW permit work at rehabilitated entrance.

Answer: Confirmed.

q. Question: Section A-A on C2.11 is not shown on the plan. Appears to be across the

rehabilitated entrance. Please clarify.

Answer: Section A-A is a cut mid-way through the rehabilitated entrance.

r. Question: Who stripes the soccer fields? If Contractor, how are the soccer fields to be

striped and with what product?

Answer: The general contractor is responsible for the initial striping of the soccer fields.

The Gainesville Regional Soccer League will then assume this responsibility. Please coordinate with GRSL member John Malanchuk at (352) 359-1051. He uses a local vendor qualified to perform this work at a cost of \$300 per field.

s. Question: L-211 indicates concrete is 5" thick. Civil shows 4". Please clarify.

Answer: Sidewalks shall be 4" thick.

t. Question: Are mortar joints on 10' Kick Wall per L-212 to be tooled or struck flush? Confirm

top course is KO course. Confirm top of footer of Kick Wall is flush with finish grade, not covered. If confirmed, what is the finish of the exposed concrete at top of footer? Clarify paint system, i.e. how many coats, all exposed surfaces? (Note

the CMU is 12" block, not standard 8" block). Please clarify.

Answer: Mortar joints shall be struck flush and the top course a knock-out bond beam.

The top of light broom finished concrete footer shall be flush with grade with a slight pitch away from the wall to prevent standing water. Use 12"x 8"x 16" concrete block. All surfaces shall be painted with Sherwin Williams Anti-Graffiti

Coating.



Department of Financial Services
Procurement Division

u. Question: We are going to bid on the sports equipment, site furnishings and shade

structures for Forest Park. I have the plans but don't see anything with

quantities?

Answer: Note that one of the benches in the pavilion is an ADA bench.

Item No.	Item	Qty	Unit
Α	Table	14	EA
В	Bench	12	EA
С	Player Bench	22	EA
D	Bleachers	30	EA
E	Grill	1	EA
F	Trash Receptacle	8	EA
Н	Water Fountain	7	EA
_	Dog Washing Station	1	EA
J	Shade Structure	13	EA
К	Pavilion	1	EA
Υ	Bollard	130	EA
Z	Removable Bollard	9	EA
AA	Storage Bin	1	EA

#### **Additional Changes:**

Please incorporate the attached photometric plan and six power sheets (P-1, P-2, P-3, P-4, P-5, and P-6) dated 11-16-22 into the bid set of drawings. There has been a substantial redesign of the electrical system to accommodate the increased lighting requirements. The system was converted to 480V.

The fencing on the west side of the basketball/pickleball courts will be 10' tall with windscreens instead of the 4' tall fencing called for on the plans.

<u>ACKNOWLEDGMENT:</u> Each Proposer shall acknowledge receipt of this Addendum No. 1 by his or her signature below, <u>and a copy of this Addendum to be returned with proposal.</u>

#### **CERTIFICATION BY PROPOSER**

The undersigned acknowledges receipt of this Addendum No. 1 and the Proposal submitted is in accordance with information, instructions, and stipulations set forth herein.

PROPOSER COMPANY NAME:		
SIGNATURE:	 -	
LEGIBLY PRINT NAME:		
DATF:		



#### CITY OF GAINESVILLE FINANCIAL SERVICES PROCEDURES MANUAL

#### 41-424 Prohibition of lobbying in procurement matters

Except as expressly set forth in Resolution 170116, Section 9, during the Cone of Silence as defined herein no person may lobby, on behalf of a competing party in a particular procurement process, City Officials or employees, except the Procurement Division or the procurement designated staff contact person. Violation of this provision shall result in disqualification of the party on whose behalf the lobbying occurred.

Cone of Silence period means the period between the issue date which allows for immediate submittals to the City of Gainesville Procurement Division in response to an invitation to bid, or a request for proposal, or qualifications, or information, or an invitation to negotiate, as applicable, and the time that City Officials or the Procurement Division, or City Department awards the contract.

Lobbying means when a person seeks to influence or attempt to influence City Officials or employees with respect to a decision of the City, except as authorized by procurement procedures.



City of Gainesville Procurement Division 200 E University Avenue, Rm 339 Gainesville, FL 32601 (352) 334-5021(main)

# ATTACHMENT A PRE-BID DISCUSSION/INFORMATION CHECKLIST

BID NAME: Forest Park Improvements

BID NUMB	ER:	WSPP-230023-GD	PRE-BID MEETING DATE: 11/9/22, 1:30pm EST
	Introdu Manag		Gayle Dykeman, Procurement Specialist, Peter McNiece, Projec
	https://		cussion addressed at the pre-bid will be available through ire Addendums. There is no cost to the vendor to use all vendor of Gainesville solicitation.
	Any qu	estions must be in writing	
	– En	nail to <u>dykemangb@gainesvill</u>	<u>efl.gov</u>
	– Qu	estions Deadline: <u>November</u>	15, 2022, 3:00pm EST
		nmunication, contact and/or co Purchasing Division staff. CON	orrespondence must be with <u>dykemangb@gainnsvillefl.gov</u> or IE OF SILENCE
	sta		nyone other than <u>Gayle Dykeman</u> or CITY Purchasing Division r than": Department Staff, City Manager, City elected officials,
	Bid Du	e Date: <u>November 22, 2022 a</u>	t 3:00PM local time
	Location	on to receive bids: Demandsta	r.com.
	Deviat	ons – Article 13.12	
	Local F	Preference - Article 23	
	Small	and Service Disabled Veteran	Business Participation – Article 1, C.
	Living	wage – Article 25	
	Adden – Sig	da gn and return each addendum	with bid

### CITY OF GAINESVILLE GENERAL GOVERNMENT PROCUREMENT DIVISION NON-MANDATORY PRE-BID CONFERENCE

Forest Park Improvements

DATE: November 9, 2022, 1:30pm EST

BID #WSPP-230023-GD

BID DUE DATE: November 22, 2022 @ 3:00PM EDT

	UR <u>COMPANY'S</u> NAME, ADDRESS & ONE NUMBER	<u>YOUR</u> SIGNATURE, PRINTED <u>NAME</u> , EMAIL ADDRESS & FAX NUMBER
1)	Plo Scaled ASPRait inc	SIGNATURE
	matthew cox	PRINTED NAME
	4221 South Point BLVD Jax FL 32216	E-MAIL: matt. cox/aprosealed as Phait. com
	PHONE # (904) 451-8616	FAX # ()
2)	Pro Sealed Asphalt inc.	prof Monther
	Jereny Holcombe	Jeremy Holcombe
	4221 Southpoint Blvd Jow, FL 32216	E-MAIL: Jeremyh @prosealedusphon/+.com
	PHONE # (904) 315-6356	FAX # ()
3)	Joyner Construction Partous	ACC STENATURE
	7545 W. University Ave, Suite B	Ryland Wagner
	Garresville, FL 32607	E-MAIL: info@) oyne - construction no
	PHONE # (352) 332-8171	FAX # ( <u>753</u> 332-9777
	Aug 1 T	A market and
4)	AKEA, Inc	SIGNATURE
	3603 NW 98 H St Jules	PRINTED NAME
	64 nesvice, Fl. 32600	E-MAIL: deansoy a akeaine.
	PHONE # (352) 284-9271	FAX # (
5)	Hollas Consdoction	Mating
	12000 West Parmer Lane	Mark Molzer
	A-Stin, TX 78613	E-MAIL: MOIZET Cherry Construction
	PHONE # (512) 250 7910	FAX # (S12) 250- 1960
	Cell # (904) 465-2306	

#### CITY OF GAINESVILLE GENERAL GOVERNMENT PROCUREMENT DIVISION NON-MANDATORY PRE-BID CONFERENCE

Forest Park Improvements

DATE: November 9, 2022, 1:30pm EST

BID #WSPP-230023-GD

BID DUE DATE: November 22, 2022 @ 3:00PM EDT

YOUR <u>COMPANY'S</u> NAME, ADDRESS & PHONE NUMBER  6) Delroll Gastruction Inc  275 NW 137th Dr. Mart A  Newberry, F2 32669  PHONE # 941) 780-2700	YOUR SIGNATURE, PRINTED NAME, EMAN ADDRESS & FAX NUMBER  Steve Arragion  E-MAIL: Saving Tong of Azh construction  FAX # ()
7) 80 1 1 7 1 1 20 1 3 7 1 Dr. Unit A Newberry, FL 32669 PHONE # (352) 472-1334	Brent Overtart  E-MAIL: boverfurt & value construct  FAX # ()
8) PUREWS TAVING INC 6327 NW 125th Pl GAINESVILLE FL 32683 PHONE # (386 462-1115	SIGNATURE  JON ANDERSON  E-MAIL: JONG ANDREWSPANING INC. CO.  FAX # (38) 462 - 468
9) Florida Green Keepershk 1401 NW 53 Are Gainesville FL 32609 PHONE # ()	E-MAIL: Chois of londings can keepers  FAX # ()
10) Decker (onstruction) [503 NW 16+h Ave  (rainesville)  PHONE # (352) 448 1428  352 318 9149	E-MAIL: Kaline deckerch. Con  FAX # ()

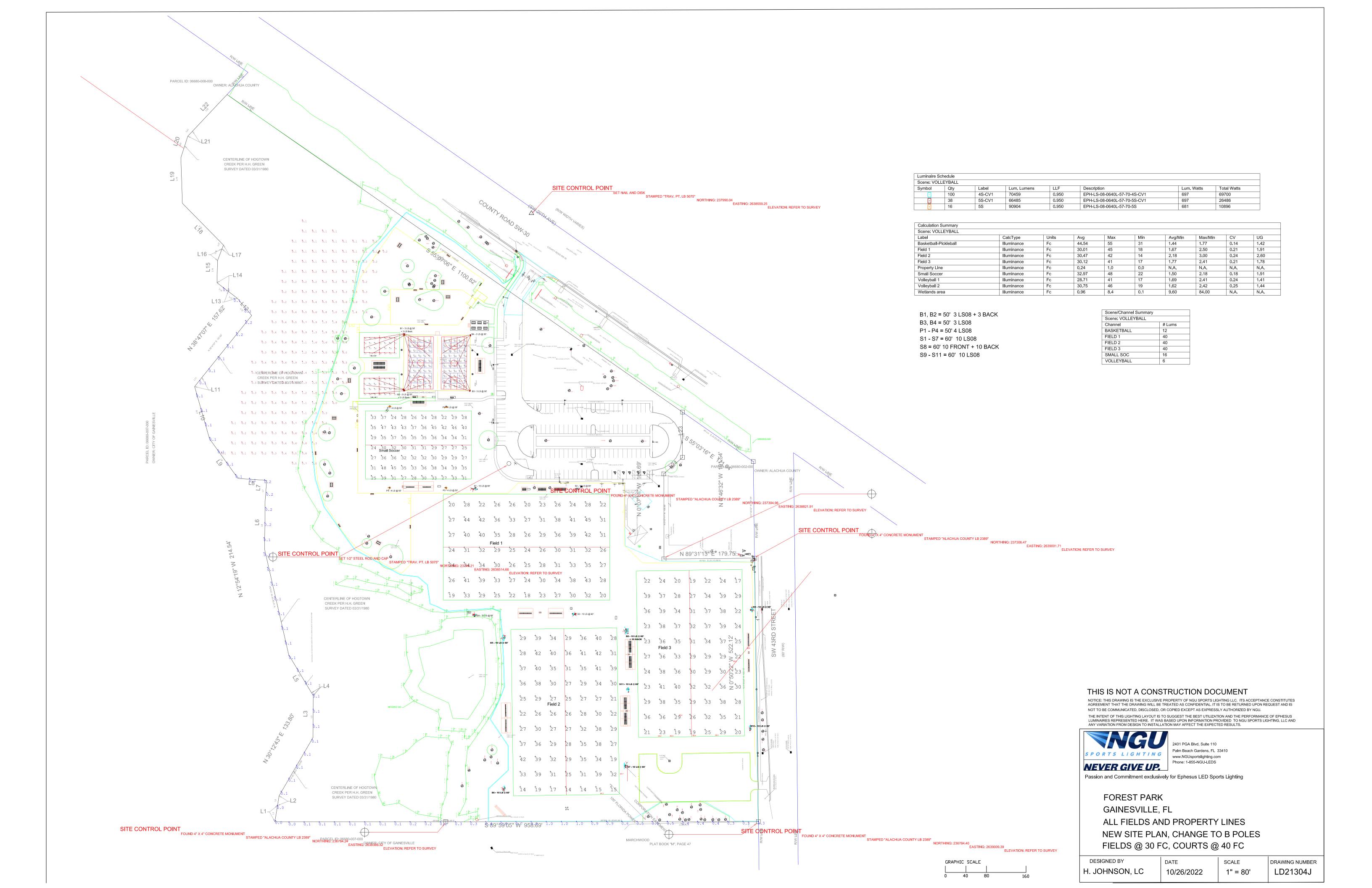
#### CITY OF GAINESVILLE GENERAL GOVERNMENT PROCUREMENT DIVISION NON-MANDATORY PRE-BID CONFERENCE

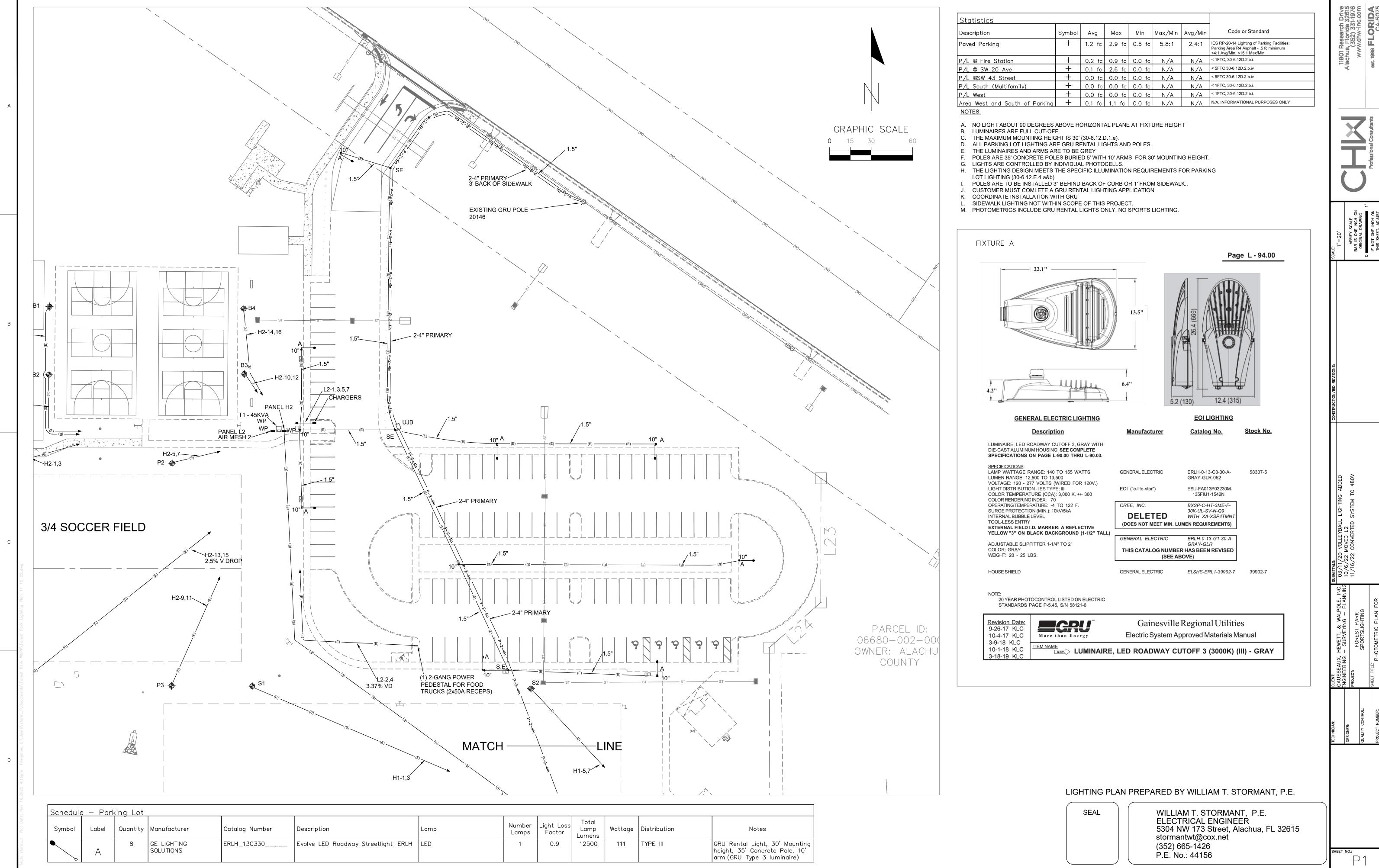
Forest Park Improvements

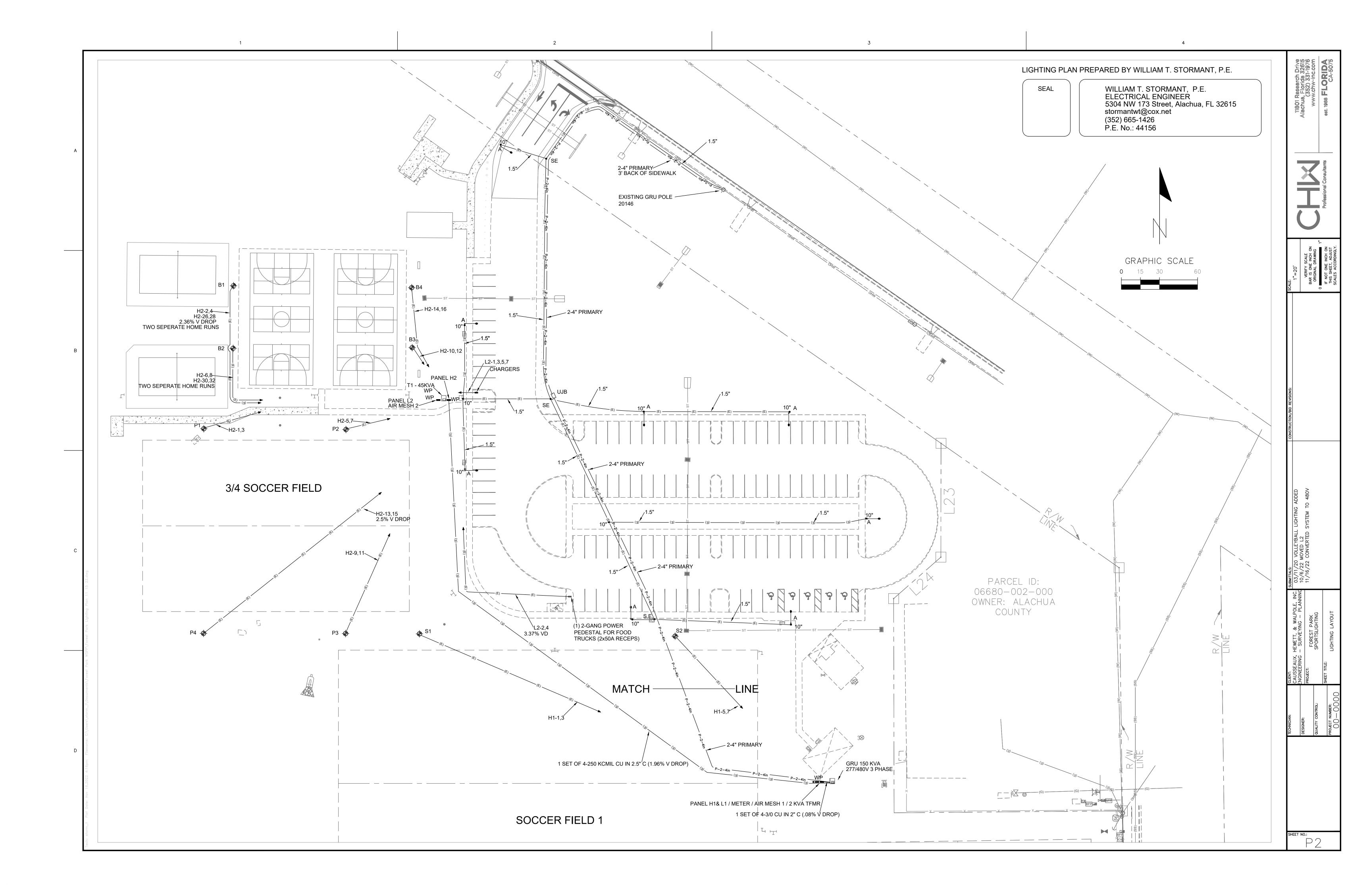
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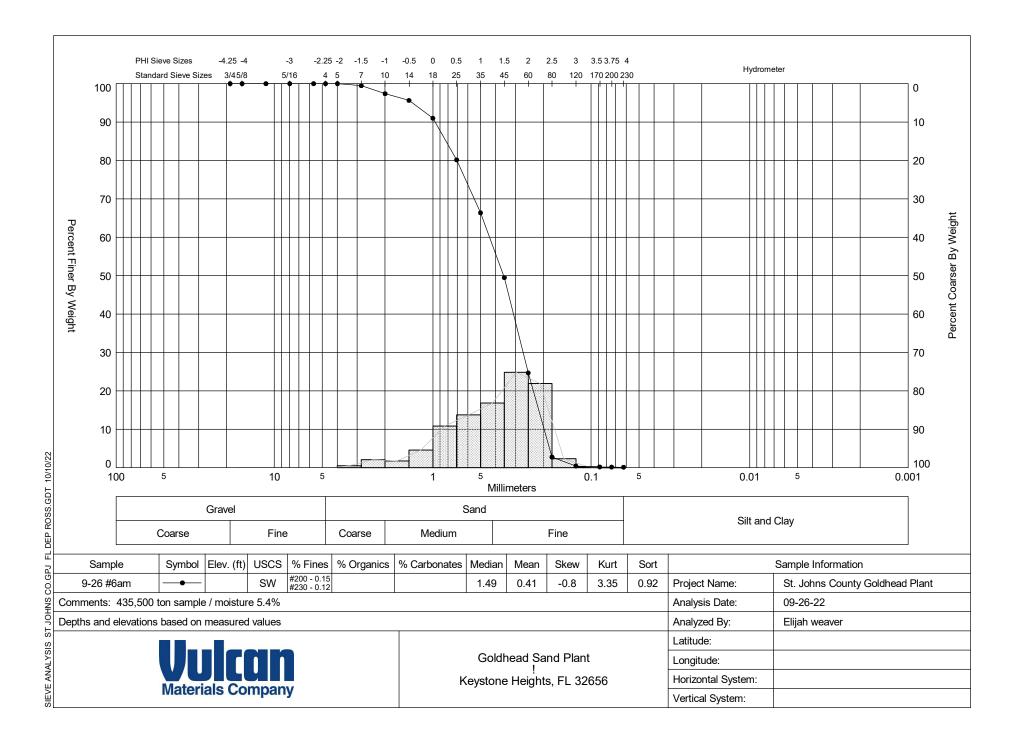
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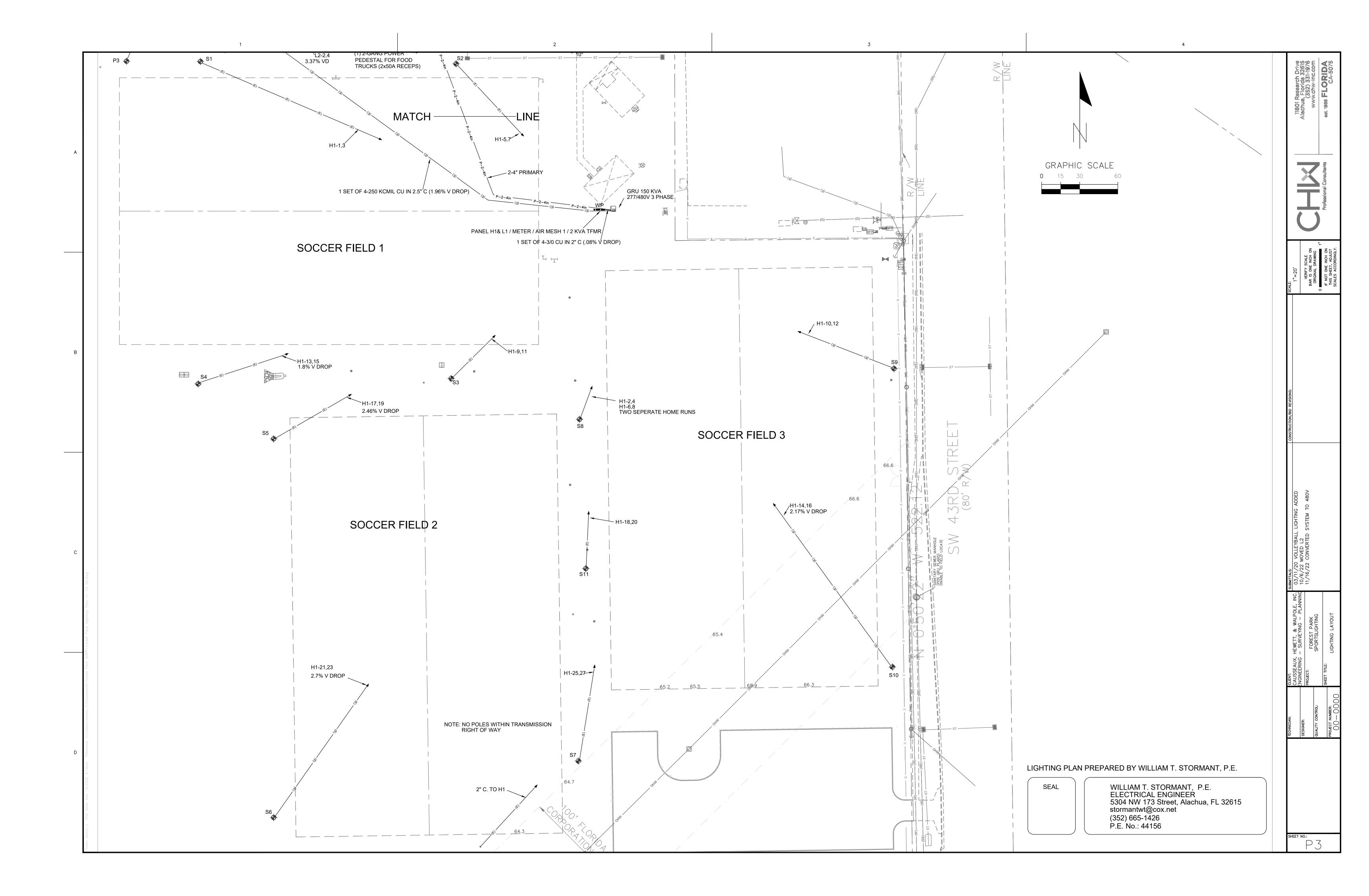
YOUR <u>COMPANY'S</u> NAME, ADDRESS & PHONE NUMBER	YOUR SIGNATURE, PRINTED NAME, EMAIL ADDRESS & FAX NUMBER
KEE Erusina Soutrons	SIGNATURE
GLEN ST MORNY, FL 32050	E-MAIL: TUSSES ( KEEFES ION COM
PHONE # (504) 275 - 25w	FAX # ()
12)	SIGNATURE
	PRINTED NAME E-MAIL:
PHONE # ()	FAX # ()
13)	SIGNATURE
	PRINTED NAME E-MAIL:
PHONE # ()	FAX # ()
14)	SIGNATURE
	PRINTED NAME E-MAIL:
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15)	
	SIGNATURE
	PRINTED NAME E-MAIL:
PHONE # ()	FAX # ()











39

41

3/4" X 20'-0" MINIMUM COPPER

CLAD GROUND ROD, 15 OHMS

MAXIMUM RESISTANCE.

LIGHTS X 1.25 =111,000 VA (68103 VA CONNECTED) AIR MESH = 180 VA

42

40 2 \*

=111,180 VA (134 AMP, PROVIDE 200A SERVICE 1 SETS 4-3/0 IN 2"C)

TVSS

= 180 VA (PROVIDE 20 A FEEDER TO 3 KVA TRANSFORMER)

\* - SIZE TVSS BREAKER PER MANUFACTURER SPECIFICATIONS.

<b>BRANCH CIRCU</b>	IT	PA	NE	LB	OA	RD	SCHE	EDULE	=						PANE	L H2
FOR 480/277 VOLT, THREE PHA 200 AMP. MAIN BREAKER, 22,00	•															
SERVING		WIRE	Ξ.	BRE	AKER	CIR	CONN	ECTED	CIR	BREA	AKER		WIRE		SERVING	
POLE ZONE	нот	NEUT	GRD		POLES		LOAD	VA	NO				NEUT	нот		ZONE
LIGHT POLE P-1 - SOCCER "3/4"	8		8	20	2	1	2960	2220	2	2	20	8		8	LIGHT POLE B1 -	BASKET BALL
	8					3			4					8	(EASTSIDE OF PO	DLE)
LIGHT POLE P-2 - SOCCER "3/4"	8		8	20	2	5	2960	2220	6	2	20	8		8	LIGHT POLE B2 -	BASKET BALL
	8					7			8					8	(EASTSIDE OF PO	DLE)
LIGHT POLE P-3 - SOCCER "3/4"	8		8	20	2	9	2960	2220	10	2	20	8		8	LIGHT POLE B3 -	BASKET BALL
	8					11			12					8		
LIGHT POLE P-4 - SOCCER "3/4"	8		8	20	2	13	2960	2220	14	2	20	8		8	LIGHT POLE B4 -	BASKET BALL
	8					15			16					8		
50 KVA FOR L2	1		6	125	2	17	36020		18							
	1					19			20							
						21			22							
						23			24							
						25		2220	26	2	20	8		8	LIGHT POLE B1 -	VOLLEYBALL
						27			28					8	(WESTSIDE OF P	OLE)
						29		2220	30	2	20	8		8	LIGHT POLE B2 -	VOLLEYBALL
						31			32					8	(WESTSIDE OF P	OLE)
						33			34							
						35			36							
						37			38							
						39			40	2	*				TVSS	
						41			42							

FOOD TRUCKS AIR MESH

TOTAL

LIGHTS X 1.25 = 31450 VA (25,160 VA CONNECTED) CHARGERS X 1.25 = 16640 VA (13,312 VA CONNECTED) = 19200 VA (\* ASSUMED 80% OF 100 A)

= 180 VA

= 67470 VA (81 AMP, PROVIDE 200 AMP PANEL, 4-250 KCMIL CU IN 2.5" C.)

\* - SIZE TVSS BREAKER PER MANUFACTURER SPECIFICATIONS.

BRANCH CIRCUIT PANELBOARD SCHEDULE PANEL L1															
FOR 240/120 VOLT, SINGLE PH 60 AMP. MAIN LUG ONLY, 22,0	,											BAR.			
WIRE BREAKER CIR CONNECTED CIR BREAKER WIRE															
SERVING	НОТ	NEUT							NO		POLES AMP GRD NEUT HO		NEUT HOT	SERVING	
MAIN (BACK FED *)	12	12	12	15	2	1			2					SPACE	
	12					3			4					SPACE	
AIRMESH 1- SOCCER 1, 2, 3	12	12	12	15	1	5	180		6					SPACE	
* - PROVIDE HOLD DOWN CLIP						AIR	MESH	_=	180	) VA					

BRANCH CIRC	UIT I	PA	NE	LB	AC	RE	SCHE	DULE							PANEL L2
FOR 240/120 VOLT, SINGLE P 200 AMP. MAIN BREAKER, 22													ENTI	RANCE	E RATED.
SERVING		WIRE	<b>=</b>	BREA	AKER	CIR	CONNI	ECTED	CIR	BREA	KER		WIRE		SERVING
POLE ZONE	НОТ	NEUT	GRD	AMP	POLES	NO	LOAD	VA	NO	POLES	AMP	GRD	NEUT	НОТ	
CHARGER 1 - PORT 1	8		10	40	2	1	6656	*19200	2	2	100	8	3/0	3/0	FOOD COURT PEDESTAL
	8					3			4					3/0	
CHARGER 1 - PORT 2	8		10	40	2	5	6656	180	6	1	20	12	12	12	AIRMESH 2-BBALL/3/4 SOCCER
	8					7			8						
						9			10						
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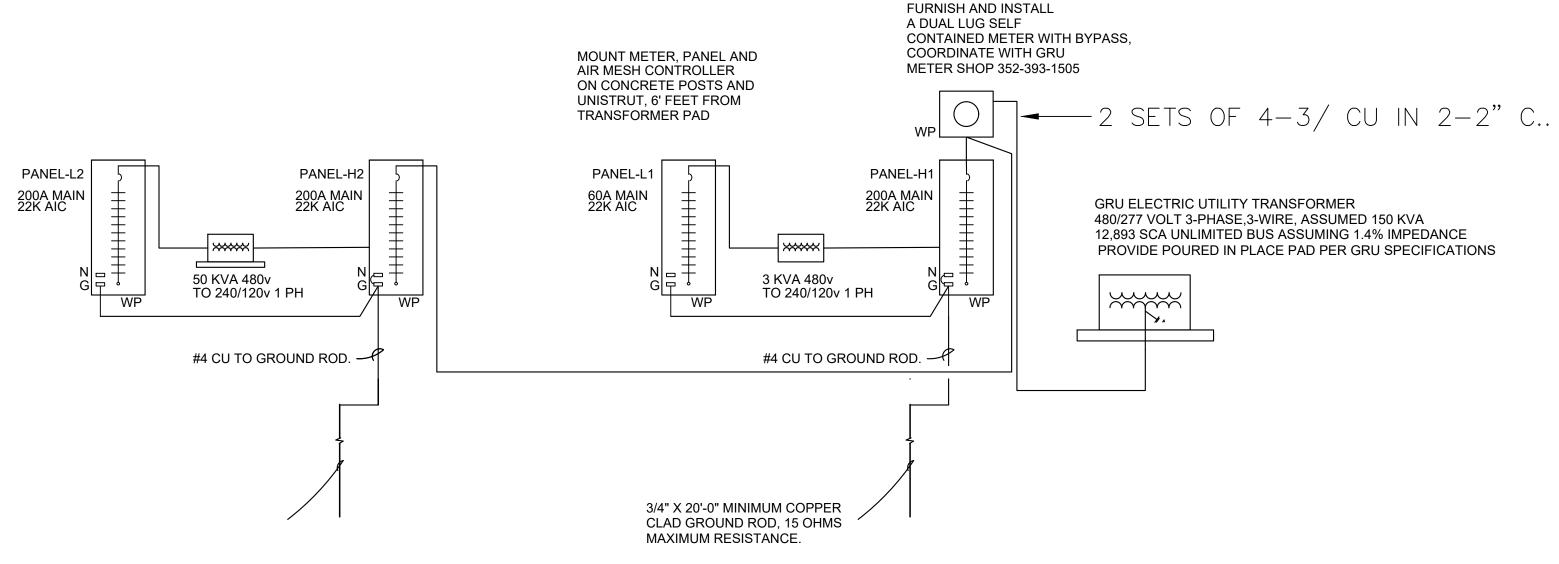
AIR MESH

TOTAL

CHARGERS X 1.25 = 16640 VA (13,312 VA CONNECTED) = 19200 VA (\* ASSUMED 80% OF 100 A) = 180 VA

= 36020 VA (150 AMP, PROVIDE 200 AMP PANEL, 3-3/0 & #4 EGC CU)

\* - SIZE TVSS BREAKER PER MANUFACTURER SPECIFICATIONS.



# ELECTRICAL DISTRIBUTION ONE LINE DIAGRAM

ZONE SCHEDULE NO CONTACTORS, ALL POLES CONTROLLED VIA THE RESPECTIVE AIR MESH

SERVING		CONT	ROL	QUAN OF
POLE	ZONE	CABIN	IET	LIGHTS
LIGHT POLE S-1 -	SOCCER 1	AIR ME	SH 1	10
LIGHT POLE S-2 -	SOCCER 1			10
LIGHT POLE S-3 -	SOCCER 1			10
LIGHT POLE S-4 -	SOCCER 1			10
LIGHT POLE S-3 -	SOCCER 2			10
LIGHT POLE S-4 -	SOCCER 2			10
LIGHT POLE S-5 -	SOCCER 2			10
LIGHT POLE S-6 -	SOCCER 2			10
LIGHT POLE S-5 -	SOCCER 3			10
LIGHT POLE S-6 -	SOCCER 3			10
LIGHT POLE S-7 -	SOCCER 3			10
LIGHT POLE S-8 -	SOCCER 3	,		10/10
LIGHT POLE S-9 -	SOCCER 3			10
LIGHT POLE S-10	- SOCCER 3			10
LIGHT POLE S-11	- SOCCER 3			10
LIGHT POLE P-1 -	SOCCER "3/4"	AIR ME	SH 2	4
LIGHT POLE P-2 -	SOCCER "3/4"			4
LIGHT POLE P-3 -	SOCCER "3/4"			4
LIGHT POLE P-4 -	SOCCER "3/4"			4
LIGHT POLE B-1 -	BASKETBALL	FRONT		3
LIGHT POLE B-2 -	BASKETBALL	FRONT		3
LIGHT POLE B-3 -	BASKETBALL			3
LIGHT POLE B-4 -	BASKETBALL			3
LIGHT POLE B-1 -	VOLLEYBALL	BACK		3
LIGHT POLE B-2 -	VILLEYBALL	BACK		3

# POLE SCHEDULE

	MOUNTIN
POLES	HEIGHT
S1-11	60'
P1-P4 (3/4 SIZE SOCCER FIELD)	50'
B1-B4	50'

LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

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P4

#### A. GENERAL

1. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ITEMS FOR THE FOLLOWING COMPLETE AND OPERATING SYSTEMS: UTILITY CONDUIT (PRIMARY AND PARKING RENTAL LIGHTING) INFRASTRUCTURE, AND COMPLETE SPORTS LIGHTING SYSTEMS (PANELS, WIRE, STEP DOWN TRANSFORMERS, ETC.)

2. THE SPORTS LIGHTING SYSTEM SHALL BE PROVIDED AS DESIGNED IN THE SHEET TITLED FOREST PARK BY NGU SPORTS LIGHTING, INC.

BASIS OF DESIGN IS NGU SPORTS LIGHTING INC, EPHESUS LED SPORTS LIGHTING SYSTEM. 3. OBTAIN AND PAY ALL FEES AND PERMITS REQUIRED TO INSTALL THE COMPLETE SYSTEMS.

4. IT IS THE INTENT OF THESE DRAWINGS TO PROVIDE A COMPLETE ELECTRICAL SYSTEM, REGARDLESS OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.

5. THE WORK SHALL COMPLY WITH ALL LEGALLY REQUIRED CODES AND STANDARDS, INCLUDING: NFPA 70, NATIONAL ELECTRICAL CODE LATEST EDITION NECA STANDARD OF INSTALLATION.

NFPA 72 LATEST ADOPTED REVISION FLORIDA BUILDING CODE LATEST REVISIONS. NFPA 101 LATEST ADOPTED REVISION ADA LATEST ADOPTED REVISION

UNDERWRITER'S LABORATORY STANDARDS (UL).

GAINESVILLE REGIONAL UTILITY STANDARDS AND POLICIES.

CITY OF GAINESVILLE CODE OF ORDINANCES ILLUMINATION ENGINEERING SOCIENTY HANDBOOK 10TH EDITION OTHER APPLICABLE CODES AND STANDARDS THAT APPLY TO THIS TYPE OF CONSTRUCTION.

#### B. MATERIALS AND WORKMANSHIP

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY PLACEMENT OF ALL CONDUITS, JUNCTION BOXES, CABINETS, TEMPORARY ELECTRICAL SERVICE, SPORTS LIGHTING ASSEMBLIES AND OTHER WIRING DEVICES AS THE CONSTRUCTION PROGRESSES.

2. OUTLET BOXES SHALL BE STEEL 4" SQUARE X 1.5" DEEP MINIMUM LOCATED AS FOLLOWS: WALL SWITCHES 48" ABOVE FINISHED FLOOR TO CENTERLINE TO MEET ADA. CONVENIENCE OUTLETS 18" ABOVE FINISHED FLOOR OR AS NOTED. EQUIPMENT OUTLETS AS REQUIRED BY THE EQUIPMENT.

3. WIRING SYSTEMS SHALL BE AS FOLLOWS: UNDERGROUND MAY BE SCHEDULE 40 PVC. MC CABLE OR EMT WHERE PERMITTED BY CODE.

RIGID GALVANIZED STEEL WHERE REQUIRED BY CODE. FLEXIBLE STEEL CONDUIT WHERE REQUIRED, LIQUID TIGHT WHERE REQUIRED.

4. CONDUCTORS SHALL BE COPPER TYPE THWN-2.

5. CONVENIENCE RECEPTACLES SHALL BE 15 AMP. NEMA 5-15R, UNLESS NOTED OTHERWISE.

6. WALL SWITCHES SHALL BE 20 AMP. 120/277 VOLT AC.

7. PANELBOARDS SHALL BE BY SQUARE D.

8. ALL METAL BOXES, CABINETS, CONDUIT, EQUIPMENT, ETC. SHALL BE GROUNDED AS REQUIRED BY CODE. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR ALL CIRCUITS.

9. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ITEMS AND EQUIPMENT SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRE ELECTRICITY, INCLUDING

10. FUSES SHALL BE DUAL-ELEMENT CURRENT LIMITING FUSES IN ALL DISCONNECT SWITCHES OR OTHER FUSIBLE DEVICES. FURNISH A SPARE FUSE OF EACH TYPE USED ON THE JOB.

11. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT MOTOR STARTERS, RELAYS, SWITCHES, AND RELATED ITEMS WHICH ARE SPECIFIED BY OTHERS.

12. ALL MATERIAL SHALL BE NEW AND UL APPROVED, LISTED, OR LABELED.

CONTROL WIRING AND WIRING TO CONNECT EXISTING EQUIPMENT.

13. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.

14. CONTRACTOR SHALL MAKE COMPLETE CONNECTIONS TO ALL EQUIPMENT. COORDINATE WITH

EQUIPMENT SUPPLIER FOR EXACT LOCATIONS AND REQUIREMENTS.

15. CONTRACTOR SHALL PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSORS AT PANELS H1 & H2 CAPABLE OF PROVIDING 40 KA PROTECTION PER PHASE. SERVICE ENTRANCE RATED AND UL 1449 LISTED.

# ELECTRICAL NOTES

1.	FOR THE UTILITY SYSTEM, INSTALL LONG RADIUS SWEEPS AT UTILITY POLE, PADS AND ALL CHANGES OF DIRECTION.
	INSTALL PRIMARY CONDUITS WITH 48" COVER STREET LIGHT CONDUITS WITH 36" OF COVER. VERIFY REQUIREMENTS WITH
	GRU. PROVIDE SINGLE PHASE TRANSFORMER PADS (B-3), UD JUNCTION BOXES (B-21), UD SERVICE ENCLOSURES (B-24),
	10" BURIED WIRE ENCLOSURES (B-26) PADS AS PÈR GRU REQUIREMENTS. PAGÈS NOTED IN PARENTHESIS ARE FOUND IN
	GRU ED SERVICE GUIDE APPENDICES.

2. COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC. WITH ARCHITECTURAL AND CIVIL PLANS PRIOR TO INSTALLATION. DO NOT SCALE ELECTRICAL DRAWINGS.

NOT USED.

PROVIDE INSULATED GROUNDING CONDUCTOR FROM EACH EQUIPMENT CONNECTION AND OUTLET TO GROUNDING BAR IN PANELBOARDS.

5. PROVIDE AN INSULATED GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS.

CONTRACTOR SHALL PROVIDE ADDITIONAL JUNCTION BOXES, CONDUCTORS AND OTHER MATERIALS AND LABOR NECESSARY TO CONNECT PARALLEL OR OVERSIZED FEEDER RUNS WHERE SUCH FEEDERS EXCEED CONNECTION CAPACITY OF CIRCUIT BREAKERS, PANELBOARDS AND OTHER CONNECTION POINTS.

RISER DIAGRAMS SHOW ONLY THE GENERAL CONFIGURATION OF THE SYSTEM. REFER TO THE APPROPRIATE DRAWINGS FOR EXACT DEVICE, QUANTITIES AND LOCATIONS.

8. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL DEVICES,

9. ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED IN DAMP AREAS OR OUTDOORS SHALL BE WEATHERPROOF.

10. GROUND RODS SHALL BE INSTALLED AT ALL LIGHTING POLES IN ACCORDANCE WITH THE NEC.

11. ALL SPORTS LIGHTING FIXTURES SHALL BE FUSED.

12. PULL BOXES SHALL BE PROVIDED AS NECESSARY OF SECONDARY CONDUIT RUNS.

13. ANY SUBSTITUTIONS MUST BE APPROVED PRIOR TO SUBMITTING BID.

14. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL OUTLETS, DEVICES, LIGHT FIXTURES, ETC.

15. ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.

16. EXISTING UTILITIES AND OTHER UNDERGROUND OR CONCEALED ITEMS ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL ITEMS NOT SHOWN MAY BE PRESENT AND LOCATIONS MAY DIFFER FROM THAT SHOWN. CONTRACTOR SHALL EXCAVATE AND CONDUCT DEMOLITION SO AS TO AVOID DAMAGE TO EXISTING ITEMS, SHALL NOTIFY OWNER AND ENGINEER AT ONCE OF ALL DAMAGE AND SHALL REPAIR DAMAGE TO ORIGINAL CONDITION TO THE SATISFACTION OF OWNER AND ENGINEER AT NO CHANGE IN CONTRACT AMOUNT.

SPORTS LIGHTING POLE AND FIXTURES. "S13" INDICATES POLE IDENTIFIER. FOR HEIGHT OF POLE AND NUMBER FIXTURES REFER TO POLE SCHEDULE PARKING LUMINAIRE AND POLE. "A" INDICATES TYPE LUMINAIRE AND POLE.

UNDERGOUND DISTRIBUTION JUNCTION BOX FOR GRU PRIMARY CABLE.

SERVICE ENCLOSURE - JUNCTION BOX FOR GRU SECONDARY CABLE

10" \* BURIED WIRE ENCLOSURE - 10" ROUND JUNCTION BOX FOR GRU SECONDARY CABLE

WP DUPLEX RECEPTACLE OUTLET WITH GROUND - NEMA 5-20R WEATHERPROOF

GFI DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTING 18"A.F.F. -NEMA 5-20R

© EQUIPMENT CONNECTION OUTLET - VERIFY LOCATION

JUNCTION BOX

\$ SINGLE POLE SWITCH 48"A.F.F. OR AS INDICATED

TRANSFORMER

BRANCH CIRCUIT PANELBOARD, "L1" IS PANEL IDENTIFIER

SAFETY SWITCH - RATING AND FUSING AS INDICATED

HOMERUN TO PANELBOARD. "L1" INDICATES THE PANELBOARD NUMBER. "1,3" INDICATES THE BRANCH CIRCUIT NUMBERS.

C CONDUIT STUB-UP

# LIGHTING FIXTURE SCHEDULE TYPE | VOLTAGE DESCRIPTION 120V COBRAHEAD, FULL CUTOFF, 140-155W HPS, TYPE 3 DISTRIBUTION STREET LIGHT ON 35' CONCRETE POLE. 30' MOUNTING HEIGHT, 10' ARM GRU RENTAL LIGHT AND POLE. SEE SHEET P1. 240V SPORTS LIGHTING - BASIS OF DESIGN NGU EPHESUS LIGHTING SYSTEM - REFER TO SPORTS LIGHTING SPECIFICATION DOCUMENT FOR DETAILS.

# FLECTRICAL ABBREVIATIONS

Α	AMPS	HOA	HAND-OFF-AUTOMATIC
AICS	AMPS INTERRUPTING CAPACITY SYMMETRICAL	K	KILO
BKR	BREAKER	LTG	LIGHTING
С	CONDUIT	MTD	MOUNTED
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
GRU	GAINESVILLE REGIONAL UTIITIES	NO	NORMALLY OPEN CONTACTS
CU	COPPER	NC	NORMALLY CLOSED CONTACT
EX	EXISTING TO REMAIN	OHE	OVERHEAD ELECTRIC
F	FUSE	OHP	OVERHEAD PRIMARY
FTC	FOOT CANDLES	Р	POLE
GFI	GROUND FAULT INTERRUPTER	PWR	POWER
GRD	GROUND	RGS	RIGID GALVANIZED STEEL
		SF	SUPPLY FAN
		UGE	UNDERGROUND ELECTRIC
		UGP	UNDERGROUND PRIMARY
		UGS	UNDERGROUND SECONDARY
		UL	UNDERWRITERS LABORATORIE
		V	VOLTS
		VA	VOLT-AMPERES
		VAR	VOLT-AMPERES REACTIVE
		VD	VOLTAGE DROP%
		W	WATTS OR WIRE

# GENERAL SPECIFICATIONS FOR SPORTS LIGHTING SYSTEM

- FURNISH AND INSTALL SPORTS LIGHTING SYSTEMS MEETING IESNA RECOMMENDATIONS FOR RECREATION LEVEL PLAY FOR THE FOLLOWING LOCATIONS: THREE FULL SIZE SOCCER FIELDS, A 3/4 SIZE SOCCER FIELD, TWO BALL COURTS AND TWO VOLLEYBALL COURTS AS SHOWN ON THE PLANS.
- 2. THE BASIS OF DESIGN OF EPHESUS LIGHTING SYSTEMS. IF A DIFFERENT SYSTEM IS PROPOSED, THE REVISED PHOTOMETRIC PLAN AND EQUIPMENT CUT SHEETS MUST BE SUBMITTED TO THE ENGINEER/OWNER FOR APPROVAL.
- 3. THE LIGHTING SYSTEM IS CONTROLLED BY WAY OF A CELLULAR CONTROLLED WIRELESS MESH SYSTEM THAT IS ACCESSED VIA CELLPHONE AND COMPUTER TERMINAL. THE BASIS OF DESIGN IS LUMASPORT 8 AIRMESH SYSTEM (2 REQUIRED). THIS SYSTEM DOES NOT REQUIRE CONTACTORS.
- 4. THE LIGHTS MUST BE 5700 DEGREES KELVIN, LED AND SHIELDED OR SHROUDED. BASIS OF DESIGN IS EPHESUS LUMASPORT 8, 240V RATED. REFER TO NGU PLAN FOR TYPE AND QUANTIES.
- 5. ONE BRANCH CIRCUIT WILL FEED EACH POLE. EACH LIGHT TO BE FUSED INDIVIDUALLY AT POLE LOCATED POWER DISTRIBUTION BOX.
- POLES ARE TO BE SIZED TO MEET FLORIDA BUILDING CODE WIND LOADING REQUIREMENTS. POLES WITHIN 20' OF THE TRANSMISSION LINE SHALL BE DESIGNED TO MEET RISK CATEGORY 4. THE BASIS OF DESIGN IS CONCRETE POLES WITH MOUNTING HEIGHTS AS SHOWN IN THE POLE SCHEDULE.
- 7. ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
- SPORTS LIGHITNG SYSTEM SHALL MEET APPLICABLE ILLUMINATING ENGINEERING SOCIETY RECOMMENDATIONS FOR THE BASKET BALL AND SOCCER FIELDS FOUND IN THE IESNA LIGHTING HANDBOOK 10TH EDITION. THE ILLUMINATION LEVELS AT THE SOUTHERN PROPERTY LINE SHALL NOT EXCEED 1 FOOT—CANDLE AS REQUIRED
- 9. THE WIRING FROM THE POLE DISTRIBUTION BOX TO THE LIGHTS SHALL BE PRE TERMINATED BY THE MANUFACTURER.
- THE LIGHTING DESIGN PROPOSAL FROM THE LIGHTING MANUFACTURER SHALL INCLUDE QUOTATION, BILL OF MATERIALS, PHOTOMETRIC DRAWING DESIGN PLAN, PRODUCT SPECIFICATION SHEETS, INSTALLATION MANUALS, AND INSTALLATION

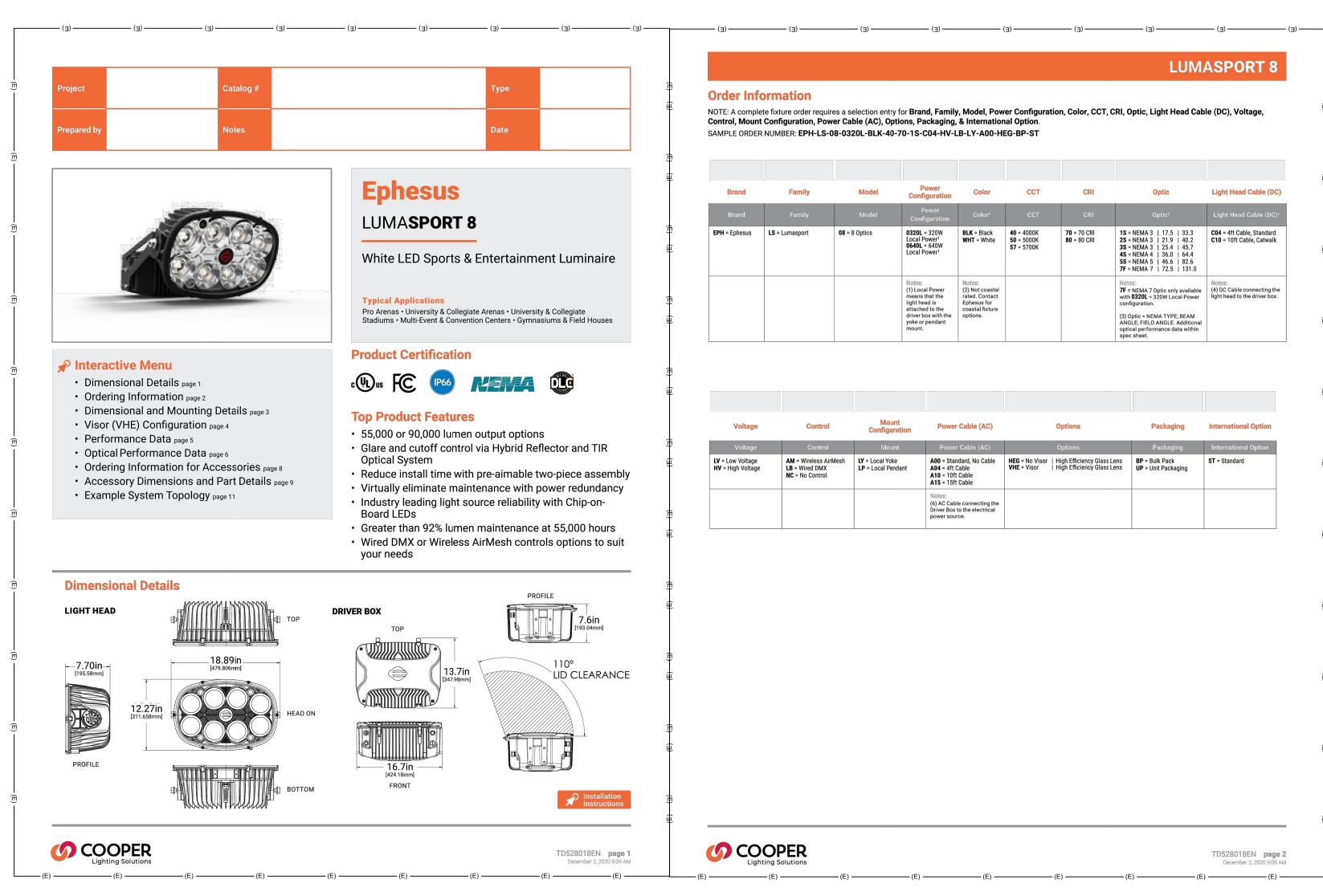
LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT. P.E.

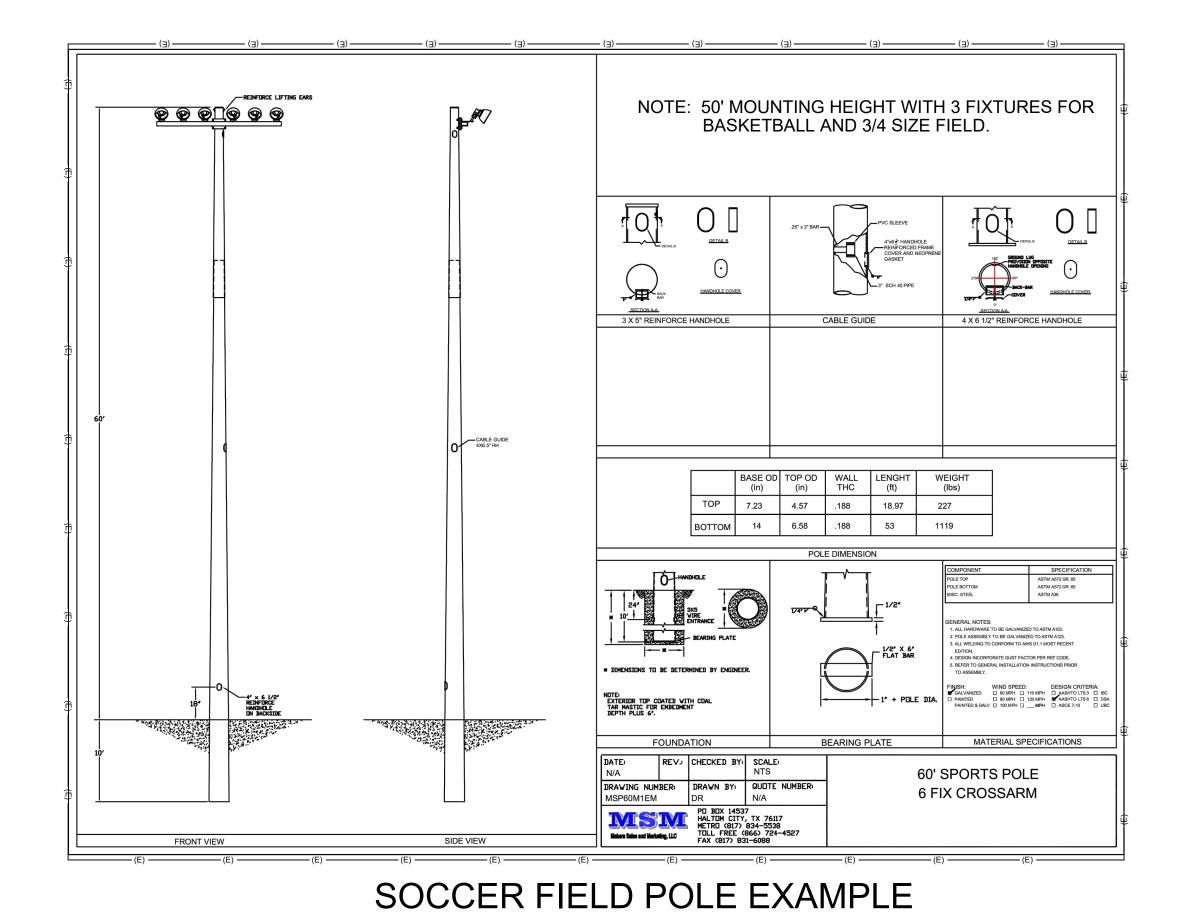
WP WEATHERPROOF

ø PHASE

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ORIDA CA-5075





DO NOT USE FOR POLE SIZING FOR WIND LOADING

# SPORTS LIGHTING FIXTURE

REFER TO NGU PLAN FOR MODEL NUMBERS



LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

SEA

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P6

**Granularmetric Report**Depths and elevations based on measured values

Project Name: St. Johns County Goldhead Plant

Sample Name: 9-26 #6am Analysis Date: 09-26-22

Analyzed By: Elijah weaver



Goldhead Sand Plant Keystone Heights, FL 32656

Latitude: Longitude: Coordinate System: Elevation (ft): USCS: Munsell: Comments: SW Wet - 7.5YR-8/1 435,500 ton sample / moisture 5.4% Dry Weight (g): Wash Weight (g): Pan Retained (g): Sieve Loss (%): Organics (%): Carbonates (%): Shells (%): Fines (%): #200 - 0.15 #230 - 0.12 331.50 331.10 0.00 0.00 0.00 Cum. Grams C. % Weight Sieve Size Sieve Size Grams % Weight Sieve Number Retained Retained (Millimeters) Retained Retained (Phi) 3/4" -4.2519.03 0.00 0.00 0.00 5/8" -4.00 16.00 0.00 0.00 0.00 0.00 0.00 11.31 0.00 0.00 0.00 11/16" -3.505/16" -3.008.00 0.00 0.00 0.00 0.00 3.5 -2.50 5.66 0.00 0.00 0.00 0.00 4 -2.254.76 0.00 0.00 0.00 0.00 5 0.00 0.00 -2.004.00 0.00 0.00 7 1.80 0.54 0.54 -1.502.83 1.80 10 -1.00 2.00 6.90 2.08 8.70 2.62 5.80 1.75 4.37 14 -0.501.41 14.50 18 0.00 1.00 15.30 4.62 29.80 8.99 25 0.50 0.71 36.00 10.86 65.80 19.85 35 1.00 0.50 45.70 13.79 111.50 33.63 45 1.50 0.35 55.90 16.86 167.40 50.50 60 2.00 0.25 82.30 24.83 249.70 75.32 80 2.50 0.18 72.70 21.93 322.40 97.25 120 7.60 2.29 99.55 3.00 0.13 330.00 170 3.50 0.09 0.90 0.27 330.90 99.82 0.07 0.03 99.85 200 3.75 0.10 331.00 230 4.00 0.06 0.10 0.03 331.10 99.88 Phi 5 Phi 16 Phi 25 Phi 50 Phi 75 Phi 84 Phi 95 2.45 2.20 1.99 1.49 0.69 0.32 -0.43Mean Phi Moment Mean mm Sorting Skewness **Kurtosis Statistics** 1.28 0.41 0.92 8.0-3.35

DEP ROSS.GDT ႕ 8 ST JOHNS

10/10/22