



TOWN OF STOKESDALE NORTH CAROLINA

(RFP-2024-01) REQUEST FOR PROPOSALS (RFP) FOR ATHLETIC FIELD LIGHTING INSTALLATION



PURPOSE:

The Town of Stokesdale, North Carolina (The Town), invites qualified vendors to submit proposals for the installation of athletic field lighting around the preexisting soccer fields located at the Stokesdale Town Park (8329 Angel-Pardue Road, Stokesdale, North Carolina 27357).

The Town has already contracted Greensboro Engineering to prepare engineering and electrical plans for the project. The selected vendor will utilize these plans to complete the installation process.

The vendor engaged for this segment of the project shall **not** bear responsibility for the installation of the poles into the ground. It is hereby acknowledged that the Town of Stokesdale will have previously contracted another vendor for the aforementioned pole installation. The obligations of the vendor pertaining to this project segment solely encompass the installation of lighting fixtures, as delineated in the attached engineering plans and specifications, onto the poles which have been previously installed.

A pre-bid meeting is **required**. The Town is offering flexibility to accommodate the schedules of prospective bidders. The pre-bid meeting time frame will be from Tuesday, May 07, 2024, through Monday, June 03, 2024.

Sealed proposals are due in the office of the Town Clerk by Tuesday, June 04, 2024, at 12:00 PM. Sealed proposals will be opened on Thursday, June 06, 2024, at 5:15 PM in the Town Hall Council Chambers. In order to be considered, the sealed proposal must address each of the requests for information in the Summary of Qualifications section.

SERVICES REQUIRED:

This is a request for the installation of athletic field lighting around the preexisting soccer fields located at the Stokesdale Town Park (8329 Angel-Pardue Road, Stokesdale, North Carolina 27357).

Any interested parties must install a pre-aimed, pre-wired, fully functional lighting system. Proposals must include all necessary installation of lighting equipment and all necessary electrical out from the transformer as outlined in this request for proposal.

KEY POINTS FOR CONSIDERATION:

To properly evaluate the proposals, specific information/documentation is required (Light levels, uniformities, fixture type, control of spill and glare, ease of maintenance, warranty, the experience of the manufacturer, local references, references of projects of this magnitude or greater, project completion date, delivery date, installation ease, installation savings, life cycle, electrical costs, and continuity/compatibility with existing structures and electrical).

Any documents pertaining to light levels, field layout, pole locations, structural issues, or any other vital issues are to be specific to this project, this project and not from a “similar” project. Complete and easily understood submittals are required as a part of the request for proposal process.

Completion Date: A time frame for the project is expected. Bidders must provide and commit to their most timely delivery date. Please state the number of weeks for delivery from receipt of the signed purchase order agreement.

Insurance and Bonding: A five percent bid bond must accompany all proposals; any proposal not supplying a bid bond will not be considered.

Lighting Performance: Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the engineering and electrical plans provided by Greensboro Engineering attached to this document.

Design: All designs must comply with the specifications in the engineering and electrical plans provided by Greensboro Engineering attached to this document.

Pole Type and Foundation Requirements: All pole types and foundation requirements must comply with the specifications in the engineering and electrical plans provided by Greensboro Engineering attached to this document.

Lighting Requirements: Lights must comply with the specifications in the engineering and electrical plans provided by Greensboro Engineering attached to this document.

Warranty: Each bidder shall provide a type of warranty for weather and manufacturer warranties.

- **Labor:** The vendor agrees to provide materials for a period of one (1) year to replace defective ballasts and repair defects on workmanship as related to aiming of the luminaires, etc.
- **Lamps and Ballast:** Lamps are warranted not to fail for two (2) years from the date of installation. Lamps which fail during the first year will be replaced at no charge. The second year the lamps are included at no charge, but not the labor. Ballasts are warranted not to fail for five (5) years from the date of installation. Ballasts that fail during the first year will be replaced at no charge. Ballasts that fail between the second and fifth years are to be replaced at no charge, but not the labor.

Required Information: All required information must be submitted for approval of a proposal.

Electrical System Requirements:

Vendor Responsibility: The installing vendor shall be responsible for providing the equipment and installation of a complete and operational system that must comply with the specifications in the engineering and electrical plans provided by Greensboro Engineering attached to this document. The installing vendor engaged for this segment of the project shall not bear responsibility for the installation of the poles into the ground. It is hereby acknowledged that the Town of Stokesdale will have previously contracted another vendor for the aforementioned pole installation. The obligations of the vendor pertaining to this project segment solely encompass the installation of lighting fixtures, as delineated in the attached engineering plans and specifications, onto the poles which have been previously installed.

GENERAL INFORMATION

The Town of Stokesdale, North Carolina is located in the northwest corner of Guilford County with a population of approximately 5,995. The Town is the only local municipality in Guilford County that has never levied its own property tax. The Town operates under a Mayor-Council form of government with a mayor, a mayor pro tempore, and three (3) council members. The Town purchased twenty-five (25) acres of land on Angel-Pardue Road in 2004. The Town Park has been developed on this land over the years and now offers athletic fields, picnic shelters, a paved walking trail, volleyball courts, playground areas and disc golf. The most recent amenities added to the Town Park are outdoor basketball courts and pickleball courts, opened in December 2023. An adjoining 9.8 acres was purchased by the Town in September 2021 for future park expansion and nature trails in their planning stage.

SUBMISSION OF RESPONSE

Delivery: Proposals must be **sealed** and may be mailed, or hand delivered.

Sealed Proposals for RFP-2024-01 (Athletic Field Lighting Installation) are due on Tuesday, June 04, 2024, at 12:00 PM.

The vendor will provide a certificate of liability insurance with the bid proposal.

Proposals received after 12:00 PM on Tuesday, June 04, 2024, will be returned unopened. The Town reserves the right to reject any proposals, request additional information concerning any proposals for clarification, and waive any irregularities and informalities in the submittal and evaluation process. This RFP does not oblige the Town to pay any cost incurred by respondents in the preparation of the proposals. Furthermore, this RFP does not obligate the Town to accept or contract for any implied services.

Mailing Address Via United States Postal Service (USPS):

Town of Stokesdale
Attn: Robbie Lee Wagoner II, Town Clerk
Sealed RFP-2024-01 (Athletic Field Lighting Installation)
Post Office Box 465
Stokesdale, North Carolina 27357

Mailing Address Via Federal Express (FedEx) / United Parcel Service (UPS) &
Hand Delivery Address:

Town of Stokesdale
Attn: Robbie Lee Wagoner II, Town Clerk
Sealed RFP-2024-01 (Athletic Field Lighting Installation)
8325 Angel-Pardue Road
Stokesdale, North Carolina 27357

Your qualification shall be governed by the following schedule:

Tuesday, May 07, 2024, at 12:00 PM:

The RFP will be publicly advertised, and prospective bidders will be eligible to schedule a pre-bid meeting. A pre-bid meeting is **required**. The Town is offering flexibility to accommodate the schedules of prospective bidders. The pre-bid meetings can be scheduled Monday – Friday, from 9:00 AM until 5:00 PM.

Monday, June 03, 2024, at 5:00 PM

Deadline for inquiries, questions, or requests for information regarding RFP-2024-01 (Athletic Field Lighting Installation). All questions must be submitted in writing by e-mail to Robbie Lee Wagoner II, Town Clerk, at rwagoner@stokesdale.org.

Tuesday, June 04, 2024, at 12:00 PM

Sealed bid proposals are due at the Town Hall. Proposals received after the published deadline shall remain unopened and be returned to the vendor.

Thursday, June 06, 2024, at 5:15 PM:

Opening of sealed bid proposals in the Town Hall Council Chambers. To be considered for this engagement, you must meet the qualifications and satisfy the requirements set forth in this RFP.

QUALIFICATIONS PROPOSAL INFORMATION:

Each Statement of Qualification (SOQ) must address, but does not need to be limited to, the following information:

Respondents shall include:

Qualifications and Experience

List the name and all addresses of the location(s) of your firm. Which firm location will be used to provide services for the Town?

List all individuals and contact information for those who will be providing materials for this RFP.

List your history (if any) in providing services to the Town.

Describe your involvement with municipalities or other governmental agencies where you have provided athletic field lighting. List any contact information for current/former references for governmental clients for the past five (5) years.

EVALUATION PROCESS:

Bid proposals submitted by a vendor must be honored for a period not exceeding six (6) months. The Town reserves the right to accept or reject any and all submissions in the Town's best interest. Proposals cannot be altered or amended after the submission deadline. Any interlineations, alterations, or erasures made before bid opening must be initiated by the signor of the proposal, guaranteeing authenticity.

The Town Council will be solely responsible for the evaluation process of all proposals submitted for this project.

Receiving Bids

Sealed bids will be received by the Town Clerk. The date and time shall be noted on the envelope or box and initialed.

Bids received after the published deadline shall remain unopened and be returned to the vendor.

Bid Process

Sealed bids will be opened in the Town Hall Council Chambers at 8325 Angel-Pardue Road, Stokesdale, North Carolina 27357 on Thursday, June 06, 2024, at 5:15 PM. The bids shall remain on file, open for inspection, for at least forty- eight (48) hours before the contract may be awarded. Bids that are received, which are unmarked, shall be opened for identification purposes only and resealed. The envelope or box shall be marked accordingly.

After proposals are opened and publicly read, the proposals will be tabulated. Proposals without complete and accurate submittal information will not be accepted or considered. A contract will be awarded not based solely on a low dollar amount but on the best overall value of proposals and desirable features. Until the final award of the contract, the city reserves the right to reject any or all bids, waive technicalities, and to re-advertise for new bids.

BID AWARD AND PRICING

After your response to this RFP is submitted, the Town will negotiate a final price, which the Town Council must approve. Before Town Council approval, if any market changes occur, the responding vendor must notify the Town Clerk immediately. After the bid is awarded and the vendor awarded a contract wishes to approve adjusted pricing to the agreement due to changes in the market, they must do so through certified mail or via e-mail to Town Clerk Robbie Lee Wagoner II at rwagoner@stokesdale.org. Documentation verifying the reason for the price increase must be sent as part of the request. Upon review of adjusted proposals, the Town may elect to dissolve the existing contract upon the expiration date or accept the price adjustment(s).

The Town Clerk shall be responsible for preparing a tabulation sheet for all bids received that will be made available to the public upon request. The tabulation sheets will be forwarded to the Town Council to make the final decision on an award.

Point of Contact

In the event clarification or additional information is needed, contact Town Clerk Robbie Lee Wagoner II at rwagoner@stokesdale.org or at (336) 643-4011.

Notice

Any notice provided by this RFP or required by law to be given to the respondents by the Town shall be deemed to have been given and received on the next business day after such written notice was deposited in the U.S. Postal Service mail facility in Town of Stokesdale, North Carolina by registered or certified mail addressed to the respondent at the address provided in the sealed respondent. Addenda will make any interpretations, corrections, or changes to this Request of Proposals. The sole issuing authority of addenda shall be the Town Clerk. Addenda will be mailed to all who have received a copy of this Request for Proposals. Bidders shall acknowledge receipt of all addenda.

Funding

The municipality will be utilizing funds allocated by the State of North Carolina, in addition to funds provided by the American Rescue Plan Act (ARPA) from the Federal Government, to finance this project. Hence, it is imperative that the selected vendor adheres to the following requirements:

FEDERAL UNIFORM GUIDANCE

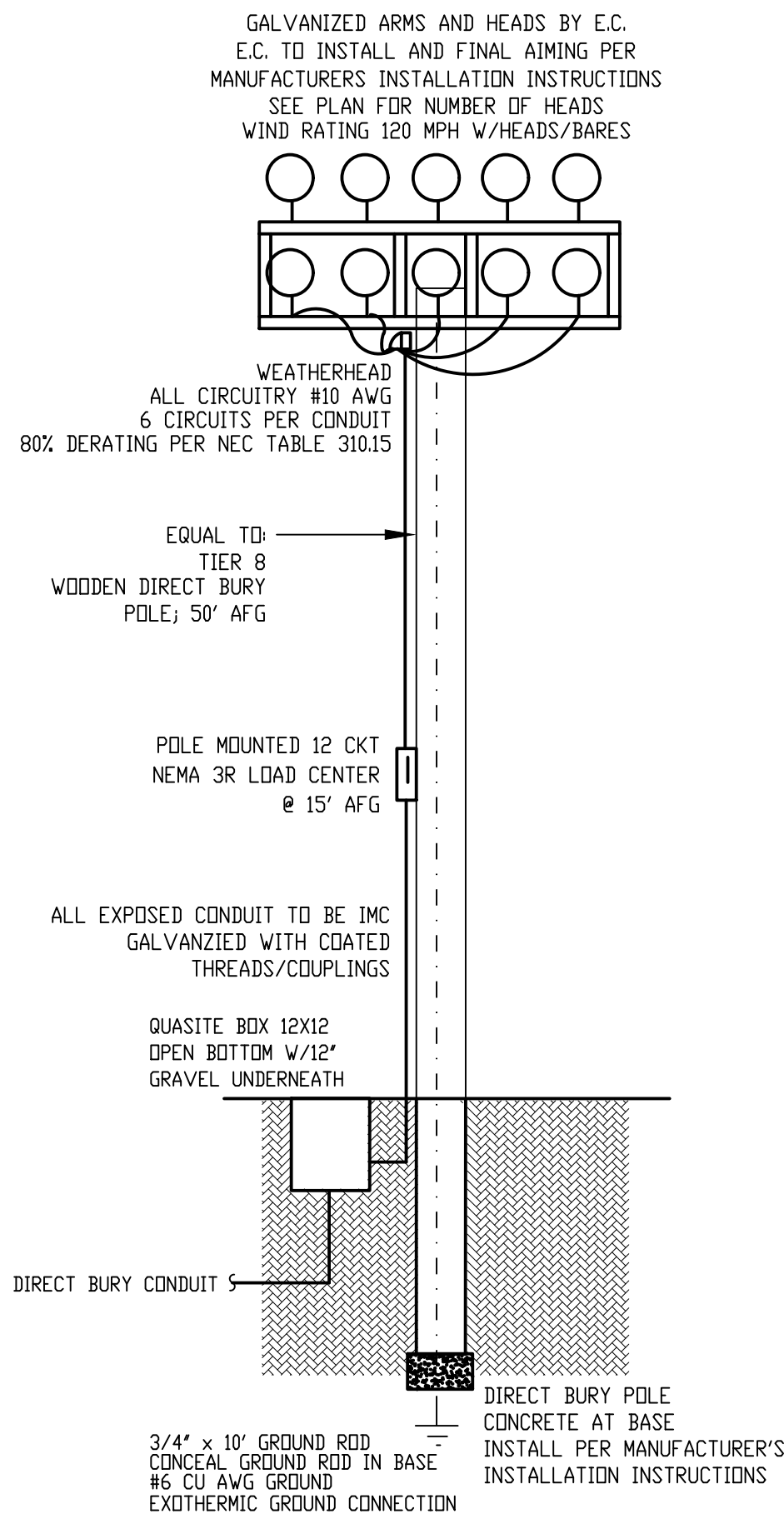
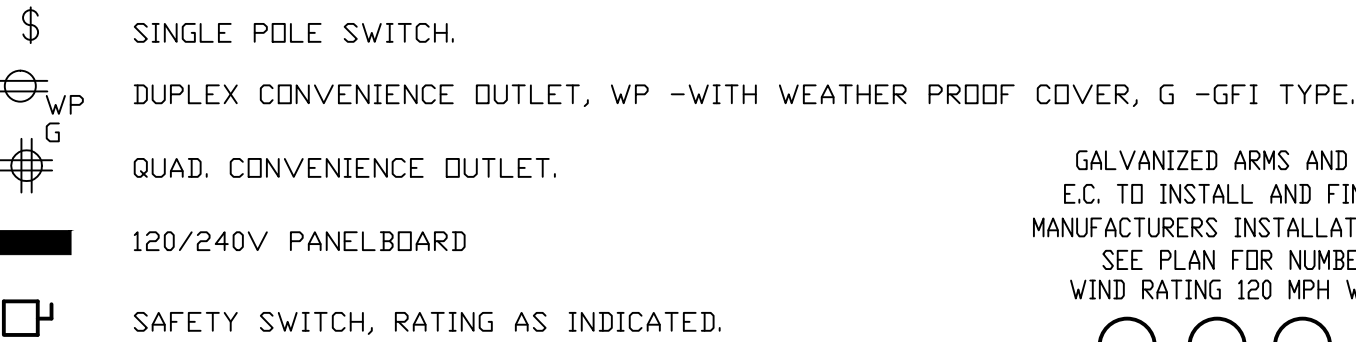
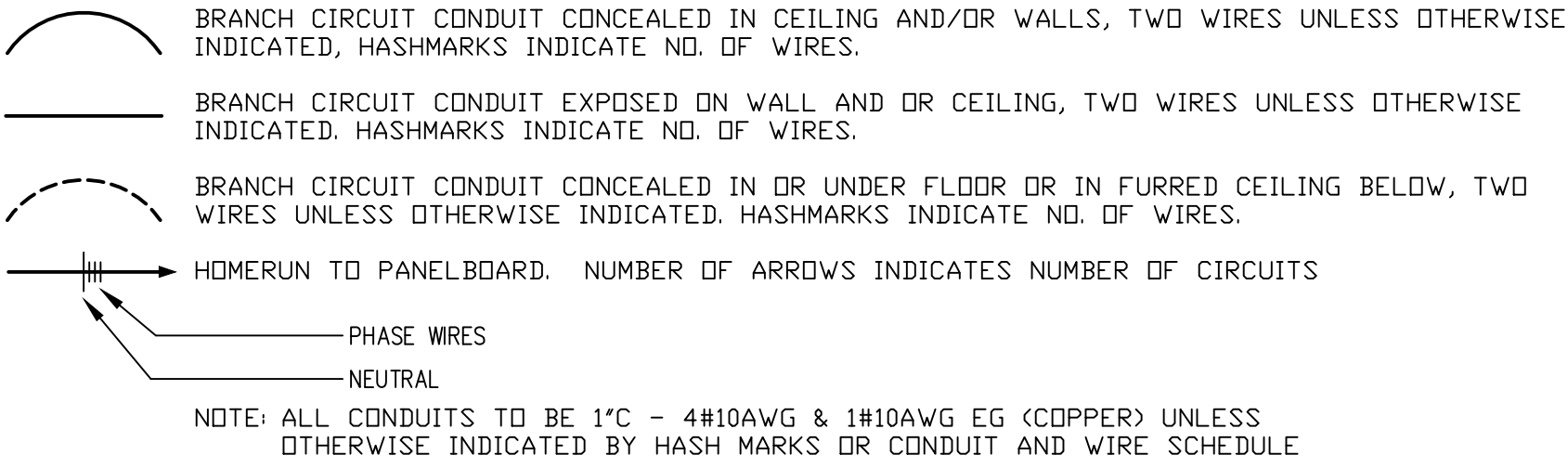
- Under the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (2 CFR Part 200) the following provisions apply to this RFQ (as applicable):
- Equal Employment Opportunity (2 C.F.R. Part 200, App. II, § (C))
- Copeland “Anti-Kickback” Act (2 C.F.R. Part 200, App. II, § (D))
- Contract Work Hours and Safety Standards Act (2 C.F.R. Part 200, App. II, § (E))
- Rights to Inventions Made Under a Contract (2 C.F.R. Part 200, App. II, § (F))
- Clean Air Act and Federal Water Pollution Control Act (2 C.F.R. Part 200, App. II, § (G))
- Debarment and Suspension (2 C.F.R. Part 200, App. II, § (H))
- Byrd Anti-Lobbying Amendment (2 C.F.R. Part 200, App. II, § (I))
- Procurement of Recovered Materials (2 C.F.R. Part 200, App. II, § (J), 2 C.F.R. § 200.323)
- Prohibition on Contracting for Covered Telecommunications Equipment or Services
- C.F.R. Part 200, App. II § (K), 2 C.F.R. § 200.216)

- Domestic Preference for Procurements (2 C.F.R. Part 200, App. II, § (L), 2 C.F.R. § 200.322)
- Contracting with Small and Minority Business, Women's Business Enterprises, and Labor
- Surplus Area Firms (2 C.F.R. § 200.321)
- Access to Records (2 C.F.R. § 200.324)
- Assurances of Compliance with Title VI of the Civil Rights Act of 1964 Increasing Seat Belt Use.
- Pursuant to Executive Order 13043, 62 FR 19217 (April 18, 1997), Awardee should encourage its contractors to adopt and enforce on-the-job seat belt
- Pursuant to Executive Order 13513, 74 FR 51225 (October 6, 2009), Awardee should encourage its employees, Awardees, and contractors to adopt and enforce policies that ban text messaging while driving, and Awardee should establish workplace safety policies to decrease accidents caused by distracted drivers

ATTACHMENTS:

Please find attached five (5) documents regarding the engineering and electrical plans for the project provided by Greensboro Engineering.

SYMBOLS & LEGEND



DRAWINGS NOTES

1. E.C. TO BE THOROUGHLY FAMILIAR WITH SITE AND BUILDINGS PRIOR TO PLACING BID. E.C. IS RESPONSIBLE FOR LOCATION ANY EXISTING UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) PRIOR TO STARTING WORK.

GENERAL NOTES:

- CONDUIT RACEWAYS SHOWN ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR LOCATING ANY UNDERGROUND SERVICES/UTILITIES PRIOR TO DIGGING. E.C. TO PROVIDE ANY SLEEVING REQUIRED.
- ANY SLEEVES INSTALLED PRIOR TO INSTALLATION OF CIRCUITRY, END CAPS TO BE SEALED TO PREVENT DIRT FROM GETTING INTO CONDUIT. MARK END CAPS FOR FUTURE CIRCUITRY.
- CONDUIT FOR ANY OTHER SERVICES/UTILITIES BESIDES SITE LIGHTING IS NOT SHOWN ON THIS PLAN.
- COORDINATE EXACT DEPTH OF SLEEVES WITH OTHER TRADES AS TO NOT INTERFERE WHEN CURB AND GUTTER/PAVING BEGINS. ENSURE THAT ALL NEC REQUIREMENTS ARE MET.
- E.C. TO PROVIDE FINAL AS-BUILT DRAWINGS ONCE INSTALLATION IS COMPLETE.
- INSTALL MARKING TAPE 6"-8" BELOW FINAL GRADE ABOVE ANY BURIED ELECTRICAL CIRCUITRY. ELECTRICAL CIRCUITRY TO BE BURIED 36" BELOW GRADE.
- ALL CONDUIT TO BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED; ALL WIRE NUTS TO BE SUITABLE FOR WET ENVIRONMENT. ALL BOLTS/NUTS/FASTENERS/HARDWARE TO BE STAINLESS STEEL 316.

GENERAL NOTES

- ALL CONDUITS TO BE RUN AT RIGHT ANGLES TO THE BUILDING STEEL.
- ALL UNDERGROUND UTILITIES PUBLIC AND PRIVATE TO BE LOCATED
- ALL CONDUITS HAVE 2 #12 THHN STRANDED CONDUCTORS & EG. EXCEPT AS NOTED.
- ALL CONDUCTORS #14 THRU #1 TO BE THHN STRANDED COPPER.
- ALL CONDUCTORS #1/0 THRU #500mcm TO BE RHH-RHW XLP STRANDED COPPER.
- SEE COLOR CODE SCHEDULE
- PROVIDE PROPER TERMINATIONS FOR STRANDED CONNECTIONS

VOLTS	A-PH.	B-PH.	C-PH.	NU.	GROUND
120/240	BLACK	BLUE	WHITE	GREEN	
208Y/120	BLACK	RED	BLUE	WHITE	GREEN
480Y/277	BROWN	ORANGE	YELLOW	GRAY	GREEN OR BR.
575	BLACK	RED	BLUE		GREEN OR BR.

GENERAL NOTES

- ANY SLEEVES INSTALLED PRIOR TO INSTALLATION OF CIRCUITRY, END CAPS TO BE SEALED TO PREVENT DIRT FROM GETTING INTO CONDUIT. MARK END CAPS FOR FUTURE CIRCUITRY. E.C. TO HIRE PRIVATE LOCATE SERVICE AND LOCATE ALL UTILITIES PRIOR TO STARTING WORK.
- COORDINATE EXACT DEPTH OF SLEEVES WITH OTHER TRADES AS TO NOT INTERFERE WHEN CURB AND GUTTER/PAVING BEGINS. ENSURE THAT ALL NEC REQUIREMENTS ARE MET.
- E.C. TO PROVIDE FINAL AS-BUILT DRAWINGS ONCE INSTALLATION IS COMPLETE.
- INSTALL MARKING TAPE 6"-8" BELOW FINAL GRADE ABOVE ANY BURIED ELECTRICAL CIRCUITRY. ELECTRICAL CIRCUITRY TO BE BURIED 36" BELOW GRADE;
- ALL UNDERGROUND CONDUIT TO BE SCHEDULE 80 PVC
- ALL CONDUIT RUN UNDERGROUND TO BE DIRECTIONAL BORED.



EXISTING CONDITIONS/NEW SITE PLAN

SCALE - 1" = 30'0"

DESCRIPTION OF SCOPE OF WORK

E.C. TO BE THOROUGHLY FAMILIAR WITH SITE AND BUILDING PRIOR TO PLACING BID. INTENT IS TO ADD FIELD LIGHTING TO THE EXISTING SOCCER FIELD; AT EXISTING CONCESSION BUILDING THERE IS AN EXISTING 120/240V 1Ø ELECTRICAL SERVICE THAT SHALL REMAIN AND 167 KVA DUKE XFMR; IN SAME BUILDING THERE IS EXISTING WIFI/INTERNET; INTENT IS TO ADD A NEW EXTERIOR 120/240V 1Ø 400 AMP SERVICE AND LIGHTING CONTROL PANEL TO SERVE THE NEW FIELD LIGHTS; ALL UNDERGROUND CIRCUITRY TO BE DIRECTIONAL BORED WITH CONDUIT; INTENT TO PRESERVE ALL FIELD CONDITIONS AS MUCH AS POSSIBLE; LIGHTS ARE SHOWN 10' BACK FROM EDGE OF FIELD; OWNER REQUESTED 30 FC FOR LIGHTING LEVEL; PHOTOMETRIC LAYOUT REFLECTS 50' DIRECT BURY WOODEN POLES WITH PERFORMANCE LIGHTING SPECIFICATION OF 35 FC AVERAGE WITH UNIFORMITY OF LESS THAN 2:1; INTENT IS TO SETUP LIGHTING CONTRACTORS FOR (2) FIELDS; POLES #3 AND #4 ARE SHARED BY EACH FIELD; INTENT TO PROVIDE ADD ALTERNATE E-1 FOR WIRELESS CONTROL OF THE FIELD LIGHTING (VIA WIFI FROM CONCESSIONS BUILDING VIA INTERMATIC ETW SERIES 365 DAY PROGRAMMABLE WIFI TIMER). PROVIDE ALL LABOR, DEVICES, EQUIPMENT, TRAINING, ETC. FOR COMPLETE INSTALLATION.

DRAWINGS NOTES

- GENERAL NOTE - E.C. TO BE THOROUGHLY FAMILIAR WITH SITE AND BUILDING PRIOR TO PLACING BID. COORDINATE WITH DUKE POWER TO MINIMIZE OUTAGES. SCHEDULE ANY OUTAGE WITH THE OWNER 7 DAYS PRIOR. E.C. TO SURVEY ALL UNDERGROUND UTILITIES (PRIVATE AND PUBLIC) PRIOR TO STARTING WORK.
- NEW SERVICE BACKBOARD TO BE LOCATED BY OWNER IN APPROXIMATELY THE SAME LOCATION; INTENT IS FEED A SINGLE PHASE 400A 120/240 1Ø FROM EXISTING TRANSFORMER TO NEW ELECTRICAL BACKBOARD WITH METER, PANEL, LIGHTING CONTROL PANEL, ETC.
 - COORDINATE INSTALLATION OF WOODEN POLES WITH EXISTING CONDITIONS; PROVIDE INTENT IS TO DRILL EXACT SIZE OF THE POLE TO REDUCE TAMPING AND SETTLING OF THE POLES. ALL POLES TO BE INSTALLED STRAIGHT AND LEVEL.

SEALS

NORTH CAROLINA
PROFESSIONAL ENGINEER
02946804
CHARLES B. LACKO

GREENSBORO ENGINEERING PLLC
SEAL REGISTERED
ENGINEERING CORPORATION
P-53364
GREENSBORO, NC

DESIGNED FOR
TOWN OF
STOKESDALE

STOKESDALE
SOCCER FIELD LTG

8325 ANGEL PARQUE RD
STOKESDALE, NC
PHONE 336 643-4011

REVISIONS

ELECTRICAL -
EXISTING CONDITIONS;
SYMBOLS; SCHEDULES;
NOTES & DETAILS

DATE
APRIL 4, 2024

DRAWN BY
CBL

CHECKED BY
CBL

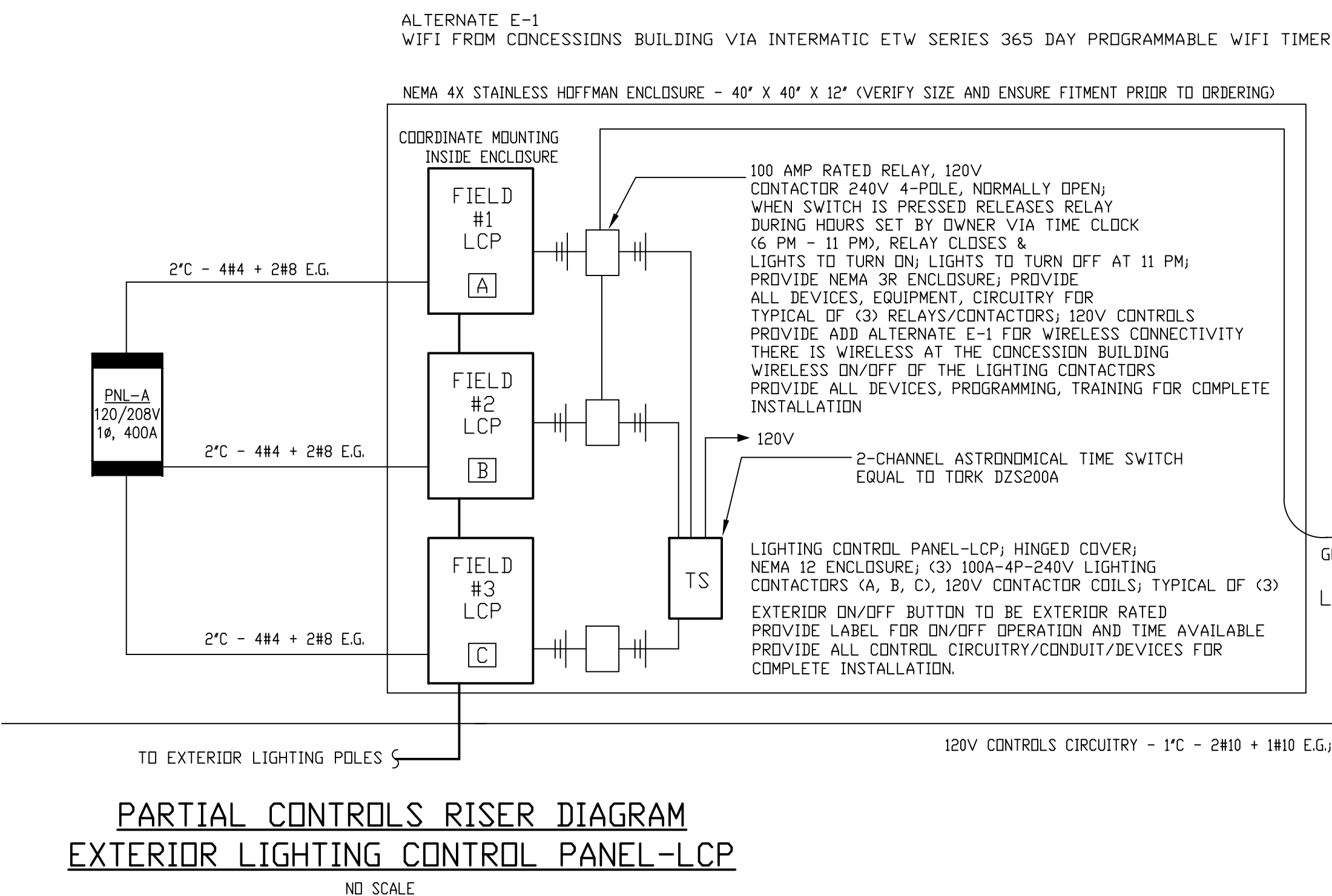
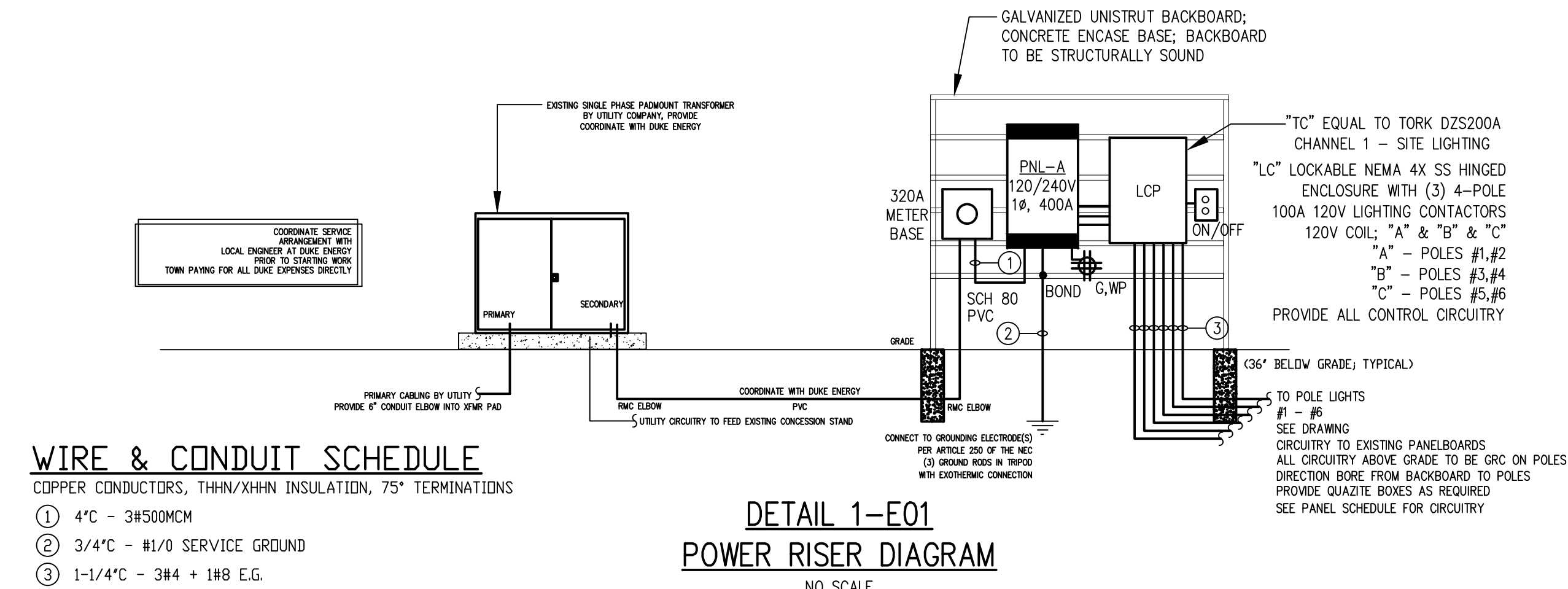
PROJECT NUMBER
23-212

SHEET NUMBER
E01
1 OF 5

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PHONE 336 275-6360
www.gsoengineering.com
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PANEL-A	MAKE: CUTLER HAMMER			RATING: 120/240V 1Ø 3W			400A MAIN CIRCUIT BREAKER (FRAME)					
	TYPE: P1			MOUNTING: SURFACE			EQUIPMENT GROUND BUS ☒ YES ☐ NO					
	LOAD SERVED		VA PER PHASE	CKT BRKR	CKT NO.	NEUTRAL	CKT NO.	CKT BRKR	VA PER PHASE	LOAD SERVED		
	A	B			A	B			A	B		
REC-BACKBOARD	720			20/1	1		2	20/1	-	-	SPARE	
LIGHTING CONTACTORS		200		20/1	3		4	20/1	-	-	SPARE	
SPARE	-			20/1	5		6	20/1	-	-	SPARE	
SPARE	-			20/1	7		8	20/1	-	-	SPARE	
SPARE	-		GFCI	20/1	9		10	20/1	GFCI	-	SPARE	
SPARE	-		GFCI	20/1	11		12	20/1	GFCI	-	SPARE	
SPACE ONLY	-		-	13			14	-	-	-	SPACE ONLY	
SPACE ONLY	-		-	15			16	-	-	-	SPACE ONLY	
SPACE ONLY	-		-	17			18	-	-	-	SPACE ONLY	
SPACE ONLY	-		-	19			20	-	-	-	SPACE ONLY	
SPACE ONLY	-		-	21			22	-	-	-	SPACE ONLY	
SPACE ONLY	-		-	23			24	-	-	-	SPACE ONLY	
SPACE ONLY	-		-	25			26	-	-	-	SPACE ONLY	
SPARE	-		-	70/2	27		28	70/2	-	-	SPARE	
-	-		-	29			30	-	-	-	-	
POLE 1 - 7 LIGHTS		3180		70/2	31		32	70/2		3180	POLE 4 - 4 LIGHTS	
1-1/4" - 3#4 + 1#8 E.G.	3180				33		34	-	3180		1-1/4" - 3#4 + 1#8 E.G.	
POLE 2 - 8 LIGHTS		3180		70/2	35		36	70/2		3180	POLE 5 - 9 LIGHTS	
1-1/4" - 3#4 + 1#8 E.G.	3180				37		38	-	3180		1-1/4" - 3#4 + 1#8 E.G.	
POLE 3 - 9 LIGHTS		3180		70/2	39		40	70/2		3180	POLE 6 - 6 LIGHTS	
1-1/4" - 3#4 + 1#8 E.G.	3180				41		42	-	3180		1-1/4" - 3#4 + 1#8 E.G.	
REMARKS	13440	12920	SUB-TOTAL "B"		400A BUS		SUB-TOTAL "A"		12720	12720	MIN. 23,000 A.I.C.	
SE LABEL					400A LUGS		SUB-TOTAL "B"		13440	12920	SYM. AMPERES	
VERIFY AIC WITH DUKE ENERGY PRIOR TO RELEASING GEAR					400A S/N		GRAND TOTAL		26160	25640	LUGS/PHASE (1) - #500MCM	
NEMA 4X STAINLESS ENCLOSURE WITH LOCKABLE FRONT COVER					BOTT. FEED		AMPS / PHASE		216	214	LUGS/NEUT. (1) - #500MCM	
ADJUST BREAKERS FOR LIGHTS TO BE COORDINATED WITH LIGHTING SUBMITTAL												

- GENERAL NOTES:
- CONDUIT RACEWAYS SHOWN ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR LOCATING ANY UNDERGROUND SERVICES/UTILITIES PRIOR TO DIGGING. E.C. TO PERFORM ANY ROCK REMOVAL REQUIRED.
 - ANY SLEEVES INSTALLED PRIOR TO INSTALLATION OF CIRCUITRY, END CAPS TO BE SEALED TO PREVENT DIRT FROM GETTING INTO CONDUIT. MARK END CAPS FOR FUTURE CIRCUITRY.
 - CONDUIT FOR ANY OTHER SERVICES/UTILITIES BESIDES POWER CIRCUITRY IS NOT SHOWN ON THIS PLAN.
 - COORDINATE EXACT DEPTH OF SLEEVES WITH OTHER TRADES AS TO NOT INTERFERE WHEN CURB AND GUTTER/PAVING BEGINS. ENSURE THAT ALL NEC REQUIREMENTS ARE MET.
 - E.C. TO PROVIDE FINAL AS-BUILT DRAWINGS ONCE INSTALLATION IS COMPLETE.
 - INSTALL MARKING TAPE 6"-8" BELOW FINAL GRADE ABOVE ANY BURIED ELECTRICAL CIRCUITRY. ELECTRICAL CIRCUITRY TO BE BURIED 36" BELOW GRADE.

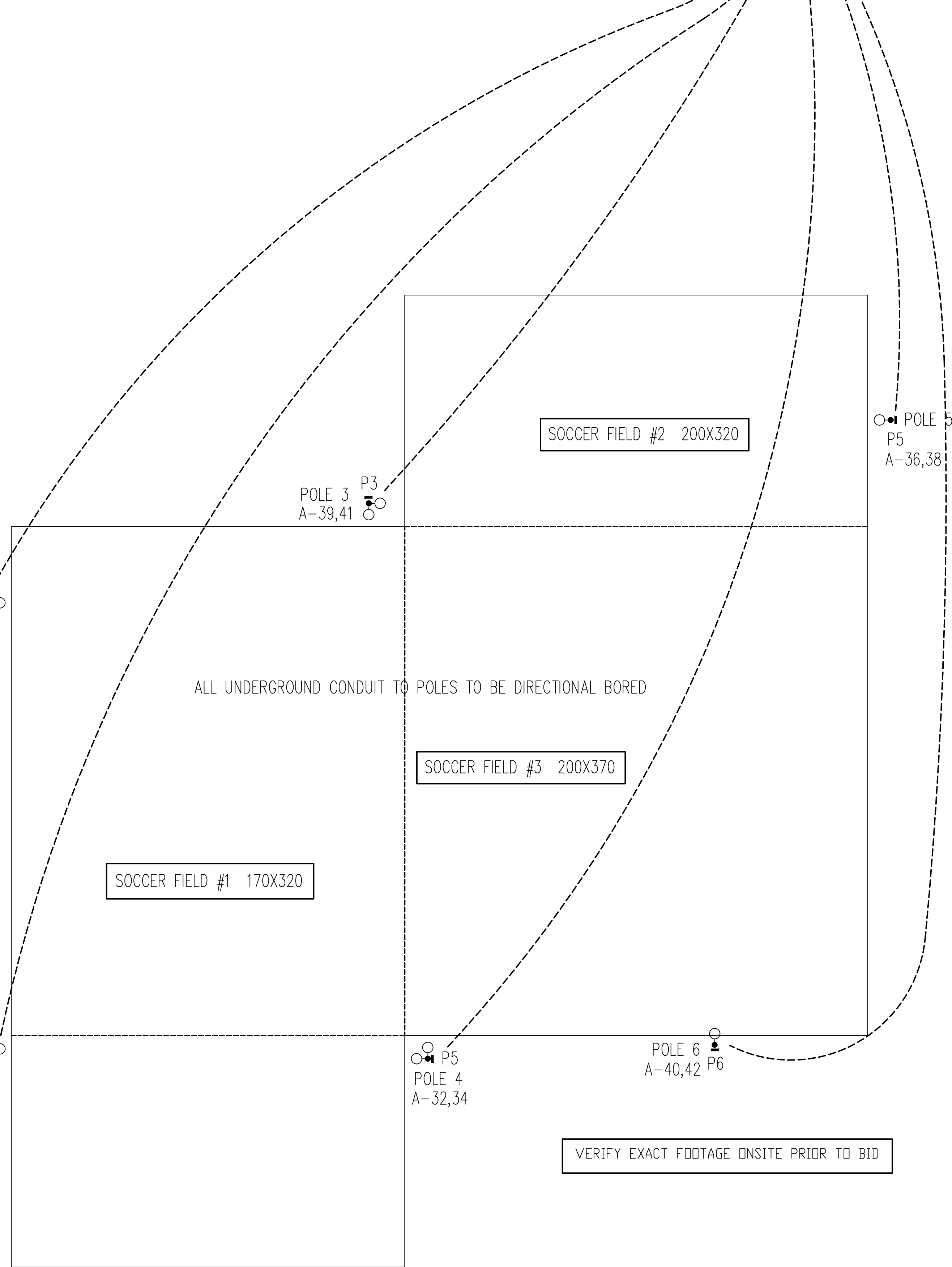


ELECTRICAL LOAD SUMMARY					
(A) NEW 120/240V 1Ø 400 AMP SERVICE WITH 3Ø 400 AMP WIRE TO ELECTRICAL BACKBOARD FROM PAD MOUNTED TRANSFORMER; COORDINATE WITH SERVICE PROVIDER					
(B)	CONNECTED LOAD	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	AMPS
	1- LIGHTING	62.4	1.25	78	325
	2- REC.	1.0	1.0	1.0	4
	3- MECHANICAL LOADS	N/A	1.0	N/A	N/A
	TOTAL	79		329	

SAFETY SWITCH SCHEDULE							
* FUSE SIZE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS * FUSE SIZE AS NOTED ON PLANS. NF NON-FUSED							
MARK	POLE	AMPS	VOLTS	NEMA	FUSE	GROUND BAR	COMMENTS
1	3	30	240	4X	YES	YES	HEAVY DUTY
2	3	60	240	4X	YES	YES	HEAVY DUTY
3	-	-	-	-	-	-	
4	-	-	-	-	-	-	
5	-	-	-	-	-	-	

GENERAL NOTES

- CONDUIT RACEWAYS SHOWN ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR PROVIDING APPROPRIATE WIRE COUNTS WITHIN RACEWAYS TO MAKE SYSTEM FUNCTION AS SHOWN/INDICATED ON PLANS.
- NEUTRALS ON LOAD SIDE OF DIMMERS SHALL NOT BE SHARED UNDER ANY CIRCUMSTANCES.
- ALL WIRING TO COMPLY WITH NEC 2020.
- ALL 120V HOMERUNS OVER 75 FEET IN LENGTH TO HAVE UPSIZED (ONE SIZE LARGER) WIRE FOR VOLTAGE DROP.
- PROVIDE ALL MOUNTING HARDWARE FOR ALL LIGHTING APPLICATIONS (THREADED ROD, ADJUSTABLE SLOPE JUNCTION BOXES, ETC.) .



ELECTRICAL - NEW SITE POWER PLAN

SCALE - 1" = 30'0"

SEALS

NORTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
02946804
CHARLES B. JACKSON

GREENSBORO ENGINEERING PLLC
SEAL REGISTERED
ENGINEERING CORPORATION
P-5384
GREENSBORO, NC

DESIGNED FOR
TOWN OF
STOKESDALE

STOKESDALE
SOCCER FIELD LTG
8325 ANGEL PARQUE RD
STOKESDALE, NC
PHONE 336 643-4011

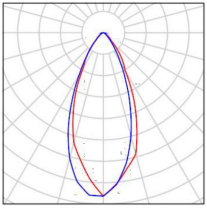
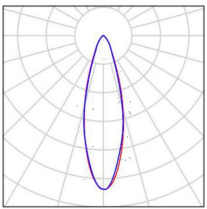
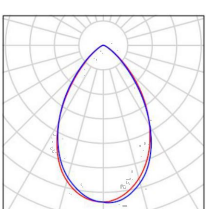
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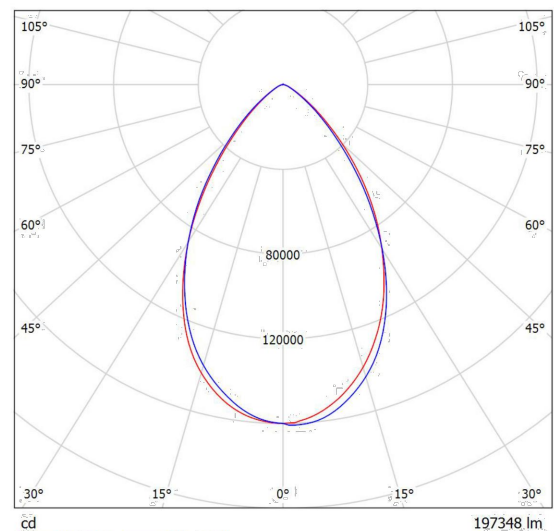
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ONE-LINE DIAGRAM;
NOTES & DETAILS

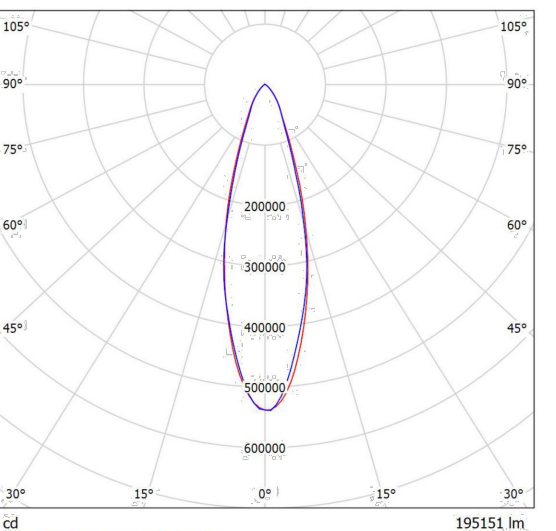
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SHEET NUMBER
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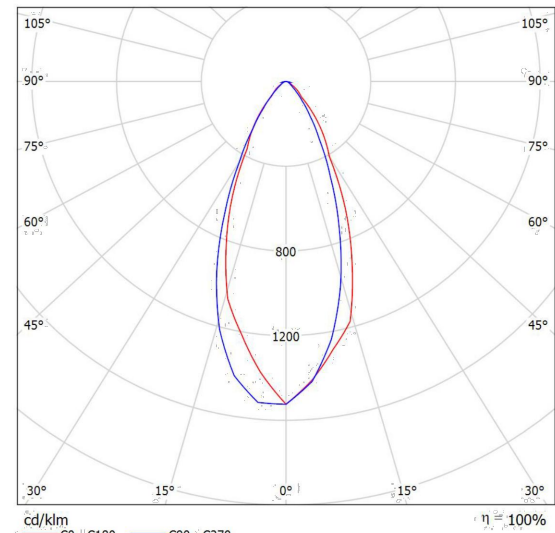
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Project 1		DIALux	
		Operator	02 / 24 / 2024
		Telephone	
		Fax	
		e-Mail	
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Project 1		DIALux	
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		e-Mail	
Project 1 / Luminaire parts list			
23 Pieces	Epoveron SP-M21300W 50D40N(120-277V) LED	See our luminaire catalog for an image of the luminaire.	
	Article No.: Luminous flux (Luminaire): 165288 lm Luminous flux (Lamps): 164810 lm Luminaire Wattage: 1217.3 W Luminaire classification according to CIE: 100 CIE flux code: 87 97 99 100 101 Fitting: 1 x User defined (Correction Factor 1.000).		
22 Pieces	Epoveron SP-M21300W 50D30N(120-277V) LED	See our luminaire catalog for an image of the luminaire.	
	Article No.: SP-M21300W 50D30N(120-277V) Luminous flux (Luminaire): 195151 lm Luminous flux (Lamps): 195151 lm Luminaire Wattage: 1295.6 W Luminaire classification according to CIE: 100 CIE flux code: 89 97 99 100 100 Fitting: 1 x User defined (Correction Factor 1.000).		
3 Pieces	Epoveron SP-M2130W 50D60N(120-277V) LED	See our luminaire catalog for an image of the luminaire.	
	Article No.: SP-M2130W 50D60N(120-277V) Luminous flux (Luminaire): 197348 lm Luminous flux (Lamps): 197348 lm Luminaire Wattage: 1295.7 W Luminaire classification according to CIE: 100 CIE flux code: 79 97 99 100 100 Fitting: 1 x User defined (Correction Factor 1.000).		

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Epoveron SP-M2130W 50D60N(120-277V) LED / Luminaire Data Sheet			
See our luminaire catalog for an image of the luminaire.		Luminous emittance 1: 	
Luminaire classification according to CIE: 100 CIE flux code: 79 97 99 100 100		Due to missing symmetry properties, no UGR table can be displayed for this luminaire.	

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Epoveron SP-M21300W 50D30N(120-277V) LED / Luminaire Data Sheet			
See our luminaire catalog for an image of the luminaire.		Luminous emittance 1: 	
Luminaire classification according to CIE: 100 CIE flux code: 89 97 99 100 100		Due to missing symmetry properties, no UGR table can be displayed for this luminaire.	

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		e-Mail	
Epoveron SP-M21300W 40D30N(120-277V) LED / Luminaire Data Sheet			
See our luminaire catalog for an image of the luminaire.		Luminous emittance 1: 	
Luminaire classification according to CIE: 100 CIE flux code: 87 97 99 100 101		Due to missing symmetry properties, no UGR table can be displayed for this luminaire.	

Project 1

DIALux

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Exterior Scene 1 / Planning data

Light loss factor: 1.00, ULR (Upward Light Ratio): 9.5%

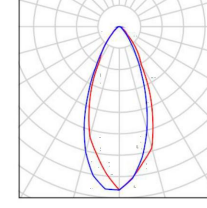
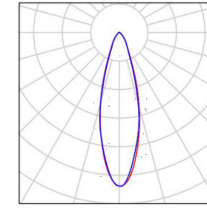
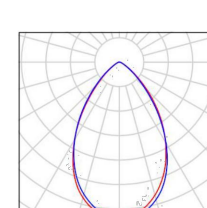
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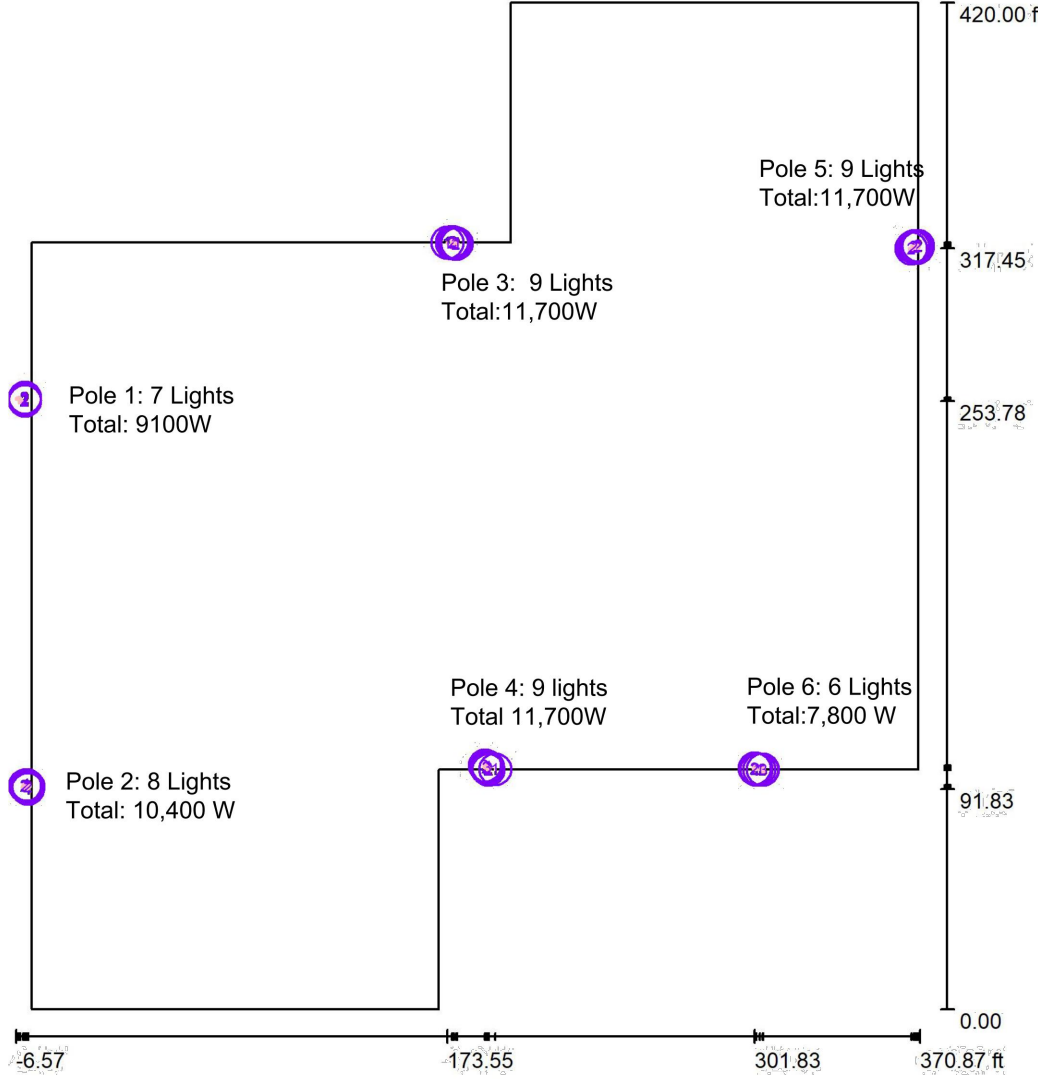
Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1		Epoveron SP-M2130W 50D40N (120-277V) LED (1.000)	165288	164810	1217.3
2	22	Epoveron SP-M21300W 50D30N (120-277V) LED (1.000)	195151	195151	1295.6
3	3	Epoveron SP-M2130W 50D60N (120-277V) LED (1.000)	197348	197348	1295.7

Total: 8686993 Total: 8676006 60388.9

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Project 1		DIALux	
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		Fax	
		e-Mail	
Exterior Scene 1 / Luminaire parts list			
23 Pieces	Epoveron SP-M2130W 50D40N(120-277V) LED	See our luminaire catalog for an image of the luminaire.	
	Article No.: Luminous flux (Luminaire): 165288 lm Luminous flux (Lamps): 164810 lm Luminaire Wattage: 1217.3 W Luminaire classification according to CIE: 100 CIE flux code: 87 97 99 100 101 Fitting: 1 x User defined (Correction Factor 1.000).		
22 Pieces	Epoveron SP-M21300W 50D30N(120-277V) LED	See our luminaire catalog for an image of the luminaire.	
	Article No.: SP-M21300W 50D30N(120-277V) Luminous flux (Luminaire): 195151 lm Luminous flux (Lamps): 195151 lm Luminaire Wattage: 1295.6 W Luminaire classification according to CIE: 100 CIE flux code: 89 97 99 100 100 Fitting: 1 x User defined (Correction Factor 1.000).		
3 Pieces	Epoveron SP-M2130W 50D60N(120-277V) LED	See our luminaire catalog for an image of the luminaire.	
	Article No.: SP-M2130W 50D60N(120-277V) Luminous flux (Luminaire): 197348 lm Luminous flux (Lamps): 197348 lm Luminaire Wattage: 1295.7 W Luminaire classification according to CIE: 100 CIE flux code: 79 97 99 100 100 Fitting: 1 x User defined (Correction Factor 1.000).		

Project 1		DIALux	
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		Fax	
		e-Mail	
Exterior Scene 1 / Luminaires (layout plan)			
		420.00 ft 317.45 253.78 91.83 0.00 370.87 ft -6.57 173.55 301.83	
Luminaire Parts List		Scale 1 : 866	
No.	Pieces	Designation	
1	23	Epoveron SP-M21300W 50D40N(120-277V) LED	
2	22	Epoveron SP-M21300W 50D30N(120-277V) LED	
3	3	Epoveron SP-M2130W 50D60N(120-277V) LED	

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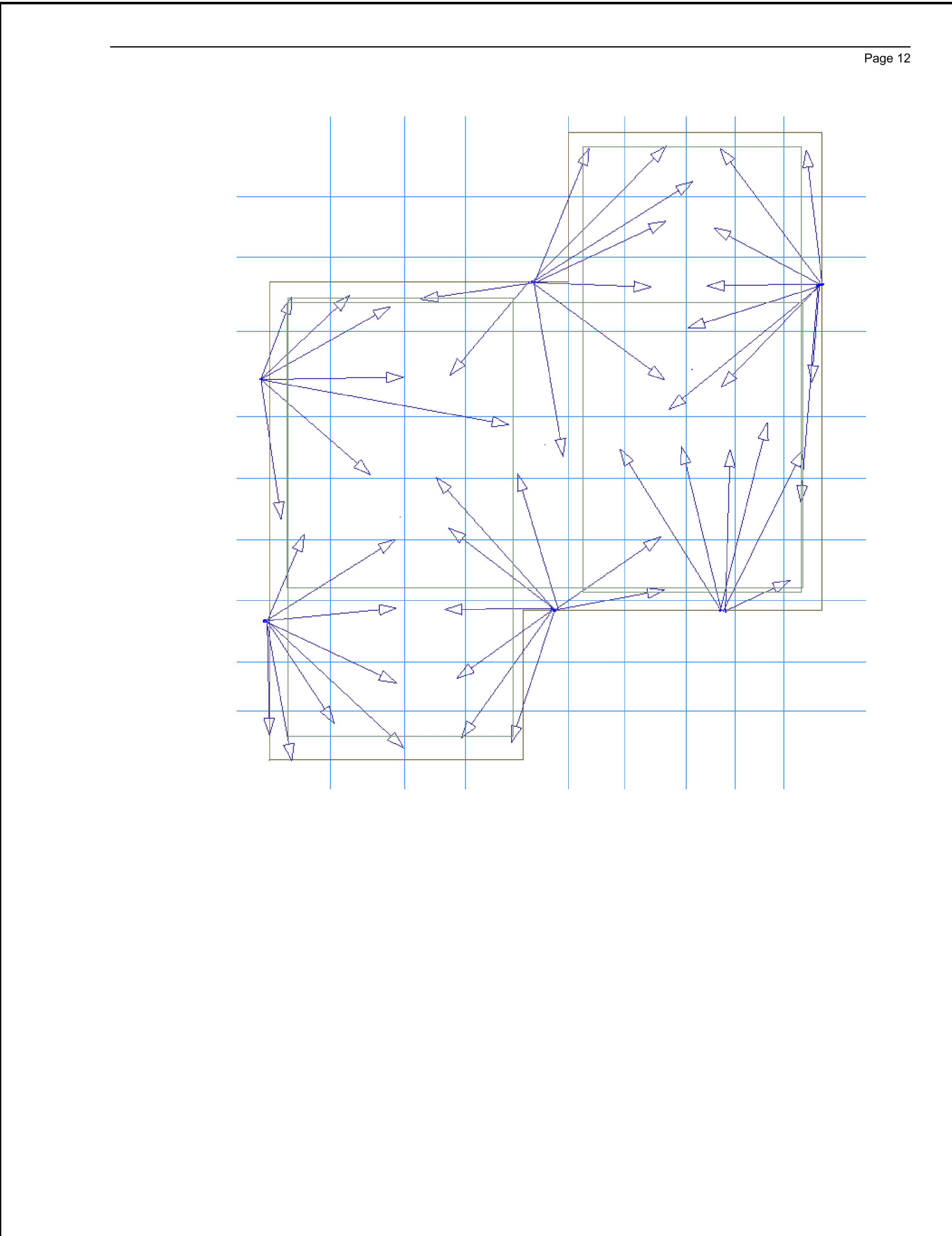
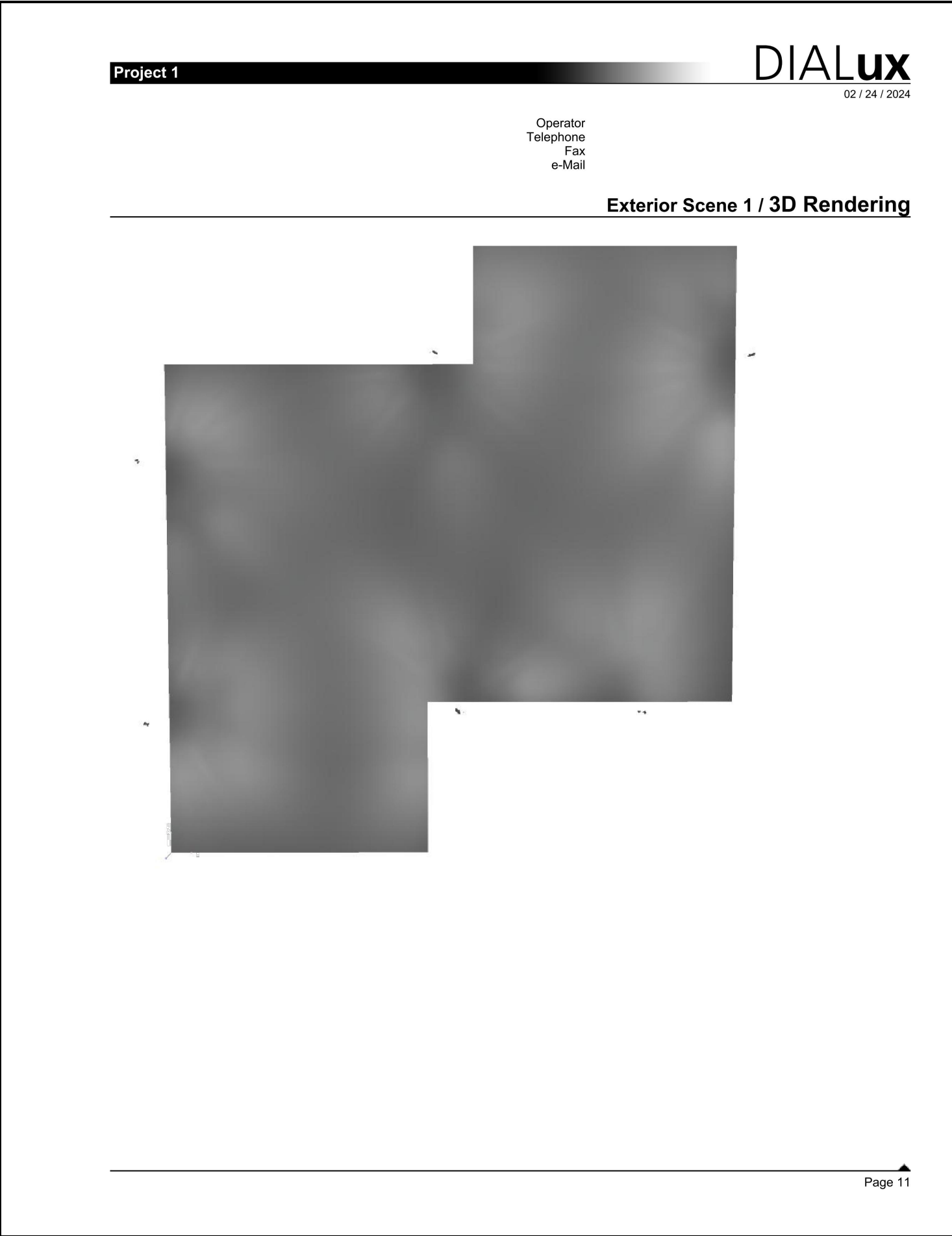
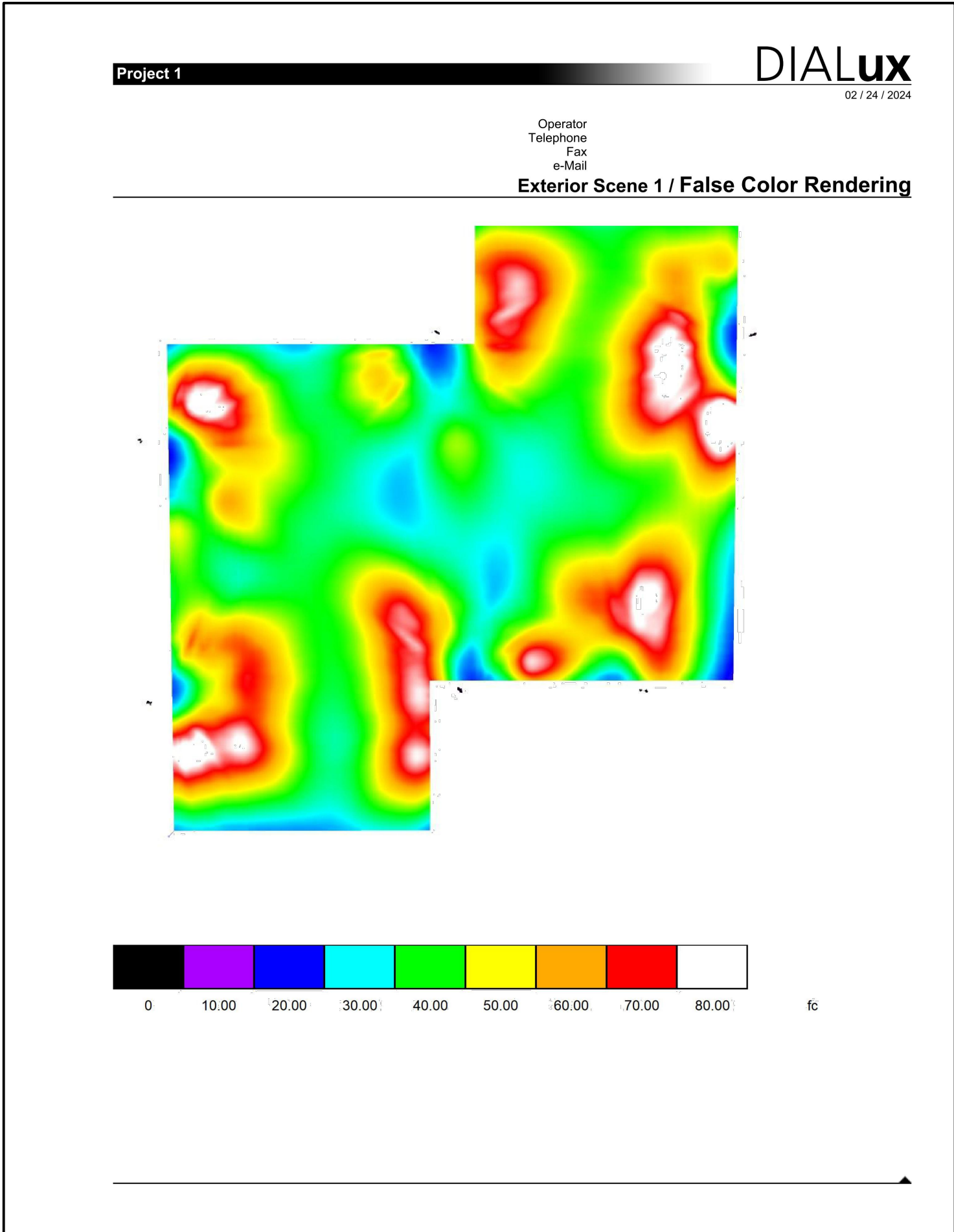
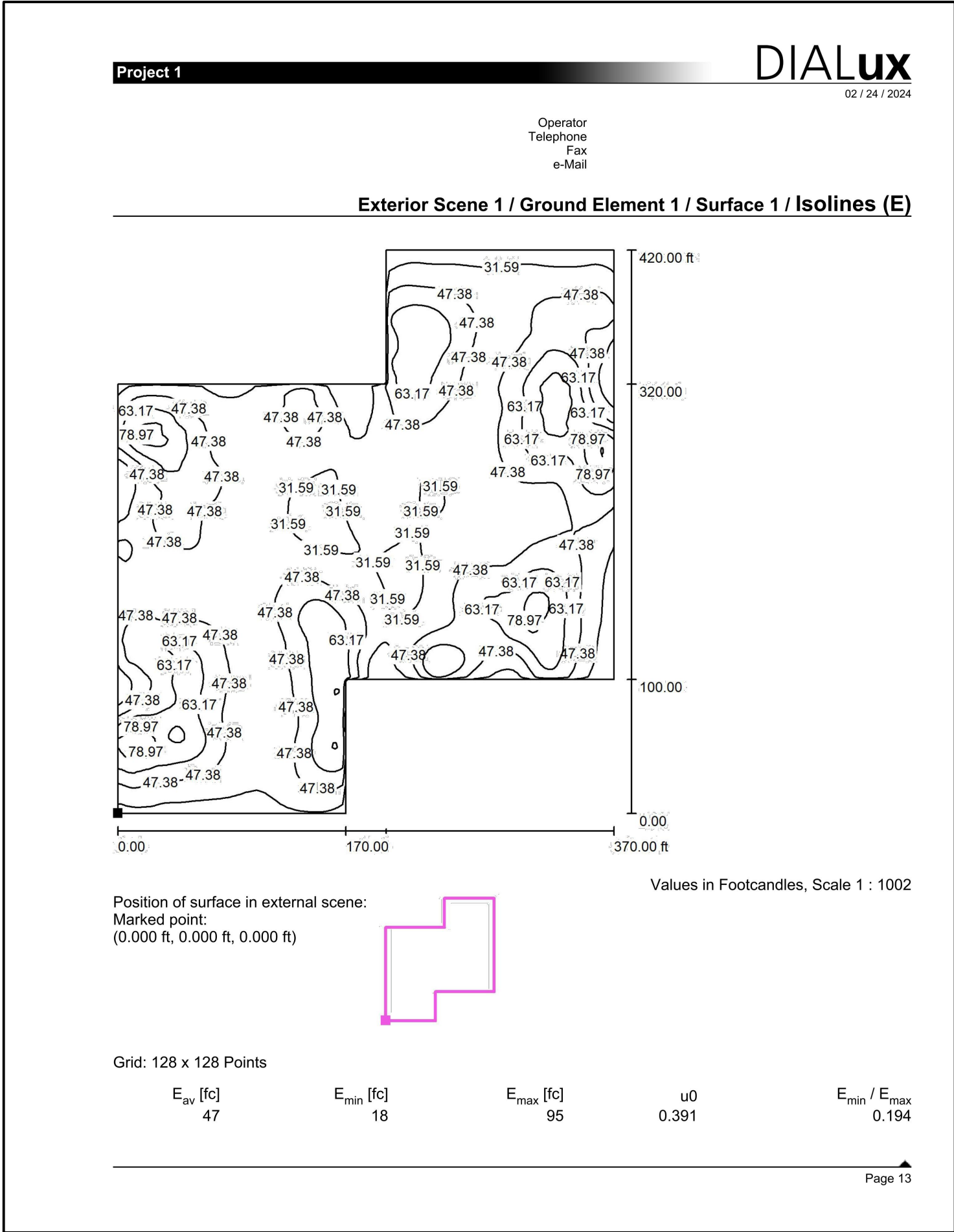
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8325 ANGEL PARQUE RD
STOKESDALE, NC

ELECTRICAL –
PHOTOMETRIC DETAILS
FOR PERFORMANCE
SPECIFICATIONS

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23-212
SHEET NUMBER
E03
3 OF 5



PANEL-P1	MAKE: CUTLER HAMMER		RATING: 120/240V 1Ø 3W		70A MAIN CIRCUIT BREAKER (FRAME)	
	TYPE: P1		MOUNTING: SURFACE		EQUIPMENT GROUND BUS ☒ YES ☐ NO	
	LOAD SERVED		VA PER PHASE	CKT BRKR	CKT NO.	LOAD SERVED
	A	B				
POLE #1 - HEADS #1 & #2	1300		20/2	1	2	650
2#10 + 1#10 E.G.		1300	-	3	4	650
POLE #1 - HEADS #3 & #4	1300		20/2	5	6	-
2#10 + 1#10 E.G.		1300	-	7	8	-
POLE #1 - HEADS #5 & #6	1300		20/2	9	10	-
2#10 + 1#10 E.G.		1300	-	11	12	-
REMARKS	3900	3900	SUB-TOTAL "B"		100A BUS	SUB-TOTAL "A"
NEMA 3R LOCKABLE ENCLOSURE POLE MOUNTED				100A LUGS	SUB-TOTAL "B"	3900 3900
				100A S/N	GRAND TOTAL	4550 4550
				BOTT. FEED	AMPS / PHASE	38 38
						MIN. 18,000 A.I.C.
						SYM. AMPERES
						LUGS/PHASE (1) - #4
						LUGS/NEUT. (1) - #4

PANEL-P2	MAKE: CUTLER HAMMER		RATING: 120/240V 1Ø 3W		70A MAIN CIRCUIT BREAKER (FRAME)	
	TYPE: P1		MOUNTING: SURFACE		EQUIPMENT GROUND BUS ☒ YES ☐ NO	
	LOAD SERVED		VA PER PHASE	CKT BRKR	CKT NO.	LOAD SERVED
	A	B				
POLE #2 - HEADS #1 & #2	1300		20/2	1	2	1300
2#10 + 1#10 E.G.		1300	-	3	4	1300
POLE #2 - HEADS #3 & #4	1300		20/2	5	6	-
2#10 + 1#10 E.G.		1300	-	7	8	-
POLE #2 - HEADS #5 & #6	1300		20/2	9	10	-
2#10 + 1#10 E.G.		1300	-	11	12	-
REMARKS	3900	3900	SUB-TOTAL "B"		100A BUS	SUB-TOTAL "A"
NEMA 3R LOCKABLE ENCLOSURE POLE MOUNTED				100A LUGS	SUB-TOTAL "B"	3900 3900
				100A S/N	GRAND TOTAL	5200 5200
				BOTT. FEED	AMPS / PHASE	43 43
						MIN. 18,000 A.I.C.
						SYM. AMPERES
						LUGS/PHASE (1) - #4
						LUGS/NEUT. (1) - #4

PANEL-P3	MAKE: CUTLER HAMMER		RATING: 120/240V 1Ø 3W		70A MAIN CIRCUIT BREAKER (FRAME)	
	TYPE: P1		MOUNTING: SURFACE		EQUIPMENT GROUND BUS ☒ YES ☐ NO	
	LOAD SERVED		VA PER PHASE	CKT BRKR	CKT NO.	LOAD SERVED
	A	B				
POLE #3 - HEADS #1 & #2	1300		20/2	1	2	1300
2#10 + 1#10 E.G.		1300	-	3	4	1300
POLE #3 - HEADS #3 & #4	1300		20/2	5	6	650
2#10 + 1#10 E.G.		1300	-	7	8	650
POLE #3 - HEADS #5 & #6	1300		20/2	9	10	-
2#10 + 1#10 E.G.		1300	-	11	12	-
REMARKS	3900	3900	SUB-TOTAL "B"		100A BUS	SUB-TOTAL "A"
NEMA 3R LOCKABLE ENCLOSURE POLE MOUNTED				100A LUGS	SUB-TOTAL "B"	3900 3900
				100A S/N	GRAND TOTAL	5850 5850
				BOTT. FEED	AMPS / PHASE	49 49
						MIN. 18,000 A.I.C.
						SYM. AMPERES
						LUGS/PHASE (1) - #4
						LUGS/NEUT. (1) - #4

PANEL-P4	MAKE: CUTLER HAMMER		RATING: 120/240V 1Ø 3W		70A MAIN CIRCUIT BREAKER (FRAME)	
	TYPE: P1		MOUNTING: SURFACE		EQUIPMENT GROUND BUS ☒ YES ☐ NO	
	LOAD SERVED		VA PER PHASE	CKT BRKR	CKT NO.	LOAD SERVED
	A	B				
POLE #4 - HEADS #1 & #2	1300		20/2	1	2	1300
2#10 + 1#10 E.G.		1300	-	3	4	1300
POLE #4 - HEADS #3 & #4	1300		20/2	5	6	650
2#10 + 1#10 E.G.		1300	-	7	8	650
POLE #4 - HEADS #5 & #6	1300		20/2	9	10	-
2#10 + 1#10 E.G.		1300	-	11	12	-
REMARKS	3900	3900	SUB-TOTAL "B"		100A BUS	SUB-TOTAL "A"
NEMA 3R LOCKABLE ENCLOSURE POLE MOUNTED				100A LUGS	SUB-TOTAL "B"	3900 3900
				100A S/N	GRAND TOTAL	5850 5850
				BOTT. FEED	AMPS / PHASE	49 49
						MIN. 18,000 A.I.C.
						SYM. AMPERES
						LUGS/PHASE (1) - #4
						LUGS/NEUT. (1) - #4

PANEL-P5	MAKE: CUTLER HAMMER		RATING: 120/240V 1Ø 3W		70A MAIN CIRCUIT BREAKER (FRAME)	
	TYPE: P1		MOUNTING: SURFACE		EQUIPMENT GROUND BUS ☒ YES ☐ NO	
	LOAD SERVED		VA PER PHASE	CKT BRKR	CKT NO.	LOAD SERVED
	A	B				
POLE #5 - HEADS #1 & #2	1300		20/2	1	2	1300
2#10 + 1#10 E.G.		1300	-	3	4	1300
POLE #5 - HEADS #3 & #4	1300		20/2	5	6	650
2#10 + 1#10 E.G.		1300	-	7	8	650
POLE #5 - HEADS #5 & #6	1300		20/2	9	10	-
2#10 + 1#10 E.G.		1300	-	11	12	-
REMARKS	3900	3900	SUB-TOTAL "B"		100A BUS	SUB-TOTAL "A"
NEMA 3R LOCKABLE ENCLOSURE POLE MOUNTED				100A LUGS	SUB-TOTAL "B"	3900 3900
				100A S/N	GRAND TOTAL	5850 5850
				BOTT. FEED	AMPS / PHASE	49 49
						MIN. 18,000 A.I.C.
						SYM. AMPERES
						LUGS/PHASE (1) - #4
						LUGS/NEUT. (1) - #4

PANEL-P6	MAKE: CUTLER HAMMER		RATING: 120/240V 1Ø 3W		70A MAIN CIRCUIT BREAKER (FRAME)	
	TYPE: P1		MOUNTING: SURFACE		EQUIPMENT GROUND BUS ☒ YES ☐ NO	
	LOAD SERVED		VA PER PHASE	CKT BRKR	CKT NO.	LOAD SERVED
	A	B				
POLE #6 - HEADS #1 & #2	1300		20/2	1	2	-
2#10 + 1#10 E.G.		1300	-	3	4	-
POLE #6 - HEADS #3 & #4	1300		20/2	5	6	-
2#10 + 1#10 E.G.		1300	-	7	8	-
POLE #6 - HEADS #5 & #6	1300		20/2	9	10	-
2#10 + 1#10 E.G.		1300	-	11	12	-
REMARKS	3900	3900	SUB-TOTAL "B"		100A BUS	SUB-TOTAL "A"
NEMA 3R LOCKABLE ENCLOSURE POLE MOUNTED				100A LUGS	SUB-TOTAL "B"	3900 3900
				100A S/N	GRAND TOTAL	3900 3900
				BOTT. FEED	AMPS / PHASE	33 33
						MIN. 18,000 A.I.C.
						SYM. AMPERES
						LUGS/PHASE (1) - #4
						LUGS/NEUT. (1) - #4

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CHARLES B. LACKO

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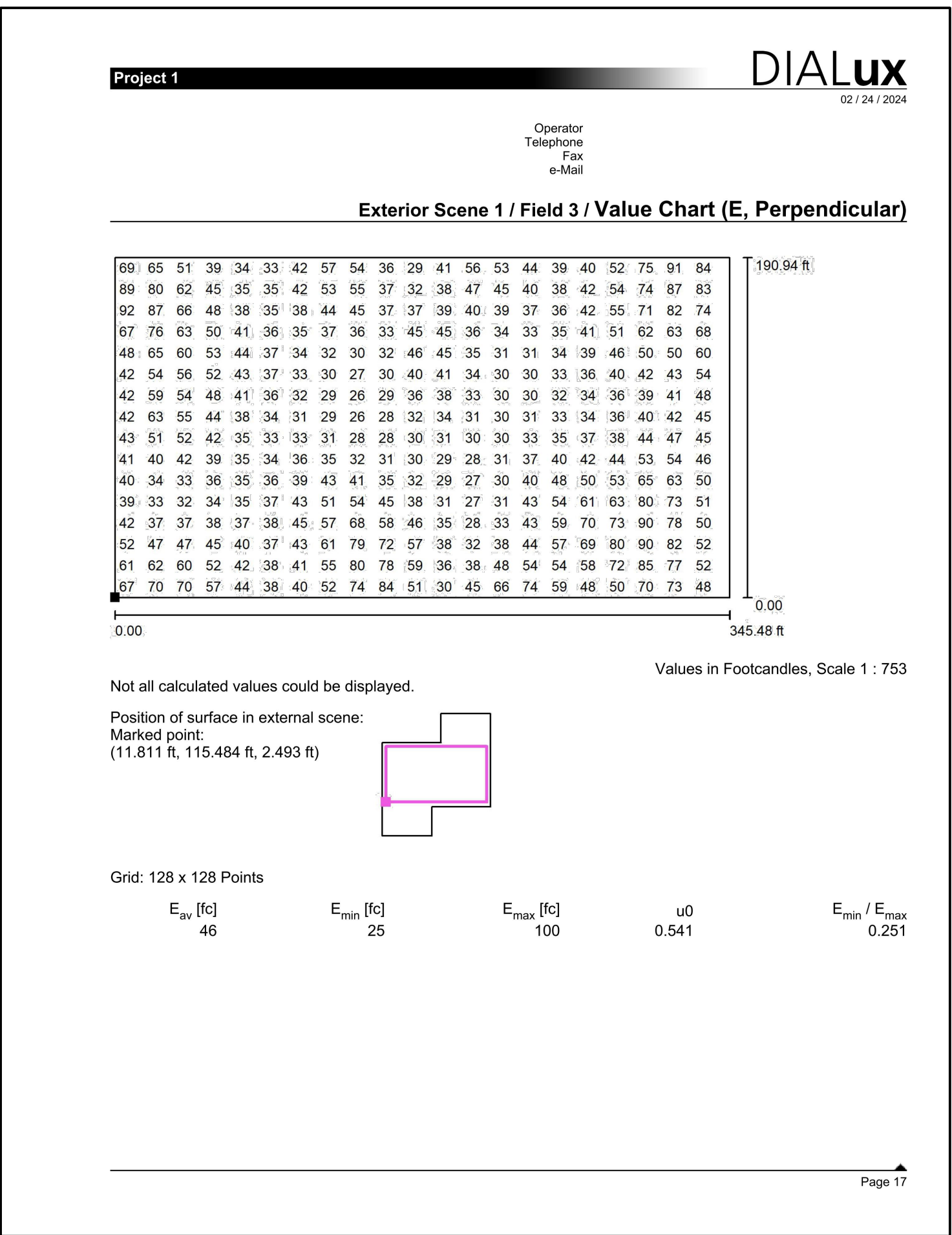
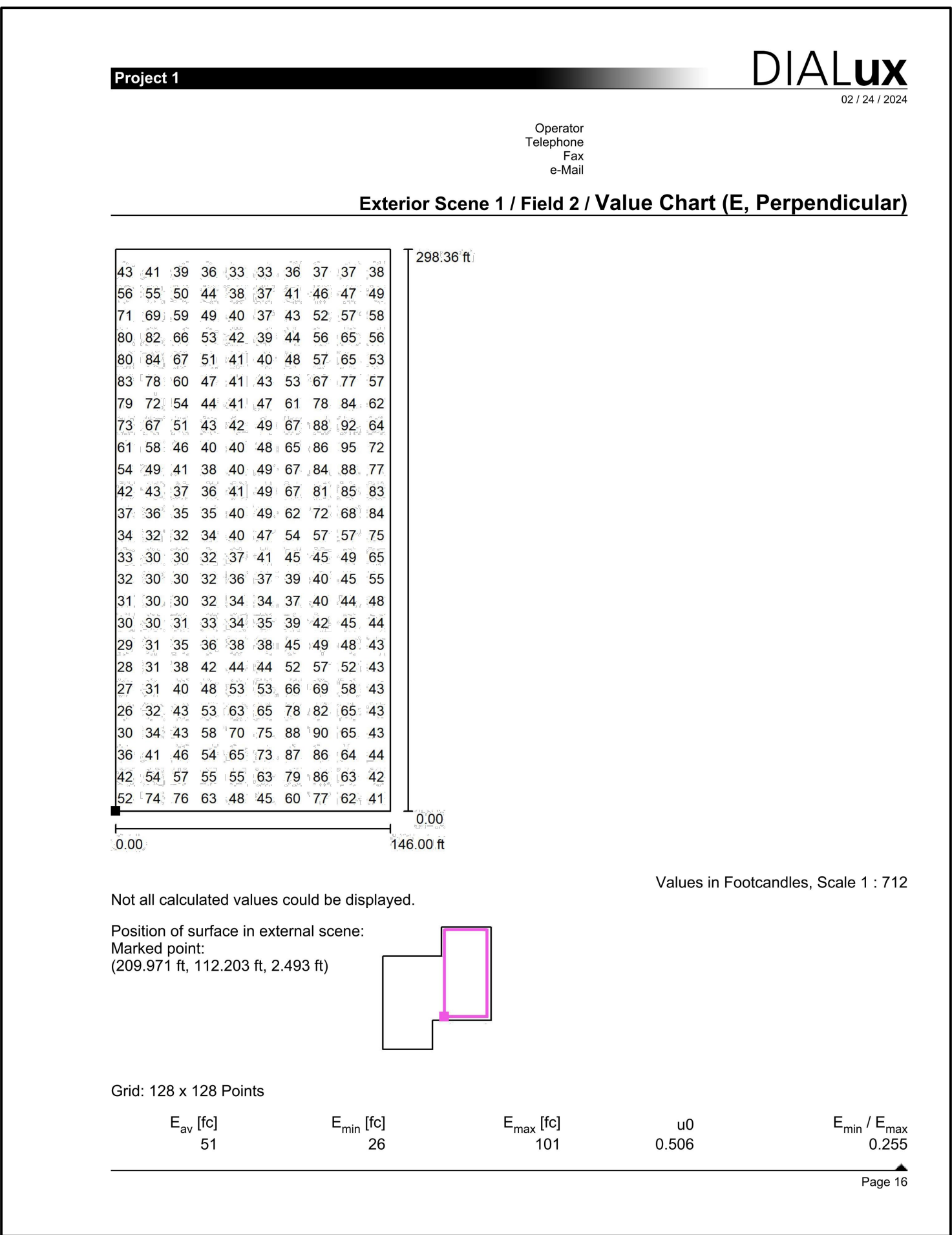
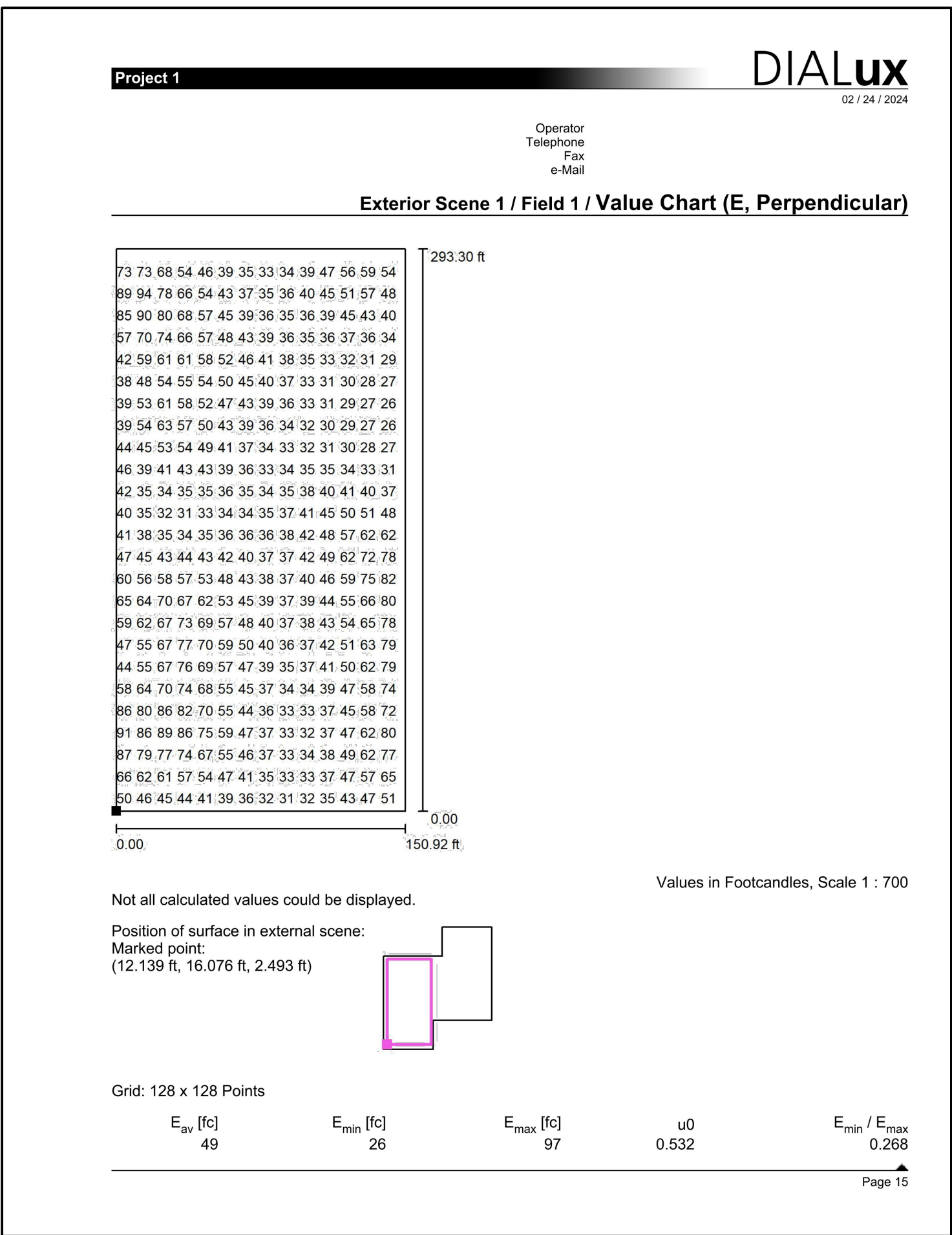
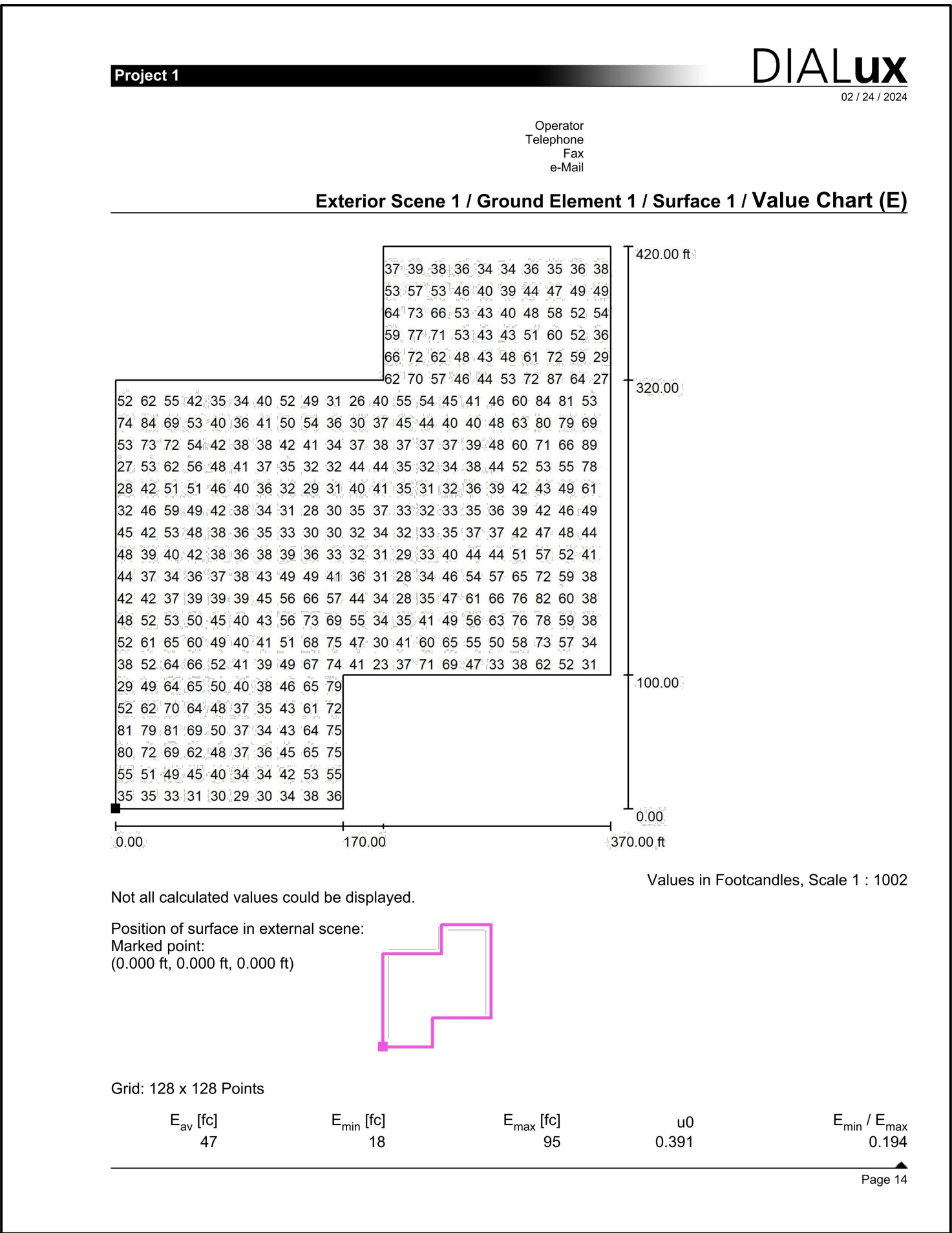
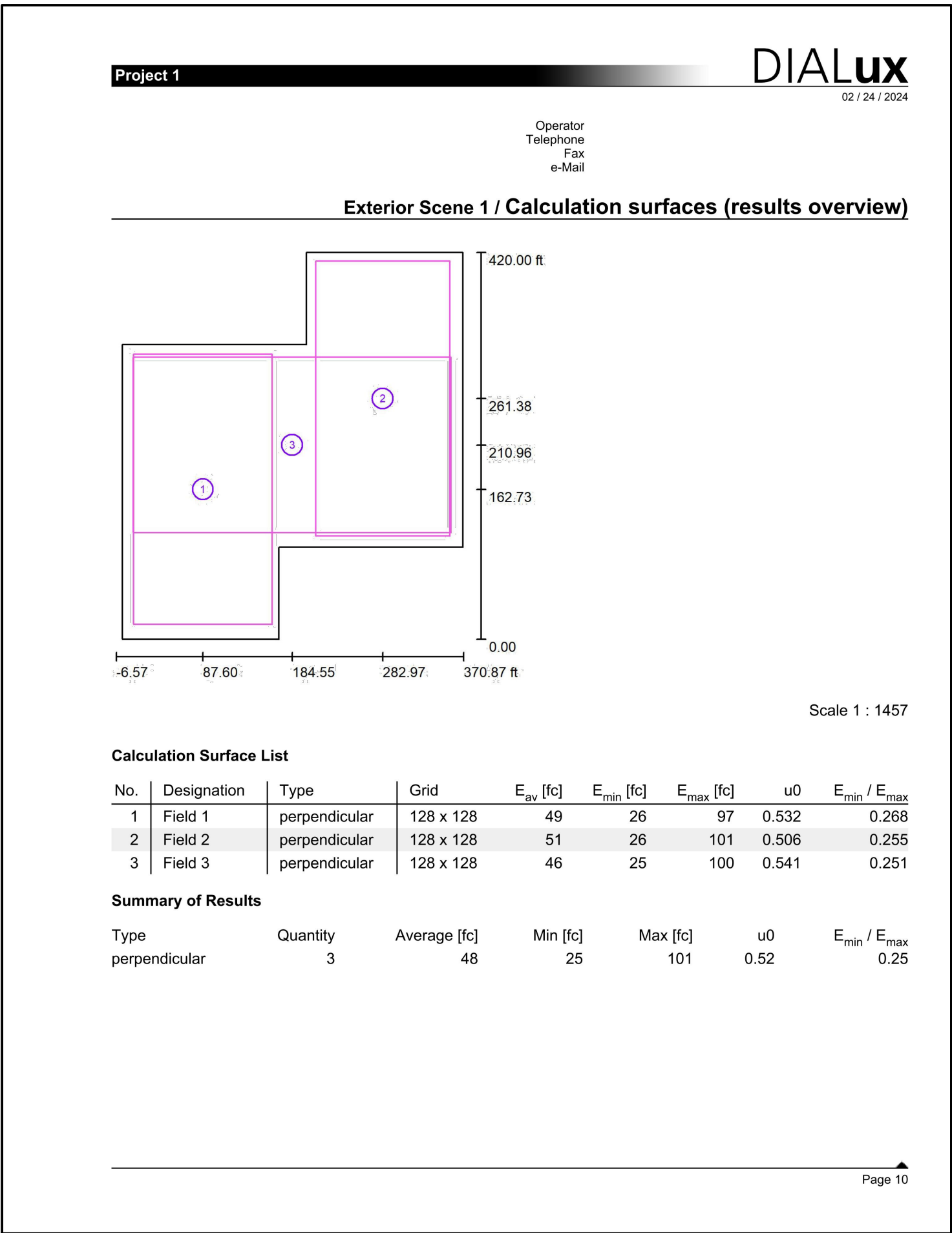
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PROJECT NUMBER
23-212
SHEET NUMBER
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