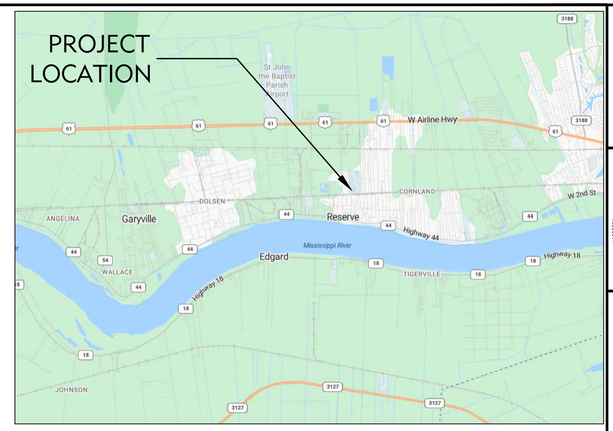
SHEET INDEX	
#	SHEET TITLE
T1.0	TITLE SHEET
E0.0	ELECTRICAL COVER SHEET
E1.0	ELECTRICAL PLAN
E1.1	LIGHTING CALCULATIONS
E2.0	ELECTRICAL SCHEDULE AND DETAILS
E3.0	ELECTRICAL SPECIFICATIONS



REGALA PARK TRAIL LIGHTING

ST. JOHN THE BAPTIST PARISH, LOUISIANA
A/E PROJECT NO. 25-1130-0027

LOCATION MAP

NORTH

VICINITY MAP

NORTH

ST. JOHN THE BAPTIST PARISH

JACLYN HOTARD - PARISH PRESIDENT

PETER MONTZ - CHIEF ADMINISTRATIVE OFFICER

COUNCIL MEMBERS

LENNIX MADERE JR, DIVISION A COUNCILMAN
MICHAEL P. WRIGHT, DIVISION B COUNCILMAN
VIRGIE JARROW JOHNSON, DISTRICT 1 COUNCILWOMAN
WARREN "BOSCO" TORRES, DISTRICT 2 COUNCILMAN
TAMMY HOUSTON, DISTRICT 3 COUNCILWOMAN
TYRA DUHE-GRIFFIN, DISTRICT 4 COUNCILWOMAN
ROBERT ARCURI, DISTRICT 5 COUNCILMAN
VERNON BAILEY SR, DISTRICT 6 COUNCILMAN
DIXIE RAMIREZ, DISTRICT 7 COUNCILWOMAN

project no. 25-1130-0027
drawn MAS
checked DPD
date 12/12/2025
revised

STATE OF LOUISIANA
DONOVAN P. DUFFY
License No. 41844
PROFESSIONAL ENGINEER
IN
12/12/2025
CIVIL ENGINEERING

Meyer Engineers, Ltd.
A Thompson Holdings Company
4937 Hearst Street | Suite 1B
Metairie, Louisiana 70001
504.885.9892 (o)
www.meyer-e-l.com

meyer
ENGINEERS + ARCHITECTS

TITLE SHEET

REGALA PARK TRAIL LIGHTING
REGALA PARK
ST. JOHN THE BAPTIST PARISH, OWNER

sheet no.
T1.0
of _____ sheets

P:\2025\Projects\1130\25-1130-0027 Regala Pedestrian Trail Lights\Project Design\Civil\Drawings\25-1130-0027 01 Title Sheet.dwg

ELECTRICAL SYMBOL LEGEND

(REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS)

GENERAL

1	KEYNOTE
A-1,3	CIRCUIT TAG; PANEL AND CIRCUIT DESIGNATION AS INDICATED; E.G. PANEL "A", CIRCUIT #1,3

WIRE, CONDUIT, AND RACEWAY

	ABOVE-SLAB CONDUIT & WIRE/CABLING
	BELOW-SLAB CONDUIT & WIRE/CABLING; 3/4" MINIMUM CONDUIT SIZE UON
	HOMERUN TO PANEL; TICK MARKS INDICATED NUMBER OF WIRES

DISTRIBUTION

	PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT AS NOTED; INSTALL WITH SUFFICIENT WORKING SPACE AND CLEARANCES TO MEET ALL REQUIREMENTS OF NEC SECTION 110.26.
GEN-ANNC	GENERATOR REMOTE ANNUNCIATOR PANEL; PROVIDE CONDUIT/CABLING TO GENERATOR AS REQUIRED PER THE MANUFACTURER'S SPECIFICATIONS.

EQUIPMENT CONNECTIONS

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE)

	FUSED SAFETY DISCONNECT SWITCH; LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED WITH 36" MINIMUM CLEAR WORKING SPACE IN FRONT OF THE SWITCH; DO NOT MOUNT DIRECTLY TO EQUIPMENT
J	JUNCTION BOX
M	JUNCTION BOX FOR MOTORIZED DAMPER
S^M	MOTOR RATED SWITCH WITH THERMAL OVERLOAD; LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED; DO NOT MOUNT DIRECTLY TO EQUIPMENT; WHEN LOCATED ABOVE CEILING, MOUNT TO STRUCTURAL MEMBER NEARBY.
6	ELECTRICAL MOTOR, HORSEPOWER AS NOTED

POWER DEVICES

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE)

	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE MOUNTED FLUSH TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING; SUBSCRIPT (WHEN USED): CR - CORD REEL
	ABOVE-COUNTER DUPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)
	GFCI DUPLEX RECEPTACLE
	ABOVE-COUNTER GFCI DUPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)
	QUADRAPLEX RECEPTACLE
	ABOVE-COUNTER QUADRAPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPLASH OR 44" (WHICHEVER IS LOWER)
	SPECIAL PURPOSE RECEPTACLE; VERIFY NEMA CONFIGURATION WITH THE MANUFACTURER OF THE EQUIPMENT SERVED
	VOICE/DATA/POWER FLUSH FLOOR BOX
	DUPLEX RECEPTACLE FLUSH FLOOR BOX
	QUADRAPLEX RECEPTACLE FLUSH FLOOR BOX
	RECEPTACLE SWITCHING; EDGE SHADING INDICATES: NONE - DEVICE NOT SWITCHED LEFT - BOTTOM (DUPLEX) OR LEFT TWO (QUAD) SWITCHED RIGHT - TOP (DUPLEX) OR RIGHT TWO (QUAD) SWITCHED
PB	NEW 6"W X 8"L X 6"D IN-GROUND WEATHERPROOF PULLBOX.

LIGHTING

(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND PER THE MANUFACTURER'S SPECIFICATIONS FOR CONTROLS)

Aa	LIGHT FIXTURE; UPPERCASE LETTER(S) INDICATE FIXTURE TYPE; LOWERCASE LETTER(S) INDICATE ASSOCIATED CONTROLS ID; SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTIONS AND MOUNTING TYPES
X	EXIT LIGHT FIXTURE. ARROWS (IF USED) INDICATE DIRECTION. FILLED IN QUADRANT(S) INDICATE NUMBER AND ORIENTATION OF ILLUMINATED FACES. LETTER(S) INDICATE FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION.
OS	CEILING MOUNTED OCCUPANCY SENSOR WITH 360° COVERAGE. LOCATE AND INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME DELAY AS REQUIRED BY THE OWNER
DH	CEILING MOUNTED DAYLIGHT HARVESTING SENSOR, LOCATED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME DELAY AS REQUIRED PER CODE
VS	CEILING MOUNTED OCCUPANCY SENSOR, AS ABOVE, CONFIGURED FOR VACANCY OPERATION
P	PHOTOELECTRIC CELL, EXTERIOR RATED; AIM AND SHIELD SENSOR FROM INTERIOR AND EXTERIOR ARTIFICIAL LIGHT SOURCES
S	SWITCH; SUBSCRIPT (WHEN USED): NONE - SINGLE POLE TOGGLE SWITCH 3 - THREE-WAY SWITCH D - LINEAR SLIDE DIMMER SWITCH 3D - THREE-WAY LINEAR SLIDE DIMMER SWITCH O - WALL MOUNTED OCCUPANCY SENSOR 3O - THREE-WAY SWITCH WITH OCCUPANCY SENSOR a,b,c etc. - SWITCH ID

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE AHJ.
2. THE WORDS "PROVIDE" AND "PROVIDED" AS USED HEREIN SHALL BE UNDERSTOOD TO MEAN, "PROVIDE COMPLETE IN PLACE," THAT IS "FURNISH AND INSTALL". EQUIPMENT AND MATERIAL INDICATED TO BE PROVIDED SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE OF THE MOST SUITABLE GRADE FOR THE PURPOSE INTENDED.
3. ROUTE NEW CONDUIT AND WIRING CONCEALED IN WALLS AND CEILING WHERE POSSIBLE. COORDINATE INSTALLATION OF EXPOSED CONDUIT AND WIRING WITH THE ARCHITECT.
4. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE TO NEW HVAC UNITS AS FURNISHED BY THE MECHANICAL CONTRACTOR. VERIFY THE EXACT ELECTRICAL REQUIREMENTS WITH THE REVIEWED HVAC SUBMITTALS PRIOR TO ORDERING ELECTRICAL EQUIPMENT.
5. BEFORE INSTALLATION, CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS TO THE ENGINEER FOR REVIEW COVERING PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR ALL CONDUITS, SERVICES, FITTINGS, GROUND RODS, SUPPORTS, ETC.
6. CONTRACTOR IS RESPONSIBLE FOR OVER-CURRENT PROTECTIVE DEVICE SHORT CIRCUIT, COORDINATION, AND ARC-FLASH STUDIES.
7. MATERIALS AND MANUFACTURERS NOTED ON DRAWINGS ARE TO BE USED AS BASIS OF DESIGN TO ESTABLISH QUALITY AND PERFORMANCE STANDARDS AND SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTIONS WILL BE CONSIDERED WHERE SUFFICIENT PRODUCT INFORMATION IS PROVIDED TO MAKE A PROPER EVALUATION. REVIEW OF A SUBSTITUTION IS AT THE SOLE DISCRETION OF THE PROFESSIONAL.
8. THE CONTRACTOR SHALL SUBMIT COPIES OF THE PRODUCT DATA, SHOP DRAWINGS, ETC. OF ALL MATERIALS NOTED ON THE DRAWINGS. ALL SUBMITTED PRODUCT DATA, SHOP DRAWINGS, ETC. SHALL BE MARKED WITH THE NAME OF THE PROJECT AND SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE MATERIAL HAS BEEN CHECKED BY THE CONTRACTOR.
9. DRAWINGS SPECIFIC TO THIS TRADE DO NOT LIMIT THE RESPONSIBILITY OR WORK REQUIRED BY THE CONTRACT DOCUMENTS. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR COMPLETE INFORMATION PRIOR TO BID.
10. WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES, THE MOST STRINGENT REQUIREMENT OR QUANTITY SHALL APPLY. NOTIFY THE ARCHITECT/ENGINEER OF ALL CONFLICTS FOR RESOLUTION OR INTERPRETATION.
11. NO EQUIPMENT SHALL BE ORDERED OR INSTALLED UNTIL THE PROJECT ENGINEER HAS RECEIVED A COPY STAMPED "NO EXCEPTIONS TAKEN." "NO EXCEPTIONS TAKEN" DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT, EXTEND TO QUANTITIES OR DIMENSIONS, IMPLY THAT THE EQUIPMENT CAN BE INSTALLED OR OPERATE SATISFACTORILY, THAT THE EQUIPMENT CONTAINS ALL NECESSARY COMPONENTS, OR THAT IT WILL COORDINATE WITH OTHER REVIEWED ITEMS.
12. OMISSION FROM THIS SHEET OF ANY ITEM SHOWN ELSEWHERE IN THE PLANS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK.
13. COORDINATE INSTALLATION OF NEW ITEMS AND EQUIPMENT WITH THE OWNER'S REPRESENTATIVE AND THE WORK OF OTHER TRADES. THE CONTRACTOR SHALL INCUR ALL COSTS ASSOCIATED WITH THE RELOCATION OF EQUIPMENT CONFLICTING WITH NEW WORK BY OTHER TRADES THAT HAS NOT BEEN COORDINATED.
14. COORDINATE ALL ASPECTS OF NEW SERVICE WITH UTILITY COMPANY AND INCLUDE ALL COSTS IN BID.
15. WARNING TAPE SHALL BE INSTALLED 12 TO 18 INCHES BELOW GRADE OVER ALL CONDUITS.
16. PROVIDE 1/4" MINIMUM DIAMETER PULL ROPE. PULL ROPE SHALL NOT BE NYLON STRING.
17. FOR SERVICE ENTRANCE CONDUITS, UTILIZE LONG RADIUS (36") CONDUIT BENDS.
18. ALL CONDUIT RISERS FROM UNDERGROUND SHALL HAVE RIGID METAL ELLS AND RISERS.
19. PRIOR TO CONSTRUCTION, VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. AVOID DISTURBANCE OF EXISTING UTILITIES NOT INCLUDED IN THIS PROJECT.
20. SET SCREW CONDUIT FITTINGS SHALL NOT BE PERMITTED.

LIGHTING GENERAL NOTES

1. VERIFY THE EXACT LOCATION OF ALL LIGHTING SWITCHES WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.
3. VERIFY THE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS WITH THE MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION FOR MAXIMUM PERFORMANCE.
4. EMERGENCY FIXTURES AND EXIT FIXTURES SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT. BRANCH CIRCUIT WIRING TO EXIT FIXTURES AND TO BATTERY INVERTERS WITHIN FIXTURES WITH INTEGRAL BATTERY UNITS SHALL BE UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHING.
5. WALL MOUNT TYPE "Z" FIXTURES ABOVE DOOR AS SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECT PRIOR TO ROUGH-IN.
6. MOUNT TYPE "EM" FIXTURES 8'-0" AFF UNLESS OTHERWISE NOTED.
7. VERIFY THE CEILING TYPES FOR ALL LIGHT FIXTURES TO BE FLUSH MOUNTED OR SUSPENDED AND ADJUST FIXTURE MOUNTING TYPES IN ACCORDANCE WITH THE CEILING TYPE, AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL REQUIRED MOUNTING HARDWARE.
8. ALL VANITY FIXTURES SHALL BE MOUNTED WITH 0'-3" OF SPACE BETWEEN THE BOTTOM OF THE FIXTURE AND THE TOP OF THE MIRROR UNLESS OTHERWISE NOTED.
9. VERIFY THE EXACT MOUNTING LOCATION FOR ANY PHOTOELECTRIC CELLS WITH THE ARCHITECT PRIOR TO ROUGH-IN. ALL PHOTOELECTRIC CELLS MUST FACE NORTH.
10. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL DEVICES/SWITCHES/DIMMERS WITH LIGHTING FIXTURES AND BALLASTS/DRIVERS PRIOR TO SUBMITTAL.
11. COORDINATE LOCATION OF LIGHT FIXTURES IN MECHANICAL ROOMS WITH DIVISION 15/23 PLANNED EQUIPMENT LOCATION AND DUCT INSTALLATION. WALL MOUNT LIGHTS OR PROVIDE PENDANT MOUNTING AS REQUIRED TO ILLUMINATE THE SPACE.
12. WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN THE SAME AREA, MOTION DETECTION BY ONE SENSOR SHALL ILLUMINATE ALL LIGHTING IN THE RESPECTIVE AREA.

INDEX - ELECTRICAL SHEETS

ABBREVIATIONS

A	AMPERE(S)	CATV	CABLE TELEVISION	EF	EXHAUST FAN	FOC	FIBER OPTIC CABLE	MCB	MAIN CIRCUIT BREAKER	NO	NORMALLY OPEN	SF	SUPPLY FAN	UGS	UNDERGROUND SECONDARY
AC	ABOVE COUNTER (6" ABOVE BACKSPLASH)	CB	CIRCUIT BREAKER	EGC	EQUIPMENT GROUNDING CONDUCTOR	G, GND	GROUND	MCM/KCMIL	1,000 CIRCULAR MILS	NU	WEATHERPROOF IN-USE COVER	S/N	SOLID NEUTRAL	UH	UNIT HEATER
AF	AMPERE(S) FUSED	CKT	CIRCUIT	EMER.	EMERGENCY	GEC	GROUNDING ELECTRODE CONDUCTOR	MECH.	MECHANICAL	OH	OVERHEAD	SPD	SURGE PROTECTIVE DEVICE	UL	UNDERWRITER'S LABORATORY, INC.
AFCI	ARC FAULT CIRCUIT INTERRUPTER	CLG	CLG	EMT	ELECTRICAL METALLIC TUBING	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MH	MANHOLE	OHE	OVERHEAD ELECTRICAL	STD	STANDARD	UON	UNLESS OTHERWISE NOTED
AFF	ABOVE FINISHED FLOOR	CORR	CORRIDOR	EQ	EQUAL	GRS	GALVANIZED RIGID STEEL	MLO	MAIN LUGS ONLY	OSP	OUTSIDE PLANT	TEL	TELEPHONE	V	VOLTS
AFG	ABOVE FINISHED GRADE	CT	CURRENT TRANSFORMER	EQUIP.	EQUIPMENT	HH	HANDHOLE	MOCP	MAXIMUM OVERCURRENT PROTECTION	UPP	UTILITY POWER POLE	TELECOM	TELECOMMUNICATIONS	VAC	VOLTS ALTERNATING CURRENT
AIC	AMP SYMMETRICAL INTERRUPTING CAPACITY RMS	CTRL	CONTROLLER	EWC	ELECTRIC WATER COOLER	HP	HORSEPOWER	MTD	MOUNTED	PB	PULL BOX	TGB	TELECOMMUNICATIONS GROUND BUS	VDC	VOLTS DIRECT CURRENT
AT	AMPERE(S) TRIP	D	TO BE DEMOLISHED	EWH	ELECTRIC WATER HEATER	KAIC	1,000 AMP SYMMETRICAL INTERRUPTING CAPACITY RMS	MTG	MOUNTING	PH	PHASE	TMGB	TELECOMMUNICATIONS MAIN GROUND BUS	VFD	VARIABLE FREQUENCY DRIVE
AWG	AMERICAN WIRE GAUGE	DISC.	DISCONNECT	EXIST.	EXISTING	KWH	1,000 WATT HOURS	NC	NORMALLY CLOSED	PNL	PANEL	TTB	TELECOM TERMINAL BOARD	WH	WATER HEATER
BG	BELOW GRADE	DIST.	DISTRIBUTION	FACP	FIRE ALARM CONTROL PANEL	KVA	1,000 VOLT AMPERES	NEC	NATIONAL ELECTRICAL CODE	PV	PHOTOVOLTAIC	TV	TELEVISION	WP	WEATHERPROOF
BLDG	BUILDING	DWG	DRAWING	FACPRA	FIRE ALARM CONTROL PANEL REMOTE ANNUNCIATOR	LAN	LOCAL AREA NETWORK	NEU	NEUTRAL	PVC	POLYVINYL CHLORIDE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION	XFMR	TRANSFORMER
BKR	BREAKER	E	EXISTING TO REMAIN	FC	FOOTCANDLE	LC	LIGHTING CONTACTOR	NF	NON-FUSED	QTY	QUANTITY	TYP.	TYPICAL		
C	CONDUIT	EC	EMPTY CONDUIT	FCU	FAN COIL UNIT	LTG	LIGHTING	NIC	NOT IN CONTRACT	RCPT	RECEPTACLE	UG	UNDERGROUND		
CAT	CATEGORY	ECB	ENCLOSED CIRCUIT BREAKER	FLA	FULL LOAD AMPERE(S)	MCA	MINIMUM CIRCUIT AMPACITY	NL	NIGHT LIGHT	REQ'D	REQUIRED	UGP	UNDERGROUND PRIMARY		

ALL SYMBOLS, ABBREVIATIONS, AND NOTES ABOVE ARE TYPICAL AND ARE NOT NECESSARILY USED IN THESE CONSTRUCTION DOCUMENTS

PARISH ENGINEERING
1450 Seabord Drive
Baton Rouge, LA 70810
225.332.0222
parisheng.com| #25-134

project no.	25-1130-0027
drawn	HJM
checked	SPG
date	12/16/25
revised	

STATE OF LOUISIANA
MICHAEL LEE TERRY, III
LICENSE NO. 42812
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
12/16/2025

Meyer Engineers, Ltd.
A Thompson Holdings Company
4937 Hearst Street|Suite 1B
Metairie, Louisiana 70001
504.885.9892 (o)
www.meyer-e-l.com

meyer
ENGINEERS + ARCHITECTS

ELECTRICAL COVER SHEET

REGALA PARK TRAIL LIGHTING
REGALA PARK
ST. JOHN THE BAPTIST PARISH, OWNER

sheet no.
E0.0
of ______ sheets

NORTH

1 POWER PLAN
1/32" = 1'-0"

ELECTRICAL KEYNOTES:

1. PROVIDE AND INSTALL 1"C, 3#8 THWN & 1#10 GND.
2. PROVIDE AND INSTALL 1"C, 3#10 THWN & 1#10 GND.

project no. 25-1130-0027
drawn HJM
checked SPG
date 12/16/25
revised

STATE OF LOUISIANA
MICHAEL PERRY III
LICENSED PROFESSIONAL ENGINEER
ELECTRICAL
12/16/2025

Meyer Engineers, Ltd.
A Thompson Holdings Company
4937 Hearst Street| Suite 1B
Metairie, Louisiana 70001
504.885.9892 (o)
www.meyer-e-l.com

meyer
ENGINEERS + ARCHITECTS

ELECTRICAL PLAN

REGALA PARK TRAIL LIGHTING
REGALA PARK
ST. JOHN THE BAPTIST PARISH, OWNER

PARISH ENGINEERING
1450 Seabord Drive
Baton Rouge, LA 70810
225.332.0222
parisheng.com| #25-134

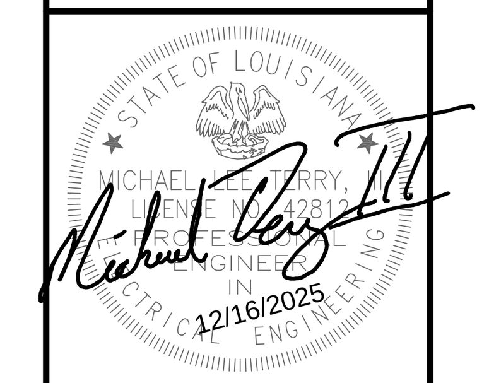
sheet no.
E1.0
of _____ sheets

Overall walk path

Statistics						
Description	**Symbol**	**Avg**	**Max**	**Min**	**Max/Min**	**Avg/Min**
Walk path South West Corner	+	1.8 fc	4.4 fc	0.2 fc	22.0:1	9.0:1
Walk Path to Splash Pad	+	3.1 fc	6.0 fc	1.1 fc	5.5:1	2.8:1
Walk path	+	3.1 fc	8.2 fc	0.6 fc	13.7:1	5.2:1

1 LIGHTING CALCULATIONS
N.T.S.

project no. 25-1130-0027
drawn HJM
checked SPG
date 12/16/25
revised



Meyer Engineers, Ltd.
A Thompson Holdings Company
4937 Hearst Street|Suite 1B
Metairie, Louisiana 70001
504.885.9892 (o)
www.meyer-e-l.com

meyer
ENGINEERS + ARCHITECTS

LIGHTING CALCULATIONS

REGALA PARK TRAIL LIGHTING
REGALA PARK
ST. JOHN THE BAPTIST PARISH, OWNER

PARISH ENGINEERING
1450 Seabord Drive
Baton Rouge, LA 70810
225.332.0222
parisheng.com| #25-134

sheet no.
E1.1
of ______ sheets

C:\Users\Sean Ghashghaee\Documents\25-134 CRM R24 UPDATED_sghashghaee.rvt

Branch Panel: MPC

Location:
Supply From:
Mounting: SURFACE
Enclosure: NEMA-3R
Number of Sections:

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Mains Rating: 200 A
MCB Rating: 150 A

Panel Schedule Notes:
*(E) INDICATES EXISTING LOADS

CKT	TRIP	POLES	WIRE	GND	CONDUIT	Circuit Description	A		B		C		Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	CKT
1	50 A	3	--	--	--	(E) STORAGE BUILDING LOAD CENTER	4.8 kVA	5.8 kVA					(E) RESTROOM	--	--	--	3	60 A	2
3									4.8 kVA	5.8 kVA									4
5											4.8 kVA	5.8 kVA							6
7	20 A	2	3#8	#10	3/4"	POLE LIGHTS	0.3 kVA	0.4 kVA					POLE LIGHTS	1"	#10	3#8	2	20 A	8
9									0.3 kVA	0.4 kVA									10
11	20 A	2	3#10	#10	3/4"	POLE LIGHTS					0.4 kVA	0.0 kVA	SPARE	--	--	--	1	20 A	12
13							0.4 kVA	0.0 kVA					SPARE	--	--	--	1	20 A	14
15	20 A	1	--	--	--	SPARE			0.0 kVA	0.0 kVA			SPD	1-1/4"	#10	3#6	3	60 A	16
17	20 A	1	--	--	--	SPARE					0.0 kVA	0.0 kVA							18
19	20 A	1	--	--	--	SPARE	0.0 kVA	0.0 kVA											20
							11638 VA		11235 VA		10960 VA								
							97 A		94 A		91 A								

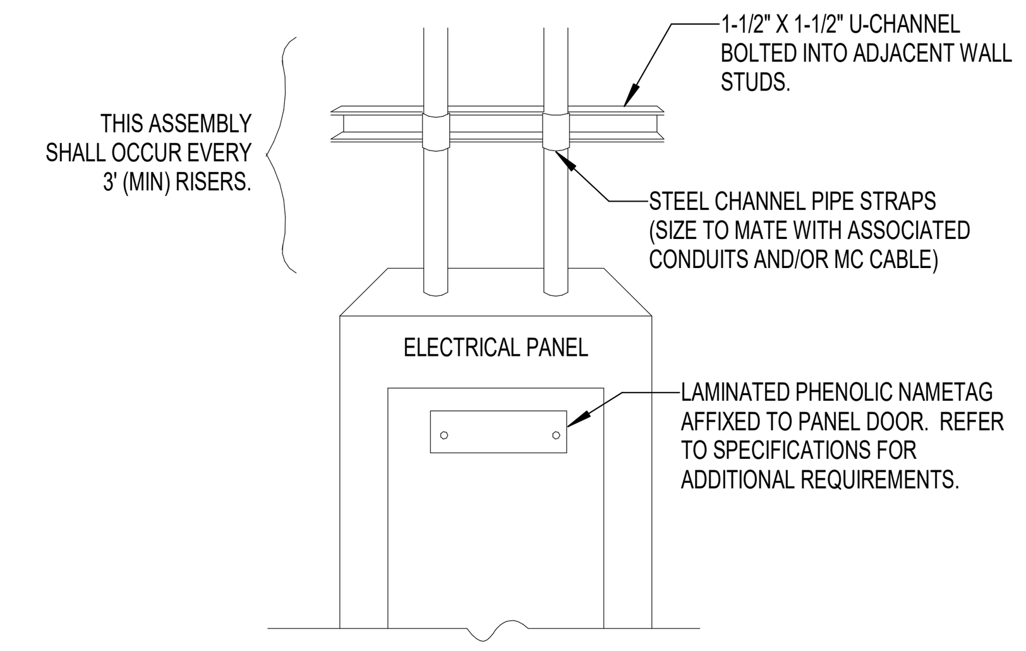
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	14393 VA	100.00%	14393 VA		
Lighting	2365 VA	125.00%	2956 VA	Total Conn. Load:	33830 VA
Miscellaneous	17293 VA	100.00%	17293 VA	Total Est. Demand:	34371 VA
				Total Conn.:	94 A
				Total Est. Demand:	95 A

Load Summary Notes:

SCHEDULE - LIGHTING FIXTURES

NOTES:
** FINISH TO BE SELECTED BY ARCHITECT

MARK	DESCRIPTION	LAMPS	VOLTS	LOAD	TEMP.	LUMENS	MOUNTING	BASIS OF DESIGN		ACCEPTABLE ALTERNATIVE		COUNT
								MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	
A	SINGLE HEAD POLE MOUNTED LED AREA LIGHTING FIXTURE 16' AFF. POLE SHALL BE 13'-0" IN HEIGHT. LIGHTING POLES SHALL BE RATED FOR 130MPH WITH A 1.3 GUST RATING.	LED	208	55 VA	4000	7,633	POLE	LSI	FIXTURE: OPS-PT-8L-3W-40K8-**-IMSBT1L-122515-764420CLR; POLE: 4RP-I-S10G-14-S-**	LITHONIA	FIXTURE: RADPT LED-P2-40K-PATH-208-RADPT20-PE-**; POLE: RSS-14-4B-PT-**	43



1 DETAIL - CONDUIT SUPPORT
N.T.S.

TYPICAL PANELBOARD PLAQUE

(INDICATE PANEL DESIGNATION)
__/__ VOLTS __ PHASE __ WIRE
__ AMPS MAIN __
FED FROM
(INDICATE FEEDER ORIGINATION I.D.)
(PANEL AND CIRCUIT NO.)

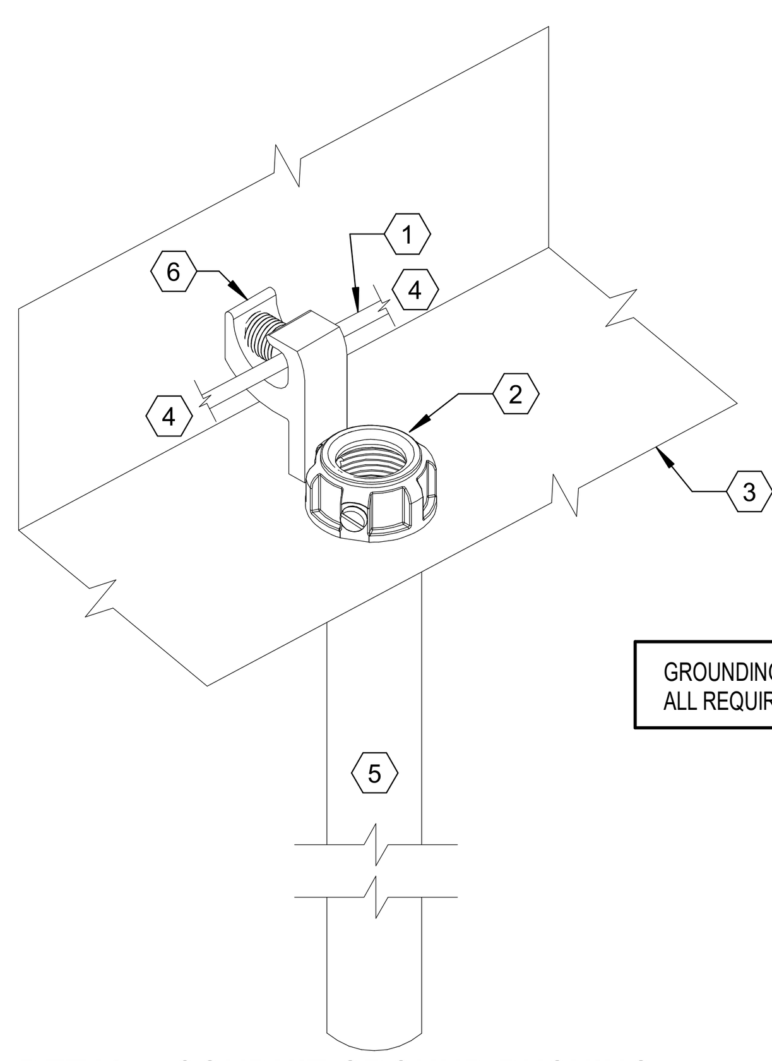
TYPICAL DISCONNECT PLAQUE

(INDICATE EQUIPMENT DESCRIPTION)
FUSED AT __ AMPERES
FED FROM
(INDICATE FEEDER ORIGINATION I.D.)
(PANEL AND CIRCUIT NO.)

SEE SPECIFICATIONS FOR MATERIALS, COLORS SIZE LETTERING, ETC.

ATTACH PLAQUES USING INDUSTRIAL GRADE DOUBLE FACE ADHESIVE.

2 DETAIL - EQUIPMENT SIGNAGE
N.T.S.

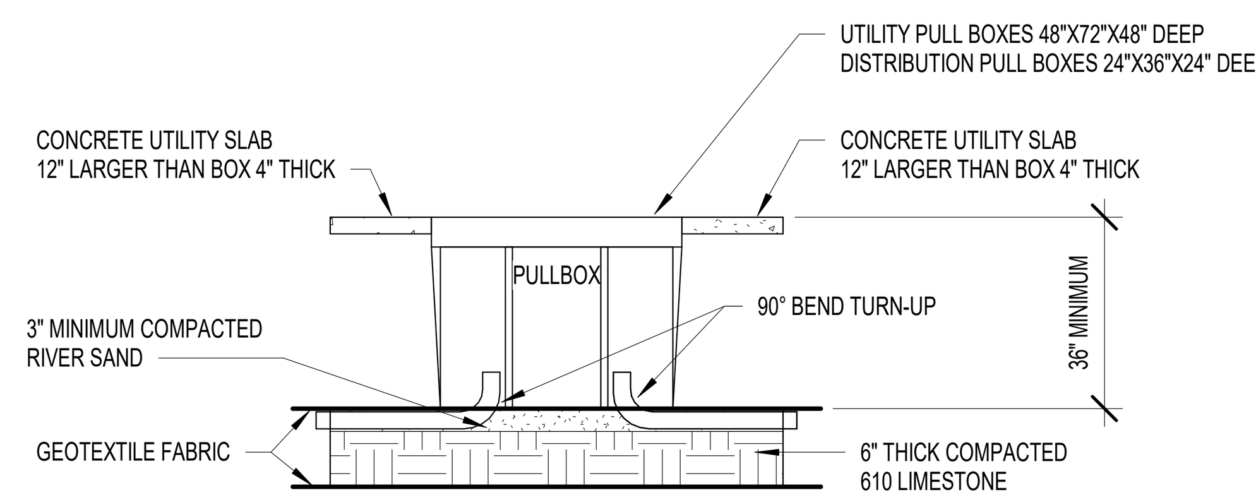


DETAIL KEYNOTES

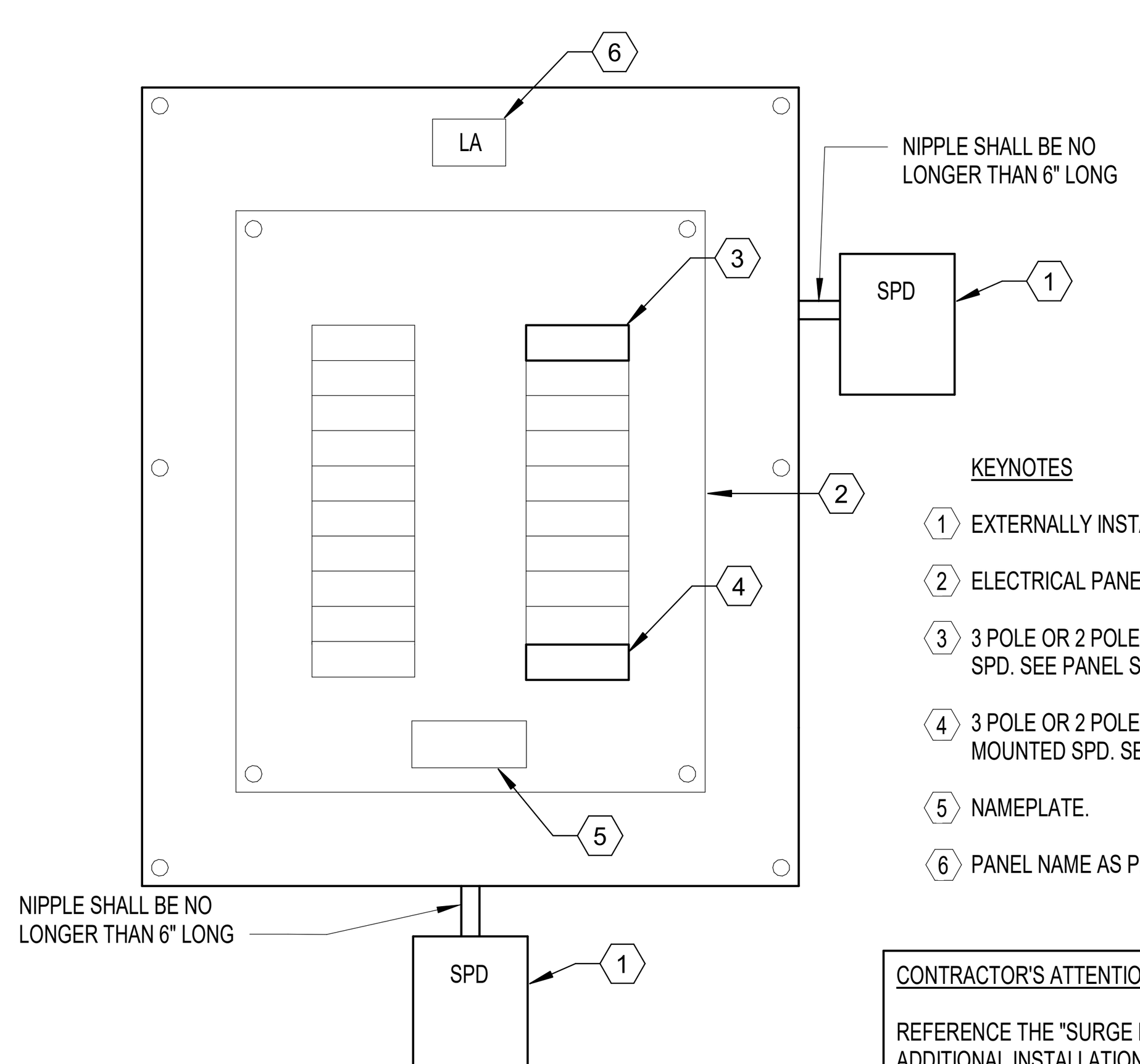
1. SUPPLY SIDE EQUIPMENT BONDING JUMPER.
2. UL 467 LISTED GROUNDING BUSHING BY APPLETON, EATON, OR APPROVED EQUIVALENT.
3. ENCLOSURE.
4. TO ENCLOSURE GROUND BUS OR ADDITIONAL CONDUITS (AS REQUIRED).
5. INCOMING CONDUIT.
6. INTEGRAL BRACKET FOR ATTACHMENT OF BONDING JUMPER.

GROUNDING INSTALLATION SHALL MEET ALL REQUIREMENTS OF NEC 250.92.

3 DETAIL - CONDUIT GROUND BUSHING
N.T.S.



4 DETAIL - PULL BOX
N.T.S.



KEYNOTES

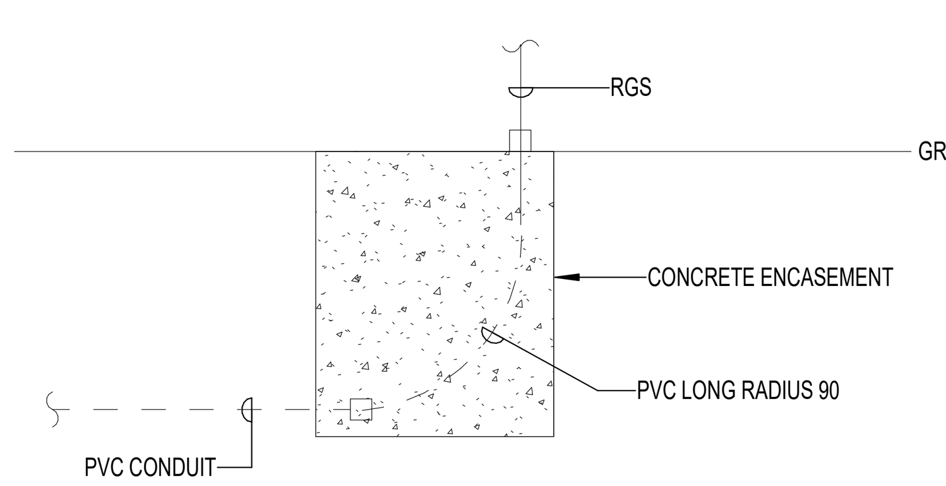
1. EXTERNALLY INSTALLED SPD.
2. ELECTRICAL PANEL.
3. 3 POLE OR 2 POLE CIRCUIT BREAKER POSITION FOR TOP MOUNTED SPD. SEE PANEL SCHEDULE.
4. 3 POLE OR 2 POLE CIRCUIT BREAKER POSITION FOR BOTTOM MOUNTED SPD. SEE PANEL SCHEDULE.
5. NAMEPLATE.
6. PANEL NAME AS PER PROJECT PANEL.

CONTRACTOR'S ATTENTION:

REFERENCE THE "SURGE PROTECTION DEVICE" SPECIFICATION FOR ADDITIONAL INSTALLATION REQUIREMENTS.

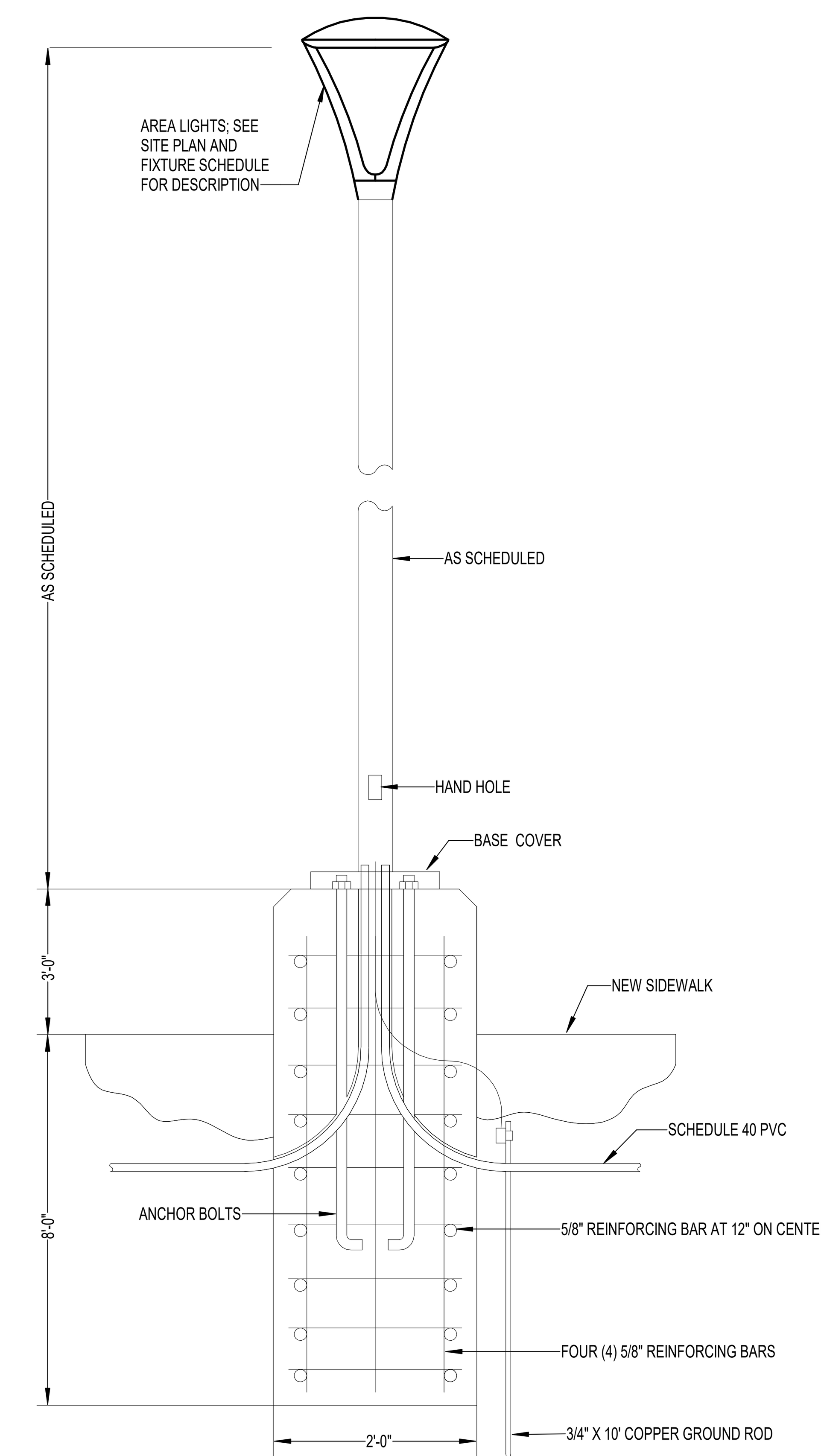
VERTICAL ORIENTATION

5 DETAIL - EXTERNAL SPD INSTALLATION
N.T.S.



NOTE:
SUBMIT DIGITAL PHOTOGRAPHS OF INSTALLATION PRIOR TO POURING CONCRETE AND AFTER POURING CONCRETE.

6 DETAIL - STUB-UP NEW
N.T.S.



8 DETAIL - WALK PATH POLE
N.T.S.

PARISH ENGINEERING
1450 Seabord Drive
Baton Rouge, LA 70810
225.332.0222
parisheng.com | #25-134

project no. 25-1130-0027
drawn HJM
checked SPG
date 12/16/25
revised

STATE OF LOUISIANA
MICHAEL LEE TERRY, III
LICENSE No. 42812
PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
12/16/2025

Meyer Engineers, Ltd.
A Thompson Holdings Company
4937 Hearst Street | Suite 1B
Metairie, Louisiana 70001
504.885.9892 (o)
www.meyer-e-l.com

meyer
ENGINEERS + ARCHITECTS

ELECTRICAL SCHEDULES & DETAILS

REGALA PARK TRAIL LIGHTING
REGALA PARK
ST. JOHN THE BAPTIST PARISH, OWNER

sheet no.
E2.0
of ______ sheets

ELECTRICAL SPECIFICATIONS

PART 1.0 GENERAL

1.1 GENERAL CONDITIONS

A. The General Conditions and Supplementary General Conditions are a part of this section of these Specifications. The Contractor is cautioned to read and be thoroughly familiar with all provisions of the General Conditions. These conditions shall be complied with in every aspect. The word "shall" where used, is to be understood, as mandatory and the word "should" as advisory. "May" is used in the permissive sense.

1.2 MINIMUM STANDARDS

A. Applicable rules of the National Electrical Code apply as a minimum standard for this contract, but do not replace or reduce any specific requirement herein.

1.3 LAWS, PERMITS AND FEES

A. The entire electrical work shall comply with the rules and regulations of the State, including the State Fire Marshal and State Board of Health, whether so shown on plans or not.

1.4 PRIOR APPROVALS

A. The Contractor shall base his proposal on materials as specified herein. Any references to a specific manufacturer or trade name is made to establish a standard of quality and to define a type of product and in no way is intended to indicate a preference for a particular manufacturer. It is the intent of these specifications to allow all manufacturers of equipment, products, etc., judged equal to the specified product to bid on a competitive basis.

1.5 MEASUREMENTS

A. The Contractor shall verify all measurements and shall be responsible for the correctness of same, before ordering any materials or doing any work. No extra charge or compensation will be allowed for any differences between the actual measurements and those indicated on the drawings.

PART 2.0 PRODUCTS

2.1 RACEWAYS AND FITTINGS

A. Raceways permitted on this project shall be hot dipped galvanized rigid steel conduit; electrical metallic tubing (EMT); flexible metallic tubing; and liquid-tight flexible metal conduit. All conduits shall be new and shall bear the inspection label of the Underwriter's Laboratories, Inc. Metallic conduit shall be metalized. Non-metallic conduit shall be schedule 40 PVC.

B. Fittings for conduit shall be an approved type specially designed and manufactured for their purpose. EMT fittings shall be water tight, compression type. Setscrew connector fittings shall not be permitted.

C. Galvanized conduit furnished in accordance with these specifications shall be of mild steel piping, galvanized inside and outside, and shall conform in all respects to the American Standard Association rigid Steel Conduit Specification C80.1-1959 and Underwriter's Laboratories Specifications.

2.2 OUTLET AND SWITCH BOXES

A. Outlet boxes in concealed conduit systems shall be flush mounted. Boxes shall be galvanized steel of sufficient size to accommodate devices shown and shall have raised covers where required to meet requirements of NEC Article 314. All boxes shall be stamped, one piece, galvanized steel, of proper size and shape for conduits entering them, and shall be UL listed and NEC approved for the intended use.

B. Boxes for lighting fixtures shall be 4 inches octagon, not less than 1-1/2 inches deep, with fixtures stud fastened through from back box. Outlet boxes for switches in concealed work shall be standard switch boxes of required number of gangs. Outlet boxes for receptacles, telephone, and communication use in concealed work shall be 4 inch square, not less than 1-1/2 inches deep.

C. Boxes are not to be installed back to back in walls. Do not use long, extended boxes that would effectively couple light and sound between adjoining spaces.

2.3 WIRE (600 VOLT AND BELOW)

A. All conductors used in the work shall be of soft drawn annealed copper having a conductivity of not less than 98% of that of pure copper. Conductors shall be standard code gauge in size, insulated and shall have insulation rated for use at 600 volts. Unless noted otherwise or specified, insulation shall be type MC, THW, THWN, or THHN for sizes up to and including No. 2 AWG. Insulation for wire sizes larger than No. 2 AWG shall be type THW, XHHW, or THHN. Lighting fixture wire shall be heat resistant type TF (150°C) with 300-volt insulation minimum. Wires shall be of the single conductor type. Sizes No. 8 AWG and larger shall be stranded. Sizes No. 12 thru No. 14 shall be single strand solid copper.

B. Throughout the system, all conductors shall be identified as to the phase and voltage of the system by color-coding in accordance with NEC 210.5. Color-coding shall be continuous the full length of the wire with surface printing at regular intervals on all conductors and for neutral conductors.

2.4 CIRCUIT BREAKER PANELBOARDS

A. Panelboards shall be sized as shown on the drawings and schedules, and shall be the bolted breaker panelboard type. Panelboards shall have door-in-door trim. All panelboard bussing shall be copper. Load centers are not acceptable.

B. Panelboard shall be dead front safety type with main breaker or main lugs, as required by Code. Panelboards shall have single, feed through, or double lugs to accommodate feeder conductors. Panelboards with neutrals shall have a neutral buss and a neutral bar insulated from the enclosure for terminating feeder and branch circuit neutral conductors. Each panelboard shall have an equipment grounding bar connected to the cabinet for terminating feeder and branch circuit ground conductors.

C. All breakers shall be bolt on type. Panelboards for 120/208 volt service shall be GE type NLAB, Square D type NQOD, Siemens type CDP_7, Eaton POW-R-LINE series, or equal. Panelboards for 277/480 volt service shall be Square D type NEHB, Siemens type Sentron, Eaton POW-R-LINE series, or equal.

D. Replacement breakers to be installed in existing panels shall be fully compatible with the existing panel and shall be sized as shown on the Drawings. Breakers shall be bolt-on breaker type to match existing breakers or plug-on breaker type if plug-on breakers are utilized in the panel. If both bolt-on and plug-on breakers exist in the panel, bolt-on breakers shall be installed.

2.5 SAFETY SWITCHES

A. Furnish and install safety switches as shown on the Drawings. All switches shall be fused NEMA Heavy Duty Type HD and Underwriter's Laboratories listed. All switches shall have blades that are fully visible in the "OFF" position with the door open. Switches shall be dead-front construction with permanently attached arc suppressers. Lugs shall be UL listed for copper and aluminum conductor and front removable. All current carrying parts shall be plated to resist corrosion. Switches shall be quick-make, quick-break type. During operation of the switch, the movable contacts shall not be able to be restrained by the handle once the closing or the opening action of the contacts has been initiated. Switches shall have cover interlocks to prevent opening of the switch door while the switch is in the "ON" position or closing the switch with the door open. Switch shall have padlocking capabilities in the "OFF" position.

B. Safety switches shall be rated 600 volts for 480 volt service and rated 240 volts for 208 volt service. Switches shall be motor rated when used for motor loads. Switches shall be NEMA 1 enclosed for indoor applications and NEMA 3R for outdoor or wet area locations.

C. Safety switches shall be Square D Heavy Duty Class 3110 type, Eaton Heavy Duty type, Siemens Heavy Duty Vacu-Break type, or prior approved equal.

2.6 WIRING DEVICES

A. Unless otherwise specified, all outlets including voice/data outlets shall be fitted with cover plates. Cover plates shall be standard size, uniform in design and finish for switches, receptacles and other outlets requiring cover plates.

B. Wiring devices shall be as listed. The color of device shall match color of outlet cover plate. It shall be the responsibility of the Contractor to provide plugs, receptacles, and fittings required for any equipment furnished or installed or connected under the contract. Color shall be white unless otherwise directed by the Owner.

	Leviton	P&S	Hubbell
Toggle Switches: 20A, 120/277V			
Single pole	1221-I	20AC1-I	1221-I
Three-way	1223-I	20AC3-I	1223-I
Duplex Receptacle: 20A, 125V, NEMA 5-20R	5362-I	5362-I	5363-I
Ground Fault Circuit Interrupter: 20A, 125V, Feed Through, NEMA 5-20R	6899-I	2091-S	GF-5362-I

C. Quad receptacles shall be 20 amp, 125 volt rated, NEMA 5-20R, with two (2) duplex receptacles or single four-plex device.

D. Weatherproof receptacles shall be GFCI duplex receptacles as specified under WIRING DEVICES, mounted in cast iron type FD conduit box and fitted with gasketed metal cover with spring. Weatherproof receptacles shall be flush mounted in exterior walls.

2.7 VOICE & DATA STATION CABLES

A. Voice and data station wiring shall be Category 6 enhanced (Cat 6e) communications wire and cable. Station Cable shall be four-pair, unshielded, twisted pair, inside station cable, and shall be constructed of solid 24 gauge annealed copper. Each conductor shall be insulated with a continuous layer of fluorinated ethylene propylene (FEP). The sheath shall be all weather, flame resistant, polyvinyl chloride. Station wire shall be constructed of 4 twisted pair sharing one sheath. Cable shall have Category 6e transmission characteristics as specified by ANSI/EIA/TIQA-568-B2.1. Cables routed in air plenum shall have a sheath and conductor insulation constructed of material so as to be classified as type CMP as defined by the NEC 800-3(b)(3). Voice cable shall be GRAY. Data station cables shall be BLUE.

2.8 LED LIGHTING

A. Lighting fixtures with LED light sources shall meet the following fixture and light source requirements
1. LED Color Temperature - Cool White (CW), 4000K nom., CRI > 70
2. Line Voltage - Universal Voltage 120-277 volts
3. Governmental Standards - LM79 and LM80 Compliant
4. Expected Lamp Life - LED Life Rating (L70 B10) to be 60,000 hours to 100,000 hours; Defined as time of operation (in hours) to 30% lumen depreciation (i.e. 70% lumen maintenance), derived from Luminaire in-situ temperature measurement testing (i.e. LED chip package temperature (TS) measurement obtained with the LED chip package operating in given luminaire and in a given stabilized ambient environment) under UL1598 environments and directly correlated to LED package manufacturers IESNA LM-80-08 data. Predicted (L70 B10) Limits (@ 25°C luminaire ambient operating environment): Greater than 60,000 hours @ 350mA Drive Current
5. Driver - Components must be fully encased in potting material for moisture resistance, and must comply with IEC and FCC standards
6. Surge Protection - Surge protection must be provided including separate sure protection built into electronic driver
7. Mechanical - Luminaire LED system components to be low copper aluminum, with high performance heat sink(s) designed specifically for LED luminaires. No active cooling features (Fans, etc.). Luminaire configuration must allow for modular upgradability and/or field repair of all electrical components (i.e. LED modules, Driver(s), etc.). Drivers and vertical light bars must be all mounted to a twist-lock tool-less assembly for ease of installation and trouble- shooting.
8. Drivers shall be provided with a minimum warranty of 5 years.

2.9 OCCUPANCY SENSORS

RESERVED

2.10 SURGE PROTECTION DEVICES FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS

A. Transient voltage surge suppression (TVSS) shall be in accordance with the following standards:
1. Underwriters Laboratory (UL)
2. American National Standards Institute (ANSI)
3. Institute of Electrical and Electronics Engineers (IEEE)
4. National Electrical Manufacturers Association (NEMA)
5. National Fire Protection Association (NFPA)
6. Occupational Safety and Health Act (OSHA)
7. Federal Information Processing Standards, Pub 94 (FIPS)
8. ANSI/IEEE C62.41, Recommended Practice for Surge Voltages in Low-Voltage
9. C Power Circuits, Category C
10. ANSI/IEEE C62.45, Guide on Surge Testing for Equipment Connected to Low-Voltage AC Power Circuits.
11. UL 1449, Current Edition - Transient Voltage Surge Suppressors
12. NEMA LS-1 (1992), Low Voltage Surge Protective Devices
13. NEC Article 285 Manufacturers meeting these requirements will be accepted. Submittal information must include Test Reports from a NRTL (R&B Labs preferred) showing single impulse testing matching label rating, including fuses, UL documents showing SVR ratings and symmetrical fault current withstand ratings, and NRTL report showing the device capable of surviving a minimum of 5,000 impulses using 10x1000s waveform.

B. **Electrical Requirements:**
1. System voltage shall be as indicated on drawings.
2. The TVSS shall be UL Tested and labeled as a complete assembly to a symmetrical fault current rating greater than or equal to the rating of the connected panel, in accordance with NEC Article 285, without the requirement of a dedicated breaker feeder to obtain the fault current withstand rating.
3. The Voltage Protection Rating (VPR) shall be tested with the integral disconnect in accordance with UL-1449, Third Edition. The UL VPR values shall not exceed the following (including disconnect). If the device is remote mounted it shall be fed by a circuit breaker and the UL VPR rating shall include the breaker in series with the TVSS.
   VPR Values Wye Module:
   120/208 volt L-N 700, N-G 700, L-G 700
   277/480 volt L-N 1500, N-G 1500, L-G 1500
4. Protection and Filtering Elements The TVSS shall have a maximum surge current rating of:
   Service Entrance 300kA per mode
   Distribution Panel 200kA per mode
   Branch Panel 100kA per mode
5. Devices that derive a maximum surge current rating by adding test results of individual components are not acceptable. Systems using selenium, gas tubes or silicon avalanche diodes in surge current path are not acceptable. The Maximum Continuous Operating Voltage (MCOV) for all voltage configurations shall be 115% of nominal or greater.
6. Standard Monitoring features:
   i. Operational status indicating lights.
   ii. Audible alarm and alarm indicating light and test switch.
   iii. Dry contacts for remote monitoring purposes.
   iv. Transient voltage surge counter.
7. Equipment Mounting
   a. Switchboard & Distribution Panel TVSS The TVSS device shall include an integral disconnect switch which has been tested to the surge current rating of the TVSS and match or exceed the fault current rating of the board per NEC 285. The Disconnect must switch the phases and neutral. Use of circuit breakers for disconnect mean is not acceptable due to impedance and the requirement for neutral disconnect. The TVSS shall be externally mounted next to the switchboard or distribution panel. The TVSS device shall be externally mounted next to the panel.
   b. Branch panel TVSS The TVSS device shall be externally mounted next to the panel.

2.11 GENERATOR

RESERVED

2.12 AUTOMATIC TRANSFER SWITCH

RESERVED

PART 3.0 EXECUTION

3.1 WIRING - GENERAL

A. Unless otherwise specified, all wiring shall be installed in conduit. No wire shall be smaller than No. 12 unless noted otherwise. Wire for each branch circuit shall be of single size and type from the branch circuit protective device the last outlet of the circuit. BX wiring shall not be allowed.

3.2 CONDUIT - MATERIALS AND METHODS

A. Conduit shall be installed as per NEC and NEMA regulations and the manufacturer's recommendations. Electrical Metallic Tubing shall be used for feeders, branch circuit and communications and control wiring. In places where EMT is permitted, 1/2" through 2" sizes shall be the only sizes permitted. Fittings for EMT shall be the compression ring type fittings. Communications wiring may be installed without conduits above accessible ceilings.

B. Flexible metallic conduit or liquid-tight flexible metal conduit shall be used for the final connection of runs to motors. Flexible conduit shall be at least twelve (12) inches long, but not more than forty-eight (48) inches long. Where used, an external grounding conductor shall be run with conduit unless conductor is made as a part of the conduit.

C. Rigid Steel Conduit shall be used for all conduits exposed to the weather, and underground conduit except where non-metallic conduit is specified or approved. Underground and under slab runs are to be watertight. All horizontal runs of underground conduit shall utilize rigid steel elbows on vertical risers. Conduits used for receptacles and run under the building slab shall be hot dipped galvanized rigid steel and shall be 3/4" minimum size.

3.3 MOUNTING HEIGHTS

A. Unless otherwise noted on the drawings or required by the Architect, the following mounting heights shall apply: Toggle Switches - 4'-0"; Receptacles - 1'-6"; Communication Outlets - 1'-6" (48" for wall phone); Panelboards - 6'-0" to top; Safety Switches - 5'-0" to top; Motor Control Equipment - 5'-0" to top; Wiring Devices above counters - 0'-6" above counter top

3.4 COMMUNICATIONS WIRING INSTALLATION

A. Unless otherwise specified, all communications systems shall be permanently installed and connected to the wiring system. The systems must be installed according to manufacturer standards and recommendations. Wiring installation shall be tested after completion of installation. Test results and as-built documents will be provided to architect in both hard copy and electronic copy, furnished on a CD.

B. Wiring map/as built documents showing voice and data outlets, device numbers, room locations, and termination locations will be displayed in each wiring closet.

C. Wireless drop wiring shall be punched down on a separate punch down block at the end of the data punch down blocks. The wireless punch down block shall be a different color.

D. Voice and data wiring routed above accessible ceilings shall be supported on J-hooks, and shall be loose bundled using Velcro wraps.Voice and data wire bundles shall not include power wiring or wiring for other low voltage systems (fire alarm, intercom, security, CCTV, etc.).

E. COMMUNICATIONS SYSTEM CABLES ROUTED EXPOSED ABOVE CEILINGS SHALL BE PLENUM RATED.

3.5 LIGHTING INSTALLATION

A. Unless otherwise specified, lighting fixtures shall be permanently installed and connected to the wiring system. The Contractor shall support each fixture, independently from the building structure. Ceiling framing members shall not be used to support fixtures except in specified areas where ceiling supports for this purpose have been specified elsewhere in these specifications. Each fixture shall have at least two fixture supports. Flexible conduit used for fixture whips shall be at least twelve (12) inches, but not more than 48 inches long.

3.6 OVERCURRENT PROTECTIVE DEVICE SHORT-CIRCUIT STUDY

A. Studies shall use computer programs that are distributed nationally and are in wide use. Software algorithms shall comply with requirements of standards and guides specified in this Section. Manual calculations are unacceptable. Computer software developers shall comply with IEEE 399 and IEEE 551 and software shall be capable of plotting and diagramming time-current-characteristic curves as part of its output.

3.7 OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY

A. Studies shall use computer programs that are distributed nationally and are in wide use. Software algorithms shall comply with requirements of standards and guides specified in this Section. Manual calculations are unacceptable. Computer software developers shall comply with IEEE 242 and IEEE 399 and software shall be capable of plotting and diagramming time-current-characteristic curves as part of its output. Computer software shall report device settings and raitings of all overcurrent protective devices and shall demonstrate selective coordination by computer-generated, time-current coordination plots.

3.8 OVERCURRENT PROTECTIVE DEVICE ARC-FLASH STUDY

A. Studies shall use computer programs that are distributed nationally and are in wide use. Software algorithms shall comply with requirements of standards and guides specified in this Section. Manual calculations are unacceptable. Computer software developers shall comply with IEEE 1584 and NFPA 70E.

3.9 FACTORY TESTS

RESERVED

3.10 TRAINING

A. The equipment supplier shall provide training for the facility operating personnel covering operation and maintenance of the equipment provided. The training program shall be not less than 4 hours in duration and the class size shall be limited to 5 persons. Training date shall be coordinated with the facility owner.

3.11 COMPLETION

A. The Contractor shall leave all electrical equipment with proper connections, and in proper working order. He shall test the entire electrical system to show that it is properly installed. Contractor shall leave all panels and switches completely fused or complete with circuit breakers.

3.12 RECORD DRAWINGS

A. The Contractor shall furnish one (1) complete set of drawings on which any changes in the work shall be shown. These drawings must be turned over to the Architect prior to final acceptance of the work.

3.13 GUARANTEE

A. The Contractor shall guarantee to keep the entire electrical system as installed by him or his subcontractors in repair and in perfect working order for one (1) year from the date of the final Certification of Final Acceptance, and shall furnish free of cost to the Owner, all material and labor necessary to comply with the above guarantee; said guarantee shall be based upon defective material and workmanship. In any case where equipment has a factory warranty exceeding this one-year limit, the full extent of the warranty shall apply.

3.14 CLEANING

A. When all work has been finally tested, the Contractor shall clean all fixtures, equipment, conduits, ducts, and all exposed work. All cover plates and other finished products shall be thoroughly cleaned.

3.15 INSTRUCTION MANUALS

A. The Contractor shall provide three (3) operating and maintenance instruction manuals on all systems and equipment installed in the electrical work.

3.16 CONTRACTOR SPECIAL NOTE

A. The Contractor is again cautioned to refer to all parts of these Specifications and all Drawings, not just electrical sections, and the individual cross references made to other standard specifications or details describing any electrical work, which may be required under these other sections. The Contractor is cautioned to note carefully any other sections which may reference electrical work in order for this Contractor to fully understand the wiring requirements and electrical work that is required. Any conflicts found between the electrical sections of these Specifications or Drawings shall be immediately directed to the General Contractor for clarification.

B. These Specifications and the electrical Drawings size equipment, wire, conduit, etc. based on the horsepower of motors and/or wattages of equipment as shown on the plans or specified herein. The Contractor shall install electrical raceways, conductors, fuses, safety switches, breakers, contactors, starters or any other electrical equipment with the capacities to suit the horsepower and/or wattages of the equipment actually furnished and installed. The Contractor shall not furnish or install any electrical raceways, conductors, safety switches, contactors or motor starters of sizes smaller than those shown on the Drawings or specified herein. The Contractor shall coordinate with the various sections of the Specifications and/or Drawings and with the various Sub- Contractors to provide the properly sized equipment without additional cost to the Owner.

C. The Contractor shall be required to install electrical services underground. Existing underground utilities should be disconnected. Refer to the electrical and mechanical drawings for demolition plans. However, some existing underground utilities may remain in service at the site. Contractor is cautioned to exercise extreme care when digging to not damage any existing utilities or equipment. Contractor shall be required to repair any utilities or equipment he may damage during construction

LIGHTING CONTROLS SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

A. The work covered in this section is subject to all of the requirements in the General Conditions of the Specifications. Contractor shall coordinate all of the work in this section with all of the trades covered in other sections of the specification to provide a complete and operable system. Contractor shall include all labor, materials, appliances, tools, equipment, facilities, transportation and services necessary for and incidental to performing all operations in connection with furnishing, delivery and installation of the work of this Section.

1.2 DESCRIPTION OF WORK

A. Furnish and install a complete system for the control of lighting and other equipment as indicated on the plans, detailed in the manufacturer submittal and as further defined herein. Contractor is solely responsible to verify quantity, installation locations and wiring requirements for this project. Specific manufacturers catalog numbers, when listed in this section are for reference only. It is the responsibility of the contractor to verify with lighting control manufacturer all catalog information and specific product acceptability.

B. The system shall include but not be limited by the following list: Pre-wired, microprocessor-controlled relay panels with electrically held, electronically latched relays panels, and Digital Time Clock (DTC).

1.3 SUBMITTALS

A. Shop Drawings: Submit dimensioned drawings of lighting control system and accessories including, but not necessarily limited to, relay panels, switches, digital time clock, and other required devices.

B. Product Data: Submit manufacturer's data on the specific lighting control system and components. Submit a complete bill of materials with part numbers, description and voltage specifications.

C. One Line Diagram: Submit a one-line diagram of the system configuration indicating the type, size and number of conductors between each component if it differs from that illustrated in the riser diagram in these specifications.

1.4 MAINTENANCE MATERIALS

A. Provide 10% spare relays per LCP, up to the maximum capacity of the LCP. Provide CD version of manufacturers operating software to include graphical interface software. Provide 2 extra sets of as-built and operating manuals.

1.5 MANUFACTURERS

A. Subject to compliance with the specified requirements, provide products by one of the following manufacturers:
B. nLight ECLYPSE Wireless
C. Lutron Vive

B. Part numbers listed in these specifications are based on the nLight system and equipment unless noted otherwise. Product part numbers of approved equal manufacturers shall be equal to the listed products described herein.

C. Submit proposed alternates with layouts of controls for prior approval.

PART 2 - PRODUCTS

2.1 MATERIAL AND COMPONENTS

A. System Controller:
1. Communicates over IP for accessing and configuring the system controller and connected lighting controls over local area network (LAN).
2. Supports up to 750 devices. Additional controllers may be connected for support of up to 20,000 devices.
3. Includes time-of-day and astronomical time clock capabilities.
4. Managed via free SensorView, or equal, software and through an onboard web GUI.
5. Minimum five (5) year warranty.
6. Acuity Brands #nECY Series or approved equal.

B. Touchscreen Controls:
1. 7" full-color capacitive touchscreen.
2. Supports customizable groupings of up to 128 switches and scenes.
3. Configurable via CLAIRITY mobile app and SensorView software, or equivalent.
4. Bluetooth 4.0 capable.
5. Minimum five (5) year warranty.
6. Acuity Brands #nTS-7IN series or approved equal.

C. Power/Relay Packs:
1. Utilizes 0-10V Dimming Control.
2. Power for up to four (4) low voltage (24 VDC) sensors or other low voltage devices.
3. Power Monitoring and Current Measurement with +/- 3% accuracy.
4. UL listed for plenum applications.
5. Damp location listed.
6. Acuity Brands #rPP20 or approved equal.

D. Ceiling Mounted Sensors:
1. Digital PIR detection for occupancy detection.
2. Integrated, dimming photocell standard to provide automatic dimming control between minimum and maximum trim levels.
3. LED status indicator.
4. Adjustable settings via mobile app or software application.
5. Low voltage 24 VDC.
6. Acuity Brands #rCMS series or approved equal.

A. Wireless Line Powered Wall Switches:
1. Wireless communication to lighting fixtures and other devices via radio frequency (RF) in the 900 MHz spectrum.
2. Remotely configurable.
3. Requires 120-277 VAC line power. Battery powered switches will not be permitted.
4. Finish shall be determined by the Architect.
5. Acuity Brands #RPODLA series or approved equal.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Mount relay control cabinets adjacent to respective panelboard. Cabinet shall be surface mount, NEMA 1. Wiring between relay control cabinet and panelboards to be installed per local codes and acceptable industry standards. Under no circumstances will any extra be authorized for payment to the EC or GC due to the EC's lack of knowledge or understanding of any and all prevailing codes or specified manufacturer's installation requirements. Neatly lace and rack wiring in cabinets. During construction process, protect all interior components of each relay panel and each digital switch from dust and debris. Any damage done to electronic components due to non-protection shall be the sole responsibility of the installing contractor.

B. Wiring:
1. Do not mix low voltage and high voltage conductors in the same conduit. No exceptions.
2. Ensure low voltage conduits or control wires do not run parallel to current carrying conduits.
3. Place manufacturer supplied "terminators" at each end of the system bus per manufacturers instructions.
4. Neatly lace and rack wiring in cabinets.
5. The electrical contractor shall install the lighting control system. The EC shall make all necessary wiring connections to external devices and equipment, including photocell and occupancy sensors. EC shall wire the system in accordance with manufacturer's instructions.

3.2 INSTALLATION AND START-UP

A. Verify that conduit for line voltage wires enters panel in line voltage areas and conduit for low-voltage control wires enters panel on low-voltage areas. Refer to manufacturer's plans and approved shop drawings for location of line and low-voltage areas. It is the responsibility of the contractor to verify with lighting control manufacturer all catalog information and specific product acceptability.

B. Contractor to test all low voltage cable for integrity and proper operation prior to turn over. Verify with system manufacturer all wiring and testing requirements.

C. Before Substantial Completion, arrange and provide a one-day Owner instruction period to designated Owner personnel. Start-up and set-up, commissioning of the lighting control system, and Owner instruction includes:
1. Confirmation of entire system operation and communication to each device.
2. Confirmation of operation of individual relays, switches, occupancy sensors and daylight sensors.
3. Confirmation of system programming, photocell settings, override settings, etc.
4. Provide training to cover installation, maintenance, troubleshooting, programming, and repair and operation of the lighting control system.

D. Before energizing the panelboard, the following steps shall be taken:
1. Retighten connections to the manufacturer's torque specifications. Verify that required connections have been furnished.
2. Remove shipping blocks from component devices and the panel interior.
3. Remove debris from panelboard interior.

E. Provide factory commissioning of the system and provide all control zones, time of day on/off programming, etc. as per the Owner's needs. Provide all required coordination with the Owner necessary. The Contractor shall include the cost of factory commissioning in bids.

3.3 DOCUMENTATION

A. Each relay shall have an identification label indicating the originating branch circuit number and panelboard name as indicated on the drawings. Each line side branch circuit conductor shall have an identification tag indicating the branch circuit number.

B. Provide a point-to-point wiring diagram for the entire lighting control system. Diagram must indicate exact mounting location of each system device. This accurate "as built" shall indicate the loads controlled by each relay and the identification number for that relay, placement of switches and location of photocell. Original to be given to owner, copies placed inside the door of each LCP.

3.4 TRAINING

A. Provide a factory technician for on-site training of the Owners' representatives and maintenance personnel. Coordinate timing with General Contractor. Provide a minimum of four hours of factory on-site training.

PARISH ENGINEERING
1450 Seaboard Drive
Baton Rouge, LA 70810
225.332.0222
parisheng.com | #25-134

project no. 25-1130-0027
drawn HJM
checked SPG
date 12/16/25
revised

STATE OF LOUISIANA
12/16/2025

Meyer Engineers, Ltd.
A Thompson Holdings Company
4937 Hearst Street | Suite 1B
Metairie, Louisiana 70001
504.885.9892 (o)
www.meyer-e-l.com

meyer
ENGINEERS + ARCHITECTS

ELECTRICAL SPECIFICATIONS
REGALA PARK TRAIL LIGHTING
REGALA PARK
ST. JOHN THE BAPTIST PARISH, OWNER

sheet no.
E3.0
of ______ sheets