NEW FLEET MANAGEMENT BUILDING

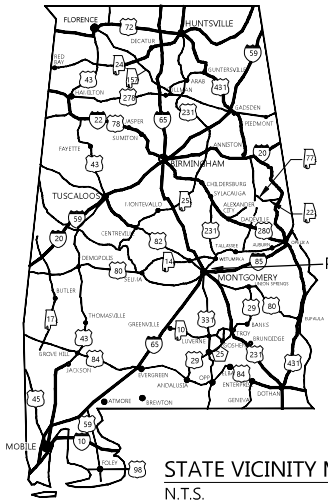
FOR

ALABAMA INDUSTRIAL DEVELOPMENT TRAINING

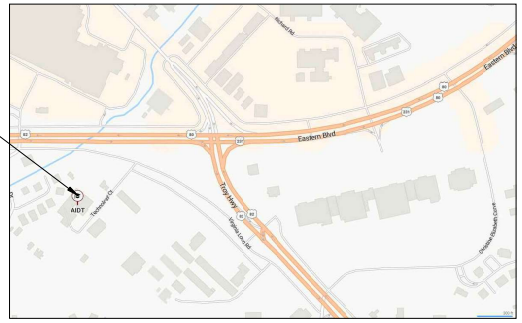
MONTGOMERY, ALABAMA

PH&J architects inc.	ARCHITECT
LARRY E. SPEAKS AND ASSOC., INC.	CIVIL ENGINEER
BLACKBURN, DANIELS, O'BARR, INC.	STRUCTURAL ENGINEER
ZGOUVAS, ERING AND ASSOC.	MECHANICAL ENGINEER
GUNN & ASSOCIATES, P.C.	ELECTRICAL ENGINEER

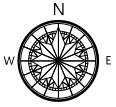
INDEX OF DRAWINGS



STATE VICINITY MAP
N.T.S.



LOCAL VICINITY MAP
N.T.S.



PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

REGISTERED ARCHITECTS
STATE of ALABAMA
P. T. ADDISON 4564
H. G. GANDY 3928
R. O. JONES III 4503

DRAWN HW | CHECK HW/HG
DATE NOVEMBER 20, 2025 RTA
REVISED
REVISED
SHEET TITLE
INDEX to DRAWINGS and VICINITY MAPS
JOB NO. PH&J #2502-CUA DCM #2025417
SEQUENCE NO. 1 OF 41

T-1

PROJECT NAME AND JOB NUMBERS

ELECTRICAL LEGEND

CEILING OUTLETS

- A (2) — RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A (2) — RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- A — RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A — RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- FS 2 — SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
- FS 2 — SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- RECESSED OR SURFACE MOUNT DOWNLIGHT
- RECESSED OR SURFACE MOUNT DOWNLIGHT "EMERGENCY POWER"
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE
- J — JUNCTION BOX
- EXIT LIGHT
- EF — EXHAUST FAN
- J — CEILING MOUNTED OUTLET. NEMA 5-20R IN SINGLE GANG BOX SUSPENDED FROM CEILING USING TYPE "SO" CORD (2#10 WITH GROUND) AND KELLEMS GRIP AT BOTH ENDS. SUSPEND FROM STRUCTURE SUCH THAT RECEPTACLE IS 6 FEET FROM FINISHED FLOOR.

WALL OUTLETS

1. ALL 120V RECEPTACLES ON THIS PROJECT SHALL BE TAMPER PROOF TYPE PER THE NATIONAL ELECTRIC CODE.

- WALL MOUNTED COMBO EXIT LIGHT/EMERGENCY
- WALL MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE "EMERGENCY POWER"
- BATTERY OPERATED EMERGENCY WALL PACK
- DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- G — DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- W — DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF BOX FOR RECEPTACLE; OUTLET BOX HOODS SHALL BE IDENTIFIED AS "EXTRA-DUTY"
- DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- G — DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- G — QUADRAPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- QUADRAPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 3 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN
- J — JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- P — PHOTOCELL; TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GRADE
- RUN CONCEALED IN CEILING OR WALLS
- LA-1 — HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND – 3/4" C; –#– 3 #12, 1 #12 GROUND – 3/4" C; –#– 4 #12, 1 #12 GROUND – 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- LA-1 — 10 — HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND – 3/4" C; –10#– 3 #10, 1 #10 GROUND – 3/4" C; –10#– 4 #10, 1 #10 GROUND – 1" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- LA-1 — 8 — HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND – 1" C; –8#– 3 #8, 1 #10 GROUND – 3/4" C; –8#– 4 #8, 1 #10 GROUND – 1 1/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- 6 — WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN. THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 – NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250-95 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES

TELEPHONE & TELEVISION SYSTEMS

- WALL COMMUNICATIONS OUTLET – SEE DETAILS ON SHEET E6.1
- WIRELESS ACCESS POINT – SEE DETAILS ON SHEET E6.1
- CCTV — SECURITY CAMERA – SEE DETAILS ON SHEET E6.1
- COMMUNICATIONS FLOOR RACK SEE DETAIL E4.1

MISCELLANEOUS EQUIPMENT

- C — CONTACTOR
- EXTERIOR POLE LIGHT
- WH — WATER HEATER
- MON — SCREEN MONITOR

LIGHTING CONTROLS

- OS — CEILING MOUNTED OCCUPANCY SENSOR
- PP — POWER PACK FOR OCCUPANCY SENSOR
- L1 — ROOM CONTROLLER – 1 ZONE DIMMING
- L2 — ROOM CONTROLLER – 2 ZONE DIMMING
- LE — ROOM CONTROLLER – EMERGENCY LIGHTING UL924 DEVICE
- RC — ROOM CONTROLLER – ON/OFF NO DIMMING
- D1 — WALL DIMMER – ON/OFF & 0-10V 1-ZONE DIMMING
- D2 — WALL DIMMER – ON/OFF & 0-10V 2-ZONE DIMMING
- S_L — LOW VOLTAGE SWITCH, 2-BUTTON
- S_{LX} — LOW VOLTAGE SWITCH CONNECTED TO LIGHITNG CONTROL PANEL, 2-BUTTON
- S_{OS} — OCCUPANCY SENSOR WALL SWITCH, ULTRASONIC TECHNOLOGY, 1-BUTTON SIMILAR TO HUBBELL LIGHT HAWK 2

*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- S — A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
- S_3 — A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
- S_M — MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 20 AMP, 120/277 VOLT
- 30/1 S_M — MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 30 AMP, 120/277 VOLT
- S_T — PRESET INTERVAL TIMER SWITCH, HUBBELL TD-300 SERIES OR EQUALS
- PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHERS, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED
Kenneth R. Gunn
NO. 26084
PROFESSIONAL
11-20-2025
ENGINEER
KENNETH RAY GUNN JR.

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GA#25495

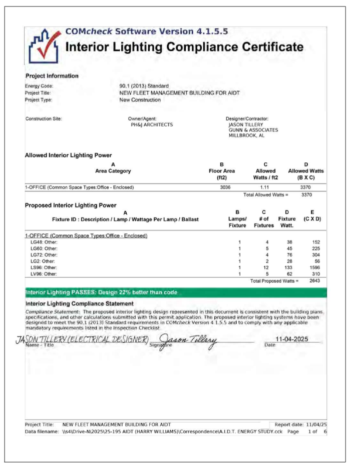
DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	ELECTRICAL LEGEND & NOTES
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	26 OF 41

E0.1

PROJECT NAME AND JOB NUMBERS

MISCELLANEOUS

A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CL	CENTER LINE
CWP	COLD WATER PIPE
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID METAL CONDUIT
GRD	GROUND
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MT	MOUNT
N	NEUTRAL
NIC	NOT IN CONTRACT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
P	POLE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	PVC (POLYVINYL CHLORIDE) CONDUIT
SLD	SINGLE LINE DIAGRAM
TBB	TELEPHONE BACKBOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSORS
UL	UNDERWRITER'S LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTAGE
W	WIRE
WP	WEATHERPROOF
#	NUMBER
3R	NEMA 3R WEATHERPROOF ENCLOSURE
4X	NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE


COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: NEW FLEET MANAGEMENT BUILDING FOR AIDT
Project Type: New Construction

Construction Site:
Owner/Agent: PH&J ARCHITECTS
Designer/Contractor: JASON TILLERY, GUNN & ASSOCIATES, MILLBROOK, AL

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-OFFICE (Common Space Types:Office - Enclosed)	3036	1.11	3370
		Total Allowed Watts =	3370

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-OFFICE (Common Space Types:Office - Enclosed)				
LG48: Other:	1	4	38	152
LG60: Other:	1	5	45	225
LG72: Other:	1	4	76	304
LG2: Other:	1	2	28	56
LS96: Other:	1	12	133	1596
LV96: Other:	1	5	62	310
			Total Proposed Watts =	2643

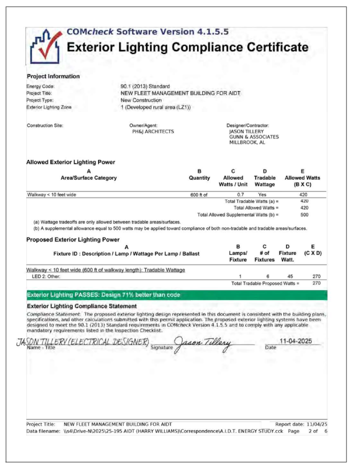
Interior Lighting PASSES: Design 22% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

JASON TILLERY (ELECTRICAL DESIGNER) — Name - Title; Signature: Jason Tillery; Date: 11-04-2025

Project Title: NEW FLEET MANAGEMENT BUILDING FOR AIDT — Report date: 11/04/25
Data filename: \\s4\Drive-N\2025\25-195 AIDT (HARRY WILLIAMS)\Correspondence\A.I.D.T. ENERGY STUDY.cck — Page 1 of 6


COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: NEW FLEET MANAGEMENT BUILDING FOR AIDT
Project Type: New Construction
Exterior Lighting Zone: 1 (Developed rural area (LZ1))

Construction Site:
Owner/Agent: PH&J ARCHITECTS
Designer/Contractor: JASON TILLERY, GUNN & ASSOCIATES, MILLBROOK, AL

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Walkway < 10 feet wide	600 ft of	0.7	Yes	420
			Total Tradable Watts (a) =	420
			Total Allowed Watts =	420
			Total Allowed Supplemental Watts (b) =	500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Walkway < 10 feet wide (600 ft of walkway length): Tradable Wattage				
LED 2: Other:	1	6	45	270
			Total Tradable Proposed Watts =	270

Exterior Lighting PASSES: Design 71% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

JASON TILLERY (ELECTRICAL DESIGNER) — Name - Title; Signature: Jason Tillery; Date: 11-04-2025

Project Title: NEW FLEET MANAGEMENT BUILDING FOR AIDT — Report date: 11/04/25
Data filename: \\s4\Drive-N\2025\25-195 AIDT (HARRY WILLIAMS)\Correspondence\A.I.D.T. ENERGY STUDY.cck — Page 2 of 6

GENERAL ELECTRICAL NOTES:

1. THE SERVICE VOLTAGE TO THE FACILITY IS 120/208 VOLT, 3 PHASE, 4 WIRE.
2. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
4. COORDINATE ROUGH-IN OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. AVOID ALL BACKSPLASHES AT COUNTERS.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD, AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
6. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
7. THE LOCATION OF OUTLETS, FIXTURES, AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE, OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
8. COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
9. ALL CONDUIT SIZE SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.
10. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS AND POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
11. ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
12. ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRC. EMT WILL NOT BE ACCEPTED.
13. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPBOARD CEILING.
14. ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A PULL WIRES.
15. PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
16. INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
17. PROVIDE A CONDUIT EXPANSION JOINTS WITH BONDING JUMPER IN ALL CONDUITS CROSSING AN EXPANSION JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
18. ALL UNDERGROUND CONDUITS RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
19. ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENINGS SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK ARE INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS FINISHED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
21. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY EXISTING FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE. CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME, HOLIDAY, AND WEEKEND PAY TO THEIR EMPLOYEES TO DO THIS WORK DURING SCHEDULED NON-NORMAL WORK HOURS.
22. BUILDING OWNER MUST RECEIVE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTIONS ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM.
23. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER PACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
24. ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
25. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC, WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.

Gunn & Associates, P.C.
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Tel: 334.285.1273
GA#25-195

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

PH&J architects inc.
Montgomery, Alabama

ALABAMA REGISTERED PROFESSIONAL ENGINEER — KENNETH RAY GUNN JR. — NO. 26088 — 11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	ELECTRICAL LEGEND & NOTES
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	27 OF 41

E0.2

GENERAL NOTES:

1. LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
2. COORDINATE WITH POWER RISER DIAGRAMS FOR FEEDER AND CONDUIT SIZES AND ALL OTHER ADDITIONAL REQUIREMENTS NOT SHOWN ON SITE PLAN.
3. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
4. ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
5. CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING AND EXITING COMMUNICATIONS HAND HOLES AND BACKBOARDS.
6. SEE SHEET E1.2 FOR TYPICAL TRENCH/DUCT DETAILS FOR ALL SURFACES. WORK SHALL COMPLY WITH DETAILS.
7. SEE SHEET COMMUNCIATIONS RISER DIAGRAMS ON SHEET E6.2 FOR ADDITIONAL REQUIREMENTS.

SHEET NOTES:

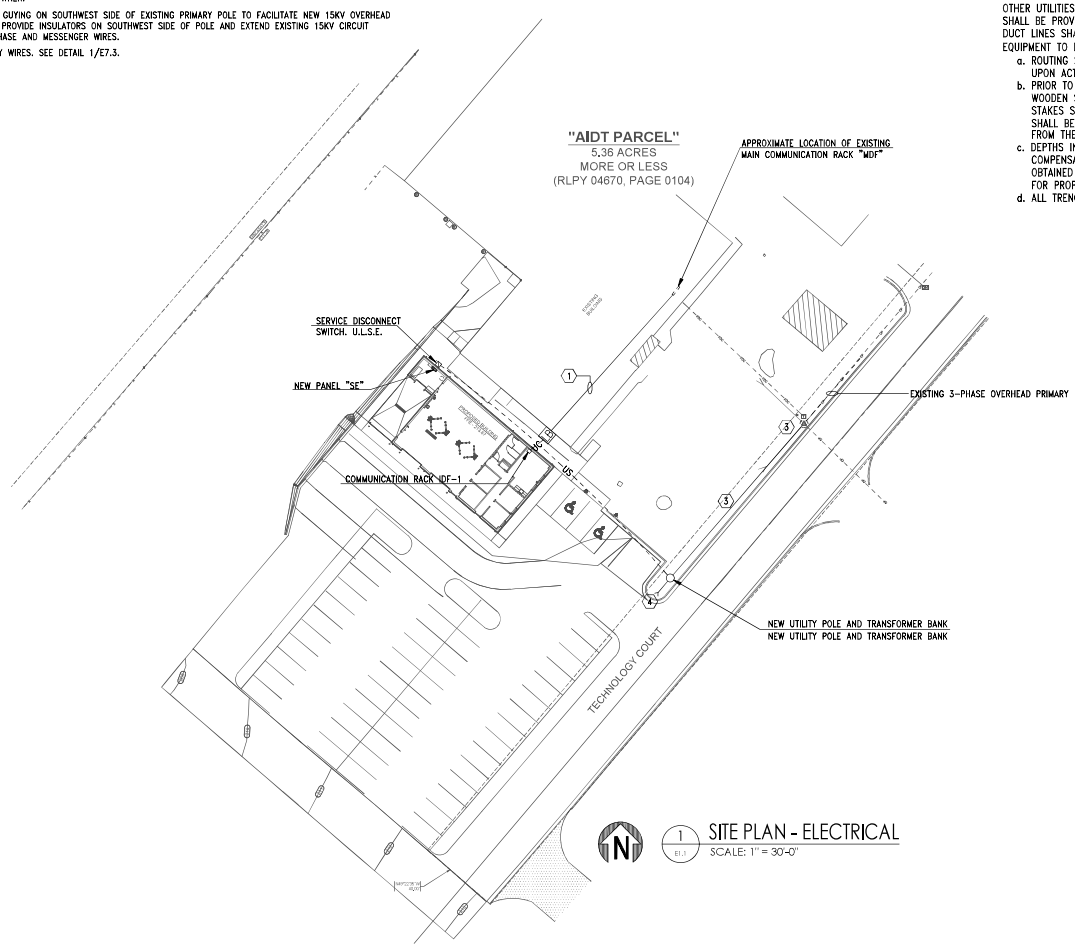
1. CONTRACTOR SHALL PROVIDE ONE 2" CONDUIT FROM NEW RACK TO EXISTING BUILDING AND THEN LB INTO EXISTING BUILDING AND EXTEND CONDUIT TO EXISTING "MDF" COMMUNICATION'S RACK.
2. CONTRACTOR SHALL REMOVE EXISTING EXTERIOR LIGHTING POLE AND LIGHT. CONTRACTOR SHALL INTERCEPT & EXTEND EXISTING CIRCUIT TO EXISTING FIXTURES TO REMAIN. CONTRACTOR SHALL TURN OVER EXISTING POLE AND LIGHTS TO OWNER.
3. REMOVE EXISTING GUYING ON SOUTHWEST SIDE OF EXISTING PRIMARY POLE TO FACILITATE NEW 15KV OVERHEAD SPAN AND POLE. PROVIDE INSULATORS ON SOUTHWEST SIDE OF POLE AND EXTEND EXISTING 15KV CIRCUIT USING #2ACSR PHASE AND MESSENGER WIRES.
4. PROVIDE NEW GUY WIRES. SEE DETAIL 1/E7.3.

SITE LEGEND

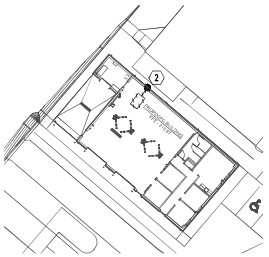
- - -UP- - - UNDERGROUND PRIMARY
- - -US- - - UNDERGROUND SECONDARY
- - -UC- - - UNDERGROUND COMMUNICATIONS

UNDERGROUND UTILITY NOTES:

1. THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
   a. TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
   b. DUCTBANK INSTALLATIONS
   c. LOW VOLTAGE CONDUCTOR INSTALLATION
   d. PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. ALL CLEARANCES SHALL BE MAINTAINED PER NESC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
6. UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
   a. ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
   b. PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
   c. DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
   d. ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.



N 1 E1.1 SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"



N 2 E1.1 PARTIAL SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"

SCALE: 1" = 30'-0"
30' 15' 0 30 60FT
GRAPHIC SCALE

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NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED Kenneth R. Gray NO. 26085 PROFESSIONAL ENGINEER 11-20-2025

DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	SITE PLAN - ELECTRICAL
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	OF 41

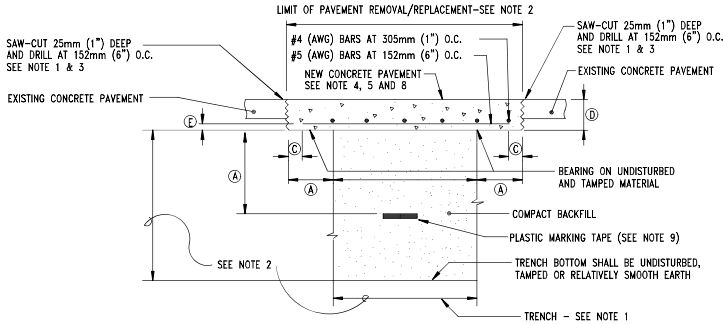
E1.1

PROJECT NAME AND JOB NUMBERS

DIMENSION BLOCK		
REF	SI	ENGLISH
A	305mm	1'-0"
B	152mm	0'-6"
C	51mm	0'-2"
D	203mm	0'-8"
E	76mm	0'-3"

NOTES:

1. TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
2. TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
3. PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
4. CONCRETE SHALL BE CLASS A.
5. MATCH THICKNESS OF EXISTING CONCRETE PAVEMENT 8" (20.32cm) MIN.
6. LEAVE DRILLED FACE OF EXISTING PAVEMENT IRREGULAR TO INSURE KEY TO NEW CONCRETE PAVEMENT.
7. ALL EXISTING JOINTS TO BE RE-ESTABLISHED.
8. REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40. REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE PAVEMENT.
9. PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

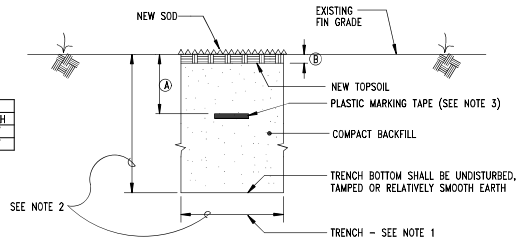


2 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR RIGID PAVEMENT
E1.2 NO SCALE

NOTES:

1. TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR AND INSTALL NEW SOD.
2. TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
3. PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

DIMENSION BLOCK		
REF	SI	ENGLISH
A	305mm	1'-0"
B	51mm	0'-2"

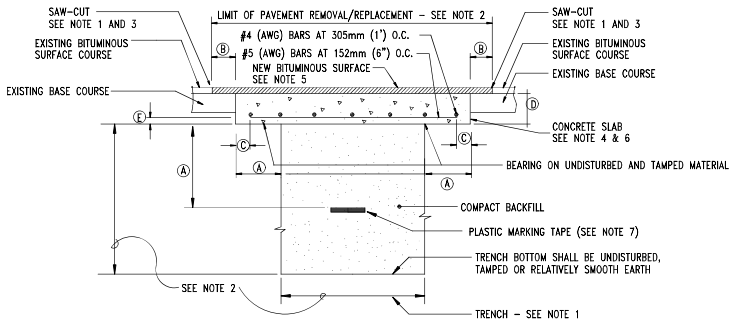


3 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR SODDED AREAS
E1.2 NO SCALE

DIMENSION BLOCK		
REF	SI	ENGLISH
A	305mm	1'-0"
B	152mm	0'-6"
C	51mm	0'-2"
D	203mm	0'-8"
E	76mm	0'-3"

NOTES:

1. TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
2. TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
3. PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
4. CONCRETE SHALL BE CLASS A.
5. MATCH THICKNESS OF EXISTING BITUMINOUS SURFACE, OR 38mm (1.5") MINIMUM, WHICHEVER IS GREATER.
6. REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40. REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE SLAB.
7. PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.



1 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR FLEXIBLE PAVEMENT
E1.2 NO SCALE

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AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED KENNETH RAY GUNN JR. NO. 26088 PROFESSIONAL ENGINEER 11-20-2025

DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	TRENCHING DETAILS & NOTES
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	29 OF 41

E1.2

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PROJECT NAME AND JOB NUMBERS

SHEET NOTES:

1. DUE TO SECURITY CONCERNS THE OWNER DOES NOT WANT CORRIDOR LIGHTS TO TURN OFF DURING CLASS BY OCCUPANCY SENSORS.
2. ROUTE EXTERIOR LIGHTING CIRCUITS THRU CONTACTORS AS SHOWN IN DETAIL 3. "NL' DESIGNATES LIGHTS ARE PHOTOCELL ON/PHOTOCELL OFF. "OL" DESIGNATES PHOTOCELL ON/TIMECLOCK OFF.
3. DUE TO SECURITY CONCERNS THE OWNER DOES NOT WANT SHOP LIGHTS TO TURN OFF DURING USE BY OCCUPANCY SENSORS.

ROOM CONTROLLER NOTES:

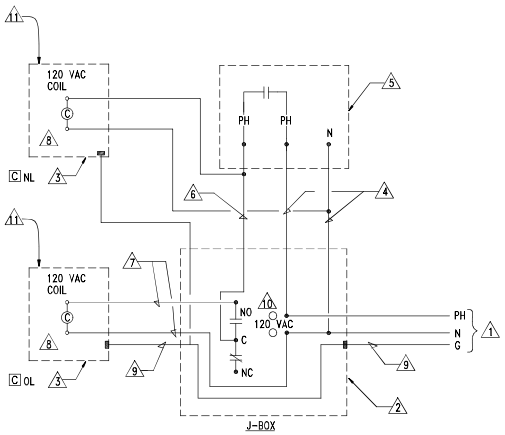
1. CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABLEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

PHOTOCONTROL OF LIGHTING:

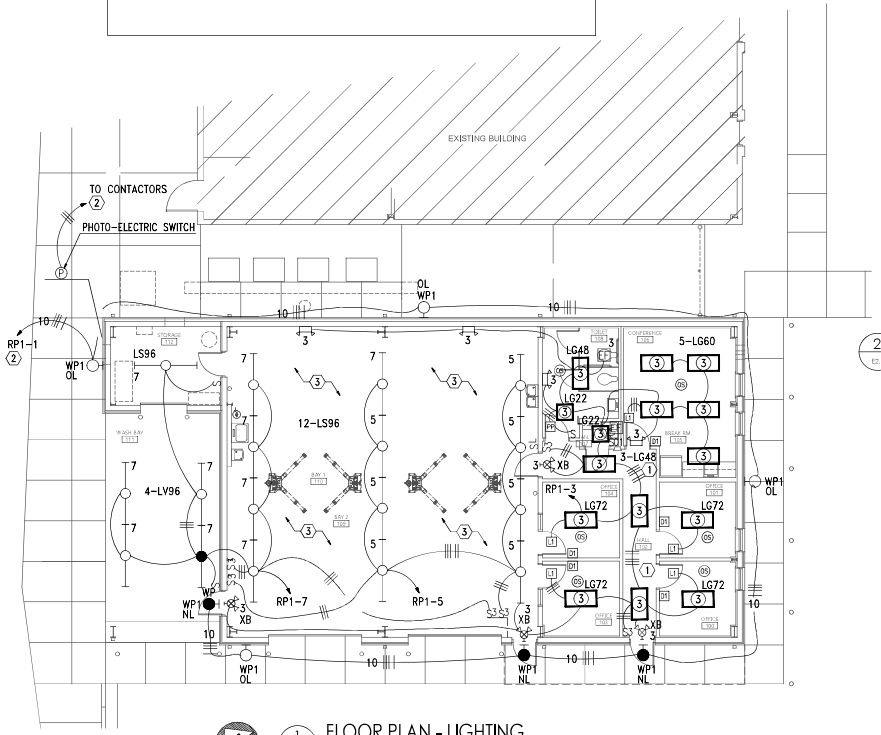
1. PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY SIDELIGHTED AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.

KEYED NOTES

1. POWER SUPPLY – 120V, 1PH, 60HZ
2. TIME SWITCH ENCLOSURE – NEMA 1 UNLESS NOTED OTHERWISE
3. CONTACTOR ENCLOSURE – NEMA 1 UNLESS NOTED OTHERWISE
4. POWER TAP TO PHOTO-CELL IN GRC
5. TURN-LOCK PHOTO-CELL, SEE DETAIL
6. SWITCH LEG RETURN IN GRC
7. POWER TO CONTACTOR COIL
8. LIGHTING CONTACTOR [C]NL & [C]OL AS FOLLOWS:
   - -NEMA ICS 2-211B INDUSTRIAL DUTY TYPE
   - -ELECTRICALLY OPERATED-ELECTRICALLY HELD
   - -RATING AND NUMBER OF POLES INDICATED
   - -CONTACTS SHALL BE SILVER ALLOY, DOUBLE-BREAK, SUITABLE FOR TUNGSTEN, BALLAST LIGHTING, RESISTANCE AND MOTOR LOADS
   - -FUSING FOR CONTROL CIRCUIT
9. GROUND CONDUCTOR – BOND TO EACH ENCLOSURE AND INSTALL IN EACH CONDUIT SYSTEM
10. DIGITAL TIME SWITCH AS FOLLOWS:
    - -ONE CHANNEL WITH 24 HOUR, SEVEN DAY PROGRAMMING AND SKIP-A-DAY FEATURE
    - -INPUT: 120 VAC, 60HZ
    - -OUTPUT: DPST DRY CONTACTS (UNPOWERED)
    - -HEAVY DUTY CONTACTS RATED 20 AMPERE RESISTIVE AT 120 VAC
    - -TEMPERATURE RANGE: -20 TO +60 DEGREES CELSIUS
    - -RELATIVE HUMIDITY: 0 TO 90% RH
    - -CLOCK ACCURACY: ±2 MINUTES PER YEAR
    - -LED INDICATION OF TIME AND LOAD STATUS
    - -FULL WEEK'S RESERVE POWER (BATTERY BACK-UP)
11. PROVIDE NUMBER OF POLES REQUIRED.



2 DETAIL - TYPICAL OPERATION OF TIME SWITCH/PHOTO-CELL/CONTACTOR
E2.1 NO SCALE



1 FLOOR PLAN - LIGHTING
E2.1 SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS FOR OCCUPANCY SENSORS AND THE FOLLOWING:
   a. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
   b. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO A POWER PACK.
   c. IF MULTIPLE CIRCUITS OR DUAL SWITCHING ARE TO BE CONTROLLED BY OCCUPANCY SENSORS, PROVIDE ALL ADDITIONAL AUXILIARY RELAYS AND POWER PACKS AS NEEDED.
5. OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
6. SEE POWER PLANS FOR PANEL LOCATIONS.
7. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
8. CONTRACTOR SHALL PROVIDE DEDICATED NEUTRALS FOR EACH DIMMING CIRCUIT.
9. COORDINATE WITH LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS. SEE SHEETS E2.2 & E2.3 FOR ADDITIONAL REQUIREMENTS.

1/8" = 1'-0"
8' 0 8 16 FT
GRAPHIC SCALE

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Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED Kenneth R. Ray NO. 26085 PROFESSIONAL 11-20-2025 ENGINEER KENNETH RAY GUNN

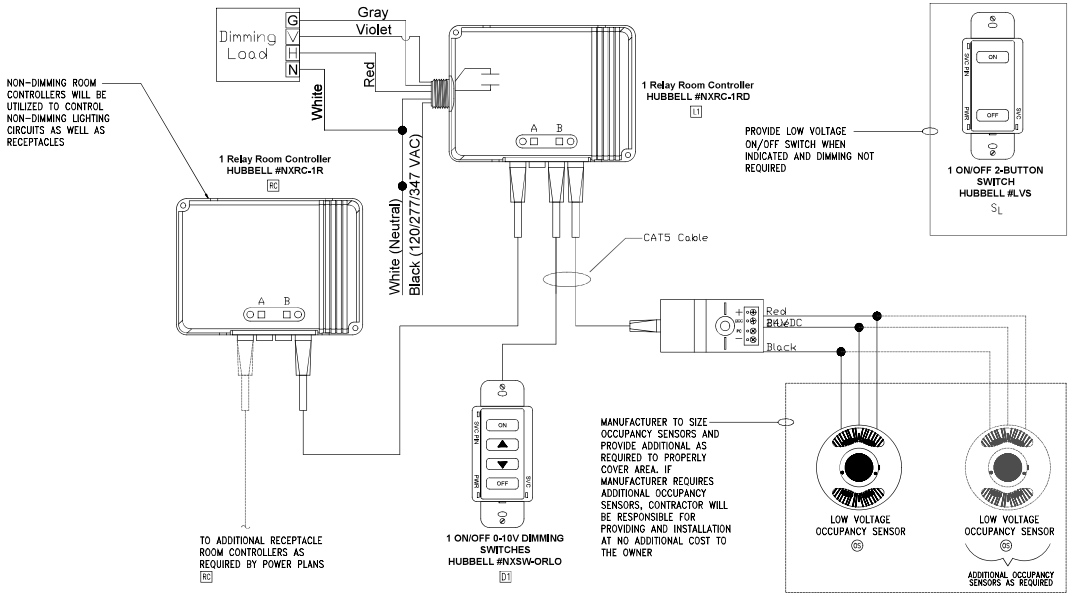
DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	FLOOR PLAN - LIGHTING
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	30 OF 41

E2.1

PROJECT NAME AND JOB NUMBERS

OCCUPANCY SENSOR AND CONTROL NOTES:

1. OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
2. OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
3. ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
4. ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
5. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
6. OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
7. LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHITNG CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
8. WATT STOPPER AND N-LIGHT ARE APPROVED EQUALS.
9. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.



1 E2.2 TYPICAL MULTIPLE OCCUPANCY SENSOR, SINGLE 0-10V DIMMING SYSTEM, AND MULTIPLE ROOM RECEPTACLE CONTROLLER DETAIL

NO SCALE

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ALABAMA REGISTERED KENNETH RAY GUNN NO. 26085 PROFESSIONAL ENGINEER 11-20-2025

DRAWN	J.C.T.
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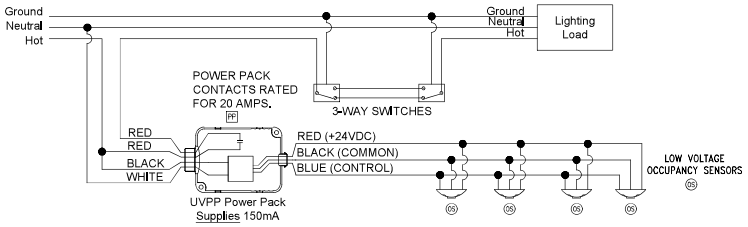
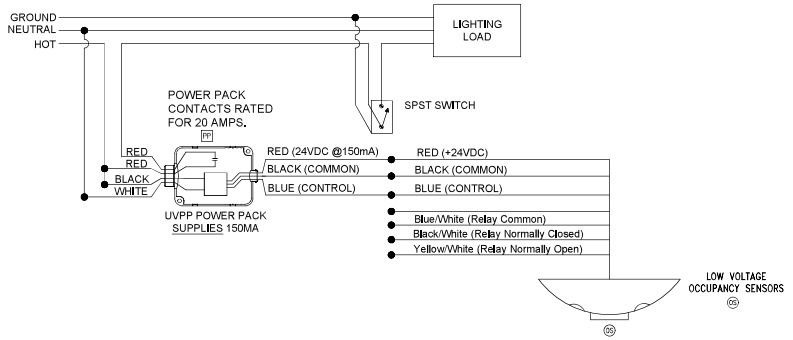
SHEET TITLE	LIGHTING CONTROL DETAILS
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	31 OF 41

E2.2

PROJECT NAME AND JOB NUMBERS



1 E2.3 TYPICAL 3-WAY SWITCHING OCCUPANCY SENSOR WIRING DIAGRAM
NO SCALE



2 E2.3 TYPICAL SINGLE SWITCH OCCUPANCY SENSOR WIRING DIAGRAM
NO SCALE

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ALABAMA REGISTERED
Kenneth R. Ray
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SHEET TITLE	LIGHTING CONTROL DETAILS
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	32 OF 41

E2.3

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PROJECT NAME AND JOB NUMBERS

GENERAL NOTES:

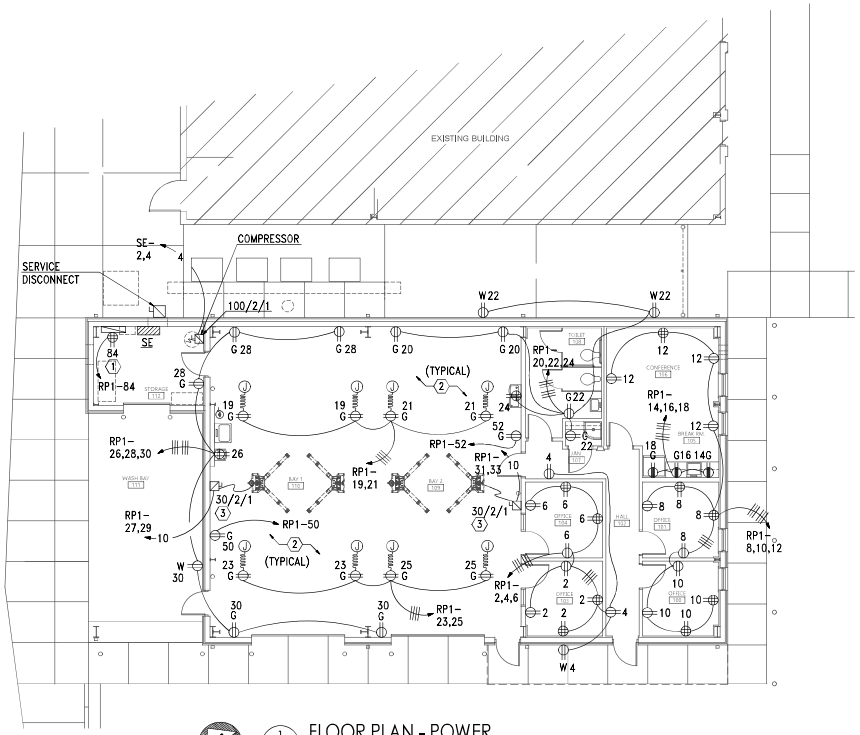
1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL, NO EXCEPTIONS.
4. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIABLE LOCATION FOR FUTURE USE.
5. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.

SHEET NOTES:

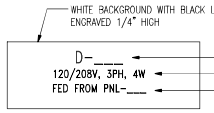
(1) MOUNT RECEPTACLE AT HEIGHT NEEDED FOR COMM RACK.

(2) MOUNT RECEPTACLES IN THIS AREA 24" AFF.

(3) COORDINATE ROUGH IN LOCATION WITH LIFT PROVIDER PRIOR TO BIDS.



1 E3.1 FLOOR PLAN - POWER
SCALE: 1/8"=1'-0"



TYPICAL NORMAL POWER NAMEPLATE

2 E3.1 DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE

1/8" = 1'-0"
8' 0 8 16 FT
GRAPHIC SCALE

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ALABAMA REGISTERED Kenneth R. Gunn NO. 26085 PROFESSIONAL ENGINEER KENNETH RAY GUNN JR.
11-20-2025

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SHEET TITLE	FLOOR PLAN - POWER
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	33 OF 41

E3.1

PROJECT NAME AND JOB NUMBERS

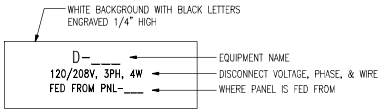
GENERAL EQUIPMENT SCHEDULE

EQUIPMENT MARK:	EQUIPMENT DESCRIPTION:	VOLTAGE/PHASE:	ELECTRICAL CHARACTERISTICS:			DISCONNECT:	FUSE:	HOMERUN:	FEEDER:
			HP	KW	AMPS				
CON-1	CONTROL PANEL	120V/1PH	—	0.600	—	TS	—	RP1 - 17	2#12 & 1#12GRD - 3/4"C
DOAS-1	RECOVERY UNIT	208V/3PH	—	—	49	100/3/GR	F	SE - 14,16,18	3#4 & 1#8GRD - 1 1/4"C
EF-1	EXHAUST FAN	120V/1PH	1/3	—	—	TS	—	RP1 - 15	2#12 & 1#12GRD - 3/4"C
PKG-1	PACKAGED UNIT	208V/3PH	—	—	20	30/3/OR	F	SE - 7,9,11	3#8 & 1#10GRD - 1"C
VEXF-1	VEHICLE EXHAUST FAN	208V/3PH	1	—	—	30/3/1	F	SE - 43,45,47	3#12 & 1#12GRD - 3/4"C
VEXF-2	VEHICLE EXHAUST FAN	208V/3PH	1	—	—	30/3/1	F	SE - 49,51,53	3#12 & 1#12GRD - 3/4"C
WH-1	ELECTRIC WATER HEATER	208V/1PH	—	4.5	—	30/2/1	F	SE - 6,8	2#10 & 1#10GRD - 3/4"C
WH-2	ELECTRIC WATER HEATER	208V/1PH	—	4.5	—	30/2/1	F	SE - 10,12	2#10 & 1#10GRD - 3/4"C

NOTES:
1. COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTOR'S BID PRICE.
2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.
4. "NF" - NON-FUSED
5. "F" - FUSED
6. "TS" MANUAL MOTOR STARTER WITH THERMAL OVERLOAD ("W" - WEATHERPROOF) ("30-AMP" - 30-AMP RATED)
7. PROVIDE INTERCONNECTING RELAY SUCH THAT FAN IS CONTROLLED BY LIGHTING.
8. "WP" - WEATHERPROOF ENCLOSURE.
9. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL MECHANICAL POWER NOTES:

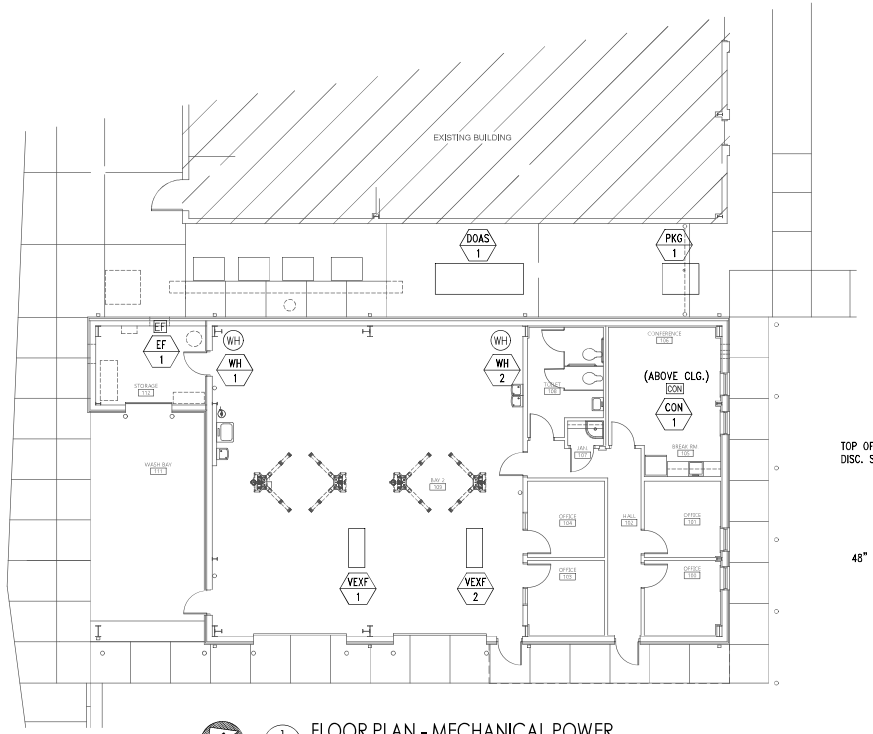
1. COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
2. MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
3. COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS, ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
4. ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
5. CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
7. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRE HOMERUN PER NEC.
8. COORDINATE WITH GENERAL EQUIPMENT SCHEDULES ON THIS SHEET FOR CIRCUITRY OF ALL EQUIPMENT TAGGED ON THIS SHEET.
9. SEE DETAIL (3) THIS SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.



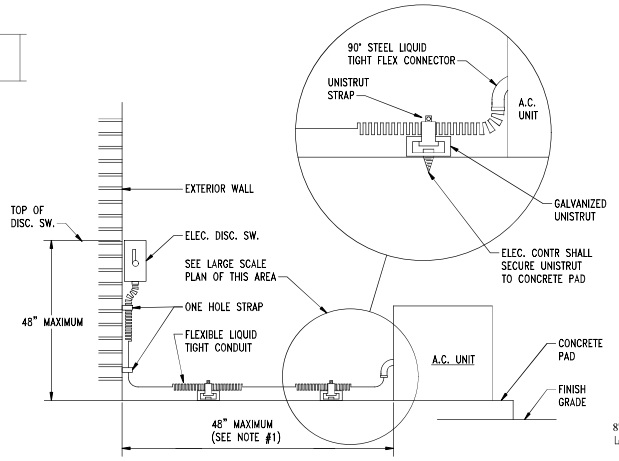
TYPICAL NORMAL POWER NAMEPLATE

2 E3.1 DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE

NOTE:
1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.



1 E3.2 FLOOR PLAN - MECHANICAL POWER
SCALE: 1/8"=1'-0"



3 E3.1 MECHANICAL UNIT CONNECTION DETIAL
NO SCALE

1/8" = 1'-0"
8' 0 8 16 FT
GRAPHIC SCALE

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PH&J Architects inc.
Alabama
Montgomery,

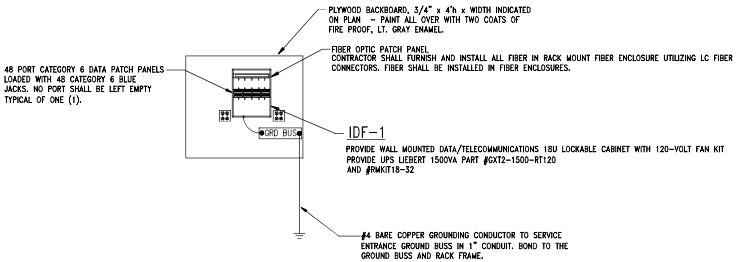
NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED Kenneth R. Gray NO. 26083 PROFESSIONAL 11-20-2025 ENGINEER KENNETH R. GRAY

DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	FLOOR PLAN - MECHANICAL POWER
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	34 OF 41

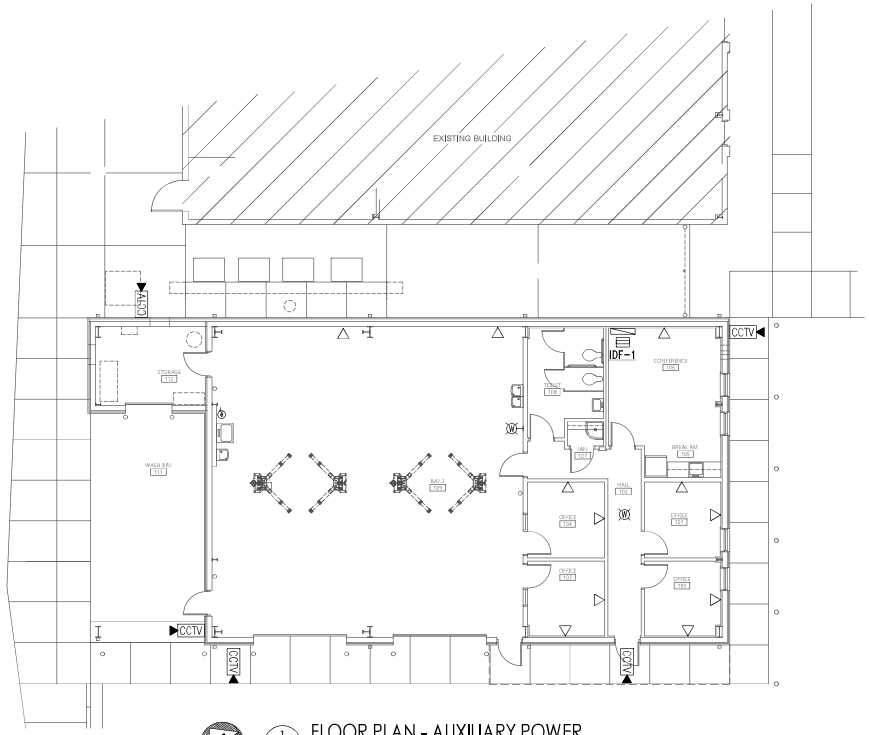
E3.2

PROJECT NAME AND JOB NUMBERS



2 E4.1 IDF-1 COMMUNICATIONS RACK ELEVATION

NO SCALE



1 E4.1 FLOOR PLAN - AUXILIARY POWER

SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL CONDUIT SHALL STUB ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE PLASTIC COLLAR AT STUB AND PULLSTRING.
2. COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
3. COORDINATE ALL MOUNTING HEIGHTS WITH MILLWORK SHOP DRAWINGS TO INSURE CORRECT MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.

1/8" = 1'-0

8' 0 8 16 FT

GRAPHIC SCALE

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PH&J architects inc.
Alabama
Montgomery,

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED KENNETH R. RAY GUNN NO. 26085 PROFESSIONAL ENGINEER 11-20-2025

DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	FLOOR PLAN - AUXILIAR
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	35 OF 41

E4.1

PROJECT NAME AND JOB NUMBERS

LIGHTING FIXTURE SCHEDULE						
TYPE:	MANUFACTURER NUMBER AND EQUALS:	VOLTAGE:	MOUNTING:	LAMP TYPE:	LAMP QUANTITY:	DESCRIPTION:
LG22	HUBBELL NO. SRP22-40VLHE-EDU OR EQUALS BY WILLIAMS, LUMAX, OR COOPER	MVOLT	RECESSED	LED	4600 LUMEN	2'X2' 4600-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LG48	HUBBELL NO. SRP24-40ML-EDU OR EQUALS BY WILLIAMS, LUMAX, OR COOPER	MVOLT	RECESSED	LED	5000 LUMEN	2'X4' 5000-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LG60	HUBBELL NO. SRP24-40HL-EDU OR EQUALS BY WILLIAMS, LUMAX, OR COOPER	MVOLT	RECESSED	LED	6000 LUMEN	2'X4' 6000-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LG72	HUBBELL NO. SRP24-40VL-EDU OR EQUALS BY WILLIAMS, LUMAX, OR COOPER	MVOLT	RECESSED	LED	7200 LUMEN	2'X4' 7200-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
LS96	COLUMBIA NO. MPS8-40-UL-CW-EDU OR EQUALS BY WILLIAMS, OR COOPER	MVOLT	SURFACE OR CHAIN HUNG	LED	16924 LUMEN	MULTIPURPOSE LINEAR, NARROW STRIP LIGHT 8 FEET WITH FROSTED LINEAR PRISMED LENS. 0-10 DIMMING.
LV96	COLUMBIA NO. LXEM8-40VL-RFA-EDU OR EQUALS BY WILLIAMS, OR COOPER	MVOLT	SURFACE OR CHAIN HUNG	LED	6397 LUMEN	LED ENCLOSED & GASKETED, EXTEME ENVIORMENT 8 FEET LED WITH FROSTED RIBBED ACRYLIC LENS. 0-10 DIMMING.
WP1	HUBBELL NO. QSP-30L-4000K-053-TYPE 3-U-COLOR BY ARCH - SCP-20F OR PRIOR APPROVED EQUALS BY WILLIAMS, OR COOPER	MVOLT	WALL	LED	5700 LUMEN	DARK BRONZE EXTERIOR LED LIGHT. UL LISTED FOR WET LOCATIONS.
EM WALL PACK	COMPASS NO. CU2HLHOSD - WIREGUARDS IN GYM OR PRIOR APPROVED EQUAL BY EMERGI-LITE, MCPHILBEN, OR PRESCOLITE	MVOLT	WALL	LED	1000 LUMEN	1000 LUMEN LED EMERGENCY WALL PACK
EXIT SIGN COMBO "XB"	DUAL-LITE NO. EVCHLU"W12-06L OR PRIOR APPROVED EQUAL BY EMERGI-LITE, MCPHILBEN, OR PRESCOLITE	MVOLT	UNIVERSAL	LED	1000 LUMEN	THERMOPLASTIC 1000-LUMEN COMBO LED EXIT SIGN EGRESS LIGHT. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. COORDINATE COLOR OF SIGNAGE WITH LOCAL REQUIREMENTS. PROVIDE WITH EMERGENCY BATTERY. PROVIDE WIREGUARDS IN GYM.

NOTES:

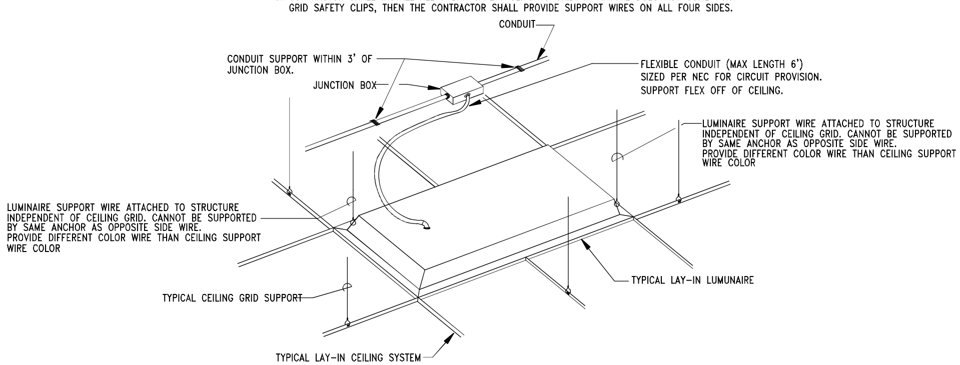
1. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS OR MAKE CUSTOM COLOR DURING SHOP DRAWING REVIEW. BID ACCORDINGLY.
2. COORDINATE MOUNTING OF ALL LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION
3. PROVIDE EMERGENCY BATTERY BALLAST FOR ALL EMERGENCY TYPE FIXTURES CAPABLE OF 90-MINUTES. ALL EMERGENCY LIGHTS IN SAFE AREA SHALL BE CONNECTED TO THE BATTERY INVERTER FOR 180-MINUTES OF RUN TIME.
4. FOR WARRANTY AND LONG TERM SUPPORT FOR OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER REPRESENTATIVES LOCATED IN THE STATE OF ALABAMA. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIABLE FOR ANY DELAYS CAUSED BY NON COMPLIANCE WITH THIS REQUIREMENT.
5. ALL INTERIOR LIGHTS SHALL HAVE 4000K TEMPERTURE LAMPS, UNLESS NOTED OTHERWISE.
6. ALL EXTERIOR LIGHTS SHALL HAVE 4000K TEMPERTURE LAMPS.
7. LIGHTS SPECIFIED WILL BE USED AT BOTH 120V AND 277V CIRCUITS. PROVIDE UNIVERSAL TYPE VOLTAGE DRIVERS FOR ALL LIGHT FIXTURES. IF A SPECIFIC VOLTAGE IS REQUIRED, LIGHTING MANUFACTURER AND CONTRACTOR SHALL WORK TOGETHER TO PROVIDE THE REQUIRED VOLTAGES FOR EACH OF THE DIFFERENT FACILITIES. ENGINEER WILL NOT BE RESPONSIBLE FOR THIS COORDINATION DURING SUBMITTALS. WE WILL ASSUME THE VOLTAGE SUBMITTED IS CORRECT.

LUMINAIRE NOTES:

1. ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
2. LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
3. ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION
4. ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIABLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
5. SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
6. ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
7. ALL LED LUMINARIES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
8. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
9. COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
10. ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION. X DESIGNATION MEANS DIFFERENT TYPE BATTERY SEE SCHEDULE.
11. CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
12. PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.

NOTES:

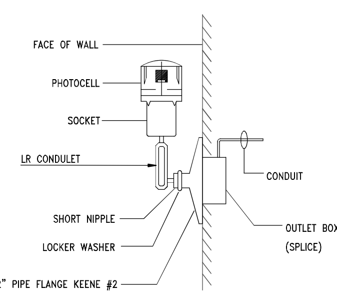
1. ALL RECESSED LUMINAIRES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN, INCLUDING LUMINAIRES IN A CONTINUOUS ROW. NO WIRING THRU FIXTURES. NO MORE THAN TWO LUMINAIRES SHALL BE CIRCUITED TO ONE JUNCTION BOX.
2. LUMINAIRE SUPPORT WIRES TO BE A MINUMUM OF #14 GAGE PRE-STRAINED GALVINIZED WIRE ATTACHED AT OPPOSITE CORNERS. LUMINAIRE SHALL BE SUPPORTED TO THE STRUCTURE INDEPENDENT OF THE CEILING GRID.
3. CONDUCTORS IN FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE SHALL CONTAIN AN INSULATED GREEN GROUND WIRE, WITH NEUTRAL AND PHASE CONDUCTORS REQUIRED FOR THE CIRCUITING AND SWITCHING REQUIREMENTS INDICATED.
4. JUNCTION BOXES SHALL BE ACCESSIBLE AND LOCATED WITHIN 1'-6" ABOVE LAY-IN CEILING INSTALLATION. PROVIDE PENDANT ALL-THREAD RODS AND/OR STRUT ASSEMBLIES TO MEET THIS REQUIREMENT WHERE DROP CEILING IS MORE THAN 1'-6" FROM STRUCTURE.
5. CONTRACTOR SHALL INSTALL ALL T-BAR SAFETY CLIPS TO GRID. IF FIXTURE DOES NOT COME WITH GRID SAFETY CLIPS, THEN THE CONTRACTOR SHALL PROVIDE SUPPORT WIRES ON ALL FOUR SIDES.



1 / E5.1 DETAIL - TYPICAL LAY-IN LUMINAIRE INSTALLATION
NO SCALE

NOTES

1. PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
2. COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
3. PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.



2 / E5.1 DETAIL - INSTALLATION OF PHOTO-CELL
NO SCALE

PH&J architects inc.
Montgomery, Alabama

NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 26088 KENNETH RAY GUNN JR. 11-20-2025

DRAWN J.C.T.	CHECK K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	LIGHTING SCHEDULE, DETAILS & NOTES
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	36 OF 41

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14, Millbrook, AL 36054, Tel: 334.285.1273
1200 Providence Park, Suite 200, Birmingham, AL 35242
GA#25-195

E5.1

PROJECT NAME AND JOB NUMBERS

PANEL - SE

TYPE: 400 AMP MAIN LUG ONLY | AIC: 65,000 AMPERES | MOUNTED: SURFACE | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE

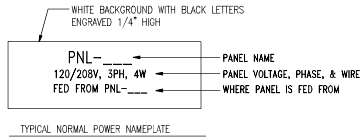
CIRCUIT DIRECTORY	(VA) PER PHASE A	(VA) PER PHASE B	(VA) PER PHASE C	AMP	POLE	CIRCUIT NUMBER		AMP	POLE	(VA) PER PHASE A	(VA) PER PHASE B	(VA) PER PHASE C	CIRCUIT DIRECTORY
EXTERIOR LIGHTS	410			20	1	1	2	20	1	1,200			RECEPTACLE
LIGHTING		1,306		20	1	3	4	20	1		1,200		RECEPTACLE
SHOP LIGHTS			1,330	20	1	5	6	20	1			1,200	RECEPTACLE
SHOP LIGHTS	1,521			20	1	7	8	20	1	1,200			RECEPTACLE
SPARE				20	1	9	10	20	1		1,200		RECEPTACLE
SPARE				20	1	11	12	20	1			1,200	RECEPTACLE
SPARE				20	1	13	14	20	1	1,200			RECEPTACLE
EF-1		864		20	1	15	16	20	1		1,200		RECEPTACLE
CON-1			600	20	1	17	18	20	1			1,200	RECEPTACLE
RECEPTACLE	1,200			20	1	19	20	20	1	1,200			RECEPTACLE
RECEPTACLE		1,200		20	1	21	22	20	1		1,200		RECEPTACLE
RECEPTACLE			1,200	20	1	23	24	20	1			900	EWC
RECEPTACLE	1,200			20	1	25	26	20	1	1,200			RECEPTACLE
LIFT #1		1,373		30		27	28	20	1		1,200		RECEPTACLE
			1,373		2	29	30	20	1			900	EWC
LIFT #2	1,373			30		31	32	70		3,203			COMPRESSOR (5HP 1 PH)
		1,373			2	33	34		2		3,203		
SPARE				20	1	35	36	30				2,250	WH-1
PKG-1	1,920			30		37	38		2	2,250			
		1,920				39	40	30			2,250		WH-2
			1,920		3	41	42		2			2,250	
VEXF-1 (1HP)	576			20		43	44	70		4,733			DOAS-1
		576				45	46				4,733		
			576		3	47	48		3			4,733	
VEXF-2 (1HP)	576			20		49	50	20	1	1,200			RECEPTACLE
		576				51	52						SPARE
			576		3	53	54						SPARE
						55	56						SPARE
						57	58						SPARE
						59	60						SPARE
BUSSED SPACE						61	62						SPARE
BUSSED SPACE						63	64						SPARE
BUSSED SPACE						65	66						SPARE
BUSSED SPACE						67	68						SPARE
BUSSED SPACE						69	70						SPARE
BUSSED SPACE						71	72						SPARE
BUSSED SPACE						73	74						SPARE
BUSSED SPACE						75	76						SPARE
BUSSED SPACE						77	78						SPARE
BUSSED SPACE						79	80						SPARE
BUSSED SPACE						81	82						SPARE
BUSSED SPACE						83	84	20	1			600	TBB
SUB TOTAL (VA)	8,776	9,188	7,575							17,386	16,166	12,233	

TOTAL LOAD PHASE A: 26,162 (VA)
TOTAL LOAD PHASE B: 25,374 (VA)
TOTAL LOAD PHASE C: 22,808 (VA)
TOTAL LOAD: 74,344 (VA) = 207 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE WITH INTEGRAL TVSS WITH 160,000 AMPS PER MODE PROTECTION.
3. PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING. SEE DETAIL.
4. PROVIDE ARC FAULT LABEL PER DETAILS.
5. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.

PANELBOARD NOTES:

1. PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
2. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
3. PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
4. FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
5. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
6. PROVIDE THE PROPER SIZE AND QUANTITY OF CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) ON BUSES AND CIRCUIT BREAKERS FOR THE RESPECTIVE SIZE AND NUMBER OF CONDUCTORS INDICATED.
7. ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
8. PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
9. ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
10. ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
11. COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
12. EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL 1 ON THIS SHEET. ENGINEER WILL NOT PROVIDE FINAL ACCEPTANCE UNTIL THESE NAMEPLATES ARE PROVIDED.



TYPICAL NORMAL POWER NAMEPLATE

1 / E5.2 DETAIL - TYPICAL PANELBOARD NAMEPLATE
NO SCALE

NOTES:
1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
2. THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
4. THE SIZE OF THE LABEL SHALL BE:

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	4"	6"
OUTDOOR	4"	6"

2 / E5.2 ARC FLASH WARNING LABELS
NO SCALE

POWER EQUIPMENT MANUFACTURERS BIDDING THIS PROJECT SHALL INCLUDE IN THEIR BASE BID PRICE AND ALL EXPEDITED CHARGES AS REQUIRED TO SHIP SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, AND DISCONNECTS TO THE JOB SITE S REQUIRED TO MEET PROJECT SCHEDULE. CONTRACTOR AND SUPPLIER SHALL SET THIS TIME PRIOR TO BID ACCORDING PUBLISHED SCHEDULE IN BID DOCUMENTS.

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Alabama
Montgomery,

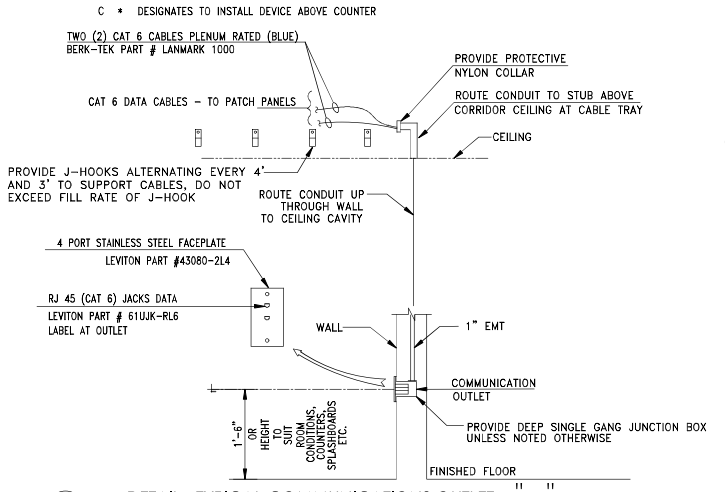
NEW FLEET MANAGEMENT BUILDING
FOR
AIDT
MONTGOMERY, ALABAMA

ALABAMA REGISTERED PROFESSIONAL ENGINEER
Kenneth R. Ray
NO. 26088
11-20-2025
KENNETH RAY GUNN III

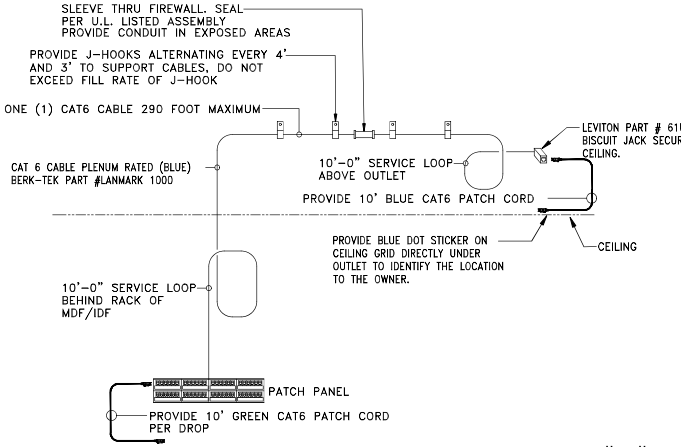
DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	PANELBOARD SCHEDULE. DETAILS & NOTES
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	37 OF 41

E5.2

PROJECT NAME AND JOB NUMBERS

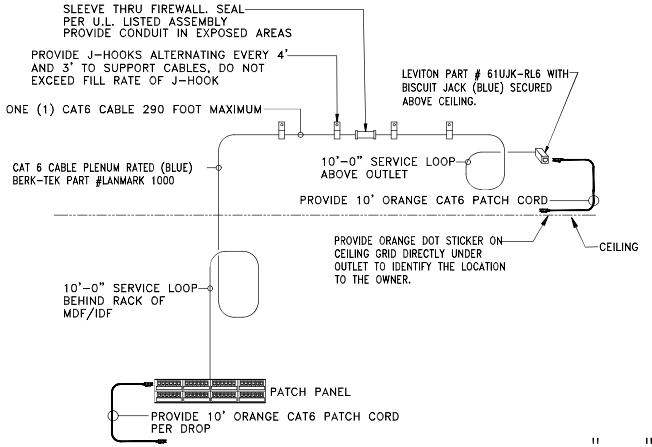


1 E6.1 DETAIL - TYPICAL COMMUNICATIONS OUTLET
NO SCALE



2 E6.1 DETAIL - TYPICAL WIRELESS ACCESS POINT OUTLET
NO SCALE

* NOTE: EXTERIOR CAMERAS PROVIDE SINGLE GANG JUNCTION BOX WITH 3/4" CONDUIT STUBBED TO ABOVE INTERIOR CEILING. COORDINATE EXTERIOR CAMERA KEYSTONE LOCATION WITH OWNER PRIOR TO INSTALLATION



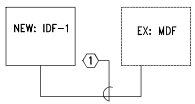
3 E6.1 DETAIL - TYPICAL WIRELESS ACCESS POINT OUTLET
NO SCALE

RISER DIAGRAM KEYED NOTES:

1. CONTRACTOR SHALL PROVIDE A 6 STRAND OM3 MM 50-MICRON FIBER OPTIC CABLE INTERCONNECTING THE EXISTING MDF TO THE NEW IDF-1. PROVIDE FIBER OPTIC PATCH EQUIPMENT IN EXISTING MDF IN EXISTING BUILDING TO INTERCONNECT THE TWO RACKS BY FIBER. PROVIDE LC TYPE CONNECTIONS. VISIT SITE PRIOR TO BIDS AND ADJUST ROUTING AND CABLING LENGTHS ACCORDINGLY. SEE ELECTRICAL SITE PLAN FOR CONDUIT REQUIREMENTS. PROVIDE J-HOOKS ABOVE CEILINGS TO SUPPORT FIBER IN CONCEALED AREAS. PROVIDE CONDUIT IN EXPOSED AREAS.

COMMUNICATION NOTES:

1. PROVIDE 5/8" STRUT ASSEMBLY AT TOP AND BOTTOM OF TBB TO SUPPORT ALL CONDUITS TERMINATING AT BACKBOARD.
2. TBB SHALL BE 3/4" PLYWOOD EXTERIOR RATED AND CUT TO COVER ALL WALLS OR AS INDICATED. PAINT WITH TWO COATS OF FIRE RETARDENT PAINT. MOUNT 2' AFF.
3. PROVIDE A PLASTIC BUSHING OR PROTECTIVE COLLAR AT EACH CONDUIT TERMINATION, INCLUDING TERMINATIONS ABOVE THE CEILING, AT CABLE TRAY, OR AT TBB.
4. ALL CONDUIT TERMINATIONS SHOULD BE DONE EVENLY AT THE TOP AND BOTTOM OF TBB. TERMINATIONS SHALL BE MADE WITHIN THE FIRST FEW INCHES OF THE TBB.
5. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
6. PROVIDE GROUND BUS FOR EACH TBB. SEE GROUND BUS INSTALLATION DETAIL.
7. PROVIDE ALL CONDUITS WITH MINIMUM #800 MULE TAPE (PULL TAPE).
8. STENCIL ALL JUNCTION BOX COVERS ABOVE THE CEILING WITH 2" LETTERS THAT READ "COMM".
9. ELECTRICAL CONTRACTOR WILL BE RESPONSIABLE FOR ALL RACEWAYS, CABLE TRAY, CABLING, PATCH PANELS, TERMINATIONS, BACKBOARDS, ETC. SEE RISER DIAGRAM, DETAILS, AND SPECIFICATIONS FOR FURTHER EQUIPMENT REQUIREMENTS.
10. BOND RACK FRAMES, STRUT, CONDUITS, AND LADDER RACK TO THE GROUND BUS WITH MINIMUM SIZE WIRE OF #1/0.



4 E6.1 COMMUNICATIONS RISER DIAGRAM
NO SCALE

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NEW FLEET MANAGEMENT BUILDING
FOR
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MONTGOMERY, ALABAMA

ALABAMA REGISTERED Kenneth R. Gray NO. 26085 PROFESSIONAL ENGINEER 11-20-2025

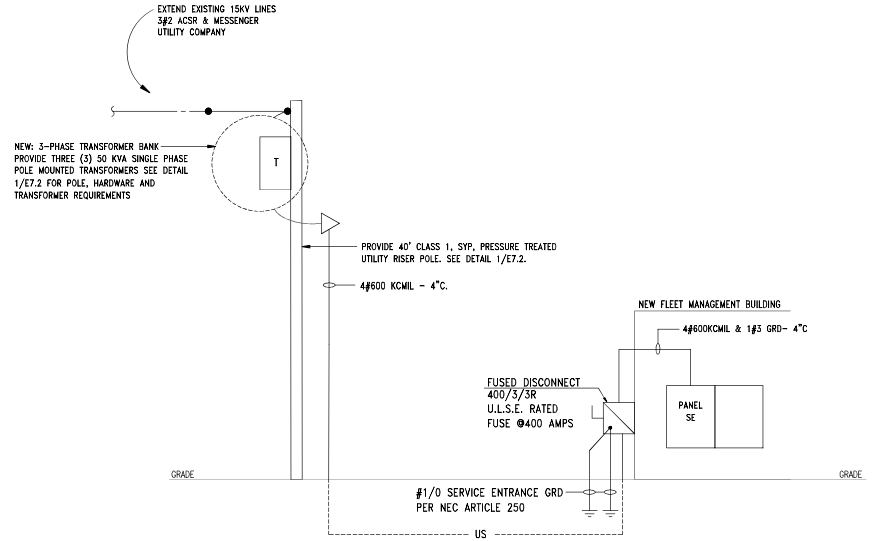
DRAWN	J.C.T.
CHECK	K.R.G.
DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	COMMUNICATION DETAILS & NOTES
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	38 OF 41

E6.1

PROJECT NAME AND JOB NUMBERS

POWER RISER DIAGRAM NOTES:

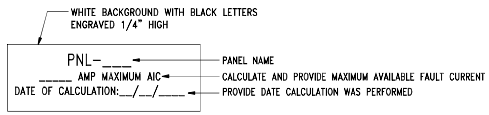
1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING . CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
5. ALABAMA POWER COMPANY WILL BE FURNISHING THE OVERHEAD SECONDARY TO THE WEATHERHEADS COORDINATE WITH ALABAMA POWER ALL REQUIREMENTS SET FORTH BY THE UTILITY COMPANY AND PAY FOR ALL FEES TO GET POWER CONNECTED TO BUILDING. COORDINATE PRIOR TO BID AND BID ACCORDINGLY.
6. PROVIDE UNISTRUT SUPPORT ACROSS STRUCTURE WITH ANCHOR BOLT TO SUPPORT THE MOUNTING OF WEATHERHEADS TO THE SIDE OF THE BUILDING.



1 E7.1 POWER RISER DIAGRAM
NO SCALE

NOTES:

1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCUALTION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.



TYPICAL SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

2 E7.1 DETAIL - SERVICE ENTRANCE FAULT CURRENT NAMEPLATE
NO SCALE

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DATE	NOVEMBER 20, 2025
REVISED	
REVISED	
SHEET TITLE	POWER RISER DIAGRAM, DETAILS & NOTES
JOB NO.	PH&J #2502-CUA DCM #2025417
SEQUENCE NO.	39 OF 41

E7.1

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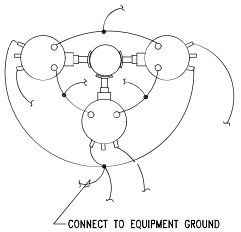
PROJECT NAME AND JOB NUMBERS

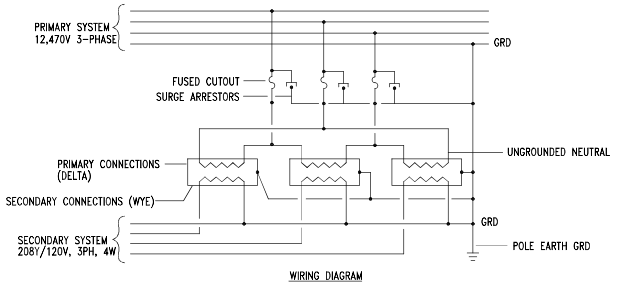
KEYED NOTES

1. POLE - 40 FT PRESSURE TREATED SYP. BURY 6 FEET.
2. 40" (1.016m) STEEL CROSSARM, DEAD-END TYPE
3. TRANSFORMER RADIAL BRACKET, 3 PHASE
4. MACHINE BOLT, 5/8"(15.875mm) x LENGTH REQ, WITH WASHER NUT AND LOCKNUT ASSEMBLY
5. JUMPERS AS REQUIRED
6. PROTECTIVE WOOD MOLDING OVER SOLID COPPER CONDUCTOR NOTED
7. SURGE ARRESTOR
8. 15KV PRIMARY FUSED CUTOUT, 100 AMP (8E FUSE), OPEN TYPE. SEE DETAIL THIS SHEET
9. CUTOUT AND ARRESTOR MOUNTING BRACKET
10. HOT LINE CLAMP
11. DEAD-END SINGLE-SUSPENSION INSULATOR
12. DEAD-END ASSEMBLY
13. GUY WIRE, SEE DETAIL 1/E7.3
14. THRU-BOLT FOR INSULATOR
15. CLEVIS FOR NEUTRAL SUPPORT
16. PROVIDE UTILITY POLE GROUNDING PER NESC

DIMENSION BLOCK		
REF	ENGLISH	SI
A	0'-9"	228.6mm
B	4'-0"	1.2192m
C	5'-0"	1.524m



TOP VIEW OF TRANSFORMER CONNECTIONS



WIRING DIAGRAM

DIAGRAM OF TRANSFORMER CONNECTIONS 3-50KVA SINGLE PHASE TYPE

INSTALLATION NOTES

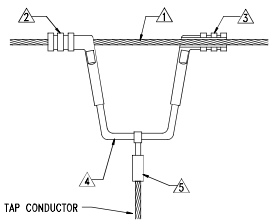
1. FURNISH AND INSTALL A COMPLETE ASSEMBLY INCLUDING DEVICES, SUPPORTS, GROUNDING, CONDUCTORS, ETC.

KEYED NOTES

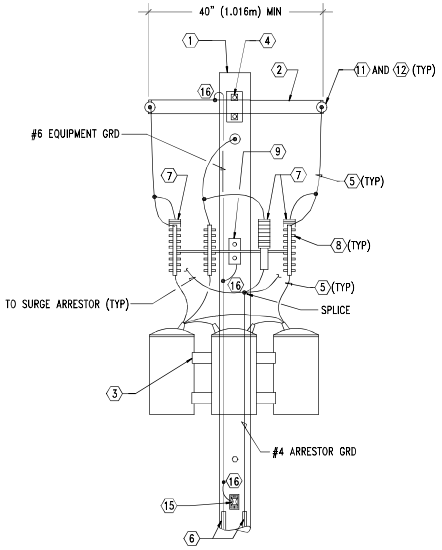
1. OVERHEAD PRIMARY CONDUCTOR
2. ONE-PIECE COMPRESSION CONNECTOR LINE CLAMP, SHOWN AFTER COMPRESSION
3. ONE-PIECE COMPRESSION CONNECTOR LINE CLAMP, SHOWN BEFORE COMPRESSION
4. SOLID COPPER, PLATED BAIL
5. COMPRESSION TAP FITTING

INSTALLATION NOTES

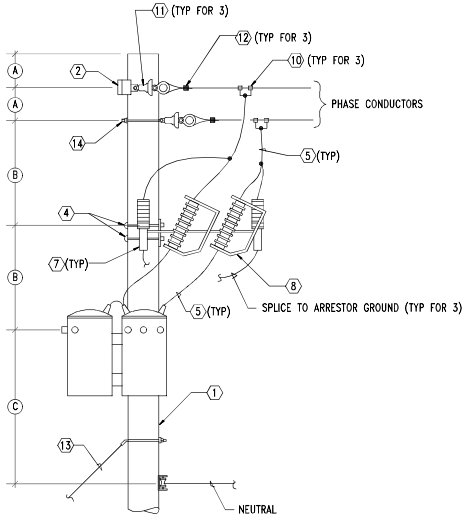
1. FURNISH THE PROPER SIZE PER MANUFACTURER'S RECOMMENDATION FOR THE CONDUCTORS UTILIZED WITH CURRENT RATING EQUAL TO MAXIMUM LINE CONNECTION.
2. USE THE PROPER TOOLING AS RECOMMENDED AND/OR FURNISHED BY THE MANUFACTURER.



2 / E7.2 DETAIL - COMPRESSION SPLICE FOR 15KV OH CABLE
N.T.S.



FRONT VIEW



SIDE VIEW

1 / E7.2 DETAIL - TYPICAL POLE MOUTED TRANSFORMERS, CUTOUTS, ARRESTORS AND POLE HARDWARE
N.T.S.

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Kenneth R. Gunn
NO. 26085
PROFESSIONAL
11-20-2025
ENGINEER
KENNETH RAY GUNN JR.

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SHEET TITLE
POWER RISER DIAGRAM, DETAILS & NOTES

JOB NO: PH&J #2502-CUA
DCM #2025417

SEQUENCE NO: 40 OF 41

E7.2

PROJECT NAME AND JOB NUMBERS

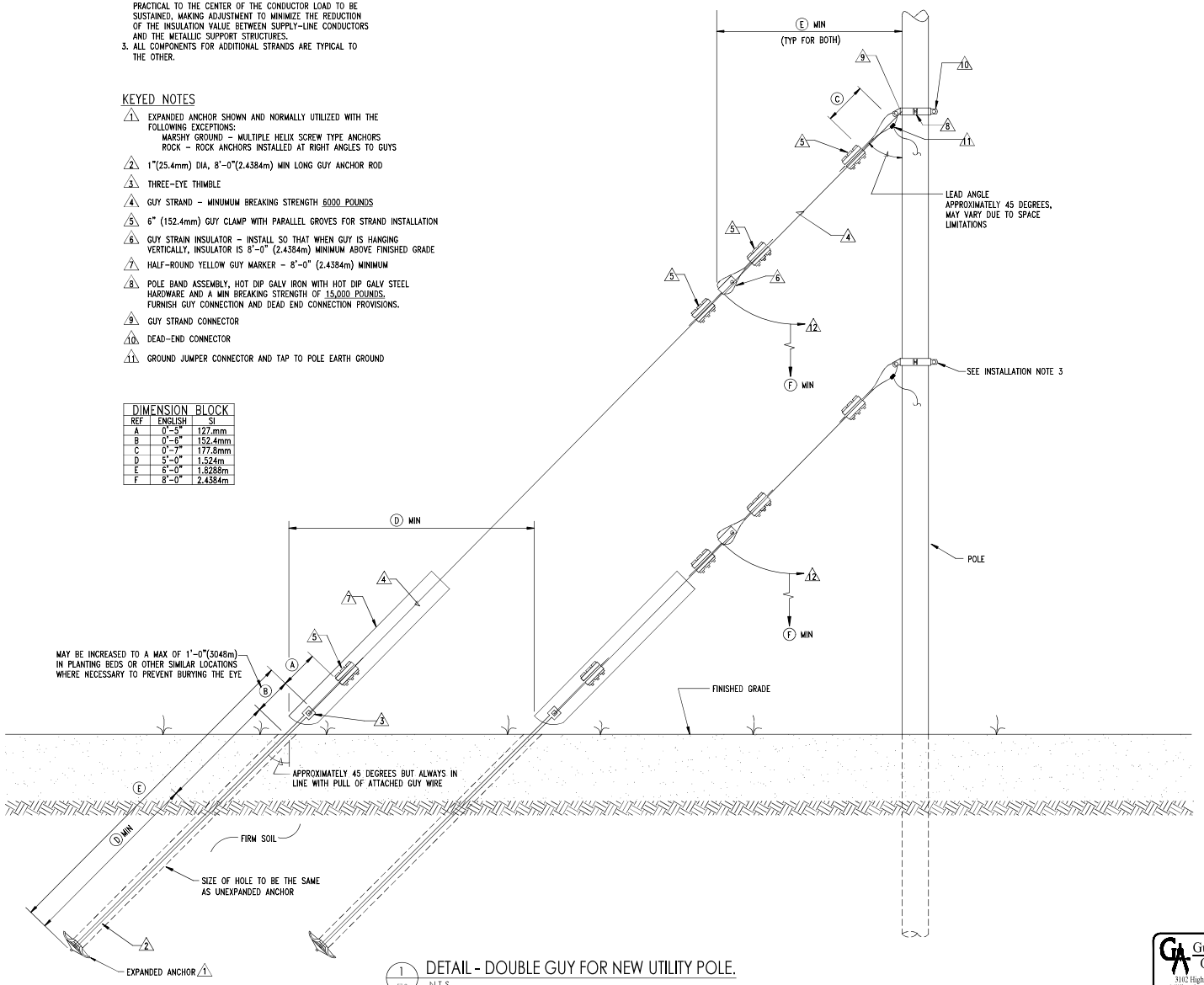
INSTALLATION NOTES

1. DIMENSIONS SHOWN ARE APPROXIMATE AFTER STRAIN IS APPLIED.
2. EACH GUY SHOULD BE ATTACHED TO THE POLE AS NEAR AS IS PRACTICAL TO THE CENTER OF THE CONDUCTOR LOAD TO BE SUSTAINED, MAKING ADJUSTMENT TO MINIMIZE THE REDUCTION OF THE INSULATION VALUE BETWEEN SUPPLY-LINE CONDUCTORS AND THE METALLIC SUPPORT STRUCTURES.
3. ALL COMPONENTS FOR ADDITIONAL STRANDS ARE TYPICAL TO THE OTHER.

KEYED NOTES

1. EXPANDED ANCHOR SHOWN AND NORMALLY UTILIZED WITH THE FOLLOWING EXCEPTIONS:
   MARSHY GROUND – MULTIPLE HELIX SCREW TYPE ANCHORS
   ROCK – ROCK ANCHORS INSTALLED AT RIGHT ANGLES TO GUYS
2. 1"(25.4mm) DIA, 8'-0"(2.4384m) MIN LONG GUY ANCHOR ROD
3. THREE-EYE THIMBLE
4. GUY STRAND – MINUMUM BREAKING STRENGTH 6000 POUNDS
5. 6" (152.4mm) GUY CLAMP WITH PARALLEL GROVES FOR STRAND INSTALLATION
6. GUY STRAIN INSULATOR – INSTALL SO THAT WHEN GUY IS HANGING VERTICALLY, INSULATOR IS 8'-0" (2.4384m) MINIMUM ABOVE FINISHED GRADE
7. HALF-ROUND YELLOW GUY MARKER – 8'-0" (2.4384m) MINIMUM
8. POLE BAND ASSEMBLY, HOT DIP GALV IRON WITH HOT DIP GALV STEEL HARDWARE AND A MIN BREAKING STRENGTH OF 15,000 POUNDS. FURNISH GUY CONNECTION AND DEAD END CONNECTION PROVISIONS.
9. GUY STRAND CONNECTOR
10. DEAD-END CONNECTOR
11. GROUND JUMPER CONNECTOR AND TAP TO POLE EARTH GROUND

DIMENSION BLOCK		
REF	ENGLISH	SI
A	0'-5"	127.mm
B	0'-6"	152.4mm
C	0'-7"	177.8mm
D	5'-0"	1.524m
E	6'-0"	1.8288m
F	8'-0"	2.4384m



1 E7.3 DETAIL - DOUBLE GUY FOR NEW UTILITY POLE.
N.T.S.

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ALABAMA REGISTERED KENNETH RAY GUNN JR. NO. 26084 PROFESSIONAL ENGINEER 11-20-2025

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SHEET TITLE
POWER RISER DIAGRAM DETAILS & NOTES

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SEQUENCE NO 41 OF 41

E7.3

PROJECT NAME AND JOB NUMBERS