

ELECTRICAL SYMBOL LEGEND			
NOTES:			
1. ALL SYMBOLS MAY NOT APPLY.			
	CODED PLAN NOTE		DETAIL #
	EQUIPMENT DESIGNATION		REFERENCE TAG
	CIRCUIT DESIGNATION		
	PANEL DESIGNATION - CIRCUIT NUMBER		
	ELECTRIC UTILITY KEY BOX	\$ ³	WALL SWITCH-NUMBER INDICATES 2 POLE, 3 OR 4 WAY (NO NUMBER FOR SINGLE POLE). LOWER CASE LETTER INDICATES FIXTURE(S) TO BE CONTROLLED BY SWITCH
	FANLIGHT COMBINATION FIXTURE	\$ ^D	
	EXHAUST FAN	\$ ^D	DIMMER SWITCH
	JUNCTION BOX	\$ ^F	CEILING FAN SPEED CONTROL SWITCH
	NON-FUSED DISCONNECT SWITCH	\$ ^K	KEY-OPERATED SWITCH
	FUSED DISCONNECT SWITCH	\$ ^M	MOTOR RATED DISCONNECT SWITCH
	MOTOR	\$ ^{OS}	OCCUPANCY SENSOR WALL SWITCH GREENGATE #0N9W-D-100-MV OR EQUAL
	PUSH BUTTON	\$ ^{OR}	OVERRIDE SWITCH
	BUZZER/BELL	\$ ^{PL}	SWITCH WITH PILOT LIGHT
	LOW VOLTAGE TRANSFORMER	\$ ^T	TIMER SWITCH GREENGATE #TSW-MV OR EQUAL
	SINGLE RECEPTACLE 20A, 120V	\$ ^{OS}	WALL MOUNT OCCUPANCY SENSOR GREENGATE #0AOW-DT-120V OR EQUAL
	SPECIAL RECEPTACLE	\$ ^{OS}	CEILING MOUNT OCCUPANCY SENSOR GREENGATE #0AC-DT-2000-R OR EQUAL
	DUPLEX RECEPTACLE 20A, 120V	\$ ^{SP}	SWITCH PACK FOR OCCUPANCY SENSOR
	QUADRIPLEX RECEPTACLE 20A, 120V	\$ ^{CP}	PHOTOCELL
	GFCI DUPLEX RECEPTACLE 20A, 120V	\$ ^{TC}	TIMECLOCK
	GFCI QUADRIPLEX RECEPTACLE 20A, 120V	\$ ^{EA}	CURRENT LIMITING DEVICE - NUMBER INDICATES MAX AMPERAGE OF DEVICE
	IG DUPLEX RECEPTACLE 20A, 120V	\$ ^{PP}	POWER POLE
	IG QUADRIPLEX RECEPTACLE 20A, 120V	\$ ^W	2" CONDUIT STUB AND BOX FOR WALL PHONE WIRING BY OTHERS
	SPLIT WIRED DUPLEX RECEPTACLE 20A, 120V	\$ ^W	2" CONDUIT STUB AND BOX FOR PHONE WIRING BY OTHERS
	SPLIT WIRED QUADRIPLEX RECEPTACLE 20A, 120V	\$ ^W	2" CONDUIT STUB AND BOX FOR DATA WIRING BY OTHERS
	TWISTLOCK RECEPTACLE	\$ ^W	2" CONDUIT STUB AND BOX FOR DATA/PHONE WIRING BY OTHERS
	FLUSH MOUNT AS INDICATED BY BOX AROUND DEVICE, FLUSH LOOK, CLG-CEILING	\$ ^{TV}	TELEVISION OUTLET
	SURFACE MOUNT	\$ ^{WA}	WIRELESS ACCESS
	PANELBOARD/LOADCENTER	\$ ^{MB}	MEDIA BOX DEMARC LOCATION
	FLUSH MOUNT PANELBOARD/LOADCENTER	\$ ^{OP}	OVERHEAD PROJECTOR
	UTILITY SERVICE METER	\$ ^{UPS}	UNINTERRUPTIBLE POWER SUPPLY
	PLUGLOAD - SEE PLAN VIEW FOR SPECIFIC LENGTHS		
	GENERATOR ANNUNCIATOR		

SPECIAL SYSTEMS SYMBOL LEGEND			
NOTES:			
1. ALL SYMBOLS MAY NOT APPLY.			
	FIRE ALARM CONTROL PANEL		NOTIFICATION CIRCUIT POWER BOOSTER PANEL # = UNIT NUMBER
	FIRE ALARM ANNUNCIATOR		BATTERY CABINET
	VOICE EVACUATION CONTROL UNIT		AREA OF REFUGE EM COMMUNICATION SYSTEM - MASTER UNIT
	REMOTE VOICE EVACUATION MICROPHONE		AREA OF REFUGE EM COMMUNICATION SYSTEM - REMOTE UNIT
	MANUAL PULL STATION		CARBON MONOXIDE DETECTOR
	SMOKE DETECTOR		SMOKE ALARM WITH SOUNDER BASE
	SMOKE DETECTOR P = PHOTOELECTRIC		SMOKE DETECTOR BT = BEAM TRANSMITTER
	SMOKE DETECTOR I = IONIZATION		SMOKE DETECTOR BR = BEAM RECEIVER
	SMOKE DETECTOR IN DUCT		REMOTE TEST STATION
	HEAT DETECTOR		VIBRATING BELL
	HORN		SPEAKER STROBE COMBINATION
	WALL MOUNT STROBE		CEILING MOUNT STROBE
	CEILING MOUNT HORN		CEILING MOUNT SPEAKER STROBE COMBINATION
	WATER FLOW SWITCH		DOOR HOLDER
	VALVE SUPERVISORY SWITCH		DOOR CLOSER
	PRESSURE SWITCH		ADDRESSABLE INPUT MODULE
	FIRE DEPARTMENT KEY BOX		MONITORING MODULE

ELECTRICAL NOTATIONS			
AC	ABOVE COUNTER	IG	ISOLATED GROUND
AFF	ABOVE FINISHED FLOOR	LV	LOW VOLTAGE
AFG	ABOVE FINISHED GRADE	MBJ	MAIN BONDING JUMPER
BPS	BOLTED PRESSURE SWITCH	MC	MECHANICAL CONTRACTOR
CLG	CEILING MOUNTED	MTD	MOUNTED
CKT	CIRCUIT	NTS	NOT TO SCALE
EC	ELECTRICAL CONTRACTOR	(PART)	INDICATES CIRCUIT USED ELSEWHERE
EM	EMERGENCY	PC	PLUMBING CONTRACTOR
ETR	EXISTING TO REMAIN	SSBJ	SUPPLY-SIDE BONDING JUMPER
FLR	FLOOR MOUNTED	SC	SITE UTILITY CONTRACTOR
FSC	FIRE SUPPRESSION CONTRACTOR	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UG	UNDERGROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
GFEF	GROUND FAULT EQUIPMENT PROTECTION	WP	WEATHERPROOF
GND	GROUND	WG	WIRE GUARD
HC	HVAC CONTRACTOR	XX"	DIMENSIONED HEIGHT

ELECTRICAL LINETYPE LEGEND	
----	GENERAL DEMO
----	GENERAL EXISTING
----	SWITCH LEG
----	UGE
----	UNDERGROUND ELECTRIC (ABANDONED)
----	(D)UGE
----	UNDERGROUND ELECTRIC (DEMO)
----	(E)UGE
----	UNDERGROUND ELECTRIC (EXISTING)
----	(LV)
----	LOW VOLTAGE
----	(D)LV
----	LOW VOLTAGE (ABANDONED)
----	(E)LV
----	LOW VOLTAGE (EXISTING)
----	UGLV
----	UNDERGROUND LOW VOLTAGE
----	(AB)UGLV
----	UNDERGROUND LOW VOLTAGE (ABANDONED)
----	(D)UGLV
----	UNDERGROUND LOW VOLTAGE (DEMO)
----	(E)UGLV
----	UNDERGROUND LOW VOLTAGE (EXISTING)

ELECTRICAL SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
E001	ELECTRICAL COVER SHEET
E002	ELECTRICAL SITE PLAN
E101	LIGHTING PLAN
E201	POWER PLAN
E202	POWER PLAN - ROOF
E301	FIRE ALARM PLAN
E302	FIRE ALARM PLAN - ROOF
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES
E701	ELECTRICAL RISER DIAGRAM
E801	ELECTRICAL ENGINEERING FORMS

** NOTE **	
THE FIRE ALARM PLAN FOR THIS PROJECT IS A DEFERRED SUBMITTAL PROVIDED BY THE CONTRACTOR.	
A FIRE ALARM NOTIFICATION AND / OR DETECTION SYSTEM IS REQUIRED IN GROUP E OCCUPANCIES WITH (1) 50+ OCCUPANTS, (2) MORE THAN ONE CLASSROOM, OR (3) USED FOR DAYCARE PURPOSES.	
THE OCCUPANT LOAD OF THIS E OCCUPANCY EXCEEDS 100. THE ALARM SYSTEM SHALL HAVE AN EMERGENCY VOICE / ALARM COMMUNICATIONS FUNCTION PER CBC 907.2.1.1.	

GENERAL

- THE "SPECIAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.
- ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- SEAL OPENINGS THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NON-COMBUSTIBLE MATERIAL.
- PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE ROOF OR DAMAGED. CLEAN AND REPAIR TO MATCH ADJOINING WORK. FLASHING AND EQUIPMENT: PROVIDE EQUIPMENT CURBS AS REQUIRED.
- THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK DURING OVERTIME HOURS AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
- ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULLFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.

SCOPE OF WORK

- SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.
- ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLEMENTED OR SPECIFIED HEREIN.
- THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO E PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING THE WORK, INCLUDING THE COST OF MATERIALS AND LABOR. DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH ALL DEPARTMENTS HAVING JURISDICTION, OBTAIN PERMITS OR LAISSEZ-PASSER TO CARRY OUT THIS WORK AND PAY ALL FEES THEREOF. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.

SHOP DRAWINGS

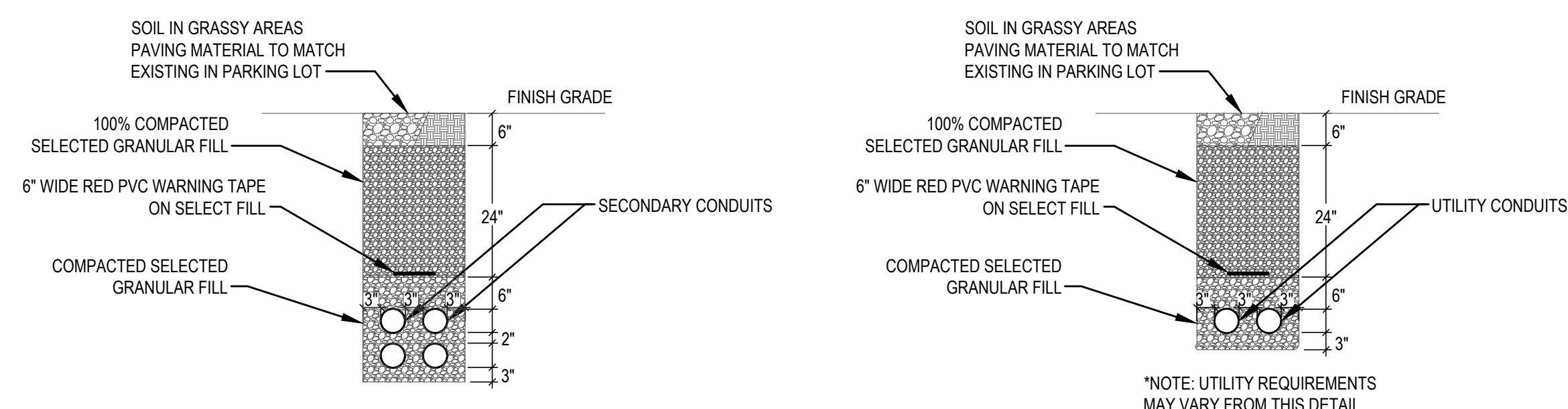
- PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL EQUIPMENT, INDICATING CAPACITY, DIMENSIONS AND LOCATION OF ORIENTATION FOR THE APPROVAL BY THE ARCHITECT, ENGINEER AND KIDDE ACADEMY DOMESTIC FRANCHISING, LLC.
- INDICATE ON EACH SHOP DRAWINGS SUBMITTED: 1) PROJECT NAME AND LOCATION; 2) NAME OF ARCHITECT AND ENGINEER; 3) ITEM IDENTIFICATION; 4) APPROVAL STAMP OF PRIME CONTRACTOR.
- SUBMISSIONS: 1) SUBMISSIONS 11 IN X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES. OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECEIVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE. 2) SUBMISSIONS LARGER THAN 11 IN X 17 IN: SUBMIT TWO PRINTS AND ONE PAPER SERIA TO THE ARCHITECT. THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SERIA TO THE ENGINEER.
- SUBMIT SHOP DRAWINGS FOR THE FOLLOWING: 1) SWITCHES; 2) FUSES; 3) CIRCUIT BREAKERS; 4) PANELBOARDS (INCLUDING SCHEDULES); 5) RACETRAYS; 6) RACETRAYS; 7) WIRE B AND CABLE; 7) WALL SWITCHES; 8) INSERTION RECEPTACLES; 9) MOMENTARY CONTACT SWITCHES; 10) TIME SWITCHES; 11) SURFACE METAL RACEWAY; 12) LIGHTING FIXTURES; 13) TRANSFORMERS.

AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS

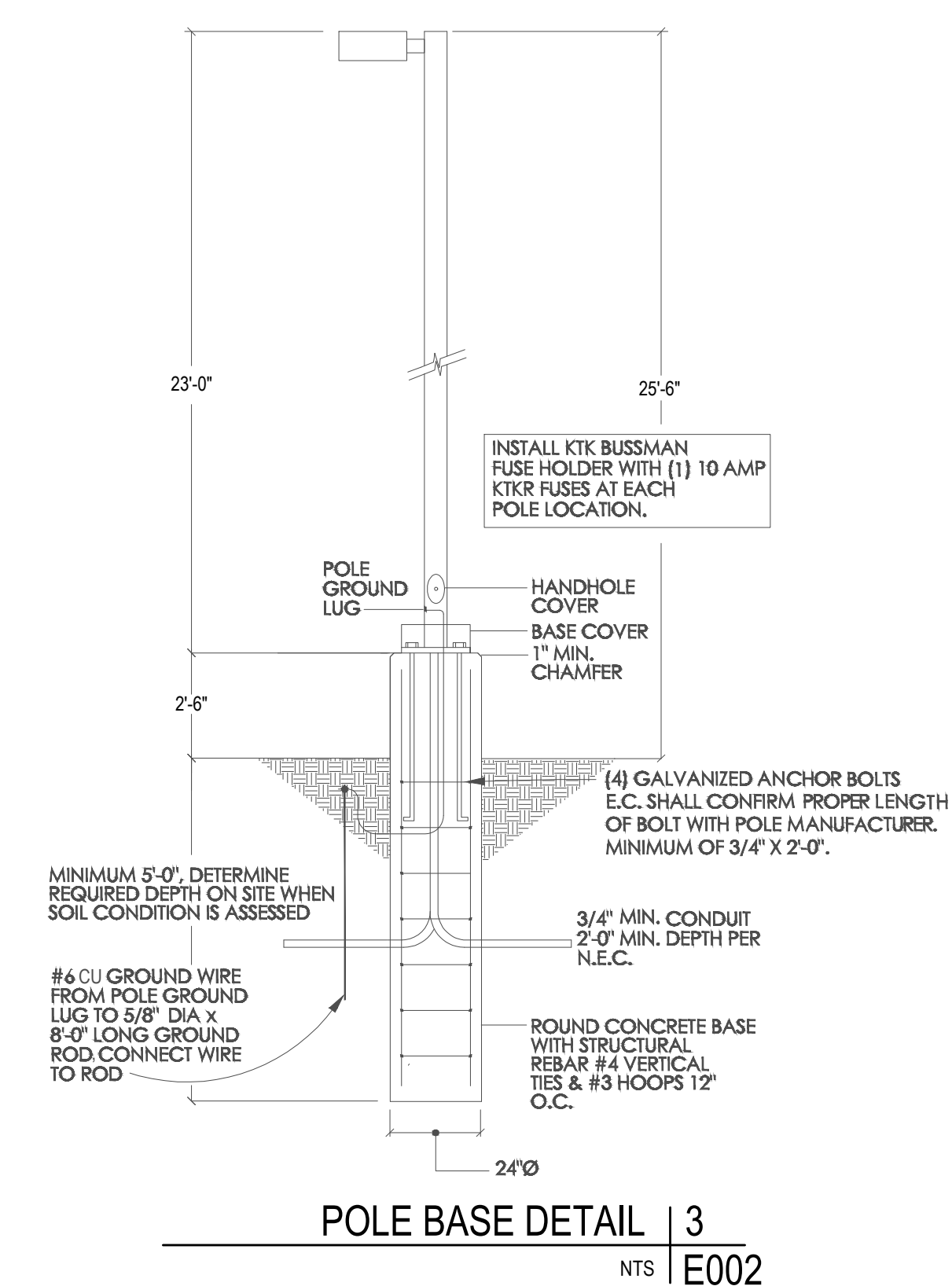
- AFTER COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.
- THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/2 IN X 11 IN PAPER AND BOUND IN THREE RING BINDERS WITH CLEAR ACETATE COVERS. CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER.
- THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PROJECT, ARCHITECT AND ENGINEER.
- REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE AS INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.

GENERAL PROVISIONS FOR ELECTRICAL WORK

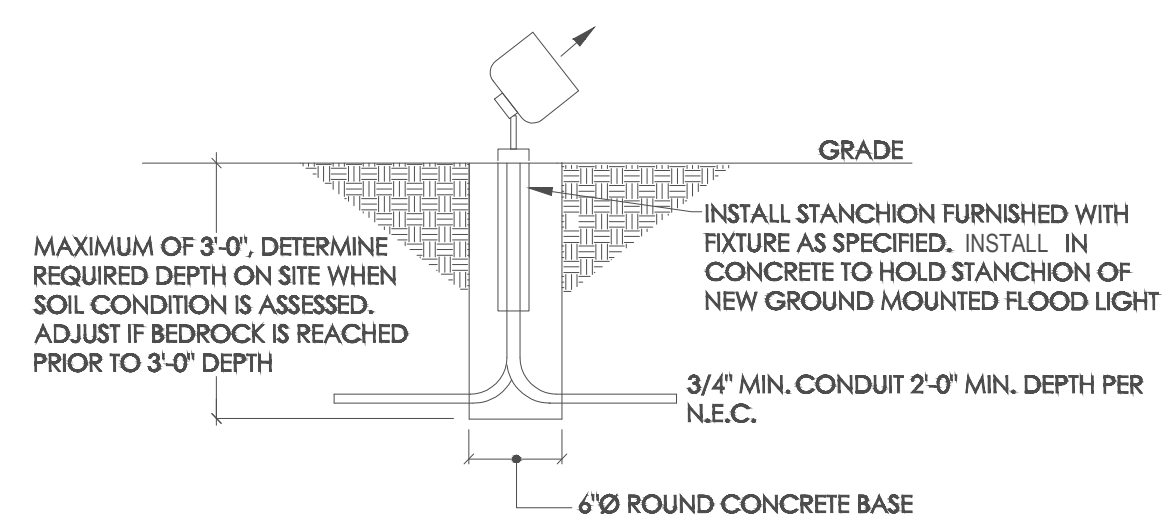
- SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES, WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
- DEFINITIONS: 1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED; 2) "INSTALL": TO MOUNT AND CONNECT COMPLETE WITH ALL NECESSARY ACCESSORIES; 3) "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES; 4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION; 5) "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED ITEMS; 6) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES; 7) "EXPPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE; 8) "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.
- TEMPORARY LIGHT AND POWER: PROVIDE TEMPORARY LIGHT AND POWER SYSTEMS AT EARLIEST POSSIBLE DATE WITHIN THE CONSTRUCTION AREAS FOR THE REQUIREMENTS OF ALL TRADES AS HEREIN DESCRIBED. EXTEND SYSTEMS TO NEW CONSTRUCTION AS SOON AS PHYSICALLY POSSIBLE. MAINTAIN SYSTEM DURING WORKING HOURS OF ALL TRADES. COST OF ENERGY WILL BE PAID FOR BY OWNER. PROVIDE ALL REQUIRED MAINTENANCE, INCLUDING LAMPS AND SOCKETS.
- QUALITY ASSURANCE: 1) QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS, FREE FROM DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES, INC., OR OTHER NATIONALLY APPROVED TESTING AGENCIES AND BEARING THEIR LABEL. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED; 2) GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AS DEFINED IN PARAGRAPH 2.C.3; CURRENT CHARACTERISTICS: A SERVICE: 120/208 VOLT (AND 120/208 VOLT), 3 PHASE, 4 WIRE, 60 HERTZ WITH GROUNDED NEUTRAL; B. DISTRIBUTION: 120/208 VOLT, 3 PHASE, 4 WIRE, 60 HERTZ WITH GROUNDED NEUTRAL; C. OUTLET AND DATA HEIGHTS TO BE VERIFIED WITH CONTRACTOR'S PLAN (FRANCHISE: UNLESS OTHERWISE SPECIFIED BY ARCHITECT) A. FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS FOR: RECEPTACLES AND TELEPHONES: 4'-6" - WALL SWITCHES: 3'-7" - WALL FIXTURES: 7'-0" - MOTOR CONTROLLERS: 6'-0" - STEEL LIGHTS: 6'-8" OR 6'-0" BELOW CEILING (WHICHEVER IS LOWER); B. 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CONDUIT TRENCHING DETAILS | 4



GROUND MOUNTED FLOOD LIGHT	2
NTS	E002



**** NOTE ****

GC TO COORDINATE WITH SIGN VENDOR TO DETERMINE IF SIGN IS
GROUND ILLUMINATED OR INTERNALLY ILLUMINATED. IF
INTERNALLY ILLUMINATED, DELETE GROUND MOUNTED LIGHTS AND
KEEP SIGN CIRCUIT.

GENERAL NOTES

- A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.
- B. SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.
- C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.
- D. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.
- E. VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.
- F. PROVIDE PHOTOCELL CONTROL, THROUGH THE LIGHTING CONTROL PANEL FOR ALL EXTERIOR LIGHTING AND SIGNAGE. COORDINATE ALL SETTINGS WITH OWNER.
- G. ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE THE EXACT LOCATIONS OF ALL UTILITY COMPANY CONNECTION POINTS AND REQUIREMENTS. VERIFY ALL REQUIREMENTS WITH LOCAL UTILITY COMPANIES.

PLAN NOTES:

1. PROPOSED LOCATION OF UTILITY TRANSFORMER:
ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD PER LOCAL UTILITY COMPANY SPECIFICATIONS. PROTECTION BOLLARDS SHALL BE BY GENERAL CONTRACTOR. FINAL LOCATION SHALL BE AS DETERMINED BY LOCAL UTILITY COMPANY.
2. PROVIDE (2) 4" CONDUITS TO UTILITY EASEMENT FOR PRIMARY ELECTRIC CABLEING, COORDINATE EXACT LOCATION AND ROUTING WITH UTILITY COMPANY. PRIMARY ELECTRIC CABLE INSTALLATIONS, TERMINATIONS, ETC. BY UTILITY COMPANY.
3. PROVIDE CONDUIT AND SECONDARY SERVICE CONDUCTORS FOR ELECTRICAL SERVICE. SEE RISER DIAGRAM FOR CONDUIT AND FEEDER SIZES.
4. PROPOSED LOCATION OF ELECTRICAL SERVICE EQUIPMENT.
5. PROVIDE (2) 4" CONDUITS AND (12") CONDUIT WITH PULL STRING FOR INCOMING TELECOMMUNICATIONS SERVICES. FIELD VERIFY CONDUIT BUILDING ENTRANCE LOCATION AND ROUTING WITH BUILDING PRIOR TO BID. COORDINATE ALL REQUIREMENTS WITH OWNER/ARCHITECT AND SERVING UTILITY.
6. PROVIDE WEATHERPROOF JOOPER BOX FOR A TWIN HEAD LIGHT. INSTALL COOPER FT889, FIXTURE WITH MOTION SENSOR, CONFIRM EXACT LOCATION WITH ARCHITECT / OWNER PRIOR TO ROUGH-IN.
7. PROVIDE WP JUNCTION BOX AND 120V CONNECTION FOR POWER TO MONUMENT SIGN. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
8. PROVIDE (1) 1" CONDUIT FROM IRRIGATION CONTROLLER BOX TO THE OUTSIDE EDGE OF THE BUILDING PERIMETER. SIGNAL/CABLE COORDINATION WITH CIVIL AND LANDSCAPE IRRIGATION PLANS.



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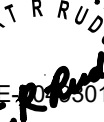
☐ 10/17/02 ☐ OWNER REVIEWED PLANS & ELEVATIONS ☐ 05/25/03 ☐ PERMIT DUE
☐ 03/01/03 ☐ OWNER REVIEWED APPLIC. TO LOCAL AGENCY ☐ 05/25/03 ☐ CONSTRUCTION
☐ 05/25/03 ☐ OWNER REVIEWED PERMITS ☐ 05/25/03 ☐ RECORD
☐ 05/25/03 ☐ TOWN REVIEW RESUB ELEVATIONS ☐ 05/25/03 ☐

J. C. BAKER, AIA

H I T E C T

SUITE 204, WORTHINGTON, OH 43085 614-436-0555
 email: baker@bakerarchitects.com

ARCHITECTS OF INTERIORS SEAL



Drawn By:	STAFF	
Checked By:	RRR	
Project Number:	23110	
Scale:		AS NOTED

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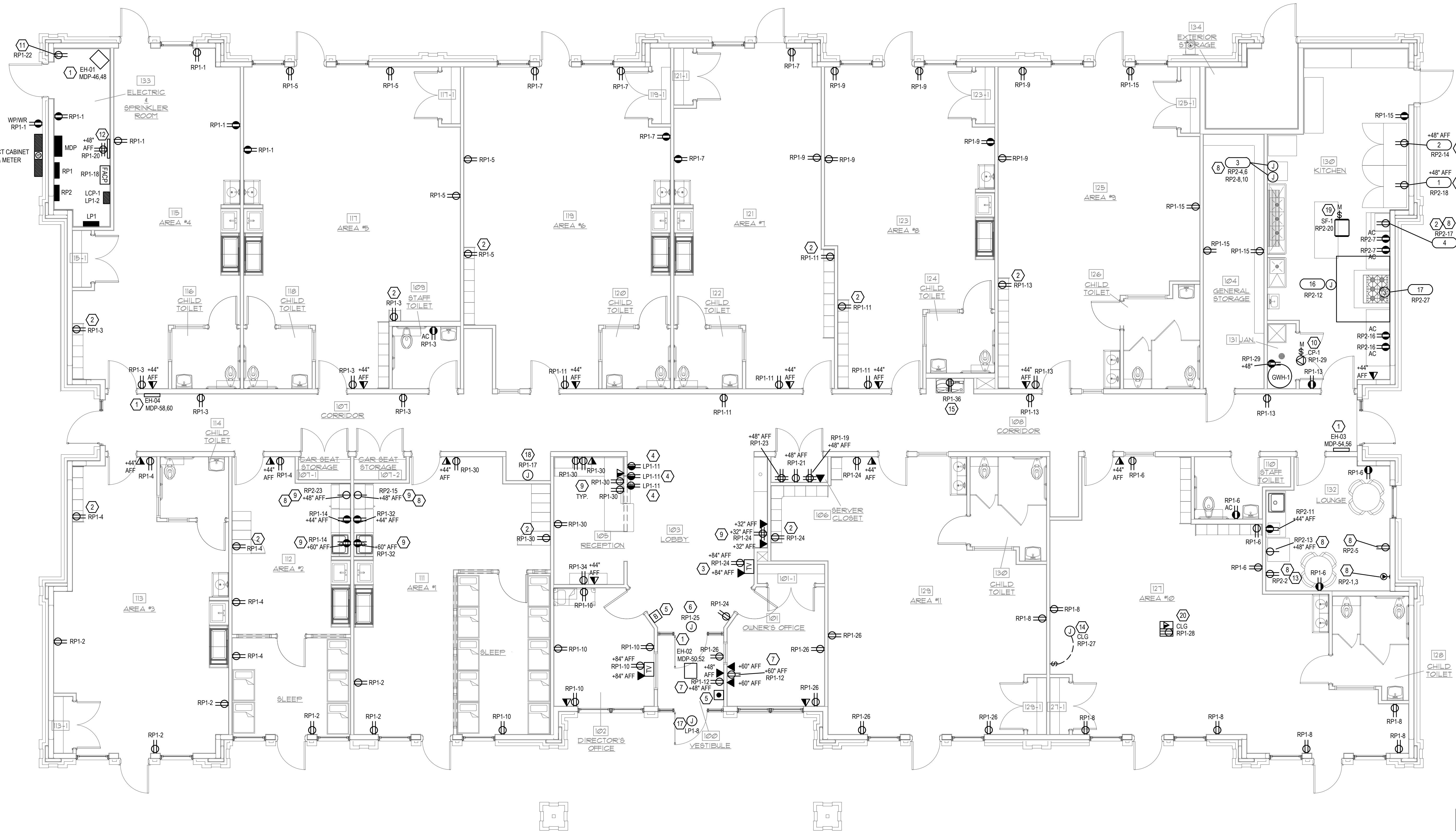
ELECTRICAL SITE PLAN

CONTRACTOR NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD AND TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATENT CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.





MC CABLE SHALL BE PERMITTED IF INSTALLED PER LOCAL CODE AND INSTALLED IN A NEAT AND PROFESSIONAL MANNER.

CONSTRUCTION OPERATIONS AND SITE MUST COMPLY WITH NFPA 1 AND NFPA 241.

LANDLORD/CONTRACTOR SHALL PROVIDE AND INSTALL THREE DEDICATED OUTLETS IN THE SERVER CLOSET. TWO OUTLETS TO BE LOCATED ON BACK WALL AT 60" AFF. THIRD OUTLET TO BE LOCATED ON BACK WALL AT NORMAN HEIGHT.

LANDLORD/CONTRACTOR SHALL PROVIDE AND INSTALL WIRELESS ACCESS POINTS (WAP) POE SYSTEM AND MERAKI SYSTEM (2), AS NEEDED FOR FULL COVERAGE. CONTACT ANNA SWICKLIK 301-625-4229. WWW.CONRES.COM.

GENERAL NOTES:

- ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.
- SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.
- VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.
- VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.
- ALL RECEPTACLES TO BE TAMPER PROOF RECEPTACLES AS REQUIRED PER NEC 406.12.
- SEE SHEET M601 FOR MECHANICAL EQUIPMENT SCHEDULES.
- ARC FLASH HAZARD WARNING MARKINGS SHALL BE PROVIDED ON ELECTRICAL EQUIPMENT LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.16.
- ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT. REQUIRED WORKING SPACE SHALL NOT BE USED FOR STORAGE.
- PROVIDE BONDING OF THE WATER PIPE SYSTEM AT THE WATER HEATER. WATER HEATER SHALL BE JUMPED BETWEEN THE COLD AND HOT WATER PIPES WITH A JUMPER SIZED ACCORDING TO NEC TABLE 250.66.

PLAN NOTES:

- PROVIDE ELECTRICAL CONNECTION TO SERVE MECHANICAL EQUIPMENT. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- E.C. TO MOUNT RECEPTACLE AT 66" A.F.F. COORDINATE WITH MILLWORK ON EXACT MOUNTING LOCATION.
- COORDINATE EXACT LOCATION OF TELEVISION WITH ARCHITECT PRIOR TO ROUGH-IN.
- E.C. SHALL FURNISH AND INSTALL 120V, 20 AMP DUPLEX RECEPTACLE MOUNTED IN SOFFIT FOR LED ROPE LIGHTING POWER SUPPLY. DUPLEX RECEPTACLES SHALL BE CONTROLLED BY SWITCH SHOWN ON SHEET E101 FOR FUTURE "RL". COORDINATE EXACT SWITCH LOCATION AND RECEPTACLE MOUNTING REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
- E.C. TO PROVIDE DOORBELL AT ENTRANCE TO BE MOUNTED AT 42" AFF AND THE CHIME UNIT TO BE MOUNTED AT RECEPTION. COORDINATE EXACT LOCATION OF EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
- CONNECT 120 VOLT TO ALL DOOR ALARMS / LOCKS AS DIRECTED. REFER TO DETAILS ON SHEET E501 FOR ADDITIONAL INFORMATION.
- PROVIDE DOOR CONTROLLER AND MAIN VESTIBULE BOX FOR WALL MOUNTED ACCESS ENTRY MONITOR. REFER TO SHEET E501 FOR ADDITIONAL INFORMATION. COORDINATE INSTALLATION WITH OWNER'S VENDOR FOR FACILITY ACCESS HARDWARE AND SOFTWARE.
- PROVIDE GFCI TYPE CIRCUIT BREAKER FOR THIS CIRCUIT.
- E.C. TO COORDINATE WITH MILLWORK ON EXACT MOUNTING LOCATION OF RECEPTACLE.
- PROVIDE ELECTRICAL CONNECTION AND SAFETY SWITCH TO SERVE PLUMBING EQUIPMENT. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE RECEPTACLE FOR IRRIGATION CONTROLLER LOCATED 5 FEET AFF. REFER TO ELECTRICAL SITE PLAN FOR CONDUIT INFORMATION.
- PROVIDE 24"x48"x3/4" FIRE RATED PLYWOOD BACKBOARD FOR THE MOUNTING OF LOW-VOLTAGE EQUIPMENT. INCLUDE 12"x4"x1/4" COPPER GROUND BAR ON BACKBOARD. BOND GROUND BAR TO THE SERVICE GROUNDING ELECTRODE SYSTEM VIA #4 CU.
- PROVIDE RECEPTACLE FOR FUTURE ICE MAKER.

- PROVIDE J-BOX AND 120V CIRCUIT TO SERVE PROJECTOR SCREEN. VERIFY EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
- INSTALL RECEPTACLE FOR DRINKING FOUNTAIN IN A CONCEALED LOCATION. PROVIDE GFCI TYPE BREAKER FOR THIS CIRCUIT.
- PROVIDE ELECTRICAL CONNECTION AND ACCESSIBLE SAFETY SWITCH TO SERVE MECHANICAL EQUIPMENT. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE 120V CIRCUIT AND CONNECTION TO BUILDING SIGNAGE. COORDINATE EXACT LOCATION OF J-BOX AND VERIFY EXACT REQUIREMENTS WITH SIGN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE WEATHERPROOF J-BOX IF LOCATED OUTSIDE.
- PROVIDE ELECTRICAL CONNECTION FOR ZONO MACHINE. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE GFCI-TYPE BREAKER FOR THIS CIRCUIT.
- PROVIDE 120V CIRCUITRY TO SERVE SF-01. INTERCONNECT FAN WITH KITCHEN HOOD SO THAT WHEN THE HOOD IS ON THE FAN IS ENERGIZED. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS AND EXACT LOCATIONS PRIOR TO ROUGH-IN.
- PROVIDE RECEPTACLE AND DATA IN CEILING FOR PROJECTOR. VERIFY EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.



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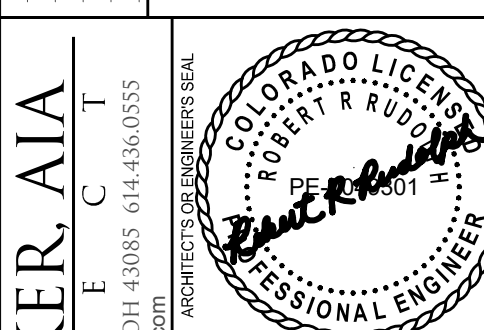
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100	REVISION	06/25/23	REVISION

KIDDIE ACADEMY
EDUCATIONAL CHILD CARE
THE MEADOWS KIDDIE ACADEMY
LOT 6 & B, THE MEADOWS FILING NO. 17, AREA 2
CASTLE ROCK, DOUGLAS COUNTY, COLORADO



Drawn By: **STAFF**
Checked By: **RRR**
Project Number: **23110**
Scale: **AS SHOWN**

E201

POWER PLAN

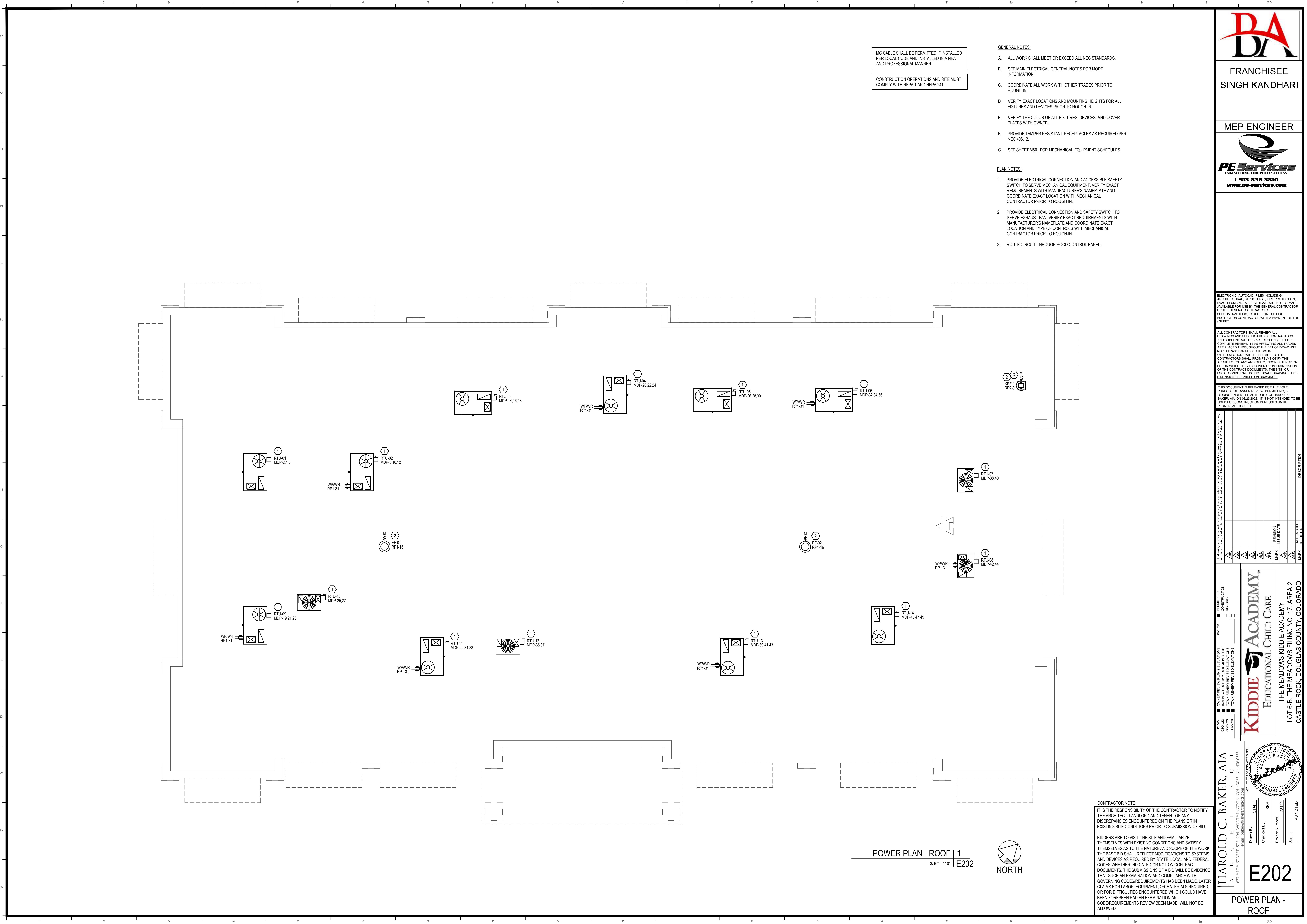
POWER PLAN | 1
3/16" = 1'-0" E201



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MC CABLE SHALL BE PERMITTED IF INSTALLED PER LOCAL CODE AND INSTALLED IN A NEAT AND PROFESSIONAL MANNER.

CONSTRUCTION OPERATIONS AND SITE MUST COMPLY WITH NFPA 1 AND NFPA 241.


- GENERAL NOTES:
- A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.
 - B. SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.
 - C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.
 - D. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.
 - E. VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.
 - F. PROVIDE TAMPER RESISTANT RECEPTACLES AS REQUIRED PER NEC 406.12.
 - G. SEE SHEET M801 FOR MECHANICAL EQUIPMENT SCHEDULES.

- PLAN NOTES:
- 1. PROVIDE ELECTRICAL CONNECTION AND ACCESSIBLE SAFETY SWITCH TO SERVE MECHANICAL EQUIPMENT. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - 2. PROVIDE ELECTRICAL CONNECTION AND SAFETY SWITCH TO SERVE EXHAUST FAN. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION AND TYPE OF CONTROLS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - 3. ROUTE CIRCUIT THROUGH HOOD CONTROL PANEL.

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FRANCHISEE

SINGH KANDHARI

MEP ENGINEER



1-513-836-3810

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20	06/25/23	FOR BIDDING	AK		

HAROLD C. BAKER, AIA

ARCHITECT

673 HIGH STREET, STE. 204, WORTHINGTON, OH 43085-1443

email: hcbaker@hcbakerarchitect.com

Drawn By: STAFF

Checked By: RRR

Project Number: 23110

Scale: AS SHOWN

06/25/23

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KIDDIE ACADEMY

EDUCATIONAL CHILD CARE

THE MEADOWS KIDDIE ACADEMY

LOT 6-B, THE MEADOWS FILING NO. 17, AREA 2

CASTLE ROCK, DOUGLAS COUNTY, COLORADO

06/25/23

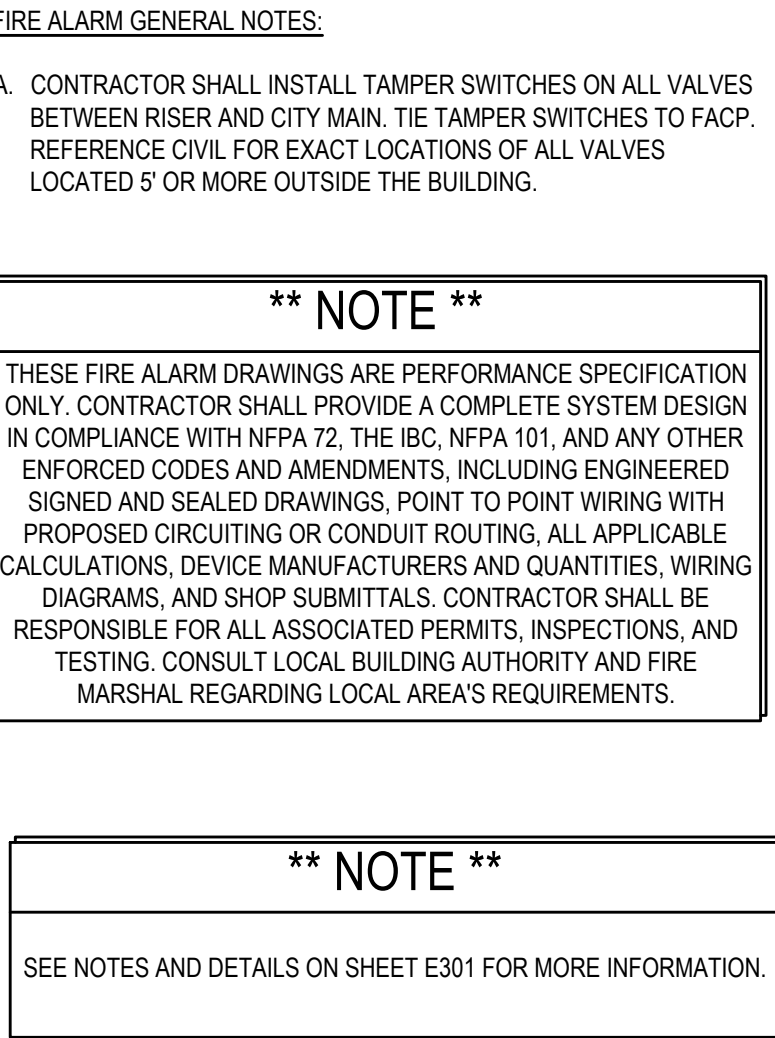
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POWER PLAN - ROOF | 1

3/16" = 1'-0" | E202

NORTH



NORTH

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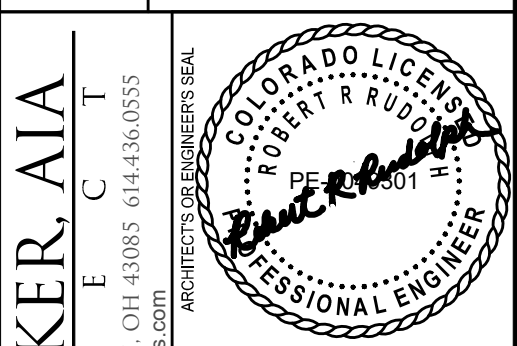
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10/12/23 ☐ OWNER REVIEW PLANS & ELEVATIONS ☐ PERMIT BID
 05/22/23 ☐ OWNER REVIEW PLANS & ELEVATIONS ☐ PERMIT APPLICATION
 05/22/23 ☐ OWNER REVIEW PLANS & ELEVATIONS ☐ RECORD
 05/22/23 ☐ OWNER REVIEW REVISED ELEVATIONS ☐



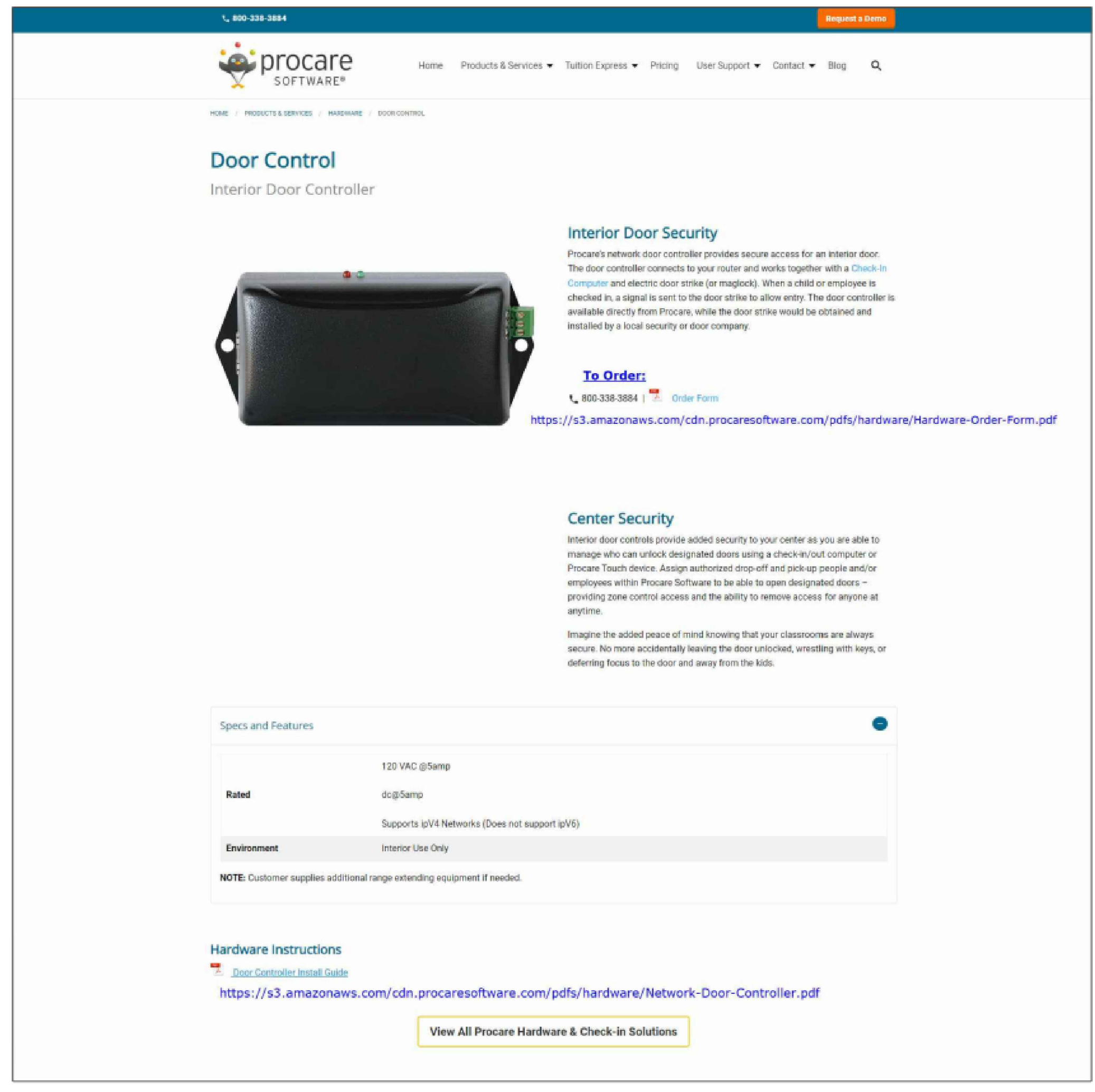
HAROLD C. BAKER A R C H I T E C T 673 HIGH STREET, STE. 204, WORTHINGTON email: baker@bakerarchitects.com	STAFF Drawn By: _____ Checked By: _____ Project Number: 23110 Scale: _____	AS NOTED
	<div style="text-align: center; font-size: 2em; font-weight: bold;">E302</div> <div style="text-align: center; font-weight: bold;">FIRE ALARM PLAN - ROOF</div>	

PROCARE DOOR CONTROL INSTALL INSTRUCTIONS

PLEASE SEE THE FOLLOWING LINK FOR PROCARE'S DETAILED INSTALLATION INSTRUCTION

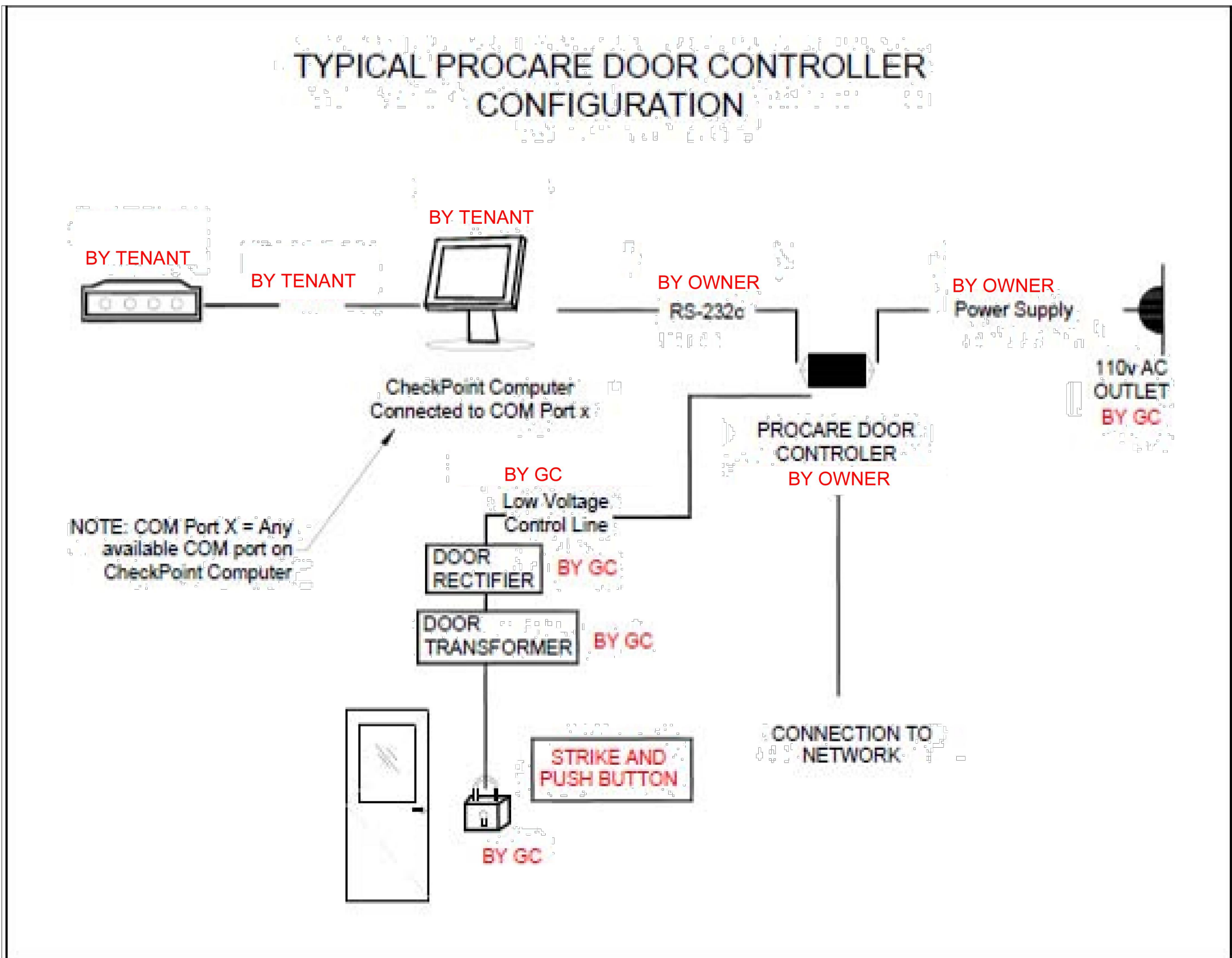
INSTALLATION GUIDE: <https://s3.amazonaws.com/cdn.procaresoftware.com/pdfs/hardware/Network-Door-Controller.pdf>

THE ORDER FORM URL: <https://s3.amazonaws.com/cdn.procaresoftware.com/pdfs/hardware/Hardware-Order-Form.pdf>

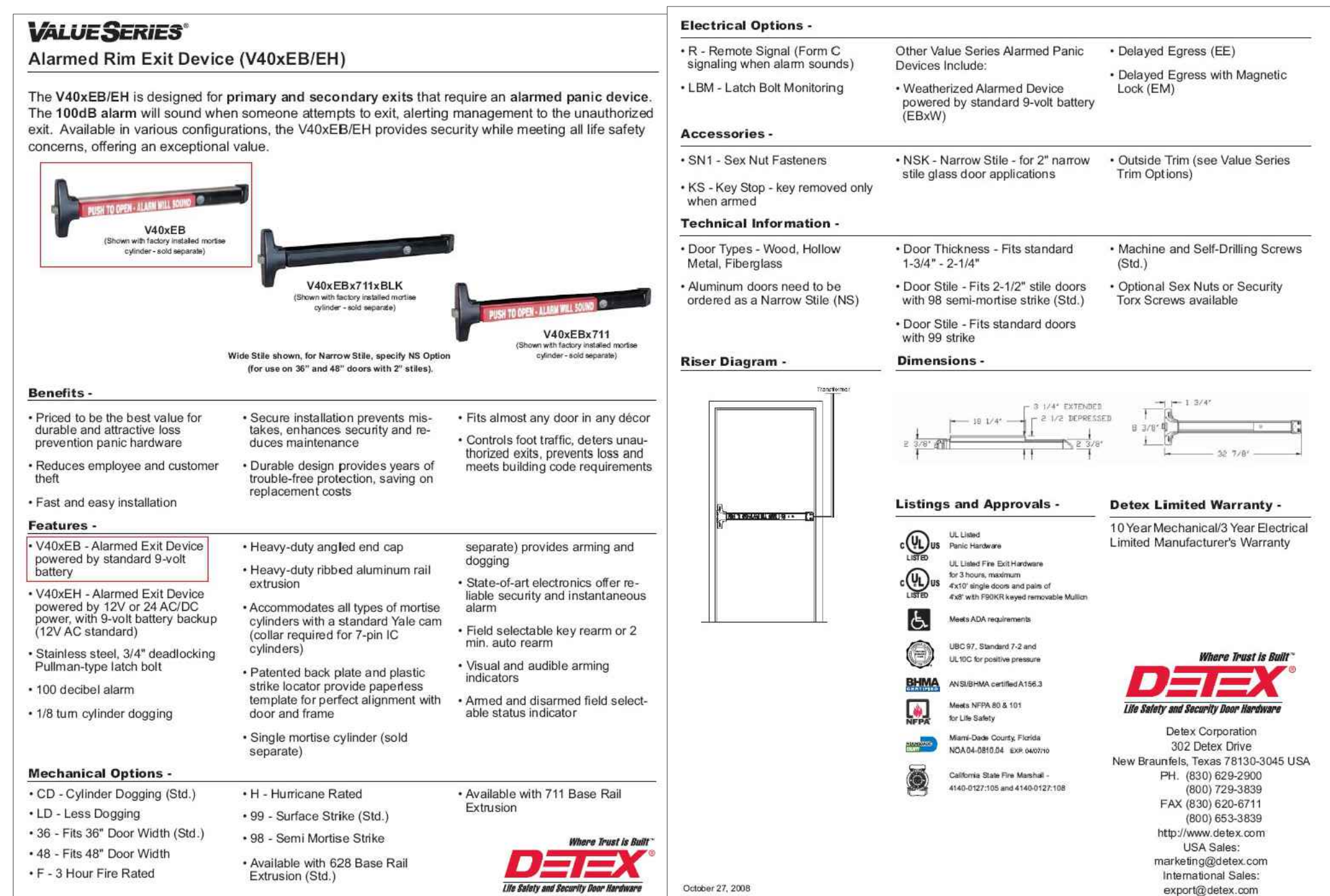


PROCARE DOOR CONTROL | 6
NTS | E501

NOTE: EC TO COORDINATE INSTALLATION OF PROCARE DOOR CONTROLLER WITH OWNER'S VENDOR FOR FACILITY ACCESS HARDWARE AND SOFTWARE.

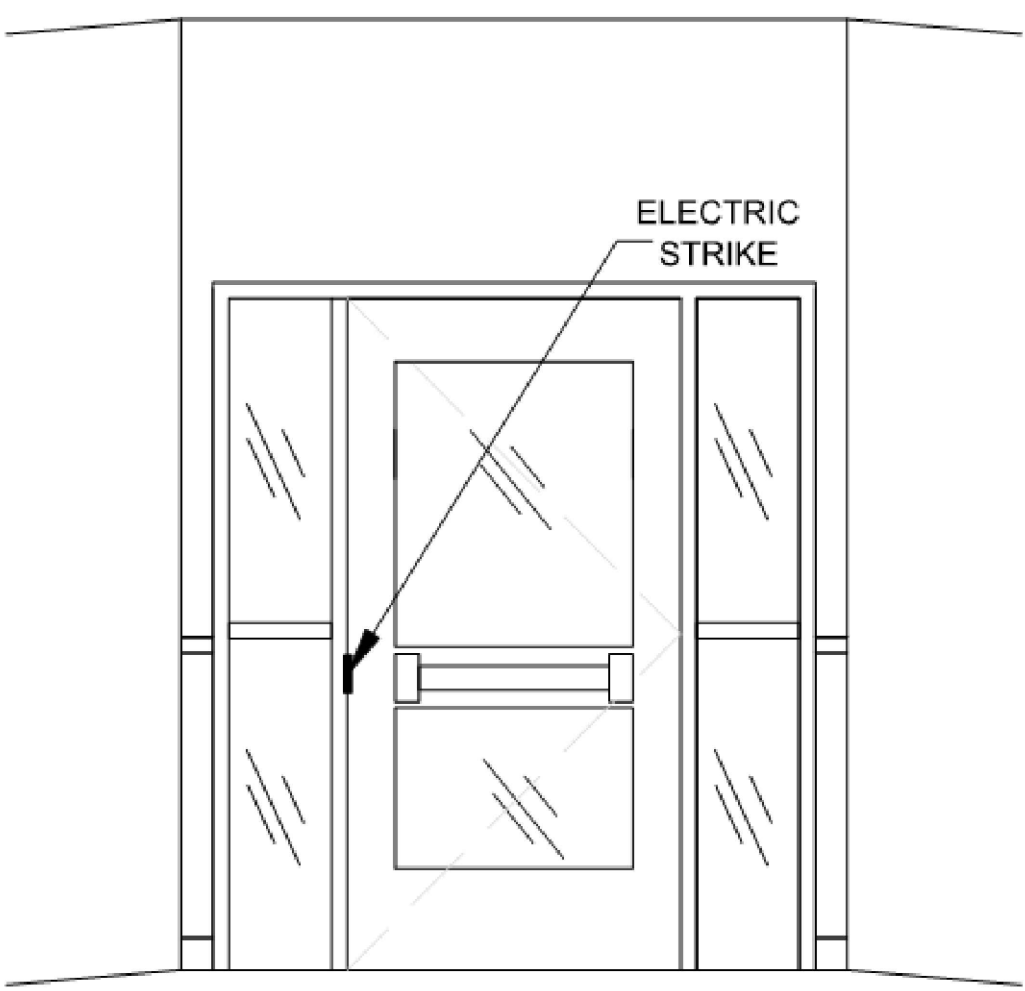


PROCARE DOOR CONTROLLER CONFIGURATION DIAGRAM & INSTRUCTIONS | 5
NTS | E501



PANIC HARDWARE | 4
NTS | E501

NOTE: GC / EC TO COORDINATE INSTALLATION OF MAG LOCK WITH SCHOOL LEADER / PROCARE DOOR CONTROL.



ELECTRIC STRIKE ELEVATION FOR MAIN VESTIBULE DOORS | 3
NTS | E501



MAIN VESTIBULE BOX FOR WALL MOUNTED ACCESS ENTRY MONITOR | 2
NTS | E501



RECESSED BOX FOR DATA & ELEC. TYP. IN OWNER'S OFFICE | 1
NTS | E501

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FRANCHISEE
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LIGHTING CONTROL PANEL - CONTROL SCHEDULE				
LCP-1	THIS LIGHTING CONTROL PANEL SHALL BE GREENGATE PROVIDE WITH		LITEKEEPER LK 16 12	(OR EQUAL) RELAYS
CIRCUIT TAG	DESCRIPTION OF CIRCUIT / AREAS OR ROOMS THAT ARE INCLUDED		VOLTAGE	CONTROLLED VIA
LP1-4	MONUMENT SIGN		120	LIGHTING CONTROL PANEL / PHOTOCCELL
LP1-6	DUMPSTER FLOOD LGT		120	LIGHTING CONTROL PANEL / PHOTOCCELL
LP1-8	BUILDING SIGN		120	LIGHTING CONTROL PANEL / MANUAL
LP1-10,12	SITE LIGHTING		208	LIGHTING CONTROL PANEL / PHOTOCCELL
LP1-11	ENTRY & CORRIDOR LGT		120	LIGHTING CONTROL PANEL / MANUAL
LP1-13	EXTERIOR LGT		120	LIGHTING CONTROL PANEL / PHOTOCCELL
	SPARE			
	SPARE			
	SPARE			
	SPARE			
NOTES: PROVIDE LIGHTING CONTROL PANELS AS LISTED ABOVE (OR EQUAL). PROVIDE WITH THE NUMBER OF RELAYS INDICATED ABOVE. COORDINATE WITH OWNER FOR ADDITIONAL CIRCUITS TO BE CONTROLLED PROVIDE SYSTEM START-UP, PROGRAMMING AND TRAINING FOR THE OWNER.				

ALL OTHER LIGHTING CIRCUITRY - CONTROL SCHEDULE				
CIRCUIT TAG	DESCRIPTION OF CIRCUIT / AREAS OR ROOMS THAT ARE INCLUDED		VOLTAGE	CONTROLLED VIA
LP1-1	INTERIOR LGT		120	OCCUPANCY SENSORS / MANUAL SWITCH
LP1-3	INTERIOR LGT		120	OCCUPANCY SENSORS / MANUAL SWITCH
LP1-5	INTERIOR LGT		120	OCCUPANCY SENSORS / MANUAL SWITCH
LP1-7	INTERIOR LGT		120	OCCUPANCY SENSORS / MANUAL SWITCH
LP1-9	INTERIOR LGT		120	OCCUPANCY SENSORS / MANUAL SWITCH

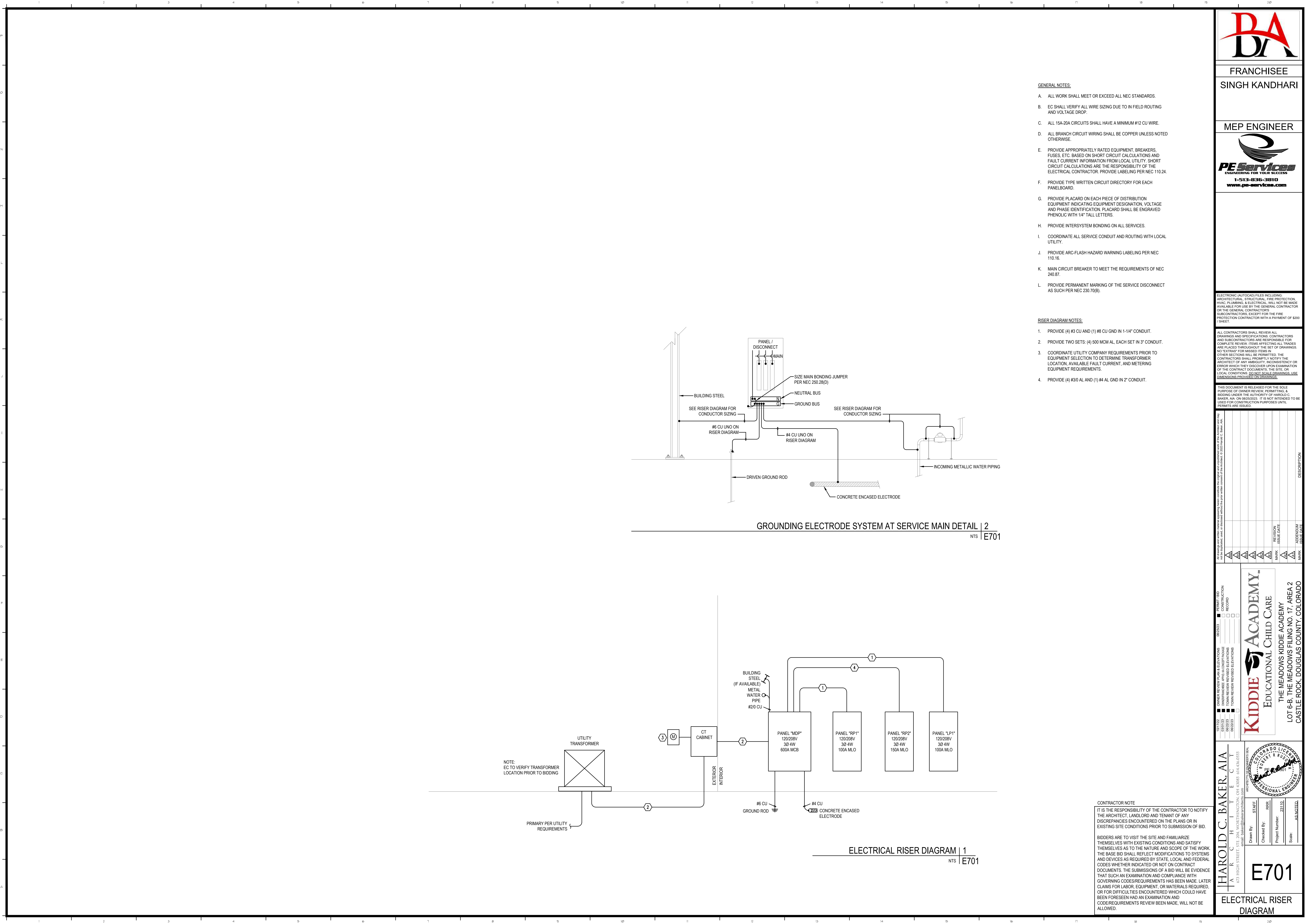
PANEL - MDP				PANELBOARD SCHEDULE									
				CONNECTED LOAD (VA)									
LOAD SERVED	OKT No.	OKT BKR	WYE	LOAD	PHASE			LOAD	WYE	OKT BKR	LOAD SERVED		
	1	9		10040	A	B	C	1825	3	2			
PANEL RP1	3	100	9	11784				1825	3	30	RTU-01		
	5	9	9	10071				1825	3	6			
	7	9	9	11620				2306	3	8			
PANEL RP2	9	150	9	11233				2306	3	10	RTU-02		
	11	9	9	9453				2306	3	12			
	13	9	9	5386				2306	3	14			
PANEL LP1	15	100	9	4156				2306	3	16	RTU-03		
	17	9	9	3245				2306	3	18			
	19	3	3	1825				1825	3	20			
RTU-09	21	30	3	1825				1825	3	30	RTU-04		
	23	3	3	1825				1825	3	24			
RTU-10	25	20	3	1265				1825	3	26			
	27	3	3	1265				1825	3	30	RTU-05		
	29	3	3	1825				1825	3	30			
RTU-11	31	30	3	1825				2306	3	32			
	33	3	3	1825				2306	3	30	RTU-06		
	35	3	3	1265				2306	3	36			
RTU-12	37	20	3	1265				1265	3	38			
	39	3	3	2306				1265	3	40	RTU-07		
RTU-13	41	30	3	2306				1265	3	42	RTU-08		
	43	3	3	2306				1265	3	44			
	45	3	3	2306				1500	3	46			
RTU-14	47	30	3	2306				1500	3	20	EH-01		
	49	3	3	2306				2000	3	50	EH-02		
BLANK SPACE	51							2000	3	52			
BLANK SPACE	53							1000	3	15	EH-03		
BLANK SPACE	55							1000	3	56			
BLANK SPACE	57							1000	3	58			
BLANK SPACE	59							1000	3	15	EH-04		
				VOLTAGE: 120/208				MAIN TYPE: MCB					
				PHASE: 3				OCP = 600					
				WIRE: 4				FEED-THRU LUGS: NO					
NEC LOAD ANALYSIS				TYPE									
CONTINUOUS	1	12536	125%	15670	TOTAL PHASE A				56700				
RECEPTACLE	2	18960	TABLE 220.44	14480	TOTAL PHASE B				55807				
HVAC EQUIPMENT	3	88548	100%	88548	TOTAL PHASE C				49452				
NONCOINCIDENT	4	0	0%	0									
MISC EQUIPMENT	5	20045	100%	20045	CONNECTED LOAD (VA)				161959				
KITCHEN EQUIPMENT	6	21870	70%	15309	CONNECTED LOAD (A)				450				
MOTOR	7	0	100%	0									
LARGEST MOTOR			25%	0	DEMAND LOAD (VA)				154052				
DWELLING UNIT	8	0			DEMAND LOAD (A)				428				
PANEL FEEDER	9	*											
* SEE THAT PANEL SCHEDULE FOR ITS SUMMARY													

PANEL - RP2				PANELBOARD SCHEDULE							
				CONNECTED LOAD (VA)							
LOAD SERVED	OKT BKR	OKT	WYE	PHASE			LOAD	WYE	OKT BKR	OKT	LOAD SERVED
				A	B	C					
** LOUNGE DRYER	1	30	5	2500			1800	6	20	2	** FUTURE ICE MAKER
		3	5	2500			2517	6	35	4	** 3 - DISHWASHER
**LOUNGE WASHER	5	20	5	1500			2517	6			
RECEPTACLE	7	20	2	360			3000	6	40	8	** 3 - DISHWASHER BOOSTER
KEF-01	9	20	3	1176			3000	6		10	
LOUNGE REC	11	20	6	180			864	5	20	12	16 - HOOD LGT & CNTRL
**LOUNGE REFRIGERATOR	13	20	6	1200			1584	6	20	14	**2 - KITCHEN FREEZER
** REFRIGERATOR	15	20	6	1200			360	2	20	16	RECEPTACLE
** 4 - KITCHEN MICROWAVE	17	20	6	1608			1584	6	20	18	** 1 - KITCHEN REFRIG.
BLANK SPACE	19						1176	3	20	20	SF-1
BLANK SPACE	21									22	BLANK SPACE
** REFRIGERATOR	23	20	6	1200						24	BLANK SPACE
SHUNT TRIP	25									26	BLANK SPACE
17 - GAS RANGE	27	20	6	480						28	BLANK SPACE
BLANK SPACE	29									30	BLANK SPACE
				VOLTAGE: 120/208				MAIN TYPE: MLO			
				PHASE: 3				OCP = 150			
				WIRE: 4				FEED-THRU LUGS: NO			
NEC LOAD ANALYSIS											
	WYE										
CONTINUOUS	1	0	125%	0				TOTAL PHASE A		11620	
RECEPTACLE	2	720	TABLE 220.44	720				TOTAL PHASE B		11233	
HVAC EQUIPMENT	3	2352	100%	2352				TOTAL PHASE C		9453	
NONCOINCIDENT	4	0	0%	0							
MISC EQUIPMENT	5	7364	100%	7364			CONNECTED LOAD (VA)			32306	
KITCHEN EQUIPMENT	6	21870	65%	14215			CONNECTED LOAD (A)			90	
MOTOR	7	0	100%	0							
LARGEST MOTOR			25%	0				DEMAND LOAD (VA)		24651	
DWELLING UNIT	8	0						DEMAND LOAD (A)		68	
PANEL FEEDER	9	*									
* SEE THAT PANEL SCHEDULE FOR ITS SUMMARY											
** PROVIDE GFCI BREAKER											

PANEL - LP1				PANELBOARD SCHEDULE									
				CONNECTED LOAD (VA)									
LOAD SERVED	OKT No.	OKT BKR	WYE	LOAD	PHASE			LOAD	WYE	OKT No.	OKT BKR	LOAD SERVED	
					A	B	C						
INTERIOR LTG	1	20	1	1507				250	5	20	2	LCP-1	
INTERIOR LTG	3	20	1	1417				1240	1	20	4	MONUMENT SIGN	
INTERIOR LTG	5	20	1	1539				25	1	20	6	DUMPSTER FLOOD LGT	
INTERIOR LTG	7	20	1	1273				1200	1	20	8	BUILDING SIGN	
INTERIOR LTG	9	20	1	711				788	1	20	10	SITE LIGHTING	
ENTRY & CORRIDOR LGT	11	20	1	893				788	1	20	12		
EXTERIOR LGT	13	20	1	1156						20	14	SPARE	
BLANK SPACE	15										16	BLANK SPACE	
BLANK SPACE	17										18	BLANK SPACE	
BLANK SPACE	19										20	BLANK SPACE	
				VOLTAGE: 120/208				MAIN TYPE: MLO					
				PHASE: 3				OCP = 100					
				WIRE: 4				FEED-THRU LUGS: NO					

NEC LOAD ANALYSIS											
	TYPE										
CONTINUOUS	1	12536	125%	15670				TOTAL PHASE A	5386		
RECEPTACLE	2	0	TABLE 220.44	0				TOTAL PHASE B	4156		
HVAC EQUIPMENT	3	0	100%	0				TOTAL PHASE C	3245		
NONCOINCIDENT	4	0	0%	0							
MISC EQUIPMENT	5	250	100%	250				CONNECTED LOAD (VA)	12786		
KITCHEN EQUIPMENT	6	0	80%	0				CONNECTED LOAD (A)	35		
MOTOR	7	0	100%	0							
LARGEST MOTOR			25%	0				DEMAND LOAD (VA)	15920		
DWELLING UNIT	8	0						DEMAND LOAD (A)	44		
PANEL FEEDER	9	*									
* SEE THAT PANEL SCHEDULE FOR ITS SUMMARY											
** PROVIDE GFCI BREAKER											

LUMINAIRE SCHEDULE									
TAG	MANUFACTURER	MODEL NUMBER	VOLTS	LAMPS	INPUT WATTS	MOUNTING	DESCRIPTION		NOTES
EXIT / EMERGENCY EGRESS FIXTURES									
X1	BARRON LIGHTING GROUP	VLED-U-WH-EL90	120	INCLUDED	(2)1.1,2.2	UNIVERSAL	(2) HEAD EXIT / EMERGENCY FIXTURE - WITH BATTERY BACK-UP		
X2	BARRON LIGHTING GROUP	VLED-U-WH-EL90-R	120	INCLUDED	(2)1.1,2.2	UNIVERSAL	(2) HEAD EXIT / EMERGENCY FIXTURE - WITH BATTERY BACK-UP WITH REMOTE CAPABILITY		
ER	BARRON LIGHTING GROUP	MLED-2-W-WP	9.6	INCLUDED	(2)1.5.3	UNIVERSAL	WEATHERPROOF (2) HEAD REMOTE EMERGENCY FIXTURE		
EM	BARRON LIGHTING GROUP	LED-52-2W-WH-G2	120	INCLUDED	(2)2.4	UNIVERSAL	(2) HEAD EMERGENCY EGRESS FIXTURE - WITH BATTERY BACK-UP		
COMMON SPACE FIXTURES									
A	METALUX	244C-LDS-44-UNV-L835-CD1-U	120	LED	38	RECESSED	2x4 LED TROFFER		E.C. SHALL INCLUDE 2 #18 AWG, 0-10V WIRING FROM 0-10V DIMMER SWITCH ON WALL DASH OWNED BETWEEN EACH FIXTURE WHEREVER DIMMER IS SHOWN.
B	METALUX	224C-LDS-23-UNV-L835-CD1-U	120	LED	20	RECESSED	2x2 LED TROFFER		
C	ECOSCEENCE	JMA-RT-WH / JMA-MOD-35-OP1 / JMA-45 / JMA-RH-12	120	LED	19	RECESSED	4" LED DOWNLIGHT		
G	PORTFOLIO	MD6-T30-6501W-WF	120	MH	70	RECESSED	6" CANOPY DOWNLIGHT		
G1	CREE LIGHTING	LAMP-LR6-18L-35K-DR1RCB-GU24 HOUSING-RGB-12W-GU24	120	LED	20	RECESSED	6" LED DOWNLIGHT		
RL	US LED SUPPLY	6X 24V RGB FLEXIBLE LED STRIP 16' ROLL (5060 30/M 150(ROLL) UN- COATED (NON WATERPROOF) 1X RGB IN WALL TOUCH CONTROLLER (COLOR WHEEL BLACK) 1X RGB LED AMPLIFIER 8A/CH 1X MEAN WELL POWER SUPPLY 12V 324 W 27A LF 18 4 POWER CABLE (18 AWG) WIRE ENOUGH TO RUN FROM POWER SUPPLY TO EACH OF THE 4 CORNERS OR 2 OPPOSITE CORNERS) LF 22 4 POWER CABLE (22 AWG WIRE) (ENOUGH TO RUN FROM THE POWER SUPPLY DOWN TO THE CONTROLLER AND BACK UP TO THE AMP OR YOU COULD USE 1X6 CONDUCTOR WIRE INSTEAD OF 2 OF THESE)	120	LED	96	SURFACE	LENGTH AS NEEDED IN FRONT LOBBY. EC SHALL CONTACT US LED SUPPLY @ 724-264-5001 410 WOODLAND RD. MERCER, PA 16137 NO ALTERNATES OR EXCEPTIONS ON THIS FIXTURE. RATED 2.25W / FT		E.C. SHALL CONTACT US LED SUPPLY @ (724) 264-5001, 410 WOODLAND RD. MERCER, PA 16137 NO ALTERNATIONS OR EXCEPTIONS ON THIS FIXTURE.
H	FC LIGHTING	FCW32B2-120 LED-4K-750-BZ	120	LED	30	WALL	DECORATIVE EXTERIOR WALL FIXTURE. MOUNT BELOW EIFS TRIM.		
PD1	KUZZCO LIGHTING	KUZ1882563	120	LED	154	PENDANT	CERCHIO LED 3-TIER CHANDELIER		
P3	COOPER	GLEON-AF-04-LED-E1-SL83-BZ-HSS	208	LED	225	POLE	SINGLE HEAD, TYPE 3 DISTRIBUTION WITH SPILL CONTROL AND HOUSE SHIELD		FIXTURE TO BE MOUNTED AT 23'-0"
P5	COOPER	GLEON-S44C-740-U-SWQ-BZ	208	LED	225	POLE	SINGLE HEAD, TYPE 5 WIDE DISTRIBUTION		FIXTURE TO BE MOUNTED AT 23'-0"
S	LITHONIA	CLX-L48-3000M-M-SEF-FDL-MVOLT-120-35K-80CRI-PLR1G-WH	120	LED	20	WALL	4" COMPACT LOW PROFILE STRIP		
S1	COOPER	FT285SL	120	LED	20	SURFACE	TWIN HEAD OUTDOOR FLOODLIGHT		
W	EATON	NFFLD-S-C70-KNC-UNV	120	LED	26	GROUND	MONUMENT SIGN LIGHTING		
WP1	COOPER	XTOR3B	120	LED	26	WALL	WALL PACK		
ALL FIXTURES MAY NOT APPLY EC SHALL CONFIRM MOUNTING HEIGHTS OF ALL FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN. EC SHALL COORDINATE DIMENSIONED LOCATIONS OF ALL FIXTURES WITH ARCHITECT'S DRAWINGS PRIOR TO ROUGH-IN. EC SHALL PROVIDE ALL NECESSARY HARDWARE/INSTALLATION TO MAINTAIN THE INTEGRITY OF FIRE RATED ASSEMBLIES IN WHICH FIXTURES ARE INSTALLED. B.O.F. = BOTTOM OF FIXTURE									



GENERAL NOTES:

- A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.
- B. EC SHALL VERIFY ALL WIRE SIZING DUE TO IN FIELD ROUTING AND VOLTAGE DROP.
- C. ALL 15A-20A CIRCUITS SHALL HAVE A MINIMUM #12 CU WIRE.
- D. ALL BRANCH CIRCUIT WIRING SHALL BE COPPER UNLESS NOTED OTHERWISE.
- E. PROVIDE APPROPRIATELY RATED EQUIPMENT, BREAKERS, FUSES, ETC. BASED ON SHORT CIRCUIT CALCULATIONS AND FAULT CURRENT INFORMATION FROM LOCAL UTILITY. SHORT CIRCUIT CALCULATIONS ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE LABELING PER NEC 110.24.
- F. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY FOR EACH PANELBOARD.
- G. PROVIDE PLACARD ON EACH PIECE OF DISTRIBUTION EQUIPMENT INDICATING EQUIPMENT DESIGNATION, VOLTAGE AND PHASE IDENTIFICATION. PLACARD SHALL BE ENGRAVED PHENOLIC WITH 1/4" TALL LETTERS.
- H. PROVIDE INTERSYSTEM BONDING ON ALL SERVICES.
- I. COORDINATE ALL SERVICE CONDUIT AND ROUTING WITH LOCAL UTILITY.
- J. PROVIDE ARC-FLASH HAZARD WARNING LABELING PER NEC 110.16.
- K. MAIN CIRCUIT BREAKER TO MEET THE REQUIREMENTS OF NEC 240.87.
- L. PROVIDE PERMANENT MARKING OF THE SERVICE DISCONNECT AS SUCH PER NEC 230.70(B).

RISER DIAGRAM NOTES:

- 1. PROVIDE (4) #3 CU AND (1) #8 CU GND IN 1-1/4" CONDUIT.
- 2. PROVIDE TWO SETS: (4) 500 MCM AL, EACH SET IN 3" CONDUIT.
- 3. COORDINATE UTILITY COMPANY REQUIREMENTS PRIOR TO EQUIPMENT SELECTION TO DETERMINE TRANSFORMER LOCATION, AVAILABLE FAULT CURRENT, AND METERING EQUIPMENT REQUIREMENTS.
- 4. PROVIDE (4) #3/0 AL AND (1) #4 AL GND IN 2" CONDUIT.



FRANCHISEE

SINGH KANDHARI

MEP ENGINEER



ELECTRONIC (AUTOCAD) FILES INCLUDING: ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, HVAC, PLUMBING, & ELECTRICAL, WILL NOT BE MADE AVAILABLE FOR USE BY THE GENERAL CONTRACTOR OR THE GENERAL CONTRACTOR'S SUBCONTRACTORS, EXCEPT FOR THE FIRE PROTECTION CONTRACTOR WITH A PAYMENT OF \$200 SHEET.

ALL CONTRACTORS SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS. CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR COMPLETE REVIEW. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THE SET OF DRAWINGS. NO "EXTRACT" FOR ISSUED ITEMS IN OTHER SECTIONS WILL BE PERMITTED. THE CONTRACTORS SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY AMBIGUITY, INCONSISTENCY OR ERROR WHICH THEY DISCOVER UPON EXAMINATION OF THE CONTRACT DOCUMENTS, THE SITE, OR LOCAL CONDITIONS. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED ON DRAWINGS.

THIS DOCUMENT IS RELEASED FOR THE SOLE PURPOSE OF OWNER REVIEW, PERMITTING, & BIDDING UNDER THE AUTHORITY OF HAROLD C. BAKER, AIA, ON 06/25/2023. IT IS NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES UNTIL PERMITS ARE ISSUED.

NO.	REVISION	DATE	BY	DESCRIPTION
1	ISSUED FOR PERMIT	06/25/23	BA	ISSUED FOR PERMIT
2	FOR BIDDING	06/25/23	BA	FOR BIDDING
3	FOR RECORD	06/25/23	BA	FOR RECORD
4	FOR CONSTRUCTION	06/25/23	BA	FOR CONSTRUCTION

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COMcheck Software Version 4.1.5.6

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
103.2 PR42	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input checked="" type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
103.2 PR81	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input checked="" type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 PR93	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input checked="" type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)
2 Medium Impact (Tier 2)
3 Low Impact (Tier 3)

Project Title: KIDDIE ACADEMY

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Report Date: 08/16/23

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3 C408.2.5 2 [F117]†	Furnished OEM instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F118]†	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [F119]†	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 [F15]†	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 1 [F116]†	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F13]†	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1

high Impact (Tier 1)

2

Medium Impact (Tier 2)

3

Low Impact (Tier 3)

Project Title: KIDDLE ACADEMY
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Report date: 08/16/23
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