PROJECT CONTACT LIST

OWNER:

- ORCHARD VIEW SCHOOL
- 35 S SHERIDAN DR
- MUSKEGON, MI
- CONTACT: EARL SCHAUB - PHONE: 231-760-9889

ARCHITECT:

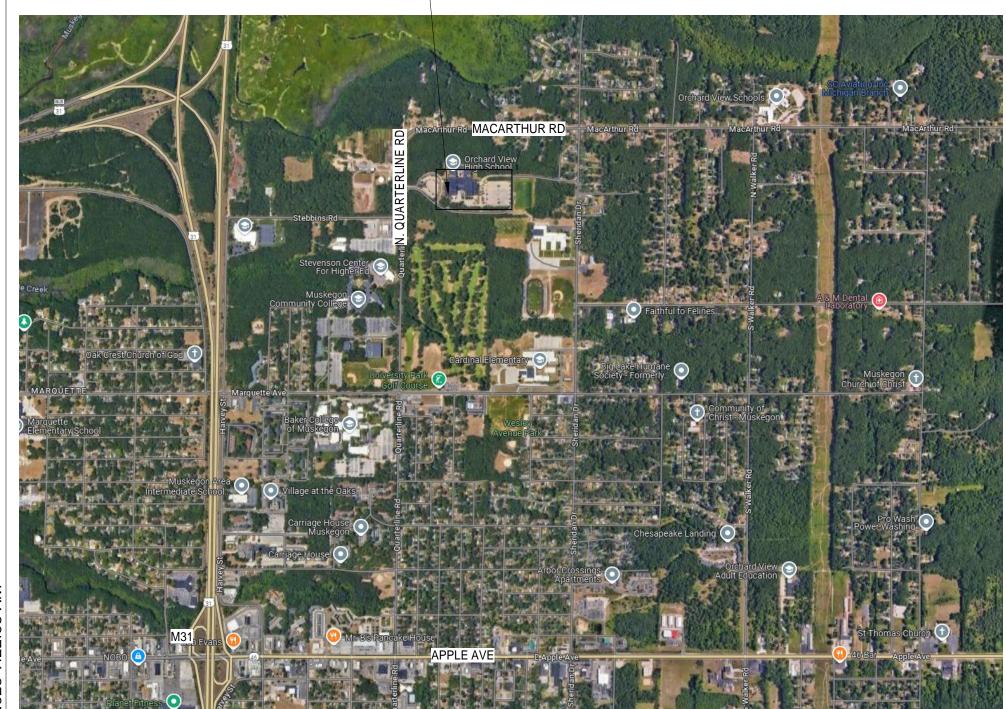
- COLLIERS ENGINEERING & DESIGN
- 560 5TH ST, STE 305
- GRAND RAPIDS, MI - CONTACT: BUDDY HUYLER
- PHONE: 616-848-6969

ELECTRICAL ENGINEER:

- COLLIERS ENGINEERING & DESIGN
- 560 5TH ST, STW 305 GRAND RAPIDS, MI
- CONTACT: ANGELA ROBINSON

PROJECT LOCATION MAP

PROJECT LOCATION



DRAWING INDEX

G000	COVER SHEET
E001	LEGEND
ED101A	FIRST FLOOR - DEMOLITION LIGHTING - ZONE A
ED101B	FIRST FLOOR - DEMOLITION LIGHTING - ZONE B
ED101C	FIRST FLOOR - DEMOLITION LIGHTING - ZONE C
ED101D	FIRST FLOOR - DEMOLITION LIGHTING - ZONE D
ED101E	FIRST FLOOR - DEMOLITION LIGHTING - ZONE E
ED102A	SECOND FLOOR - DEMOLITION LIGHTING - ZONE A
ED102B	SECOND FLOOR - DEMOLITION LIGHTING - ZONE B
ED102C	SECOND FLOOR - DEMOLITION LIGHTING - ZONE C
ED102D	SECOND FLOOR - DEMOLITION LIGHTING - ZONE D
ED102E	SECOND FLOOR - DEMOLITION LIGHTING - ZONE E
ED103E	THIRD FLOOR - DEMOLITION LIGHTING - ZONE E
E101A	FIRST FLOOR LIGHTING PLAN - ZONE A
E101B	FIRST FLOOR LIGHTING PLAN - ZONE B
E101C	FIRST FLOOR LIGHTING PLAN - ZONE C
E101D	FIRST FLOOR LIGHTING PLAN - ZONE D
E101E	FIRST FLOOR LIGHTING PLAN - ZONE E
E102A	SECOND FLOOR LIGHTING PLAN - ZONE A
E102B	SECOND FLOOR LIGHTING PLAN - ZONE B
E102C	SECOND FLOOR LIGHTING PLAN - ZONE C
E102D	SECOND FLOOR LIGHTING PLAN - ZONE D
E102E	SECOND FLOOR LIGHTING PLAN - ZONE E
E103E	THIRD FLOOR LIGHTING PLAN - ZONE E
E701	DETAILS
E702	DETAILS
E703	DETAILS
E704	DETAILS
E705	DETAILS
E706	DETAILS
E707	DETAILS
E708	DETAILS
E709	DETAILS
E710	DETAILS
E711	DETAILS
E712	DETAILS
E713	DETAILS

Colliers



ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS 16 N. QUARTERLINE MUSKEGON, MI 49442

DATE DESCRIPTION 01/07/25 BID



ORCHARD VIEW SCHOOLS

01/07/2025



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SECTION 1 - GENERAL REQUIREMENTS
DESCRIPTION OF WORK

WORK SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING: 1. WIRING METHODS. 2. DEVICES.

3. LIGHTING CONTROLS 4. TEMPORARY POWER AND LIGHTING

MATERIALS AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF MBC, NEC, MIOSHA, NFPA, U.L., NEMA, A.D.A., AND RESPECTIVE PUBLICATIONS AND OTHER REQUIREMENTS SPECIFIED BELOW. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER.

<u>CODES AND ORDINANCES</u> COMPLY WITH ALL CODES AND ORDINANCES. BIDDERS SHALL INFORM THEMSELVES OF CODE REQUIREMENTS.

PERMITS, INSPECTION FEES, AND CODES THE CONTRACTOR SHALL OBTAIN AND PAY ALL PERMIT AND INSPECTION FEES. FINAL INSPECTION CERTIFICATES BY THE LOCAL ELECTRICAL INSPECTOR AND FIRE MARSHAL SHALL BE OBTAINED BY THE CONTRACTOR AND TURNED OVER IN DUPLICATE TO THE OWNER.

SUBMISSIONS 1. SUBMIT PRODUCT DATA, SHOP DRAWINGS, WIRING DIAGRAMS, AND DESCRIPTIVE LITERATURE ON ALL MATERIALS AND EQUIPMENT. MAKE SUBMITTALS WITHIN THIRTY (30) DAYS AFTER THE SIGNING OF THE CONTRACT. SHIPMENT SHALL NOT BE RELEASED UNTIL DRAWINGS AND LITERATURE HAVE BEEN FINALLY APPROVED.

	SYMBOL LIST	BOWER			
	LIGHT LINE WEIGHT INDICATES EXISTING ITEMS TO	POWER	MAG. MOTOR STARTER OR CONTACTOR	Q1Q1	NURSE CALL DOME LIGHT (4 LAMP)
	REMAIN OR PROVIDED BY OTHERS. HEAVY LINE WEIGHT INDICATES ITEMS TO BE		COMB. MOTOR STARTER (NON-FUSED)		NURSE CALL EMERG. STATION
	PROVIDED BY E.C.		COMB. MOTOR STARTER (FUSED)	+	NURSE CALL CODE BLUE EMERG. STATIO
	HEAVY DASHED LINE INDICATES ITEMS TO BE REMOVED OR RELOCATED BY E.C.	⊕ <mark>H</mark> ζL <u></u>		+	NURSE CALL DUTY STATION
	LIGHT FIXTURE UPPER CASE LETTERS INDICATE FIXTURE TYPE.		COMBINATION STARTER WITH RESET BUTTON,	+ 🍥 + 🏠	NURSE CALL STAFF STATION NURSE CALL PATIENT PULL STATION
2 LA	REFER TO LUMINAIRE SCHEDULE FOR DETAILS. LOWER CASE LETTERS INDICATE SWITCHING		HAND OPERATED ACTUATOR, AND INDICATOR LIGHT	+	NURSE CALL SINGLE PATIENT STATION
	ARRANGEMENT. NUMBER INDICATES BRANCH CIRCUIT. "EM" OR SHADING INDICATES	Š		+	NURSE CALL DUAL PATIENT STATION
	EMERGENCY LIGHTING.		FUSE SAFETY DISC. SW. (NON-FUSED)		NURSE CALL MASTER STATION NURSE CALL EQUIPMENT CABINET
'X1' 'X1'	EXIT SIGN LIGHT - WALL, CEILING OR PENDANT		25A		NURSE CALL ANNUNCIATOR PANEL
	MOUNTED. LETTERS INDICATE FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE FOR		3P	\$ ^V	
	DETAILS. ARROWS INDICATE DIRECTION. SHADING INDICATES NUMBER OF FACES.		SAFETY DISC. SW. (FUSED)	H T	HUMIDISTAT THERMOSTAT
	EXIT SIGN LIGHT WITH EMERGENCY LIGHT HEADS.		25A 3P	•	TELEPHONE OUTLET BOX TWO GANG JUNCTION BOX WITH 1 " CONI
_	LETTERS INDICATE FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE FOR DETAILS. SHADING		VARIABLE FREQUENCY CONTROLLER		STUBBED TO 6" ABOVE NEAREST ACCESS CEILING, NYLON BUSHING ON CONDUIT E
$\overline{\Delta}$	INDICATES NUMBER OF FACES. DOCK LIGHT				ALL RACEWAYS. ALL CABLING, TERMINAT AND TESTING BY OTHERS.
'T1'⇔ 'T1'⇔	TRACK AND TRACK LIGHT		BUS DUCT WITH PLUG UN DISCONNECT (FUSED)		DATA OUTLET BOX
'TR1'			CONDUIT CONCEALED IN WALL OR OVERHEAD. CONDUIT SHOWN WITHOUT SLASH MARKS		TWO GANG JUNCTION BOX WITH 1 " CONI STUBBED TO 6" ABOVE NEAREST ACCESS
	EMERGENCY LIGHT HEADS - SINGLE HEAD AND DOUBLE HEADS		SHALL CONTAIN 2 #12 & 1#12G CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT		CEILING, NYLON BUSHING ON CONDUIT E ALL RACEWAYS. ALL CABLING, TERMINAT
	EMERGENCY BATTERY LIGHTING UNIT. WIRE		REQUIRES A DIFFERENT SIZE. CONDUIT SHOWN WITH SLASH MARKS SHALL	v	AND TESTING BY OTHERS. COMBINATION TELE/DATA OUTLET BOX
Q	AHEAD OF LOCAL SWITCHING	¥	CONDUCTOR PER SLASH MARKS SHALL CONTAIN 1#12 CONDUCTOR PER SLASH MARK IN 3/4" CONDUIT UNLESS THE CONDUCTOR SIZE AND		TWO GANG JUNCTION BOX WITH 1 " CONI STUBBED TO 6" ABOVE NEAREST ACCESS
	LIGHT ON CORD REEL LIGHT SWITCH 20A, 120/277V		CONDUIT SIZE ARE SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE:		CEILING, NYLON BUSHING ON CONDUIT E ALL RACEWAYS. ALL CABLING, TERMINAT
S	" " SINGLE POLE "K" KEY OPERATION		SHORT STRAIGHT=PHASE CONDUCTOR, LONG STRAIGHT=NEUTRAL CONDUCTOR, SHORT BENT		
	"3" 3-WAY OPERATION "L###" LOW VOLTAGE		ENDED=SWITCH LEGS, LONG STRAIGHT WITH A DOT=GROUND CONDUCTOR.		TELEVISION OUTLET CEILING OR WALL M MULTIPLE SERVICE FLR OUTLET
	"WP" WEATHER PROOF "4" 4-WAY OPERATION		CONDUIT CONCEALED		MULTIOUTLET ASSEMBLY
	"a" SWITCHING ARRANGEMENT "T" TIMER		CONDUIT EXPOSED	9 qqo	CLOCK (WALL MOUNT)
щщ	"P" PILOT LIGHT "OS" DUAL TECHNOLOGY WALL SWITCH	—SR—	SURFACE RACEWAY		UNDERFLOOR RACEWAY SYSTEM CABLE TRAY. "FS" INDICATES FIRE STOP
3	"D/OS" DUAL TECHNOLOGY WALL SWITCH TYPE OCCUPANCY SENSOR "D/OS" DUAL TECHNOLOGY WALL SWITCH	0	CONDUIT TRANSITION UP	FS	LOCATION CONDUIT SLEEVE
	TYPE OCCUPANCY SENSOR WITH 0-10V DIMMING	>	CONDUIT TRANSITION DOWN	<u>SITE</u>	
	"OS1" DUAL RELAY WALL SWITCH TYPE OCCUPANCY SENSOR		CONDUIT STUBBED OUT	LA' ■-⊡_2	POLE WITH STANCHION MOUNTED LIGHT FIXTURE. LETTERS INDICATED FIXTURE T
	"OS2" INFRARED WALL SWITCH TYPE OCCUPANCY SENSOR	—нт—	HEAT TRACE WIRING	2	LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.
	"D" 0-10V WALL SWITCH DIMMER "VS" WALL SWITCH TYPE VACANCY		HOMERUN TO PANEL BOARD. LETTERS INDICATE PANEL NAME. ARROWS INDICATE NUMBER OF	2	BOLLARD LIGHTING FIXTURE. LETTER IND
	SENSOR "D/VS" WALL SWITCH TYPE VACANCY	LPB - 2,4	CIRCUITS. NUMBERS INDICATE CIRCUIT DESIGNATIONS IN PANEL.	'Z'- ● -	FIXTURE TYPE ON LIGHTING FIXTURE SCH NUMBER INDICATES BRANCH CIRCUIT.
	"D/S" SENSOR WITH 0-10V DIMMING "D/S" WALL POD WITH PRESET SCENES AND	φ	SINGLE RECEPT.120V,20A, NEMA 5-20R UNLESS	 'Z'	EXTERIOR WALL MOUNTED LIGHTING FIX LETTER INDICATES FIXTURE TYPE ON LIG
(OS)	0-10V DIMMING OCCUPANCY SENSOR - CEILING MOUNTED	φ	NOTED OTHERWISE DUPLEX RECEPT.120V,20A, NEMA 5-20R UNLESS	l	FIXTURE SCHEDULE. NUMBER INDICATES CIRCUIT.
9	"A" - 1000 SQ. FT. COVERAGE "B" - 2000 SQ. FT. COVERAGE	Ϋ́	NOTED OTHERWISE		UTILITY SERVICE POLE
	"C" - HALLWAY TYPE "W"- WALL MOUNTED		"WP" - WEATHERPROOF TYPE WITH WEATHER - PROOF WHILE IN USE COVER	##	"UE" UNDERGROUND ELECTRIC
	"HB"- HIGH BAY/HIGH CEILING		"GFI" - GROUND FAULT INTERRUPTER, 4-6mA TYPE		"UMVE" UNDERGROUND MEDIUM VOL ELECTRIC
VS	VACANCY SENSOR - CEILING MOUNTED "A" - 1000 SQ. FT. COVERAGE		"AC" - ABOVE COUNTER. 6" ABOVE COUNTER TO BOTTOM OF DEVICE		"UT" UNDERGROUND TELEPHONE "UCOM" UNDERGROUND COMMUNICA
	"B" - 2000 SQ. FT. COVERAGE "W"- WALL MOUNTED		"UC" - UNDER COUNTER "IC" - IN CABINETRY, RECESSED RECEPTACLE		"UTV" UNDERGROUND CABLE TELE\ (CATV OR CCTV)
	"GTD" - GENERATOR TRANSFER DEVICE "NM" - NETWORK MODULE		"DF" - MOUNTED WITHIN DRINKING FOUNTAIN CABINETRY. COORDINATE MOUNTING	AE	"UFIBR" UNDERGROUND FIBER OPTIC
	"PP" - POWER PACK "PC" - PHOTOCELL FOR LIGHTING CONTROL		HEIGHT IN FIELD USING APPROVED MANUFACTURER CUT SHEETS		"AE" AERIAL ELECTRIC LINE "OHT" OVERHEAD TELEPHONE
	"RC1" - 1-RELAY ROOM CONTROLLER "RC2" - 2-RELAY ROOM CONTROLLER		"C" - CEILING MOUNTED "USB" - WITH USB		"OHE" OVERHEAD ELECTRIC
\bigcirc A	LIGHT LEVEL SENSOR - TYPE DENOTED		"USB-C" - WITH USB TYPE C "TR" - TAMPER RESISTANT	FIRE ALA	RM
POWER P	POWER POLE	φ	"CR" - CONTROLLED RECEPTACLE SPLIT DUPLEX RECEPT.	####	CONTROL UNIT (PANEL) "AMP" AMPLIFIER RACK
	LIGHTING ARRESTOR	φ Π	ISOLATED GROUND RECEPT (DUPLEX)		"FAA" FIRE ALARM ANNUNCIATO "FACP" FIRE ALARM CONTROL PA
() ()	LIGHTNING PROTECTION AIR TERMINAL	¶ ¶	RECEPT ON EMERGENCY CKT (DUPLEX)		"NAC" NOTIFICATION CIRCUIT PC BOOSTER EXTENDER PAN
	LIGHTNING PROTECTION CONDUCTOR SPLICE	⊕	QUADRUPLEX RECEPT. 120V,20A, NEMA 5-20R		
ıl⊨−●	GROUND ROD		UNLESS NOTED OTHERWISE QUADRUPLEX RECEPTACLE ON EMERGENCY	##	INTERFACE AND SUPERVISORY DEVICES "DH" DOOR HOLDER
\oplus	GROUND ROD (PLAN VIEW)	т Ф	CIRCUIT 240 VOLT RECEPT.		"EOL" END OF LINE "F" MANUAL PULL STATION
•	GROUND CONNECTION - EXOTHERMIC WELD		FLOOR RECEPT. (DUPLEX SHOWN)		"WF" FLOW DETECTOR "VS" VALVE SUPERFISORY SWITCH
۲	GROUND TEST WELL	ð	RECEPT ON DROP CORD (DUPLEX SHOWN)	# ##	
	GROUND CONNECTION TO STEEL OR STRUCTURE	Ф			"AIM" ADDRESSABLE INPUT MODULE "AOM" ADDRESSABLE OUTPUT CONTF "H" HEAT DETECTION TYPE
ΦΦ	JUNCTION BOX CEILING/WALL MOUNTED		RECEPT ON CORD REEL (DUPLEX SHOWN)		"R/F" = COMBINATION F TEMPERTURE
	"FA" - FURNITURE POWER "FD" - FURNITURE DATA	Ŷ	SPECIAL RECEPTACLE. NEMA CONFIGURATION AND		"F" = FIXED TEMPERT "R" = RATE OF RISE C
	"DA" - DOOR ACTUATOR "HD" - HAND DRYER	P	RATING AS INDICATED		"S" SMOKE DETECTOR/SENSOR "I" = IONIZATION
PB	PULL BOX	●P&S	PIN & SLEEVE CONNECTOR / RECEPTACLE		"P" = PHOTOELECTRI "BR" = BEAM RECEIVER
BGB 🕇 🕇	BUILDING GROUND BAR				"BT" = BEAM TRANSMI "SS" SMOKE DETECTOR SINGLE STA
TGB 🕂	TELECOM GROUND BAR	$ \Phi$	CONNECTION TO EQUIPMENT REFER TO EQUIPMENT SCHEDULE FOR DETAILS	$\langle S \rangle$	SMOKE DETECTOR/SENSOR FOR DUCT
PANEL	7	¢	EQUIPMENT PLUG	O F	BELL TROUBLE
'X' 100A MLO 208/120V 3Ø,4V	PANELBOARD / DISTRIBUTION PANEL / SWITCHBOARD. SURFACE MOUNTED,	⊬⊨●	MULTIPLE SERVICE OUTLET		COMBINATION HORN/VISIBLE
200/1201 30,41			MULTIPLE SERVICE FLR OUTLET	▼ CD	
		Φ	MULTIOUTLET ASSEMBLY	⊠ c	COMBINATION SPEAKER/VISIBLE "CD" CANDELA RATING/SETTIN "C" = CEILING MOUNT
				Fн	HORN ONLY
~~ 52 ~	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER			S c	SPEAKER ONLY - WALL MOUNT
	DRAWOUT CIRCUIT BREAKER	##	"DI" DOOR INTERLOCK "DO" ELECTRIC DOOR OPERATOR "EH" ELECTRIC HINGE		"C" CEILING MOUNT REMOTE ALARM INDICATING AND TEST SW
——————————————————————————————————————	DRAWOUT CIRCUIT BREAKER SPACE		"EH" ELECTRIC HINGE "EL" ELECTRIC LATCH "ES" ELECTRIC STRIKE		REMOTE INDICATOR
∘ XXA	MOLDED CASE CIRCUIT BREAKER		"MS" MOTION SENSOR FOR ACCESS CONTROL "PS" POWER SUPPLY FOR ACCESS CONTROL		CD
₀ ⁾ 3P			"RE" REQUEST TO EXIT DEVICE "R" RELAY		
	ENCLOSED CIRCUIT BREAKER		"S" DOOR STATUS CONTACTS "ML" MEGNETIC LOCK	L → CD	CD - CANDELA RATING / SETTI CD VISIBLE ONLY (STROBE) EMERGEI CEILING
T mr?	TRANSFORMER		"DC" DOOR CONTACTS "CR" CARD READER		CEILING CD - CANDELA RATING / SETTI
\bigcirc	GENERATOR		"KP" KEYPAD "WAP" WIRELESS ACCESS POINT		COMBINATION SPEAKER / VISIBLE APPLIAN "C" CEILILNG MOUNT
∕O∕ SF-1	MOTOR	ССЪ	CCTV CAMERA F=FIXED, P=PAN, T=TILT, Z= ZOOM		2 CARBON DIOXIDE DETECTOR
s ^M	MANUAL MOTOR STARTER WITH THERMAL	F F S	SPEAKER (WALL OR CEILING MT.)		CARBON MONOXIDE DETECTOR
5	OVERLOAD		· · · · · · · · · · · · · · · · · · ·		

AS-BUILTS – OPERATION & MAINTENANCE MANUALS PROVIDE FOR EACH SYSTEM AND EQUIPMENT AS SPECIFIED FOR USE BY OPERATION AND MAINTENANCE PERSONNEL. THE OPERATING INSTRUCTIONS SHALL INCLUDE: WIRING DIAGRAMS, CONTROL DIAGRAMS, AND CONTROL

SEQUENCE FOR EACH SYSTEM AND ITEM OF EQUIPMENT. • START-UP, PROPER ADJUSTMENT, OPERATING, LUBRICATION, AND SHUTDOWN PROCEDURES. SAFETY PRECAUTIONS

 THE PROCEDURE IN THE EVENT OF EQUIPMENT FAILURE OTHER ITEMS OF INSTRUCTION AS RECOMMENDED BY THE MANUFACTURER OF EACH SYSTEM OR ITEM OF EQUIPMENT.

IDENTIFICATION OF SYSTEMS OPERATING INSTRUCTIONS: PRINT OR ENGRAVE INSTRUCTIONS AND FRAME UNDER GLASS OR APPROVED LAMINATED PLASTIC, POST INSTRUCTIONS IN VIEW OF EQUIPMENT. PROVIDE WEATHER RESISTANT MATERIALS FOR EXTERIOR APPLICATIONS.

1. EQUIPMENT: PROVIDE NAMEPLATE FOR ALL EQUIPMENT IT SHALL BE A SELF-ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. PROVIDE ADHESIVE BACK, WITH WHITE LETTERS ON A DARK GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8-INCH.S.

WARNING SIGNS: PROVIDE A SELF-ADHESIVE WARNING LABEL THAT IS FACTORY PRINTED, MULTI-COLOR, PRESSURE SENSITIVE, ADHESIVE LABEL. COMPLY WITH N.E.C. 70 AND 29 CFR 1910.145. LABELS FOR MULTIPLE POWER SOURCES SHALL READ: "DANGER – ELECTRICAL SHOCK HAZARD – EQUIPMENT HAS MULTIPLE POWER SOURCES". LABELS FOR ALL OTHER EQUIPMENT REQUIRING WORKSPACE CLEARANCES SHALL READ: "WARNING – OSHA REGULATION – AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR 36-INCHES".

NURSE CALL CODE BLUE EMERG. STATION

TWO GANG JUNCTION BOX WITH 1 " CONDUIT

STUBBED TO 6" ABOVE NEAREST ACCESSIBLE

ALL RACEWAYS. ALL CABLING, TERMINATIONS

TWO GANG JUNCTION BOX WITH 1 " CONDUIT

STUBBED TO 6" ABOVE NEAREST ACCESSIBLE

ALL RACEWAYS. ALL CABLING, TERMINATIONS

TWO GANG JUNCTION BOX WITH 1 " CONDUIT

STUBBED TO 6" ABOVE NEAREST ACCESSIBLE

CEILING, NYLON BUSHING ON CONDUIT END, AND

ALL RACEWAYS. ALL CABLING, TERMINATIONS

TV IV TELEVISION OUTLET CEILING OR WALL MOUNT

"FACP" FIRE ALARM CONTROL PANEL

"SS" SMOKE DETECTOR SINGLE STATION

"CD" CANDELA RATING/SETTING

VISIBLE ONLY (STROBE) WALL / CEILING

CD - CANDELA RATING / SETTING

CD - CANDELA RATING / SETTING

COMBINATION SPEAKER / VISIBLE APPLIANCE

VISIBLE ONLY (STROBE) EMERGENCY WALL

"BT" = BEAM TRANSMITTER

RTS REMOTE ALARM INDICATING AND TEST SWITCH

"AOM" ADDRESSABLE OUTPUT CONTROL MODULE

"F" = FIXED TEMPERTURE

"R" = RATE OF RISE ONLY

"R/F" = COMBINATION RISE/FIXED

"NAC" NOTIFICATION CIRCUIT POWER

FIRE ALARM ANNUNCIATOR

BOOSTER EXTENDER PANEL

FIXTURE. LETTERS INDICATED FIXTURE TYPE ON

BOLLARD LIGHTING FIXTURE. LETTER INDICATE FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE.

EXTERIOR WALL MOUNTED LIGHTING FIXTURE.

LETTER INDICATES FIXTURE TYPE ON LIGHTING

FIXTURE SCHEDULE. NUMBER INDICATES BRANCH

UNDERGROUND MEDIUM VOLTAGE

UNDERGROUND COMMUNICATIONS

UNDERGROUND CABLE TELEVISION

CEILING, NYLON BUSHING ON CONDUIT END, AND

CEILING, NYLON BUSHING ON CONDUIT END, AND

CONTRACTOR SHALL PROVIDE IDENTIFICATION ON ALL DEVICES. PROVIDE WHITE LABEL WITH BLACK LETTERING AND LOCATE ON DEVICE UNDER PLATE. CONTRACTOR SHALL IDENTIFY DEVICE WITH PANEL AND CIRCUIT NUMBER FEEDING DEVICE.

<u>GUARANTEE</u> PROVIDE GUARANTEE FOR ALL LABOR AND MATERIALS FOR ONE (1) YEAR AFTER OWNER'S WRITTEN ACCEPTANCE OF THE PROJECT.

LAYOUT OF THE WORK EXAMINE THE SITE AND ALL THE DRAWINGS BEFORE PROCEEDING WITH THE LAYOUT AND INSTALLATION OF THIS WORK. LOCATE ESSENTIALLY AS SHOWN ON THE DRAWINGS. BUT IN EXACT LAYOUT DETERMINED ON THE JOB, TO SUIT ACTUAL CONDITIONS. CONFER AND COOPERATE WITH OTHER TRADES ON THE JOB SO ALL PARTS WILL BE INSTALLED IN PROPER RELATIONSHIP. PRECISE LOCATION OF PARTS TO COORDINATE

DEMOLITION

CONTRACTOR.

WIRE AND CABLE

BRANCH CIRCUIT NUMBER.

WITH OTHER WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

<u>GE</u>	NERAL NO	DTES:	ABBREVIA	TIONS
1.		CIRCUIT BREAKER SIZE FOR CONDUITS SHOWN ON	CND	CONDUIT
		20A, 1 POLE FOR 120VAC UNLESS OTHERWISE HOWN ON PLANS	COMB CONN	COMBINATION CONNECTION
2.		BRANCH CIRCUIT WIRING SHALL BE #12 AWG.	CONST CONT	CONSTRUCTION CONTINUOUS
	CONDUIT	CONDUCTORS PER NEC FOR VOLTAGE DROP AND FILL.	CONV	CONVECTOR
3.	PROVIDE	GROUNDING PER NEC (ARTICLE 250).	CP CT	CIRCULATION PUMP CURRENT TRANSFOR
4.		A SEPARATE NEUTRAL CONDUCTOR FROM DARD FOR EACH BRANCH CIRCUIT.	CU D	COPPER
5		CTOR SHALL COORDINATE WORK WITH ASSOCIATED	DC DCP	DIRECT CURRENT DOMESTIC WATER C
J.	TRADES.	STOR SHALL COORDINATE WORK WITH ASSOCIATED	DDCP	DIRECT DIGITAL CON
6.		CTOR SHALL SEAL WITH AN APPROVED METHOD ALL CAL PENETRATIONS THRU FIRE FLOOR/PROOF/RATED	DE DEPT	DUAL ELEMENT DEPARTMENT
		LOORS, CEILINGS OR OTHER AREAS.	DIA, Ø DISC	DIAMETER DISCONNECT
7.		CTOR SHALL PROVIDE FUSES SIZED PER CTURERS RECOMMENDATIONS FOR ALL EQUIPMENT	DIST DN	DISTRIBUTION DOWN
	INSTALLE	D WITH FUSED STARTERS OR DISCONNECTS.	DP	DOUBLE POLE
8.		RIOR PVC CONDUIT SHALL TRANSITION TO RGS WITHIN 18" OF FOUNDATION WALL PRIOR TO	DPR DS	DAMPER SAFETY DISCONNEC
		THRU THAT WALL.	DT DWG,	DOUBLE THROW DRAWING, DRAWING
9.	ASSOCIA	CTOR SHALL PROVIDE RACEWAY, WIRE, CABLE AND TED FITTINGS ALONG WITH COMPLETE	DWGS E	
	DEVICES	TIONS REQUIRED FOR BRANCH CIRCUITS FROM TO FINAL OVERCURRENT DEVICE AND LOCAL	EC EGC	ELECTRICAL CONTRA
		L DEVICE(S) PER PROJECT SPECIFICATIONS.	ELEC	ELECTRIC, ELECTRIC
10.		XACT LOCATION OF ELECTRICAL CONNECTION N THE FIELD.	ELEV EMER	ELEVATOR EMERGENCY
11.		SHALL BE CONCEALED WITHIN WALLS AND CEILINGS	EMS EMT	ENERGY MANAGEME
	EXPOSED	POSSIBLE. SOME CONDUIT SYSTEMS SHALL BE DOUE TO THE CONSTRUCTION OF THE BUILDING. CTOR SHALL STRIVE TO CONSOLIDATE CONDUITS	EPO	EMERGENCY POWER
	AND ARR	ANGE IN A GEOMETRICALLY ALIGNED FASHION TO OW IMPACT ON THE AESTHETICS OF THE SPACE.	EQUIP ES	EQUIPMENT END SWITCH
	CONDUIT	SHALL BE ROUTED FROM THE CORRIDOR DIRECTLY CH ROOM, NOT ROUTED FROM ROOM TO ROOM.	EUH EWC	ELECTRIC UNIT HEAT
	CONTRAC	CTOR SHALL PROVIDE AND NOTIFY CONSULTANT IEW OF THE INSTALLED CONDUIT LAYOUT EARLY IN	EWH EXH	ELECTRIC WATER HE EXHAUST
	THE PRO	JECT. CONDUIT INSTALLATION SHALL CONTINUE DNSULTANT APPROVAL AND IS SUBJECT TO	EXH-1	EXHAUST AIR - TYPE
	MODIFIC	ATIONS AS THE CONSULTANT SEES FIT. EXPOSED S SHALL BE PAINTED TO MATCH SURROUNDING	EXH-2 EXP	EXHAUST AIR - TYPE EXPANSION PROOF
	CONDITIO	DNS. REFER TO CONSTRUCTION COORDINATION MENTS IN THE PROJECT SPECIFICATIONS.	F F	FUSED
12.		LIGHTING CONTROLS INCLUDING DEVICE ITSELF,	FA	FIRE ALARM
	CONDUIT	, CONDUCTORS, 0-10V WIRING, POWER PACKS, ACKS, CONNECTORS, AND OTHER ACCESSORIES FOR	FACP FBO	FIRE ALARM CONTRO
		ETE AND OPERATIONAL SYSTEM.	FCU FLOUR	FAN COIL UNIT FLUORESCENT
13.		REPENCIES SHALL BE BROUGHT TO THE ATTENTION	FLR FVNR	FLOOR FULL VOLTAGE NON-
			G	
			GA GAL	GAUGE GALLON
			GALV GC	GALVANIZED GENERAL CONTRAC
			GEN	GENERATOR GROUND FAULT PRC
			GFI GND	GROUND
			GRS GWB	GALVANIZED RIGID S GYPSUM BOARD
			H HID	HIGH INTENSITY DIS
			HOA	HANDS-OFF-AUTOMA
			HORIZ HP	HORIZONTAL HORSEPOWER
	BREVIA		HPF HT	HIGH POWER FACTO HEIGHT
LDL &		AND	HTG	HEATING
•	E), EXST ER)	EXISTING TO REMAIN EXISTING TO BE RELOCATED	HTR HV	HEATER HIGH VOLTAGE
(N	۷)	NEW WORK	HVAC HWP	HEATING VENTILATION HYDRONIC WATER P
	R) RE)	REMOVE RELOCATED EXISTING	HZ	HERTZ
@ 1		AT 1 POLE (2P, 3P, 4P ETC.)	IC	INTERRUPTER CAPA
'		FEET INCHES	IG IMC	ISOLATED GROUND
#		NUMBER, POUNDS	INC IR	INCANDESCENT INFRARED
Ø Ø	i, DIA	PHASE DIAMETER	J	
Υ Δ		WYE DELTA	J-BOX, JB K	JUNCTION BOX
А			k kcmil	KIPS THOUSAND CIRCULA
А	, AMP FG	AMPERE ABOVE FINISHED GRADE	K-FT KK	KIP-FOOT KIRK KEY INTERLOCI
	FI FR	ARC FAULT CIRCUIT BREAKER ARC FLASH REDUCTION CIRCUIT BREAKER	kV	KILOVOLT
	HJ HU	AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT	KVA KVAR	KILOVOLT-AMPERE KILOVOLT-AMPERE F
А	LUM	ALUMINUM	KW KWH	KILOWATT KILOWATT HOUR
	LT FF	ALTERNATE ABOVE FINISHED FLOOR	L	
	MPL NNUN	AMPLIFIER ANNUNCIATOR	LA LF	LIGHTING ARRESTOF
А	PPROX	APPROXIMATE, APPROXIMATELY	LOC LT	LOCATION LIGHT
	RCH T	ARCHITECT, ARCHITECTURAL AMP TRIP RATING	LTG	LIGHTING
	TS TTN	AUTOMATIC TRANSFER SWITCH ATTENTION	LTNG LV	LIGHTNING LOW VOLTAGE
	UTO UX	AUTOMATIC AUXILIARY	M M/C	MOMENTARY CONTA
A	V	AUDIO VISUAL	mA MAG.S	MILLIAMPERE MAGNETIC STARTER
A B	WG	AMERICAN WIRE GAUGE	MAX	MAXIMUM
	/, BO AS	BOTTOM OF BUILDING AUTOMATION SYSTEM	MC MCB	MECHANICAL CONTR MAIN CIRCUIT BREAK
В	ATT	BATTERY	MCC MDP	MOTOR CONTROL CE MAIN DISTRIBUTION
В	D KR	BOARD BREAKER	MECH	MECHANICAL
	MS OC	BUILDING MANAGEMENT SYSTEM BOTTOM OF CONCRETE	MEZZ MFR	MEZZANINE MANUFACTURER
С			MFS MH	MAIN FUSED DISCON MANHOLE
С	AB ATV	CABINET CABLE TELEVISION	MIC	MICROPHONE
	B CTV	CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION	MISC	MISCELLANEOUS
	K	BREAKER WITH CONTACT KIT FOR GROUND FAULT ALARM ONLY INDICATION	MLO MOA	MAIN LUG ONLY MULTIOUTLET ASSEN
	KT	CIRCUIT	MT MTC	MOUNT EMPTY CONDUIT
С		CENTERLINE CURRENT LIMITING	MTR	MOTOR, MOTORIZED
	LG MPR	CEILING COMPRESSOR	MTS MV	MANUAL TRANSFER MEDIUM VOLTAGE

CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND MATERIAL AS INDICATED ON THE DEMOLITION PLAN. ALL REMOVED AND UNUSED LIGHTS AND EQUIPMENT SHALL BE TURNED OVER TO THE OWNER; ALL OTHER ITEMS SHALL BE REMOVED FROM THE SITE. EXISTING CONDUIT HOMERUNS MAY BE REUSED WHENEVER POSSIBLE. CONTRACTOR SHALL PATCH EXISTING WALL AND CEILING OPENINGS IN FINISHED AREAS UPON REMOVAL OF ELECTRICAL EQUIPMENT. CONTRACTOR SHALL ALSO PROTECT ALL EXISTING ELECTRICAL EQUIPMENT TO REMAIN DURING CONSTRUCTION PERIOD.

CUTTING AND PATCHING ALL NECESSARY CUTTING OF THE BUILDING CONSTRUCTION FOR THE NEW INSTALLATION OF THE WORK SHALL BE FURNISHED BY THE CONTRACTOR. NO STRUCTURAL MEMBERS OF THE BUILDING SHALL BE CUT WITHOUT PRIOR APPROVAL OF THE ARCHITECT. ALL NECESSARY PATCHING OF THESE SURFACES TO BE FURNISHED BY THIS

ALL WIRING SHALL STRANDED COPPER AND INSTALLED IN CONDUIT, TUBING, OR SURFACE METALLIC RACEWAY, CONDUCTORS SHALL BE CONTINUOUS BETWEEN OUTLETS OF JUNCTION BOXES WITH SPLICES MADE ONLY WITHIN SUCH BOXES. SOLDERLESS PRESSURE-TYPE CONNECTORS PROPERLY INSULATED SHALL BE USED FOR ALL JOINTS. NO WIRE SMALLER THAN #12 MAY BE USED UNLESS SPECIFICALLY SPECIFIED UNDER DESCRIPTIONS OF SPECIAL SYSTEMS. ALL INDIVIDUAL BRANCH CIRCUITS AND SINGLE POLE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. EACH NEUTRAL SHALL BE IDENTIFIED AT ALL JUNCTION BOXES AND TERMINALS SAME AS ITS CORRESPONDING

TION ΓΙΟΝ JCTION OUS TION PUMP OR CONTROL PANEL TRANSFORMER JRRENT WATER CIRCULATING PUMP IGITAL CONTROL PANEL MENT FNT -ст TION POLE DISCONNECT SWITCH HROW DRAWINGS CAL CONTRACTOR NT GROUND CONDUCTOR , ELECTRICAL ANAGEMENT SYSTEM CAL METALLIC TUBING NCY POWER OFF CUNIT HEATER WATER COOLER WATER HEATER AIR - TYPE 1 AIR - TYPE 2 N PROOF RM CONTROL PANEL ED BY OTHERS UNIT CENT TAGE NON-REVERSING ED CONTRACTOR FAULT PROTECTOR ED RIGID STEEL (CONDUIT) BOARD NSITY DISCHARGE FF-AUTOMATIC SWITCH **AL** OWER VER FACTOR TAGE VENTILATION AND AIR CONDITIONING WATER PUMP TER CAPACITY GROUND DIATE METAL CONDUIT SCENT **BOX** D CIRCULAR MILLS (MCM) INTERLOCK -AMPERE -AMPERE REACTIVE HOUR ARRESTOR FT TAGE RY CONTACT FRE STARTER CAL CONTRACTOR UIT BREAKER ONTROL CENTER **RIBUTION PANEL** TURER ED DISCONNECT SWITCH ONE ANEOUS ONLY LET ASSEMBLY NDUIT MOTORIZED TRANSFER SWITCH

NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NON-FUSED NON-FUSED SAFETY DISCONNECT SWITCH NOT IN CONTRACT NIGHT LIGHT - WIRE AHEAD OF SWITCH/CONTROL NORMALLY OPEN NUMBER NORMAL POWER FACTOR NATIONALLY RECOGNIZED TESTING LABORATORY NOT TO SCALE NORMAL WEIGHT ON CENTER OVERCURRENT PROTECTION DEVICE OVERHEAD OVERLOADS POLE PUBLIC ADDRESS PULL BOX OR PUSH BUTTON PLUMBING CONTRACTOR PHOTO ELECTRIC CELL PEDESTAL POWER FACTOR PHASE POST INDICATING VALVE PLATE PANEL PROJECTION POWER ROOF VENTILATOR POTENTIAL TRANSFORMER POLYVINYL CHLORIDE POWER QUANTITY REMOTE CONTROL RECPT RECEPTACLE REQD REQUIRED ROOM ROOT MEAN SQUARE RIGID STEEL CONDUI ROOF TOP UNIT REQMTS REQUIREMENTS STOP/START PUSHBUTTONS SCHED SCHEDULE SECONDARY SF, SQFT SQUARE FEET SUB FEED BREAKER KIT SHEET SIMILAR SURGE PROTECTION DEVICE SPECIFICATION SPEAKER SAFETY SWITCH SINGLE THROW STAINLESS STEEL STATION STANDARD STRUCT STRUCTURAL, STRUCTURE SWITCH SWITCHBOARD SWBD SWGR SWITCHGEAR SYMMETRICAL SYSTEM SELECTOR SWITCH SHORT SLOTTED SPACES SPCS TELEPHONE TEL/DATA TELEPHONE/DATA TERM TERMINAL TWIST LOCK TIME SWITCH THERMOSTAT T-STAT TELEPHONE TERMINAL BOARD TELEVISION TELEVISION TERMINAL CABINET TYPICAL TELEPHONE TERMINAL CABINET UNDER COUNTER UNDERGROUND UNDERGROUND ELECTRICAL UNDERGROUND TELEPHONE UNIT HEATER UNLESS NOTED OTHERWISE UTILITY UNIT VENTILATOR OR ULTRAVIOLET VOLT VOLT-AMPERES VIDEO DISPLAY TERMINAL VARIABLE FREQUENCY CONTROLLER VERIFY IN FIELD VOLTMETER VOLUME VERTICAL WATT WITH WITHOUT WATTS PER SQUARE FOOT WIRE GUARD WATER HEATER WEATHERPROOF TRANSFORMER TRANSFER

NEUTRAL

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ALL CONDUIT SHALL BE 3/4-INCH MINIMUM UNLESS NOTED OTHERWISE. WIRING METHODS: INTERIOR EXPOSED/CONCEALED UNDER 2-INCHES: EMT. ALL CONDUIT AND WIRE IN FINISHED AREAS SHALL BE CONCEALED IN THE CONSTRUCTION WHERE PRACTICABLE. ALL RACEWAYS SHALL BE ROUTED WITHIN STRUCTURAL STEEL AND FURRED SPACES UTILIZING FACTORY MADE ELBOWS AS GOOD PRACTICE AND WORKMANSHIP ALLOWS. INSTALL SLEEVES THROUGH STRUCTURAL CONCRETE OR WHERE PENETRATING STRUCTURAL FLOOR DECKS. KEEP RACEWAYS AT LEAST 6-INCHES FROM PARALLEL RUNS OF FLUES, STEAM AND HOT WATER PIPING. INSTALL HORIZONTAL CONDUIT RUNS ABOVE WATER AND STEAM PIPING. INSTALL RACEWAYS LEVEL AND SQUARE AND AT PROPER ELEVATIONS. PROTECT STUB UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS AND ARRANGE SO CURVED PORTION OF BENDS ARE NOT VISIBLE ABOVE THE FINISHED SLAB.

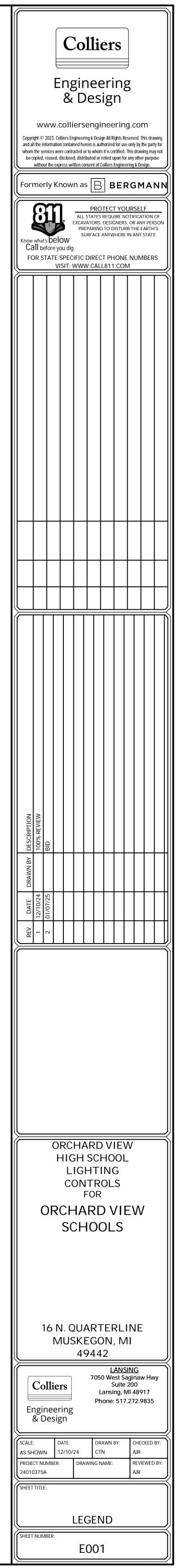
CONTRACTOR SHALL PROVIDE AND INSTALL ALL PLENUM RATED UTP CABLING, OUTLETS/CONNECTORS AND IDENTIFICATION AS REQUIRED. ELECTRICAL CONTRACTOR SHALL PROVIDE 4-INCH SQUARE BOXES WITH 1-INCH CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING WITH PULL STRING. UTP CABLE AND OUTLETS/CONNECTORS SHALL BE CATEGORY 6. CABLE AND DEVICES SHALL BE MANUFACTURED BY ADC, BELDEN, HUBBELL, LEVITON, PANDUIT, SIEMON, COMMSCOPE, OR SUPERIOR ESSEX. INSTALL CABLE IN PATHWAYS, CABLE TRAY OR J-HOOK, ABOVE CEILING. COMPLY WITH TIA/EIA-568-B-1 AND TIA/EIA-568-B-2. ALL CONDUCTORS SHALL BE TERMINATED AT BOTH THE OUTLETS AND AT THE PATCH PANELS. NO SPLICING IS ALLOWED. BOTH ENDS OF CABLE SHALL BE IDENTIFIED. PROVIDE THE FOLLOWING TESTS: WIRE MAP, LENGTH (PHYSICAL VS. ELECTRICAL, LENGTH REQUIREMENTS), INSERTION LOSS, NEAR-END CROSSTALK (NEXT) LOSS, POWER SUM NEAR-END CROSSTALK (PSNEXT) LOSS, EQUAL-LEVEL FAR-END CROSSTALK (ELFEXT), POWER SUM EQUAL-LEVEL FAR-END CROSSTALK (PSELFEXR), RETURN LOSS, PROPAGATION DELAY, AND DELAY SKEW. PROVIDE AS-BUILT DRAWINGS.

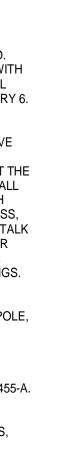
COMMUNICATIONS HORIZONTAL CABLING

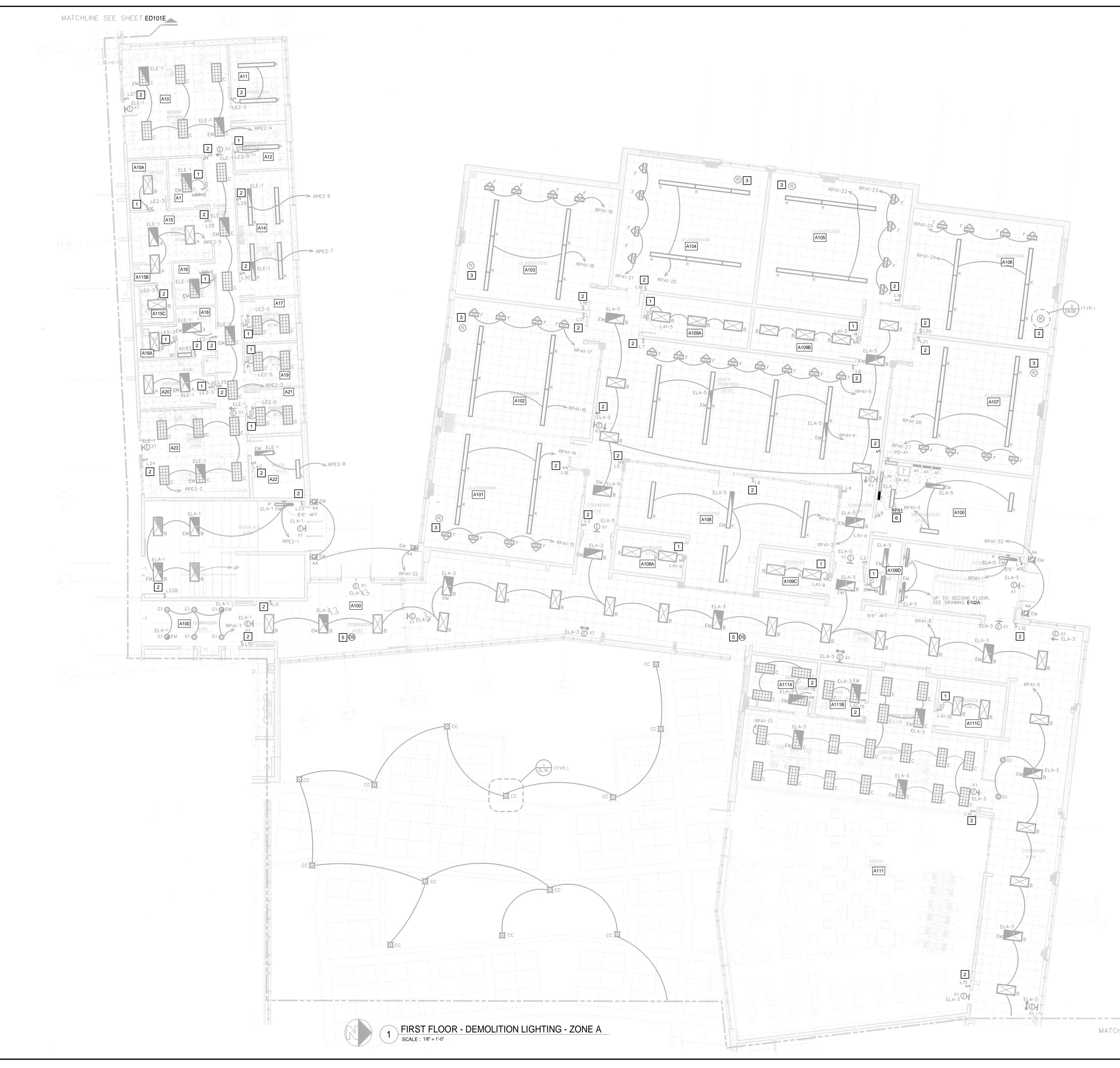
WALL SWITCHES SWITCHES SHALL BE SPECIFICATION GRADE TOGGLE TYPE, SINGLE-POLE, THREE-WAY TWO POSITION DEVICES RATED AT 20A. WALL PLATES ALL DEVICE PLATES SHALL BE NON-CONDUCTIVE, THERMOPLASTIC,

COLOR TO MATCH DEVICES, AND MEET FEDERAL SPECIFICATION WP455-A. SUPPORTS AND HANGERS PROVIDE AND INSTALL NECESSARY STEEL BRACKETS, RODS, CLAMPS,

ETC., FOR SUPPORT OF ALL WORK UNDER THIS CONTRACT.



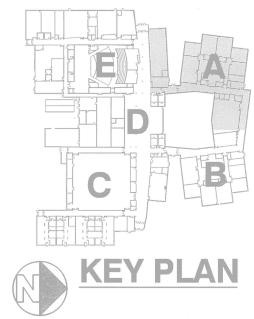




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- C. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING LIGHT SWITCHES, OCCUPANCY SENSORS, PHOTOCELLS AND WIRING AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK.
- D. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES EXISTING TO REMAIN.
- E. CONTRACTOR TO PROVIDE BLANK PLATES FOR ALL UNUSED OPEN JUNCTION BOXES.

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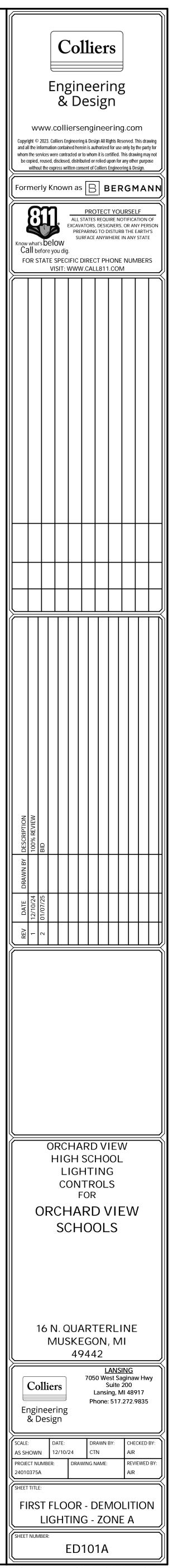
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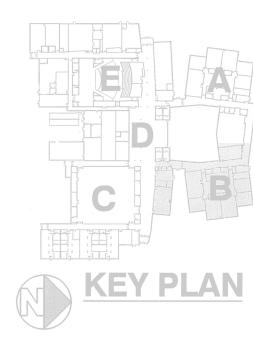




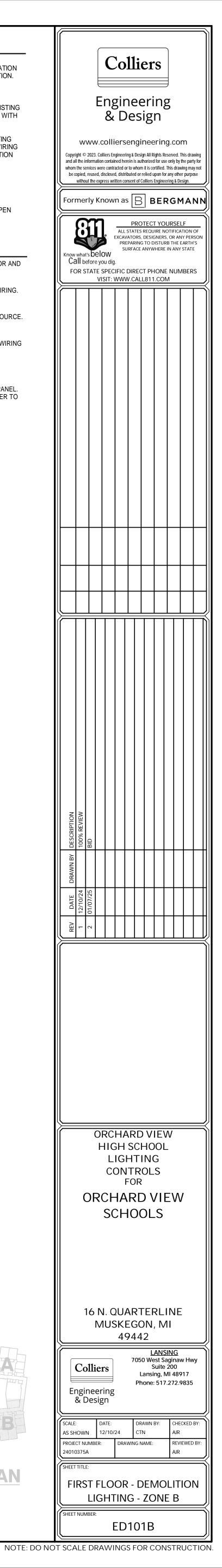
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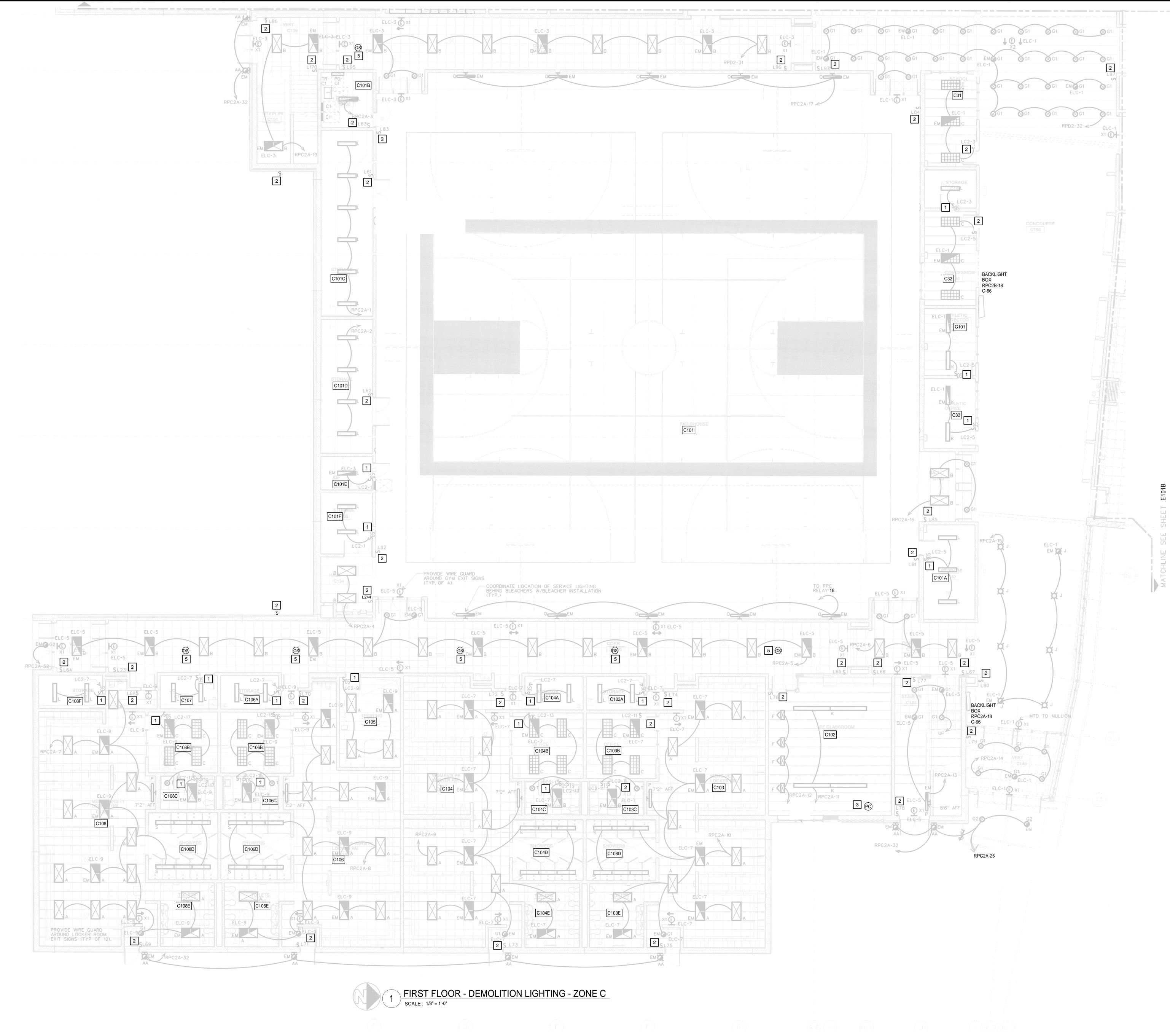
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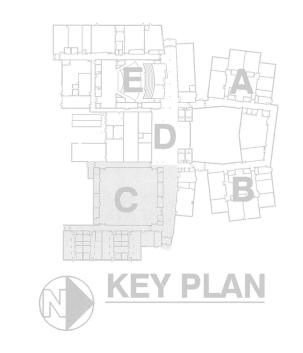
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GENERAL NOTES:

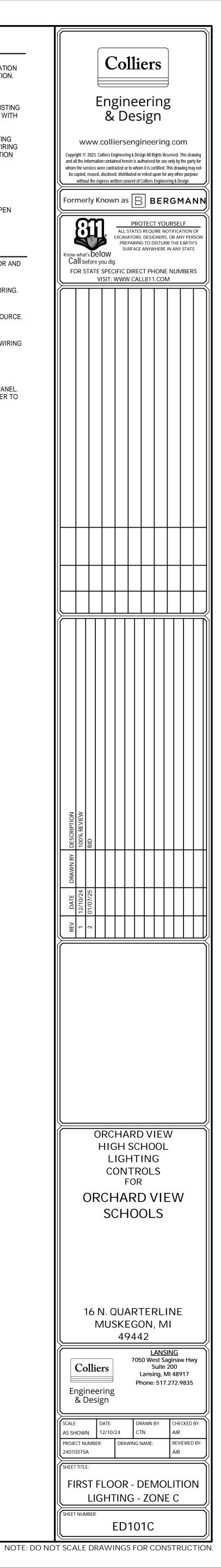
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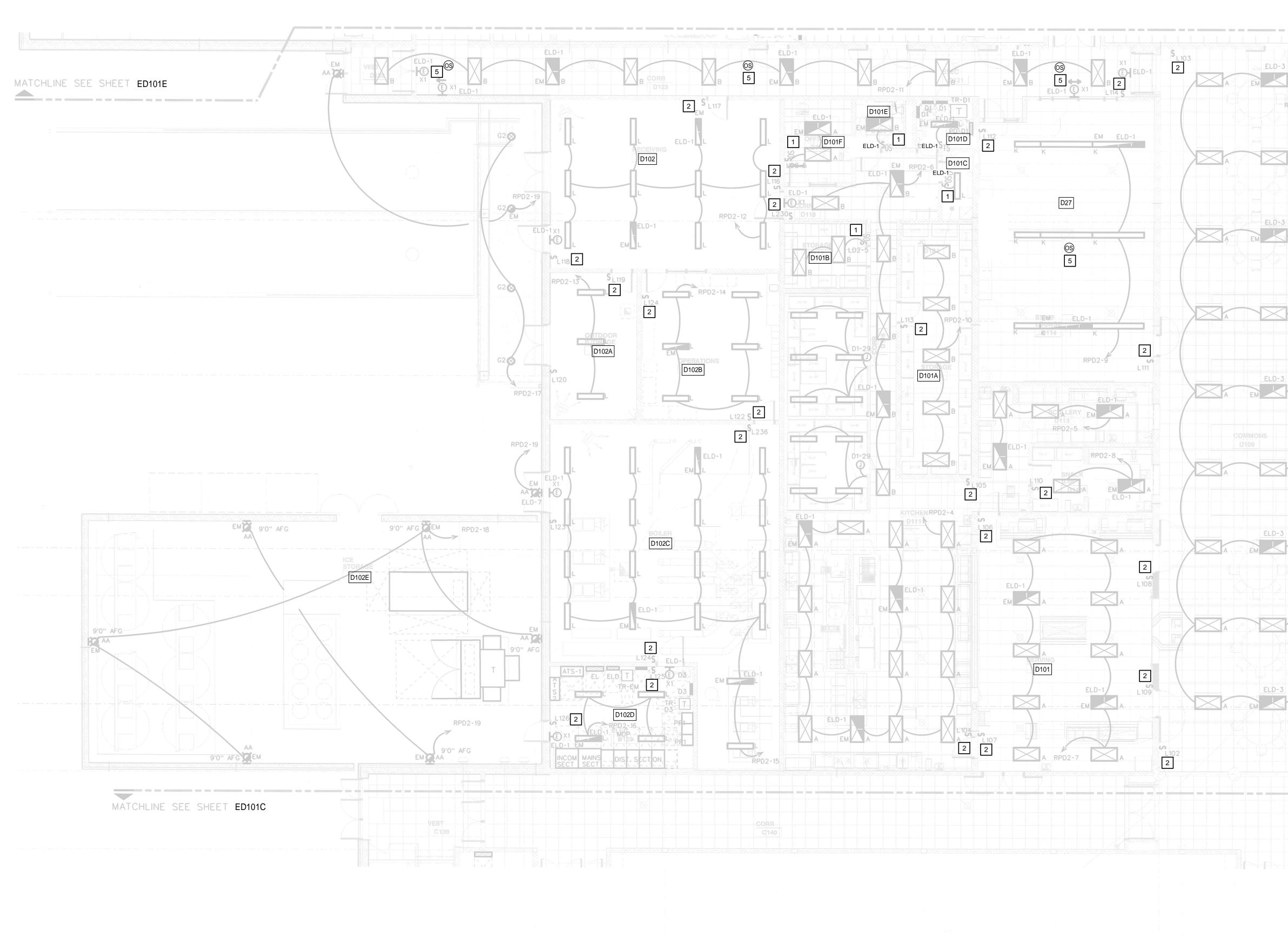
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FIRST FLOOR - DEMOLITION LIGHTING - ZONE D SCALE : 1/8" = 1'-0"

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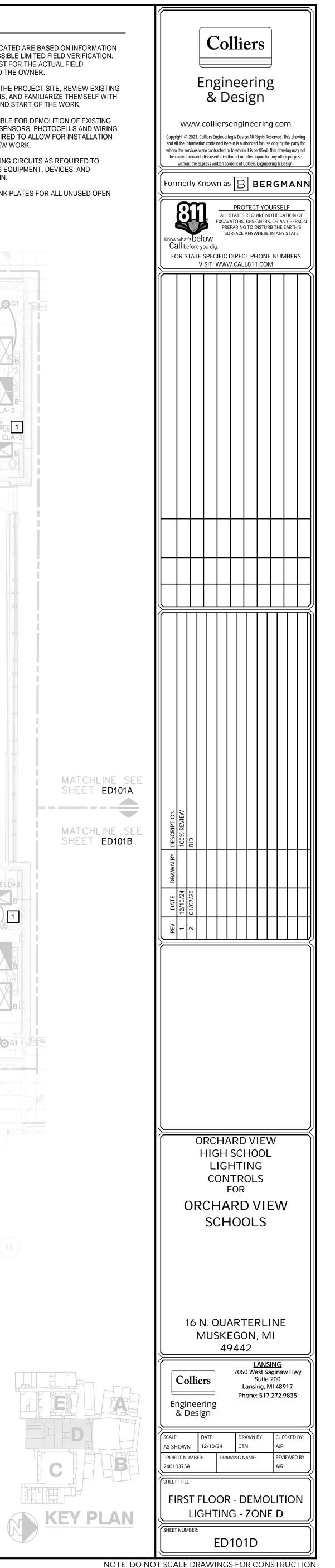
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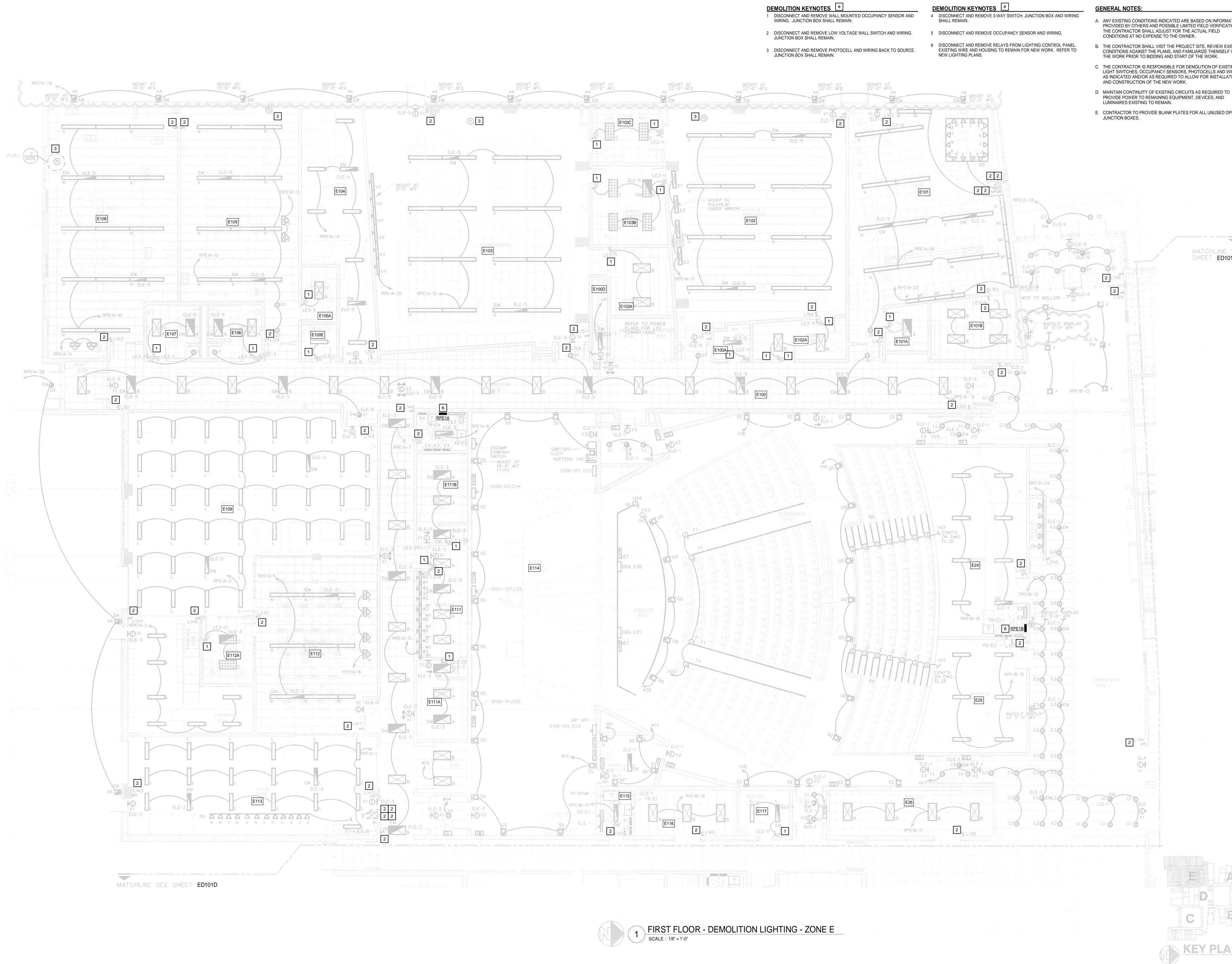
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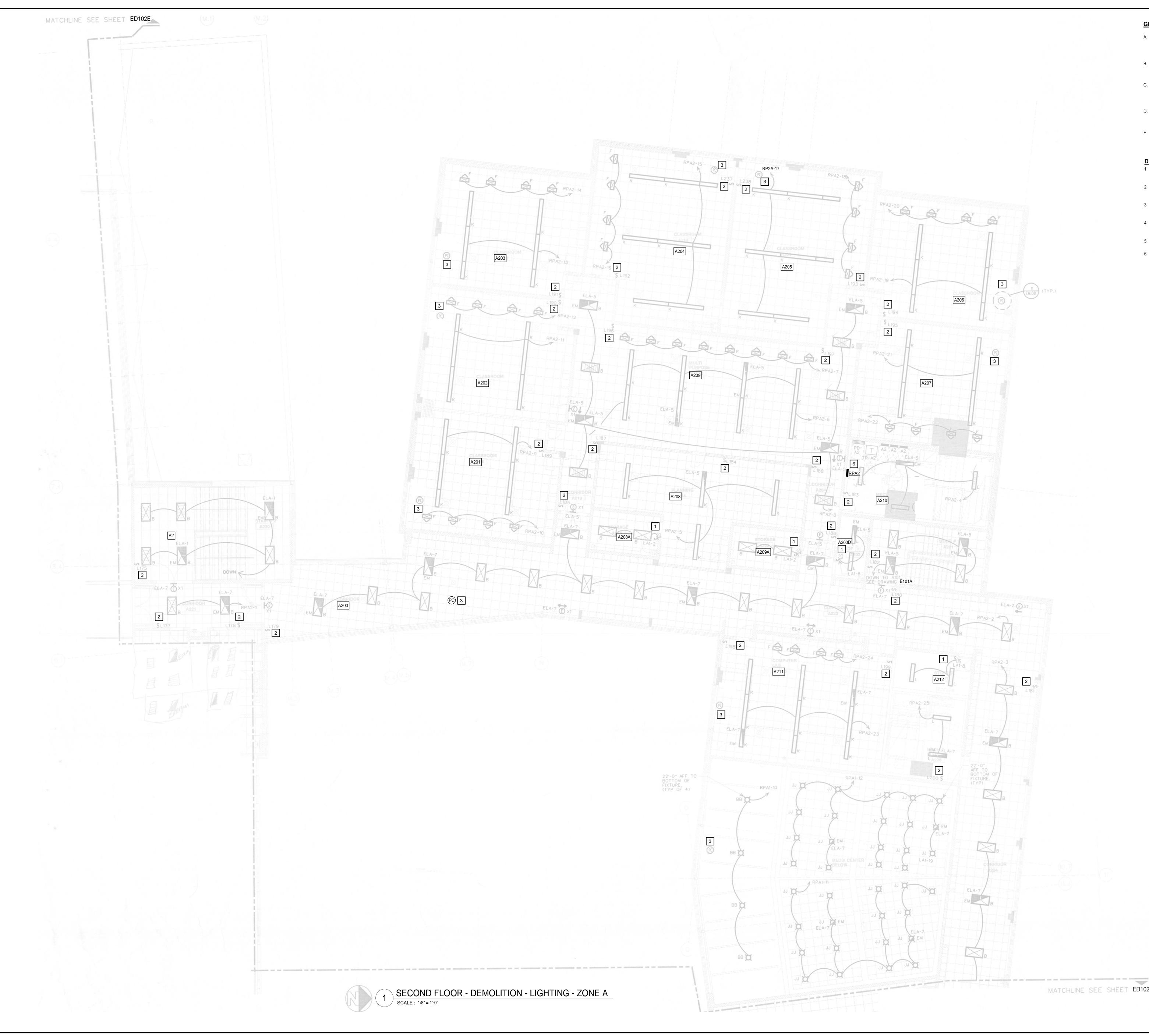
5 DISCONNECT AND REMOVE OCCUPANCY SENSOR AND WIRING.



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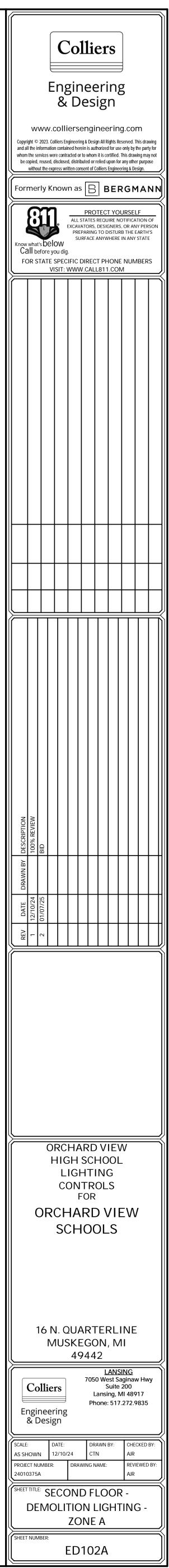
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C. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING

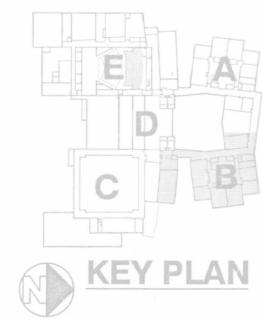




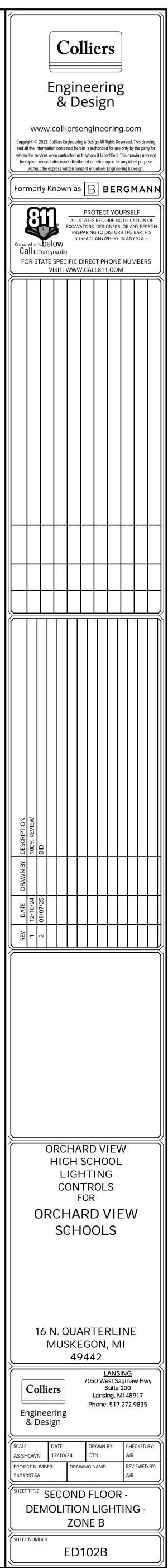
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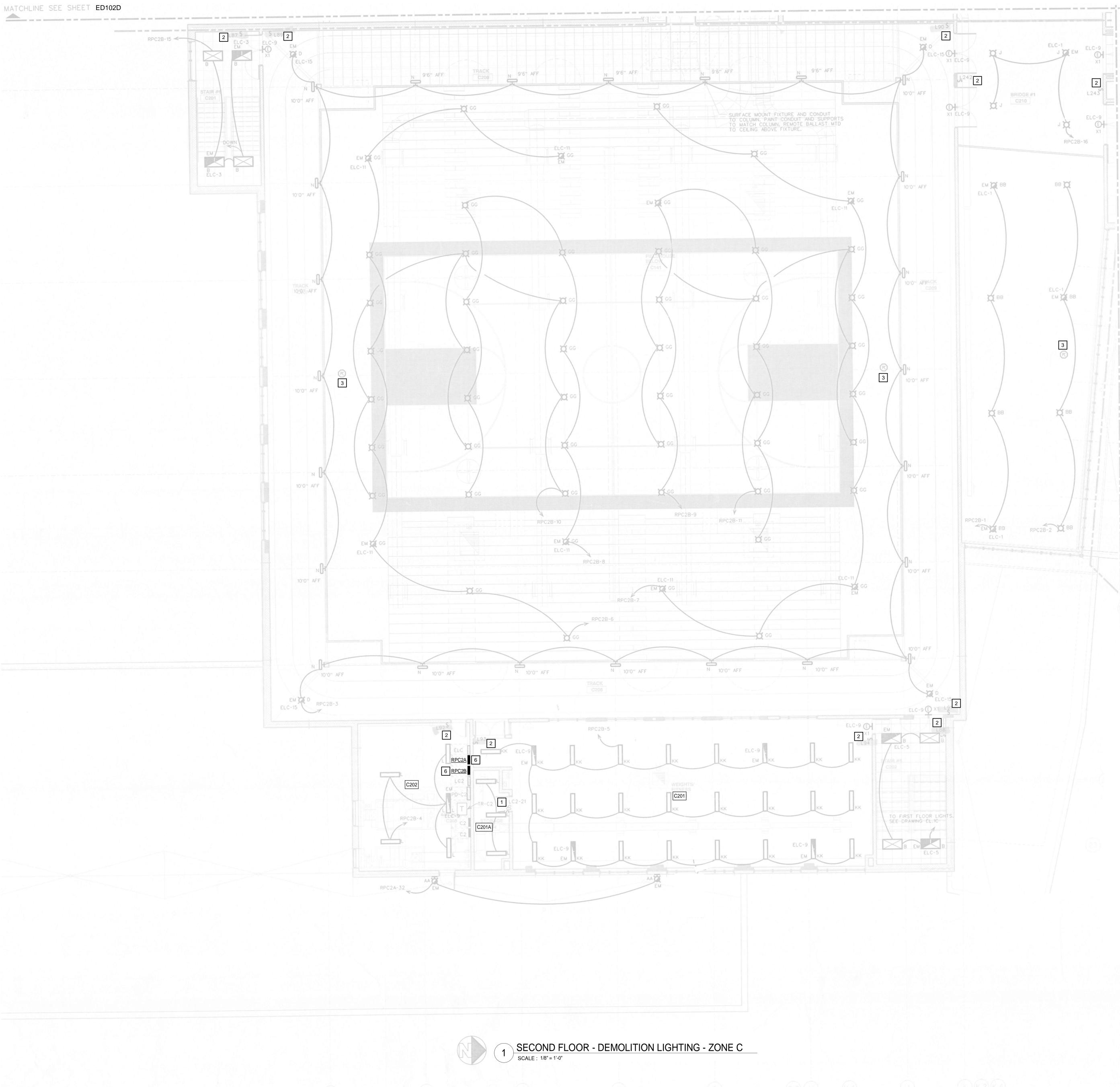
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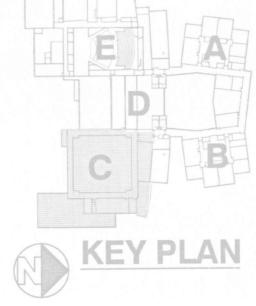
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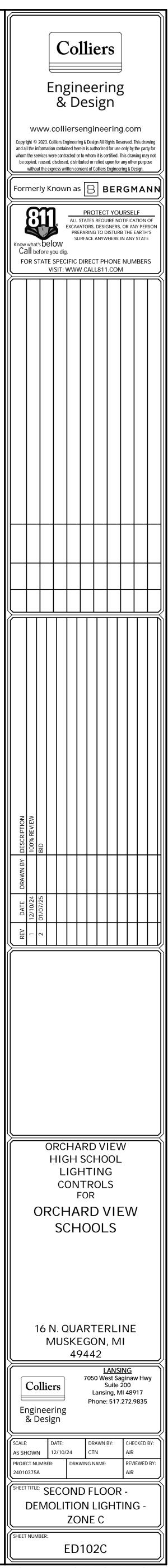
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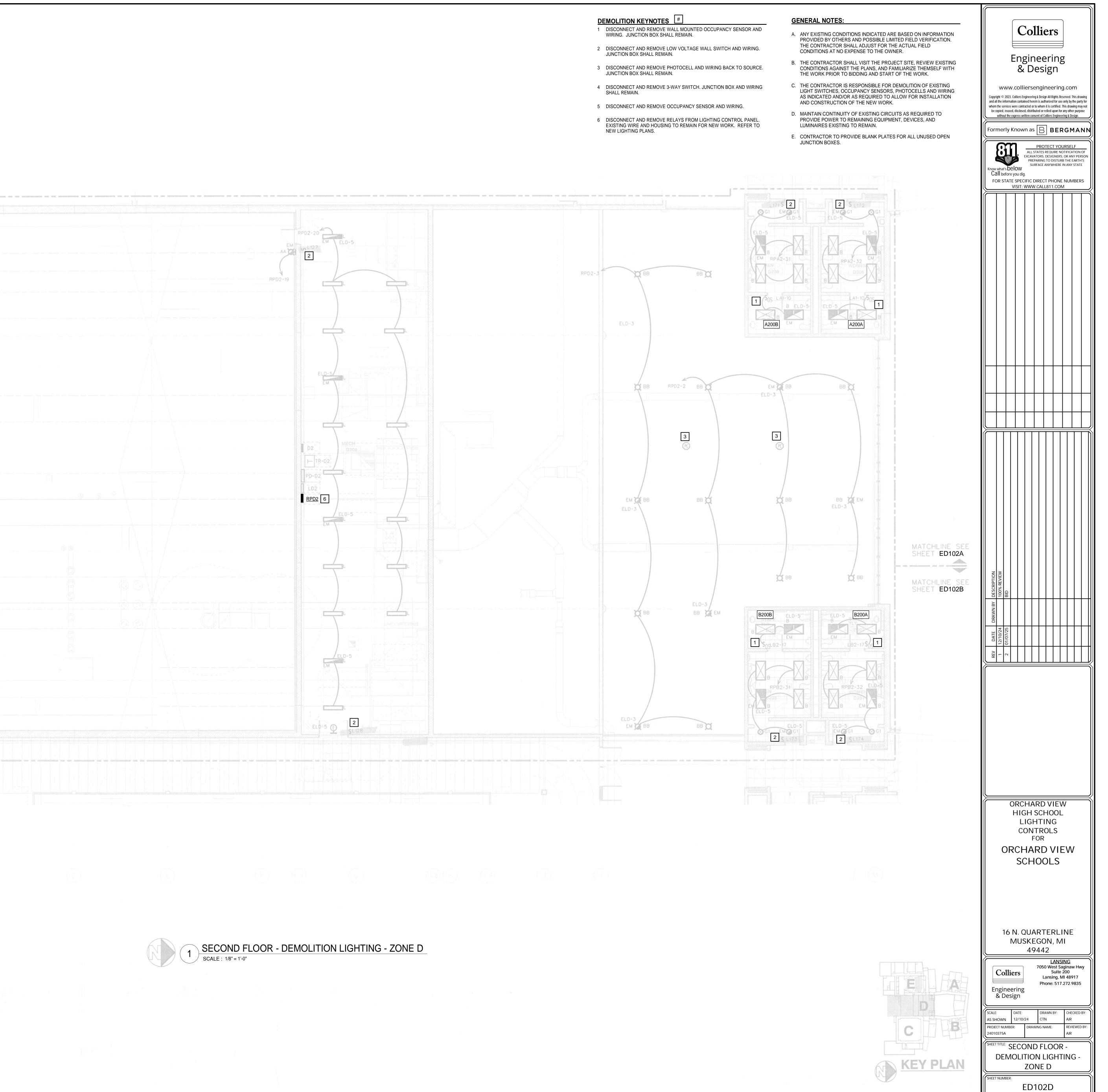
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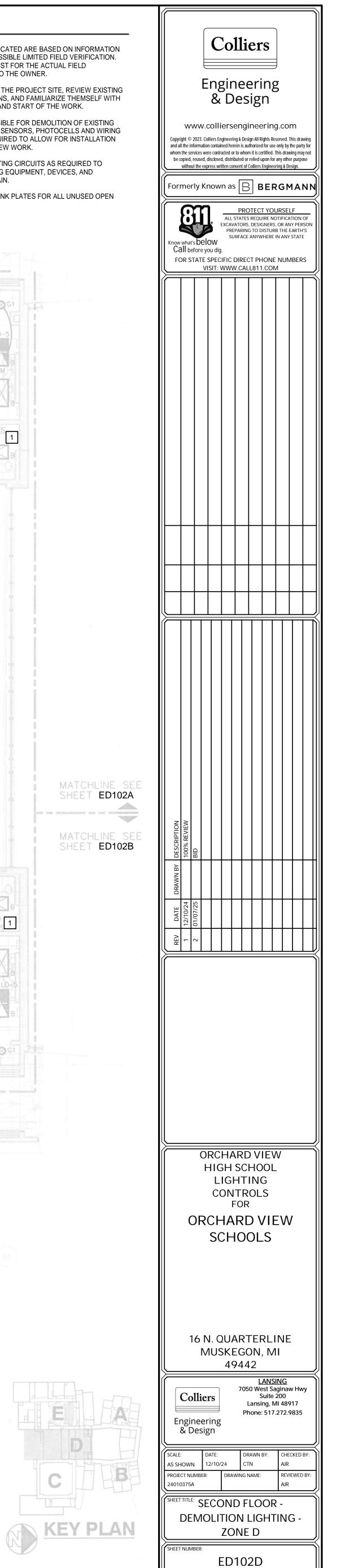


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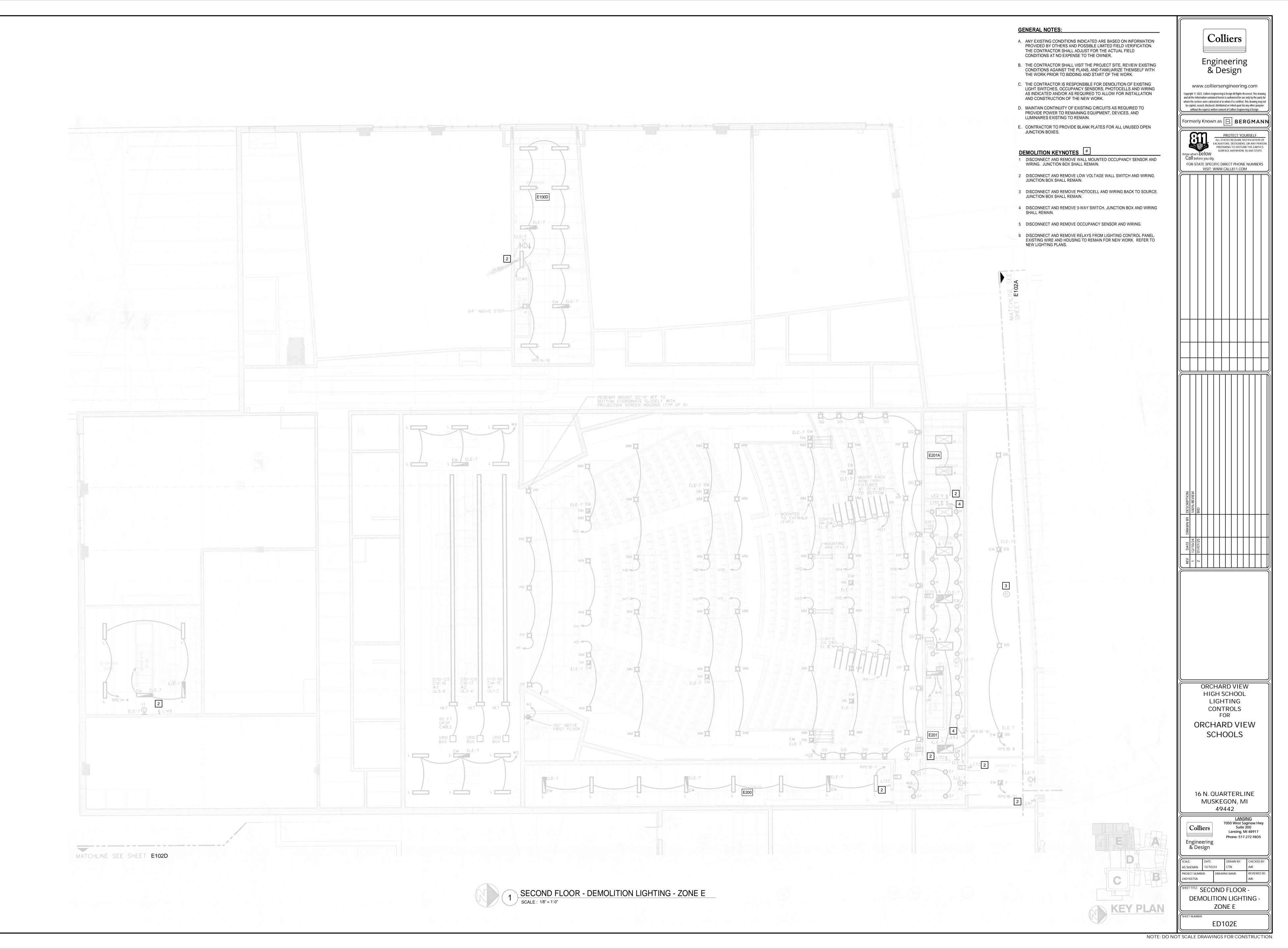


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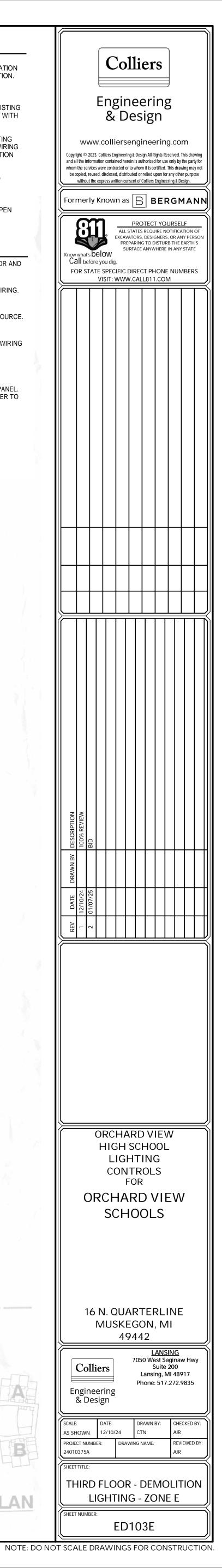
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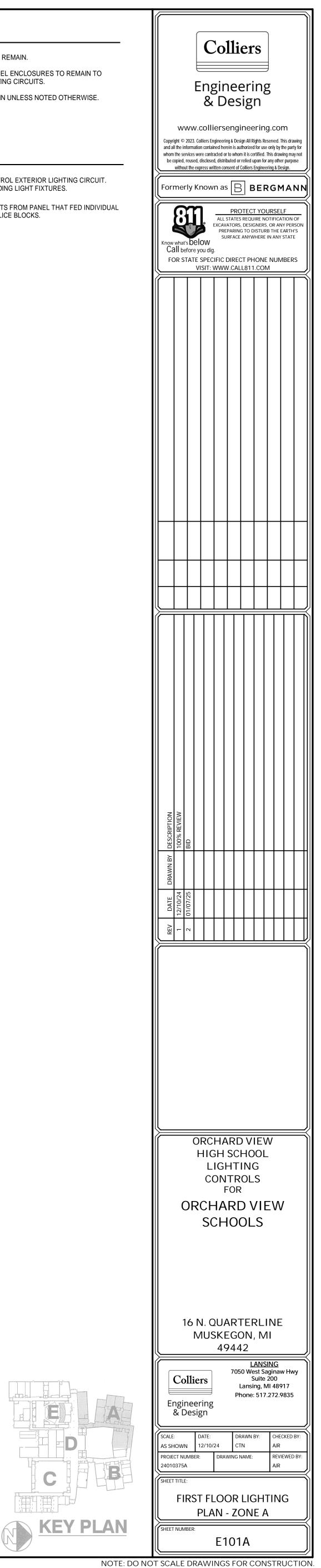




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 C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR CLARITY.

LIGHTING KEYNOTES (#)

- 2 ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUIT. LOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.
- 3 SPLICE EXISTING BRANCH CIRCUITS FROM PANEL THAT FED INDIVIDUAL RELAYS TOGETHER. PROVIDE SPLICE BLOCKS.



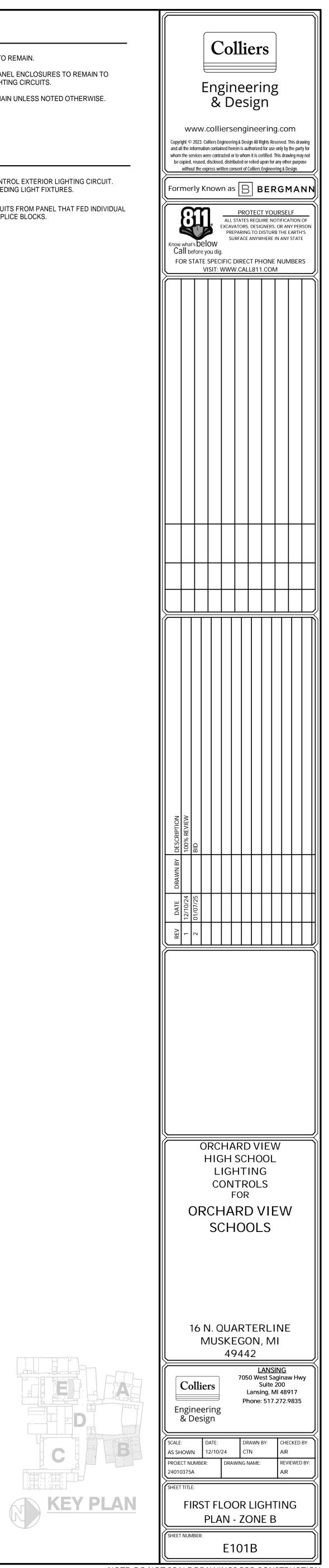
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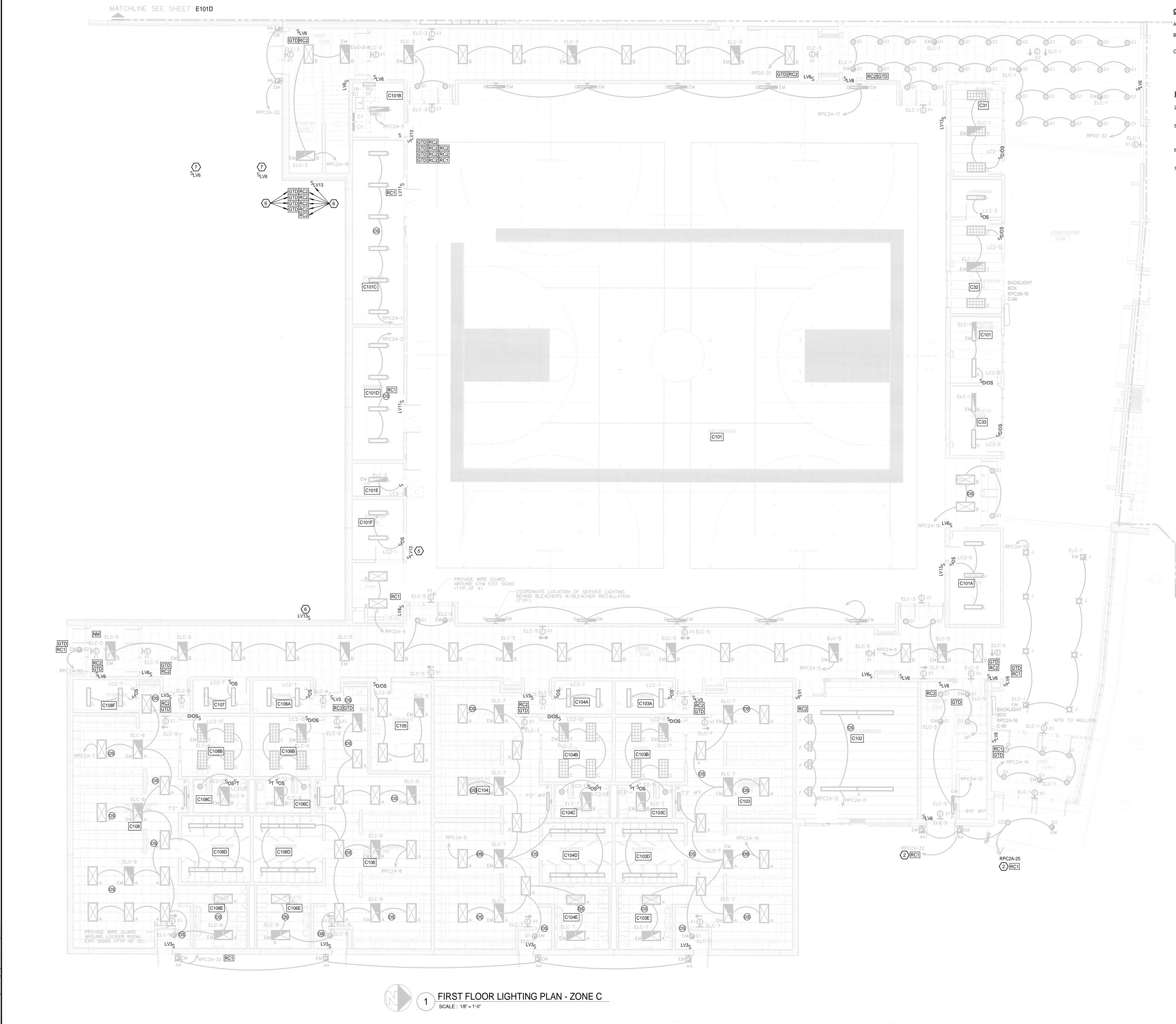
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- 3 SPLICE EXISTING BRANCH CIRCUITS FROM PANEL THAT FED INDIVIDUAL RELAYS TOGETHER. PROVIDE SPLICE BLOCKS.



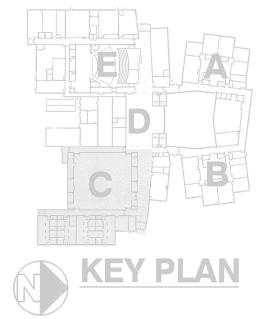
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

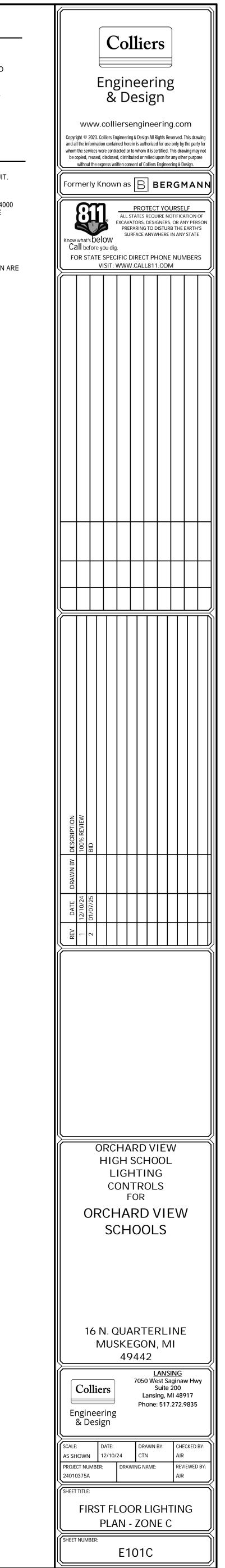


- A. ALL LUMINAIRES ARE EXISTING TO REMAIN.
- B. EXISTING LIGHTING CONTROL PANEL ENCLOSURES TO REMAIN TO SERVE AS PULL BOXES FOR LIGHTING CIRCUITS.
- C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR CLARITY.

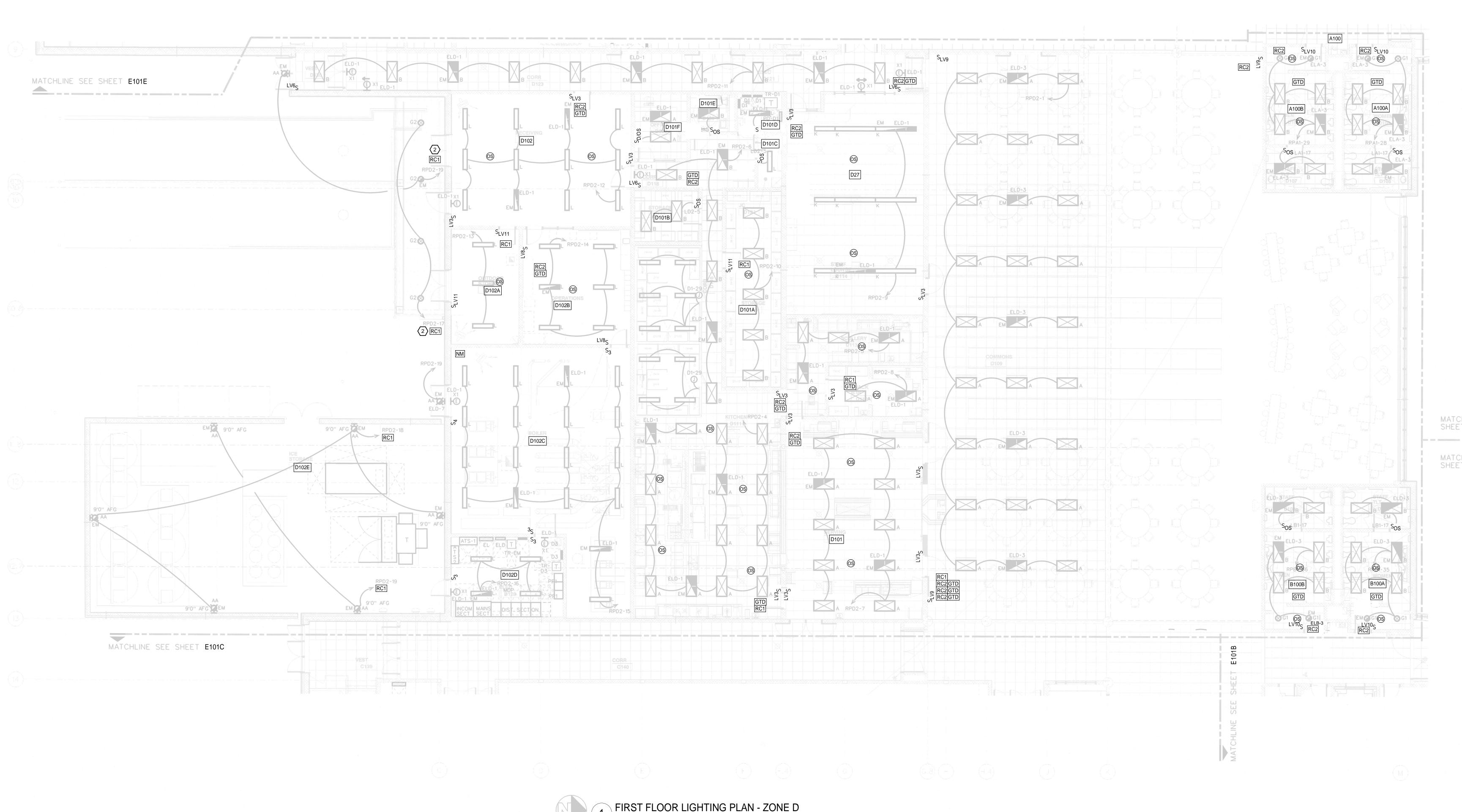
<u>LIGHTING KEYNOTES (#)</u>

- 2 ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUIT. LOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.
- 5 PROVIDE STEEL DUAL CHANNEL SURFACE EQUAL TO WIREMOLD 4000 SERIES. PROVIDE ALL NECESSARY COMPONENTS FOR COMPLETE SYSTEM.
- 6 GYM ADDITION AREA NOT SHOWN ON PLANS. PROVIDE DEVICES SHOWN. COORDINATE IN FIELD.
- 7 STAIRWELL NOT SHOWN CORRECTLY ON PLANS. DEVICES SHOWN ARE PART OF STAIRWELL. COORDINATE IN FIELD.





NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 FIRST FLOOR LIGHTING PLAN - ZONE D SCALE : 1/8" = 1'-0"

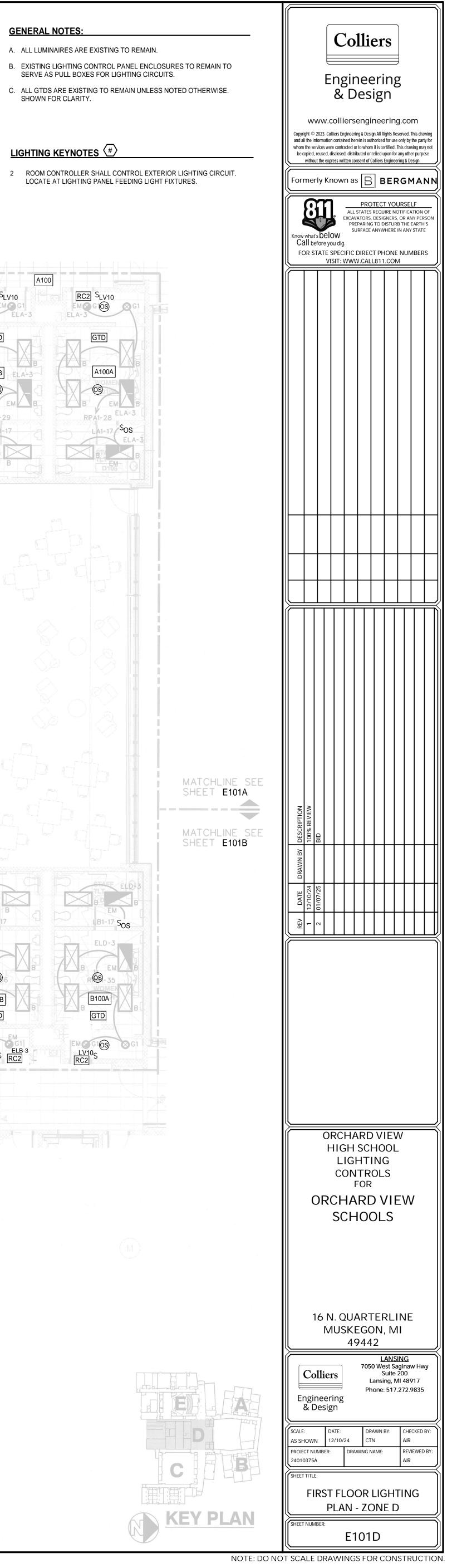
GENERAL NOTES:

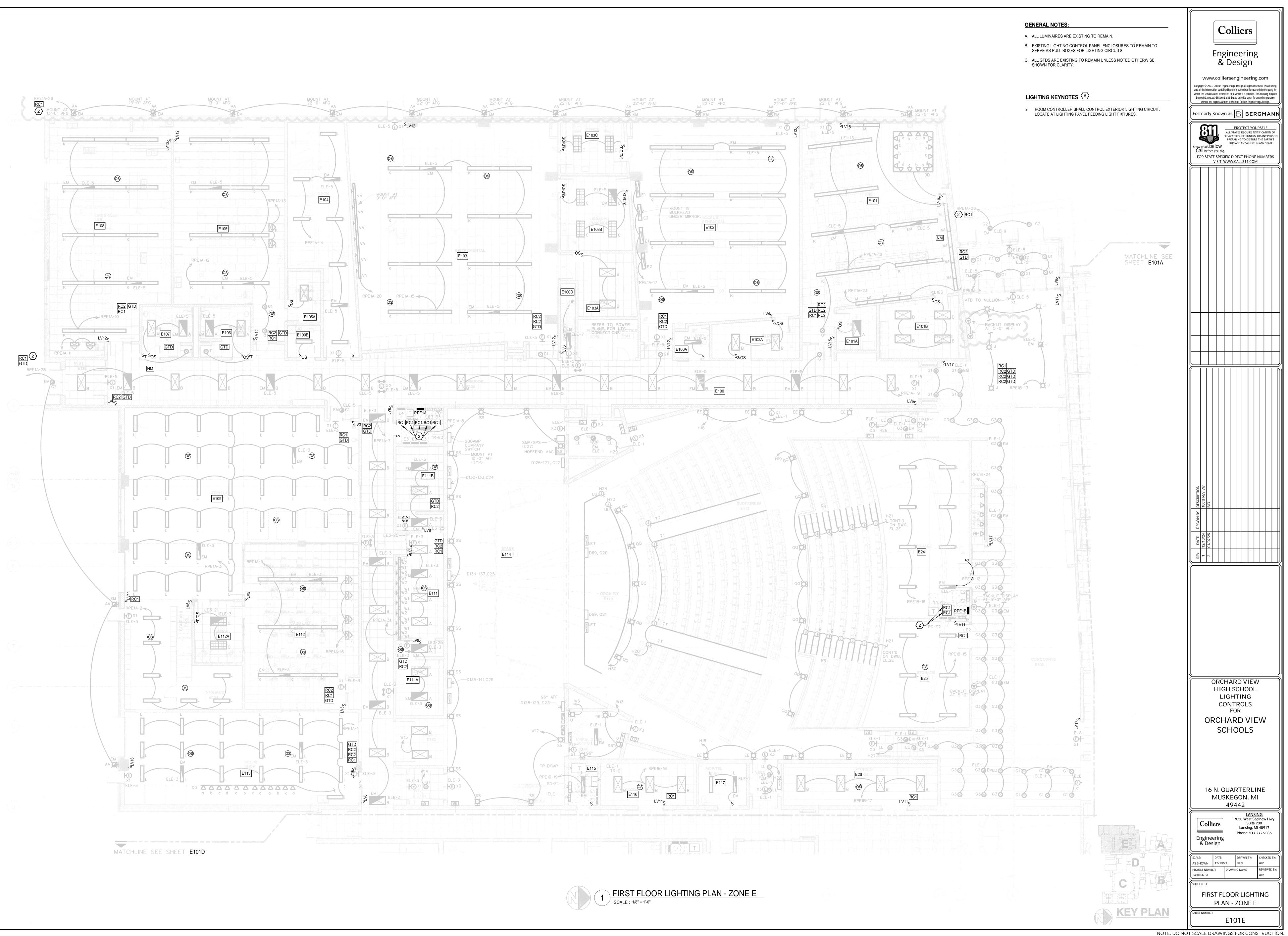
A. ALL LUMINAIRES ARE EXISTING TO REMAIN.

C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR CLARITY.

LIGHTING KEYNOTES

2 ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUIT. LOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.







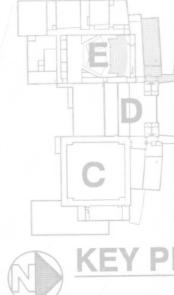
css://Orchard View High School - Lighting Controls/24010375A_Elec202

GENERAL NOTES:

- A. ALL LUMINAIRES ARE EXISTING TO REMAIN.
- B. EXISTING LIGHTING CONTROL PANEL ENCLOSURES TO REMAIN TO SERVE AS PULL BOXES FOR LIGHTING CIRCUITS.C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR CLARITY.

LIGHTING KEYNOTES

- 2 ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUIT. LOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.
- 5 OFFICE AREA NOT SHOWN ON PLANS. PROVIDE DEVICES SHOWN. COORDINATE IN FIELD.



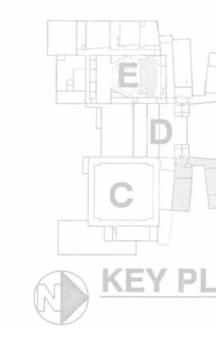
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LIGHTING CONTROLS FOR
CHARD VIEW SCHOOLS
. QUARTERLINE USKEGON, MI 49442
LANSING 7050 West Saginaw Hwy Suite 200 Lansing, MI 48917
Phone: 517.272.9835
TE: DRAWN BY: CHECKED BY: /10/24 CTN AJR DRAWING NAME: REVIEWED BY: AJR
D FLOOR LIGHTING
LAN - ZONE A



A. ALL LUMINAIRES ARE EXISTING TO REMAIN.

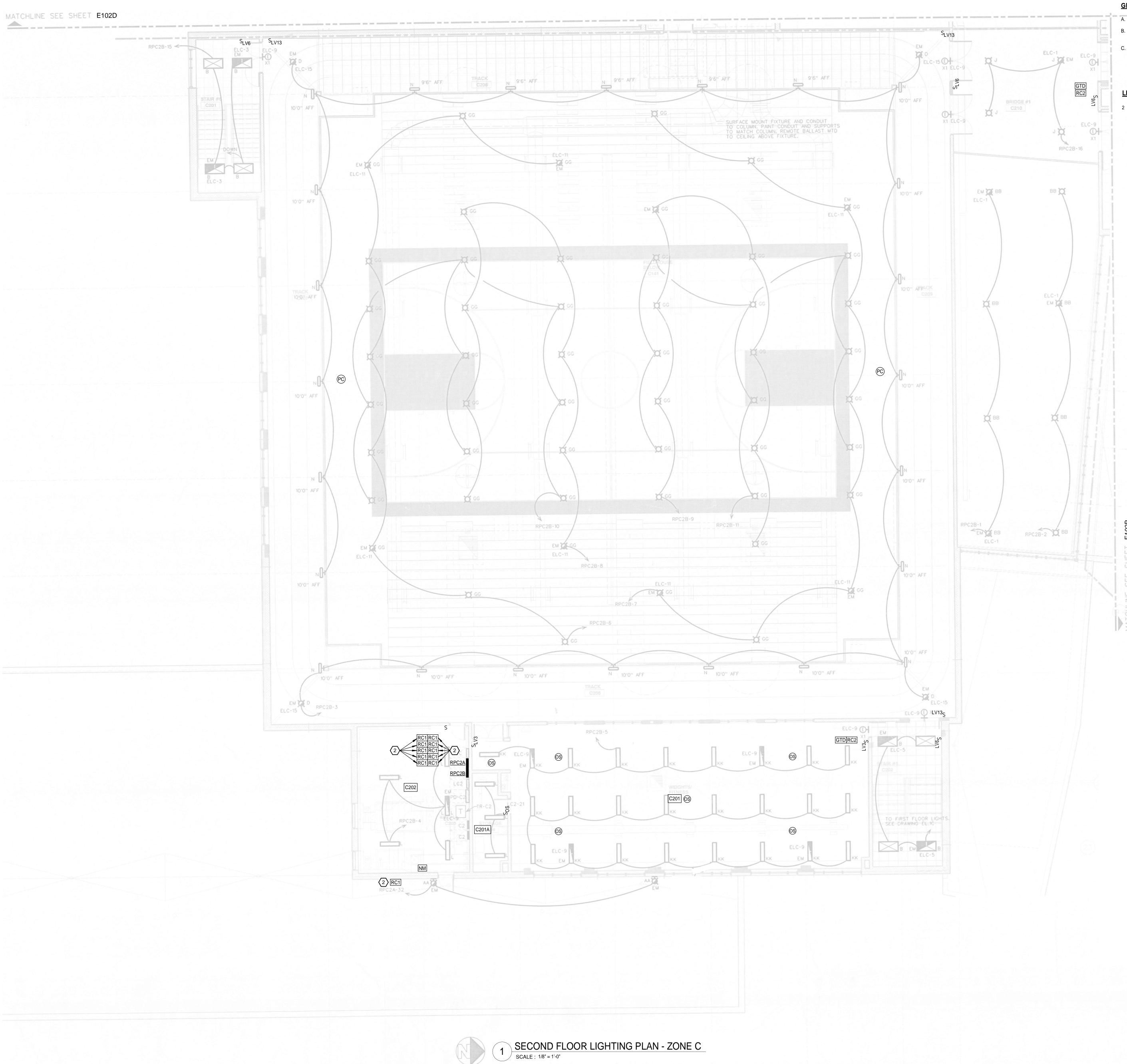
B. EXISTING LIGHTING CONTROL PANEL ENCLOSURES TO REMAIN TO SERVE AS PULL BOXES FOR LIGHTING CIRCUITS.

C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR CLARITY.



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	FOR ORCHARD VIEW SCHOOLS
	16 N. QUARTERLINE MUSKEGON, MI 49442
	LANSINGColliers7050 West Saginaw Hwy Suite 200 Lansing, MI 48917 Phone: 517.272.9835EngineeringPhone: 517.272.9835
	& Design SCALE: DATE: DRAWN BY: CHECKED BY: AS SHOWN 12/10/24 CTN AIR PROJECT NUMBER: DRAWING NAME: REVIEWED BY: 24010375A AIR
	SHEET TITLE: SECOND FLOOR LIGHTING PLAN - ZONE B
	SHEET NUMBER: E102B

MATCHLINE SEE SHEET E102D RPC2B-15 <----ELC-3 FIC-C D ELC-15 STAIR #6 C201 10'0" AFF DOWN ELC-3 10'0" AFF TRACK 10:007AFF 10'0" AFF 10'0" AFF 10'0" AFF EM D RPC2B-3



- A. ALL LUMINAIRES ARE EXISTING TO REMAIN.
- B. EXISTING LIGHTING CONTROL PANEL ENCLOSURES TO REMAIN TO SERVE AS PULL BOXES FOR LIGHTING CIRCUITS. C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR CLARITY.

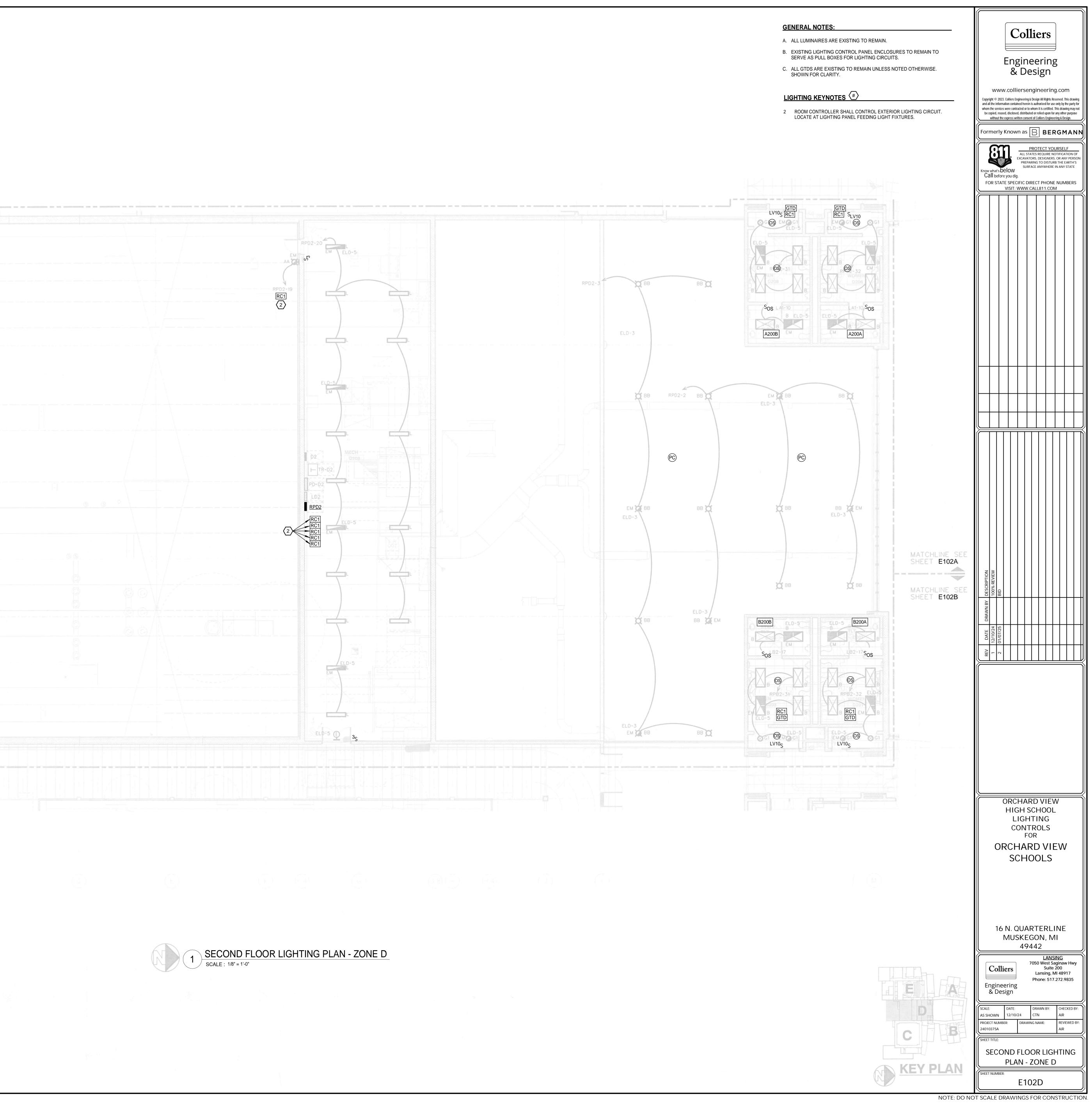
LIGHTING KEYNOTES

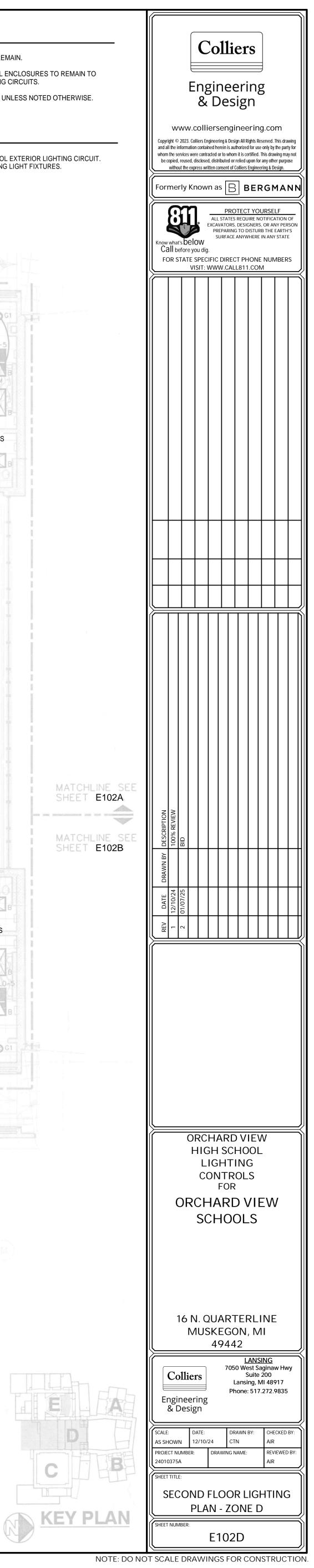
ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUITLOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.



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	HIGH SCHOOL LIGHTING CONTROLS FOR ORCHARD VIEW SCHOOLS
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	AS SHOWN 12/10/24 CTN AJR PROJECT NUMBER: DRAWING NAME: REVIEWED BY: 24010375A AJR SHEET TITLE: SECOND FLOOR LIGHTING PLAN - ZONE C
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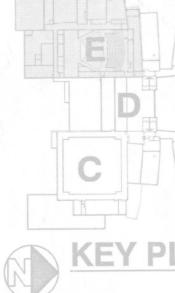




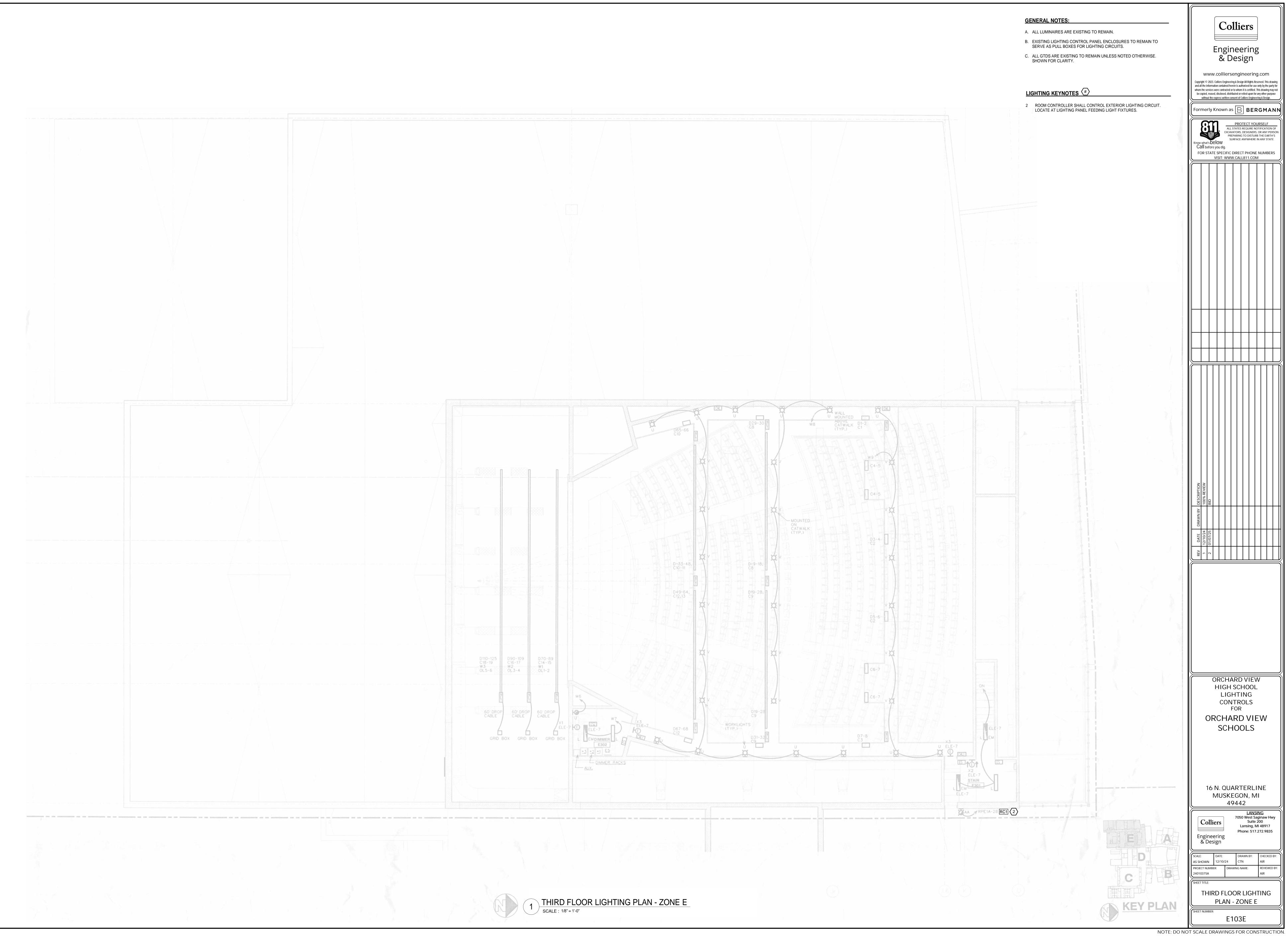
- A. ALL LUMINAIRES ARE EXISTING TO REMAIN.
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LIGHTING KEYNOTES

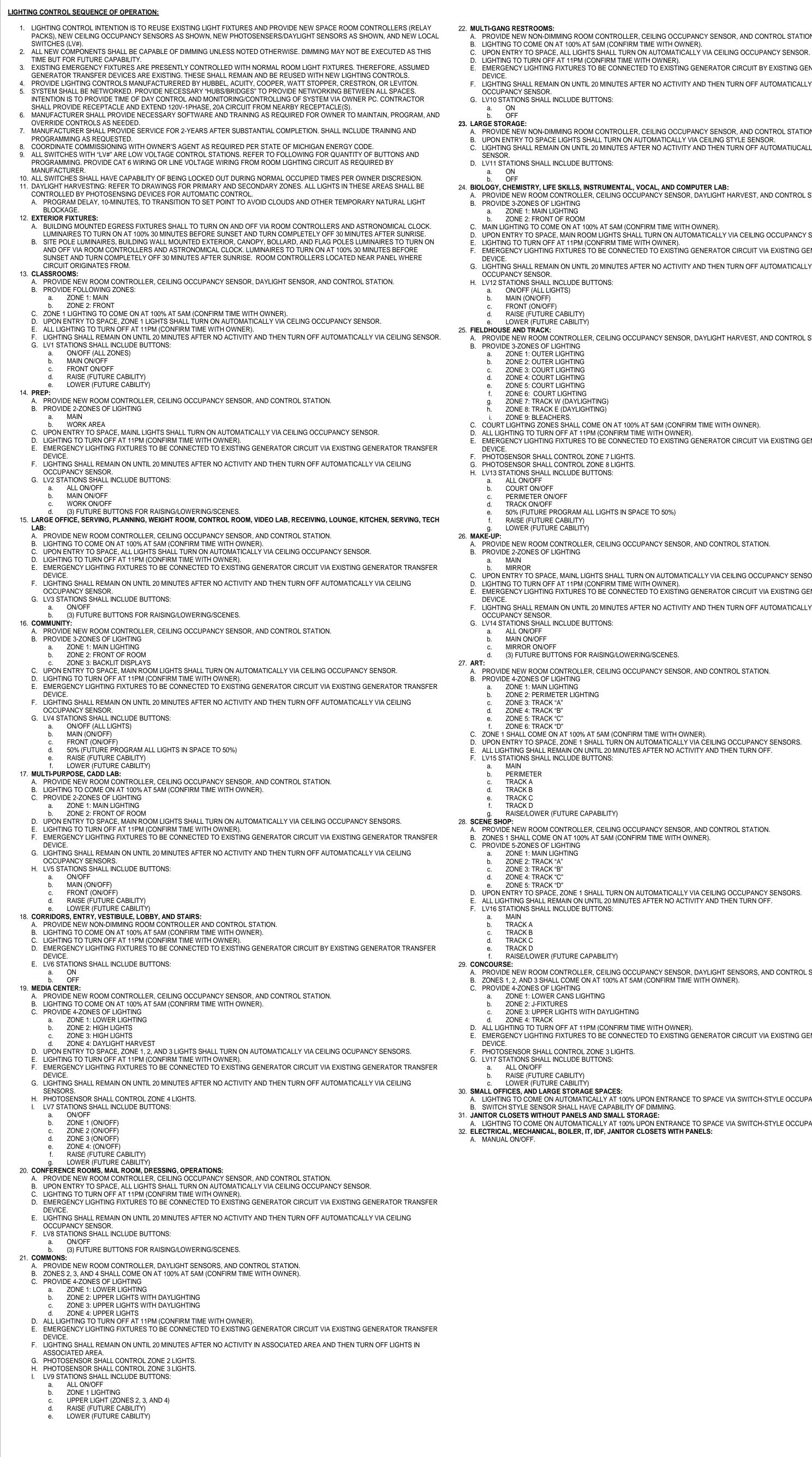
- 1 PHOTOCELL SHALL TURN ON AND OFF ROW OF LIGHTS CLOSEST T WINDOWS.
- 4 TYPE 'H' FIXTURES SHALL REMAIN CONTROLLED THROUGH THEATRICAL.



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B	SHEET TITLE: SECOND FLOOR LIGHTING
AN	PLAN - ZONE E
IOTE: DO NO	E102E







A. PROVIDE NEW NON-DIMMING ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.

E. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT BY EXISTING GENERATOR TRANSFER F. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING

A. PROVIDE NEW NON-DIMMING ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION. B. UPON ENTRY TO SPACE LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING STYLE SENSOR.

C. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATIUCALLY VIA CEILING STYLE

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT HARVEST, AND CONTROL STATION.

D. UPON ENTRY TO SPACE, MAIN ROOM LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR. F. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER G. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT HARVEST, AND CONTROL STATION.

C. COURT LIGHTING ZONES SHALL COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).

E. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.

C. UPON ENTRY TO SPACE, MAINL LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER F. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.

UPON ENTRY TO SPACE, ZONE 1 SHALL TÜRN ON AUTOMATICALLY VIA ĆEILING OCCUPANCY SENSORS. . ALL LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF.

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.

UPON ENTRY TO SPACE, ZONE 1 SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSORS. E. ALL LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF.

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT SENSORS, AND CONTROL STATION.

E. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER

A. LIGHTING TO COME ON AUTOMATICALLY AT 100% UPON ENTRANCE TO SPACE VIA SWITCH-STYLE OCCUPANCY SENSOR.

A. LIGHTING TO COME ON AUTOMATICALLY AT 100% UPON ENTRANCE TO SPACE VIA SWITCH-STYLE OCCUPANCY SENSOR.

NEUTRAL/WHITE FARTH GROUND LV1 CEILING DUAL TECH OCCUPANCY SENSOR • • •

BLACK

BLACK

BLACK

ROOM CONTROLLER LV1

UNSWITCHED NORMAL

HOT BLK

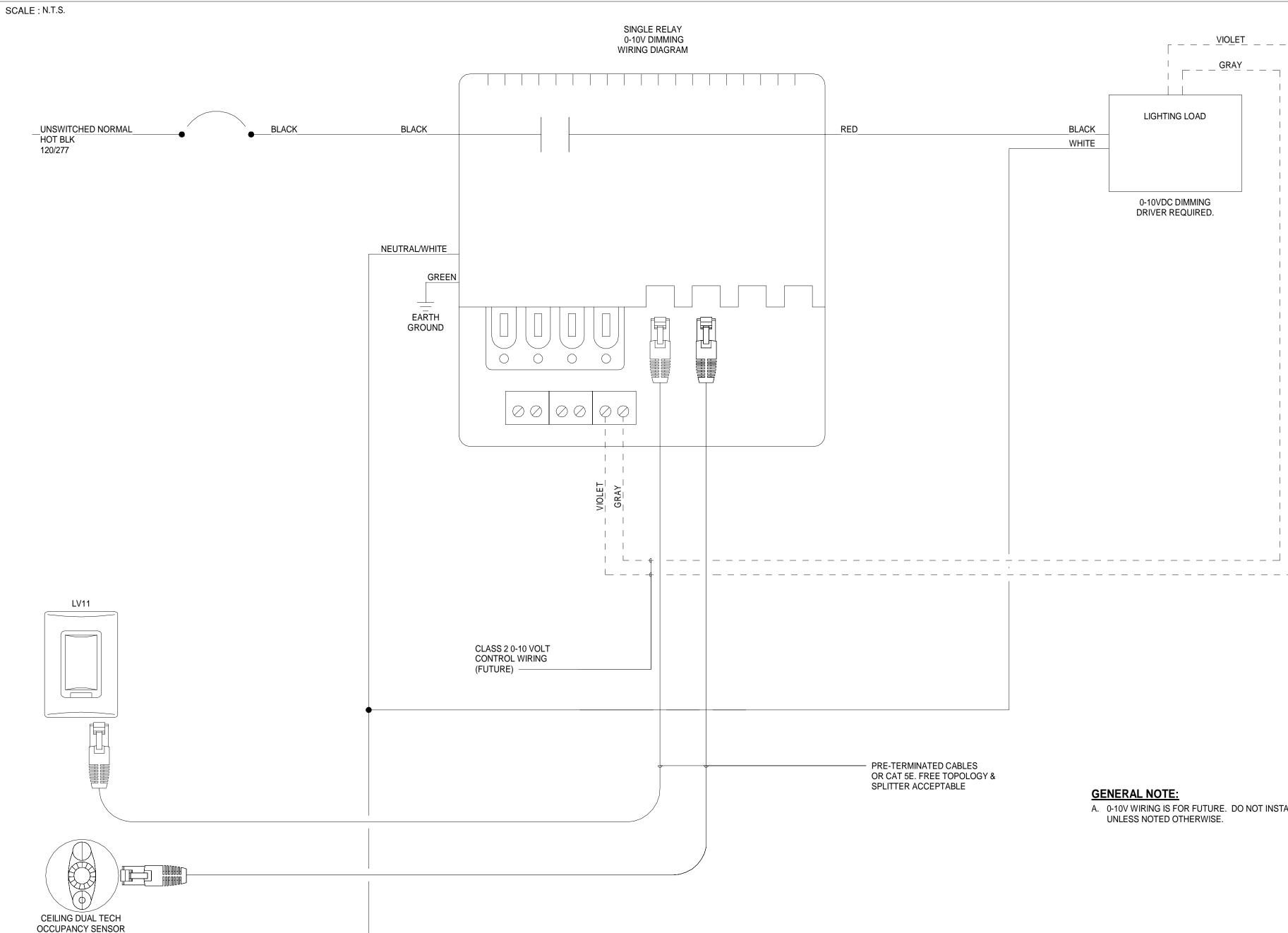
120/277

BLACK UNSWITCHED NORMAL HOT BLK

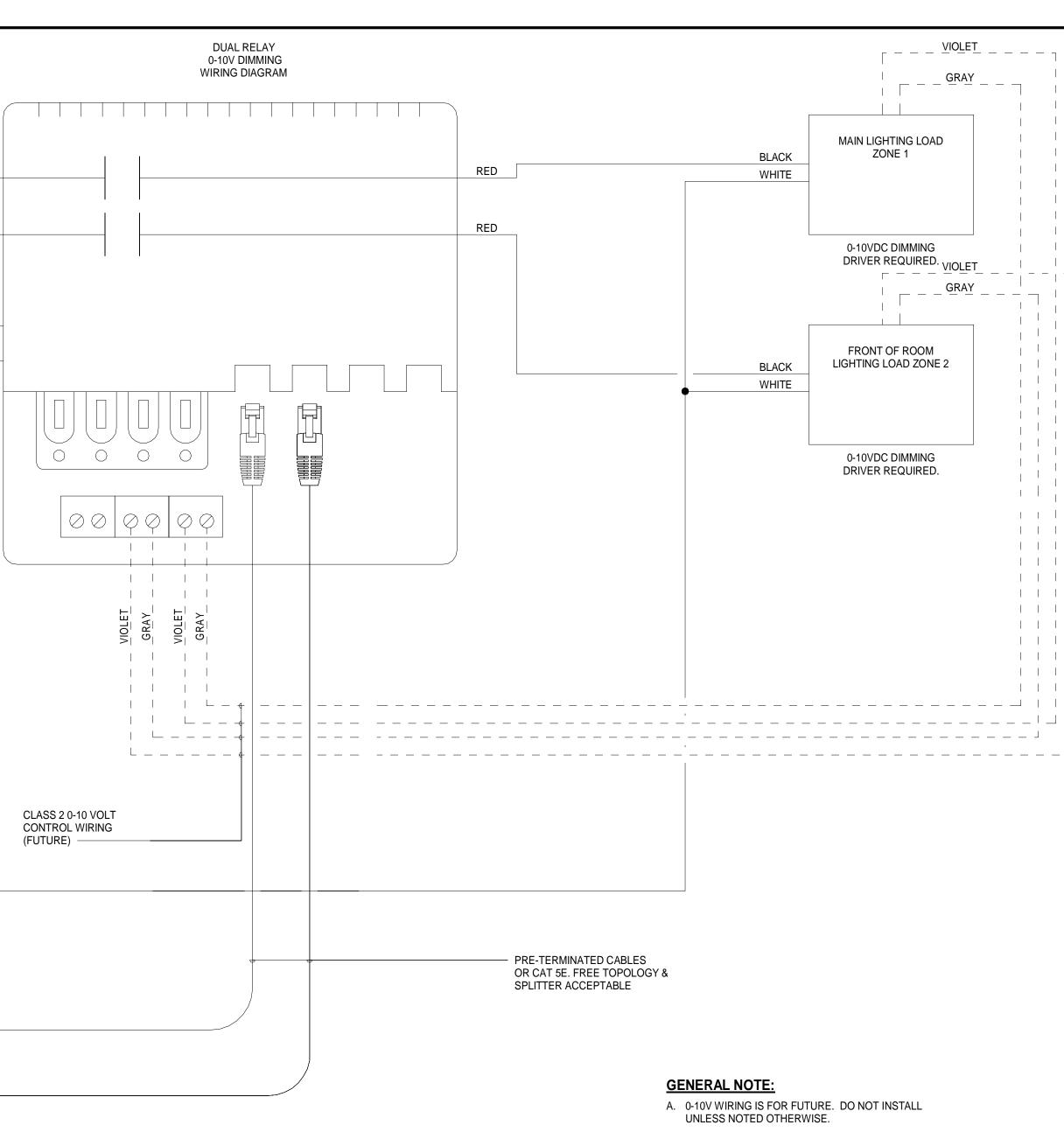
NEUTRAL BUS

• • • NEUTRAL BUS NORMAL PANEL

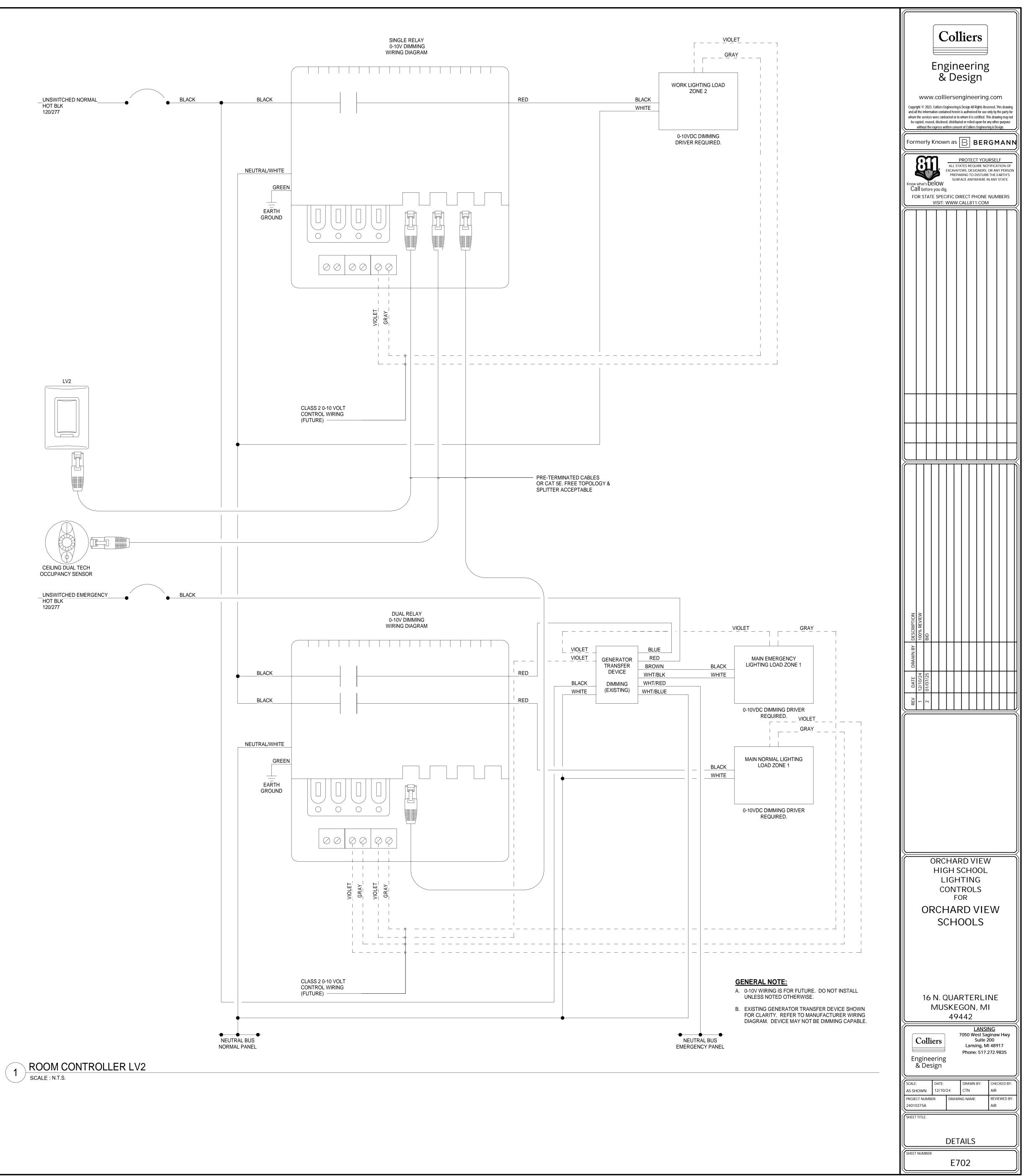
NORMAL PANEL



ROOM CONTROLLER LV11 SCALE : N.T.S.

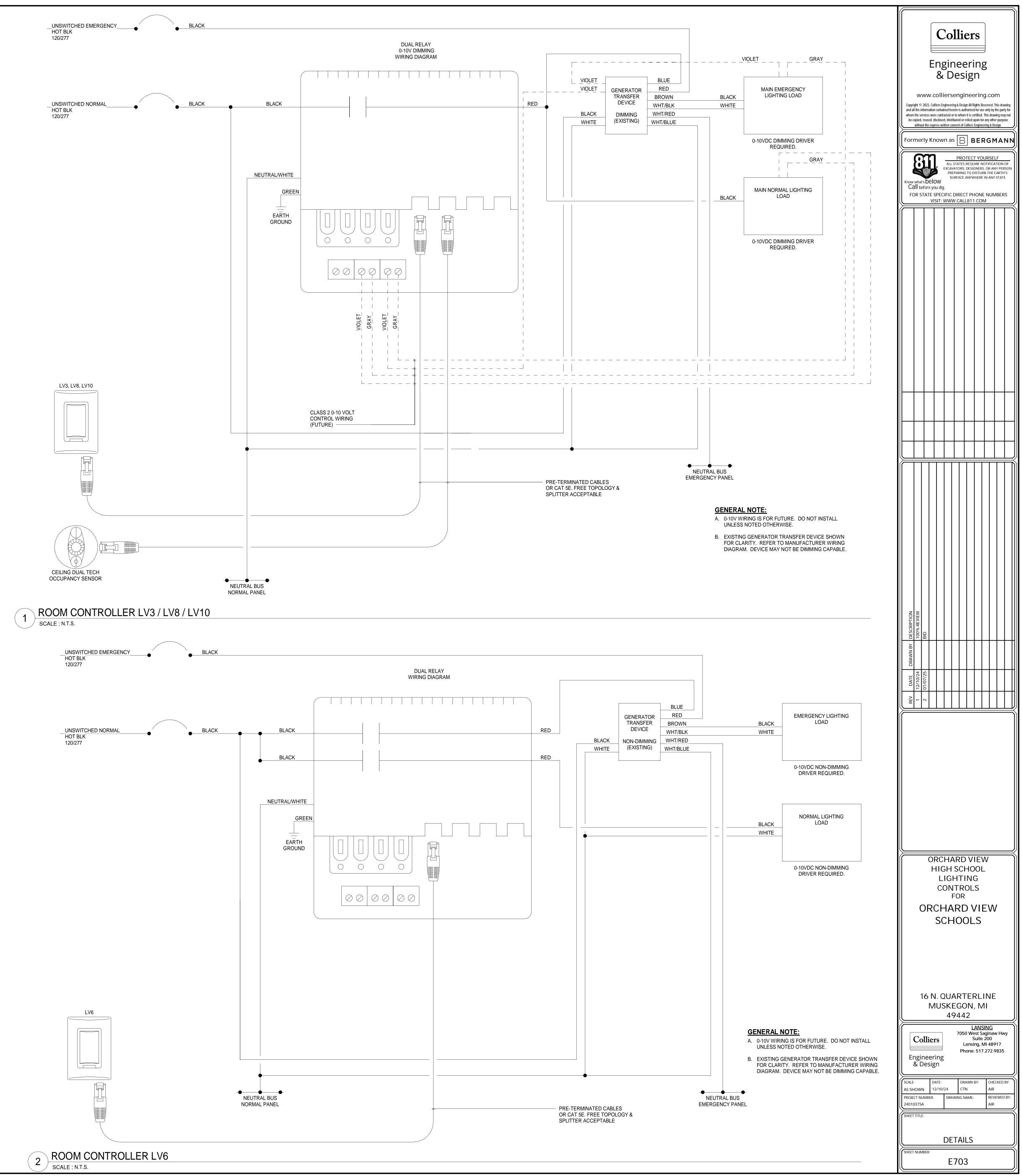


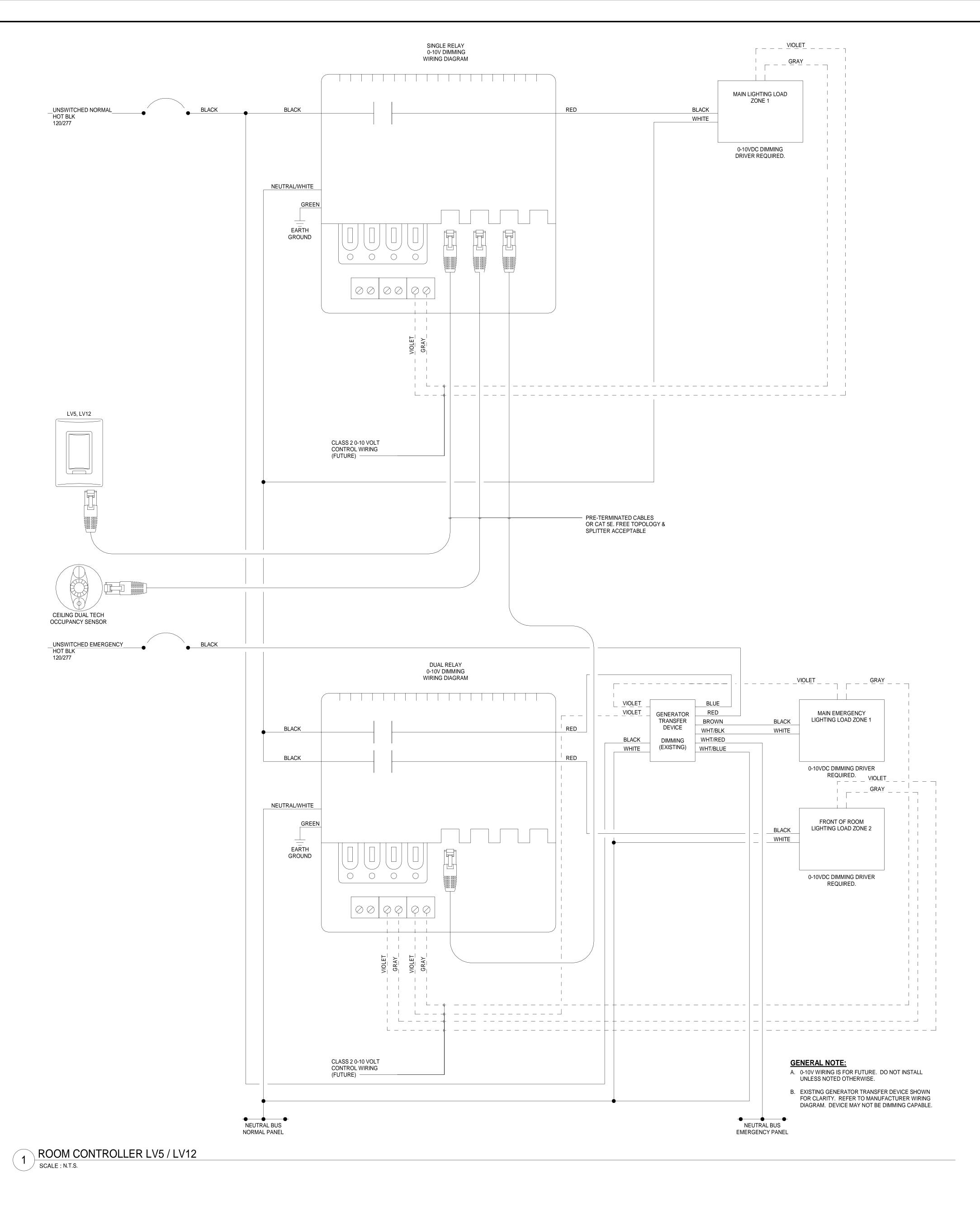
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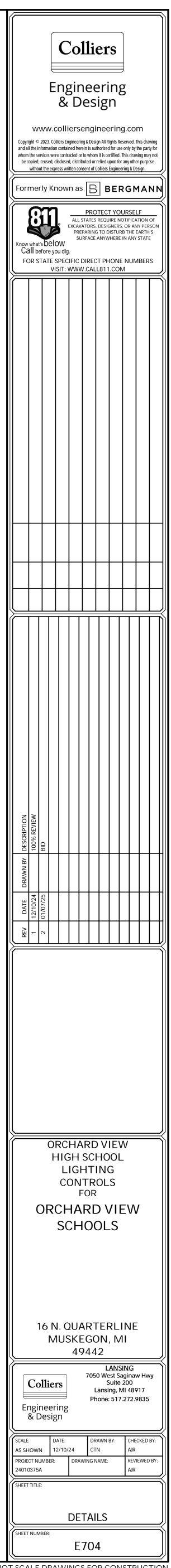


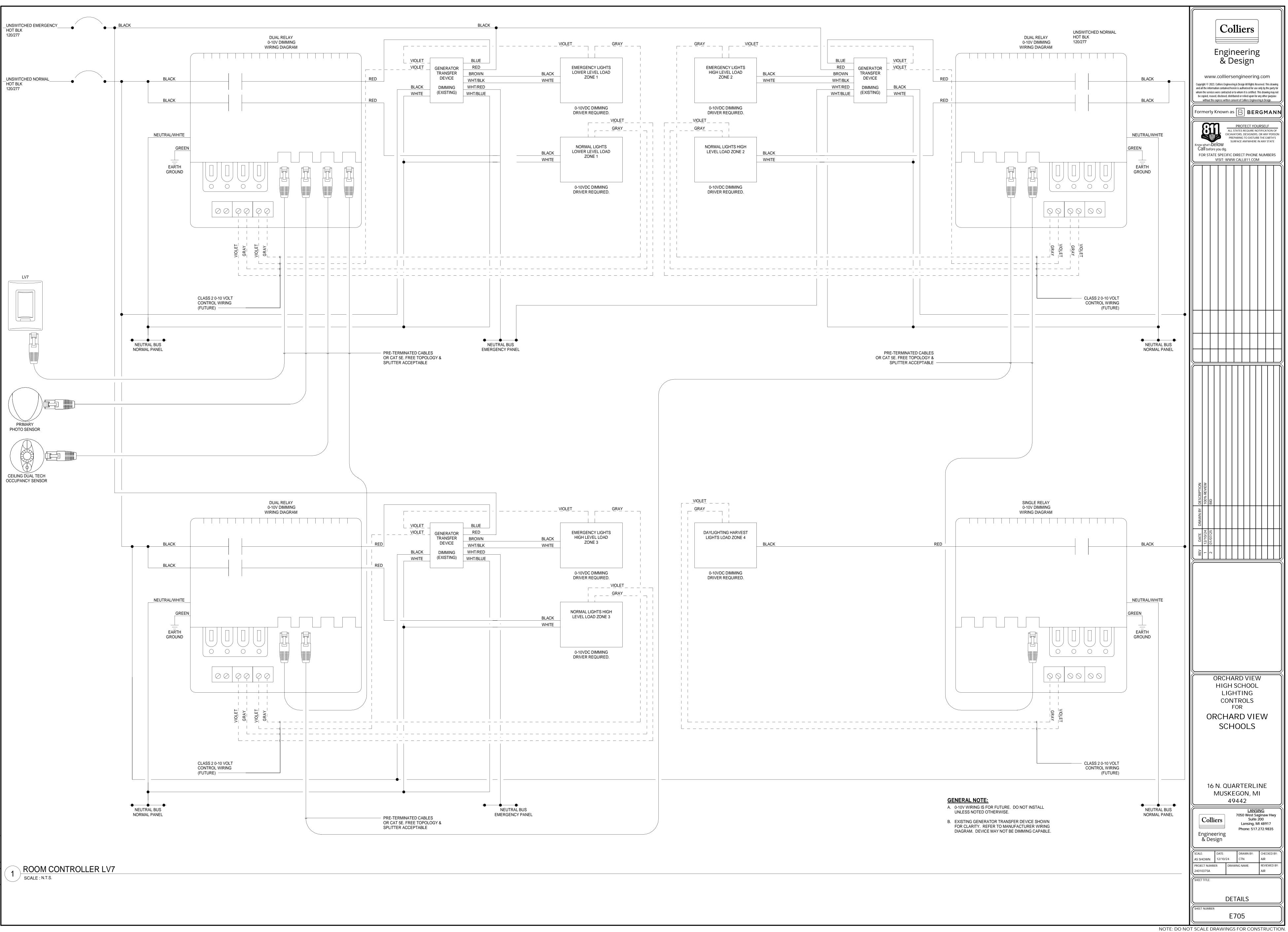
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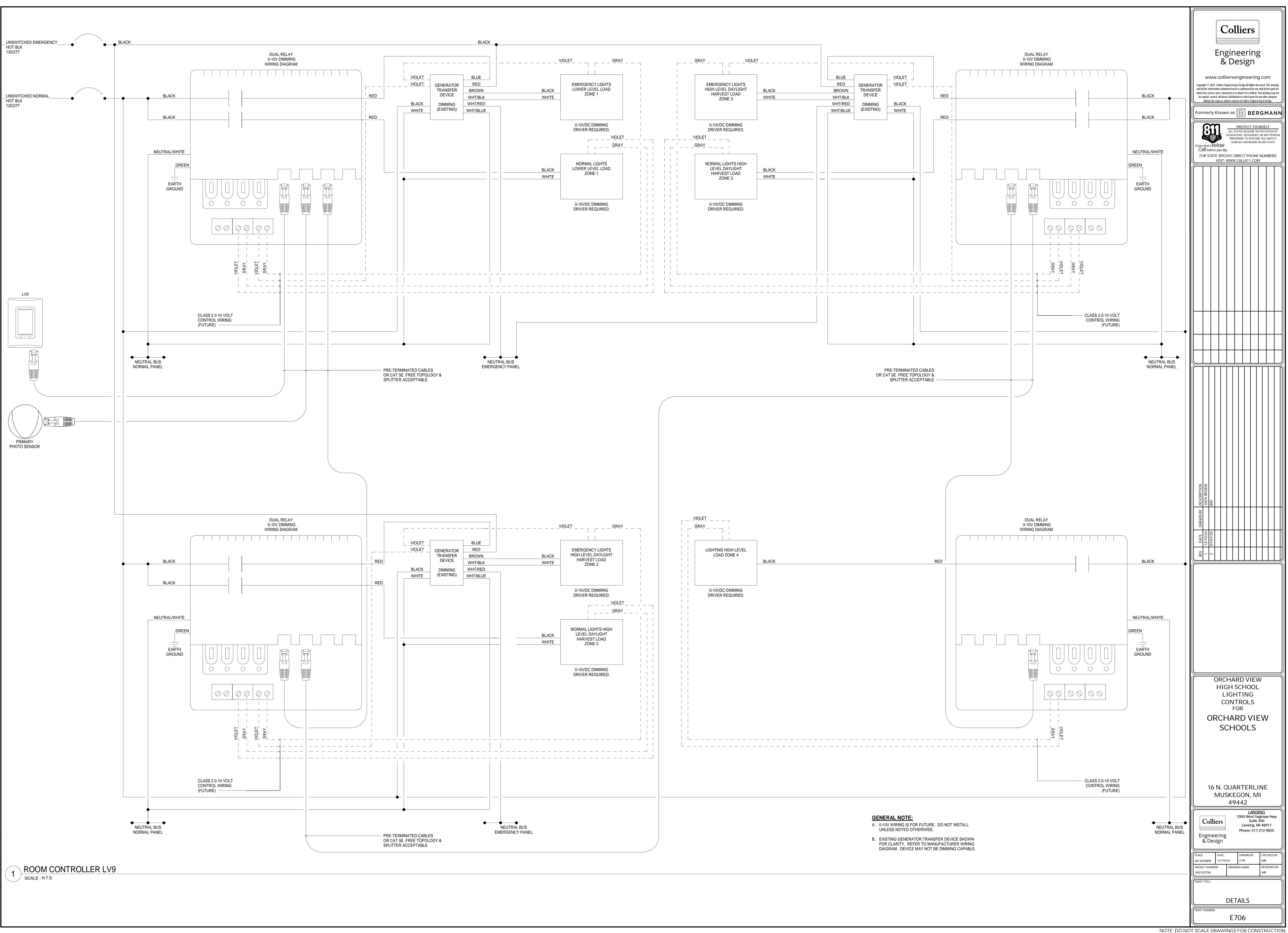


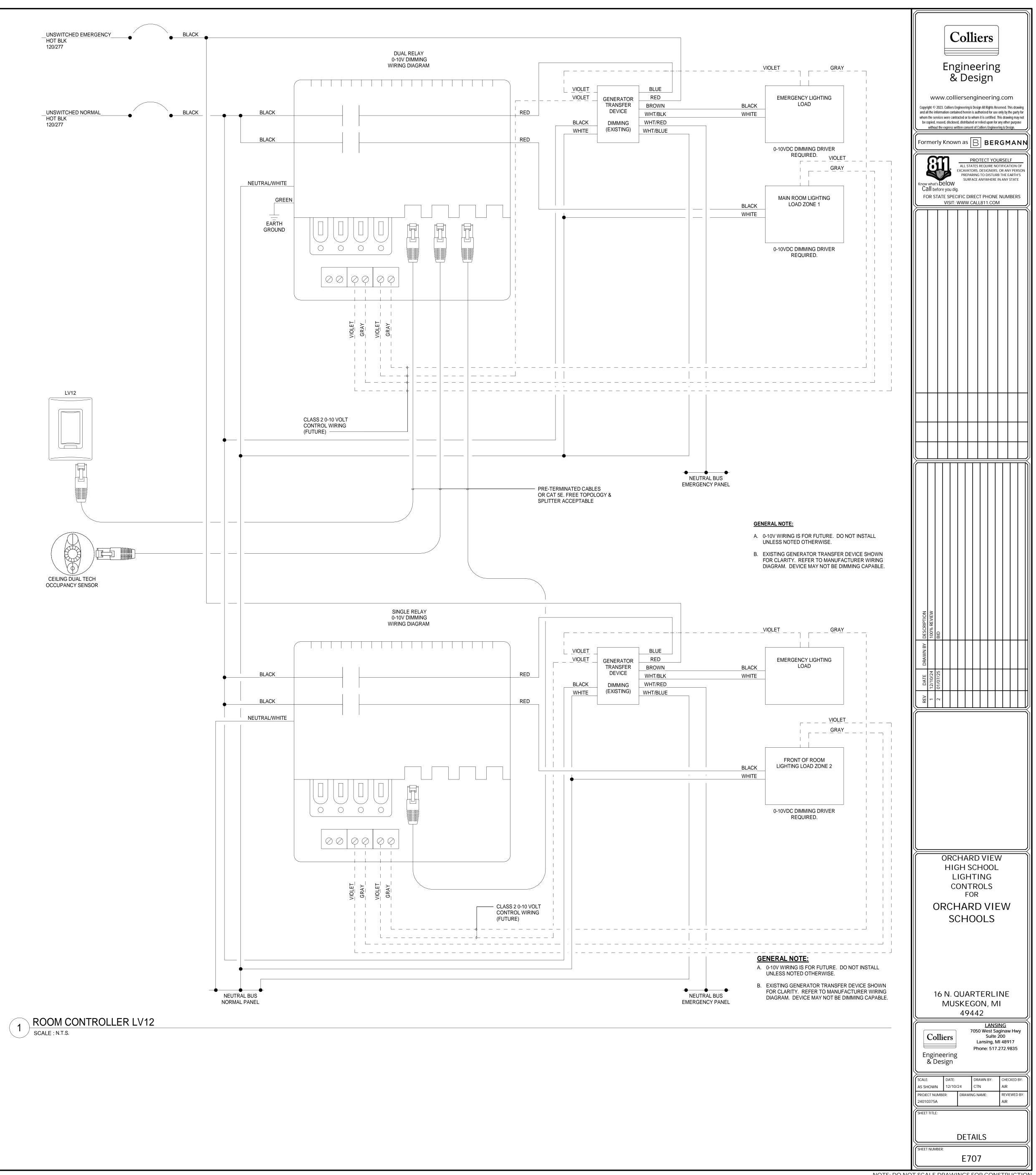


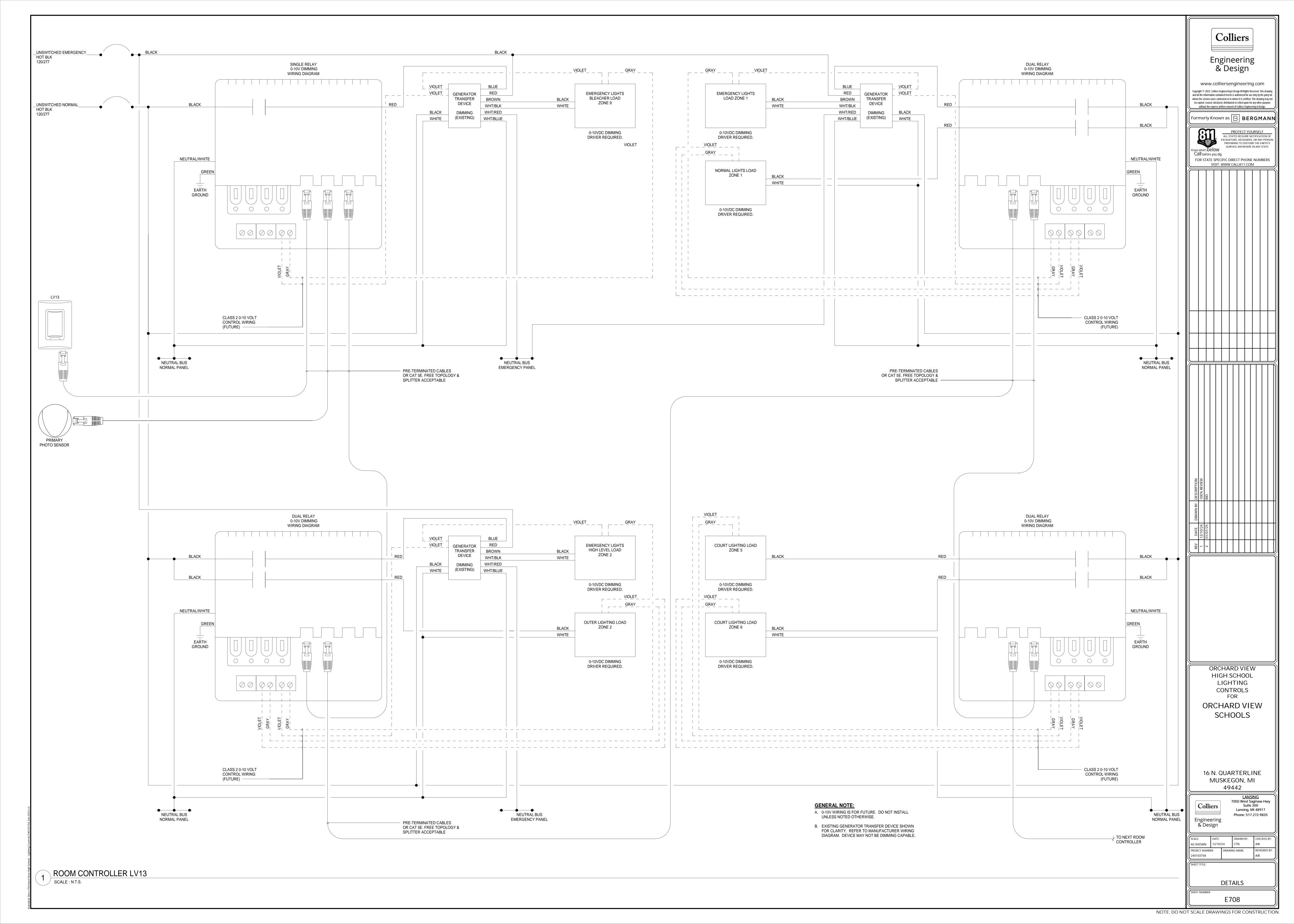


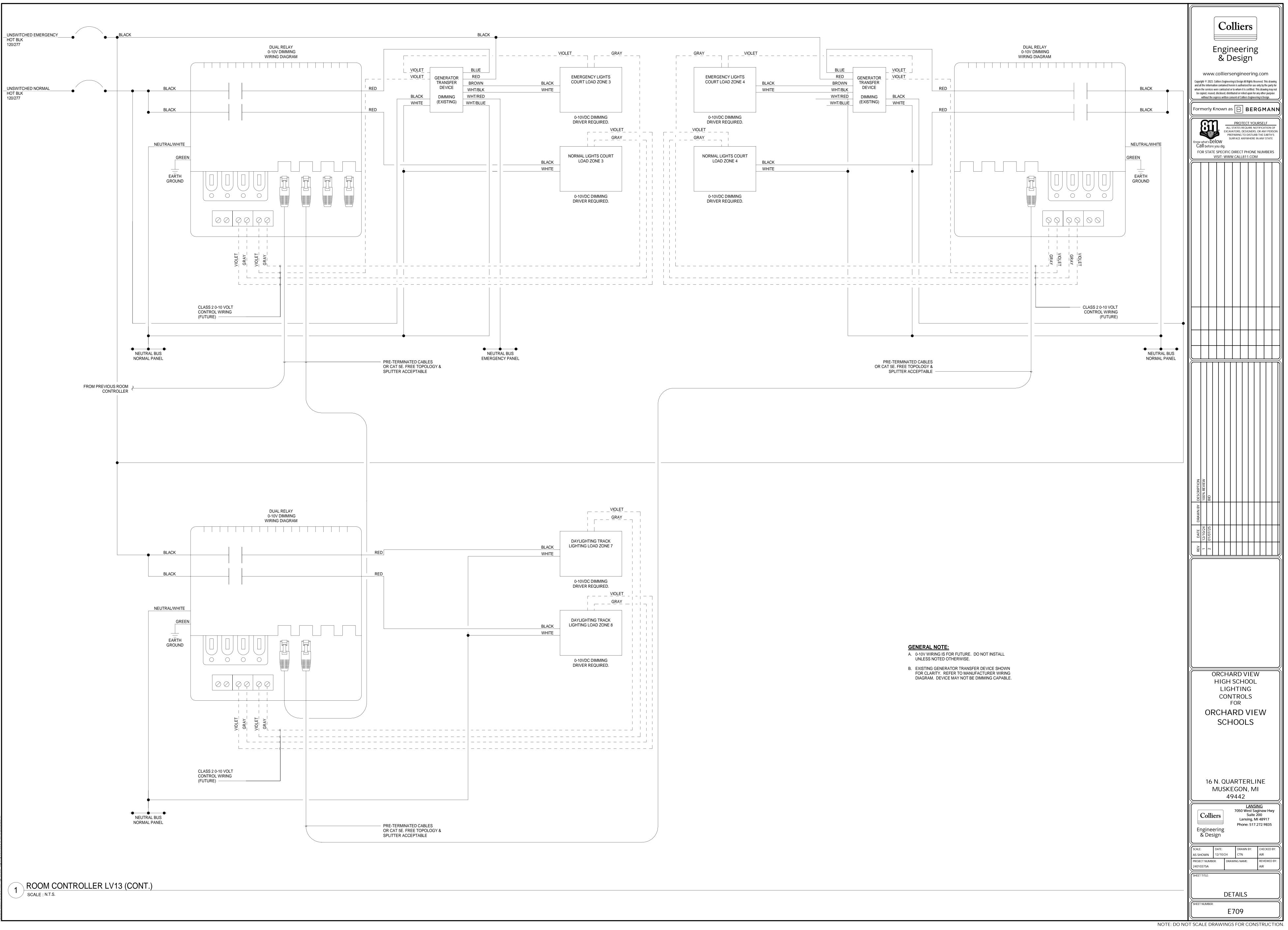


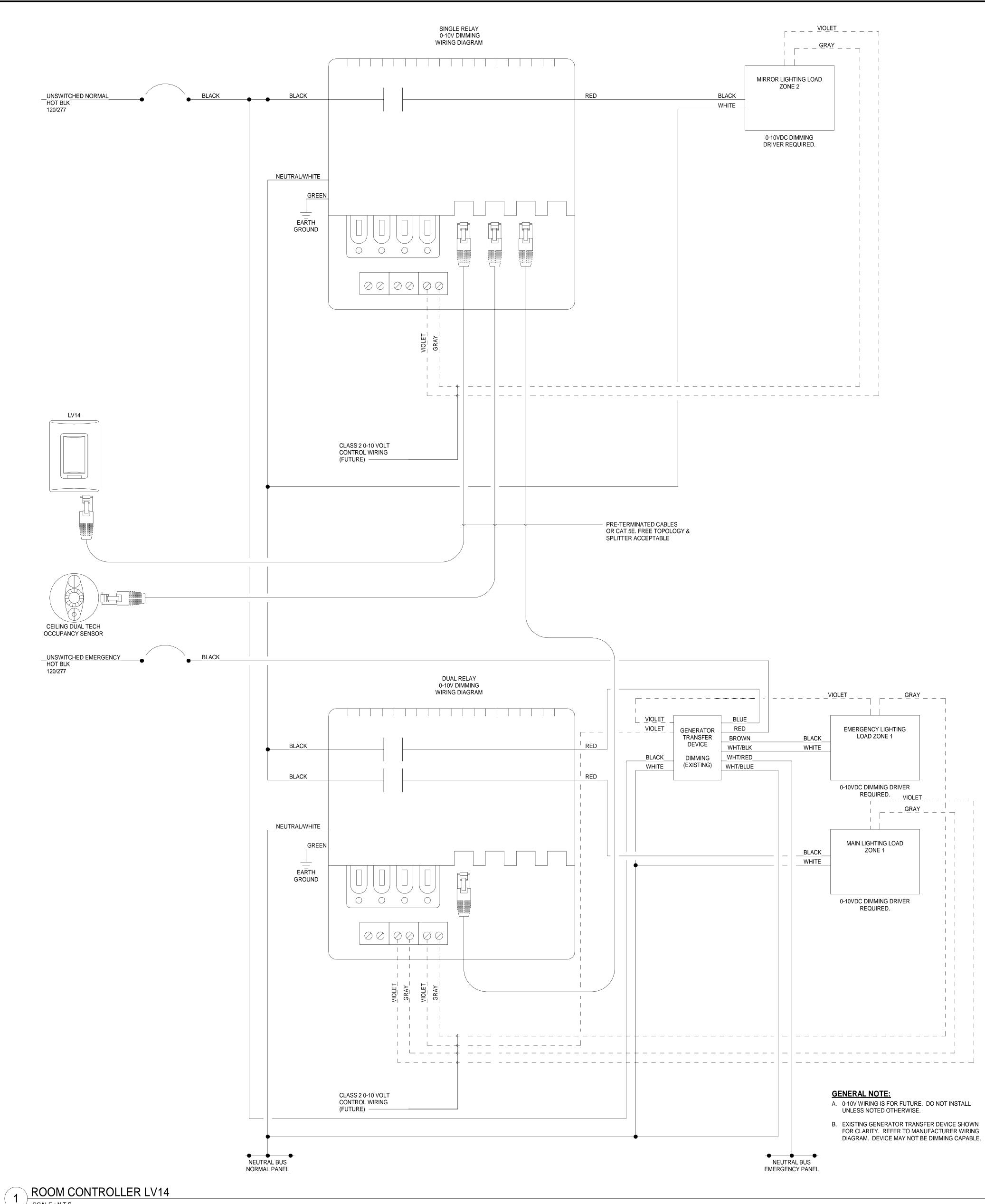




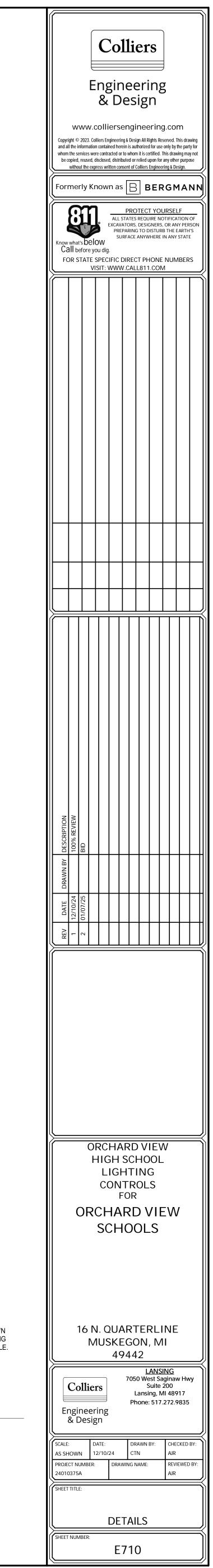




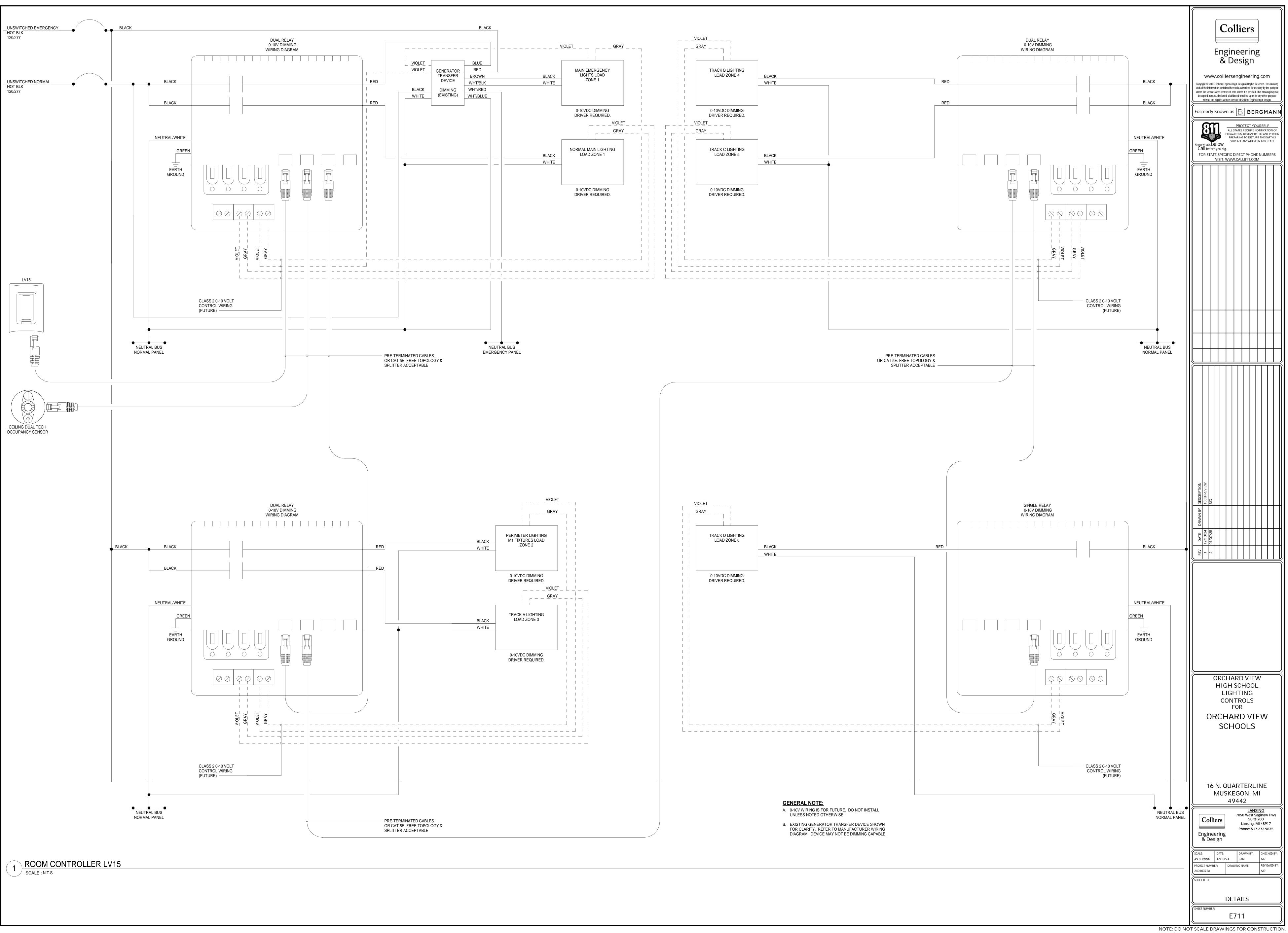


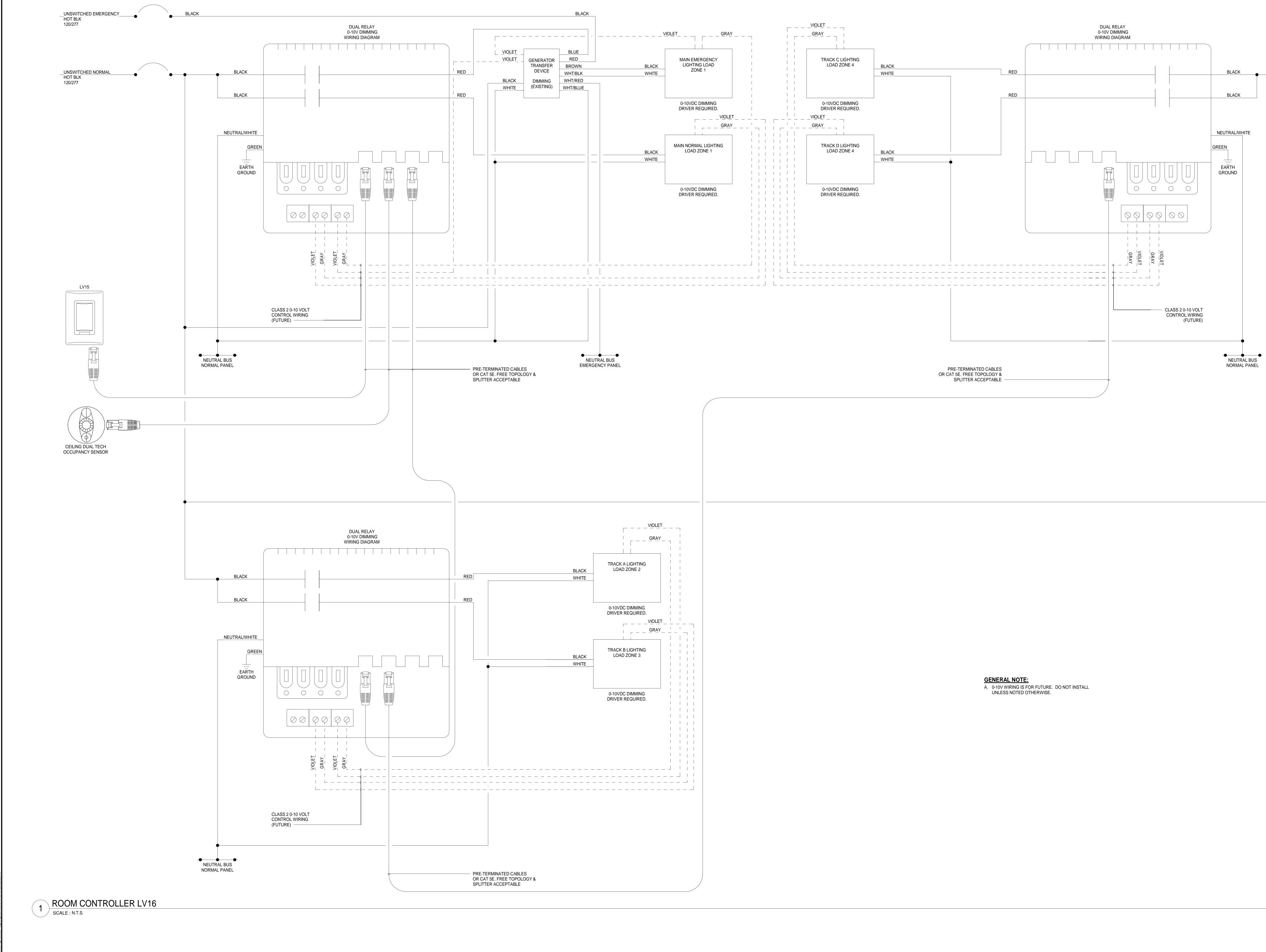


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