

01/07/2025

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

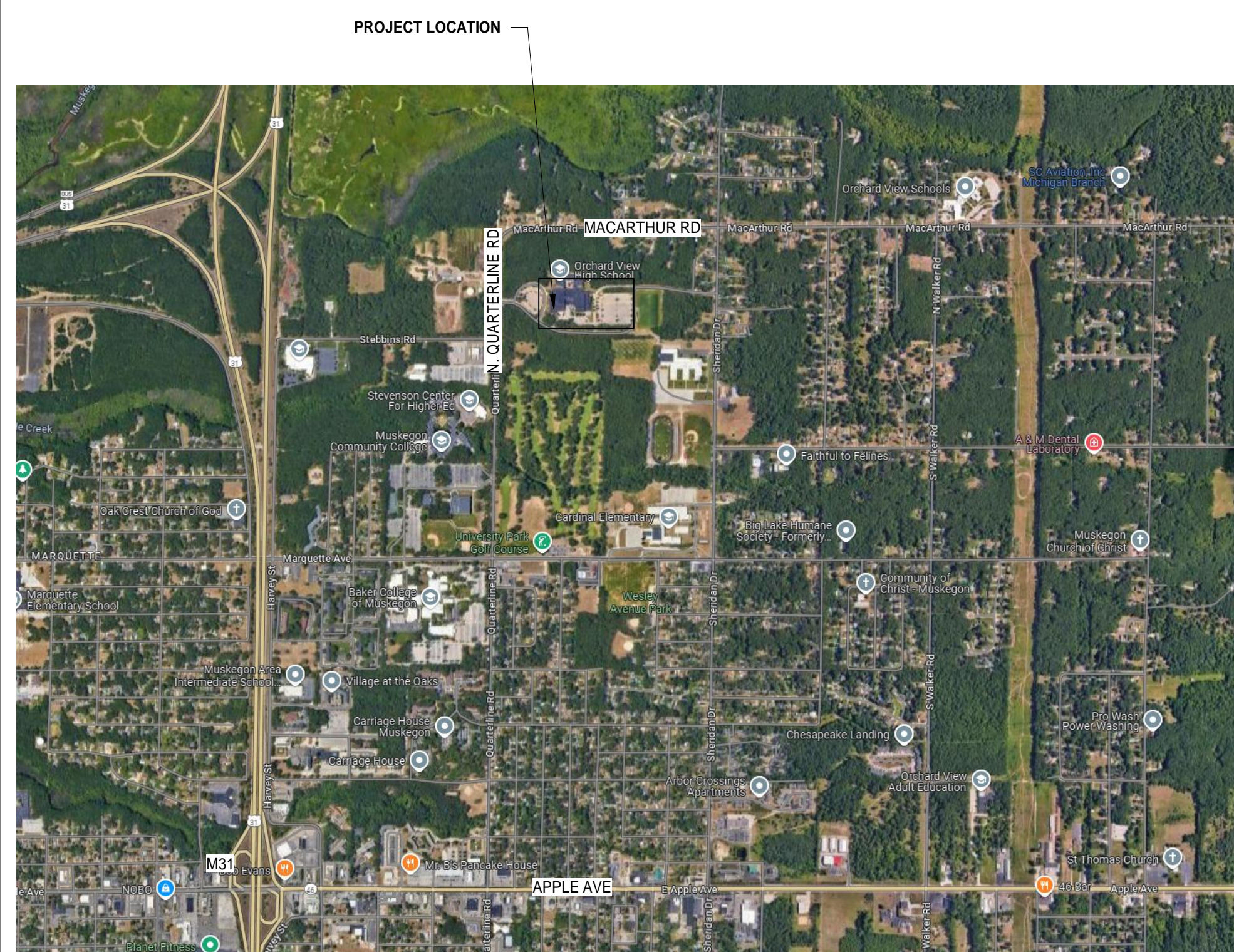
ELECTRICAL ENGINEER:
 - COLLIERS ENGINEERING & DESIGN
 - 560 5TH ST, STW 305
 GRAND RAPIDS, MI
 - CONTACT: ANGELA ROBINSON

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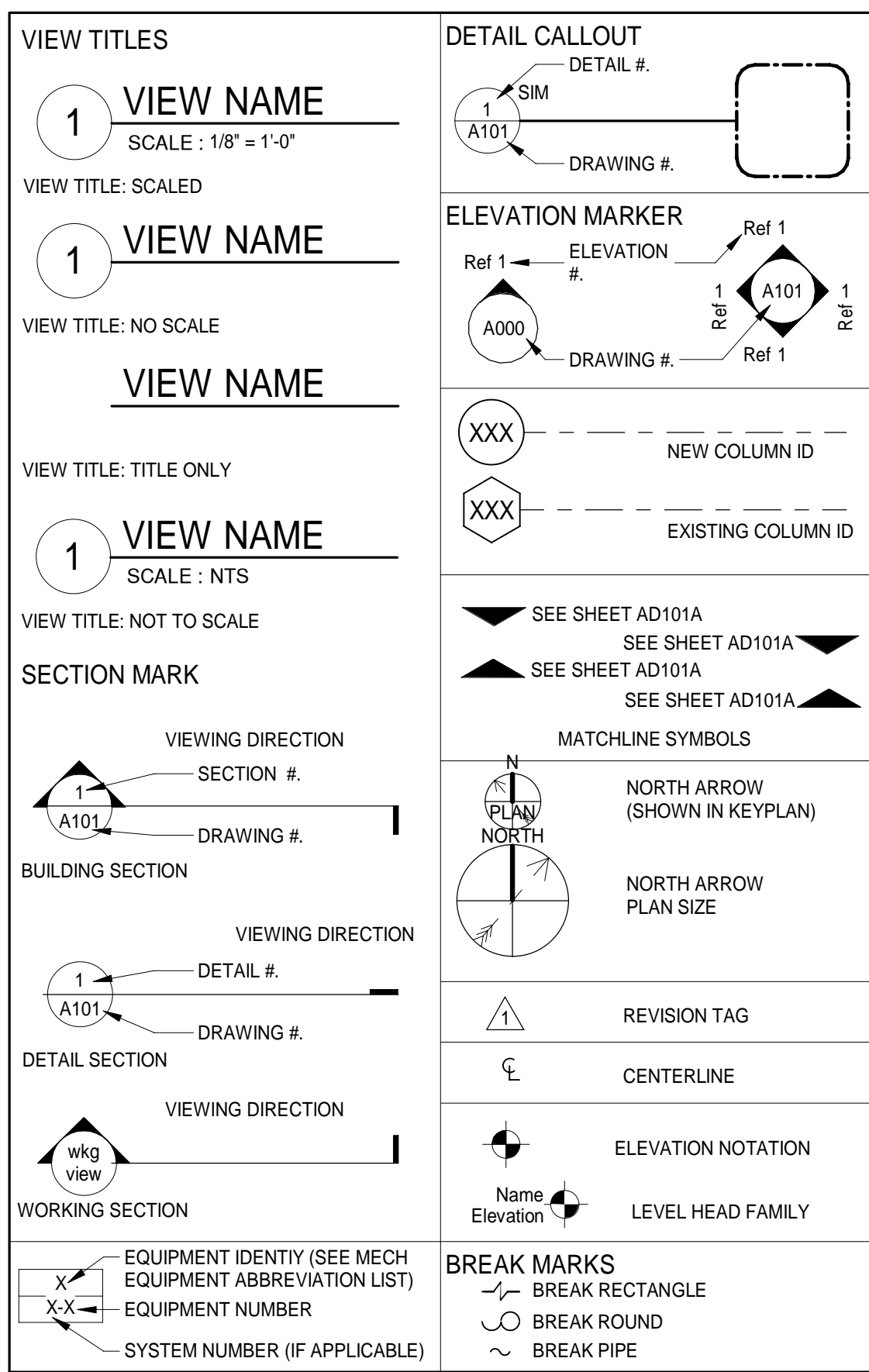
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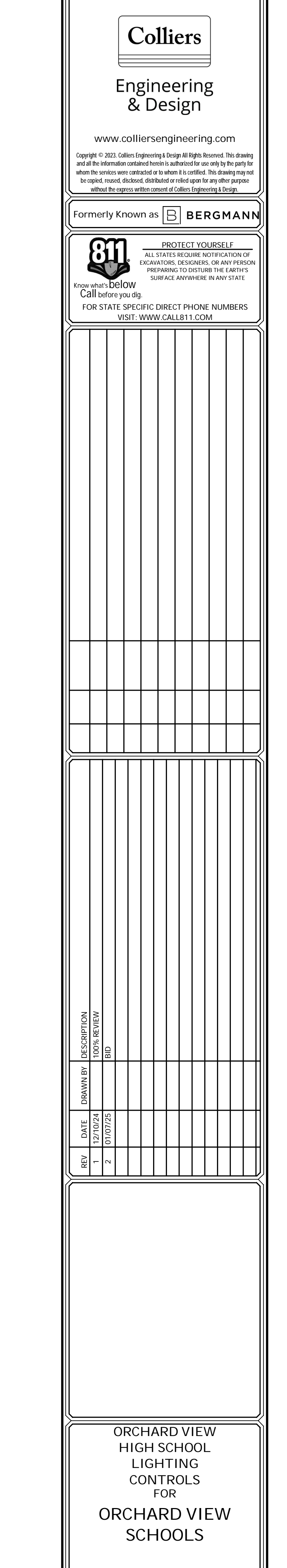
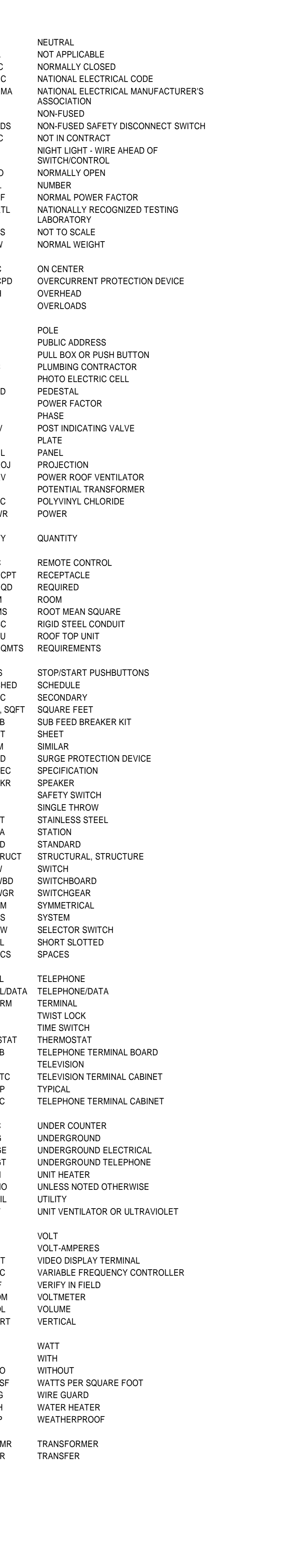
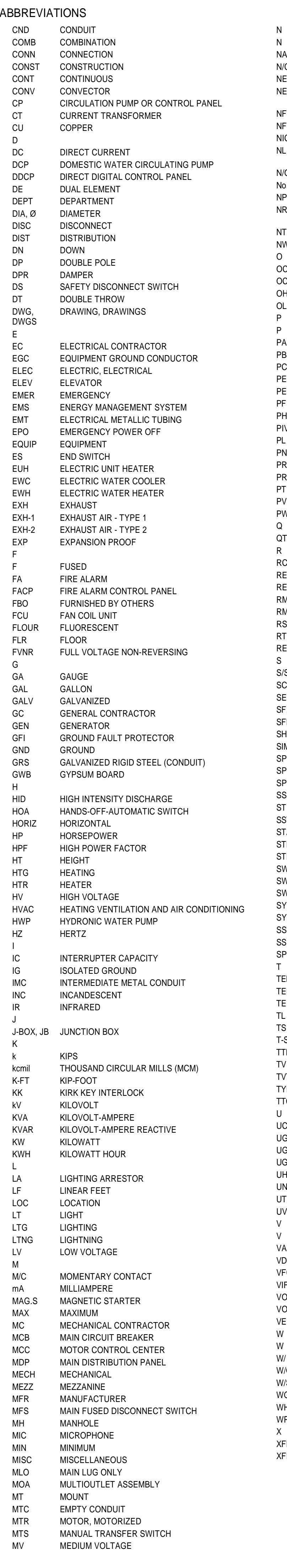
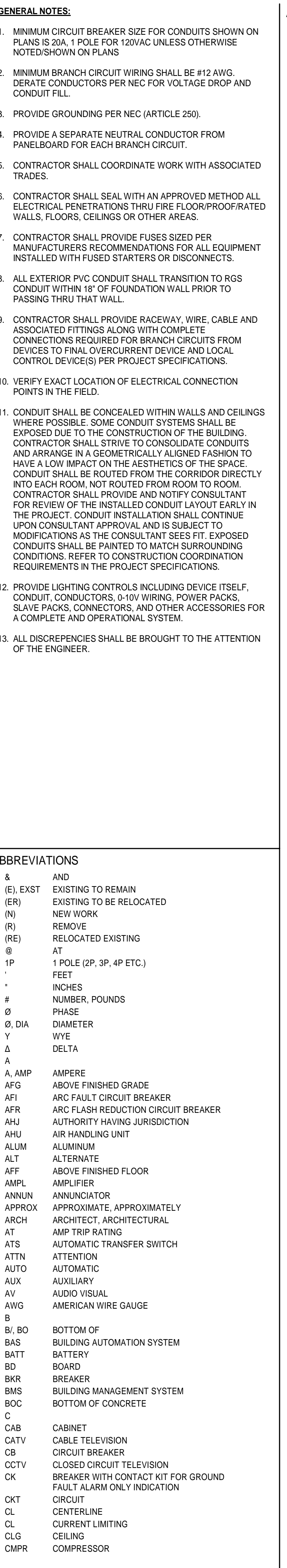
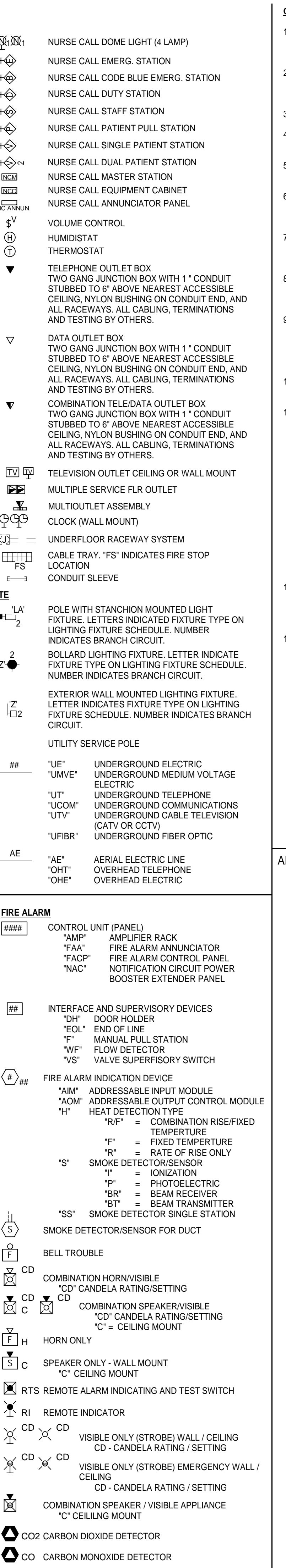
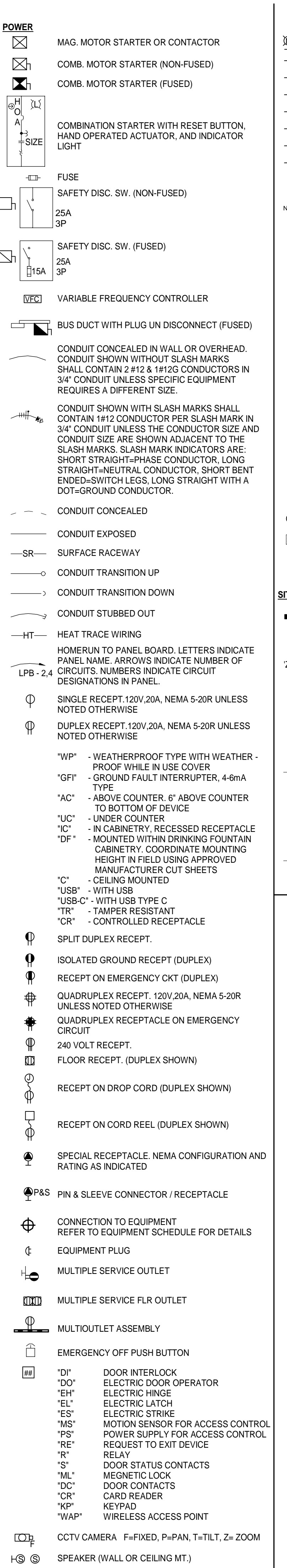
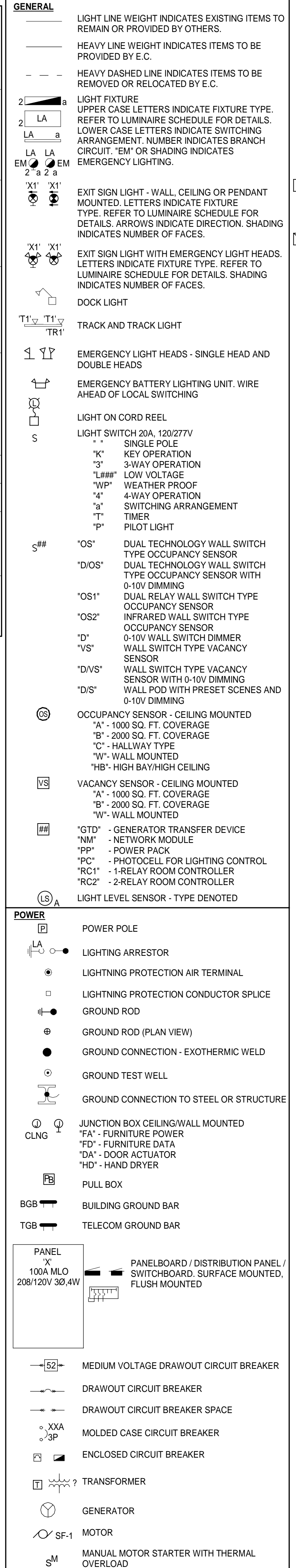


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DRAWING SYMBOLS



ELECTRICAL SYMBOL LIST



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

STANDARDS
MATERIALS AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF NEC, 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.

CODES AND ORDINANCES
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.

IDENTIFICATION OF SYSTEMS
OPERATING INSTRUCTIONS, PRINT OR ENGRAVE INSTRUCTIONS AND LABELS 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-INCHES.

AS-BUILTS - OPERATION & MAINTENANCE MANUALS
FACTORY PRINTED, MULTI-COLOR, PRESSURE SENSITIVE, ADHESIVE LABEL. COMPLY WITH N.E.C. 70 AND 29 CFR 1910.146. LABELS FOR MULTIPLE POWER SOURCES SHALL READ "WARNING - 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". 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.

YEARLY
PROVIDE GUARANTEE FOR ALL LABOR AND MATERIALS FOR ONE (1) QUARTER OVER 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. CONFEE AND COOPERATE WITH OTHER TRADES ON THE JOB SO ALL PARTS WILL BE INSTALLED IN PROPER RELATIONSHIP. PRECISE LOCATION OF PARTS TO COORDINATE WITH OTHER WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

WIRING 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 1910.146. LABELS FOR MULTIPLE POWER SOURCES SHALL READ "WARNING - 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". 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.

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DEMOLITION
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 REMOVED WHENEVER POSSIBLE. CONTRACTOR SHALL PATCH EXISTING WALL AND CEILING OPENINGS IN FINISHED AREAS UPON REUSE 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

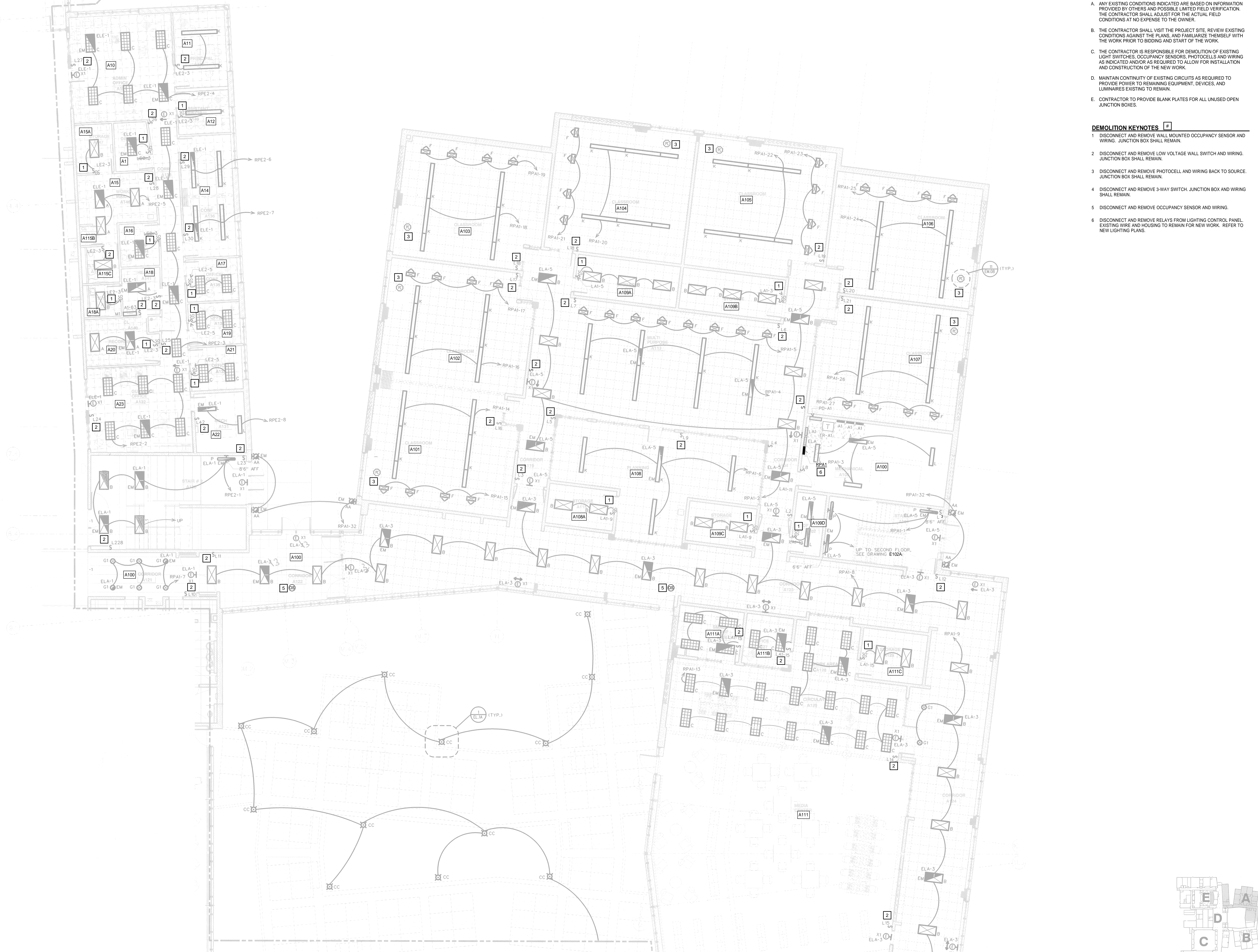
- GENERAL NOTES:**
- ANY EXISTING CONDITIONS INDICATED ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR THE ACTUAL FIELD CONDITIONS AT NO EXPENSE TO THE OWNER.
 - THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE PLANS, AND FAMILIARIZE THEMSELVES WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK.
 - 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.
 - MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES EXISTING TO REMAIN.
 - CONTRACTOR TO PROVIDE BLANK PLATES FOR ALL UNUSED OPEN JUNCTION BOXES.

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Formerly Known as **BERGMANN**

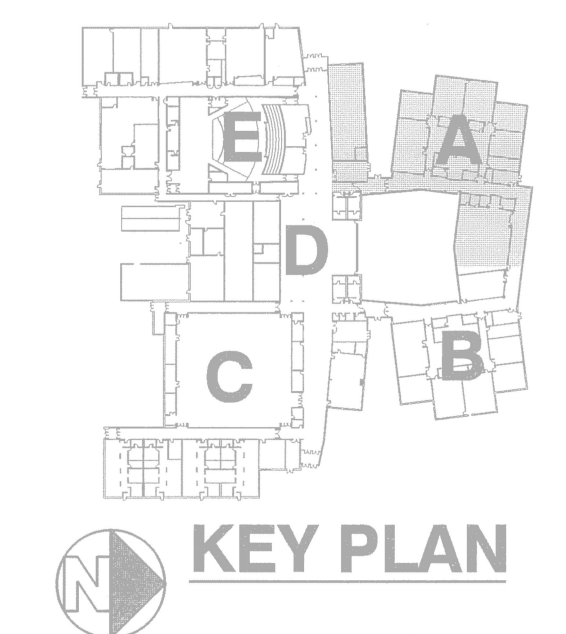
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- DEMOLITION KEYNOTES**
- DISCONNECT AND REMOVE WALL MOUNTED OCCUPANCY SENSOR AND WIRING. JUNCTION BOX SHALL REMAIN.
 - DISCONNECT AND REMOVE LOW VOLTAGE WALL SWITCH AND WIRING. JUNCTION BOX SHALL REMAIN.
 - DISCONNECT AND REMOVE PHOTOCELL AND WIRING BACK TO SOURCE. JUNCTION BOX SHALL REMAIN.
 - DISCONNECT AND REMOVE 3-WAY SWITCH. JUNCTION BOX AND WIRING SHALL REMAIN.
 - DISCONNECT AND REMOVE OCCUPANCY SENSOR AND WIRING.
 - DISCONNECT AND REMOVE RELAYS FROM LIGHTING CONTROL PANEL. EXISTING WIRE AND HOUSING TO REMAIN FOR NEW WORK. REFER TO NEW LIGHTING PLANS.



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

MATCHLINE SEE SHEET ED101B



REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	BRD

ORCHARD VIEW
 HIGH SCHOOL
 LIGHTING
 CONTROLS
 FOR
 ORCHARD VIEW
 SCHOOLS

16 N. QUARTERLINE
 MUSKEGON, MI
 49442

Colliers Engineering & Design
 LANSING
 7050 West Saginaw Hwy
 Suite 200
 Lansing, MI 48917
 Phone: 517.272.9835

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AS SHOWN	12/10/24	CTN	ARR
PROJECT NUMBER	DRAWING NAME	REVIEWED BY	
24010375A		ARR	

SHEET TITLE
FIRST FLOOR - DEMOLITION LIGHTING - ZONE A

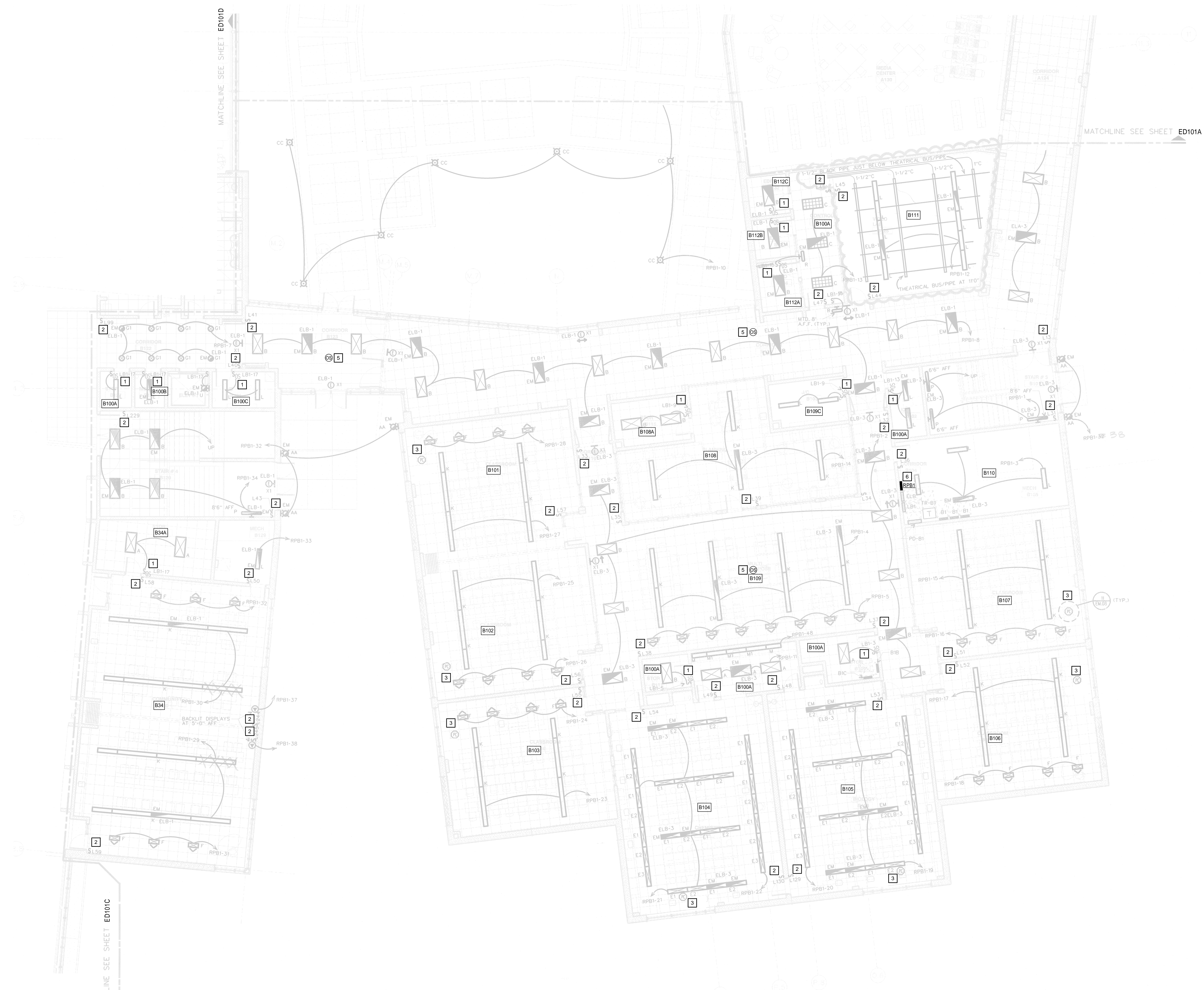
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GENERAL NOTES:

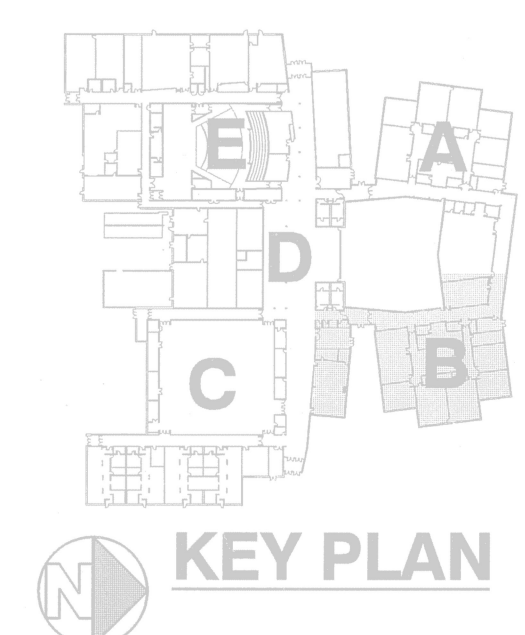
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1 FIRST FLOOR - DEMOLITION LIGHTING - ZONE B
 SCALE: 1/8" = 1'-0"



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2	01/07/25	BRD

**ORCHARD VIEW
 HIGH SCHOOL
 LIGHTING
 CONTROLS
 FOR
 ORCHARD VIEW
 SCHOOLS**

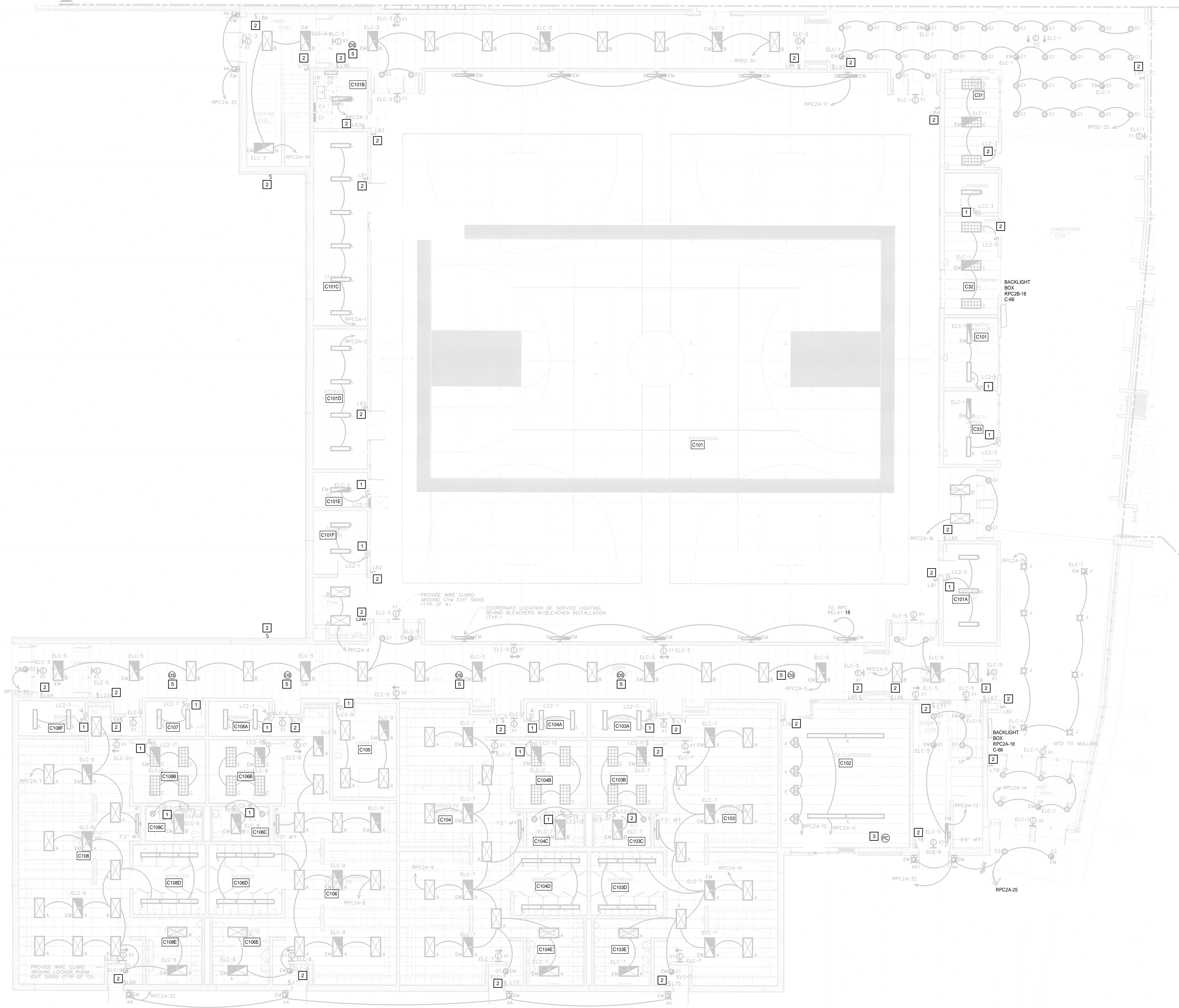
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 LIGHTING - ZONE B

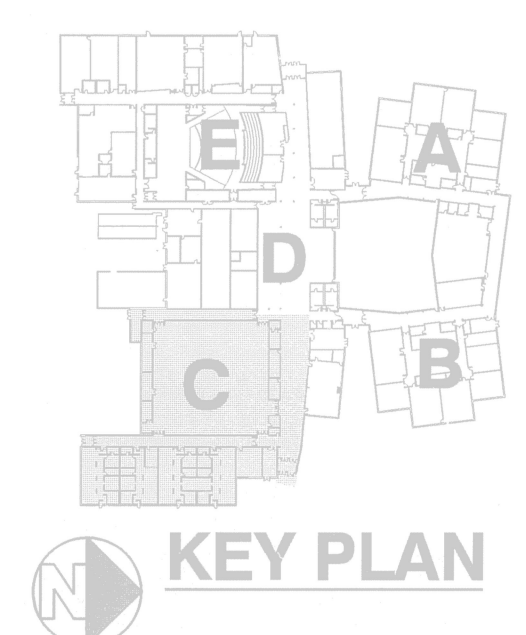
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1 FIRST FLOOR - DEMOLITION LIGHTING - ZONE C
SCALE: 1/8" = 1'-0"



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

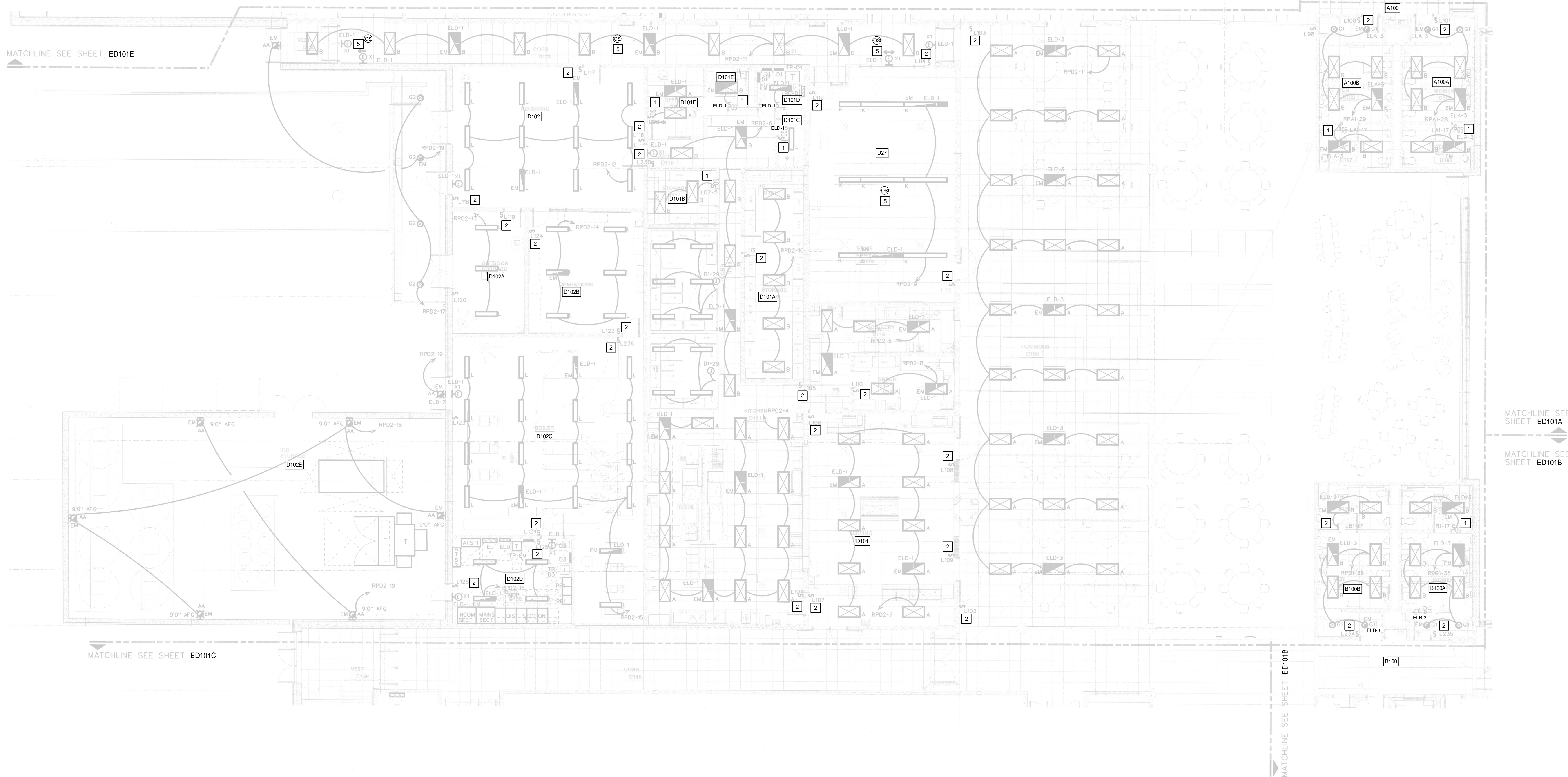
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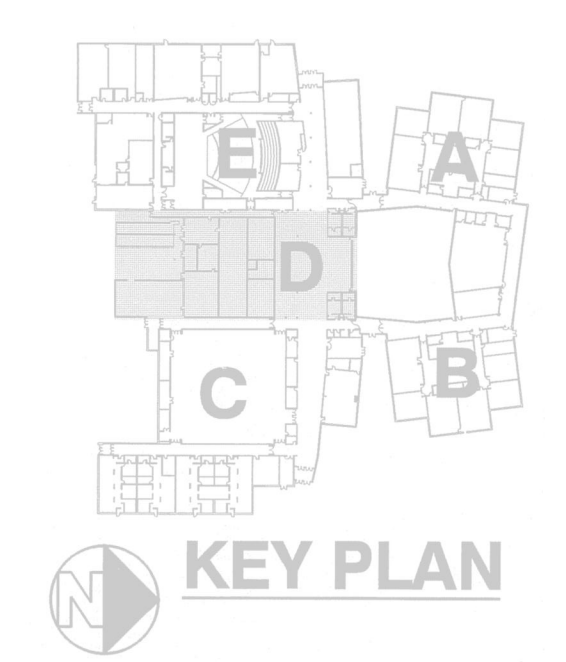
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SHEET NUMBER:
ED101C

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



ORCHARD VIEW
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LIGHTING
CONTROLS
FOR
ORCHARD VIEW
SCHOOLS

16 N. QUARTERLINE
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SHEET TITLE:
**FIRST FLOOR - DEMOLITION
LIGHTING - ZONE D**

SHEET NUMBER:
ED101D

DEMOLITION KEYNOTES #

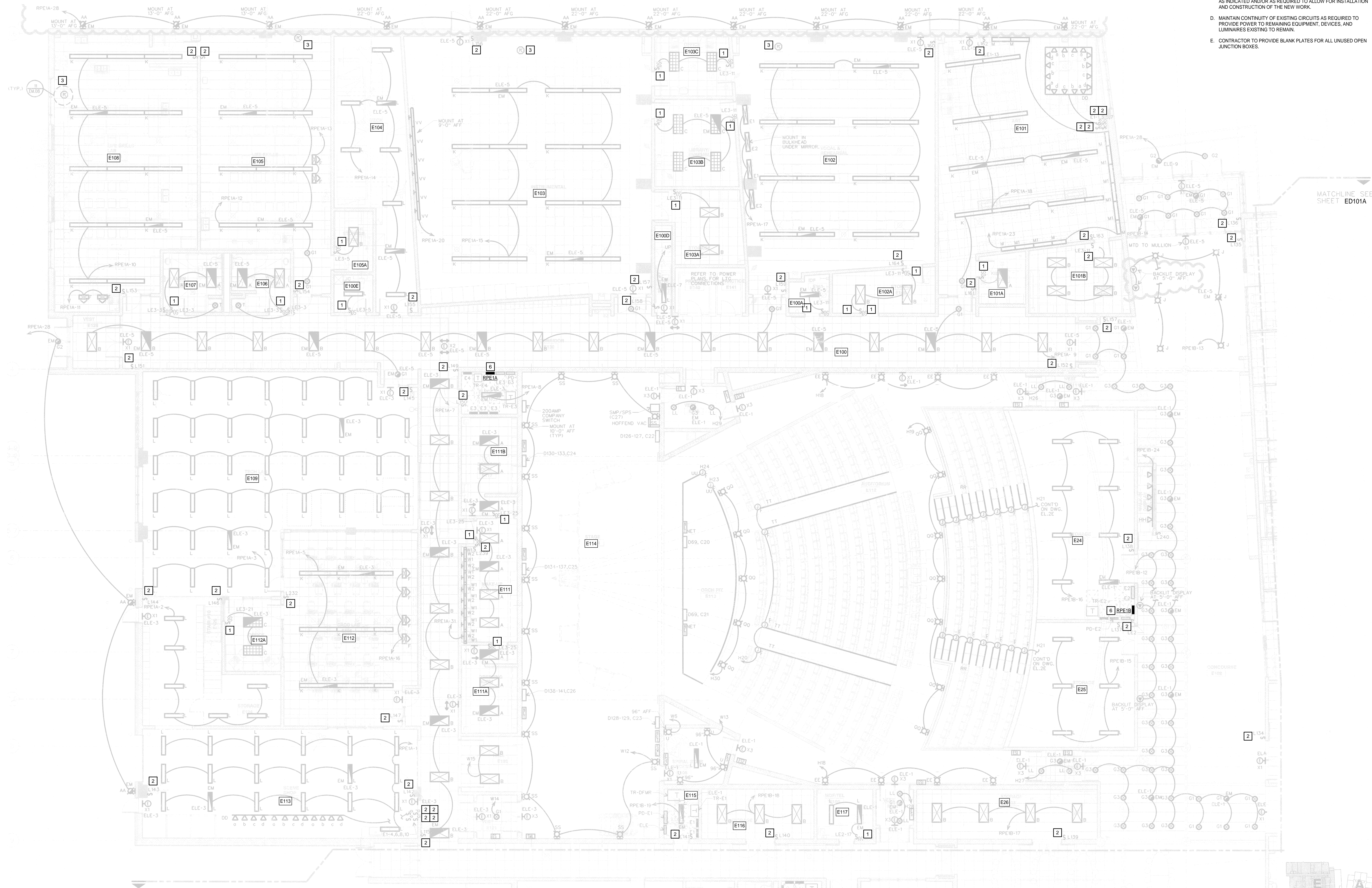
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DEMOLITION KEYNOTES #

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MATCHLINE SEE SHEET ED101D

MATCHLINE SEE SHEET ED101A

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



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ORCHARD VIEW
HIGH SCHOOL
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ORCHARD VIEW
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SHEET TITLE
FIRST FLOOR - DEMOLITION
LIGHTING - ZONE E

SHEET NUMBER
ED101E

GENERAL NOTES:

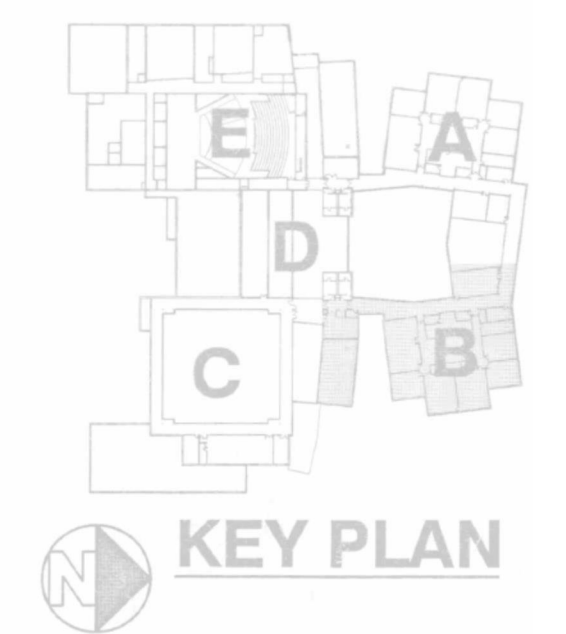
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- C. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING LIGHT SWITCHES, OCCUPANCY SENSORS, PHOTOCELLS AND WIRING AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK.
- D. MAINTAIN CONTINUITY OF EXISTING 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.

DEMOLITION KEYNOTES

- 1 DISCONNECT AND REMOVE WALL MOUNTED OCCUPANCY SENSOR AND WIRING. JUNCTION BOX SHALL REMAIN.
- 2 DISCONNECT AND REMOVE LOW VOLTAGE WALL SWITCH AND WIRING. JUNCTION BOX SHALL REMAIN.
- 3 DISCONNECT AND REMOVE PHOTOCELL AND WIRING BACK TO SOURCE. JUNCTION BOX SHALL REMAIN.
- 4 DISCONNECT AND REMOVE 3-WAY SWITCH. JUNCTION BOX AND WIRING SHALL REMAIN.
- 5 DISCONNECT AND REMOVE OCCUPANCY SENSOR AND WIRING.
- 6 DISCONNECT AND REMOVE RELAYS FROM LIGHTING CONTROL PANEL. EXISTING WIRE AND HOUSING TO REMAIN FOR NEW WORK. REFER TO NEW LIGHTING PLANS.



1 SECOND FLOOR - DEMOLITION - LIGHTING - ZONE B
SCALE: 1/8" = 1'-0"



**ORCHARD VIEW
HIGH SCHOOL
LIGHTING
CONTROLS
FOR
ORCHARD VIEW
SCHOOLS**

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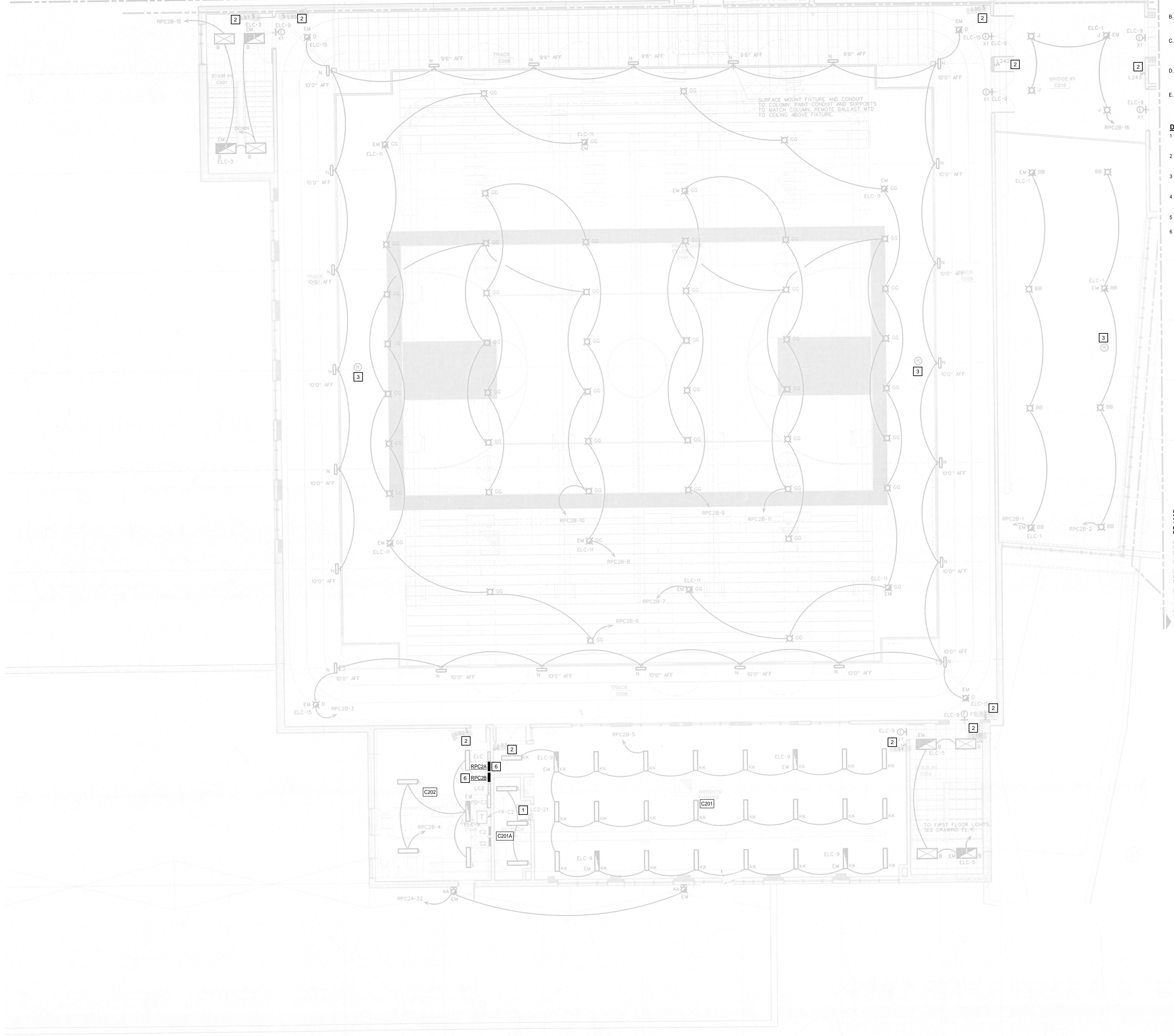
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**SHEET TITLE: SECOND FLOOR -
DEMOLITION LIGHTING -
ZONE B**

SHEET NUMBER
ED102B

MATCHLINE SEE SHEET ED102D



- GENERAL NOTES:**
- A. ANY EXISTING CONDITIONS INDICATED ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR THE ACTUAL FIELD CONDITIONS AT NO EXPENSE TO THE OWNER.
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- DEMOLITION KEYNOTES:**
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 6. DISCONNECT AND REMOVE RELAYS FROM LIGHTING CONTROL PANEL. EXISTING WIRE AND HOUSING TO REMAIN FOR NEW WORK. REFER TO NEW LIGHTING PLANS.

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PROJECT NUMBER	DRAWING NAME	REVIEWED BY	
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SHEET TITLE: SECOND FLOOR - DEMOLITION LIGHTING - ZONE C

SHEET NUMBER: ED102C

1 SECOND FLOOR - DEMOLITION LIGHTING - ZONE C
SCALE: 1/8" = 1'-0"



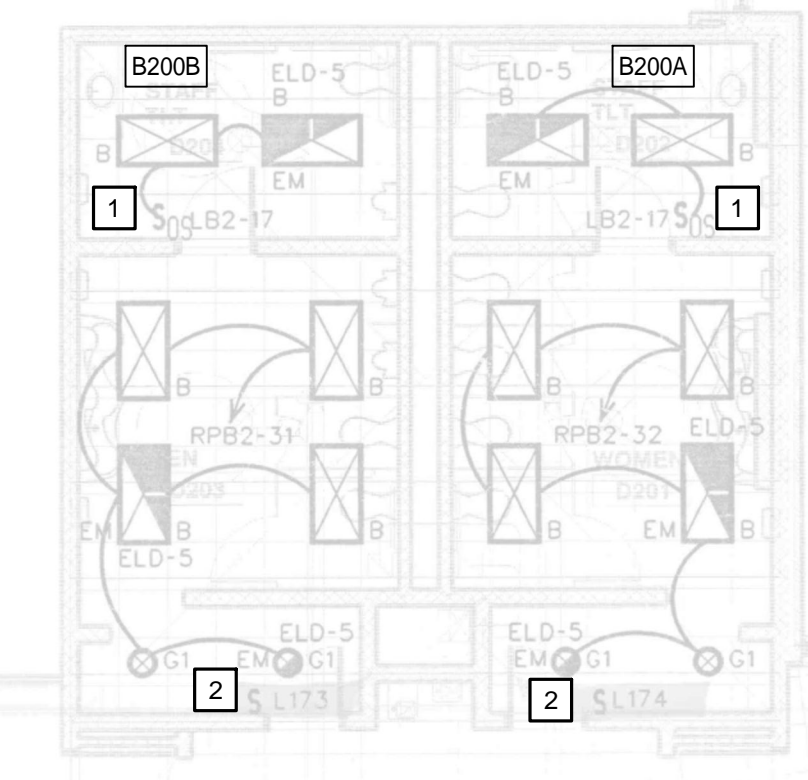
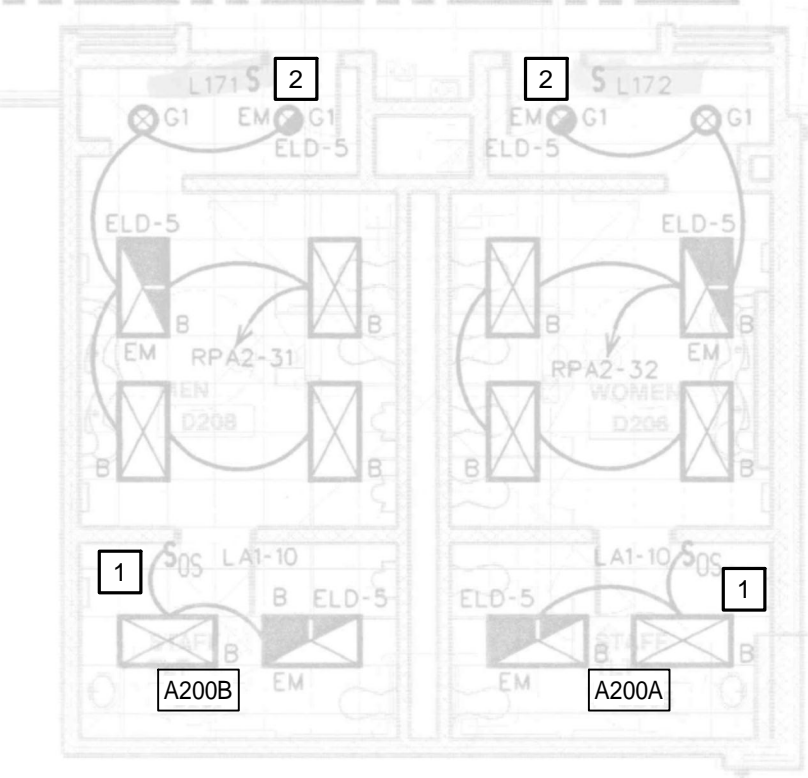
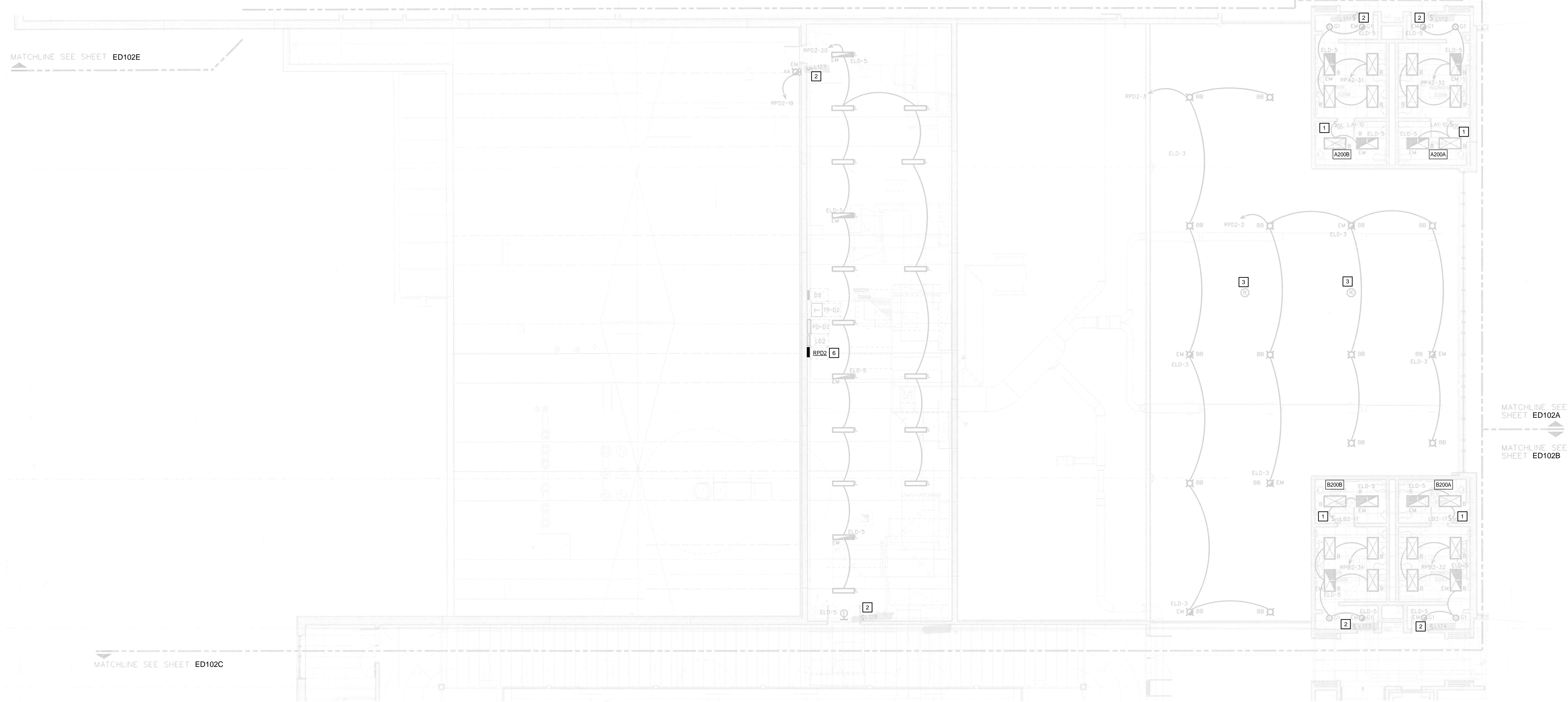
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DEMOLITION KEYNOTES

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- 4 DISCONNECT AND REMOVE 3-WAY SWITCH. JUNCTION BOX AND WIRING SHALL REMAIN.
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- 6 DISCONNECT AND REMOVE RELAYS FROM LIGHTING CONTROL PANEL. EXISTING WIRE AND HOUSING TO REMAIN FOR NEW WORK. REFER TO NEW LIGHTING PLANS.

GENERAL NOTES:

- A. ANY EXISTING CONDITIONS INDICATED ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR THE ACTUAL FIELD CONDITIONS AT NO EXPENSE TO THE OWNER.
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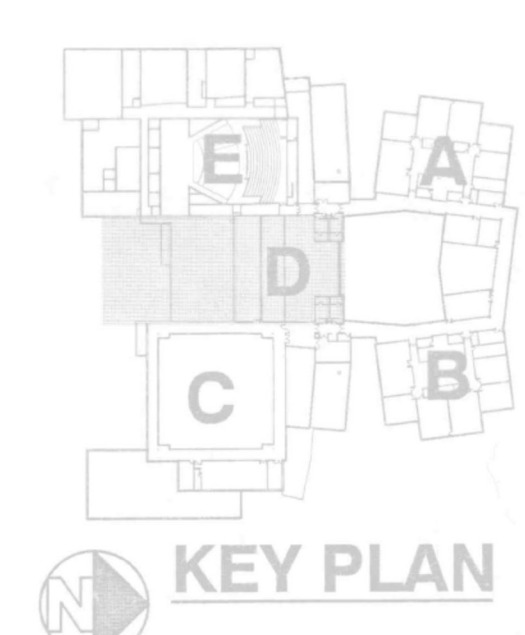


MATCHLINE SEE SHEET ED102A
MATCHLINE SEE SHEET ED102B

MATCHLINE SEE SHEET ED102E

MATCHLINE SEE SHEET ED102C

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



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**SHEET TITLE: SECOND FLOOR -
DEMOLITION LIGHTING -
ZONE D**

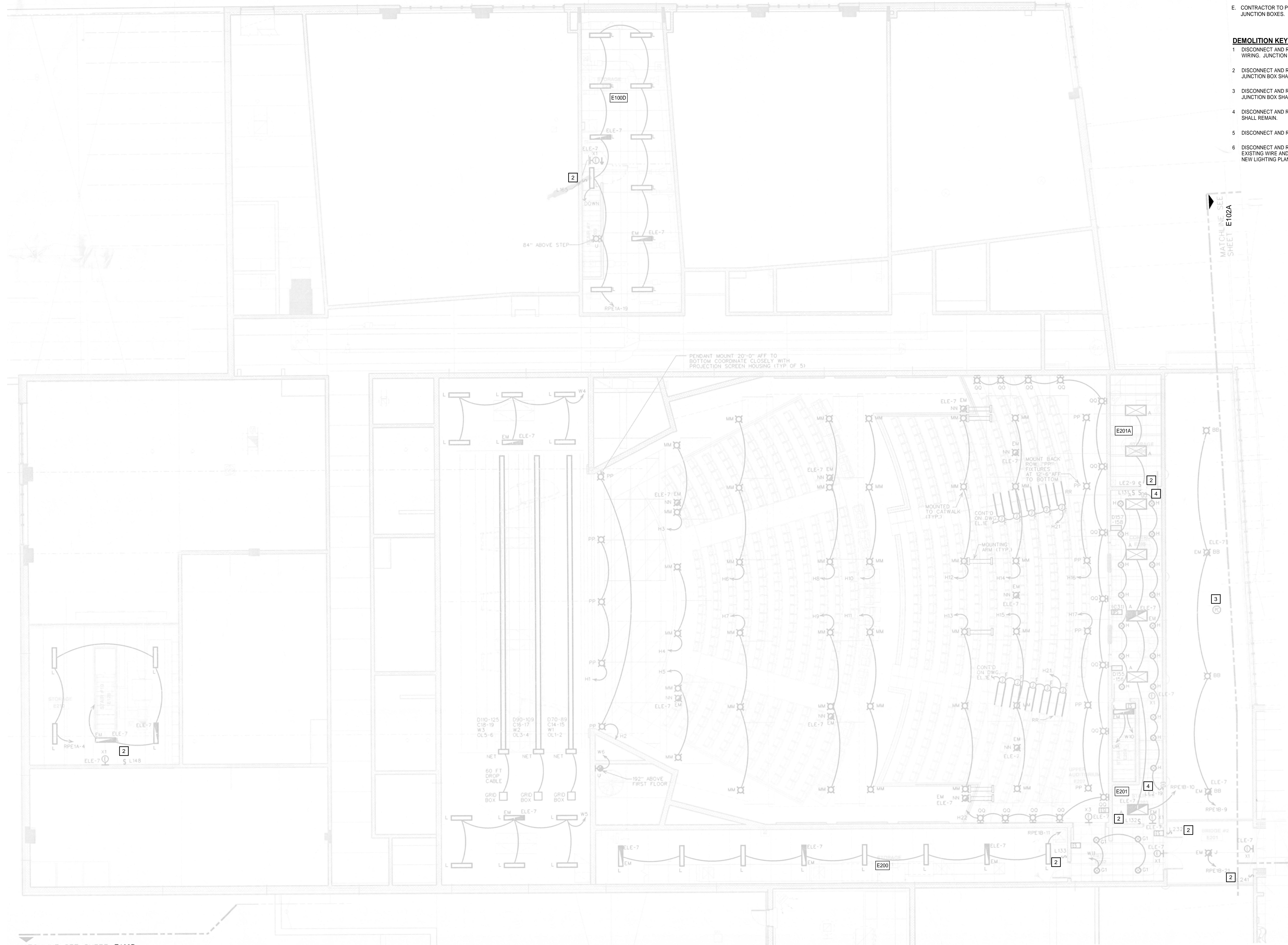
SHEET NUMBER
ED102D

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DEMOLITION KEYNOTES [2]

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1	12/10/24	100% REVIEW
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 LIGHTING
 CONTROLS
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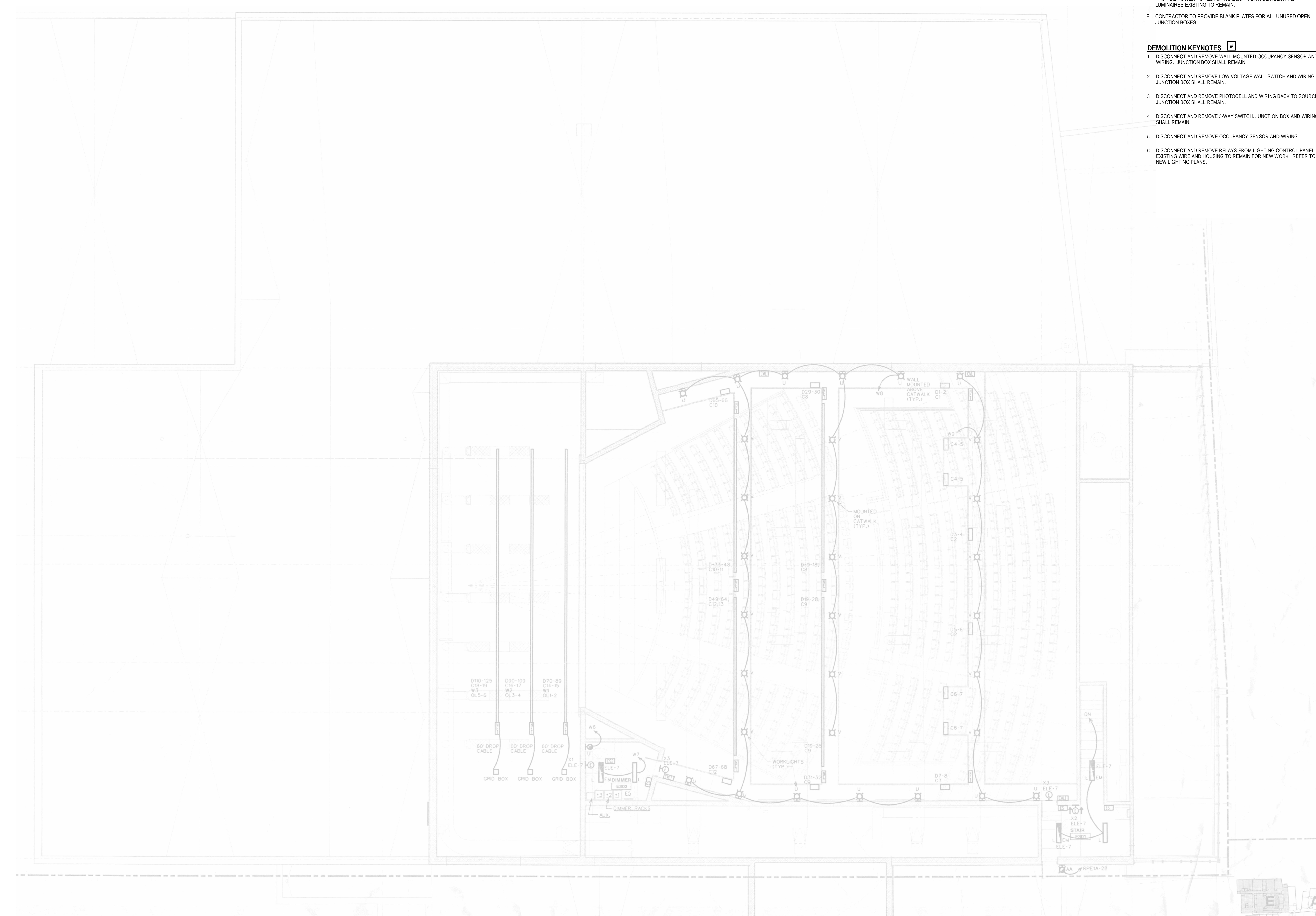
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**SHEET TITLE - SECOND FLOOR -
 DEMOLITION LIGHTING -
 ZONE E**

SHEET NUMBER
ED102E

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



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REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
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SHEET TITLE:
**THIRD FLOOR - DEMOLITION
LIGHTING - ZONE E**

SHEET NUMBER:
ED103E

1 THIRD FLOOR - DEMOLITION LIGHTING - ZONE E
SCALE: 1/8" = 1'-0"



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MATCHLINE SEE SHEET E101E



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

MATCHLINE SEE SHEET E101B

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

NO.	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	REV

REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	REV

REV	DATE	DESCRIPTION
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2	01/07/25	REV

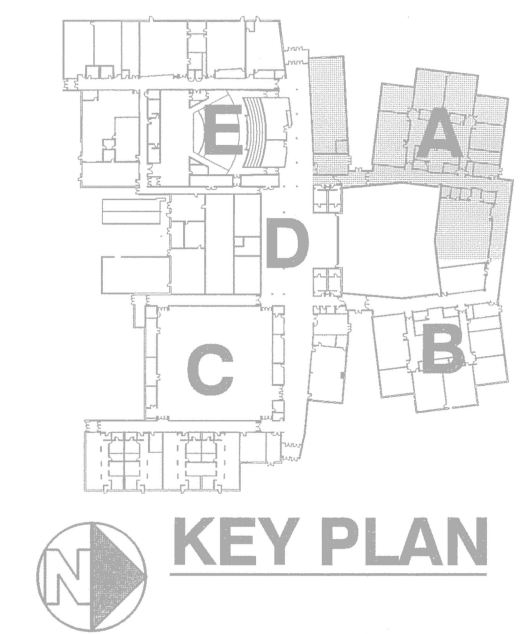
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**FIRST FLOOR LIGHTING
PLAN - ZONE A**

SHEET NUMBER
E101A



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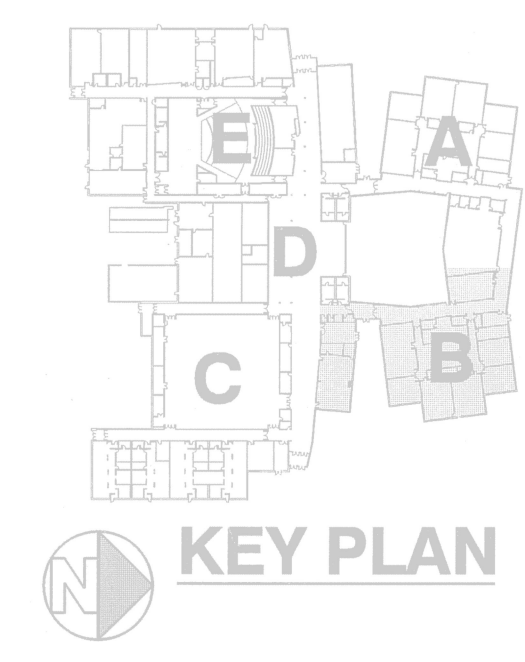
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PROJECT NUMBER	DRAWING NAME	REVIEWED BY	ARR
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SHEET TITLE
**FIRST FLOOR LIGHTING
PLAN - ZONE B**
SHEET NUMBER
E101B

- GENERAL NOTES:**
- ALL LUMINAIRES ARE EXISTING TO REMAIN.
 - EXISTING LIGHTING CONTROL PANEL ENCLOSURES TO REMAIN TO SERVE AS PULL BOXES FOR LIGHTING CIRCUITS.
 - ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE SHOWN FOR CLARITY.
- LIGHTING KEYNOTES**
- ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUIT. LOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.
 - SPLICE EXISTING BRANCH CIRCUITS FROM PANEL THAT FED INDIVIDUAL RELAYS TOGETHER. PROVIDE SPLICE BLOCKS.



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

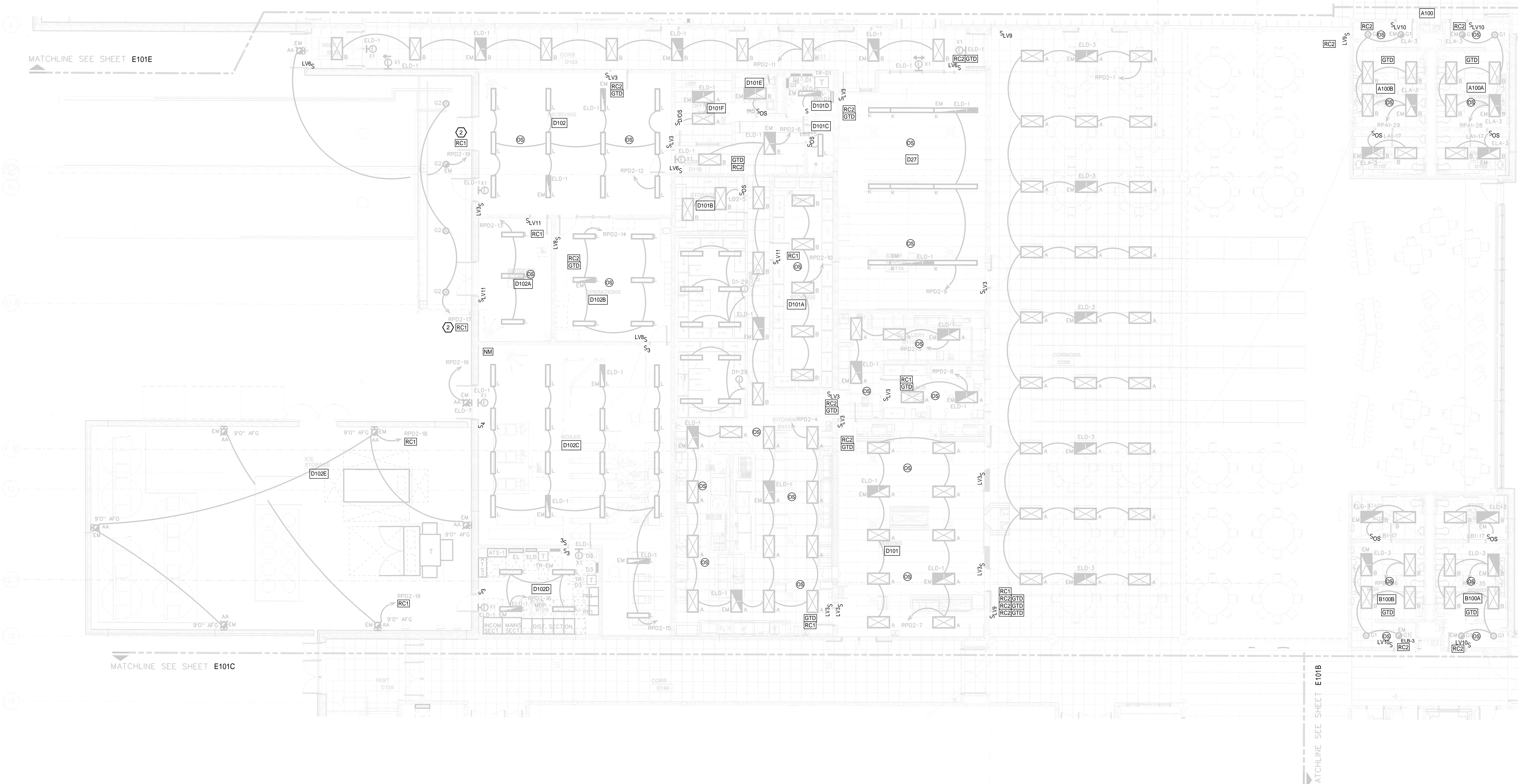


GENERAL NOTES:

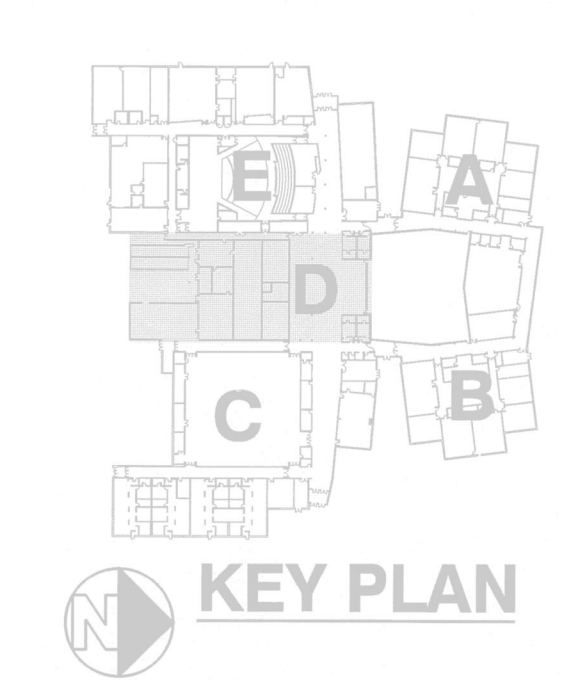
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- C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE SHOWN FOR CLARITY.

LIGHTING KEYNOTES

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



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



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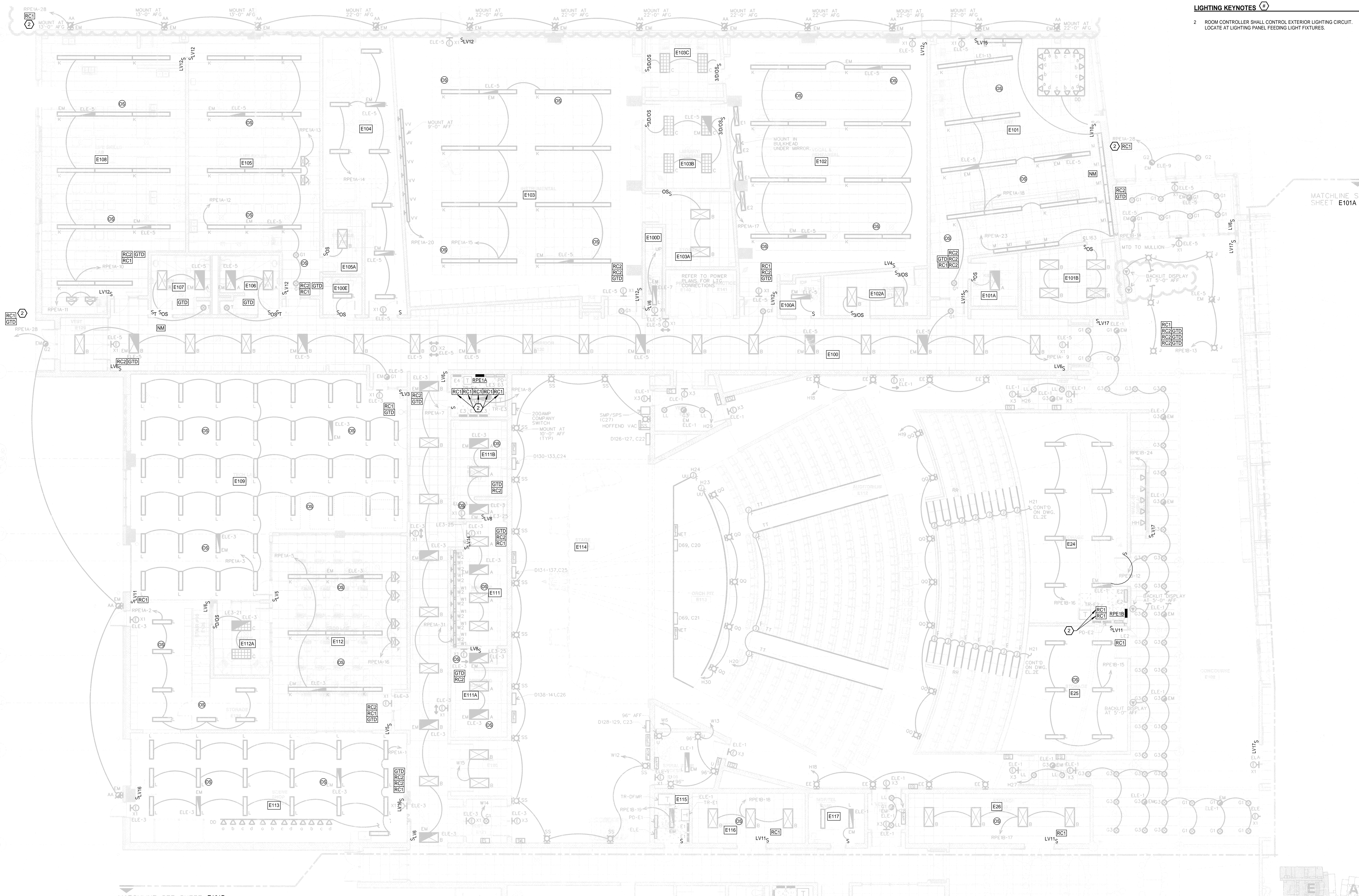
SHEET TITLE:
FIRST FLOOR LIGHTING
PLAN - ZONE D
SHEET NUMBER:
E101D

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

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



NO.	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	100% REVIEW

REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	100% REVIEW

DATE	DESCRIPTION
12/10/24	100% REVIEW
01/07/25	100% REVIEW

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SHEET TITLE
FIRST FLOOR LIGHTING
PLAN - ZONE E

SHEET NUMBER
E101E



GENERAL NOTES:

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LIGHTING KEYNOTES

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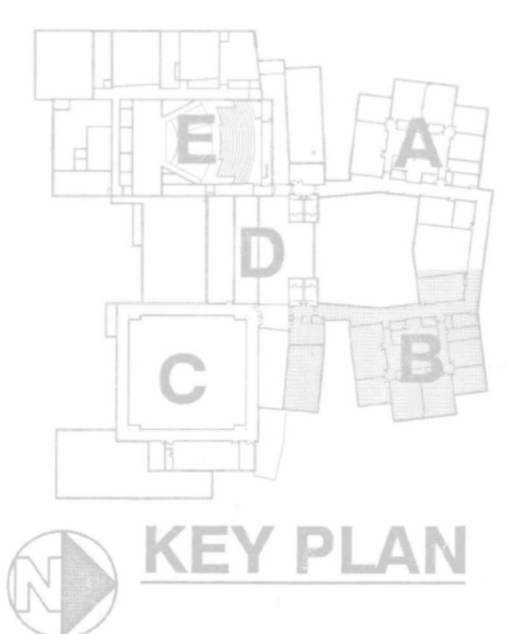
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PROJECT NUMBER:	DRAWING NAME:	REVIEWED BY:	ARR
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SHEET TITLE:
SECOND FLOOR LIGHTING
PLAN - ZONE B

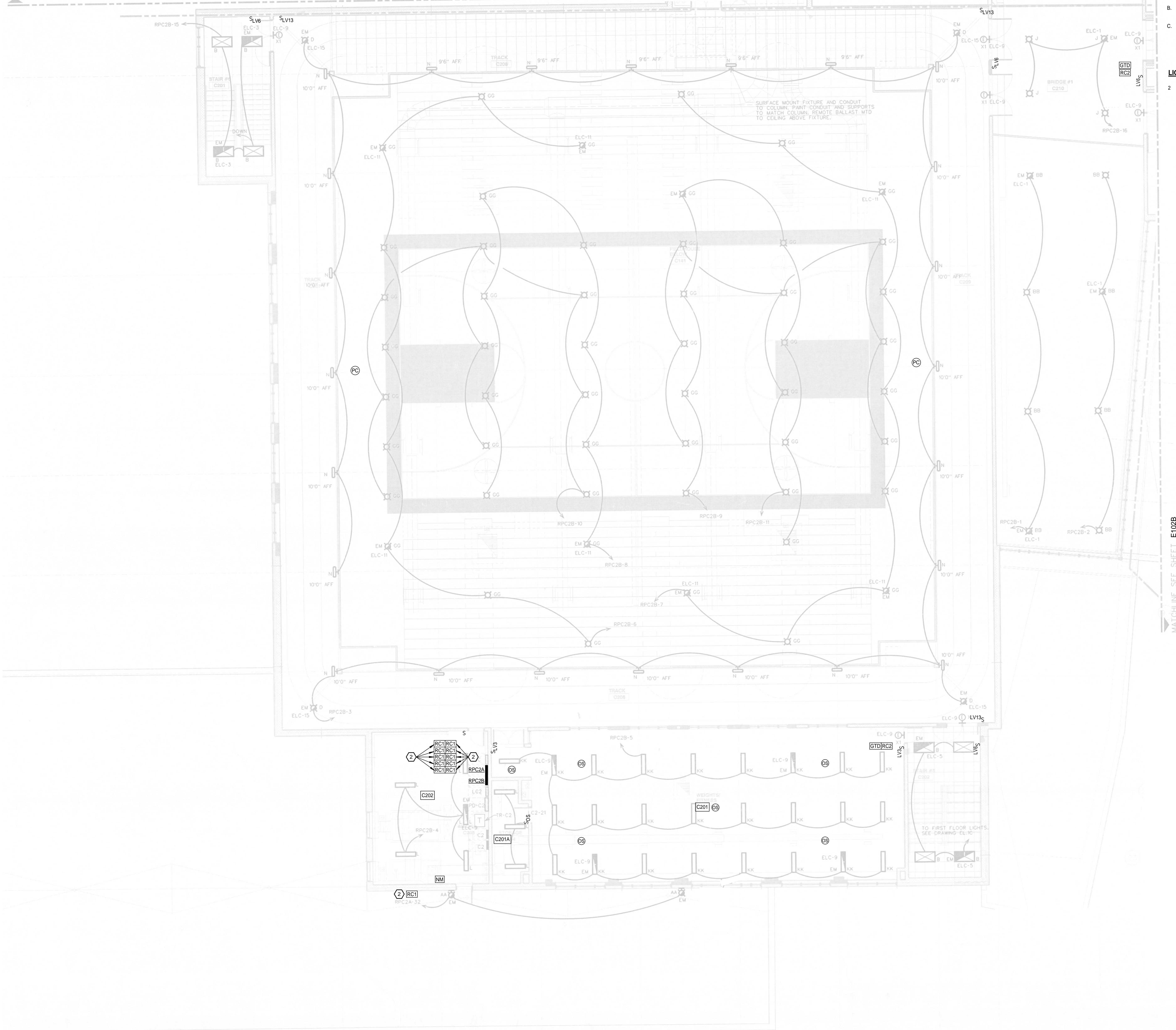
SHEET NUMBER:
E102B

1 SECOND FLOOR LIGHTING PLAN - ZONE B
SCALE: 1/8" = 1'-0"



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MATCHLINE SEE SHEET E102D



GENERAL NOTES:

- A. ALL LUMINAIRES ARE EXISTING TO REMAIN.
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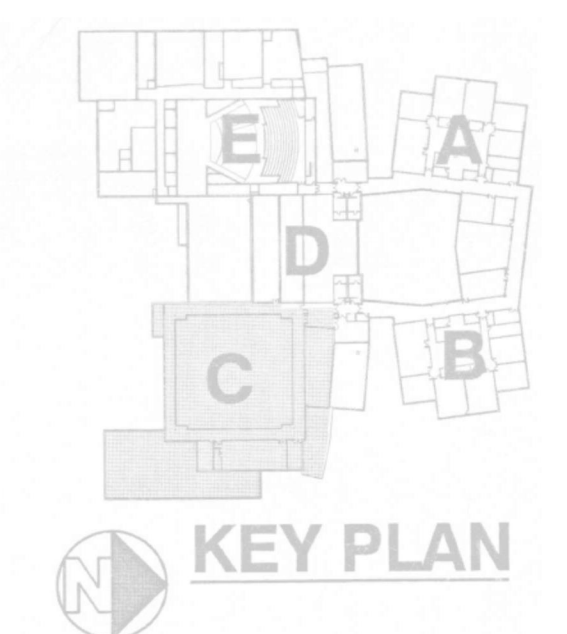
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SHEET TITLE:
SECOND FLOOR LIGHTING
PLAN - ZONE C

SHEET NUMBER:
E102C

1 SECOND FLOOR LIGHTING PLAN - ZONE C
SCALE: 1/8" = 1'-0"



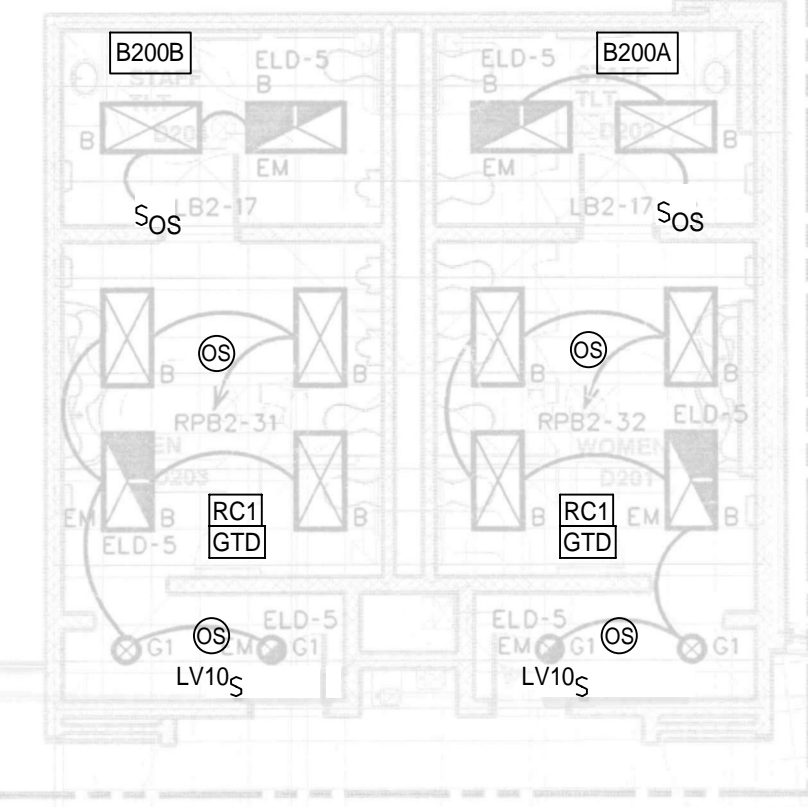
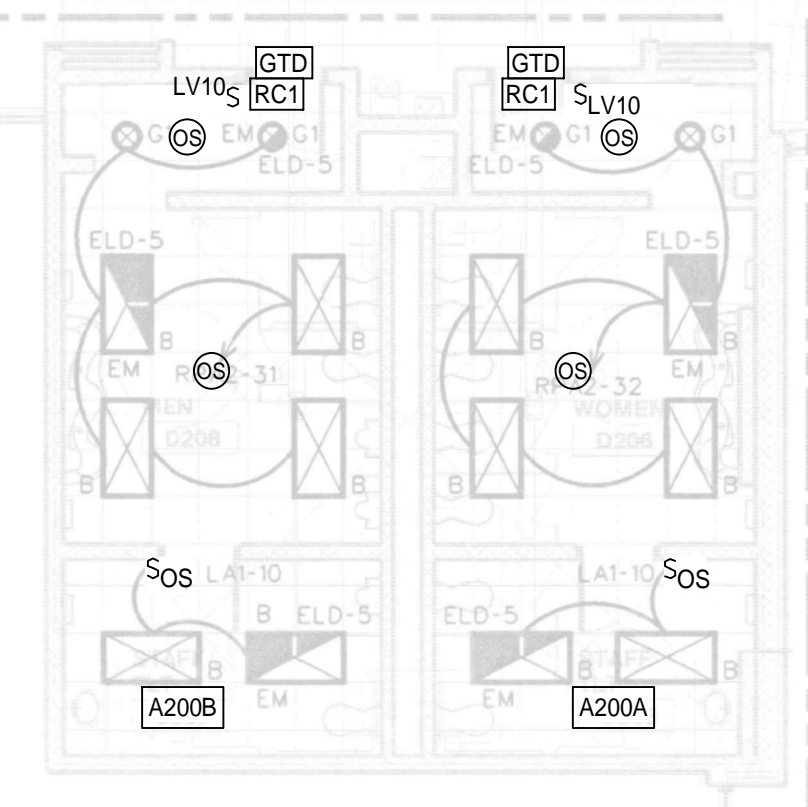
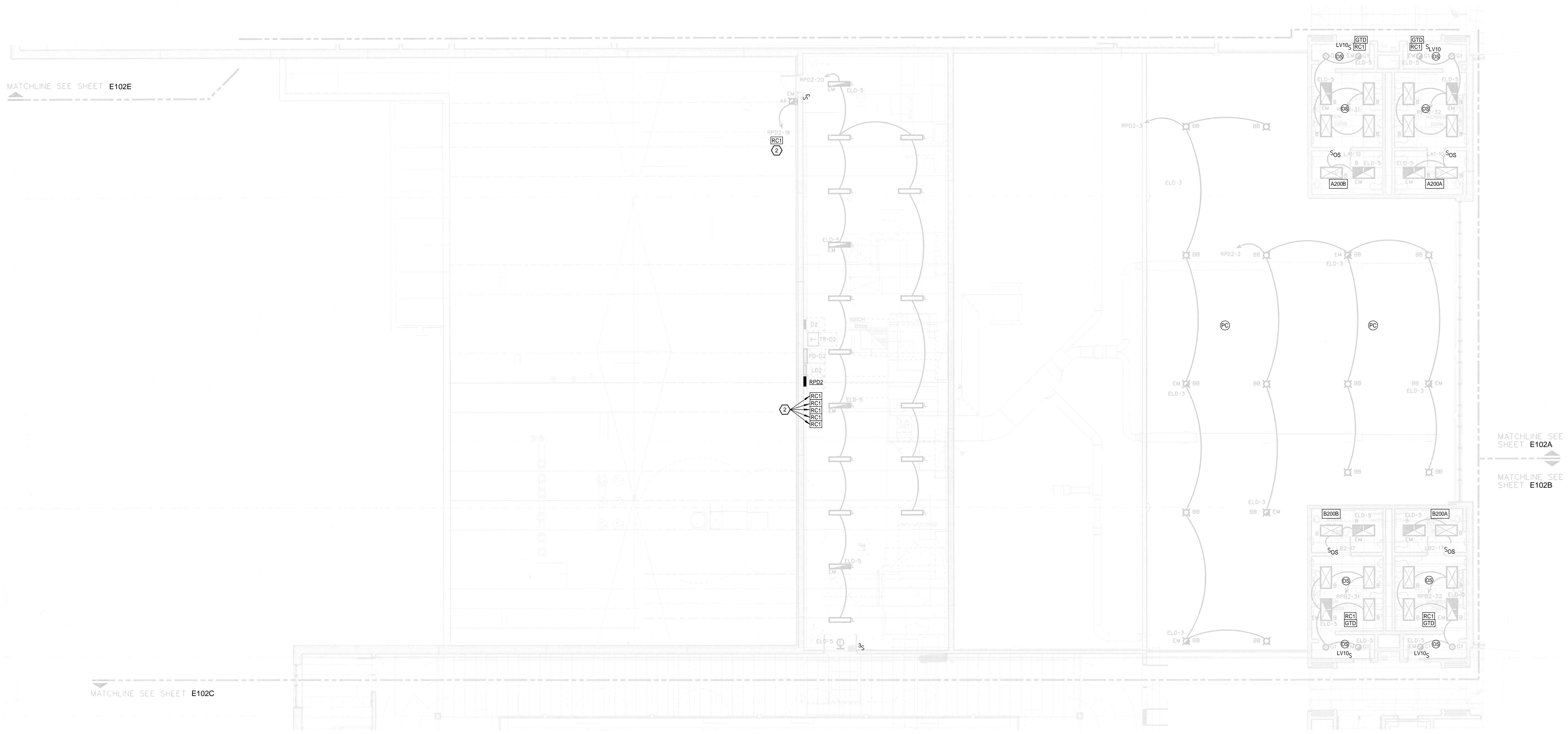
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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.



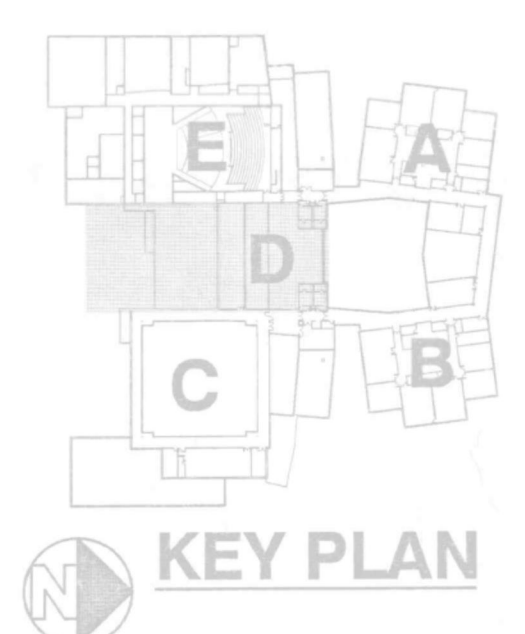
MATCHLINE SEE SHEET E102E

MATCHLINE SEE SHEET E102A

MATCHLINE SEE SHEET E102B

MATCHLINE SEE SHEET E102C

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



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ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS FOR ORCHARD VIEW SCHOOLS

16 N. QUARTERLINE
MUSKEGON, MI
49442

Colliers Engineering & Design
7050 West Saginaw Hwy
Suite 200
Lansing, MI 48917
Phone: 517.272.9835

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SHEET TITLE:
SECOND FLOOR LIGHTING PLAN - ZONE D
SHEET NUMBER:
E102D

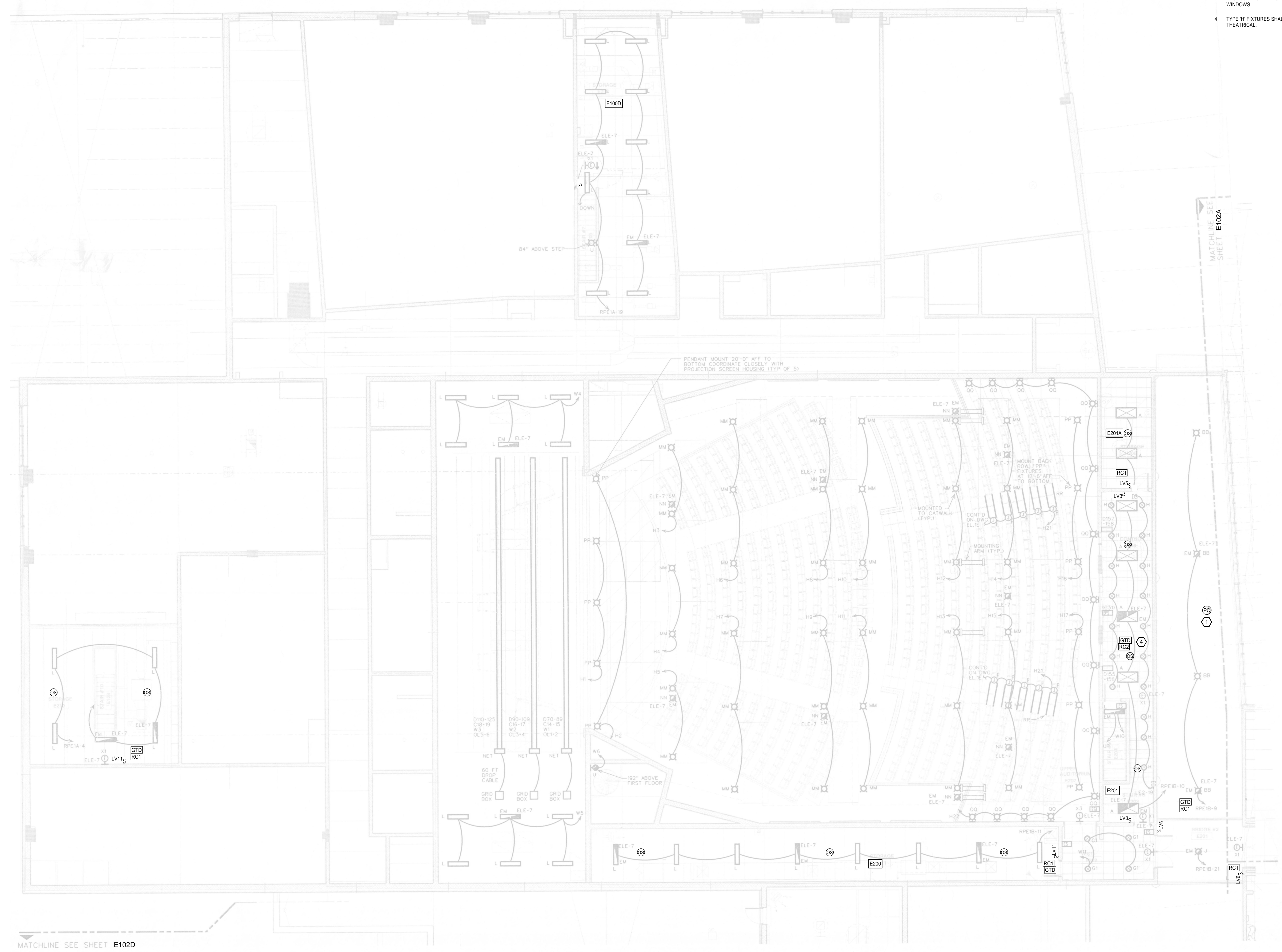
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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.

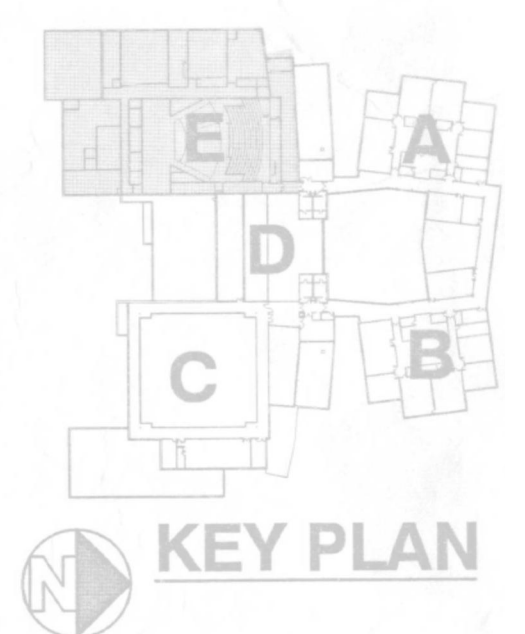
LIGHTING KEYNOTES

- 1 PHOTOCELL SHALL TURN ON AND OFF ROW OF LIGHTS CLOSEST TO WINDOWS.
- 4 TYPE 'Y' FIXTURES SHALL REMAIN CONTROLLED THROUGH THEATRICAL.



MATCHLINE SEE SHEET E102D

1 SECOND FLOOR LIGHTING PLAN - ZONE E
SCALE: 1/8" = 1'-0"



ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS FOR ORCHARD VIEW SCHOOLS

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7050 West Saginaw Hwy
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Lansing, MI 48917
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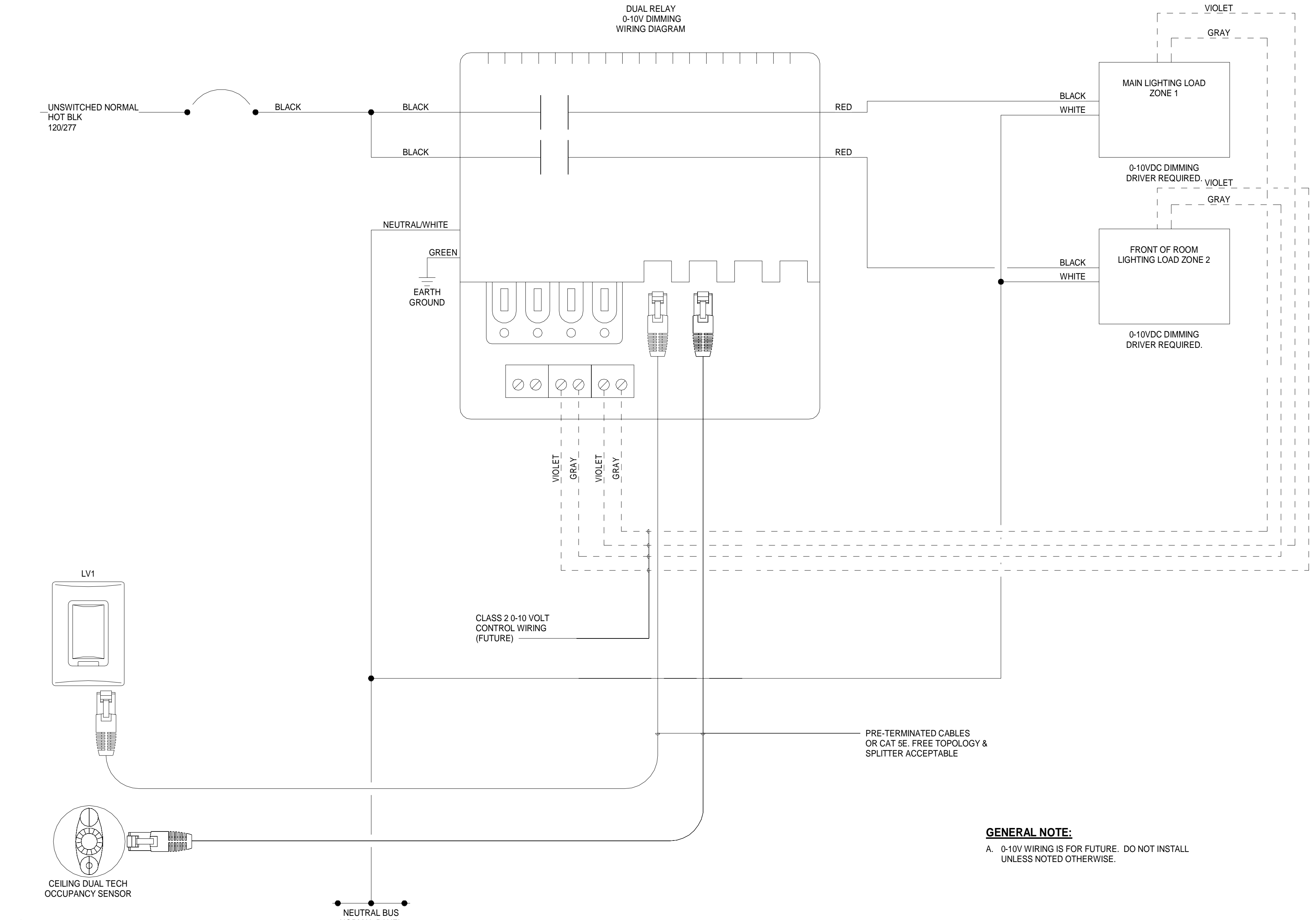
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PROJECT NUMBER:	DRAWING NAME:	REVIEWED BY:	
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SHEET TITLE:
SECOND FLOOR LIGHTING PLAN - ZONE E

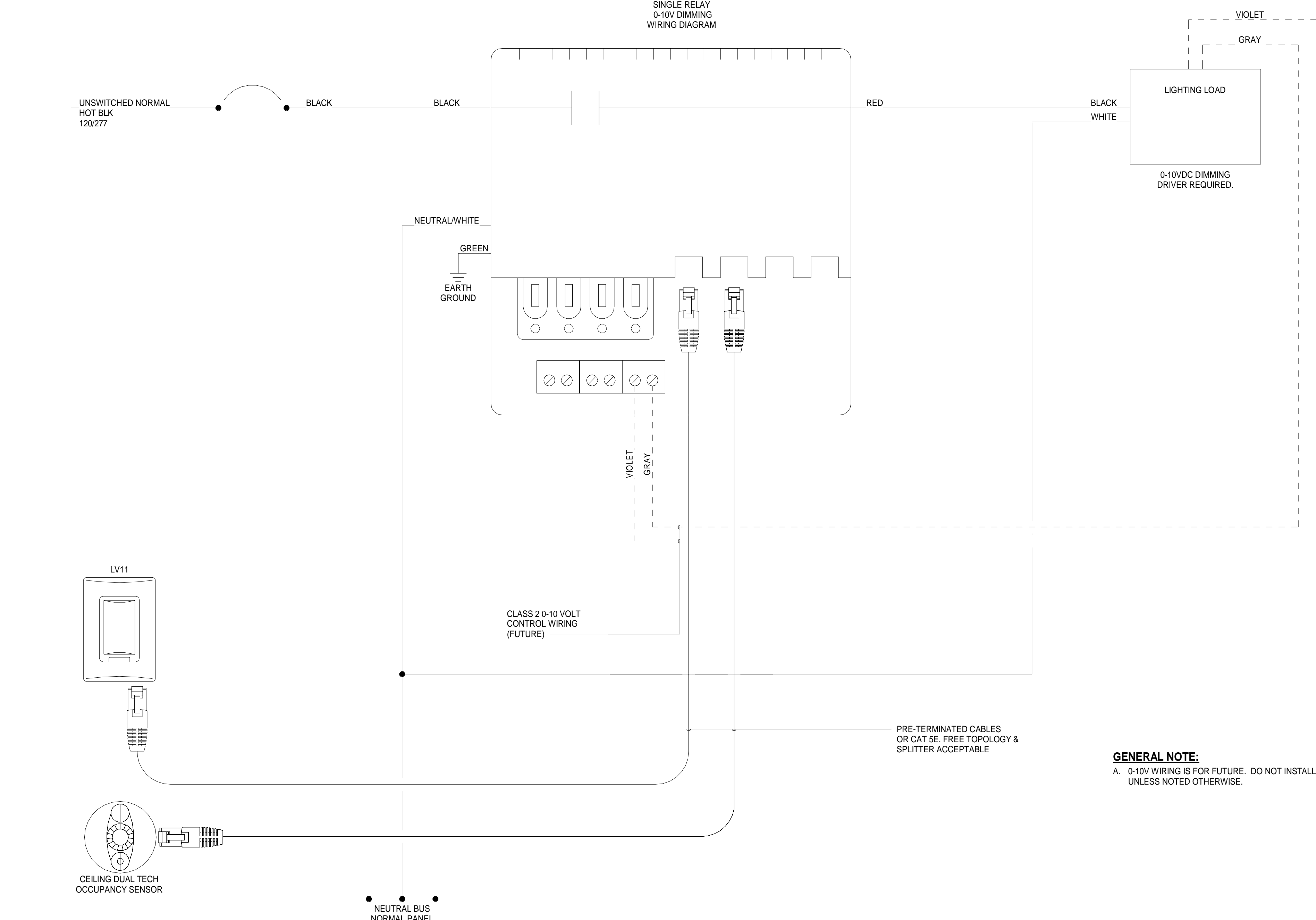
SHEET NUMBER:
E102E

LIGHTING CONTROL SEQUENCE OF OPERATION:

- LIGHTING CONTROL INTENTION IS TO REUSE EXISTING LIGHT FIXTURES AND PROVIDE NEW SPACE ROOM CONTROLLERS (RELAY PACKS), NEW CEILING OCCUPANCY SENSORS AS SHOWN, NEW PHOTOSENSORS/DAYLIGHT SENSORS AS SHOWN, AND NEW LOCAL SWITCHES (LW).**
- ALL NEW COMPONENTS SHALL BE CAPABLE OF DIMMING UNLESS NOTED OTHERWISE. DIMMING MAY NOT BE EXECUTED AS THIS TIME BUT FOR FUTURE CAPABILITY.**
- EXISTING EMERGENCY FIXTURES ARE PRESENTLY CONTROLLED WITH NORMAL ROOM LIGHT FIXTURES. THEREFORE, ASSUMED GENERATOR TRANSFER DEVICES ARE EXISTING. THESE SHALL REMAIN AND BE REUSED WITH NEW LIGHTING CONTROLS.**
- PROVIDE LIGHTING CONTROLS MANUFACTURED BY HUBBEL, ACUTY, COOPER, WATT STOPPER, CRESTRON, OR LEVITON.**
- SYSTEM SHALL BE NETWORKED. PROVIDE NECESSARY "HUBS/BRIDGES" TO PROVIDE NETWORKING BETWEEN ALL SPACES. INTENTION IS TO PROVIDE TIME OF DAY CONTROL AND MONITORING/CONTROLLING OF SYSTEM VIA OWNER PC. CONTRACTOR SHALL PROVIDE RECEPTACLE AND EXTEND 120V-1PHASE, 20A CIRCUIT FROM NEARBY RECEPTACLE(S).**
- MANUFACTURER SHALL PROVIDE NECESSARY SOFTWARE AND TRAINING AS REQUIRED FOR OWNER TO MAINTAIN, PROGRAM, AND OVERRIDE CONTROLS AS NEEDED.**
- MANUFACTURER SHALL PROVIDE SERVICE FOR 2-YEARS AFTER SUBSTANTIAL COMPLETION. SHALL INCLUDE TRAINING AND PROGRAMMING AS REQUESTED.**
- COORDINATE COMMISSIONING WITH OWNER'S AGENT AS REQUIRED PER STATE OF MICHIGAN ENERGY CODE.**
- ALL SWITCHES WITH "LV" ARE LOW VOLTAGE CONTROL. SWITCHES REFER TO FOLLOWING FOR QUANTITY OF BUTTONS AND PROGRAMMING. PROVIDE CAT 6 WIRING OR LINE VOLTAGE WIRING FROM ROOM LIGHTING CIRCUIT AS REQUIRED BY MANUFACTURER.**
- ALL SWITCHES SHALL HAVE CAPABILITY OF BEING LOCKED OUT DURING NORMAL OCCUPIED TIMES PER OWNER DISCRETION.**
- DAYLIGHT HARVESTING REFER TO DRAWINGS FOR PRIMARY AND SECONDARY ZONES. ALL LIGHTS IN THESE AREAS SHALL BE CONTROLLED BY PHOTOSENSING DEVICES FOR AUTOMATIC CONTROL.**
 - PROGRAM DELAY, 10-MINUTES, TO TRANSITION TO SET POINT TO AVOID CLOUDS AND OTHER TEMPORARY NATURAL LIGHT BLOCKAGE.
- EXTERIOR FIXTURES:**
 - BUILDING MOUNTED EGRESS FIXTURES SHALL TURN ON AND OFF VIA ROOM CONTROLLERS AND ASTRONOMICAL CLOCK. LUMINAIRES TO TURN ON AT 100% 30 MINUTES BEFORE SUNSET AND TURN COMPLETELY OFF 30 MINUTES AFTER SUNRISE.
 - SITE POLE LUMINAIRES, BUILDING WALL MOUNTED EXTERIOR, CANOPY, SOLLARD, AND FLAG POLES LUMINAIRES TO TURN ON AND OFF VIA ROOM CONTROLLERS AND ASTRONOMICAL CLOCK. LUMINAIRES TO TURN ON AT 100% 30 MINUTES BEFORE SUNSET AND TURN COMPLETELY OFF 30 MINUTES AFTER SUNRISE. ROOM CONTROLLERS LOCATED NEAR PANEL WHERE CIRCUIT ORIGINATES FROM.
- CLASSROOMS:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT SENSOR, AND CONTROL STATION.
 - PROVIDE 2 ZONES OF LIGHTING:
 - ZONE 1: MAIN
 - ZONE 2: FRONT
 - ZONE 1 LIGHTING TO COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - UPON ENTRY TO SPACE, ZONE 1 LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - ALL LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING SENSOR.
 - LV1 STATIONS SHALL INCLUDE BUTTONS:
 - ON/OFF (ALL ZONES)
 - MAIN (ON/OFF)
 - FRONT (ON/OFF)
 - RAISE (FUTURE CABILITY)
 - LOWER (FUTURE CABILITY)
- PREP:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - PROVIDE 2 ZONES OF LIGHTING:
 - MAIN
 - WORK AREA
 - UPON ENTRY TO SPACE, MAIN LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LV2 STATIONS SHALL INCLUDE BUTTONS:
 - ALL ON/OFF
 - MAIN ON/OFF
 - WORK ON/OFF
 - (3) FUTURE BUTTONS FOR RAISING/LOWERING/SCENES
- LARGE OFFICE, SERVING, PLANNING, WEIGHT ROOM, CONTROL ROOM, VIDEO LAB, RECEIVING, LOUNGE, KITCHEN, SERVING, TECH LAB:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - LIGHTING TO COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - UPON ENTRY TO SPACE, ALL LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LV3 STATIONS SHALL INCLUDE BUTTONS:
 - ON/OFF
 - (3) FUTURE BUTTONS FOR RAISING/LOWERING/SCENES
- COMMUNITY:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - PROVIDE 3 ZONES OF LIGHTING:
 - ZONE 1: MAIN LIGHTING
 - ZONE 2: FRONT OF ROOM
 - ZONE 3: BACKLIT DISPLAYS
 - UPON ENTRY TO SPACE, MAIN ROOM LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LV4 STATIONS SHALL INCLUDE BUTTONS:
 - ON/OFF (ALL LIGHTS)
 - MAIN (ON/OFF)
 - FRONT (ON/OFF)
 - 50% (FUTURE PROGRAM ALL LIGHTS IN SPACE TO 50%)
 - RAISE (FUTURE CABILITY)
 - LOWER (FUTURE CABILITY)
- MULTI-PURPOSE, CADD LAB:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - LIGHTING TO COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - PROVIDE 2 ZONES OF LIGHTING:
 - ZONE 1: MAIN LIGHTING
 - ZONE 2: FRONT OF ROOM
 - UPON ENTRY TO SPACE, MAIN ROOM LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSORS.
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING OCCUPANCY SENSORS.
 - LV5 STATIONS SHALL INCLUDE BUTTONS:
 - ON/OFF
 - MAIN (ON/OFF)
 - FRONT (ON/OFF)
 - RAISE (FUTURE CABILITY)
 - LOWER (FUTURE CABILITY)
- CORRIDORS, ENTRY, VESTIBULE, LOBBY, AND STAIRS:**
 - PROVIDE NEW NON-DIMMING ROOM CONTROLLER AND CONTROL STATION.
 - LIGHTING TO COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LV6 STATIONS SHALL INCLUDE BUTTONS:
 - ON
 - OFF
- MEDIA CENTER:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - LIGHTING TO COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - PROVIDE 4 ZONES OF LIGHTING:
 - ZONE 1: LOWER LIGHTING
 - ZONE 2: HIGH LIGHTS
 - ZONE 3: HIGH LIGHTS
 - ZONE 4: DAYLIGHT HARVEST
 - UPON ENTRY TO SPACE, ZONE 1, 2, AND 3 LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSORS.
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING SENSORS.
 - PHOTOSENSOR SHALL CONTROL ZONE 4 LIGHTS.
 - LV7 STATIONS SHALL INCLUDE BUTTONS:
 - ON/OFF
 - ZONE 1 (ON/OFF)
 - ZONE 2 (ON/OFF)
 - ZONE 3 (ON/OFF)
 - ZONE 4 (ON/OFF)
 - RAISE (FUTURE CABILITY)
 - LOWER (FUTURE CABILITY)
- CONFERENCE ROOMS, MAIL ROOM, DRESSING, OPERATIONS:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - UPON ENTRY TO SPACE, ALL LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LV8 STATIONS SHALL INCLUDE BUTTONS:
 - ON/OFF
 - (3) FUTURE BUTTONS FOR RAISING/LOWERING/SCENES
- COMMONS:**
 - PROVIDE NEW ROOM CONTROLLER, DAYLIGHT SENSORS, AND CONTROL STATION.
 - ZONES 2, 3, AND 4 SHALL COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - PROVIDE 4 ZONES OF LIGHTING:
 - ZONE 1: LOWER LIGHTING
 - ZONE 2: UPPER LIGHTS WITH DAYLIGHTING
 - ZONE 3: UPPER LIGHTS WITH DAYLIGHTING
 - ZONE 4: UPPER LIGHTS
 - ALL LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY IN ASSOCIATED AREA AND THEN TURN OFF LIGHTS IN ASSOCIATED AREA.
 - PHOTOSENSOR SHALL CONTROL ZONE 2 LIGHTS.
 - PHOTOSENSOR SHALL CONTROL ZONE 3 LIGHTS.
 - LV9 STATIONS SHALL INCLUDE BUTTONS:
 - ALL ON/OFF
 - ZONE 1 LIGHTING
 - UPPER LIGHT (ZONES 2, 3, AND 4)
 - RAISE (FUTURE CABILITY)
 - LOWER (FUTURE CABILITY)
- MULTI-GANG RESTROOMS:**
 - PROVIDE NEW NON-DIMMING ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - LIGHTING TO COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - UPON ENTRY TO SPACE, ALL LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LV10 STATIONS SHALL INCLUDE BUTTONS:
 - ON
 - OFF
- LARGE STORAGE:**
 - PROVIDE NEW NON-DIMMING ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - UPON ENTRY TO SPACE LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING STYLE SENSOR.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING STYLE SENSOR.
 - LV11 STATIONS SHALL INCLUDE BUTTONS:
 - ON
 - OFF
- BIOLOGY, CHEMISTRY, LIFE SKILLS, INSTRUMENTAL, VOCAL, AND COMPUTER LAB:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT HARVEST, AND CONTROL STATION.
 - PROVIDE 3 ZONES OF LIGHTING:
 - ZONE 1: MAIN LIGHTING
 - ZONE 2: FRONT OF ROOM
 - ZONE 3: COURT LIGHTING
 - MAIN LIGHTING TO COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - UPON ENTRY TO SPACE, MAIN ROOM LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LV12 STATIONS SHALL INCLUDE BUTTONS:
 - ON/OFF (ALL LIGHTS)
 - MAIN (ON/OFF)
 - FRONT (ON/OFF)
 - RAISE (FUTURE CABILITY)
 - LOWER (FUTURE CABILITY)
- FIELDHOUSE AND TRACK:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT HARVEST, AND CONTROL STATION.
 - PROVIDE 3 ZONES OF LIGHTING:
 - ZONE 1: OUTER LIGHTING
 - ZONE 2: OUTER LIGHTING
 - ZONE 3: COURT LIGHTING
 - ZONE 4: COURT LIGHTING
 - ZONE 5: COURT LIGHTING
 - ZONE 6: COURT LIGHTING
 - ZONE 7: TRACK W (DAYLIGHTING)
 - ZONE 8: TRACK E (DAYLIGHTING)
 - ZONE 9: BLEACHERS
 - COURT LIGHTING ZONES SHALL COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - ALL LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - PHOTOSENSOR SHALL CONTROL ZONE 1 LIGHTS.
 - PHOTOSENSOR SHALL CONTROL ZONE 8 LIGHTS.
 - LV13 STATIONS SHALL INCLUDE BUTTONS:
 - ALL ON/OFF
 - COURT ON/OFF
 - PERIMETER ON/OFF
 - TRACK ON/OFF
 - 50% (FUTURE PROGRAM ALL LIGHTS IN SPACE TO 50%)
 - RAISE (FUTURE CABILITY)
 - LOWER (FUTURE CABILITY)
- MAKE-UP:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - PROVIDE 2 ZONES OF LIGHTING:
 - MAIN
 - MIRROR
 - UPON ENTRY TO SPACE, MAIN LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LIGHTING TO TURN OFF AT 11PM (CONFIRM TIME WITH OWNER).
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR.
 - LV14 STATIONS SHALL INCLUDE BUTTONS:
 - ALL ON/OFF
 - MAIN ON/OFF
 - MIRROR ON/OFF
 - (3) FUTURE BUTTONS FOR RAISING/LOWERING/SCENES
- ART:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - PROVIDE 4 ZONES OF LIGHTING:
 - ZONE 1: MAIN LIGHTING
 - ZONE 2: PERIMETER LIGHTING
 - ZONE 3: TRACK 'A'
 - ZONE 4: TRACK 'B'
 - ZONE 5: TRACK 'C'
 - ZONE 6: TRACK 'D'
 - RAISE/LOWER (FUTURE CAPABILITY)
 - ZONE 1 SHALL COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - UPON ENTRY TO SPACE, ZONE 1 SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSORS.
 - ALL LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF.
 - LV15 STATIONS SHALL INCLUDE BUTTONS:
 - MAIN
 - PERIMETER
 - TRACK A
 - TRACK B
 - TRACK C
 - TRACK D
 - RAISE/LOWER (FUTURE CAPABILITY)
- SCENE SHOP:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.
 - ZONES 1, 2, AND 3 SHALL COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - PROVIDE 5 ZONES OF LIGHTING:
 - ZONE 1: MAIN LIGHTING
 - ZONE 2: TRACK 'A'
 - ZONE 3: TRACK 'B'
 - ZONE 4: TRACK 'C'
 - ZONE 5: TRACK 'D'
 - RAISE/LOWER (FUTURE CAPABILITY)
 - UPON ENTRY TO SPACE, ZONE 1 SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSORS.
 - ALL LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF.
 - LV16 STATIONS SHALL INCLUDE BUTTONS:
 - MAIN
 - TRACK A
 - TRACK B
 - TRACK C
 - TRACK D
 - RAISE/LOWER (FUTURE CAPABILITY)
- CONCOURSE:**
 - PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT SENSORS, AND CONTROL STATION.
 - ZONES 1, 2, AND 3 SHALL COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).
 - PROVIDE 4 ZONES OF LIGHTING:
 - ZONE 1: LOWER CANS LIGHTING
 - ZONE 2: FIXTURES
 - ZONE 3: UPPER LIGHTS WITH DAYLIGHTING
 - ZONE 4: TRACK
 - UPON ENTRY TO SPACE, ZONE 1, 2, AND 3 LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSORS.
 - EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER DEVICE.
 - PHOTOSENSOR SHALL CONTROL ZONE 3 LIGHTS.
 - LV17 STATIONS SHALL INCLUDE BUTTONS:
 - ALL ON/OFF
 - RAISE (FUTURE CABILITY)
 - LOWER (FUTURE CABILITY)
- SMALL OFFICES, AND LARGE STORAGE SPACES:**
 - LIGHTING TO COME ON AUTOMATICALLY AT 100% UPON ENTRANCE TO SPACE VIA SWITCH-STYLE OCCUPANCY SENSOR.
 - SWITCH STYLE SENSOR SHALL HAVE CAPABILITY OF DIMMING.
- JANITOR CLOSETS WITHOUT PANELS AND SMALL STORAGE:**
 - LIGHTING TO COME ON AUTOMATICALLY AT 100% UPON ENTRANCE TO SPACE VIA SWITCH-STYLE OCCUPANCY SENSOR.
- ELECTRICAL, MECHANICAL, BOILER, IT, IDF, JANITOR CLOSETS WITH PANELS:**
 - MANUAL ON/OFF.



1 ROOM CONTROLLER LV1
SCALE : N.T.S.



2 ROOM CONTROLLER LV11
SCALE : N.T.S.

GENERAL NOTE:
A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.

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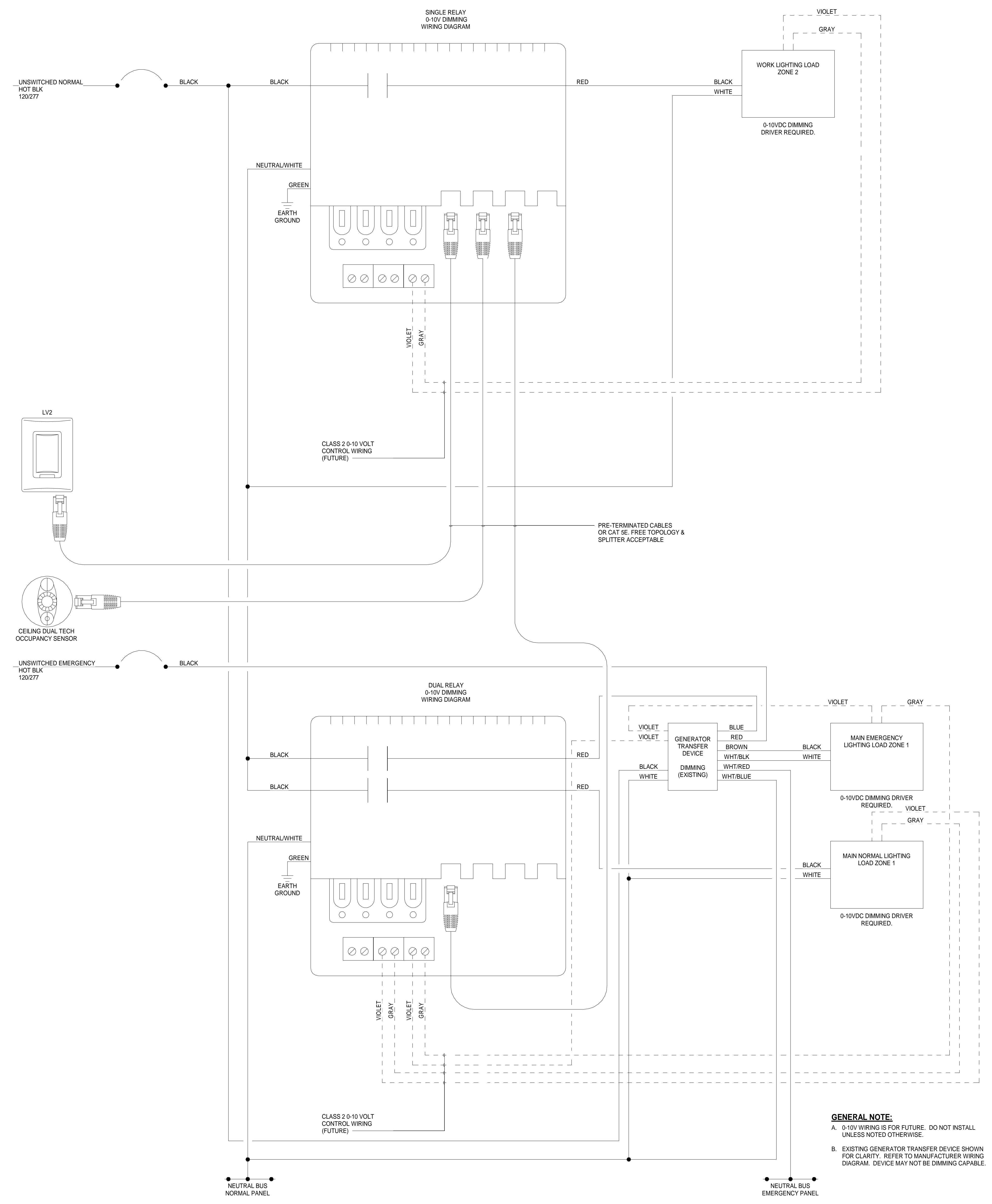
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NO.	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	REV

NO.	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	REV

ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS FOR ORCHARD VIEW SCHOOLS
16 N. QUARTERLINE MUSKOGON, MI 49442

Colliers Lansing 7050 West Saginaw Hwy Suite 200 Lansing, MI 48917 Phone: 517.272.9835
Engineering & Design
SCALE: AS SHOWN DATE: 12/10/24 DRAWN BY: CTN CHECKED BY: AR PROJECT NUMBER: 24010375A DRAWING NAME: REVIEWED BY: AR SHEET TITLE: DETAILS SHEET NUMBER: E701



1 ROOM CONTROLLER LV2
SCALE: N.T.S.

GENERAL NOTE:
 A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.
 B. EXISTING GENERATOR TRANSFER DEVICE SHOWN FOR CLARITY. REFER TO MANUFACTURER WIRING DIAGRAM. DEVICE MAY NOT BE DIMMING CAPABLE.

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REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	BRD

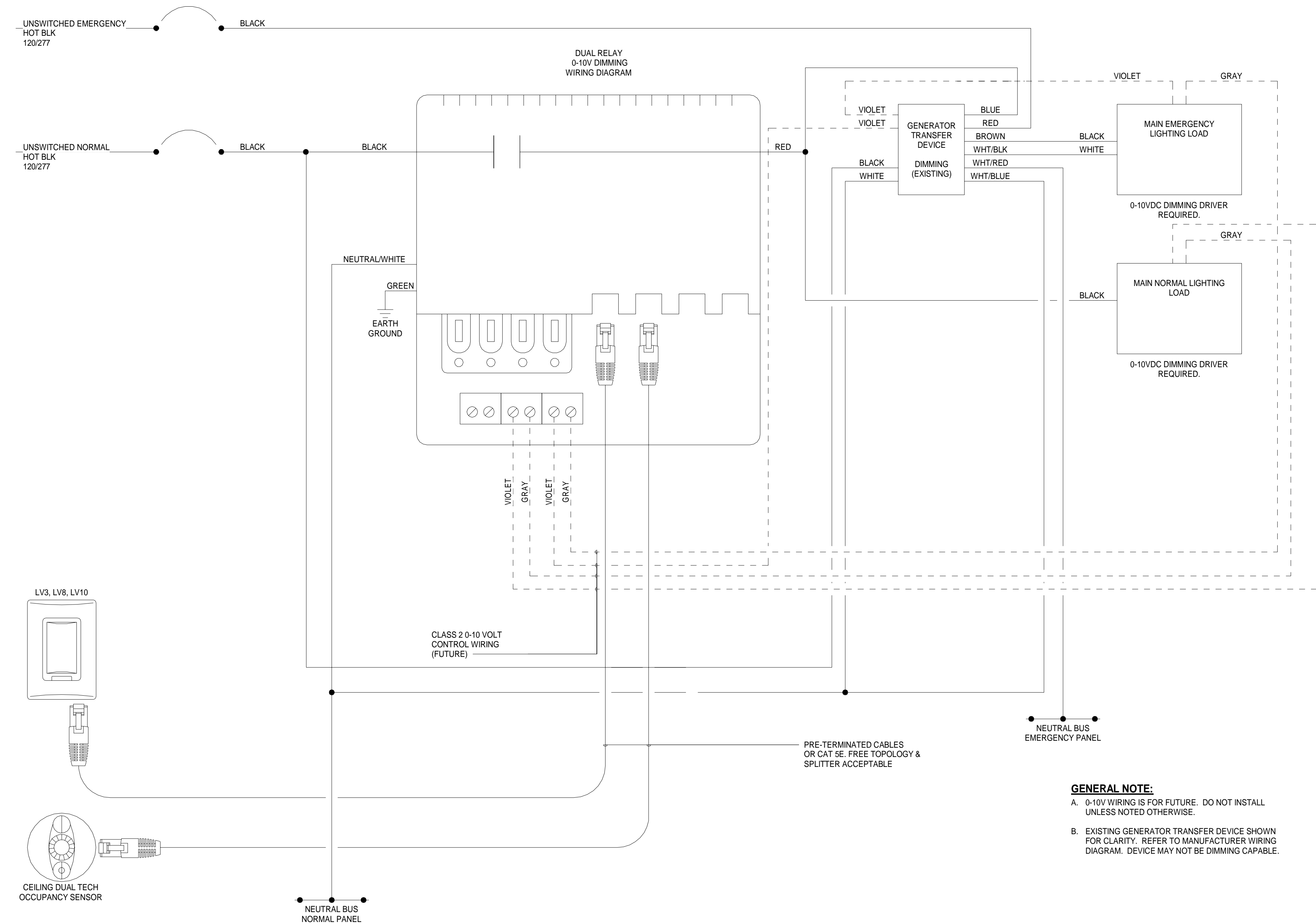
ORCHARD VIEW
 HIGH SCHOOL
 LIGHTING
 CONTROLS
 FOR
 ORCHARD VIEW
 SCHOOLS

16 N. QUARTERLINE
 MUSKEGON, MI
 49442

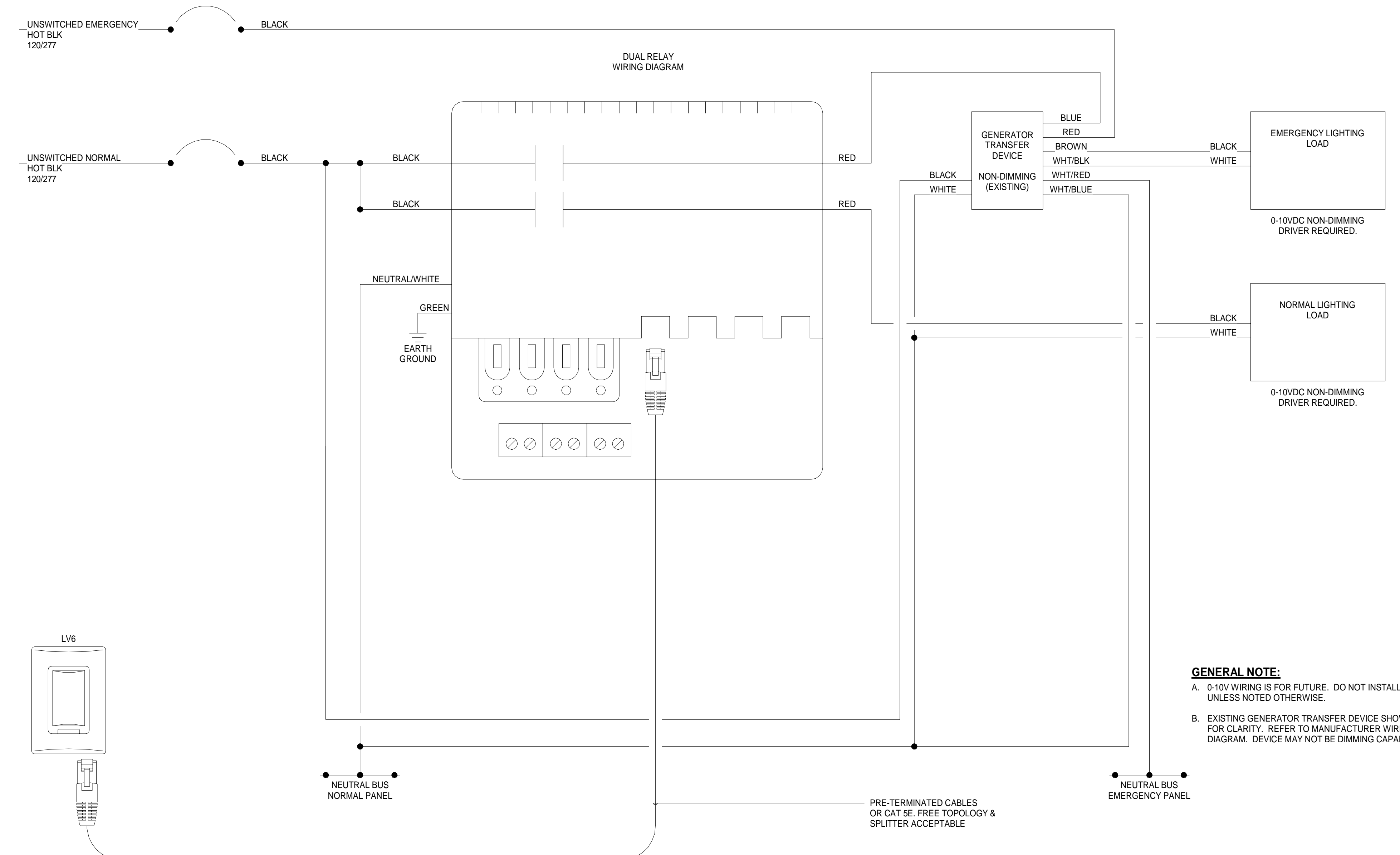
Colliers
 Engineering & Design
 LANSING
 7050 West Saginaw Hwy
 Suite 200
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 Phone: 517.272.9835

SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	12/10/24	CTN	AR
PROJECT NUMBER	DRAWING NAME	REVIEWED BY	
24010375A		AR	

SHEET TITLE:
 DETAILS
 SHEET NUMBER:
 E702



1 ROOM CONTROLLER LV3 / LV8 / LV10
SCALE : N.T.S.



2 ROOM CONTROLLER LV6
SCALE : N.T.S.

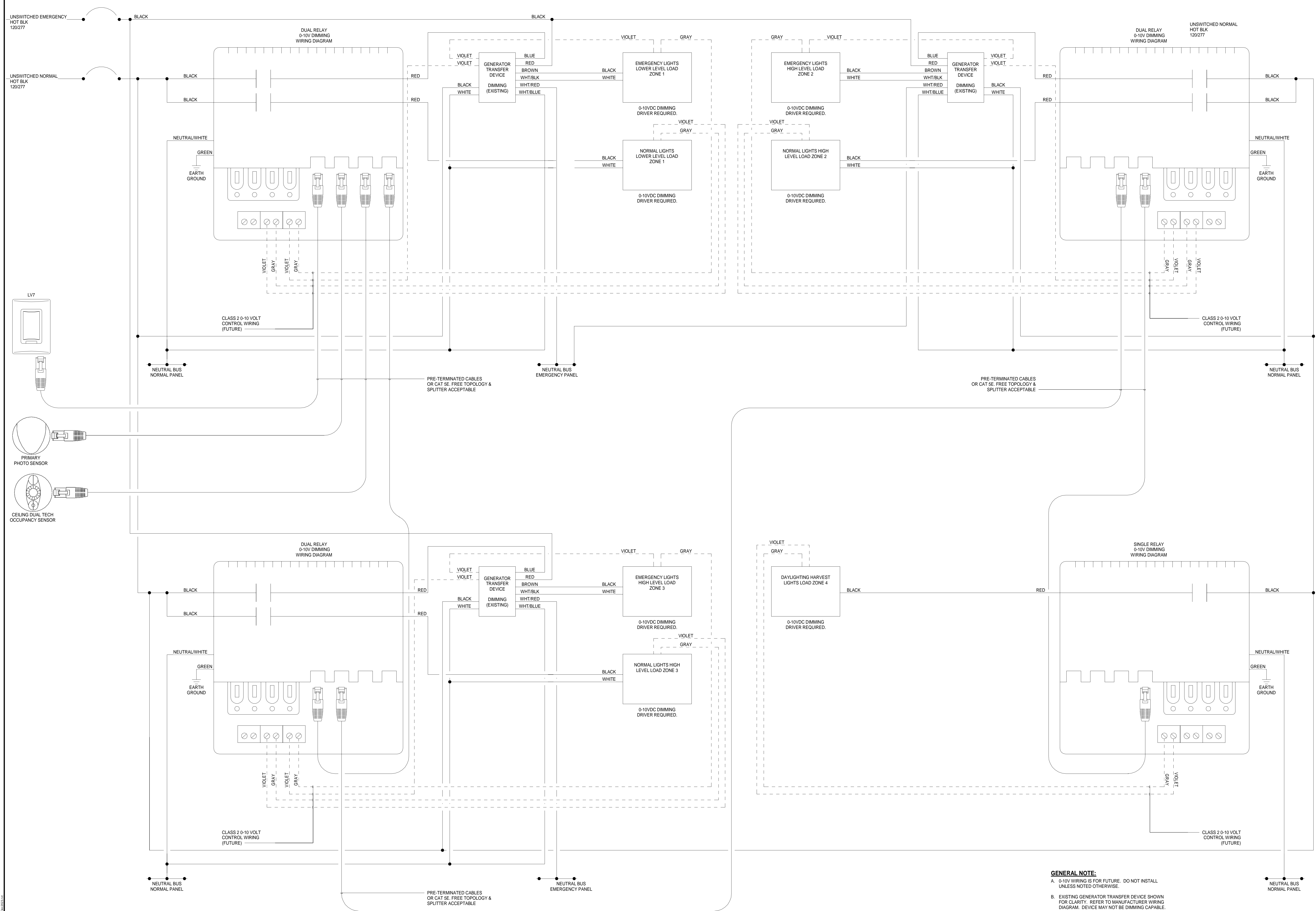
GENERAL NOTE:
 A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.
 B. EXISTING GENERATOR TRANSFER DEVICE SHOWN FOR CLARITY. REFER TO MANUFACTURER WIRING DIAGRAM. DEVICE MAY NOT BE DIMMING CAPABLE.

GENERAL NOTE:
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REV	DATE	DESCRIPTION	BY	CHKD
1	12/10/24	100% REVIEW	BRD	
2	01/07/25			

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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 ROOM CONTROLLER LV7
SCALE: 1:N.T.S.

GENERAL NOTE:
 A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.
 B. EXISTING GENERATOR TRANSFER DEVICE SHOWN FOR CLARITY. REFER TO MANUFACTURER WIRING DIAGRAM. DEVICE MAY NOT BE DIMMING CAPABLE.

NO.	DATE	DESCRIPTION
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2	01/07/25	BRD

REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	BRD

REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	BRD

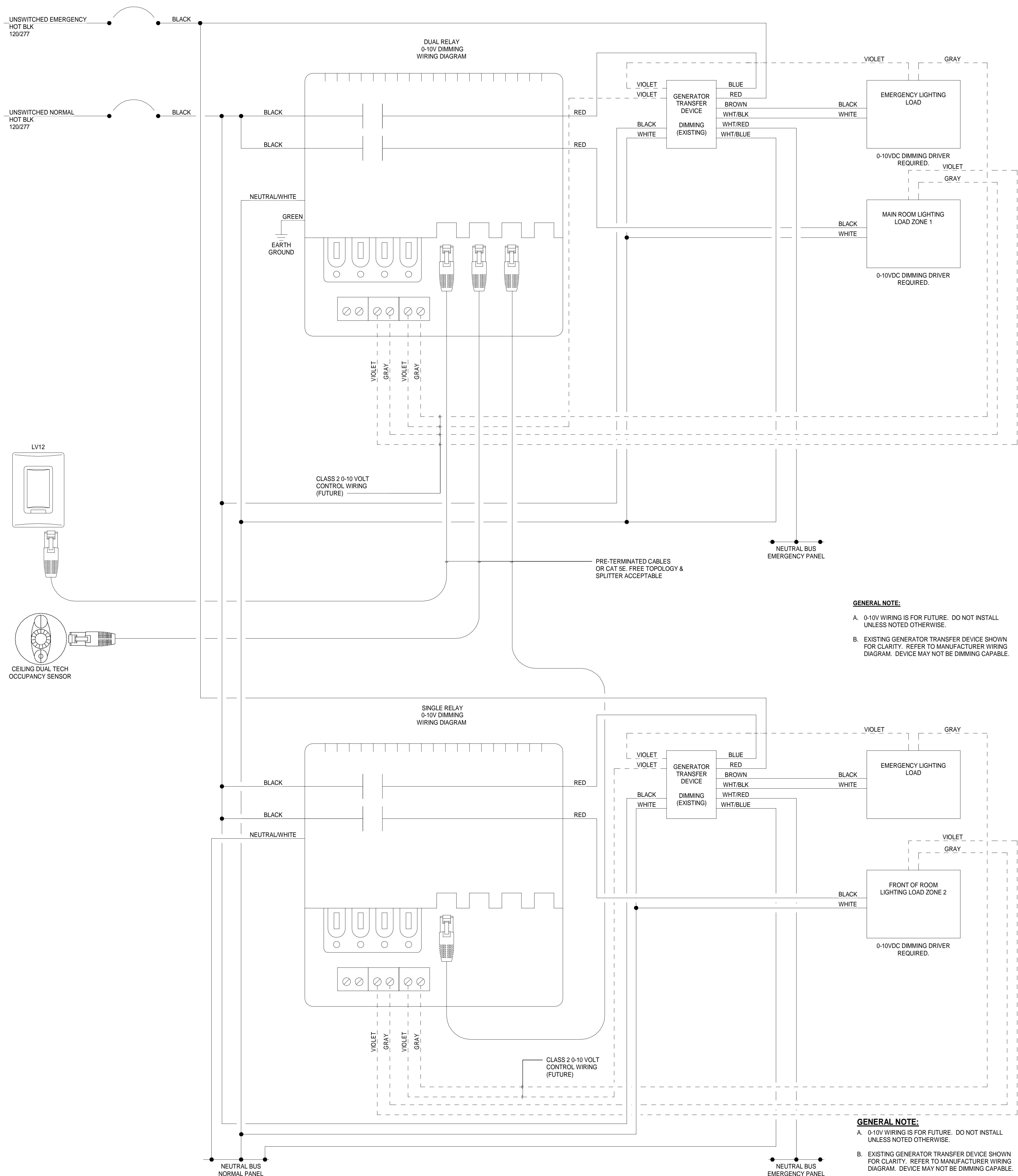
ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS FOR ORCHARD VIEW SCHOOLS

16 N. QUARTERLINE MUSKEGON, MI 49442

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 LANSING 7050 West Saginaw Hwy Suite 200 Lansing, MI 48917 Phone: 517.272.9835

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SHEET TITLE: **DETAILS**
 SHEET NUMBER: **E705**



1 ROOM CONTROLLER LV12
SCALE: N.T.S.

REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	100% REVIEW

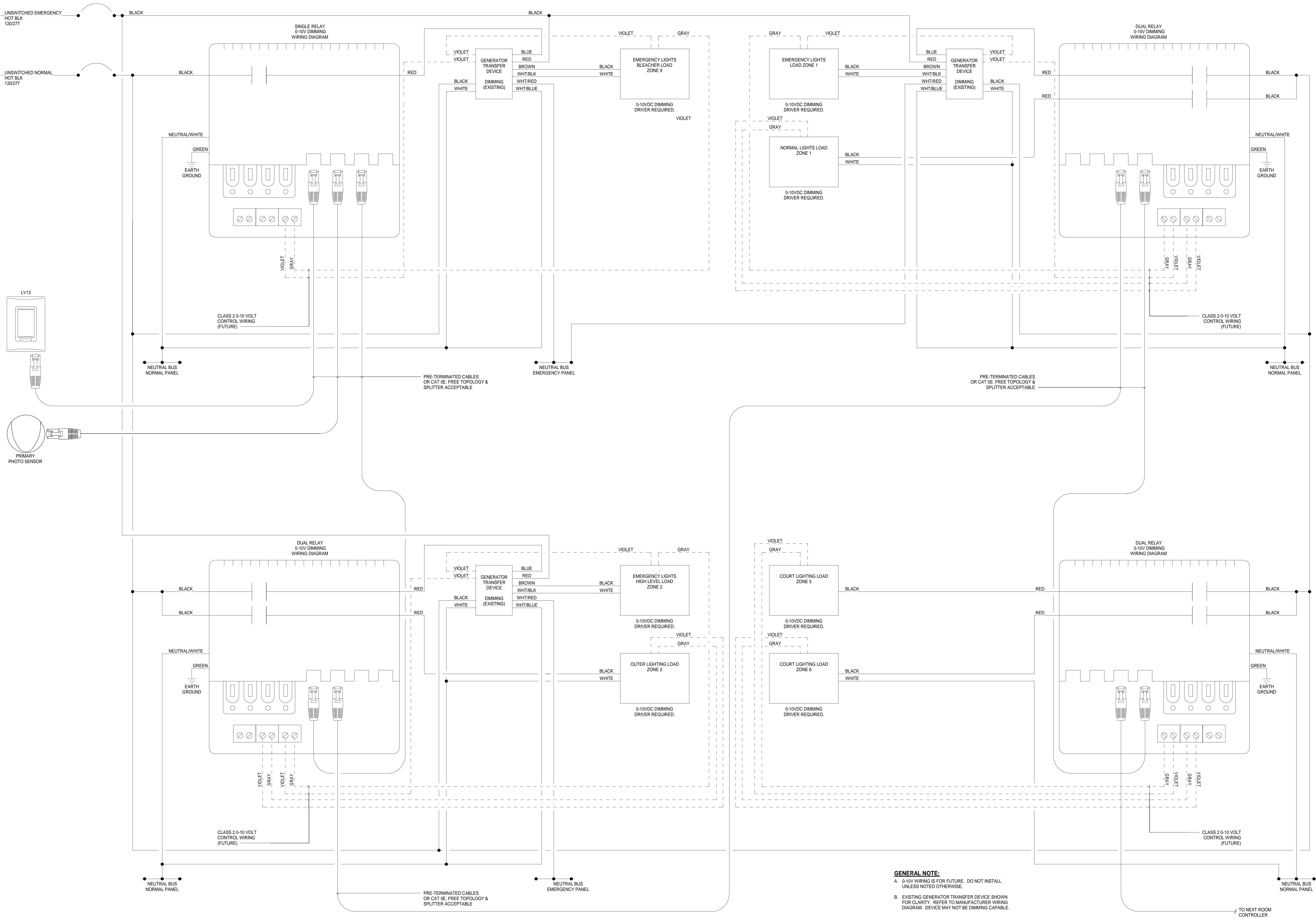
ORCHARD VIEW
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LIGHTING
CONTROLS
FOR
ORCHARD VIEW
SCHOOLS

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MUSKEGON, MI
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LANSHING
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Suite 200
Lansing, MI 48917
Phone: 517.272.9835

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SHEET TITLE:
DETAILS
SHEET NUMBER:
E707



GENERAL NOTE:
 A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.
 B. EXISTING GENERATOR TRANSFER DEVICE SHOWN FOR CLARITY. REFER TO MANUFACTURER WIRING DIAGRAM. DEVICE MAY NOT BE DIMMING CAPABLE.

1 ROOM CONTROLLER LV13
 SCALE: N.T.S.

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2	01/07/25	REV

NO.	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	REV

NO.	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	REV

NO.	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	REV

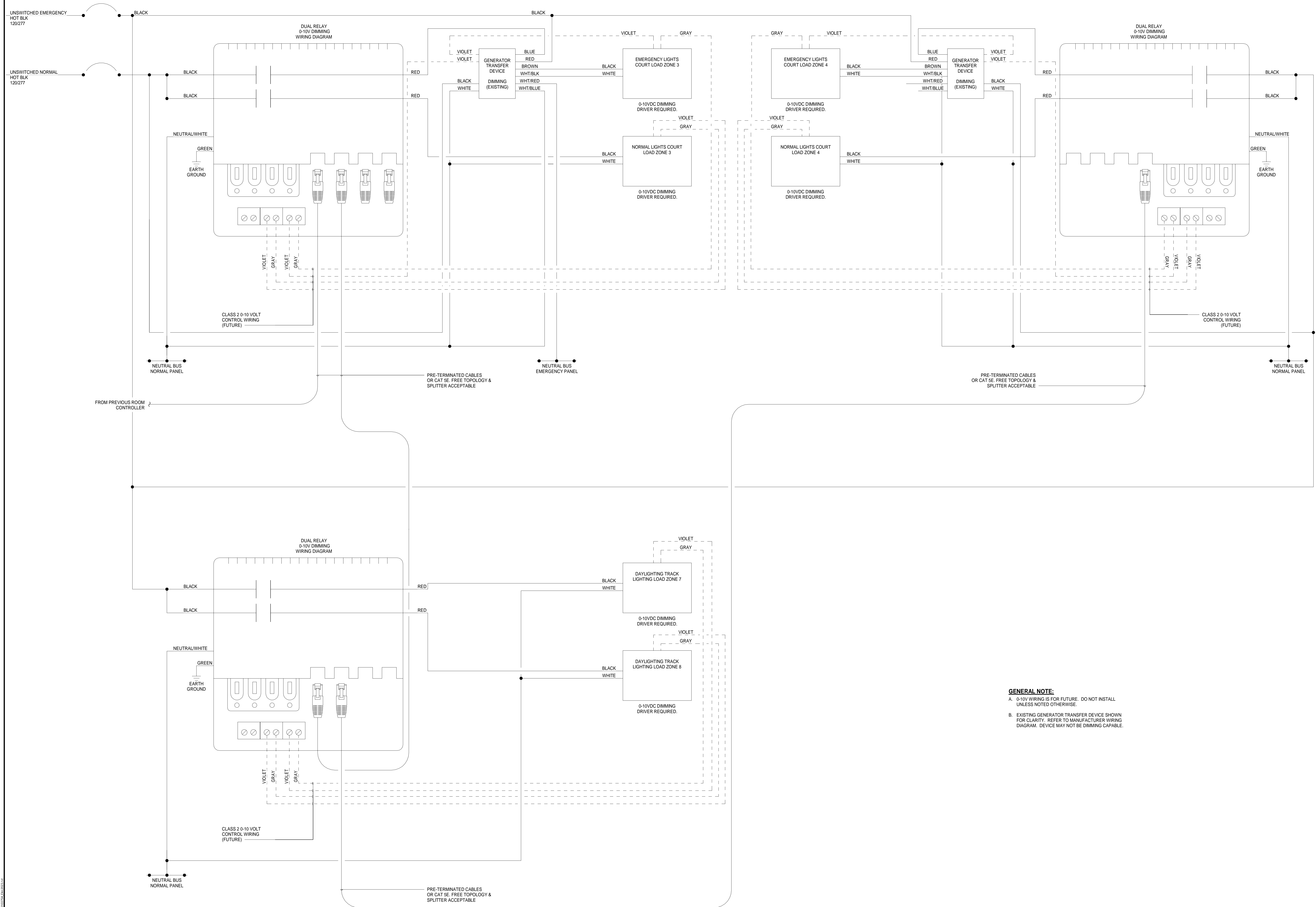
ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS FOR ORCHARD VIEW SCHOOLS

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SCALE:	DATE:	DRAWN BY:	CHECKED BY:
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PROJECT NUMBER:	DRAWING NAME:	REVIEWED BY:	DATE:
24010375A		AR	

SHEET TITLE: **DETAILS**
 SHEET NUMBER: **E708**



GENERAL NOTE:
 A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.
 B. EXISTING GENERATOR TRANSFER DEVICE SHOWN FOR CLARITY. REFER TO MANUFACTURER WIRING DIAGRAM. DEVICE MAY NOT BE DIMMING CAPABLE.

1 ROOM CONTROLLER LV13 (CONT.)
 SCALE : N.T.S.

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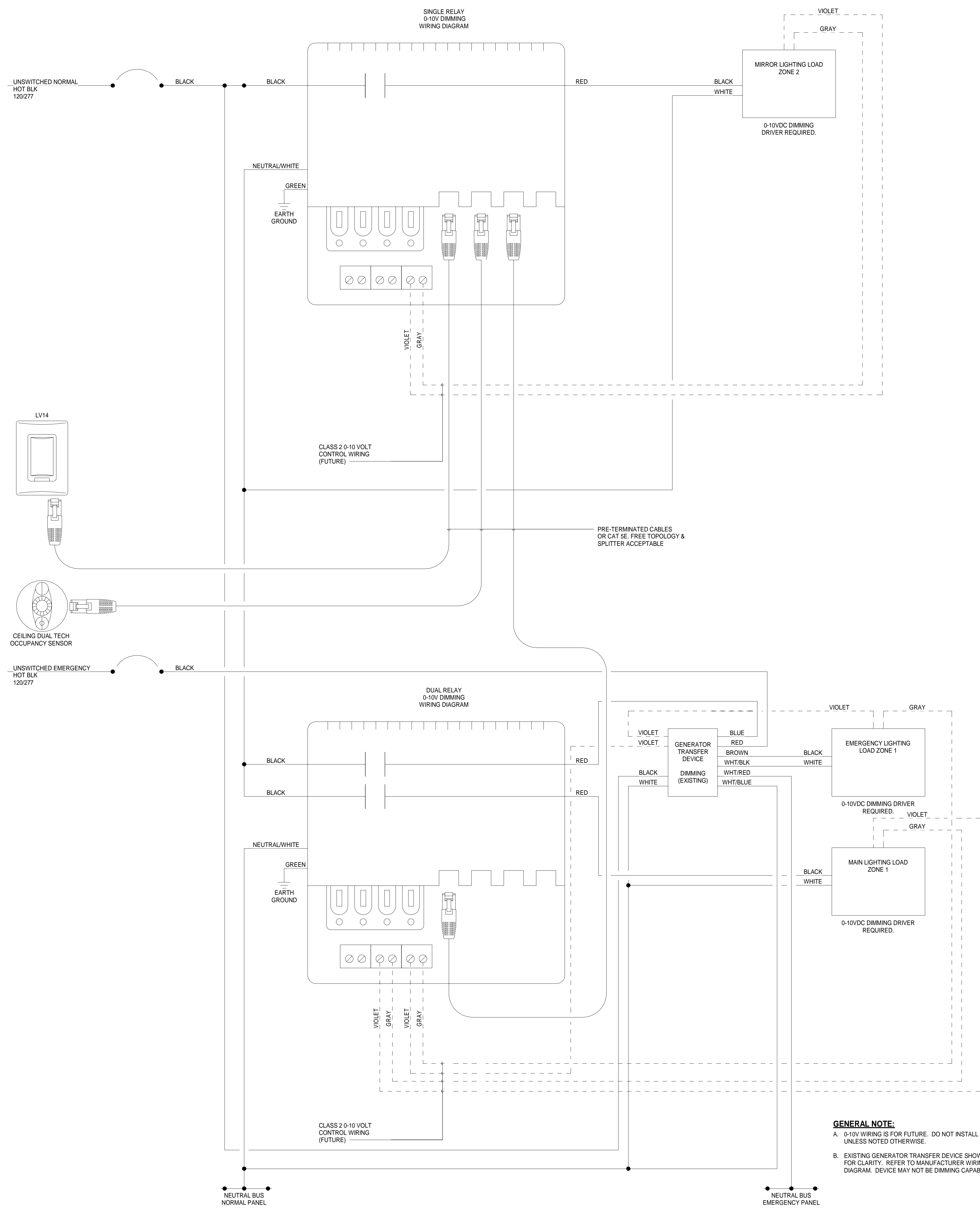
REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
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PROJECT NUMBER	DRAWING NAME	REVIEWED BY	
24010375A		AR	

SHEET TITLE: **DETAILS**
 SHEET NUMBER: **E709**

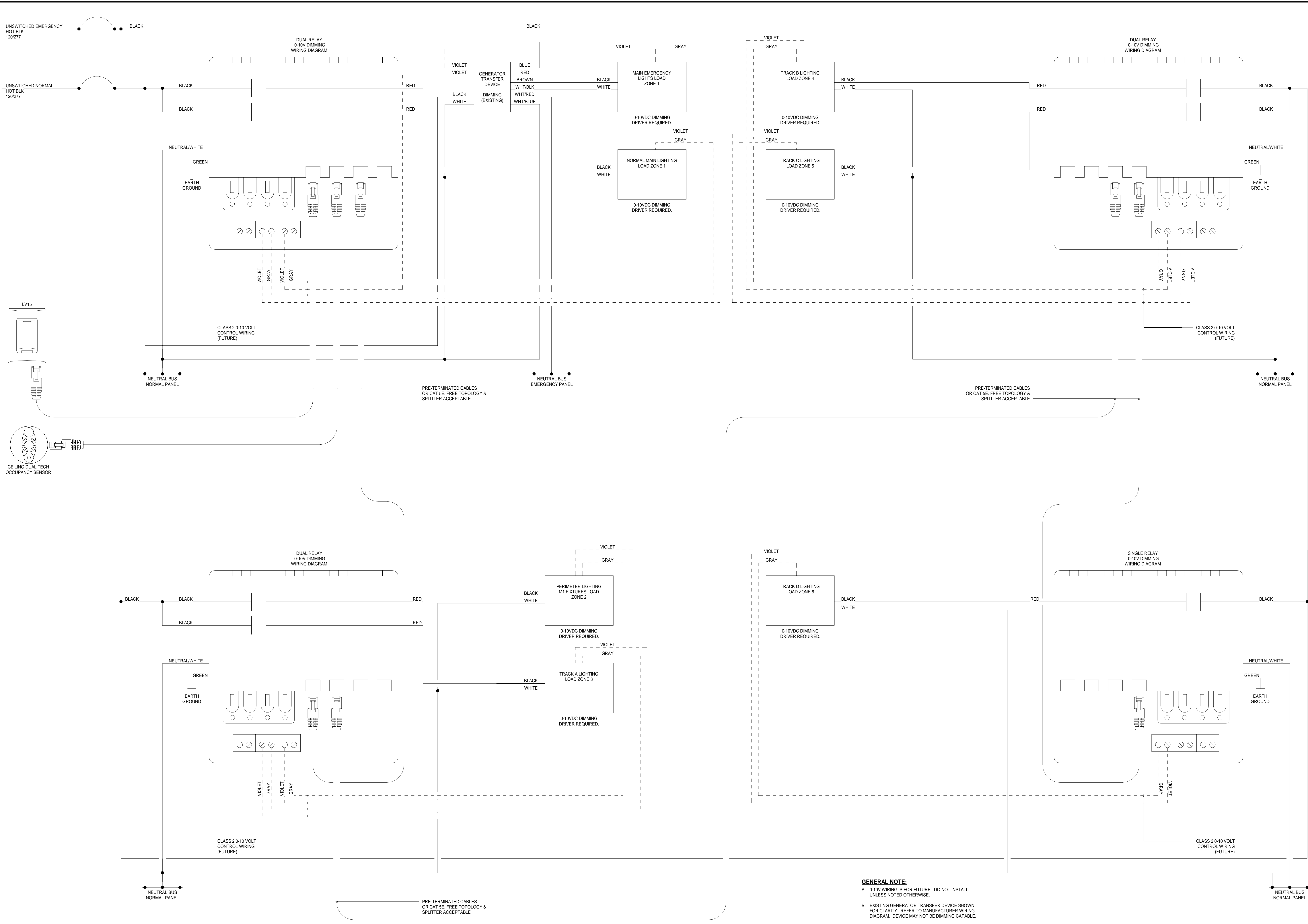


GENERAL NOTE:
 A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.
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1 ROOM CONTROLLER LV14
 SCALE: N.T.S.

REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
2	01/07/25	100% REVIEW

ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS FOR ORCHARD VIEW SCHOOLS
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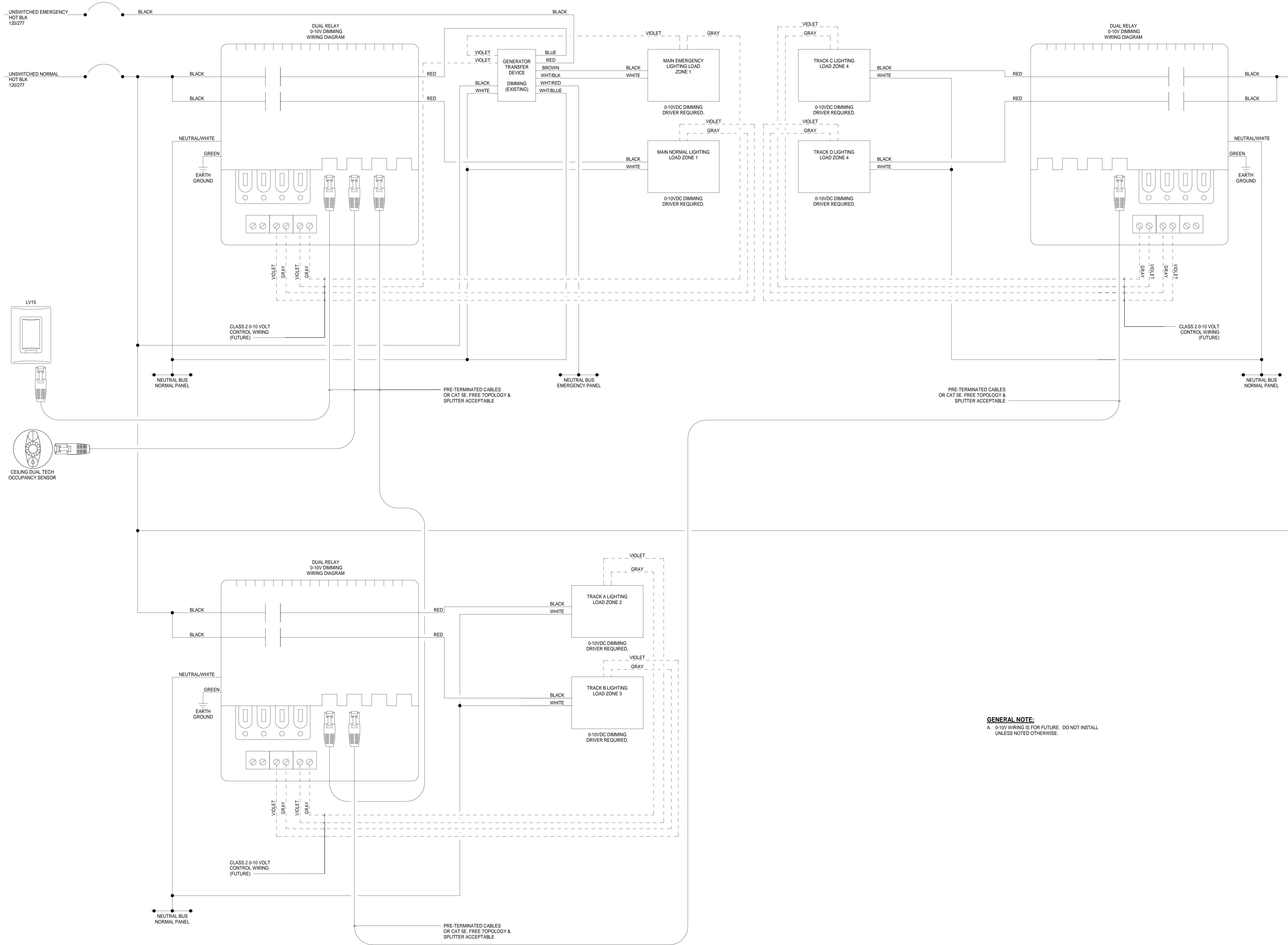
1 ROOM CONTROLLER LV15
SCALE: N.T.S.

GENERAL NOTE:
 A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.
 B. EXISTING GENERATOR TRANSFER DEVICE SHOWN FOR CLARITY. REFER TO MANUFACTURER WIRING DIAGRAM. DEVICE MAY NOT BE DIMMING CAPABLE.

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ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS FOR ORCHARD VIEW SCHOOLS
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PROJECT NUMBER	DRAWING NAME	REVIEWED BY	
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GENERAL NOTE:
 A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.

1 ROOM CONTROLLER LV16
 SCALE: N.T.S.

REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
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 Phone: 517.272.9835

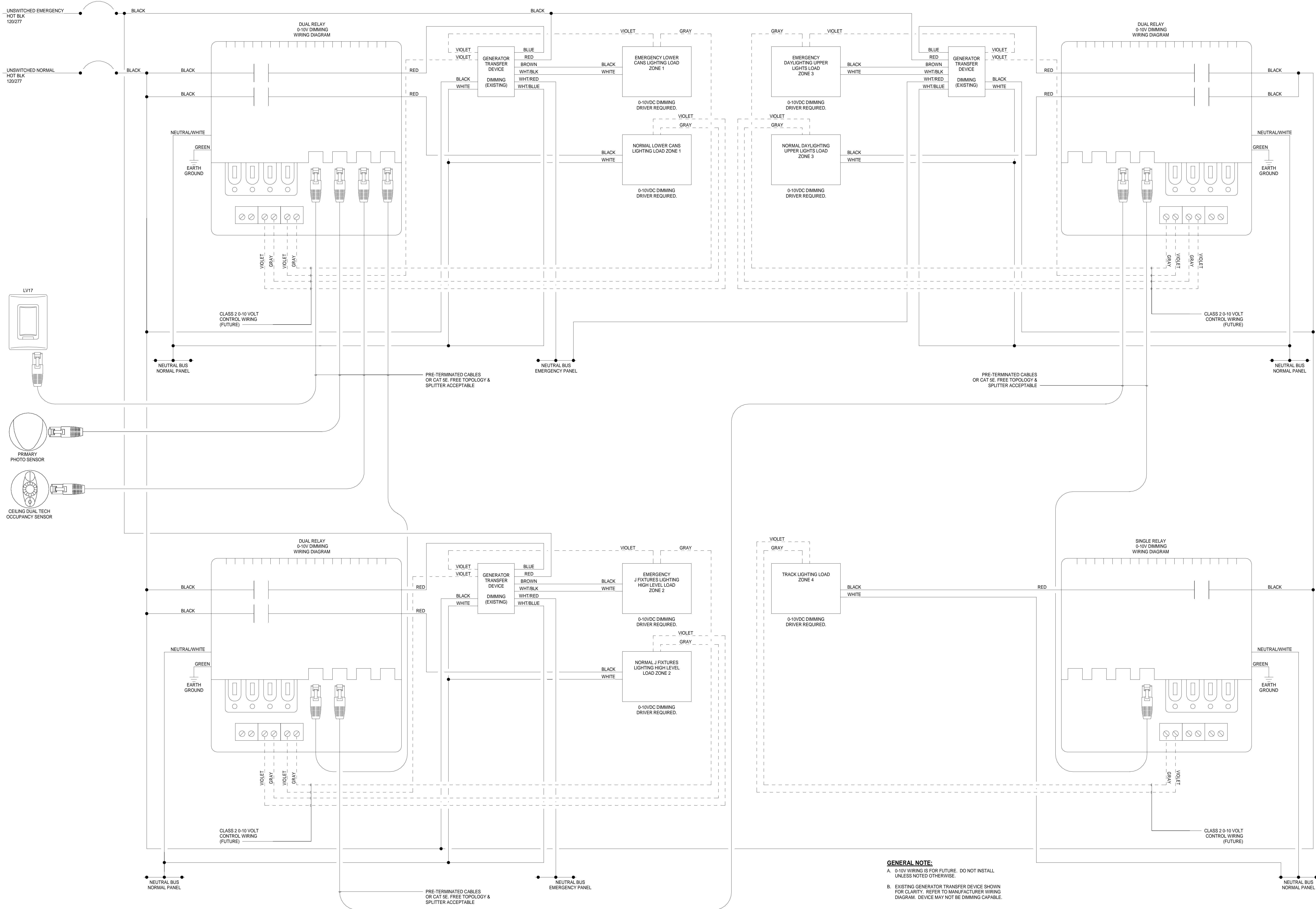
SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	12/10/24	CTN	AR
PROJECT NUMBER:	24010375A	DRAWING NAME:	REVIEWED BY:
			AR

SHEET TITLE:

DETAILS

SHEET NUMBER:

E712



GENERAL NOTE:
 A. 0-10V WIRING IS FOR FUTURE. DO NOT INSTALL UNLESS NOTED OTHERWISE.
 B. EXISTING GENERATOR TRANSFER DEVICE SHOWN FOR CLARITY. REFER TO MANUFACTURER WIRING DIAGRAM. DEVICE MAY NOT BE DIMMING CAPABLE.

1 ROOM CONTROLLER LV17
 SCALE : N.T.S.

REV	DATE	DESCRIPTION
1	12/10/24	100% REVIEW
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SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	12/10/24	CTN	AR
PROJECT NUMBER:	24010375A	DRAWING NAME:	REVIEWED BY:
			AR

SHEET TITLE: **DETAILS**
 SHEET NUMBER: **E713**