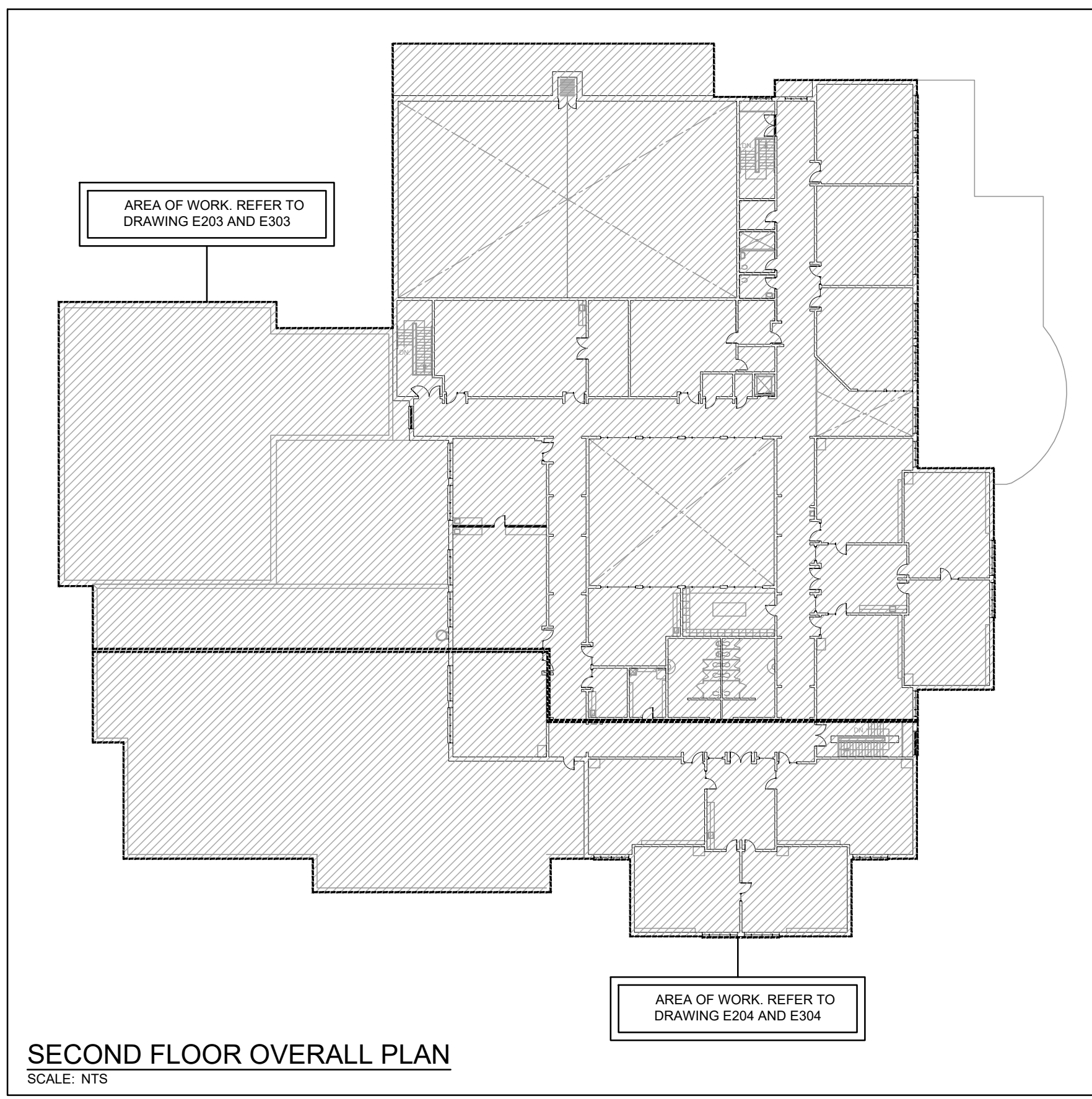


FIRST FLOOR OVERALL PLAN
SCALE: NTS

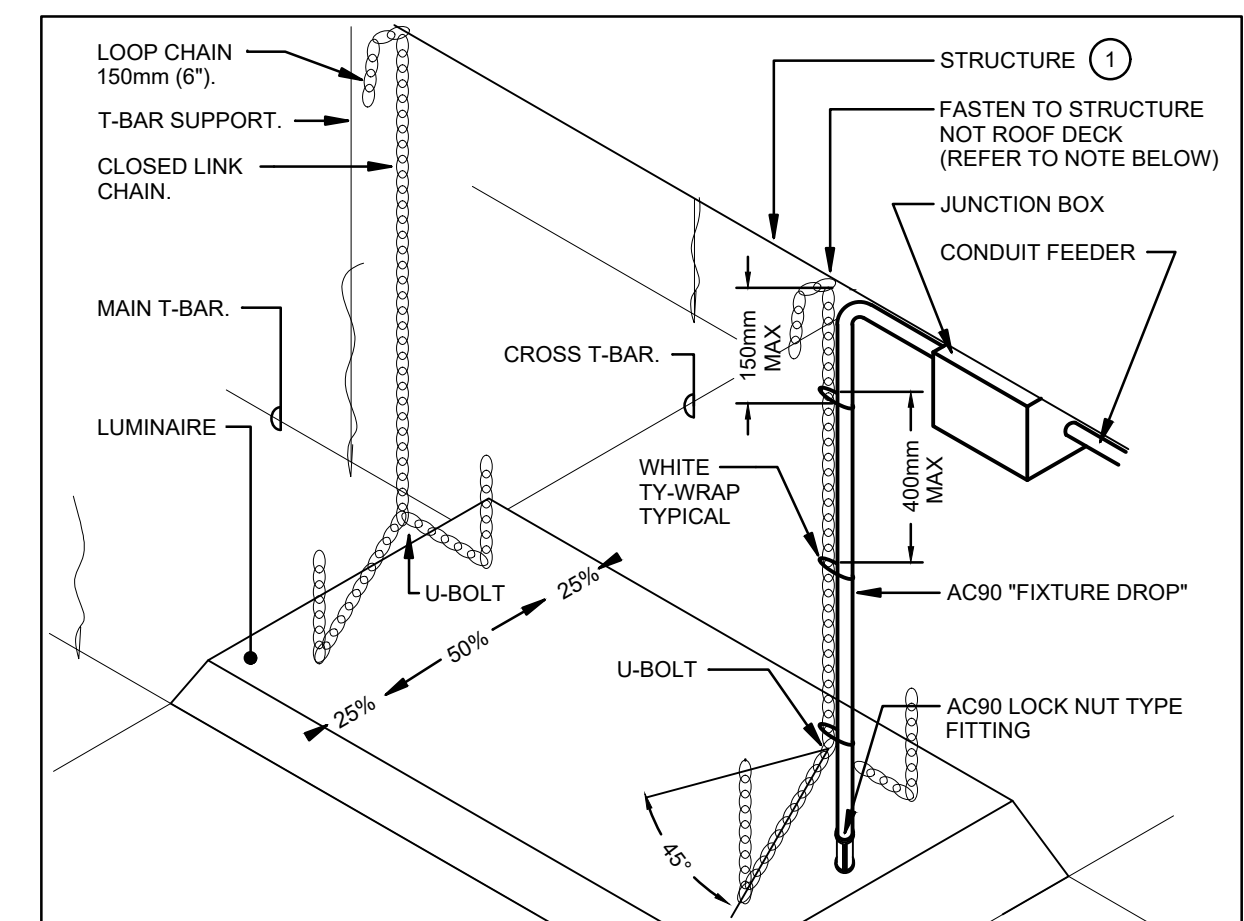


SECOND FLOOR OVERALL PLAN
SCALE: NTS

LIGHT FIXTURE SCHEDULE

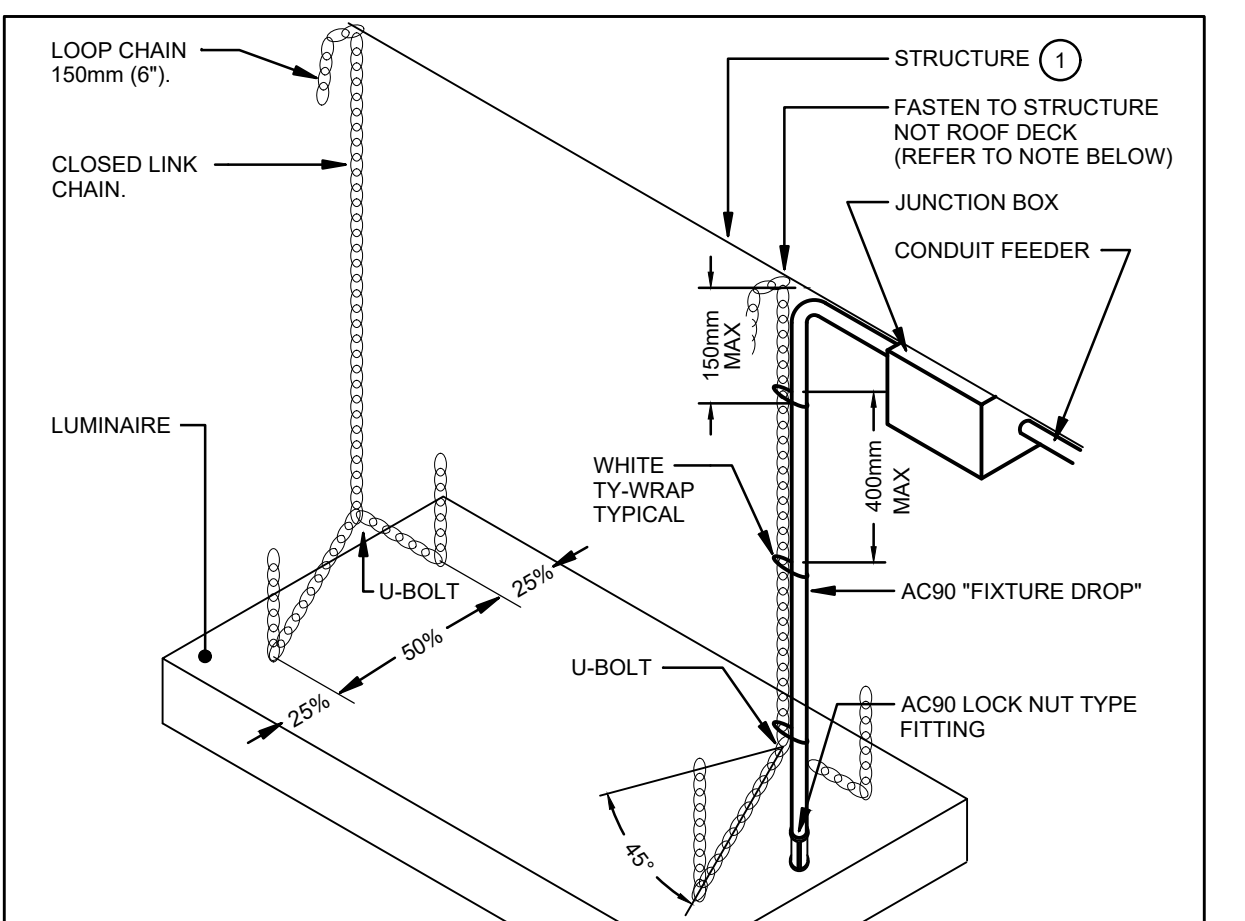
Type	Manufacturer/Catalog Number	Voltage	Lamp				Driver/Dimming Protocol	Mounting	Listings	Description
			Type	Lumens	Colour Temp	Wattage				
A	LITHONIA CAT. #CSS L48 AL03 UVOLT SWW3 80CRI C/W WGCSS COOPER CAT. #4SNX LW 347V CC83 CD1 C/W WG-SNX/SN-4FT-B SIGNIFY CAT. #SDS 4 2550L CST UN3 DIM C/W SDS8-WG	347V	LED	4000	4000K	29	80	N/A	SUSPENDED	DLC ENERGY STAR 4' (1220mm) SUSPENDED LED STRIP LIGHT C/W SELECTABLE LUMENS, SWITCHABLE WHITE, DIFFUSER ACRYLIC LENS, CHAIN SUSPENSION KIT, 10% 0-10V DIMMING DRIVER, AND WIRE GUARD. SET FIXTURE TO "MED"
A1	LITHONIA CAT. #CSS L86 AL03 UVOLT SWW3 80CRI C/W WGCSS COOPER CAT. #8T8X LW 347V CC83 CD1 C/W WG-SNX/SN-4FT-B SIGNIFY CAT. #SDS 8 4998L CST UN3 DIM C/W SDS8-WG	347V	LED	6000	4000K	43	80	N/A	SUSPENDED	DLC ENERGY STAR 8' (2440mm) SUSPENDED LED STRIP LIGHT C/W SELECTABLE LUMENS, SWITCHABLE WHITE, DIFFUSER ACRYLIC LENS, CHAIN SUSPENSION KIT, 10% 0-10V DIMMING DRIVER, AND WIRE GUARD. SET FIXTURE TO "LOW"
A2	LITHONIA CAT. #CSS L48 AL03 UVOLT SWW3 80CRI COOPER CAT. #4SNX LW 347V CC83 CD1 C/W WG-SNX/SN-4FT-B SIGNIFY CAT. #SDS 4 2550L CST UN3 DIM	347V	LED	3000	4000K	22	80	N/A	SURFACE	DLC ENERGY STAR 4' (1220mm) SURFACE LED STRIP LIGHT C/W SELECTABLE LUMENS, SWITCHABLE WHITE, DIFFUSER ACRYLIC LENS, 10% 0-10V DIMMING DRIVER. SET FIXTURE TO "LOW"
B	LITHONIA CAT. #CPX-1X4-AL07-80CRI-SWW7-SWL-347V COOPER CAT. #14CGTS-NUV SIGNIFY CAT. #1SBP2440L8CSP-4-347V-DIM	347V	LED	2450	4000K	18.4	80	N/A	RECESSED	DLC ENERGY STAR 1'x4' LED DIRECT LIT FLAT PANEL C/W SELECTABLE LUMENS AND SWITCHABLE WHITE, METAL FRAME WITH SATIN LENS. SET FIXTURE TO "LOW"
B1	LITHONIA CAT. #CPX-1X4-AL07-80CRI-SWW7-SWL-347V-1X4SMKSH COOPER CAT. #14CGTS-NUV-CGTSURF14 SIGNIFY CAT. #1SBP2440L8CSP-4-347V-DIM-FSK14	347V	LED	2450	4000K	18.4	80	N/A	SURFACE	DLC ENERGY STAR 1'x4' LED DIRECT LIT FLAT PANEL C/W SELECTABLE LUMENS AND SWITCHABLE WHITE, METAL FRAME WITH SATIN LENS AND SURFACE MOUNTED KIT. SET FIXTURE TO "LOW"
C	LITHONIA CAT. #CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT COOPER CAT. #14CGTS-NUV SIGNIFY CAT. #2SBP4060L8CSP-4-UN3-DIM	347V	LED	3572	4000K	24.9	80	N/A	RECESSED	DLC ENERGY STAR 2'x4' LED DIRECT LIT FLAT PANEL C/W SELECTABLE LUMENS AND SWITCHABLE WHITE, METAL FRAME WITH SATIN LENS. SET FIXTURE TO "LOW"
E	LITHONIA CAT. #BLWP4 40L 347V ADM GZ1 LP840 COOPER CAT. #NWS3C3-NUV SIGNIFY CAT. # FL P 4 40L 840 R 347 DIM	347V	LED	4000	4000K	35	80	N/A	WALL / SURFACE	DLC ENERGY STAR 4' (1220mm) LONG LED CUBE LUMINAIRE C/W FROSTED ACRYLIC LENS, AND WHITE FINISH. REFER TO DRAWING - SOME LOCATIONS ARE MOUNTED END TO END.
F	COOPER CAT. #24CZ2-40-347-1840-CD1-U LITHONIA CAT. #2BLT4 40L ADM MVOLT GZ1 LP840 SIGNIFY CAT. #2EVG40L840-4-DS-UNV-DIM	347V	LED	4000	4000K	30	80	N/A	RECESSED	DLC ENERGY STAR 2'x4' (610mmx1220mm) VOLUMETRIC LED TROFFER C/W SMOOTH FROSTED ACRYLIC CENTRE LENS, 1% 0-10V DIMMING DRIVER, AND WHITE FINISH.
G	ERALUX CAT. #AE-DL-ATE-CA 8-21-32WT-010-P30/35/40/50 STANPRO CAT. # CDUBR-G2-PS3Q/3CWH	347V	LED	2000	4000K	21	80	N/A	RECESSED	DLC ENERGY STAR 8'LED RETROFIT DOWNLIGHT
H	3G LIGHTING CAT. #3G-4PLI-D-0550-880-40K-347V-DIM-FL-XX-120-S8 MARK CAT. #S4PD LLP 8FT MSL8 80CRI 40K 600LMF MINI SCT 347V XXX ZT F2/72A RDCY XXXCY XCRD DPL AXIS CAT. #BT4DLED-550-80-40-SO-S8-X-347V-DP-1-CTS(48)	347V	LED	600FT	4000K	37.4	80	N/A	SUSPENDED	DLC ENERGY STAR 8' (2440mm) LONG X 4" (102mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W AIRCRAFT CABLE SUSPENSION (CHORD LENGTH TBD ON SITE), STRUCTURE MOUNTING, BATWING DISTRIBUTION, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.
H1	3G LIGHTING CAT. #3G-4PLI-D-0550-880-40K-347V-DIM-FL-XX-60-S12 MARK CAT. #S4PD LLP 12FT MSL8 80CRI 40K 600LMF MINI SCT 347V XXX ZT F2/72A RDCY XXXCY XCRD DPL AXIS CAT. #BT4DLED-600-80-40-SO-S12-X-347V-DP-1-CTS(48)	347V	LED	600FT	4000K	56.16	80	N/A	SUSPENDED	DLC ENERGY STAR 12' (3650mm) LONG X 4" (102mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W AIRCRAFT CABLE SUSPENSION (CHORD LENGTH TBD ON SITE), STRUCTURE MOUNTING, BATWING DISTRIBUTION, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.
H2	3G LIGHTING CAT. #3G-4PLI-D-0550-880-40K-347V-DIM-FL-XX-60-S4 MARK CAT. #S4PD LLP 4FT MSL4 80CRI 40K 600LMF MINI SCT 347V XXX ZT F2/72A RDCY XXXCY XCRD DPL AXIS CAT. #BT4DLED-600-80-40-SO-S4-X-347V-DP-1-CTS(48)	347V	LED	600FT	4000K	18.7	80	N/A	SUSPENDED	DLC ENERGY STAR 4' (1220mm) LONG X 4" (102mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W AIRCRAFT CABLE SUSPENSION (CHORD LENGTH TBD ON SITE), STRUCTURE MOUNTING, BATWING DISTRIBUTION, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.
H3	3G LIGHTING CAT. #3G-4PLI-D-0550-880-40K-347V-DIM-FL-XX-60-S16 MARK CAT. #S4PD LLP 16FT MSL8 80CRI 40K 600LMF MINI SCT 347V XXX ZT F2/72A RDCY XXXCY XCRD DPL AXIS CAT. #BT4DLED-600-80-40-SO-S16-XX-347V-DP-1-CTS(48)	347V	LED	600FT	4000K	74.88	80	N/A	SUSPENDED	DLC ENERGY STAR 16' (1220mm) LONG X 4" (102mm) WIDE DIRECT SUSPENDED LUMINAIRE C/W AIRCRAFT CABLE SUSPENSION (CHORD LENGTH TBD ON SITE), STRUCTURE MOUNTING, BATWING DISTRIBUTION, EXTRUDED ALUMINUM HOUSING, 1% 0-10V DIMMING DRIVER, AND SATIN WHITE FLUSH DIFFUSER. STANDARD FINISH TO BE SELECTED BY ARCHITECT.
J	GOTHAM CAT. #EVORCC 40/25 AR LSS MD 347GZ1 JBX C120 XX CALCULITE CAT. # C6 P DL 25 840 M 210 3 CL X - CA CK 10 XX	347V	LED	2500	4000K	25	80	N/A	SUSPENDED	DLC ENERGY STAR 6" ROUND CYLINDER PENDANT FIXTURE. STANDARD FINISH TO BE SELECTED BY ARCHITECT.

Notes:
 1. LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
 2. TENDER PRICE TO INCLUDE ONLY APPROVED MANUFACTURERS LISTED ON SCHEDULE. EQUAL MANUFACTURERS ARE NOT BEING CONSIDERED FOR THIS TENDER UNLESS SPECIFICALLY IDENTIFIED ON SCHEDULE FOR NOTED FIXTURE TYPES. FOR NOTED APPROVED EQUALS TO BE CONSIDERED APPROVED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED EQUAL BY EMAIL WITH CONSULTANTS OFFICE PRIOR TO PROJECT ADDENDUM PERIOD CLOSE.
 3. WHERE NOTED ABOVE THAT FIXTURES ARE TO HAVE FINISH TO SUIT ARCHITECT THE FINISH WILL BE SELECTED FROM MANUFACTURER'S AVAILABLE STANDARD FINISHES.
 4. ALL FIXTURES OPERATING ON 347 VOLTS MUST BE PROVIDED WITH AN INTEGRAL DISCONNECTING MEANS CONFORMING TO RULE 430-308(4) OF THE ELECTRICAL SAFETY CODE.
 5. IT IS THE RESPONSIBILITY OF THIS ELECTRICAL CONTRACTOR TO IDENTIFY TO THE ELECTRICAL CONSULTANT'S ATTENTION ANY DISCREPANCIES BETWEEN THE FIXTURE CATALOG NUMBER AND FIXTURE DESCRIPTION, AND OR VOLTAGE, OUTPUT, OR MOUNTING. PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT THE TIME OF SHOP DRAWING REVIEW. FOR THE PURPOSES OF BIDDING, INCLUDE FOR A FIXTURE MATCHING THE VOLTAGE, MOUNTING, LOCATION AND NOTATIONS SHOWN ON LIGHTING DESIGN DRAWINGS.



NOTES:
 1. IF STRUCTURE DOES NOT EXIST IMMEDIATELY ABOVE FIXTURE, PROVIDE UNISTRUT CHANNEL SPANNING ACROSS STRUCTURE FOR FIXTURE SUSPENSION.

A-LUMINAIRE SUSPENSION DETAIL
SCALE: NTS



NOTES:
 1. IF STRUCTURE DOES NOT EXIST IMMEDIATELY ABOVE FIXTURE, PROVIDE UNISTRUT CHANNEL SPANNING ACROSS STRUCTURE FOR FIXTURE SUSPENSION.

B-LUMINAIRE SUSPENSION DETAIL
SCALE: NTS

ELECTRICAL SYMBOLS NOTE: ALL SYMBOLS MAY NOT BE USED

LIGHTING		POWER	
	LIGHT FIXTURE TYPE AS INDICATED		PANEL AS INDICATED
GENERAL			
	SINGLE POLE SWITCH (3-3 WAY, 4-4 WAY, PULL-OUT LIGHT, K-KEYED, DM-DIMMER, M-MOTOR RATED)	ER	INDICATED EXISTING ITEM TO REMAIN
	OCCUPANCY SENSOR	D	INDICATES EXISTING ITEM TO BE DELETED
	CEILING MOUNTED MOTION SENSOR	R	INDICATES EXISTING ITEM TO BE RELOCATED IN RELOCATED POSITION
	ANALOG POWER PACK	WG	WIREGUARD
	WALL MOUNTED OCCUPANCY SENSOR	CLG	CEILING MOUNTED
	DIGITAL RELAY	(X)	NOTE INDICATOR
	DIGITAL WALL STATION, 'X' DENOTES NUMBER OF CONTROL BUTTONS IN SINGLE GANG BOX	(X)	LIGHTING CONTROL SEQUENCE #
	DIGITAL CEILING MOUNTED OCCUPANCY SENSOR		
STANDARD CIRCUIT LABELING			

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ISSUANCES

No	DATE YY MM DD	DESCRIPTION	BY
1	2026.02.13	ISSUED FOR REVIEW	RV
A	26.03.26	ISSUED FOR TENDER	RV



Professional Engineer
 License No. 100011324
 3/26/26
 PROVINCE OF ONTARIO

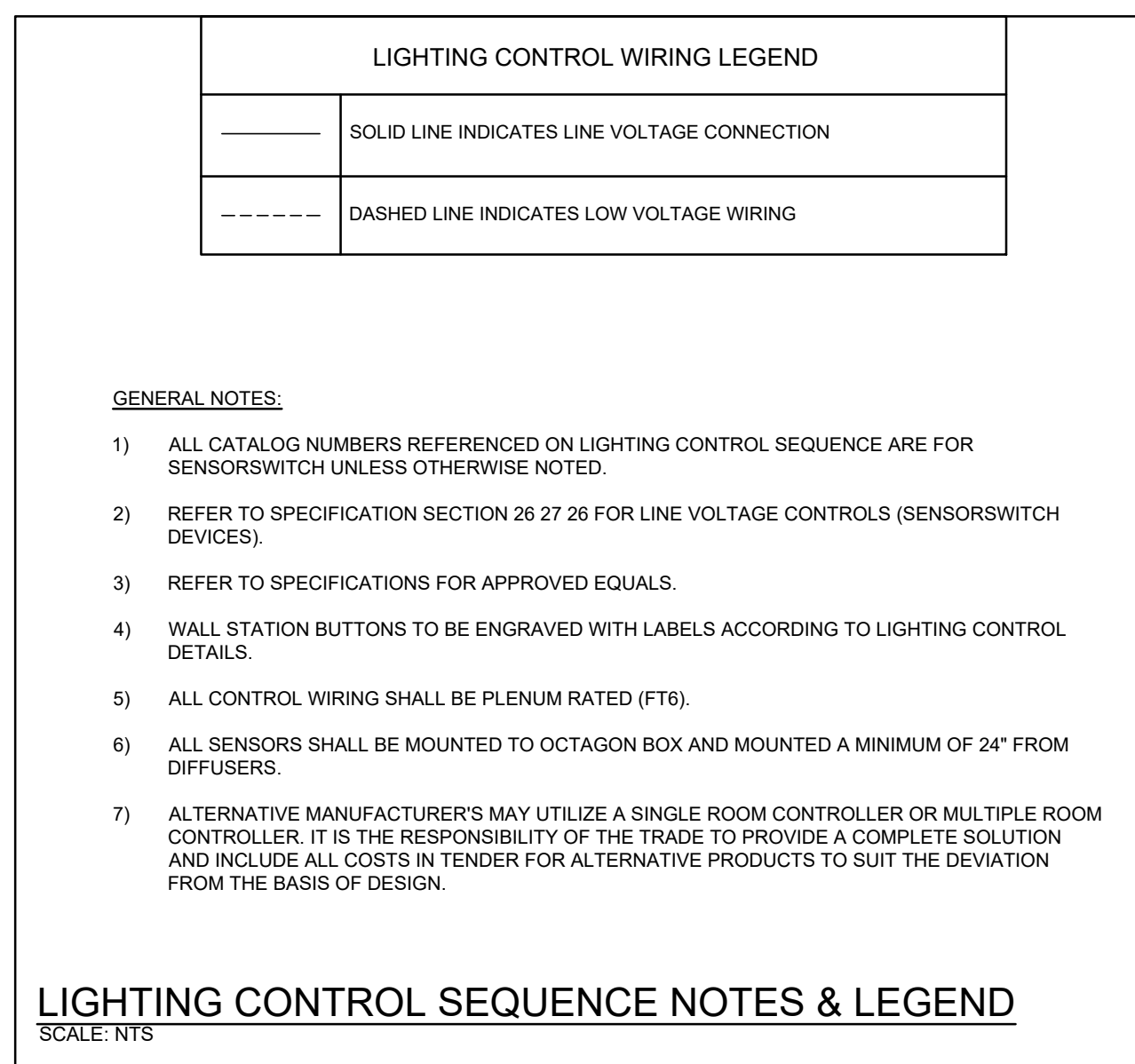
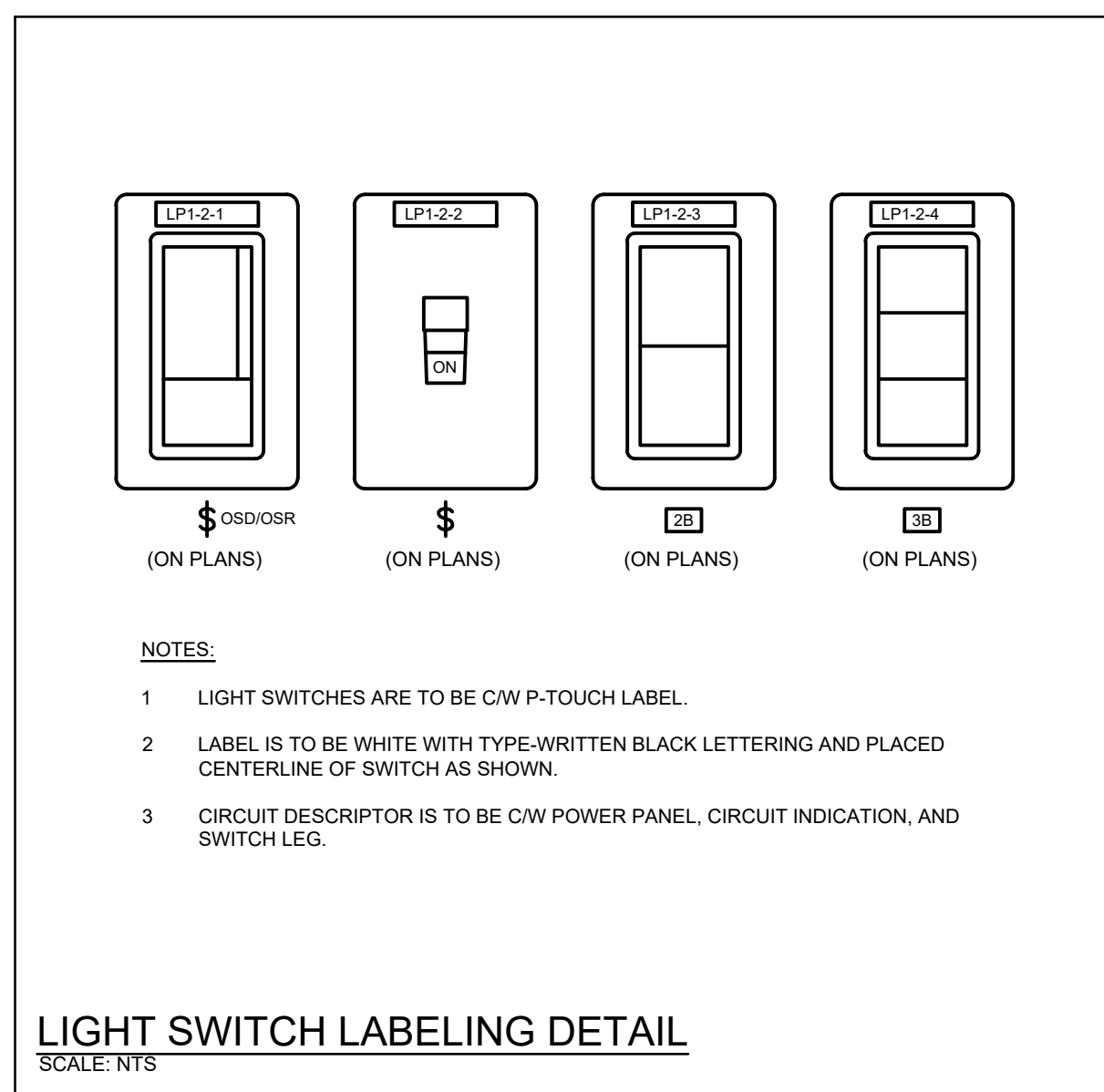
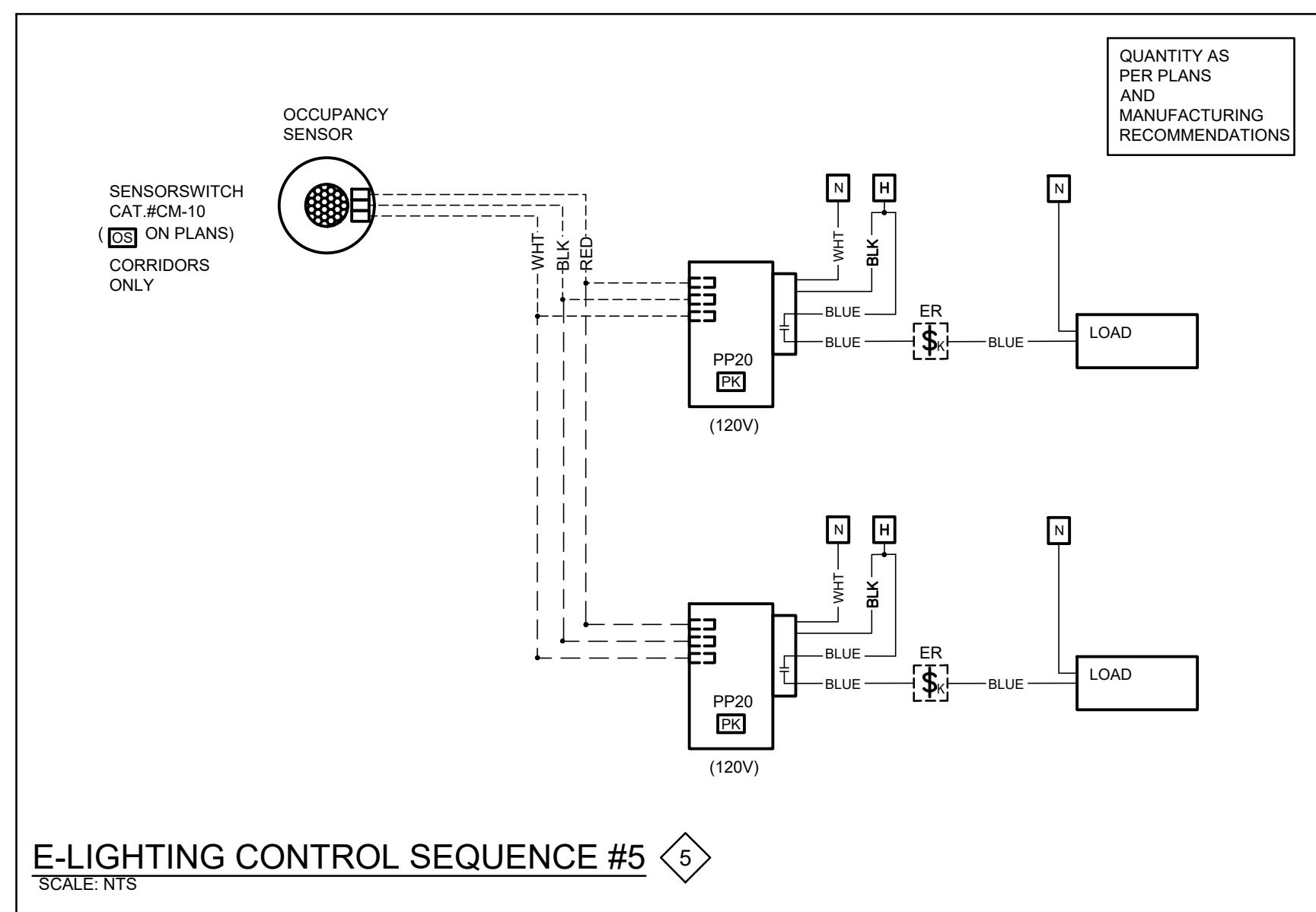
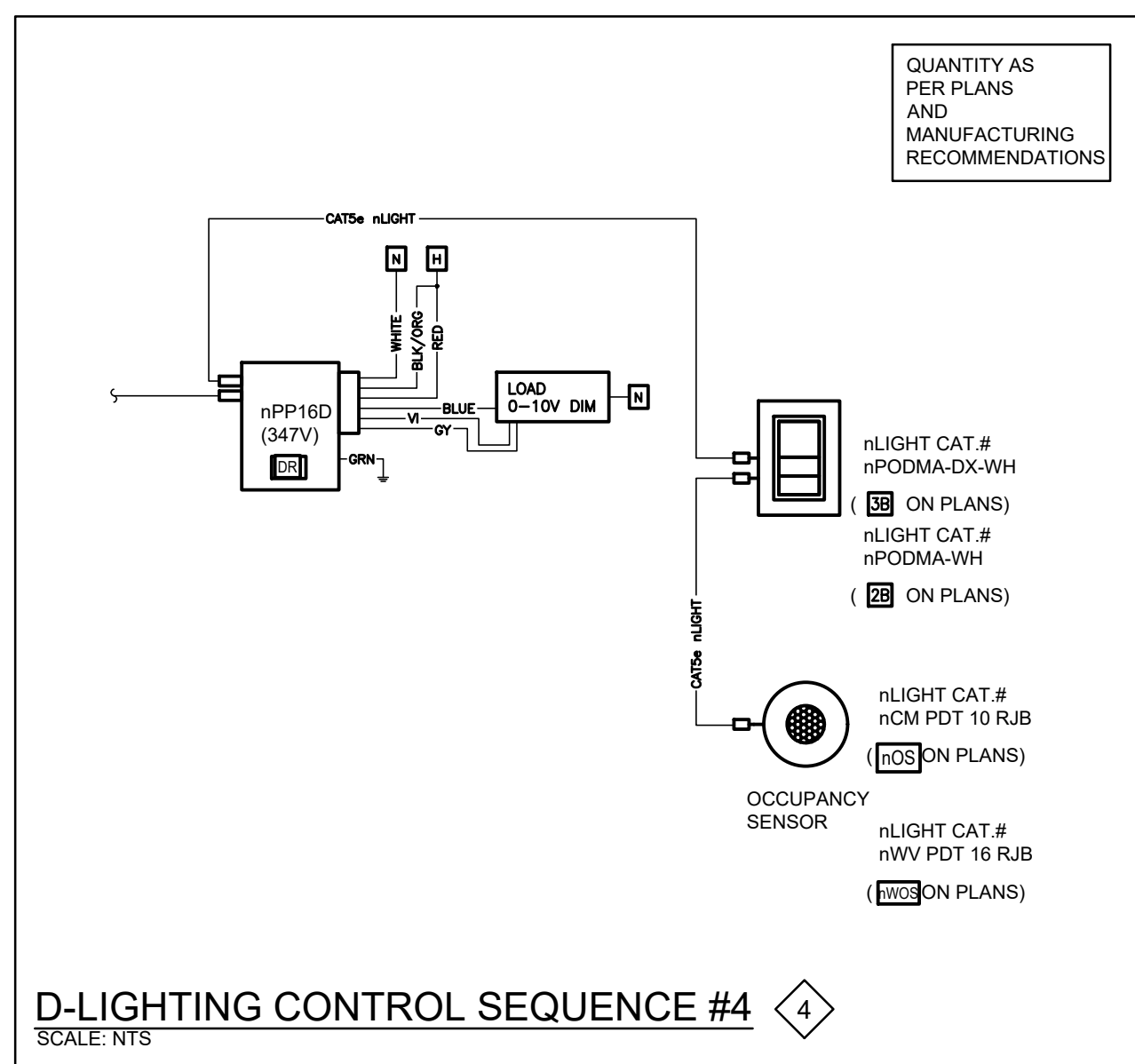
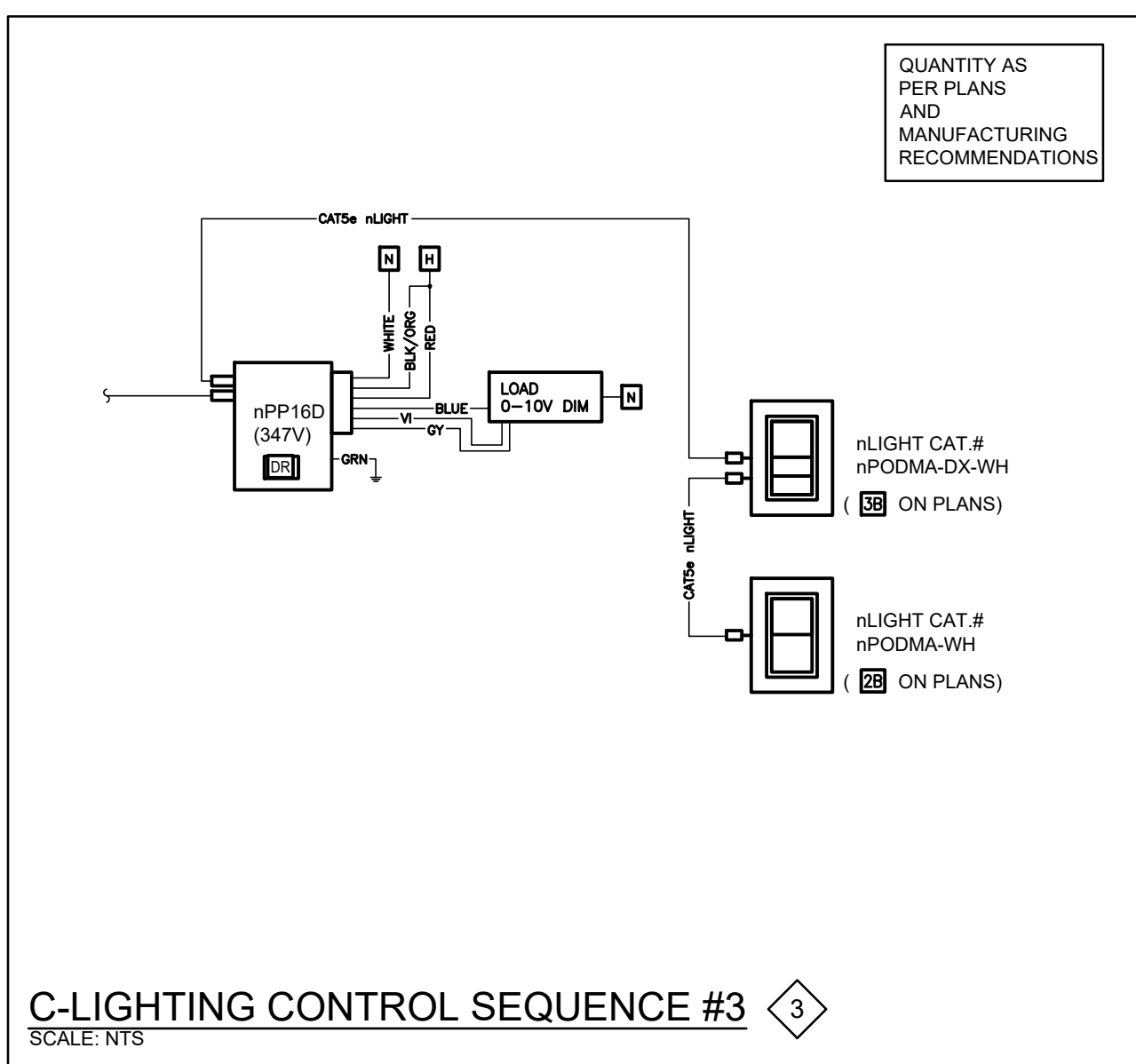
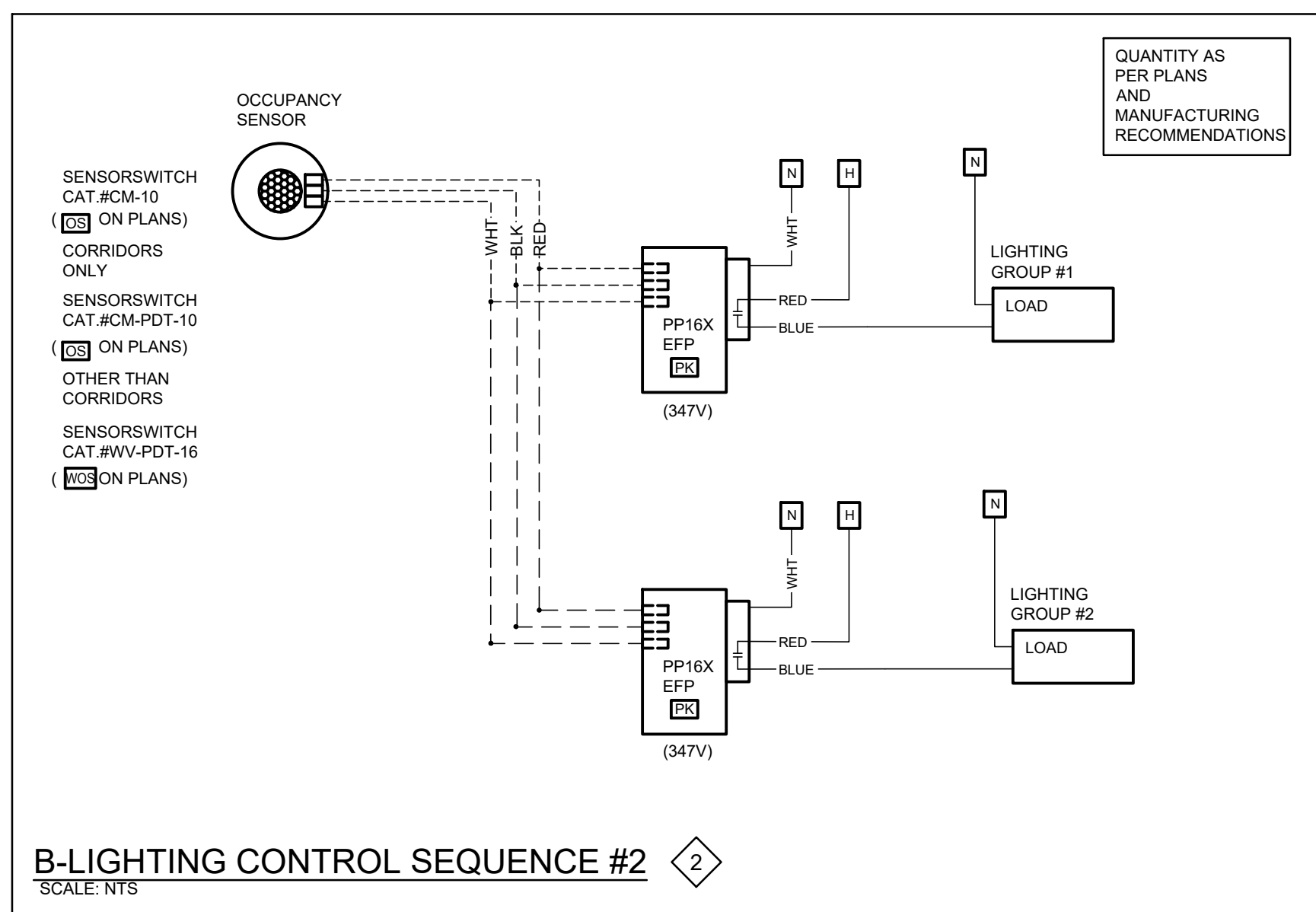
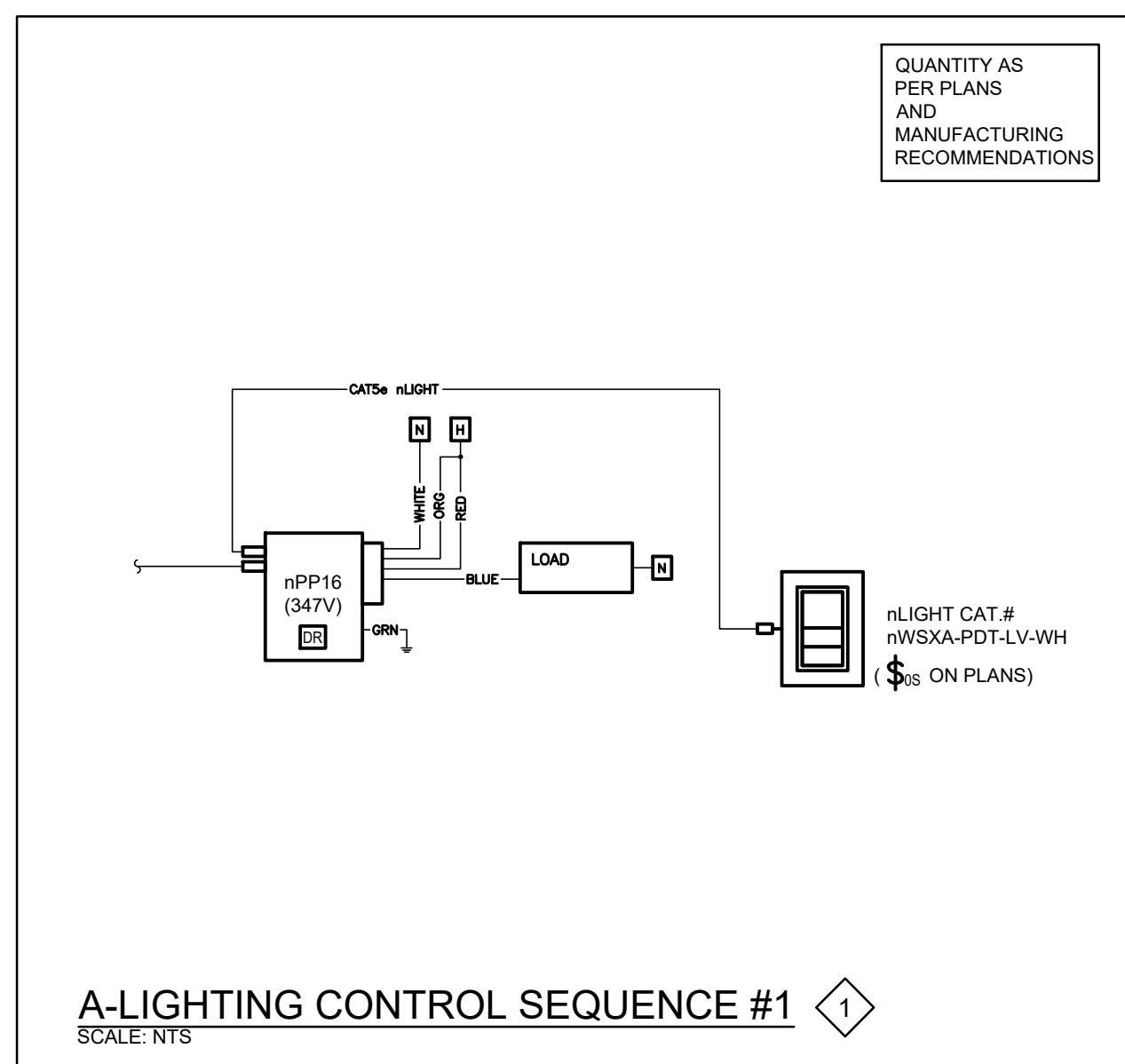
Project North

**WRDSB EDNA STAEBLER PS
 INTERIOR LIGHTING
 UPGRADES**
 450 BERNAY DR. WATERLOO ON N2T 3A3
 Sheet Title
**OVERALL PLAN, LEGEND,
 SCHEDULE AND DETAILS**

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Drawn by HZ	Checked by RV	Approved by RV
Scale AS NOTED	Project Date OCT 2025	Print Date

Project No. 25355
 Drawing No. **E101**



LIGHT FIXTURE SCHEDULE (INTERIOR LAMPS)					
Item	Description	Mounting	Lamping	Retrofit Work	Retrofit Type
AA	4' STRIP C/W WIREGUARD	SURFACE	2-32W T8	REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMBSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED.	2-T8
BB	1X4 TROFFER AND 4FT WALL WRAP	RECESSED	2-32W T8	REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMBSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED.	2-T8
CC	2X4 TROFFER	RECESSED	3-32W T8	REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMBSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED.	3-T8
CC1	2X4 TROFFER	RECESSED	2-32W T8	REMOVE EXISTING LAMPS AND BALLASTS. REWORK EXISTING WIRING TO SUIT 120VAC TO TOMBSTONE. PROVIDE TYPE 'B' T8 LED RETROFIT AS SPECIFIED.	2-T8

Notes:

- LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
- EQUAL MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE BY EMAIL WITH CONSULTANTS OFFICE A MINIMUM OF 10 DAYS PRIOR TO TENDER CLOSE.
- IF THERE ARE ANY DISCREPANCIES BETWEEN THE FIXTURE PART NUMBER AND DESCRIPTION, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING THESE TO THE ELECTRICAL CONSULTANT'S ATTENTION PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT TIME OF SHOP DRAWING REVIEW.

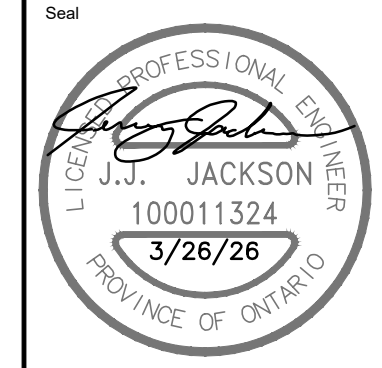
LIGHT FIXTURE SCHEDULE (INTERIOR LAMPS)										
Item	Manufacturer/Catalog Number	Voltage	Lamp					Mounting	Listings	Description
			Type	Lumens	Colour Temperature	Wattage	CRI			
T8	TUROLIGHT CAT. #WV-T8BPS4/10 SW/40F/DE EARTHTRONICS MODEL CAT. #LT814840B06CT EIKO MODEL CAT. #09735 LED14WT8/P/48/840-G8D GE CURRENT CAT. #LED13BDT8/G4/840XL/CGV XTC LIGHTING CAT. #T8-48T-14W-XY-DE	120V	1-T8	1700	4000K	10.5W	80	EXISTING	N/A	1-T8 LED TYPE RETROFIT

Notes:

- LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR DELIVERED LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.
- EQUAL MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE BY EMAIL WITH CONSULTANTS OFFICE A MINIMUM OF 10 DAYS PRIOR TO TENDER CLOSE.
- IF THERE ARE ANY DISCREPANCIES BETWEEN THE FIXTURE PART NUMBER AND DESCRIPTION, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING THESE TO THE ELECTRICAL CONSULTANT'S ATTENTION PRIOR TO TENDER CLOSE. NO EXTRAS WILL BE ENTERTAINED FOR FAILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND DESCRIPTION WILL BE MARKED BY CONSULTANT AT TIME OF SHOP DRAWING REVIEW.

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ISSUANCES			
No	DATE YY MM DD	DESCRIPTION	BY
1	2026.02.13	ISSUED FOR REVIEW	RV
A	26.03.26	ISSUED FOR TENDER	RV



Project
WRDSB EDNA STAEBLER PS INTERIOR LIGHTING UPGRADES
450 BERNAY DR. WATERLOO ON N2T 3A3

Sheet Title
LIGHTING CONTROL DETAILS & SCHEDULES

DEI Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
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Drawn by HZ	Checked by RV	Approved by RV
Scale AS NOTED	Project Date OCT 2025	Print Date

Project No.
25355

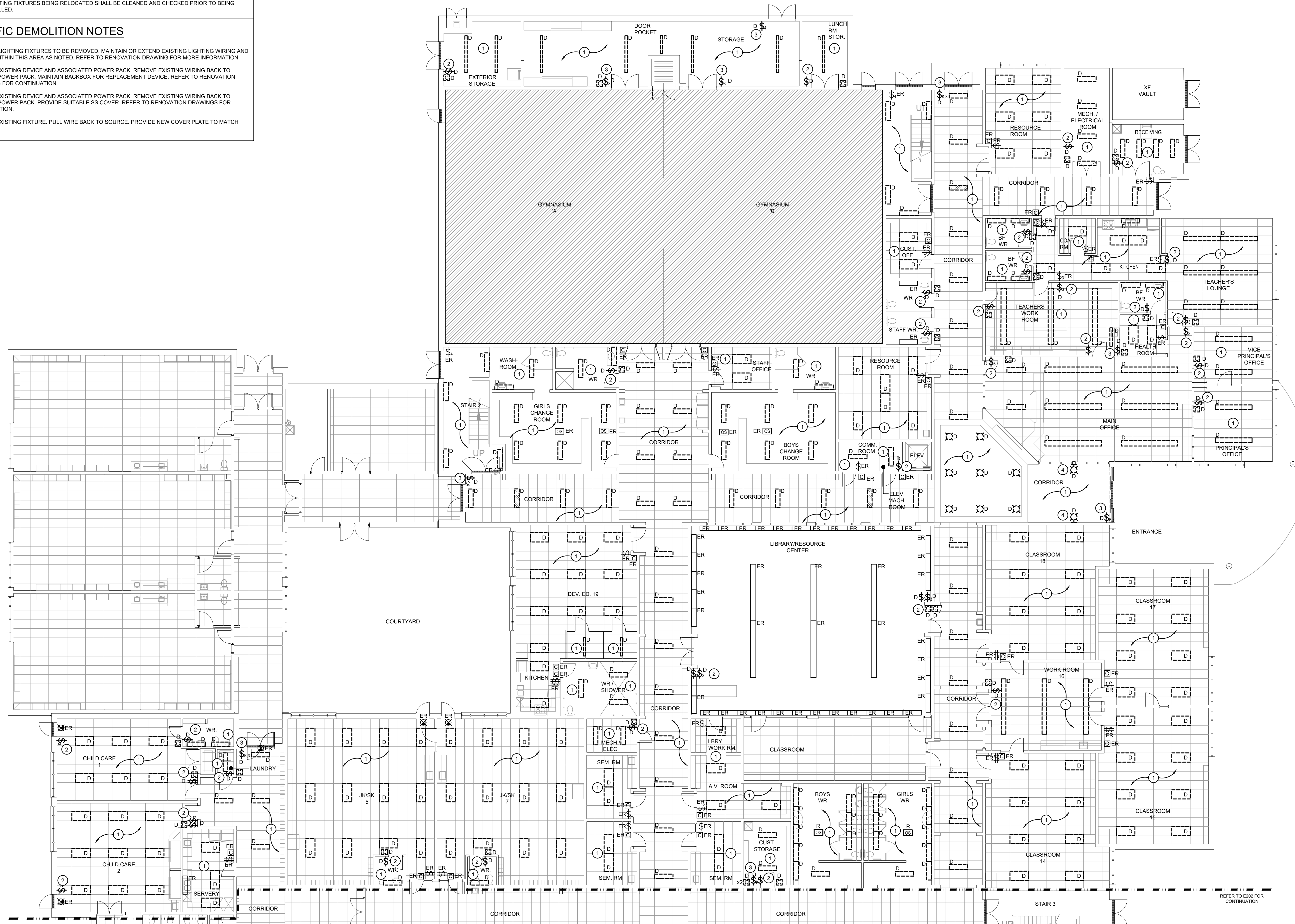
Drawing No.
E102

GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

SPECIFIC DEMOLITION NOTES

- 1 EXISTING LIGHTING FIXTURES TO BE REMOVED. MAINTAIN OR EXTEND EXISTING LIGHTING WIRING AND CIRCUIT WITHIN THIS AREA AS NOTED. REFER TO RENOVATION DRAWING FOR MORE INFORMATION.
- 2 REMOVE EXISTING DEVICE AND ASSOCIATED POWER PACK. REMOVE EXISTING WIRING BACK TO EXISTING POWER PACK. MAINTAIN BACKBOX FOR REPLACEMENT DEVICE. REFER TO RENOVATION DRAWINGS FOR CONTINUATION.
- 3 REMOVE EXISTING DEVICE AND ASSOCIATED POWER PACK. REMOVE EXISTING WIRING BACK TO EXISTING POWER PACK. PROVIDE SUITABLE SS COVER. REFER TO RENOVATION DRAWINGS FOR CONTINUATION.
- 4 REMOVE EXISTING FIXTURE. PULL WIRE BACK TO SOURCE. PROVIDE NEW COVER PLATE TO MATCH WALL.

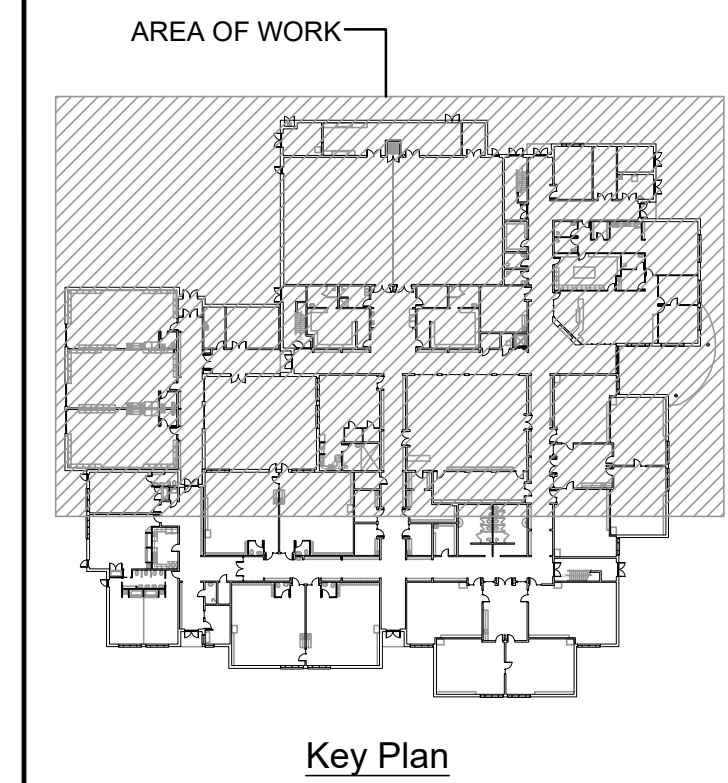


GROUND FLOOR - LIGHTING DEMOLITION PLAN PART 'A'
SCALE: 1/125

REFER TO E202 FOR CONTINUATION

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2026 DEI Consulting Engineers Inc.

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1	2026.02.13	ISSUED FOR REVIEW	RV
A	26.03.26	ISSUED FOR TENDER	RV



Seal: PROFESSIONAL ENGINEER
J. JACKSON
100011324
3/26/26
PROVINCE OF ONTARIO

North Project North

Project
**WRDSB EDNA STAEBLER PS
INTERIOR LIGHTING
UPGRADES**
450 BERNAY DR. WATERLOO ON N2T 3A3

Sheet Title
**GROUND FLOOR - LIGHTING
DEMOLITION PLAN PART 'A'**

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Drawn by HZ	Checked by RV	Approved by RV
Scale AS NOTED	Project Date OCT 2025	Print Date

Project No. 25355
Drawing No. E201

GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

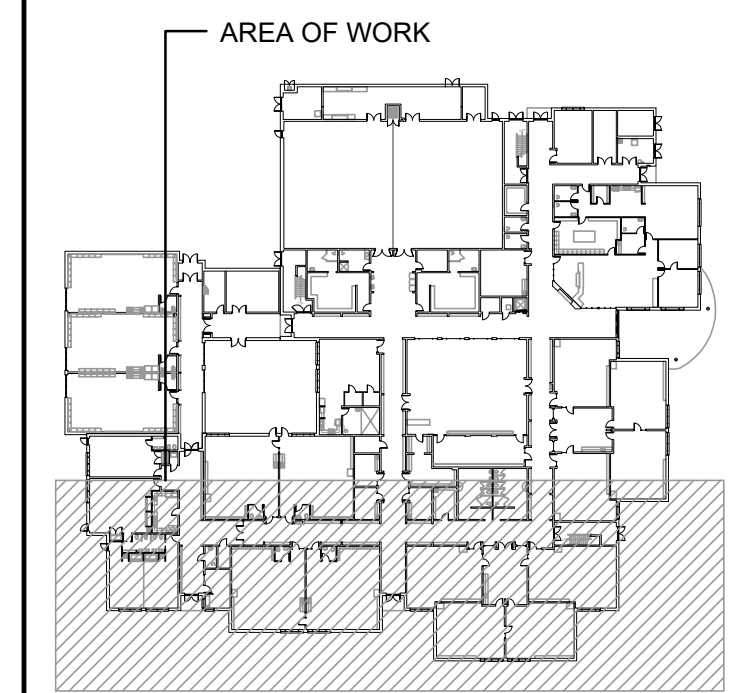
SPECIFIC DEMOLITION NOTES

- 1 EXISTING LIGHTING FIXTURES TO BE REMOVED. MAINTAIN OR EXTEND EXISTING LIGHTING WIRING AND CIRCUIT WITHIN THIS AREA AS NOTED. REFER TO RENOVATION DRAWING FOR MORE INFORMATION.
- 2 REMOVE EXISTING DEVICE AND ASSOCIATED POWER PACK. REMOVE EXISTING WIRING BACK TO EXISTING POWER PACK. MAINTAIN BACKBOX FOR REPLACEMENT DEVICE. REFER TO RENOVATION DRAWINGS FOR CONTINUATION.
- 3 REMOVE EXISTING DEVICE AND ASSOCIATED POWER PACK. REMOVE EXISTING WIRING BACK TO EXISTING POWER PACK. PROVIDE SUITABLE SS COVER. REFER TO RENOVATION DRAWINGS FOR CONTINUATION.

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 Do not scale this drawing.
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ISSUANCES

No	DATE YY MM DD	DESCRIPTION	BY
1	2026.02.13	ISSUED FOR REVIEW	RV
A	26.03.26	ISSUED FOR TENDER	RV



Key Plan



Seal	North	Project North

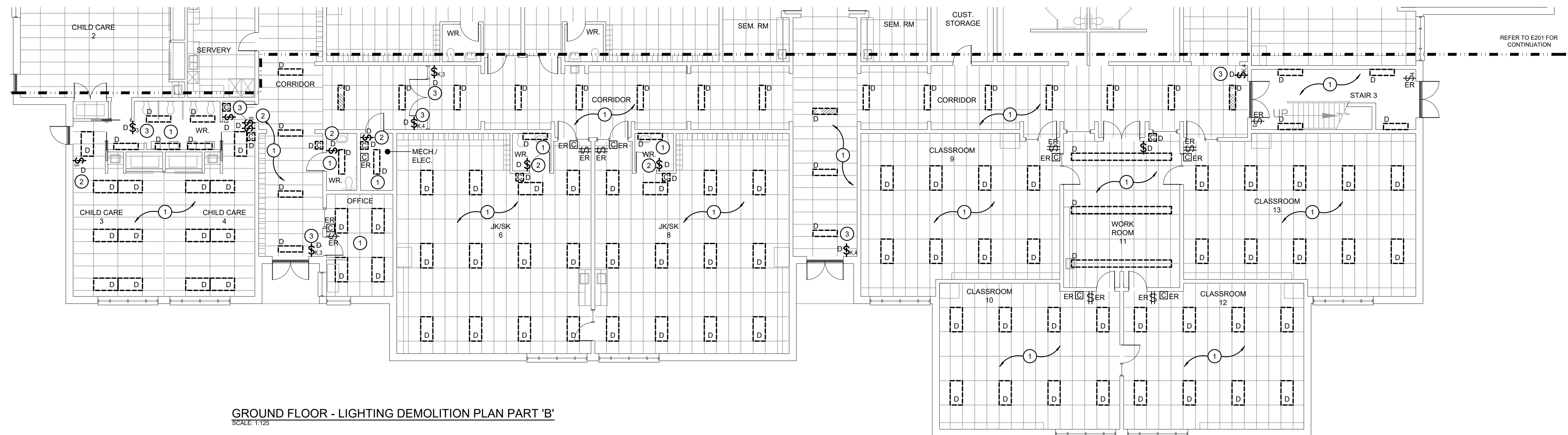
**WRDSB EDNA STAEBLER PS
 INTERIOR LIGHTING
 UPGRADES**
 450 BERNAY DR. WATERLOO ON N2T 3A3

Sheet Title
**GROUND FLOOR - LIGHTING
 DEMOLITION PLAN PART 'B'**

DEI
 Consulting Engineers
 MECHANICAL | ELECTRICAL | AQUATIC
 55 Northland Road, Waterloo, ON N2V 1Y8
 Phone: 519-725-3555
 Website: deiassociates.ca

Drawn by HZ	Checked by RV	Approved by RV
Scale AS NOTED	Project Date OCT 2025	Print Date

Project No. **25355** Drawing No. **E202**



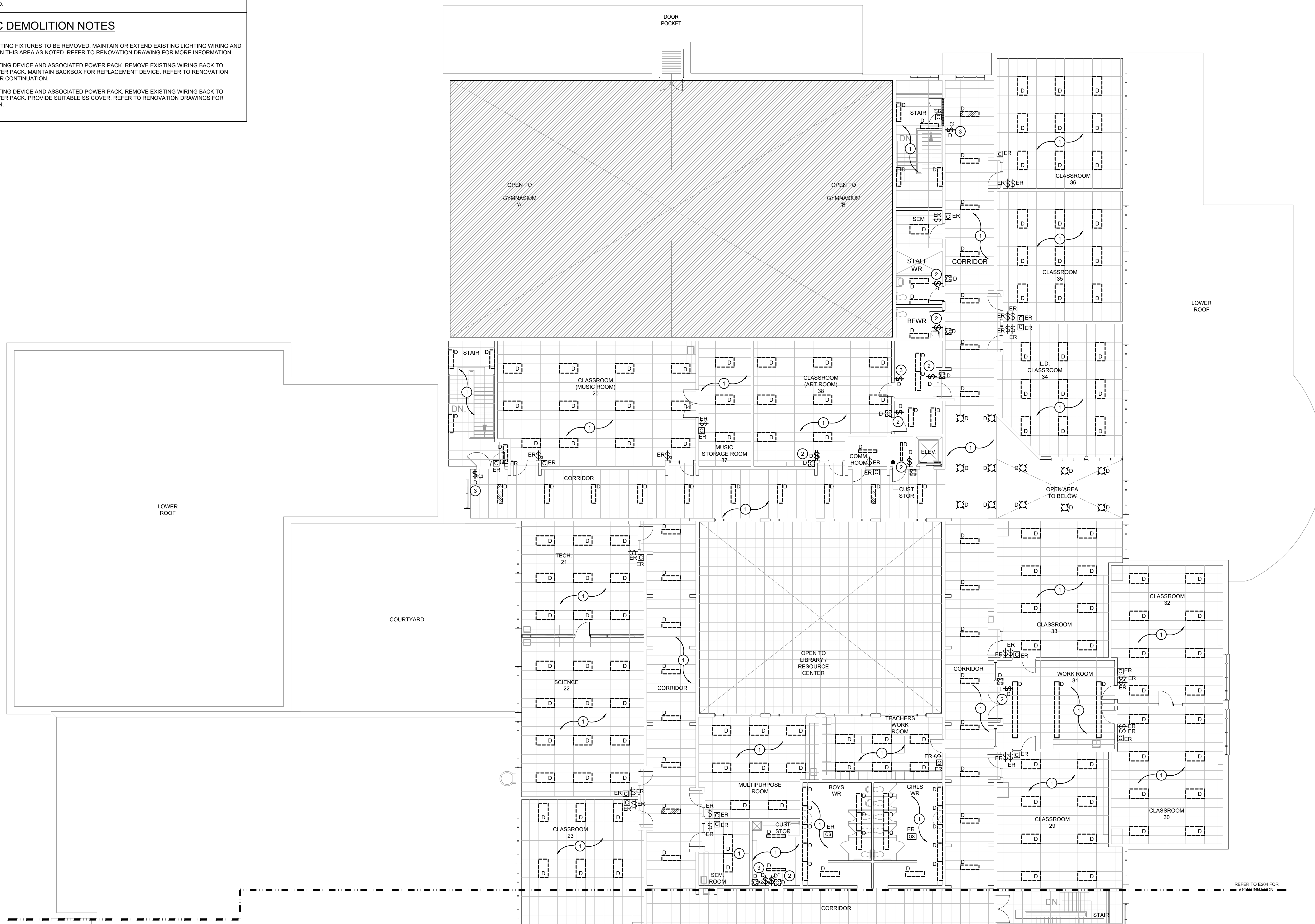
GROUND FLOOR - LIGHTING DEMOLITION PLAN PART 'B'
 SCALE: 1:125

GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

SPECIFIC DEMOLITION NOTES

- 1 EXISTING LIGHTING FIXTURES TO BE REMOVED. MAINTAIN OR EXTEND EXISTING LIGHTING WIRING AND CIRCUIT WITHIN THIS AREA AS NOTED. REFER TO RENOVATION DRAWING FOR MORE INFORMATION.
- 2 REMOVE EXISTING DEVICE AND ASSOCIATED POWER PACK. REMOVE EXISTING WIRING BACK TO EXISTING POWER PACK. MAINTAIN BACKBOX FOR REPLACEMENT DEVICE. REFER TO RENOVATION DRAWINGS FOR CONTINUATION.
- 3 REMOVE EXISTING DEVICE AND ASSOCIATED POWER PACK. REMOVE EXISTING WIRING BACK TO EXISTING POWER PACK. PROVIDE SUITABLE SS COVER. REFER TO RENOVATION DRAWINGS FOR CONTINUATION.



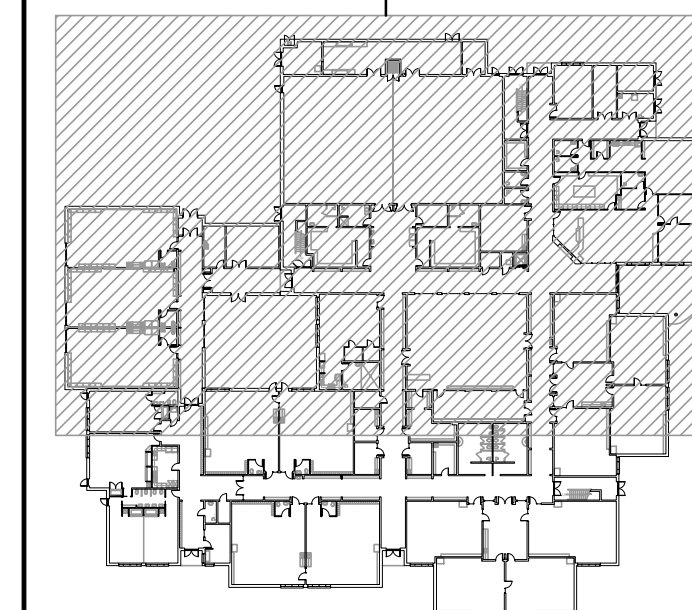
SCALE: 1/125
SECOND FLOOR - LIGHTING DEMOLITION PLAN PART 'A'

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
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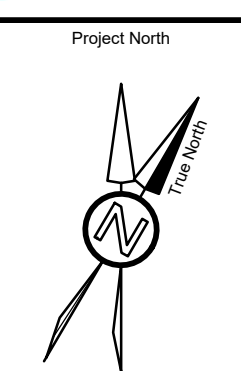
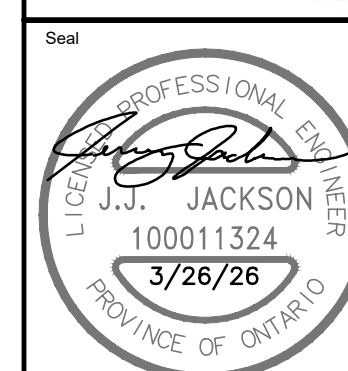
ISSUANCES

No	DATE YY MM DD	DESCRIPTION	BY
1	2026.02.13	ISSUED FOR REVIEW	RV
A	26.03.26	ISSUED FOR TENDER	RV

AREA OF WORK



Key Plan



**WRDSB EDNA STAEBLER PS
INTERIOR LIGHTING
UPGRADES**

450 BERNAY DR. WATERLOO ON N2T 3A3

**SECOND FLOOR - LIGHTING
DEMOLITION PLAN PART 'A'**

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Phone: 519-725-3555
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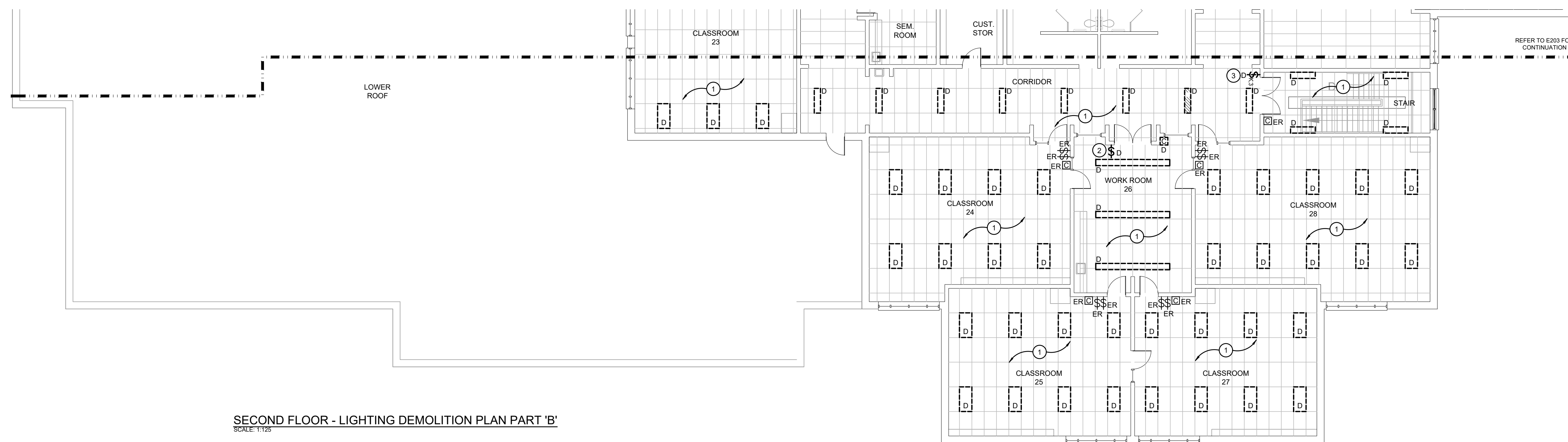
Project No. 25355	Drawing No. E203
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GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT, UNLESS OTHERWISE NOTED.
- 'D' INDICATES EXISTING ITEM TO BE DEMOLISHED, UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE.
- ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO BEING REINSTALLED.

SPECIFIC DEMOLITION NOTES

- 1 EXISTING LIGHTING FIXTURES TO BE REMOVED. MAINTAIN OR EXTEND EXISTING LIGHTING WIRING AND CIRCUIT WITHIN THIS AREA AS NOTED. REFER TO RENOVATION DRAWING FOR MORE INFORMATION.
- 2 REMOVE EXISTING DEVICE AND ASSOCIATED POWER PACK. REMOVE EXISTING WIRING BACK TO EXISTING POWER PACK. MAINTAIN BACKBOX FOR REPLACEMENT DEVICE. REFER TO RENOVATION DRAWINGS FOR CONTINUATION.
- 3 REMOVE EXISTING DEVICE AND ASSOCIATED POWER PACK. REMOVE EXISTING WIRING BACK TO EXISTING POWER PACK. PROVIDE SUITABLE SS COVER. REFER TO RENOVATION DRAWINGS FOR CONTINUATION.

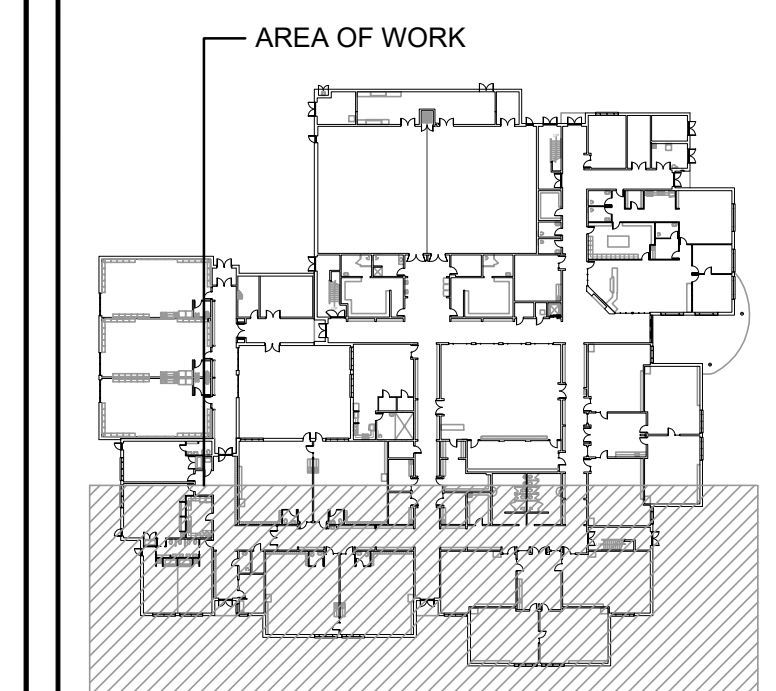


SECOND FLOOR - LIGHTING DEMOLITION PLAN PART 'B'
SCALE: 1/125

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
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Key Plan



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Project
**WRDSB EDNA STAEBLER PS
INTERIOR LIGHTING
UPGRADES**
450 BERNAY DR. WATERLOO ON N2T 3A3

Sheet Title
**SECOND FLOOR - LIGHTING
DEMOLITION PLAN PART 'B'**

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Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca

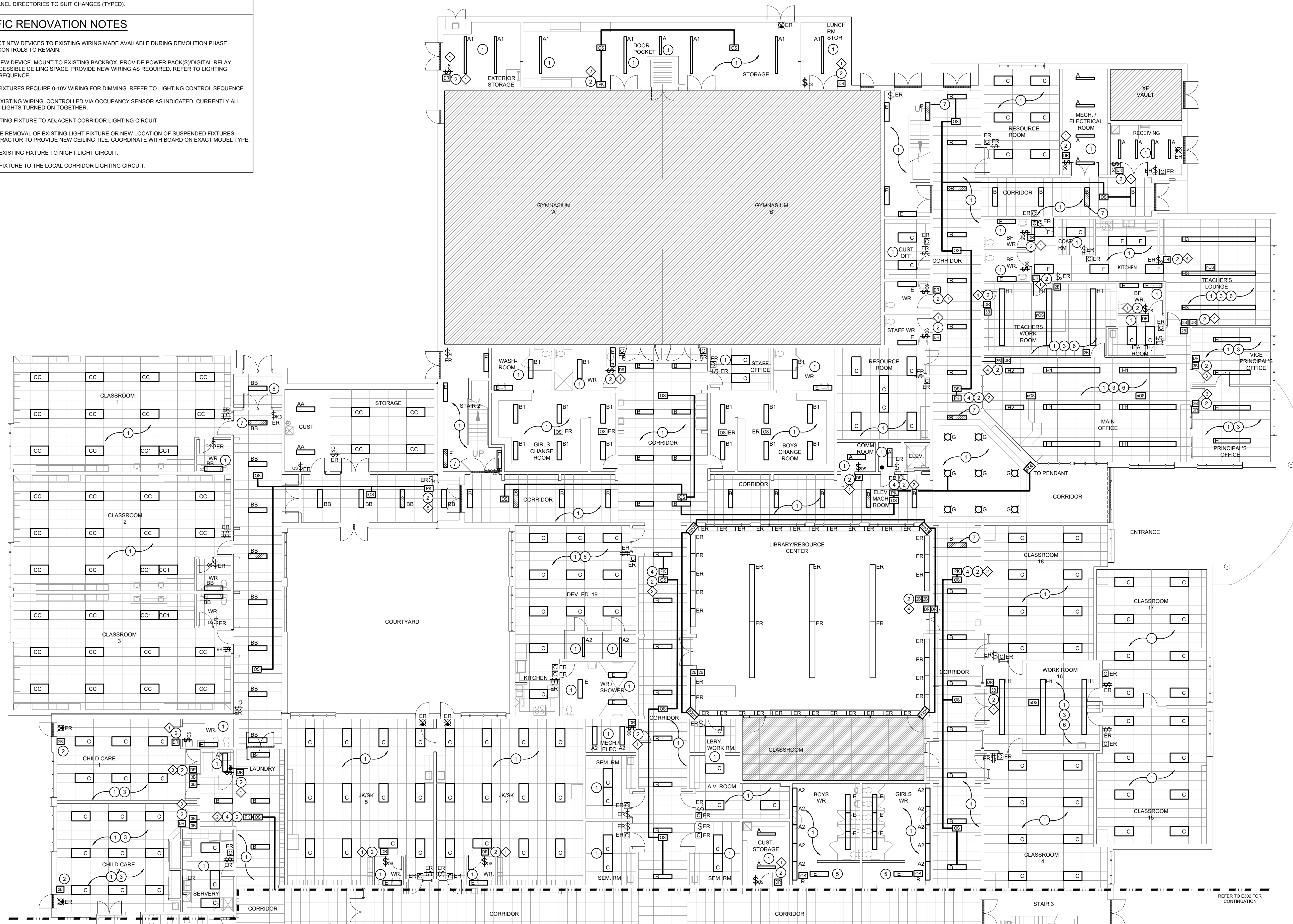
Drawn by HZ	Checked by RV	Approved by RV
Scale AS NOTED	Project Date OCT 2025	Print Date
Project No. 25355	Drawing No. E204	

GENERAL RENOVATION NOTES

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

- 1 RECONNECT NEW DEVICES TO EXISTING WIRING MADE AVAILABLE DURING DEMOLITION PHASE. EXISTING CONTROLS TO REMAIN.
- 2 PROVIDE NEW DEVICE. MOUNT TO EXISTING BACKBOX. PROVIDE POWER PACK(S) DIGITAL RELAY ABOVE ACCESSIBLE CEILING SPACE. PROVIDE NEW WIRING AS REQUIRED. REFER TO LIGHTING CONTROL SEQUENCE.
- 3 LIGHTING FIXTURES REQUIRE 0-10V WIRING FOR DIMMING. REFER TO LIGHTING CONTROL SEQUENCE.
- 4 REWORK EXISTING WIRING. CONTROLLED VIA OCCUPANCY SENSOR AS INDICATED. CURRENTLY ALL CORRIDOR LIGHTS TURNED ON TOGETHER.
- 5 WIRE LIGHTING FIXTURE TO ADJACENT CORRIDOR LIGHTING CIRCUIT.
- 6 DUE TO THE REMOVAL OF EXISTING LIGHT FIXTURE OR NEW LOCATION OF SUSPENDED FIXTURES. THIS CONTRACTOR TO PROVIDE NEW CEILING TILE. COORDINATE WITH BOARD ON EXACT MODEL TYPE.
- 7 CONVERT EXISTING FIXTURE TO NIGHT LIGHT CIRCUIT.
- 8 CONNECT FIXTURE TO THE LOCAL CORRIDOR LIGHTING CIRCUIT.



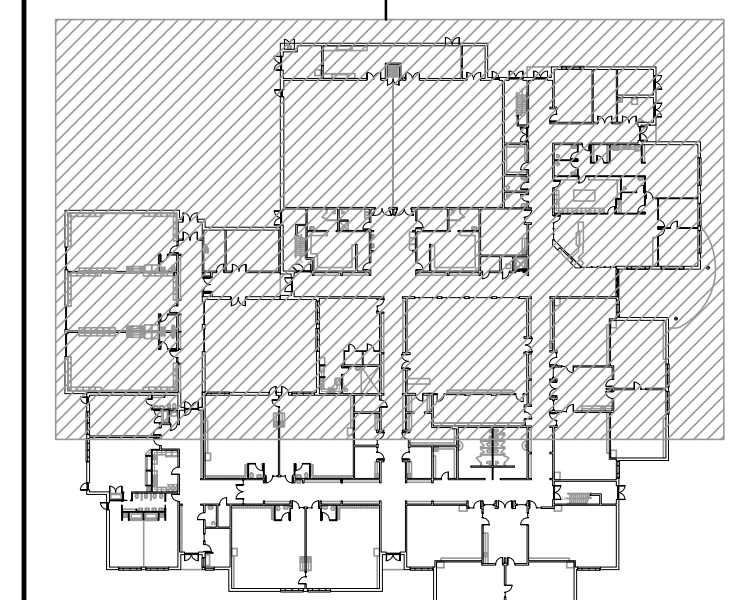
GROUND FLOOR - LIGHTING RENOVATION PLAN PART 'A'
SCALE: 1/125

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A	26.03.26	ISSUED FOR TENDER	RV

AREA OF WORK



Key Plan



Professional Engineer
 License No. 100011324
 U.S. JACKSON
 3/26/26
 PROVINCE OF ONTARIO

Project
**WRDSB EDNA STAEBLER PS
 INTERIOR LIGHTING
 UPGRADES**
 459 BERNAY DR. WATERLOO ON N2T 3A3

Sheet Title
**GROUND FLOOR - LIGHTING
 RENOVATION PLAN PART 'A'**

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Consulting Engineers
 MECHANICAL | ELECTRICAL | AQUATIC
 55 Northland Road, Waterloo, ON N2V 1Y8
 Phone: 519-725-3555
 Website: deiassociates.ca

Drawn by HZ	Checked by RV	Approved by RV
Scale AS NOTED	Project Date OCT 2025	Print Date

Project No. 25355
 Drawing No. E301

GENERAL RENOVATION NOTES

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
- ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED.
- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

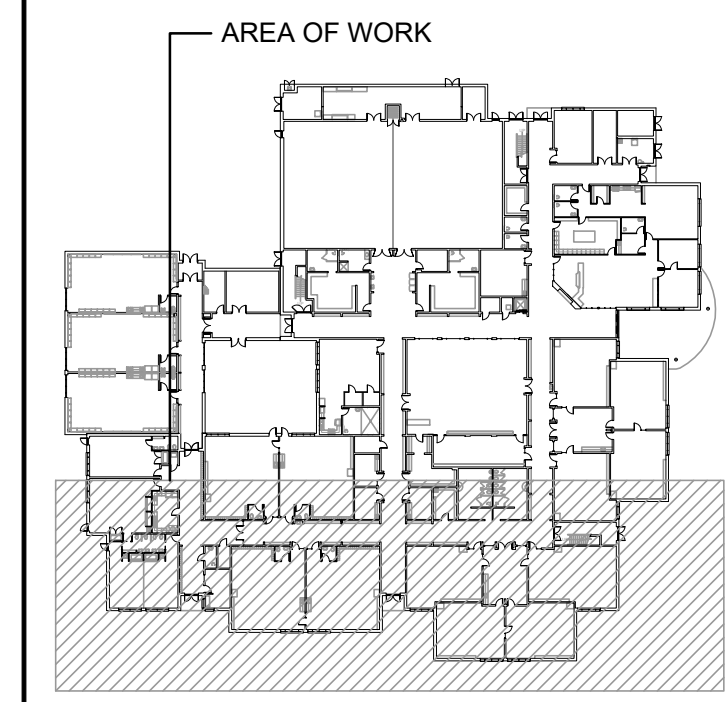
SPECIFIC RENOVATION NOTES

- 1 RECONNECT NEW DEVICES TO EXISTING WIRING MADE AVAILABLE DURING DEMOLITION PHASE. EXISTING CONTROLS TO REMAIN.
- 2 PROVIDE NEW DEVICE. MOUNT TO EXISTING BACKBOX. PROVIDE POWER PACK(S)/DIGITAL RELAY ABOVE ACCESSIBLE CEILING SPACE. PROVIDE NEW WIRING AS REQUIRED. REFER TO LIGHTING CONTROL SEQUENCE.
- 3 LIGHTING FIXTURES REQUIRE 0-10V WIRING FOR DIMMING. REFER TO LIGHTING CONTROL SEQUENCE.
- 4 REWORK EXISTING WIRING CONTROLLED VIA OCCUPANCY SENSOR AS INDICATED. CURRENTLY ALL CORRIDOR LIGHTS TURNED ON TOGETHER.
- 5 DUE TO THE REMOVAL OF EXISTING LIGHT FIXTURE OR NEW LOCATION OF SUSPENDED FIXTURES. THIS CONTRACTOR TO PROVIDE NEW CEILING TILE. COORDINATE WITH BOARD ON EXACT MODEL TYPE.
- 6 CONNECT EXISTING FIXTURE TO NIGHT LIGHT CIRCUIT.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
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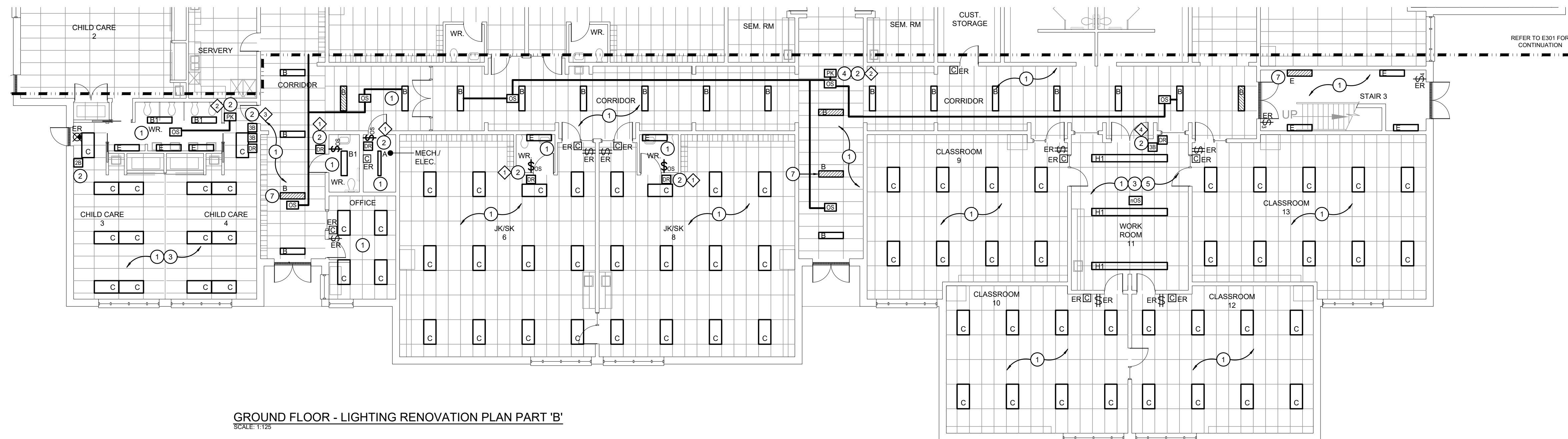
ISSUANCES

No	DATE YY MM DD	DESCRIPTION	BY
1	2026.02.13	ISSUED FOR REVIEW	RV
A	26.03.26	ISSUED FOR TENDER	RV



Professional Engineer
 License No. 100011324
 J. JACKSON
 3/26/26
 PROVINCE OF ONTARIO

North
 Project North



GROUND FLOOR - LIGHTING RENOVATION PLAN PART 'B'
 SCALE: 1:125

Project
**WRDSB EDNA STAEBLER PS
 INTERIOR LIGHTING
 UPGRADES**
 459 BERNAY DR. WATERLOO ON N2T 3A3
 Sheet Title
**GROUND FLOOR - LIGHTING
 RENOVATION PLAN PART 'B'**

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 Consulting Engineers
 MECHANICAL | ELECTRICAL | AQUATIC
 55 Northland Road, Waterloo, ON N2V 1Y8
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 Website: deiassociates.ca

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Scale AS NOTED	Project Date OCT 2025	Print Date

Project No.
25355

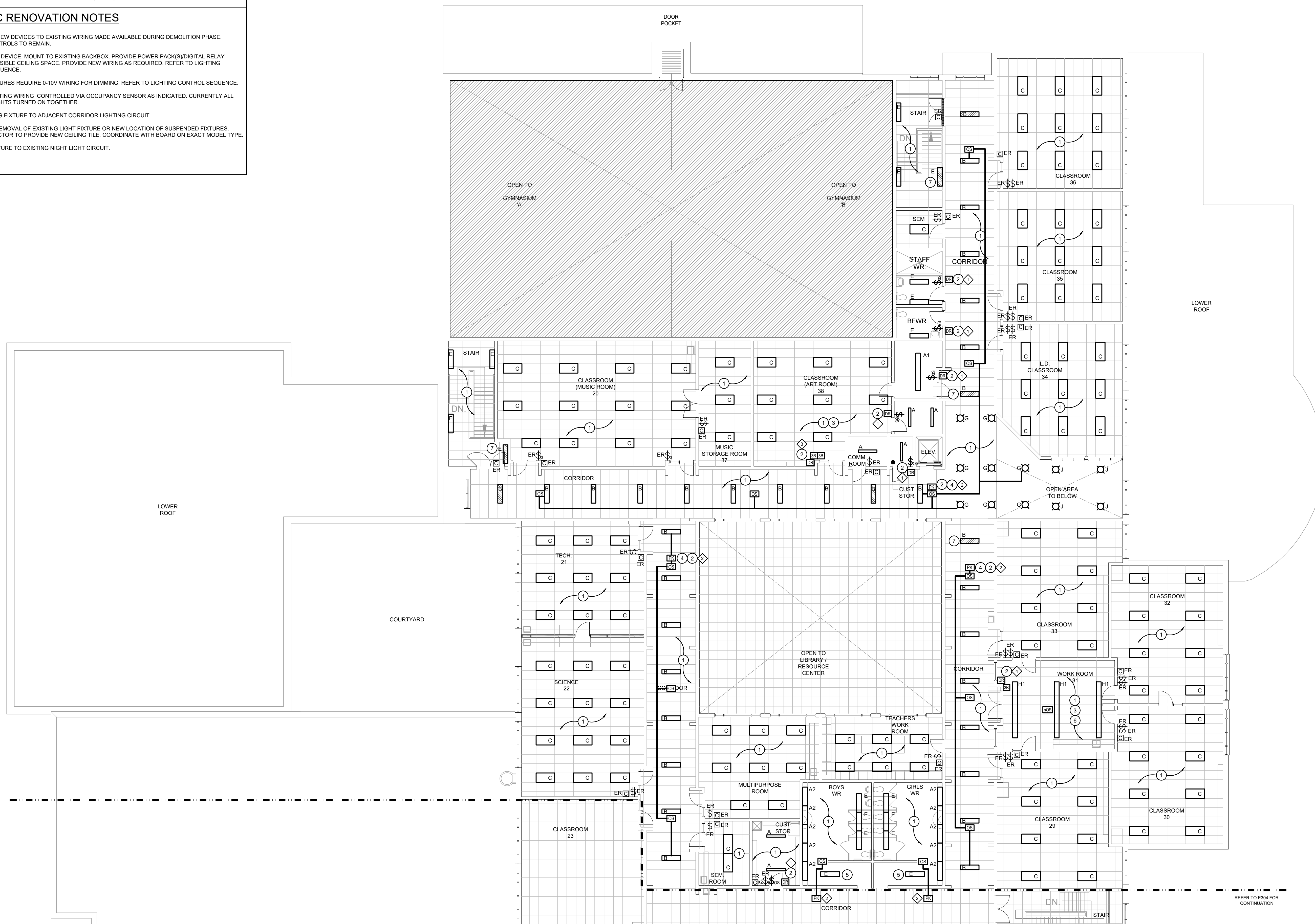
Drawing No.
E302

GENERAL RENOVATION NOTES

- 'ER' INDICATES EXISTING ITEM TO REMAIN.
- 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION.
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- MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN.
- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

- 1 RECONNECT NEW DEVICES TO EXISTING WIRING MADE AVAILABLE DURING DEMOLITION PHASE. EXISTING CONTROLS TO REMAIN.
- 2 PROVIDE NEW DEVICE. MOUNT TO EXISTING BACKBOX. PROVIDE POWER PACK(S)/DIGITAL RELAY ABOVE ACCESSIBLE CEILING SPACE. PROVIDE NEW WIRING AS REQUIRED. REFER TO LIGHTING CONTROL SEQUENCE.
- 3 LIGHTING FIXTURES REQUIRE 0-10V WIRING FOR DIMMING. REFER TO LIGHTING CONTROL SEQUENCE.
- 4 REWORK EXISTING WIRING. CONTROLLED VIA OCCUPANCY SENSOR AS INDICATED. CURRENTLY ALL CORRIDOR LIGHTS TURNED ON TOGETHER.
- 5 WIRE LIGHTING FIXTURE TO ADJACENT CORRIDOR LIGHTING CIRCUIT.
- 6 DUE TO THE REMOVAL OF EXISTING LIGHT FIXTURE OR NEW LOCATION OF SUSPENDED FIXTURES. THIS CONTRACTOR TO PROVIDE NEW CEILING TILE. COORDINATE WITH BOARD ON EXACT MODEL TYPE.
- 7 CONNECT FIXTURE TO EXISTING NIGHT LIGHT CIRCUIT.



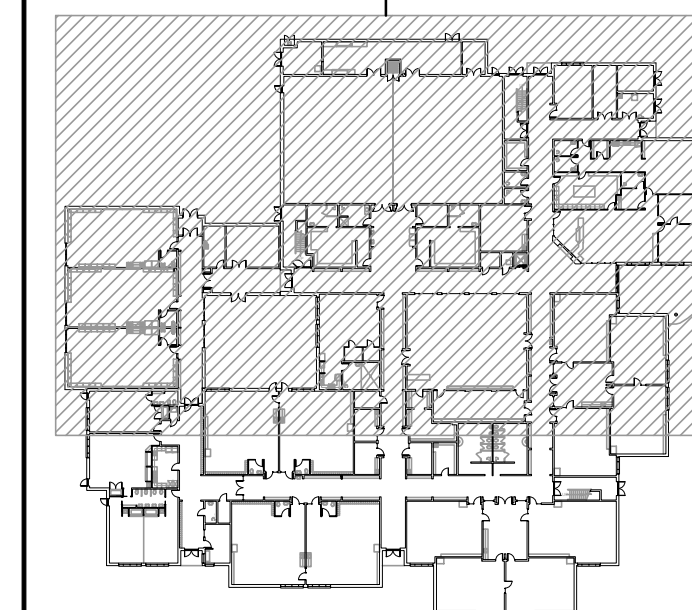
SECOND FLOOR - LIGHTING RENOVATION PLAN PART 'A'
SCALE: 1/32

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A	26.03.26	ISSUED FOR TENDER	RV

AREA OF WORK



Key Plan



Seal of the Professional Engineer J. J. JACKSON, License No. 100011324, dated 3/26/26, Province of Ontario. Includes a North arrow pointing towards the top right of the sheet.

**WRDSB EDNA STAEBLER PS
INTERIOR LIGHTING
UPGRADES**

450 BERNAY DR. WATERLOO ON N2T 3A3

**SECOND FLOOR - LIGHTING
RENOVATION PLAN PART 'A'**

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Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca

Drawn by HZ	Checked by RV	Approved by RV
Scale AS NOTED	Project Date OCT 2025	Print Date
Project No. 25355	Drawing No. E303	

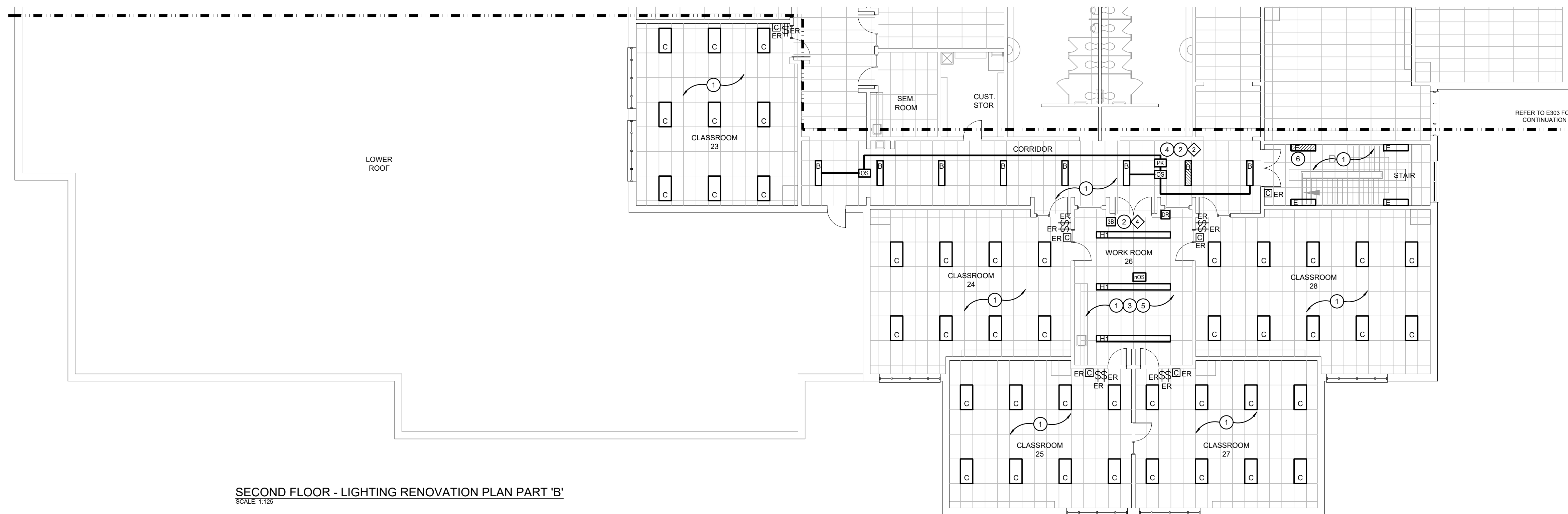
REFER TO E304 FOR CONTINUATION

GENERAL RENOVATION NOTES

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- REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED).

SPECIFIC RENOVATION NOTES

- 1 RECONNECT NEW DEVICES TO EXISTING WIRING MADE AVAILABLE DURING DEMOLITION PHASE. EXISTING CONTROLS TO REMAIN.
- 2 PROVIDE NEW DEVICE. MOUNT TO EXISTING BACKBOX. PROVIDE POWER PACK(S)/DIGITAL RELAY ABOVE ACCESSIBLE CEILING SPACE. PROVIDE NEW WIRING AS REQUIRED. REFER TO LIGHTING CONTROL SEQUENCE.
- 3 LIGHTING FIXTURES REQUIRE 0-10V WIRING FOR DIMMING. REFER TO LIGHTING CONTROL SEQUENCE.
- 4 REWORK EXISTING WIRING. CONTROLLED VIA OCCUPANCY SENSOR AS INDICATED. CURRENTLY ALL CORRIDOR LIGHTS TURNED ON TOGETHER.
- 5 DUE TO THE REMOVAL OF EXISTING LIGHT FIXTURE OR NEW LOCATION OF SUSPENDED FIXTURES. THIS CONTRACTOR TO PROVIDE NEW CEILING TILE. COORDINATE WITH BOARD ON EXACT MODEL TYPE.
- 6 CONNECT FIXTURE TO NIGHT LIGHT CIRCUIT.

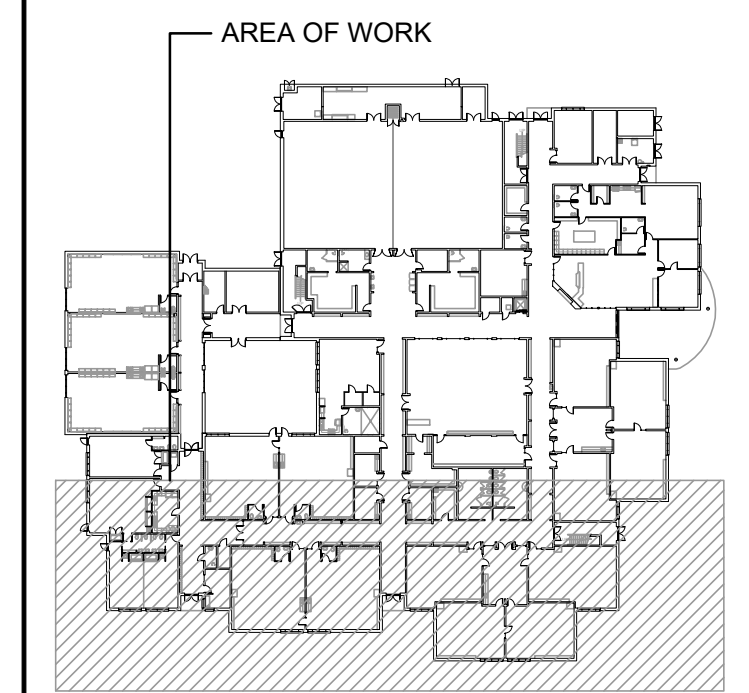


SECOND FLOOR - LIGHTING RENOVATION PLAN PART 'B'
SCALE: 1/125

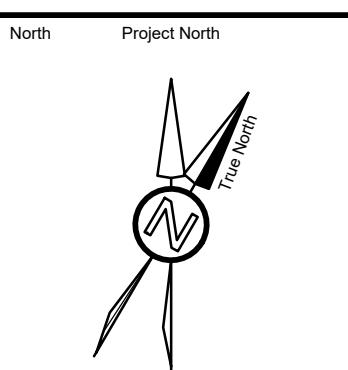
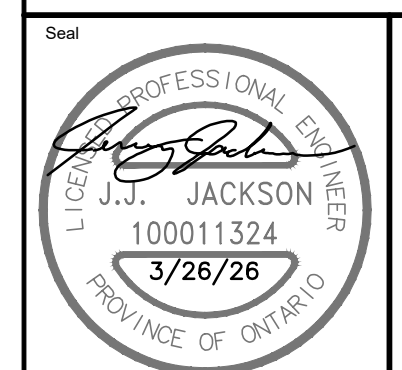
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A	26.03.26	ISSUED FOR TENDER	RV



Key Plan



Project
**WRDSB EDNA STAEBLER PS
INTERIOR LIGHTING
UPGRADES**

450 BERNAY DR. WATERLOO ON N2T 3A3

Sheet Title
**SECOND FLOOR - LIGHTING
RENOVATION PLAN PART 'B'**

DEI
Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 519-725-3555
Website: deiassociates.ca

Drawn by HZ	Checked by RV	Approved by RV
Scale AS NOTED	Project Date OCT 2025	Print Date

Project No. 25355	Drawing No. E304
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ELECTRICAL SPECIFICATION

GENERAL NOTES

- 1. PROVIDE LABOUR MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO THE OWNER, ARCHITECT AND CONSULTANT.
2. OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS, OBTAIN NECESSARY APPROVALS, CERTIFICATES AND INSPECTIONS. SUBMIT ALL FINAL CERTIFICATES TO THE CONSULTANT.
3. COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF UNDERWRITERS, ELECTRICAL SAFETY AUTHORITY, THE CANADIAN STANDARDS ASSOCIATION AND ALL REQUIREMENTS OF THE LOCAL UTILITY.
4. VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDE ALL SITE CONDITIONS IN TENDER, EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND CONSULTANT.
5. CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRING TO INSTALL THE SERVICE.
6. THE DRAWINGS ARE DIAGRAMMATIC, THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS.
7. SUBMIT COPIES OF SHOP DRAWINGS AS PDF FILES VIA EMAIL FOR ALL MAJOR EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY.
8. PROVIDE ALL NECESSARY PROTECTION FOR FINISHED OR UNFINISHED WORK. ALL OPENINGS IN CONDUITS, DUCTS AND EQUIPMENT SHALL BE CAPPED TO ENSURE SERVICES ARE KEPT CLEAN WHEN NOT IN USE.
9. MAINTAIN INSURANCE TO FULLY PROTECT THE CONTRACTOR, OWNER AND CONSULTANT FROM ANY AND ALL CLAIMS SUCH AS UNDER THE WORKMENS COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE MINISTRY OF LABOUR REQUIREMENTS.
10. PROVIDE STRUCTURAL SUPPORTS, PLATFORMS, SUPPORTING RODS, HANGERS, INSERTS AND BRACKETS FOR EQUIPMENT AND SERVICES. DO NOT SUPPORT SERVICES FROM STEEL DECK.
11. INSTRUCT THE OWNER'S STAFF IN THE CARE, MAINTENANCE AND OPERATION OF THE SYSTEMS.
12. WARRANTY ALL LABOUR, MATERIAL AND EQUIPMENT FOR A PERIOD OF TWO YEARS AFTER FINAL ACCEPTANCE OF SYSTEM.
13. COORDINATE WITH OTHER CONTRACTORS INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH APPARATUS OF ALL OTHER TRADES.
14. PROVIDE LAMICOID TAGS FOR IDENTIFICATION OF NEW EQUIPMENT ADDD.
15. MOUNTING HEIGHTS SHALL BE AS FOLLOWS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE/EQUIPMENT (UNLESS OTHERWISE NOTED);
- SWITCHES, DIMMERS AND SPEED CONTROLLERS: 1100mm (44")
16. ALL AREAS NOT AFFECTED BY RENOVATION OR DEMOLITION SHALL REMAIN AS PRESENTLY INSTALLED UNLESS OTHERWISE NOTED.
17. SUBMIT TWO COPY OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A THREE RING BINDER LABELED FOR THE PROJECT COMPLETE WITH ITEMIZED SECTIONS CONTAINING PROJECT DATA, SHOP DRAWINGS, ETC. UPON ACCEPTANCE OF THE OPERATION AND MAINTENANCE MANUAL BY THE CONSULTANT PROVIDE TWO ADDITIONAL COPIES BOUND IN SEPARATE THREE RING BINDERS. A PDF FILE OF THE ENTIRE MANUAL IS TO BE PROVIDED ON A USB STICK. ONLY ONE USB STICK IS TO BE PROVIDED CONTAINING BOTH THE APPROVED MANUALS AND RECORD DRAWINGS.
18. CONTRACTOR SHALL PROVIDE 2 SETS OF REPRODUCIBLE ELECTRICAL DRAWINGS. MARK THEREON ALL CHANGES AS WORK PROGRESSES AND AS CHANGES OCCUR. THIS SHALL INCLUDE FIELD AND CONTRACT CHANGES TO ELECTRICAL SYSTEMS. IDENTIFY EACH DRAWING IN LOWER RIGHT HAND CORNER IN LETTERS AT LEAST 3mm (1/8") HIGH AS FOLLOWS: - "RECORD DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. (SIGNATURE OF CONTRACTOR/DATE)". SUBMIT HARD COPY TO CONSULTANT FOR APPROVAL. WHEN RETURNED, MAKE CORRECTIONS (IF ANY) AS DIRECTED. ONCE APPROVED, SUBMIT COMPLETED REPRODUCIBLE PAPER RECORD DRAWINGS AS WELL AS A SCANNED PDF COPY FILE ON USB STICK WITH OPERATING AND MAINTENANCE MANUALS.
19. CONTRACTOR SHALL PROVIDE RED LINE RECORD DRAWINGS OF EACH AND EVERY ELECTRICAL DRAWING FOR DEI CONSULTING ENGINEERS TO CAD THE RECORD DRAWINGS. THE CAD DRAWING FILES WILL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS.
20. THE CONTRACTOR IS TO DETERMINE GENERAL INSPECTION FEES WITH THE ELECTRICAL SAFETY AUTHORITY AND INCLUDE AS PART OF TENDER.

BASIC MATERIALS

- 1. JUNCTION, OUTLET AND PULL BOXES MUST BE APPROVED TO SUIT INSTALLATION METHODS AND ENVIRONMENT.
2. CONDUIT MUST BE CONCEALED UNLESS INSTALLED IN SERVICE OR STORAGE ROOMS.
3. CONDUIT MUST BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER.
4. ALL FEEDER AND BRANCH CIRCUIT WIRING MUST BE COPPER, T90 RATING/STYLE RUN IN EMT CONDUIT WITH INTERNAL INSULATED GREEN GROUND WIRE UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AND MINIMUM CONDUIT SIZE SHALL BE 3/4" (19mm).
5. AC90 CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING IN STEEL STUD WALLS AND "DROPS" IN T-BAR CEILING AREAS TO LIGHT FIXTURES AND FIRE ALARM DEVICES. LENGTH OF DROP MUST BE LIMITED TO 8'-0" (2400mm).
6. WHERE DEVICES ARE TO BE INSTALLED ON EXISTING WALLS IN FINISHED AREA, WHICH CANNOT BE FISHED, INSTALL FEEDS IN A SURFACE METAL RACEWAY EQUAL TO WIREMOLD V700 SERIES.
7. COLOUR CODE CONDUITS, BOXES AND METALLIC SHEATHED CABLES.
8. CODE WITH PLASTIC TAPE OR PAINT AT POINTS WHERE CONDUIT OR CABLE ENTERS WALL, CEILING, OR FLOOR, AND AT 15m(45) INTERVALS.
9. COLOUR BANDS MUST BE 25mm(1") WIDE AND CODED AS FOLLOWS FOR NOTED SYSTEMS.

Table with 2 columns: SYSTEM (UP TO 208V, 208 TO 600V) and COLOUR (YELLOW, WHITE)

10. THIS CONTRACTOR MUST PAINT ALL SYSTEM JUNCTION BOXES AND COVERS IN CONFORMANCE WITH THE ABOVE SCHEDULE.

DRAW BREAKDOWN

- 1. THIS CONTRACTOR MUST SUBMIT A BREAKDOWN OF THE TENDER PRICE INTO CLASSIFICATIONS TO THE SATISFACTION OF THE CONSULTANT, WITH THE AGGREGATE OF THE BREAKDOWN TOTALING THE TOTAL CONTRACT AMOUNT. EACH ITEM MUST BE BROKEN OUT INTO MATERIAL AND LABOUR COSTS. PROGRESS CLAIMS, WHEN SUBMITTED ARE TO BE ITEMIZED AGAINST EACH ITEM OF THE DRAW BREAKDOWN. THIS SHALL BE DONE IN TABLE FORM SHOWING CONTRACT AMOUNT, AMOUNT THIS DRAW, TOTAL TO DATE, % COMPLETE AND BALANCE.
2. BREAKDOWN SHALL BE AS FOLLOWS:
1. PERMITS AND FEES
2. MOBILIZATION (MAXIMUM 1%)
3. COMMISSIONING (MINIMUM 3%)
4. LIGHTING LAMP REPLACEMENT
5. LIGHTING CONTROL'S REPLACEMENT
3. THE BREAKDOWN MUST BE APPROVED BY THE CONSULTANT PRIOR TO SUBMISSION OF THE FIRST DRAW.
4. BREAKDOWNS NOT COMPLYING TO THE ABOVE WILL NOT BE APPROVED.
5. BREAKDOWN MUST INDICATE TOTAL CONTRACT AMOUNT.
6. MOBILIZATION AMOUNT MAY ONLY BE DRAWN WHEN ALL REQUIRED SHOP DRAWINGS HAVE BEEN REVIEWED BY THE CONSULTANT.

SHOP DRAWINGS AND PRODUCT DATA

- 1. FURNISH COMPLETE CATALOG DATA FOR MANUFACTURED ITEMS OF EQUIPMENT TO BE USED IN THE WORK TO CONSULTANT FOR REVIEW WITHIN 30 DAYS AFTER AWARD OF CONTRACT.
2. IF MATERIAL OR EQUIPMENT IS NOT AS SPECIFIED OR SUBMITTAL IS NOT COMPLETE, IT WILL BE REJECTED BY CONSULTANT.
3. ADDITIONAL SHOP DRAWINGS REQUIRED BY THE CONTRACTOR FOR MAINTENANCE MANUALS, SITE COPIES ETC., SHALL BE PHOTOCOPIES OF THE "REVIEWED" SHOP DRAWINGS. ALL COSTS TO PROVIDE ADDITIONAL COPIES OF SHOP DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
4. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED.
5. CATALOG DATA OR SHOP DRAWINGS FOR EQUIPMENT, WHICH ARE NOTED AS BEING REVIEWED BY CONSULTANT OR HIS ENGINEER SHALL NOT SUPERSEDE CONTRACT DOCUMENTS.
6. REVIEW COMMENTS OF CONSULTANT SHALL NOT RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS UNLESS CONSULTANT'S ATTENTION HAS BEEN CALLED TO SUCH DEVIATIONS IN WRITING AT TIME OF SUBMISSION, NOR SHALL THEY RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR ERRORS IN ITEMS SUBMITTED.
7. CHECK WORK DESCRIBED BY CATALOG DATA WITH CONTRACT DOCUMENTS FOR DEVIATIONS AND ERRORS.
8. SHOP DRAWINGS AND PRODUCT DATA SHALL SHOW:
1. MOUNTING ARRANGEMENTS.
2. OPERATING AND MAINTENANCE CLEARANCES. E.G. ACCESS DOOR SWING SPACES.
9. SHOP DRAWINGS AND PRODUCT DATA SHALL BE ACCOMPANIED BY:
1. DETAILED DRAWINGS OF BASES, SUPPORTS, AND ANCHOR BOLTS.
2. MANUFACTURER TEST DATA WHERE REQUESTED.
3. MANUFACTURER TO CERTIFY AS TO CURRENT MODEL PRODUCTION.
4. CERTIFICATION OF COMPLIANCE TO APPLICABLE CODES.
10. STATE SIZES, CAPACITIES, BRAND NAMES, MOTOR HP, ACCESSORIES, MATERIALS, GAUGES, DIMENSIONS, AND OTHER PERTINENT INFORMATION. LIST ON CATALOG COVERS PAGE NUMBERS OF SUBMITTED ITEMS. UNDERLINE APPLICABLE DATA.
11. ONCE THESE SHOP DRAWINGS ARE RETURNED "REVIEWED" OR "REVIEWED AS NOTED" FABRICATION, PRODUCTION, AND INSTALLATION MAY COMMENCE. NOTE: IF A SHOP DRAWING IS RETURNED "REVIEWED AS NOTED" THIS CONTRACTOR MUST PROVIDE WRITTEN INDICATION THAT THE COMMENTS HAVE BEEN COMPLIED WITH.
12. A PARTIAL LIST OF SHOP DRAWINGS INCLUDES:
1. LUMINAIRES
2. WIRING DEVICES
3. OCCUPANCY SENSORS

FIRESTOPPING

- 1. FIRESTOPPING MATERIAL AND INSTALLATION WITHIN ANNULAR SPACE BETWEEN CONDUITS, DUCTS, AND ADJACENT FIRE SEPARATION.
2. PROVIDE MATERIALS AND SYSTEMS CAPABLE OF MAINTAINING EFFECTIVE BARRIER AGAINST FLAME, SMOKE, AND GASES.
3. COMPLY WITH THE REQUIREMENTS OF CANA-S115-M35, AND DO NOT EXCEED OPENING SIZED FOR WHICH THEY HAVE BEEN TESTED.
4. SYSTEMS TO HAVE AN F OR FT RATING (AS APPLICABLE) NOT LESS THAN THE FIRE PROTECTION RATING REQUIRED FOR CLOSURES IN A FIRE SEPARATION. PROVIDE "FIREWRAP" BLANKET AROUND SERVICES PENETRATING FIREWALLS.
5. EXTENT OF BLANKET MUST CORRESPOND TO ULC RECOMMENDATIONS. IN GENERAL WRAP INDIVIDUAL CONDUITS WITH APPROVED FIREWRAP MATERIALS ON EACH SIDE OF FIREWALL. REFER TO ARCHITECTURAL DRAWINGS FOR FT RATINGS. PROVIDE 1 AND/OR 2 LAYERS OF FIREWRAP WITH TRANSVERSE AND LONGITUDINAL SEAMS OVERLAPPED AND/OR BUTTED (SECOND LAYER OFFSET FROM FIRST LAYER). CUT EDGES ARE TO BE SEALED WITH ALUMINUM FOIL TAPE. PROVIDE 50 MM STAINLESS STEEL BANDING AT 200 MM INTERVALS. INSTALL FIREWRAP TO MANUFACTURERS' RECOMMENDATIONS FOR PROPER FT RATING. ACCEPTABLE MANUFACTURERS ARE 3M FIREMASTER DUCTWRAP OR APPROVED EQUAL.
6. THE FIRESTOPPING MATERIALS ARE NOT TO SHRINK, SLUMP OR SAG AND BE FREE OF ASBESTOS, HALOGENS AND VOLATILE SOLVENTS.
7. FIRESTOPPING MATERIALS ARE TO CONSIST OF A COMPONENT SEALANT APPLIED WITH A CONVENTIONAL CAULKING GUN AND TROWEL.
8. FIRESTOP MATERIALS ARE TO BE CAPABLE OF RECEIVING FINISH MATERIALS IN THOSE AREAS, WHICH ARE EXPOSED AND SCHEDULED TO RECEIVE FINISHES.
9. FIRESTOPPING SHALL BE INSPECTED AND APPROVED BY LOCAL AUTHORITY PRIOR TO CONCEALMENT OR ENCLOSURE.
10. INSTALL MATERIAL AND COMPONENTS IN ACCORDANCE WITH ULC CERTIFICATION, MANUFACTURERS INSTRUCTIONS AND LOCAL AUTHORITY.
11. SUBMIT PRODUCT LITERATURE AND INSTALLATION MATERIAL ON FIRESTOPPING IN SHOP DRAWING AND PRODUCT DATA MANUAL.
12. ACCEPTABLE MANUFACTURERS:
RECTORSEAL CORPORATION (METACAULK)
PROSECT SYSTEMS
3M
HILTI
STI FIRESTOP
NOTE: FIRE STOP MATERIAL MUST CONFORM TO REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION. CONTRACTOR TO CONFIRM PRIOR TO APPLICATION AND ENSURE MATERIAL USED IS COMPATIBLE WITH THAT USED BY OTHER TRADES ON SITE.
13. ENSURE FIRESTOP MANUFACTURER REPRESENTATIVE PERFORMS ON SITE INSPECTIONS AND CERTIFIES INSTALLATION. SUBMIT INSPECTION REPORTS/CERTIFICATION AT TIME OF SUBSTANTIAL COMPLETION.

OCCUPANCY REQUIREMENTS

- 1. FINAL CERTIFICATES
1. ELECTRICAL SAFETY AUTHORITY

READY FOR TAKEOVER

- 1. COMPLETE THE FOLLOWING TO THE SATISFACTION OF THE CONSULTANT PRIOR TO REQUEST FOR READY FOR TAKEOVER.
1. AS-BUILT DRAWINGS.
2. MAINTENANCE MANUALS.
3. SYSTEM START UP.
4. INSTRUCTIONS TO OWNERS.
5. LIGHTING CONTROL SYSTEM.
6. OUTLET COVER CIRCUIT LABELS.

WIRING DEVICES

- 1. GENERAL PURPOSE AC SWITCHES MUST CONFORM TO CSA C22.2 NO. 111 (LATEST EDITION).
2. 15 OR 20 A, 347 V, KEY-SWITCHED
3. MANUALLY-OPERATED GENERAL PURPOSE AC SWITCHES WITH THE FOLLOWING FEATURES:
1. TERMINAL HOLES APPROVED FOR NO. 10 AWG WIRE.
2. SILVER ALLOY CONTACTS.
3. UREA OR MELAMINE MOLDING FOR PARTS SUBJECT TO CARBON TRACKING.
4. SUITABLE FOR BACK AND SIDE WIRING.
5. TOGGLE COLOUR AS SELECTED BY ARCHITECT.
4. ACCEPTABLE MATERIALS:
1. KEYED SWITCH SINGLE POLE: HUBBELL CAT. #HBL18203LCN (347V) OR EQUAL.
2. KEYED SWITCH SINGLE POLE: HUBBELL CAT.# HBL1221L (120V/277V) OR EQUAL.
5. INSTALL SINGLE THROW SWITCHES WITH HANDLE IN "UP" POSITION WHEN SWITCH IS CLOSED.
6. INSTALL SWITCHES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE SWITCH IS REQUIRED IN ONE LOCATION.
7. LOW VOLTAGE OCCUPANCY SENSOR:
SENSORSWITCH CM 10 FOR CORRIDORS
- PIR ONLY
- PUSH-BUTTON PROGRAMMABLE
SENSORSWITCH CM-PDT-10 FOR EVERYWHERE ELSE OTHER THAN CORRIDORS.
- DUAL TECHNOLOGY
- PUSH-BUTTON PROGRAMMABLE
WALL SENSOR WV PDT 16
- DUAL TECHNOLOGY
- LARGE MOTION DETECTION 70FT

OR EQUAL:

- 1. HUBBELL
2. LEVITON
3. GREENGATE
8. POWERPACK PP16X EFP (347V) AND PP16 EFP (120V) OR EQUAL HUBBELL, LEVITON AND GREENGATE.
9. DIGITAL RELAYS nPP16 (347V) AND nPP16D (347V) OR EQUAL HUBBELL, LEVITON AND GREENGATE.
10. PROVIDE OTHER OCCUPANCY SENSORS TO SUIT THE DETAIL(S) ON THE DRAWINGS.
11. ALL SENSORS SHALL BE SET TO 5 MINUTES "DELAY TO OFF" UNLESS OTHERWISE DIRECTED.
12. OCCUPANCY SENSORS:
1. INSTALL POWER PACKS/DIGITAL RELAY IN ACCESSIBLE MAINTENANCE AREAS.
2. PROVIDE ACCESS DOORS IF POWER PACKS ARE INSTALLED ABOVE DRYWALL CEILINGS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORY IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER COVERAGE WITHIN THE RANGE OF COVERAGE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOMS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH THE MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE FACILITY, TO VERIFY PLACEMENT TO SENSORS AND INSTALLATION CRITERIA.
5. THE CONTRACTOR SHALL ALSO PROVIDE THE ON-SITE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES SYSTEMS.
6. UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL. SUBMIT COMMISSIONING REPORT WITH CLOSE-OUT DOCUMENTS.
13. INSTALL DEVICES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE DEVICE IS REQUIRED IN ONE LOCATION.
14. STAINLESS STEEL, VERTICALLY BRUSHED, 1mm THICK COVER PLATES FOR WIRING DEVICES MOUNTED IN FLUSH-MOUNTED OUTLET BOXES.
15. SHEET METAL COVER PLATES FOR WIRING DEVICES MOUNTED IN SURFACE-MOUNTED FS OR FD TYPE CONDUIT BOXES.
16. PROTECT STAINLESS STEEL COVER PLATE FINISH WITH PAPER OR PLASTIC FILM UNTIL PAINTING AND OTHER WORK IS FINISHED.
18. INSTALL SUITABLE COMMON COVER PLATES WHERE WIRING DEVICES ARE GROUPED.
19. LINE VOLTAGE WALL SENSORS - SENSOR SWITCH WSXA PDT WH (REFER TO LIGHTING SEQUENCE CONTROLS FOR VOLTAGE)
- DUAL TECHNOLOGY
- PUSH-BUTTON PROGRAMMABLE
- VACANCY SENSOR IN STAFF-ONLY AREAS
- OCCUPANCY SENSOR IN STUDENT-ACCESSED AREAS.
20. LOW VOLTAGE WALL SENSORS - SENSOR SWITCH nWSXA PDT WH (REFER TO LIGHTING SEQUENCE CONTROLS FOR VOLTAGE)
- DUAL TECHNOLOGY
- PUSH-BUTTON PROGRAMMABLE
- VACANCY SENSOR IN STAFF-ONLY AREAS
- OCCUPANCY SENSOR IN STUDENT-ACCESSED AREAS.

LIGHTING SYSTEMS

FIXTURES ARE TO BE PROVIDED AS NOTED IN THE LIGHT FIXTURE SCHEDULE CW THE FOLLOWING FEATURES:

- 1. LED
1. FIXTURE LED'S MUST BE TESTED IN CONFORMANCE WITH IESNA LM80 STANDARD.
2. LED'S MUST BE SELECTED USING A BINNING ALGORITHM TO ENSURE COLOUR AND LUMEN OUTPUT OF A GIVEN FIXTURE ARE CONSISTENT, AS WELL AS MEET OR SURPASS ANSI C78.377 SPECIFICATION FOR THE RATED LIFETIME OF THE FIXTURE. COLOUR ACCURACY BETWEEN PRODUCTS MUST BE WITHIN A 2-STEP MACADAM ELLIPSE.
3. LUMINAIRES MUST BE TESTED TO IESNA LM79 BY AN INDEPENDENT APPROVED LABORATORY.
4. LUMINAIRES MUST BE TESTED PRIOR TO SHIPPING.
5. LUMINAIRES MUST BE ULC CERTIFIED AND APPROVED FOR USE IN CANADA.
6. FIXTURES MUST MAINTAIN A MINIMUM OF 90% OF THEIR INITIAL LIGHT OUTPUT FOR 60,000 HOURS. SUBMIT TEST RESULTS UPON REQUEST.
7. LUMEN VALUES INDICATED FOR FIXTURES IN THE PROJECT DOCUMENTS ARE TO BE CONSIDERED AS 'ABSOLUTE' OR 'DELIVERED' VALUES.
8. OTHER THAN FOR SPECIALTY FIXTURES, AND UNLESS OTHERWISE INDICATED, THE MAXIMUM DRIVER CURRENT IS TO BE 760 MA.
2. FIXTURE INSTALLATION
1. LOCATE AND INSTALL LUMINAIRES AS INDICATED.
2. FIXTURE SURFACE MOUNTED TO SUSPENDED CEILINGS MUST BE SECURED THROUGH CEILING ASSEMBLY TO CROSS MEMBER SUPPORTS. THESE SUPPORTS ARE TO BE STEEL CHANNELS OR ANGLES INDEPENDENTLY SECURED TO STRUCTURE USING #12 "JACK" CHAIN. EACH CHAIN MUST BE SECURED SO NO FIXTURE WEIGHT IS ADDED TO THE CEILING ASSEMBLY.
14. ALIGN LUMINAIRES MOUNTED IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINES.
15. ALIGN LUMINAIRES MOUNTED INDIVIDUALLY PARALLEL OR PERPENDICULAR TO BUILDING GRID LINES.
3. GUARANTEE
1. ALL LED FIXTURES AND DRIVERS ARE TO BE COMPLETE WITH A 5 YEAR GUARANTEE.
2. THE LABOUR REQUIRED TO REPLACE THESE DRIVERS MUST BE INCLUDED IN THE ABOVE GUARANTEE.

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not include all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2026 DEI Consulting Engineers Inc.

ISSUANCES

Table with 4 columns: No, DATE (YY MM DD), DESCRIPTION, BY. Row 1: 1, 2026.02.13, ISSUED FOR REVIEW, RV. Row 2: A, 26.03.26, ISSUED FOR TENDER, RV.



Project: WRDSB EDNA STAEBLER PS INTERIOR LIGHTING UPGRADES
459 BERNAY DR, WATERLOO ON N2T 3A3

Sheet Title: SPECIFICATIONS

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Table with 3 columns: Drawn by (HZ), Checked by (RV), Approved by (RV). Scale: AS NOTED. Project Date: OCT 2025. Print Date: (blank).

Project No: 25355, Drawing No: E401