

ELECTRICAL SHEET LIST	
SHEET NUMBER	SHEET NAME
E000	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E100	DEMOLITION LIGHTING PLAN - PARTIAL LOWER LEVEL
E101	DEMOLITION POWER PLAN - PARTIAL LOWER LEVEL
E102	DEMOLITION SIGNAL PLAN - PARTIAL LOWER LEVEL
E200	LIGHTING PLAN - PARTIAL LOWER LEVEL
E300	POWER PLAN - PARTIAL LOWER LEVEL
E303	POWER PLAN - PARTIAL SEVENTH LEVEL INTERSTITIAL
E400	SIGNAL PLAN - PARTIAL LOWER LEVEL
E600	LIGHT FIXTURE AND ELECTRICAL SCHEDULES
SHEET TOTAL: 9	



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WILLIAM E. EVANS, PE



DUNHAM

HCMC HISTOLOGY LAB REMODEL

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ELECTRICAL SYMBOLS AND ABBREVIATIONS



A.	CONTRACTOR TO VERIFY ALL DEVICES BEING DEMOLISHED.
B.	COORDINATE ALL DEMO WORK WITH OTHER TRADES.
C.	MAINTAIN POWER TO ALL CIRCUITS THAT ARE NOT AFFECTED BY CONSTRUCTION THAT MAY RUN THROUGH THE DEMO AREA.
D.	ANY CONDUIT AND WIRING NOT BEING RE-USED SHALL BE REMOVED BACK TO SOURCE.

① **BASE BID:** NO DEMOLITION OR NEW WORK ASSOCIATED WITH SPACE OUTLINED SINGLE DASH LINES. SPACE AND LIGHTING ARE EXISTING TO REMAIN.
ADD ALTERNATE #1: PROPOSED AREA OF SPACE REMODEL OUTLINED BY SINGLE-DASHED LINE. PERFORM DEMO AND NEW WORK AS SHOWN.

② **BASE BID:** NO DEMOLITION OR NEW WORK ASSOCIATED WITH SPACE OUTLINED SINGLE DASH LINES. SPACE AND LIGHTING ARE EXISTING TO REMAIN.
ADD ALTERNATE #2: PROPOSED AREA OF SPACE REMODEL OUTLINED BY SINGLE-DASHED LINE. PERFORM DEMO AND NEW WORK AS SHOWN.

1 DEMOLITION LIGHTING PLAN - PARTIAL LOWER LEVEL
1/8" = 1'-0"



①

$$1/8" = 1'-0"$$

ADD ALTERNATE #2: PROPOSED AREA OF SPACE REMODEL
OUTLINED BY SINGLE-DASHED LINE. PERFORM DEMO AND NEW
WORK AS SHOWN.





- A. CONTRACTOR TO VERIFY ALL DEVICES BEING DEMOLISHED.
- B. COORDINATE ALL DEMO WORK WITH OTHER TRADES.
- C. MAINTAIN POWER TO ALL CIRCUITS THAT ARE NOT AFFECTED BY CONSTRUCTION THAT MAY RUN THROUGH THE DEMO AREA.
- D. ANY CONDUIT AND WIRING NOT BEING RE-USED SHALL BE REMOVED BACK TO SOURCE.
- E. ALL EXISTING LOW VOLTAGE CABLING ROUTES TO DATA ROOM PL 673.
- F. ALL EXISTING LOW VOLTAGE CABLING SHALL BE REMOVED BACK TO ITS TERMINATION PANEL. FOR PANELS BEING REMOVED, CONTRACTOR SHALL REMOVE THE BACKBONE CABLING BACK TO ITS RESPECTIVE TERMINATION PANEL.

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ADD ALTERNATE #2: PROPOSED AREA OF SPACE REMODEL OUTLINED BY SINGLE-DASHED LINE. PERFORM DEMO AND NEW WORK AS SHOWN.



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I HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION OR REPORT WAS PREPARED BY
ME OR UNDER MY DIRECT SUPERVISION, AND
THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.



WILLIAM E. EVANS, PE

DATE 11-25-2025 LIC. NO. 42386

THE ARCHITECT SHALL BE DEEMED THE AUTHORS AND
OWNERS OF THEIR RESPECTIVE INSTRUMENTS OF
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HAM PROJECT NUMBER: 0425232-000-00

HCMC HISTOLOGY LAB REMODEL

**HCMC PURPLE BUILDING
730 S 8TH ST.
MINNEAPOLIS, MN
55415**

[illegible]

PROJECT NUMBER: 0425232-000-00
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**DEMOLITION
SIGNAL PLAN -
PARTIAL LOWER
LEVEL**



E102

PROJECT NUMBER: 0425232-000-00

DRAWN BY: WE

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DATE: 11/25/2025

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- A. ALL NORMAL LIGHTING WILL BE FED FROM PANEL H-4 UNLESS NOTED OTHERWISE.
- B. ALL CRITICAL LIGHTING WILL BE FED FROM PANEL HC-1 UNLESS NOTED OTHERWISE.
- C. ALL LIFE/SAFETY LIGHTING WILL BE FED FROM PANEL HSA-3 UNLESS NOTED OTHERWISE.
- D. CIRCUIT NUMBERS ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL NUMBERS IN THE FIELD.
- E. COORDINATE MOUNTING HEIGHTS AND LOCATIONS FOR WALL AND CEILING MOUNTED ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND CEILING PLANS.
- F. ADJACENT, WALL-MOUNTED ELECTRICAL DEVICES ON OPPOSITE SIDES OF A COMMON WALL SHALL NOT BE INSTALLED BACK-TO-BACK. INSTALL THESE DEVICES IN DIFFERENT STUD SPACE WHEREVER POSSIBLE WHILE MAINTAINING DESIGN INTENT.
- G. PER SPECIFICATIONS ALL HOMERUNS SHALL BE IN CONDUIT. BRANCH CIRCUITS, INCLUDING LIGHTING AND POWER CIRCUITING, MAY BE RUN IN HOSPITAL-GRADE MC CABLE WHERE ALLOWED BY CODE.
- H. OCCUPANCY SENSORS ARE SHOWN FOR DESIGN INTENT PURPOSES ONLY. LOCATION, SPACING, AND QUANTITY WILL DEPEND ON SELECTED MANUFACTURER.

① CONNECT TO EXISTING CIRCUIT.

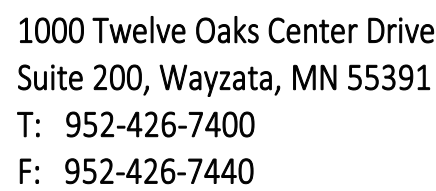
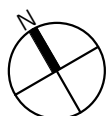
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1 LIGHTING PLAN - PARTIAL LOWER LEVEL
1/8" = 1'-0"



- ① POWER POLE PROVIDED BY FURNITURE VENDOR. COORDINATE POWER CONNECTIONS AND LOCATIONS WITH VENDOR AND OWNER.
- ② PROVIDE RECEPTACLE FOR VERSATRACK MONITORING SYSTEM.
- ③ **BASE BID:** NO DEMOLITION OR NEW WORK ASSOCIATED WITH SPACE OUTLINED SINGLE DASH LINES. SPACE AND POWER ARE EXISTING TO REMAIN.
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WILLIAM E. EVANS, PE

DATE 11-25-2025 **LIC. NO.** 42386

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HAM PROJECT NUMBER: 0425232-01

HCMC HISTOLOGY LAB REMODEL

**HCMC PURPLE BUILDING
730 S 8TH ST.
MINNEAPOLIS, MN
55415**

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POWER PLAN - PARTIAL LOWER LEVEL

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A circle with a shaded sector. The arc length of the shaded sector is labeled as 2.

E303

**AREA OF WORK —**

- A. ALL LOW VOLTAGE CABLES SHALL BE RUN TO DATA ROOM PL.673 UNLESS NOTED OTHERWISE.
- B. PROVIDE FIRE ALARM INTERFACE TO SECURITY DOORS FOR RELEASE OF PATH OF EGRESS DOORS.
- C. PROVIDE AN ADDITIONAL 10' OF CABLE ABOVE CEILING AT ALL CAMERA AND SPEAKER LOCATIONS.
- D. CONNECT NEW PAGING SPEAKERS BACK TO EXISTING VALCOM SYSTEM. COORDINATE EXACT SPEAKER MODEL WITH OWNER.
- E. CONNECT NEW FIRE ALARM DEVICES TO EXISTING ADDRESSABLE SIEMENS SYSTEM.
- F. SECURITY CAMERA CABLEING (WHITE CAT6) SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR; RUN CABLEING TO DATA ROOM PL.673.
- G. CARD ACCESS CABLEING SHALL BE A COMPOSITE TYPE (VERTICAL CABLE #214-2330/PYIL OR OWNER APPROVED EQUAL) AND SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. RUN CABLEING TO DATA ROOM PL.673. VERIFY FINAL LOCATION OF CABLEING WITHIN ROOM WITH OWNER. ALL CABLEING SHALL BE TESTED FOR COMPLIANCE.
- H. ALL SECURITY CAMERAS AND SECURITY CARD ACCESS EQUIPMENT WILL BE PURCHASED AND INSTALLED BY OWNER OR OWNER'S SUBCONTRACTOR.

① **BASE BID:** NO DEMOLITION OR NEW WORK ASSOCIATED WITH SPACE OUTLINED SINGLE DASH LINES. SPACE AND LOW VOLTAGE SYSTEMS ARE EXISTING TO REMAIN.
ADD/ALTERNATE #1: PROPOSED AREA OF SPACE REMODEL OUTLINED BY SINGLE-DASHED LINE. PERFORM DEMO AND NEW WORK AS SHOWN.

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1 SIGNAL PLAN - PARTIAL LOWER LEVEL
1/8" = 1'-0"



LIGHT FIXTURE SCHEDULE

ELECTRICAL

FIXTURE LETTER	FIXTURE STYLE	VOLTAGE	MOUNTING	LAMPS		BALLAST/ DRIVER	FIXTURE MAX VA	CONTROL MEDIA (LENS, LOUVER, ETC.)	MANUFACTURER'S SERIES NUMBER	FIXTURE DESCRIPTION	NOTES
				TYPE	COLOR						
A1	2X4 LED LENSED TROFFER	120/277	LAY-IN GRID INVERTED TEE	LED 5000 LUM MIN	4000K	DIMMING 0-10V (10%)	50 VA	0.125" MINIMUM ACRYLIC LENS	COOPER-METALUX GR SERIES COLUMBIA LTLT SERIES LITHONIA 2BLT SERIES ORACLE 24-OT-LED SERIES	SPRING LATCHES, POST PAINTED STEEL HOUSING, FLUSH ALUM. MITERED CORNERED DOOR FRAME, GASKETED AND/OR WITH METAL LIGHT BAFFLES, DOOR CAN BE LATCHED FROM EITHER SIDE OF HOUSING	1
A6	2X4 LED VOLUMETRIC TROFFER	120/277	LAY-IN GRID INVERTED TEE	LED 5000 LUM MIN	4000K	DIMMING 0-10V (10%)	50 VA	WHITE ACRYLIC OVERLAY, UPPER REFLECTOR PAINTED WHITE	COOPER-METALUX C2 SERIES COLUMBIA LCAT SERIES LITHONIA 2BLT SERIES ORACLE 24-OVHP-LED SERIES	POST PAINTED STEEL HOUSING	
B1	2X2 LED LENSED TROFFER	120/277	LAY-IN GRID INVERTED TEE	LED 4000 LUM MIN	4000K	DIMMING 0-10V (10%)	30 VA	0.125" MINIMUM ACRYLIC LENS	COOPER-METALUX GR SERIES COLUMBIA LLT SERIES LITHONIA 2GTL SERIES ORACLE 22-OT-LED SERIES	SPRING LATCHES, POST PAINTED STEEL HOUSING, FLUSH WHITE ALUM. MITERED CORNERED DOOR FRAME, GASKETED AND/OR WITH METAL LIGHT BAFFLES, DOOR CAN BE LATCHED FROM EITHER SIDE OF HOUSING	
B6	2X2 LED VOLUMETRIC TROFFER	120/277	LAY-IN GRID INVERTED TEE	LED 4000 LUM MIN	4000K	DIMMING 0-10V (10%)	40 VA	SMOOTH, FROSTED ACRYLIC LENS	COOPER-METALUX C2 SERIES COLUMBIA LCAT SERIES LITHONIA 2BLT SERIES ORACLE 22-OVHP-LED SERIES	SPRING LATCHES, POST PAINTED STEEL HOUSING, FLUSH WHITE ALUM. MITERED CORNERED DOOR FRAME, GASKETED	
C4	24" VANITY SCOFFCE LED	120/277	WALL	LED 1300 LUM MIN	4000K	DIMMING 0-10V (10%)	20 VA	ACRYLIC, FROSTED LENS	LITHONIA #FW/COL SERIES ELITE OVL4-LED-24 SERIES OR APPROVED EQUAL	CYLINDER VANITY FIXTURE WITH BRUSHED NICKEL HOUSING	
D6	6" ROUND DOWNLIGHT	120/277	RECESSED GYP-BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 1500 LUM MIN	4000K	DIMMING 0-10V (1%)	25 VA	SEMI-SPECULAR CLEAR	HALO COMMERCIAL HC6 SERIES PRESCOLITE LF6 SERIES LITHONIA LDN6 SERIES MAXILUME HH6-LED SERIES	PRE-PAINTED WHITE ALUMINUM HOUSING, PWR-WIRED J-BOX, TWO 27" HANGER BARS	
D7	6" ROUND DOWNLIGHT - WET LOCATION	120/277	RECESSED GYP-BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 1500 LUM MIN	4000K	DIMMING 0-10V (1%)	25 VA	SEMI-SPECULAR CLEAR	HALO COMMERCIAL HC6 SERIES PRESCOLITE LF6 SERIES LITHONIA LDN6 SERIES MAXILUME HH6-LED SERIES	PRE-PAINTED WHITE ALUMINUM HOUSING, PWR-WIRED J-BOX, TWO 27" HANGER BARS, IP66	
E3	EXIT SIGN, SINGLE FACE, DIECAST, AC ONLY	120/277	RECESSED	LED	RED	N/A	5 VA	RED LETTERS	ISOLITE LPDC SERIES DUAL LITE SE SERIES LITHONIA LOC SERIES EMERG-LITE PRECEPTOR SERIES	WHITE FINISH, DIE-CAST ALUMINUM CONSTRUCTION, UNIVERSAL FACEPLATE KIT, MOUNTING PER FLOOR PLAN, AC ONLY UL924	
E4	EXIT SIGN, DOUBLE FACE, DIECAST, AC ONLY	120/277	RECESSED	LED	RED	N/A	5 VA	RED LETTERS	ISOLITE LPDC SERIES DUAL LITE SE SERIES LITHONIA LOC SERIES EMERG-LITE PRECEPTOR SERIES	WHITE FINISH, DIE-CAST ALUMINUM CONSTRUCTION, UNIVERSAL FACEPLATE KIT, MOUNTING PER FLOOR PLAN, AC ONLY UL924	
L5	4" X 6" RECESSED LINEAR	120/277	LAY-IN GRID INVERTED TEE	LED 250 LUM/FT	4000K	DIMMING 0-10V (10%)	20 VA/FT	FLUSH, SNAP-IN SATIN LENS	NULITE R4 SERIES AXIS BEAM 4 SERIES MARK SL4L SERIES LITECONTROL MOD SERIES	CONTINUOUS WHITE ALUMINUM HOUSING	
U2	2" UNDER CABINET LIGHT	120/277	UNDER CABINET	LED 800 LUM MIN	4000K	NON-DIMMING	9 VA	LAY-IN PRISMATIC	FAIL-SAFE UCL SERIES HALO HU10 SERIES HEALTHCARE SPECTRA-SF SERIES WILLIAMS 1SF SERIES RAYON RULB SERIES	SOLID FRONT, WHITE FINISHED.	
U3	3" UNDER CABINET LIGHT	120/277	UNDER CABINET	LED 1200 LUM MIN	4000K	NON-DIMMING	19 VA	LAY-IN PRISMATIC	FAIL-SAFE UCL SERIES HALO HU10 SERIES HEALTHCARE SPECTRA-SF SERIES WILLIAMS 1SF SERIES RAYON RULB SERIES	SOLID FRONT, WHITE FINISHED.	
U4	4" UNDER CABINET LIGHT	120/277	UNDER CABINET	LED 1600 LUM MIN	4000K	NON-DIMMING	31 VA	LAY-IN PRISMATIC	FAIL-SAFE UCL SERIES HALO HU10 SERIES HEALTHCARE SPECTRA-SF SERIES WILLIAMS 1SF SERIES RAYON RULB SERIES	SOLID FRONT, WHITE FINISHED.	

GENERAL ELECTRICAL NOTES:

A. REFER TO SPECIFICATION SECTIONS 265100 AND 265600 FOR LIGHT FIXTURE REQUIREMENTS.

B. BRING CONFLICTS BETWEEN THE MANUFACTURER'S CATALOG NUMBER AND DESCRIPTIONS TO THE ATTENTION OF THE ENGINEER.

C. LIGHT SOURCE SHALL HAVE COLOR TEMPERATURE 3500K WITH MINIMUM CRI OF 90 UNLESS OTHERWISE NOTED.

D. UNLESS A SPECIFIC CATALOG NUMBER OR SERIES IS NAMED, THE MANUFACTURER'S NAMED ALTERNATES MUST SUBMIT CATALOG CUT SHEETS AND IES FORMATTED PHOTOMETRIC REPORT TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID DATE. THE ENGINEER MAY REQUEST SAMPLE OF LUMINAIRE TO BE SUPPLIED.

E. MINIMUM LUMENS LISTED FOR LIGHT FIXTURES ARE DELIVERED LUMENS BASED ON PHOTOMETRIC TESTING COMPLETED IN ACCORDANCE WITH IES LM-79 STANDARDS.

F. SUBSTITUTE LIGHT FIXTURE IS SUBJECT TO ARCHITECT/ENGINEER APPROVAL.

NOTES:

1. ALL A1 LIGHT FIXTURES IN LAB AREAS WILL HAVE DOUBLE GASKETING.

LIGHTING CONTROL DEVICE SCHEDULE		
DEVICE TYPE	LIGHTING DEVICE DESCRIPTION	LIGHTING DEVICE OPERATION
COS1S	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR TO WORK WITH LIGHTING CONTROL SYSTEM AND TO BE COMPATIBLE WITH DIMMER D1S.	DUAL TECHNOLOGY TO CONTROL DIMMER SWITCH D1S OR TO BE OVERRIDE CONTROL FOR LIGHTING CONTROL SYSTEM. TIME OUT AT 30 MINUTES.
D1	STANDARD 0-10V DIMMER SWITCH.	0-10V DIMMING. DIMMER TO BE CAPABLE OF DIMMING TO 1%.
D1S	0-10V DIMMER SWITCH. DIMMER TO WORK WITH CEILING MOUNTED SENSOR COS1S.	0-10V DIMMING. DIMMER TO BE CAPABLE OF DIMMING TO 1%. DIMMER TO WORK WITH CEILING MOUNTED SENSOR COS1S.
D3	STANDARD 3-WAY, 0-10V DIMMER SWITCH.	0-10V DIMMING. DIMMER TO BE CAPABLE OF DIMMING TO 1%.
OS	OCCUPANCY SENSOR SWITCH	AUTOMATIC ON/AUTOMATIC OFF CONTROL
PB4D	FOUR BUTTON PROGRAMMABLE OVERRIDE SWITCH WITH DIMMING CAPABILITY. DIMMABLE TO 1%.	EACH BUTTON IS TO BE PRESET WITH LIGHTING LEVELS AS INDICATED ON THE OVERRIDE CONTROL SCHEDULE. DIMMER TO BE ABLE TO CONTROL ZONES INDEPENDENTLY.
S1	TOGGLE SWITCH	BASIC ON/OFF CONTROL
GENERAL NOTES: A. ALL LIGHTING CONTROLS NOT INDICATED AS STAND ALONE SHALL BE PART OF THE LIGHTING CONTROL SYSTEM. DOCUMENTS INDICATE CONTROL DEVICES, SEQUENCE OF OPERATION, AND OVERRIDE CONTROL LOCATIONS. CONTRACTOR SHALL PROVIDE ALL REQUIRED POWER PACKS, DIMMING POWER PACKS, BRIDGES, GATEWAYS, AND PROGRAMMING AS REQUIRED TO ACCOMPLISH THE CONTROL SEQUENCES INDICATED. NOT ALL PARTS AND PIECES ARE SHOWN ON PLAN. CONTRACTOR TO PROVIDE ALL PIECES THAT ARE REQUIRED. ELECTRICAL NOTES:		

LIGHTING CONTROL OVERRIDE SWITCH SCHEDULE								
OVERWRITE SWITCH NAME	SWITCH TYPE	ZONES CONTROLLED	OVERRIDE BUTTON CONTROL DESCRIPTION					NOTES
			BUTTON 1	BUTTON 2	BUTTON 3		BUTTON 4	
0R.01	PB4D	CONFERENCE ROOM	SWITCH LEG 'a'	SWITCH LEG 'b'	SWITCH LEG 'c'		NA	
0R.02	PB4D	CONFERENCE ROOM	SWITCH LEG 'a'	SWITCH LEG 'b'	SWITCH LEG 'c'		NA	
<u>GENERAL NOTES:</u> A. ALL LIGHTING CONTROLS NOT INDICATED AS STAND ALONE SHALL BE PART OF THE LIGHTING CONTROL SYSTEM. DOCUMENTS INDICATE CONTROL DEVICES, SEQUENCE OF OPERATION, AND OVERRIDE CONTROL LOCATIONS. CONTRACTOR SHALL PROVIDE ALL REQUIRED POWER PACKS, DIMMING POWER PACKS, BRIDGES, GATEWAYS, AND PROGRAMMING AS REQUIRED TO ACCOMPLISH THE CONTROL SEQUENCES INDICATED. NOT ALL PARTS AND PIECES ARE SHOWN ON PLAN. CONTRACTOR TO PROVIDE ALL PIECES THAT ARE REQUIRED. <u>ELECTRICAL NOTES:</u>								

FLOORBOX/POKE THRU SCHEDULE						
TYPE	MANUFACTURER	MODEL/SERIES	GENERAL DESCRIPTION	POWER DESCRIPTION	COMMUNICATIONS DESCRIPTION	NOTES
FB-1	WIREMOLD	OMNIBOX 880CS2-1	TWO-GANG BOX FOR ONE RECEPTACLE AND OE LOW VOLTAGE CONNECTION	ONE RECEPTACLE	ONE LOW VOLTAGE CONNECTION	1
GENERAL NOTES						
A. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.						
B. FLOOR BOX/POKE-THRU FURNISHED AND INSTALLED BY DIVISION 26, UNLESS NOTED OTHERWISE.						
NOTES:						
1. FLOOR BOX TO INSTALLED IN THE SLAB ON GRADE. COORDINATE SAWCUTTING WITH GENERAL CONTRACTOR AND OWNER.						

[illegible]

PROJECT NUMBER: 0425232-000-00

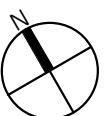
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LIGHT FIXTURE AND ELECTRICAL SCHEDULES



E600