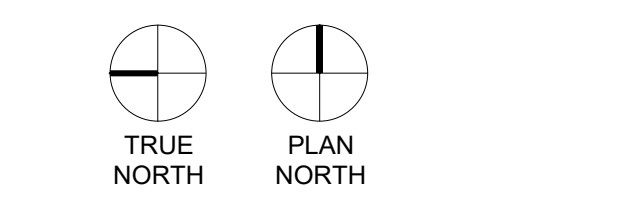


- SHEET NOTES**
- A. "RB" AS IN "RB-1" INDICATES A RELAY CONTROL CIRCUIT FED FROM LIGHTING CONTROL PANEL LCPB UNLESS OTHERWISE INDICATED. REFER TO LIGHTING CONTROL PANEL SCHEDULE FOR CIRCUIT AND CONTROL INFORMATION.
  - B. SERVE ALL 480/277 VOLT, NORMAL BRANCH CIRCUITS "NF" FROM PANEL "BNHA", UNLESS OTHERWISE INDICATED.
  - C. SERVE ALL 480/277 VOLT, ARTICLE 700 EMERGENCY BRANCH CIRCUITS "EH" FROM PANEL "BUNHA", UNLESS OTHERWISE INDICATED.
  - D. NOT USED.
  - E. SERVE ALL 480/277 VOLT, ARTICLE 702 OPTIONAL STANDBY BRANCH CIRCUITS "OH" FROM PANEL "BOSBHA", UNLESS OTHERWISE INDICATED.
  - F. SERVE ALL 208/120 VOLT, NORMAL BRANCH CIRCUITS "NL" FROM PANEL "BNLA", UNLESS OTHERWISE INDICATED.
  - G. SERVE ALL 208/120 VOLT, ARTICLE 700 EMERGENCY BRANCH CIRCUITS "EL" FROM PANEL "BUNLA", UNLESS OTHERWISE INDICATED.
  - H. NOT USED.
  - I. SERVE ALL 208/120 VOLT, ARTICLE 702 OPTIONAL STANDBY BRANCH CIRCUITS "OL" FROM PANEL "BOSLA", UNLESS OTHERWISE INDICATED.
  - J. WIRE SIZE SERVING 277V POWER TO SITE LIGHTING SHALL BE #8 MINIMUM IN 3/4" CONDUIT DUE TO VOLTAGE DROP REQUIREMENTS.

- KEYNOTES**
- 1. GMTS TO BE MOUNTED IN MANUAL TRANSFER SWITCH "MTS".
  - 2. EXISTING GENERATOR SERVING VAN MALE BUILDING TO BE RELOCATED AS PART OF ANOTHER PROJECT.
  - 3. EC PROVIDE TO (2) 2" DIRECT BURIED PVC CONDUITS WITH PULL STRINGS TO FUTURE CAR CHARGING STATION. CAP EACH CONDUIT WATER TIGHT AND LABEL FOR FUTURE EXTENSION TO CHARGING STATION. ROUTE CONDUITS BACK TO PULL BOX IN ELECTRICAL ROOM - LL03. PROVIDE A PULLING HANDLE BETWEEN PATHWAY FROM BUILDING TO CHARGING LOCATION AFTER 270 DEGREES OF CONDUIT BENDS HAVE BEEN MADE. FIELD VERIFY EXACT LOCATION WITH OWNER AND GC PRIOR TO INSTALLATION.
  - 4. NOT USED.
  - 5. MOUNT TYPE OH RECESSED IN CONCRETE PLANTER WALL SUCH THAT CENTER OF FIXTURE IS 18" AFG, TYP. COORDINATE INSTALLATION WITH ASSOCIATED TRADES.
  - 6. MOUNT TYPE OK 18" ON CENTER IN METAL HANDRAIL, BY OTHERS, TYP. PROVIDE QUARTZITE BOX IN LANDSCAPE BED AND LOCATE REMOTE DRIVERS IN QUARTZITE BOX WITHIN MANUFACTURER'S RECOMMENDED DISTANCE. COORDINATE INSTALLATION WITH ASSOCIATED TRADES.
  - 7. WALL MOUNT TYPE OD AROUND GENERATOR ENCLOSURE AND MTS. MOUNT 12" BELOW TOP OF WALL TO CENTER OF FIXTURE, TYP.
  - 8. MOUNT RECEPTACLE RECESSED IN CONCRETE PLANTER WALL SUCH THAT CENTER OF RECEPTACLE IS 18" AFG, TYP. COORDINATE INSTALLATION WITH ASSOCIATED TRADES.

1 ELECTRICAL SITE PLAN  
1" = 30'-0"



Revisions  
12/2/2025 ADDENDUM #1

BID DOCUMENTS

SCOPE DOCUMENTS

Drawing Date  
08.11.2025

SULLIVAN SCHOOL OF BUSINESS & TECHNOLOGY

245 N. BARSTOW ST.  
WAUKESHA, WI 53186

Project No. CARROLL UNIVERSITY  
220253.00

Sheet Title  
ELECTRICAL SITE PLAN

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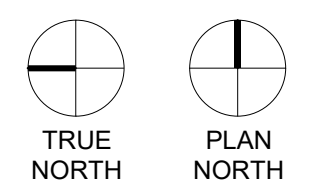
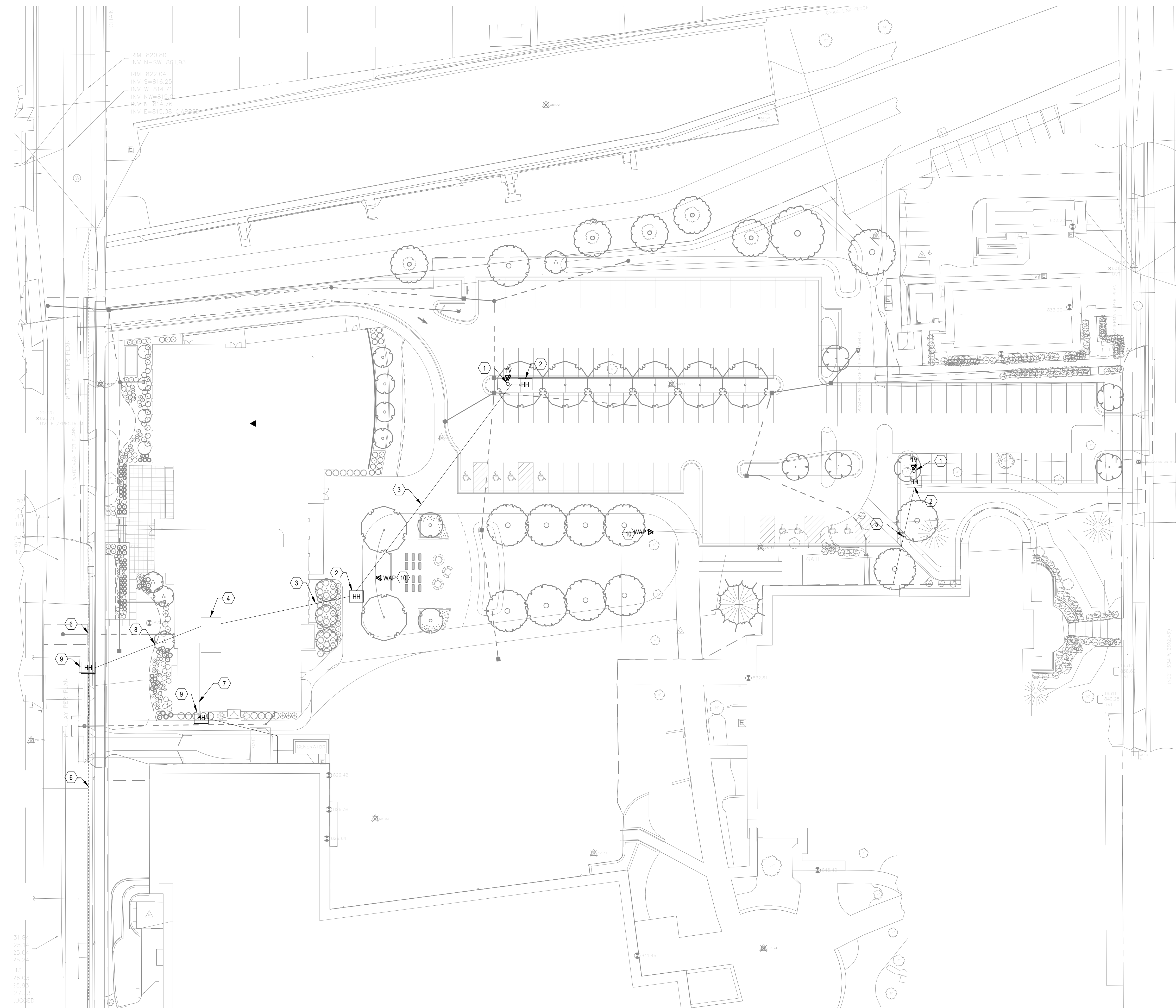
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E191

KEYNOTES

1. PROVIDE NEW PEDESTAL BLUE LIGHT EMERGENCY PHONE (RAMTEL P/N: PLC 8A-LED).
2. PROVIDE A 30" X 48" X 24" DEEP HAND HOLE DEDICATED TO SECURITY AND COMMUNICATIONS CABLING.
3. (1) 1" CONDUIT DEDICATED TO SECURITY COMMUNICATIONS CABLING.
4. APPROXIMATE LOCATION OF MIR BUILDING LOCATED IN BASEMENT.
5. ROUTE CABLING BACK TO EXISTING TELECOM ROOM LOCATED IN HUMPREY BUILDING.
6. EXISTING COMMUNICATIONS CONDUIT DUCT BANK ROUTED DOWN BARSTOW STREET.
7. PROVIDE (2) 4" CONDUITS ROUTED BETWEEN VAN MALE BUILDING AND NEW BUSINESS BUILDING DEDICATED TO COMMUNICATIONS BACKBONE CABLING. ROUTE CONDUITS DOWN THE EXTERIOR OF VANMALE TO BELOW GRADE INTO NEW BUILDING.
8. PROVIDE (2) 4" CONDUITS ROUTED BETWEEN NEW HANDHOLE AND NEW MIR ROOM.
9. PROVIDE A 30" X 48" X 24" DEEP HAND HOLE DEDICATED TO CONNECTING NEW BUILDING TO CONDUIT DUCT BANK. COORDINATE INSTALLATION WITH EXISTING CONDUIT DUCT BANK.
10. DATA OUTLET DEDICATED TO EXTERIOR POLE MOUNTED WIRELESS ACCESS POINT. PROVIDE 1" CONDUIT ROUTED BACK TO NEAREST HANDHOLE. COORDINATE ROUGH-IN WITH OWNER AND LIGHTING POLE VENDOR PRIOR TO INSTALLATION.

SHEET NOTES

- A. REFER TO ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR LOCATIONS AND MOUNTING HEIGHTS OF ALL ELECTRICAL SYSTEM DEVICES PRIOR TO COMMENCING INSTALLATION.
- B. ALL RELATED INFRASTRUCTURE (CONDUIT, BACKBOXES (SEE SHEET AV002 FOR STANDARD BOX SCHEDULE), CABLE, POWER, DATA, ETC) WORK INDICATED ON THE AUDIO-VISUAL DRAWINGS SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK AND BID. PROVIDE DEVICES SHOWN ON BOTH THE ELECTRICAL AND AUDIO-VISUAL DRAWINGS TO ARRIVE AT THE TOTAL QUANTITY OF DEVICES REQUIRED.
- C. AV PRESENTATION EQUIPMENT EXISTS IN THE AREAROOM. ALL RELATED INFRASTRUCTURE (CONDUIT, BACKBOXES (SEE SHEET AV002 FOR STANDARD BOX SCHEDULE), CABLE, POWER, ETC) ARE DETAILED IN THE AV PLANS AND ARE "IN ADDITION" TO THE DEVICE SYMBOLS SHOWN ON THIS SHEET. COUNT DEVICES SYMBOLS ON BOTH PLAN SETS TO ARRIVE AT THE TOTAL QUANTITIES OF DEVICES REQUIRED FOR ESTIMATING PURPOSES.
- D. ROUTE ALL DATA CABLING DOWN TO BASEMENT MIR FOR TERMINATION.
- E. INSTALL ALL COMMUNICATIONS CABLING IN CONDUIT IN OPEN/EXPOSED & INACCESSIBLE CEILING AREAS AND UTILIZE CABLE TRAY OR J-HOOK SUPPORTS ABOVE ACCESSIBLE LAY-IN TILE CEILING SPACES. REFER TO THE SPECIFICATIONS FOR THE SUPPORT REQUIREMENTS.
- F. DO NOT EXCEED 180° TOTAL BENDS OF CONDUIT ROUTING BETWEEN HAND HOLES, PULL BOXES AND/OR JUNCTION BOXES.
- G. CONCRETE ENCASE INCOMING SERVICE DUCT BANKS BELOW PAVED SURFACES.



Revisions

BID DOCUMENTS

SCOPE DOCUMENTS

Drawing Date  
08.11.2025

SULLIVAN SCHOOL OF BUSINESS & TECHNOLOGY

245 N. BARSTOW ST.  
WAUKESHA, WI 53186

Project No. CARROLL UNIVERSITY  
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Sheet Title  
TELECOMMUNICATIONS SITE PLAN

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Sheet No.  
E192

1 TELECOMMUNICATIONS SITE PLAN  
1" = 30'-0"

SEQUENCE OF OPERATIONS

GENERAL NOTES:

- REFER TO PLANS FOR APPLICATION OF SEQUENCE OF OPERATIONS (SOR) PER ROOM TYPES. PROVIDE DEVICES TO SUPPORT THE SOR.
- IN SPACES THAT DO NOT HAVE A SOR APPLIED, REFER TO PLANS AND SCHEDULES TO IDENTIFY CONTROLS APPLICATION. PROVIDE DEVICES TO SUPPORT THE APPLICATION.
- WHERE INDICATED ON PLAN PROVIDE INTERFACE FOR CONNECTION TO MECHANICAL VAV BOXES. STATUS OF LIGHTING SHALL NOT AFFECT OPEN/CLOSE OF INTERFACE TO HVAC SYSTEM.
- CONTROL EMERGENCY FED LIGHTING FIXTURES WITH NORMALLY FED FIXTURES. UTILIZE UL204 LISTED EMERGENCY CONTROL DEVICES TO FORCE EMERGENCY FED LIGHTING TO 100% OUTPUT TO ACHIEVE EGRESS ILLUMINATION REQUIREMENTS. REFER TO PLANS FOR DESIGNATED EMERGENCY FED FIXTURES.
- PROGRAM HIGH END TRIM OF EACH LIGHTING LOAD AT 80% OUTPUT AT THE ROOM / RELAY LEVEL. IDENTIFY IN PROGRAMMING MANUAL. ALL ZONES WITH HIGH END TRIM CAP AND METHOD FOR OWNER ADJUSTMENT AT FUTURE DATE.
- BUILDING OPERATING HOURS ARE 5AM - 11PM, 7 DAYS PER WEEK.

CONTROL STRATEGIES:

- SO#1**
- LIGHTING IS MANUAL ON FROM DIGITAL WALL SWITCH(DIMMER(S)). MANUAL CONTROL ALLOWS OCCUPANT ON/OFF, DIMMING, AND/OR SCENE PRESET CONTROL AS DESIGNED/SCHEDULED. AUTOMATIC SHUTOFF FROM VACANCY SENSORS AFTER 20 MINUTES OF NO ACTIVITY.
- SO#3**
- 50% OF LIGHTING IS AUTOMATIC ON FROM OCCUPANCY SENSORS. REMAINING 50% OF LIGHTING IS MANUAL ON FROM DIGITAL WALL SWITCH(DIMMER. MANUAL CONTROL ALLOWS OCCUPANT ON/OFF, DIMMING, AND/OR SCENE PRESET CONTROL (AS DESIGNED/SCHEDULED). AUTOMATIC SHUTOFF OF BOTH LIGHT ZONES FROM OCCUPANCY SENSORS AFTER 20 MINUTES OF NO ACTIVITY.
- SO#5**
- LIGHTING IS AUTOMATIC ON FROM OCCUPANCY SENSORS. MANUAL CONTROL ALLOWS OCCUPANT ON/OFF, DIMMING, AND/OR SCENE PRESET CONTROL (AS DESIGNED/SCHEDULED). AUTOMATIC SHUTOFF FROM OCCUPANCY SENSORS AFTER 20 MINUTES OF NO ACTIVITY.
- SO#6**
- LIGHTING IS AUTOMATIC ON FROM LIGHTING CONTROL PANEL. MANUAL CONTROL ALLOWS OCCUPANT ON/OFF, DIMMING, AND/OR SCENE PRESET CONTROL (AS DESIGNED/SCHEDULED). AUTOMATIC SCHEDULED SHUTOFF FROM LIGHTING CONTROL PANEL WITH 5-MINUTE BLINK WARNING.
- SO#D**
- LIGHTING IS AUTOMATIC ON FROM LIGHTING CONTROL PANEL. MANUAL CONTROL ALLOWS OCCUPANT ON/OFF, DIMMING, AND/OR SCENE PRESET CONTROL (AS DESIGNED/SCHEDULED). AUTOMATIC SCHEDULED SHUTOFF FROM LIGHTING CONTROL PANEL WITH 5-MINUTE BLINK WARNING.
  - UPON ACTIVATION OF LIGHTING (ON OR PRESET), AUTOMATIC DIMMING FROM DAYLIGHT SENSORS TAKES PRECEDENCE TO CONTROL FIXTURES IN DAYLIGHT ZONE. SENSORS PROVIDE CONTINUOUS DIMMING TO ACHIEVE DESIGNATED ILLUMINATION VALUES LISTED BELOW. DAYLIGHT SENSORS DO NOT TURN FIXTURES OFF WHEN LOW THRESHOLD IS REACHED. DAYLIGHT SENSOR ESTABLISHES HIGH TRIM. MANUAL DIMMING CAN CONTROL LIGHTS TO A LOWER DIMMED THRESHOLD OR OFF.
    - A. CORRIDORS: 15FC AT FLOOR PLANE
    - B. CLASSROOMS, CONFERENCE ROOMS: 30FC AT DESK HEIGHT.
- SO#8**
- LIGHTING IS MANUAL ON FROM LOW VOLTAGE WALL SWITCH(DIMMER(S)). MANUAL CONTROL ALLOWS OCCUPANT ON/OFF, DIMMING, AND/OR SCENE PRESET CONTROL (AS DESIGNED/SCHEDULED). AUTOMATIC SCHEDULED SHUTOFF FROM LIGHTING CONTROL PANEL WITH 5-MINUTE BLINK WARNING.
- SO#9**
- LIGHTING IS AUTOMATIC ON FROM PHOTOCELL AT DUSK. LCP TIMECLOCK TURNS RELAY OFF AT 12PM AND BACK ON AT 5AM. FINAL AUTOMATIC SHUTOFF FROM PHOTOCELL AT DAWN. THIS STRATEGY IS APPLIED 7 DAYS A WEEK.
- SO#11**
- LIGHTING IS AUTOMATIC ON FROM PHOTOCELL AT DUSK. AUTOMATIC SHUTOFF FROM PHOTOCELL AT DAWN. THIS STRATEGY IS APPLIED 7 DAYS A WEEK.
- SO#12**
- LIGHTING IS AUTOMATIC ON FROM ASTRONOMIC TIMECLOCK AT 1 HOUR PRIOR TO DUSK. AUTOMATIC SHUTOFF FROM TIMECLOCK AT 1 HOUR AFTER DAWN. THIS STRATEGY IS APPLIED 7 DAYS A WEEK.
- SO#14**
- LIGHTING IS AUTOMATIC ON FROM OCCUPANCY SENSORS. AUTOMATIC DIMMING TO 25% OUTPUT FROM OCCUPANCY SENSORS AFTER 20 MINUTES OF NO ACTIVITY. LIGHTS DO NOT TURN OFF FOR SAFETY REASONS.
- SO#15**
- LIGHTING IS MANUAL ON FROM DIGITAL WALL SWITCH(DIMMER(S)). MANUAL CONTROL ALLOWS OCCUPANT ON/OFF, DIMMING, AND/OR SCENE PRESET CONTROL AS DESIGNED/SCHEDULED. AUTOMATIC SHUTOFF FROM VACANCY SENSORS AFTER 20 MINUTES OF NO ACTIVITY.
  - INCLUDE SERIAL INTERFACE TO AV SYSTEM. PROGRAM INTERFACE TO ALLOW AV SYSTEM CONTROLS TO RECALL PROGRAMMED LIGHTING SCENE PRESETS. WHERE NOTED ON PLANS, INCLUDE PARTITION SENSOR. PROGRAM ROOMS WITH PARTITION SENSOR TO BEHAVE AS INDEPENDENT SPACES WHEN PARTITION IS CLOSED, AND TO BEHAVE AS A SINGLE ROOM WHEN PARTITION IS OPEN.
  - UPON ACTIVATION OF LIGHTING (ON OR PRESET), AUTOMATIC DIMMING FROM DAYLIGHT SENSORS TAKES PRECEDENCE TO CONTROL FIXTURES IN DAYLIGHT ZONE. SENSORS PROVIDE CONTINUOUS DIMMING TO ACHIEVE DESIGNATED ILLUMINATION VALUES LISTED BELOW. DAYLIGHT SENSORS DO NOT TURN FIXTURES OFF WHEN LOW THRESHOLD IS REACHED. DAYLIGHT SENSOR ESTABLISHES HIGH TRIM. MANUAL DIMMING CAN CONTROL LIGHTS TO A LOWER DIMMED THRESHOLD OR OFF.
    - A. CORRIDORS: 15FC AT FLOOR PLANE
    - B. CLASSROOMS, CONFERENCE ROOMS: 30FC AT DESK HEIGHT.
- SO#16**
- LIGHTING IS AUTOMATIC ON FROM LIGHTING CONTROL PANEL. MANUAL CONTROL ALLOWS OCCUPANT ON/OFF, DIMMING, AND/OR SCENE PRESET CONTROL (AS DESIGNED/SCHEDULED). AUTOMATIC SCHEDULED SHUTOFF FROM LIGHTING CONTROL PANEL WITH 5-MINUTE BLINK WARNING.
  - BETWEEN THE HOURS OF MIDNIGHT AND 5AM LIGHTING IS AUTOMATIC ON TO 50% OUTPUT FROM OCCUPANCY SENSORS. AUTOMATIC SHUTOFF FROM OCCUPANCY SENSORS AFTER 10 MINUTES OF NO ACTIVITY.
- SO#16D**
- LIGHTING IS MANUAL ON FROM DIGITAL WALL SWITCH(DIMMER(S)). MANUAL CONTROL ALLOWS OCCUPANT ON/OFF, DIMMING, AND/OR SCENE PRESET CONTROL AS DESIGNED/SCHEDULED. AUTOMATIC SHUTOFF FROM LIGHTING CONTROL PANEL AT MIDNIGHT.
  - BETWEEN THE HOURS OF MIDNIGHT AND 7AM LIGHTING IS AUTOMATIC ON TO 50% OUTPUT FROM OCCUPANCY SENSORS. AUTOMATIC SHUTOFF FROM OCCUPANCY SENSORS AFTER 10 MINUTES OF NO ACTIVITY.
  - UPON ACTIVATION OF LIGHTING (ON OR PRESET), AUTOMATIC DIMMING FROM DAYLIGHT SENSORS TAKES PRECEDENCE TO CONTROL FIXTURES IN DAYLIGHT ZONE. SENSORS PROVIDE CONTINUOUS DIMMING TO ACHIEVE DESIGNATED ILLUMINATION VALUES LISTED BELOW. DAYLIGHT SENSORS DO NOT TURN FIXTURES OFF WHEN LOW THRESHOLD IS REACHED. DAYLIGHT SENSOR ESTABLISHES HIGH TRIM. MANUAL DIMMING CAN CONTROL LIGHTS TO A LOWER DIMMED THRESHOLD OR OFF.
    - A. CORRIDORS: 15FC AT FLOOR PLANE
    - B. CLASSROOMS, CONFERENCE ROOMS: 30FC AT DESK HEIGHT.

LIGHTING POLE AND FIXTURE SCHEDULE

FIXT TYPE	LIGHT SOURCE	FIXT QTY	LUMINAIRE		WATTS	VOLT	DIST. TYPE	BUG RATING	ARM CONFIG	ARM LENGTH	POLE HEIGHT	POLE SHAPE	POLE WIDTH	POLE MATL	POLE FINISH	POLE COLOR	OPTIONS	MANUFACTURER	CATALOG SERIES	BASE DETAILS	SEE NOTES
			LUMEN OUTPUT	COLOR TEMP (K)																	
P1	LED	1	7850	3000	68	277	4	B1-U0-G2	-	-	21'-6"	RD	5"	AL	PPC	BLK	3.6	LITHONIA	DSX1LED-P2-30K-80CR-L4LG-MVOLT-PIR	1/E500	1
P2	LED	1	4200	3000	35	277	5	B2-U2-G2	-	-	12'	TPD	4"	AL	PPC	BLK		STERNBERG	PT-1521LEDPT-4-1L-30-T5-SV25A-BKT	2/E500	2
P4	LED	2	7850	3000	68	277	4	B1-U0-G2	180	-	21'-6"	RD	5"	AL	PPC	BLK	3.6	LITHONIA	DSX1LED-P2-30K-80CR-L4LG-MVOLT-PIR	1/E500	1
			7850		68												3.6				

NOTE:  
SEE SPECIFICATION SECTION 18510 FOR ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS". MANUFACTURERS LISTED AS ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.

ABBREVIATIONS:  
A = ANODIZED  
ALUM = ALUMINUM  
BLK = BLACK  
BZ = BRONZE  
CONC = CONCRETE  
CSTM = CUSTOM  
FG = FIBERGLASS  
P = PAINTED  
PPC = POLYESTER POWDER COAT  
STD = STANDARD  
STL = STEEL  
SQ = SQUARE  
SVR = SILVER  
RD = ROUND  
TPD = TAPERED  
WD = WOOD

OPTIONS:  
1 = PROVIDE WITH HOUSE SIDE SHIELD  
2 = PROVIDE WITH INTEGRAL PHOTO CELL  
3 = PROVIDE WITH INTEGRAL OCCUPANCY SENSOR  
4 = PROVIDE WITH VIBRATION DAMPER  
5 = PROVIDE WITH DUPLEX RECEPTACLE OPPOSITE OF HAND HOLE. RECEPTACLE SHALL INCLUDE CAST-IN-USE COVER IN FINISH MATCHING POLE  
6 = PROVIDE WITH 0-10V DIMMING DRIVER

LIGHTING POLE AND FIXTURE SCHEDULE GENERAL NOTES:

- EQUIVALENT MANUFACTURERS FOR TYPE P1 AND P4 ARE: CREE, GARCO, HUBBELL, LITHONIA, MCGRAW-EDISON
- REFER TO PLANS FOR ORIENTATION OF POLE.

LIGHTING POLE AND FIXTURE SCHEDULE NOTES:

- PROVIDE 21'-6" POLE WITH 2'-6" RAISED POLE BASE FOR MAXIMUM 24' HIGH POLE PER CITY MUNICIPAL REQUIREMENTS.
- PROVIDE STERNBERG LINCOLN SERIES POLE TO MOST CLOSELY MATCH DISCONTINUED CAMPUS STANDARD POLE. PROVIDE PART NUMBER 25-12-T54-125-BKT.

LOW VOLTAGE SWITCH STATION SCHEDULE

LCP PANEL	DESIGNATION	LOCATION	BUTTON	RELAYS CONTROLLED	DESCRIPTIONS	SEE NOTE
LCP1A	1.01	AUD. 120	2	RA-1 THROUGH RA-24	ON/OFF	1
	1.02	AUD. 120	2	RA-1 THROUGH RA-24	ON/OFF	1
	1.03	CONTROL 121	-	RA-1 THROUGH RA-24	TOUCHSCREEN	4
LCP1B LCP1 LCP2 LCP3	1.04	GREETER 101	-	LCP1B-1 THROUGH LCP1B-16 LCP1-1 THROUGH LCP1-24 LCP2-1 THROUGH LCP2-24 LCP3-1 THROUGH LCP3-24	TOUCHSCREEN	4
LCP1	1.05	HALL H102	2	R1-1 THROUGH R1-24	ON/OFF	1.3
	1.06	HALL H101	2	R1-1 THROUGH R1-24	ON/OFF	1.3
	1.07	HALL H101A	2	R1-1 THROUGH R1-24	ON/OFF	1.3
LCP2	2.01	LOUNGE 202	2	R2-1 THROUGH R2-24	ON/OFF	1.3
	2.02	LOUNGE 202	2	R2-1 THROUGH R2-24	ON/OFF	1.3
	2.03	LOUNGE 212	2	R2-1 THROUGH R2-24	ON/OFF	1.3
LCP3	3.01	STAIR W2	2	R3-3	ON/OFF	1.2
	3.02	SHELL	4	R3-17	ON/OFF	1.2
				R3-18	ON/OFF	1.2

LOW VOLTAGE SWITCH STATION GENERAL NOTES:

- REFER TO LIGHTING CONTROL PANEL SCHEDULE FOR MORE INFORMATION.
- CONFIRM ALL SCENES/GROUPS WITH ARCHITECT AND OWNER DURING ON SITE PROGRAMMING.
- DESCRIPTIONS ARE SUGGESTED BUTTON LABELS. OWNER TO CONFIRM SWITCH LABELS PRIOR TO ORDER RELEASE.

LOW VOLTAGE SWITCH STATION SCHEDULE NOTES:

- PROGRAM "ON" AS A PRESET SCENE, WHICH MAY INCLUDE MULTIPLE ZONES AND DIFFERENT DIMMED LEVELS OF THOSE ZONES.
- PROVIDE SWITCH CONFIGURATION THAT SUPPORTS RAISE/LOWER FUNCTION OF ZONE(S) CONTROLLED BY THIS BUTTON.
- PROVIDE ON-ONLY OPERATION DURING BUSINESS HOURS.
- PROVIDE MANUFACTURERS TOUCHSCREEN FOR MULTI-SCENE PRESET CONTROL AND INDIVIDUAL ZONE RAISE/LOWER FUNCTION. PROVIDE WATTS/TOPIER EQUIVANT 75 LCD TOUCHSCREEN. INCLUDE ALL PARTS AND ACCESSORIES FOR A COMPLETE OPERATING INSTALLATION INCLUDING BUT NOT LIMITED TO: INSTALLATION KIT, INFUSION CONTROLLER WITH POWER SUPPLY, DLM DATA INTERFACE, 120VAC TO 36VDC POWER SUPPLY, TOUCHSCREEN ENCLOSURE.

DISTRIBUTED LOW VOLTAGE SWITCH STATION SCHEDULE

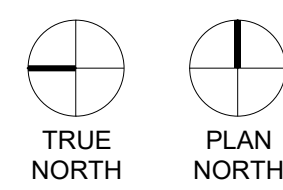
LOCATION	DESIGNATION	# POLE	ZONES CONTROLLED	DESCRIPTIONS	SEE NOTE
TECHNOLOGY 103	1.01	2	D-1 D-2	2-ZONE ON/OFF WITH RAISE/LOWER	2
CLASSROOM 110	1.02	2	D-3 & D-4 D-5 & D-6	2-ZONE ON/OFF WITH RAISE/LOWER	2.3
	1.03	1	D-7 & D-8	1-ZONE ON/OFF WITH RAISE/LOWER	
CLASSROOM 112	1.04	2	D-9 D-10	2-ZONE ON/OFF WITH RAISE/LOWER	2
	1.05	2	D-11 D-12	2-ZONE ON/OFF WITH RAISE/LOWER	
CLASSROOM 113	1.06	1	D-13	ON/OFF WITH RAISE/LOWER	2.4
	1.07	1	D-13	ON/OFF WITH RAISE/LOWER	
LARGE FLAT 116	1.08	2	D-15 D-16	2-ZONE ON/OFF WITH RAISE/LOWER	2.3,4
	1.09	1	D-17	1-ZONE ON/OFF WITH RAISE/LOWER	
LARGE FLAT 116	1.10	2	D-15 D-16	2-ZONE ON/OFF WITH RAISE/LOWER	2.3,4
	1.11	1	D-17	1-ZONE ON/OFF WITH RAISE/LOWER	
LARGE FLAT 117	1.10	2	D-18 D-19	2-ZONE ON/OFF WITH RAISE/LOWER	2.3,4
	1.11	1	D-20	1-ZONE ON/OFF WITH RAISE/LOWER	
	1.11	2	D-18 D-19	2-ZONE ON/OFF WITH RAISE/LOWER	
CLASSROOM 211	2.01	2	D-21 & D-22 D-23 & D-24	2-ZONE ON/OFF WITH RAISE/LOWER	2.3
	2.02	1	D-25 & D-26	1-ZONE ON/OFF WITH RAISE/LOWER	
CONFERENCE 213	2.03	2	D-21 THROUGH D-26	ON/OFF	2.3
	2.03	2	D-27 D-28	2-ZONE ON/OFF WITH RAISE/LOWER	
CLASSROOM 214	2.04	2	D-29 D-30	2-ZONE ON/OFF WITH RAISE/LOWER	2
	2.05	2	D-31 D-32	2-ZONE ON/OFF WITH RAISE/LOWER	
ENGINEERING 215	2.06	2	D-34 & D34	ON/OFF	2
	2.06	2	D-33 D-34	2-ZONE ON/OFF WITH RAISE/LOWER	
CLASSROOM 224	2.07	2	D-35 D-36	2-ZONE ON/OFF WITH RAISE/LOWER	2
	2.08	2	D-37 D-38	2-ZONE ON/OFF WITH RAISE/LOWER	
CLASSROOM 309	3.01	2	D-37 & D-38 D-39 & D-40	2-ZONE ON/OFF WITH RAISE/LOWER	2.3
	3.02	1	D-41 & D-42	1-ZONE ON/OFF WITH RAISE/LOWER	
MULTIPURPOSE 312	3.03	2	D-37 THROUGH D-42	ON/OFF	2
	3.03	2	D-43 D-44 & D-45	2-ZONE ON/OFF WITH RAISE/LOWER	
CONFERENCE 337	3.04	2	D-46 D-47	2-ZONE ON/OFF WITH RAISE/LOWER	2
	3.05	1	D-48	ON/OFF WITH RAISE/LOWER	

DISTRIBUTED LOW VOLTAGE SWITCH STATION GENERAL NOTES:

- REFER TO DISTRIBUTED IN-ROOM CONTROL SCHEDULE FOR MORE INFORMATION.
- CONFIRM ALL SCENES/GROUPS WITH ARCHITECT AND OWNER DURING ON SITE PROGRAMMING.
- DESCRIPTIONS ARE SUGGESTED BUTTON LABELS. OWNER TO CONFIRM SWITCH LABELS PRIOR TO ORDER RELEASE.

DISTRIBUTED LOW VOLTAGE SWITCH STATION SCHEDULE NOTES:

- PROGRAM SWITCH BUTTON AS A PRESET SCENE, WHICH MAY INCLUDE MULTIPLE ZONES AND DIFFERENT DIMMED LEVELS OF THOSE ZONES.
- PROVIDE SWITCH CONFIGURATION THAT SUPPORTS RAISE/LOWER FUNCTION OF ZONE(S) CONTROLLED BY THIS BUTTON.
- PROVIDE 2-GANG BOX AT THIS LOCATION TO SUPPORT MULTIPLE SWITCHES.
- PROGRAM SWITCH SUCH THAT WHEN PARTITION SENSOR IS OPEN SWITCH CONTROLS ALL FIXTURE ZONES IN JOINED ROOM.



Revisions  
12/2/2025 ADDENDUM #1

BID DOCUMENTS

SCOPE DOCUMENTS

Drawing Date  
08.11.2025

SULLIVAN SCHOOL OF BUSINESS & TECHNOLOGY

245 N. BARSTOW ST.  
WAUKESHA, WI 53186

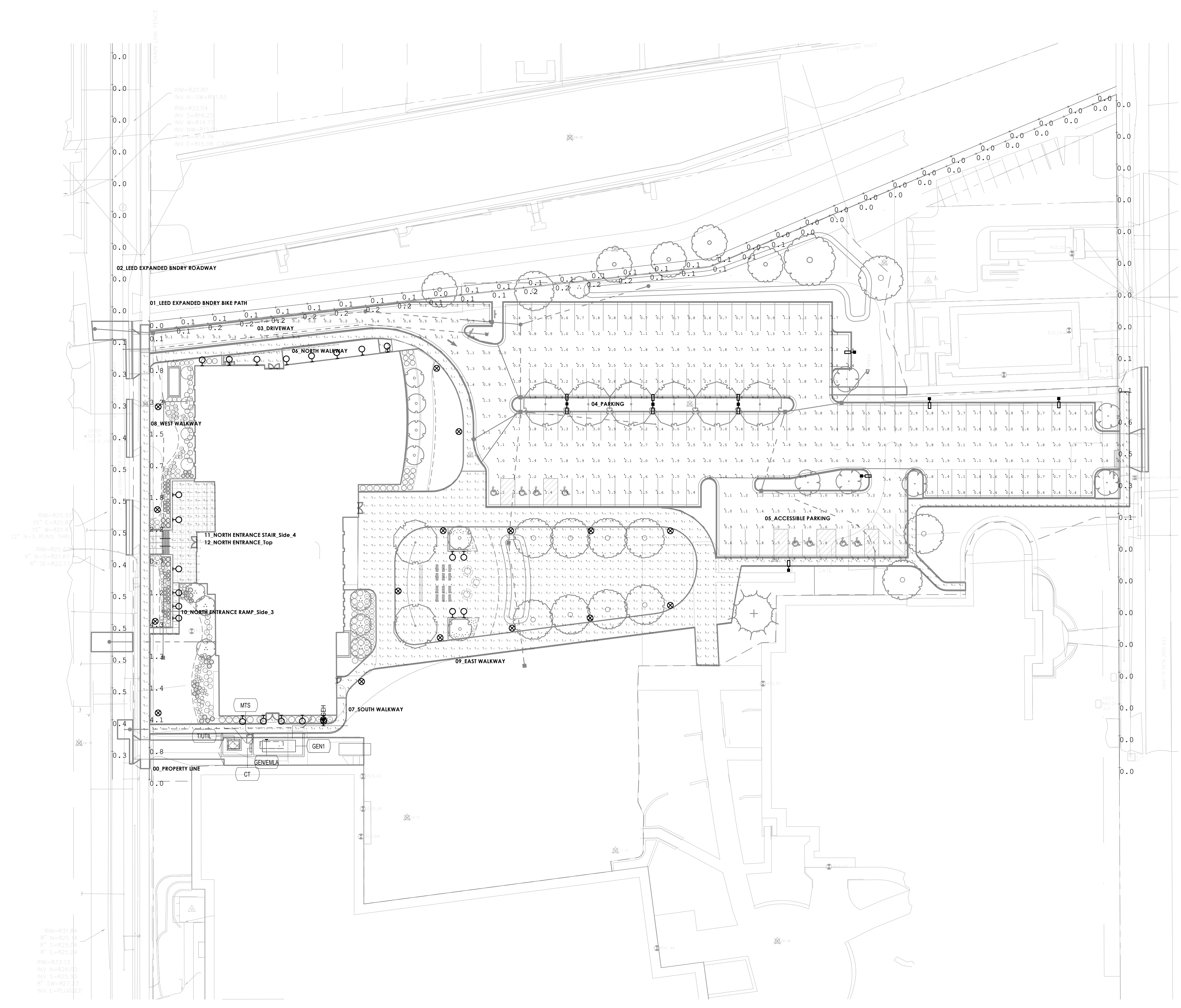
Project No. CARROLL UNIVERSITY  
220253.00

Sheet Title  
LIGHTING SCHEDULES

**SHEET NOTES**

A. THE RESULTS OF THIS STUDY ARE TO BE VIEWED ONLY AS AN INDICATION OF POSSIBLE PERFORMANCE. DUE TO VARIATIONS IN LED BOARDS, DRIVERS, MANUFACTURING, LINE VOLTAGE, AND SITE CONDITIONS, A GUARANTEED LEVEL OF PERFORMANCE IS NOT POSSIBLE AND IS NOT REPRESENTED BY THIS ANALYSIS.

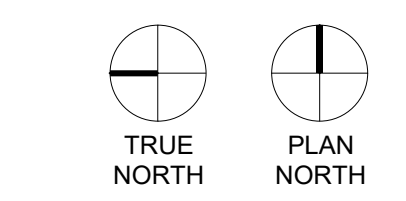
B. CALCULATION IS MODELED USING A LIGHT LOSS FACTOR OF 1.0 TO INDICATE INITIAL ILLUMINANCE VALUES.



1 ELECTRICAL SITE PLAN  
1" = 30'-0"

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
00. PROPERTY LINE	Illuminance	Fc	0.43	4.3	0.0	N.A.	N.A.
01. LEED EXPANDED BNDRY BIKE PATH	Illuminance	Fc	0.05	0.1	0.0	N.A.	N.A.
02. LEED EXPANDED BNDRY ROADWAY	Illuminance	Fc	0.24	0.5	0.0	N.A.	N.A.
03. DRIVEWAY	Illuminance	Fc	0.65	2.4	0.1	6.50	24.00
04. PARKING	Illuminance	Fc	1.81	4.6	0.4	4.53	11.50
05. ACCESSIBLE PARKING	Illuminance	Fc	1.48	3.8	0.2	7.40	19.00
06. NORTH WALKWAY	Illuminance	Fc	2.74	10.2	0.4	6.85	25.50
07. SOUTH WALKWAY	Illuminance	Fc	1.45	6.0	0.3	4.83	20.00
08. WEST WALKWAY	Illuminance	Fc	1.72	3.7	0.3	5.73	12.33
09. EAST WALKWAY	Illuminance	Fc	1.45	8.1	0.0	N.A.	N.A.
10. NORTH ENTRANCE RAMP, Side 3	Illuminance	Fc	6.40	14.8	1.0	6.40	14.80
11. NORTH ENTRANCE STAIR, Side 4	Illuminance	Fc	1.97	2.4	1.2	1.64	2.00
12. NORTH ENTRANCE, Top	Illuminance	Fc	2.36	12.5	0.4	5.90	31.25

NOT FOR CONSTRUCTION



Revisions

PERLIMINARY PLAN REVIEW

SCOPE DOCUMENTS

Drawing Date  
9.16.2024

SULLIVAN SCHOOL OF BUSINESS & TECHNOLOGY

245 N. BARSTOW ST.  
WAUKESHA, WI 53186

Project No. CARROLL UNIVERSITY  
220253.00

Sheet Title  
SITE LIGHTING PHOTOMETRICS PLAN

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Sheet No.  
E920

