DOCUMENT 00 90 00
ADDENDUM

ADDENDUM No.: 1
DATE: February 24, 2025
RE: WESTERN TECHNICAL COLLEGE
AUTOMOTIVE TECHNOLOGY CENTER ADDITION AND REMODEL
2721 LARSON ST
LA CROSSE, WISCONSIN 54603
PROJECT NO. 24061

FROM: HSR Associates, Inc
100 Milwaukee Street
La Crosse, WI 54603
(608) 784-1830

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated February 2025. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of: 3 pages, 0 documents, 0 sections, and 24 drawings.

CHANGES TO DRAWINGS

1. Sheet G000 COVERSHEET 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised the Index of Drawings for the changes included in this addendum.
2. Sheet ED02 1ST FL. DEMO PLAN – LIGHTING – AREA B 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
3. Sheet ED03 1ST FL. DEMO PLAN – POWER & LOW VOLT. – AREA A 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
4. Sheet ED04 1ST FL. DEMO PLAN – POWER & LOW VOLT. – AREA B 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
5. Sheet E101 1ST FL. ELECTRICAL LIGHTING PLAN – AREA A 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
6. Sheet E102 1ST FL. ELECTRICAL LIGHTING PLAN – AREA B 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.

7. Sheet E201 1ST FL. ELECTRICAL POWER PLAN – AREA A 30"x42"
    a. See the new sheet included in this addendum.
8. Sheet E202 1ST FL. ELECTRICAL POWER PLAN – AREA A 30"x42"
    a. See the new sheet included in this addendum.
9. Sheet E203 ROOF POWER PLAN – AREA A 30"x42"
    a. See the new sheet included in this addendum.
10. Sheet E204 ROOF POWER PLAN – AREA B 30"x42"
    a. See the new sheet included in this addendum.
11. Sheet E301 1ST FL. ELECTRICAL LOW VOLTAGE PLAN – AREA A 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
12. Sheet E302 1ST FL. ELECTRICAL LOW VOLTAGE PLAN – AREA B 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
13. Sheet E400 ELECTRICAL RISER PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
14. Sheet E401 ELECTRICAL DETAILS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
15. Sheet E500 ELECTRICAL PANELS SCHEDULES 30"x42"
    a. See the new sheet included in this addendum.
16. Sheet E600 ELECTRICAL LIGHTING CONTROLS 30"x42"
    a. See the new sheet included in this addendum.
17. Sheet E601 ELECTRICAL LIGHTING CONTROLS 30"x42"
    a. See the new sheet included in this addendum.
18. Sheet E602 ELECTRICAL LIGHTING CONTROLS 30"x42"
    a. See the new sheet included in this addendum.
19. Sheet E603 ELECTRICAL LIGHTING CONTROLS 30"x42"
    a. See the new sheet included in this addendum.
20. Sheet E604 ELECTRICAL LIGHTING CONTROLS 30"x42"
    a. See the new sheet included in this addendum.
21. Sheet E605 LIGHTING CONTROL PANELS 30"x42"
    a. See the new sheet included in this addendum.
22. Sheet E702 ELEC. FIXTURE SCHEDULE & CALC SUMMARY 30"x42"
    a. See the new sheet included in this addendum.
23. Sheet E705 ELEC. EGRESS FIXTURE SCHEDULE & CALC SUMMARY 30"x42"
    a. See the new sheet included in this addendum.

24. Sheet FA01 1ST FL. FIRE ALARM – AREA A 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
25. Sheet FA02 1ST FL. FIRE ALARM – AREA B 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.

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WESTERN TECHNICAL COLLEGE
AUTOMOTIVE TECHNOLOGY CENTER
2721 LARSON STREET
LA CROSSE, WISCONSIN

HSR# 24061 **FEBRUARY 2025** **BID SET**

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FA01	1ST FL. FIRE ALARM - AREA A
FA02	1ST FL. FIRE ALARM - AREA B

A01

A01

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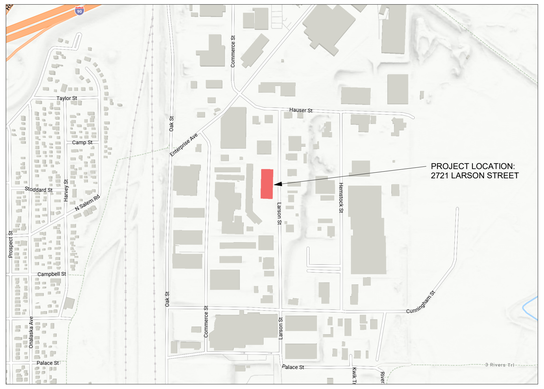
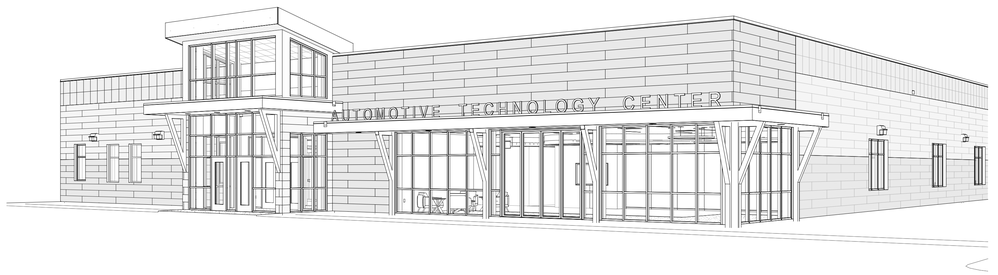


CITY MAP

SITE LOCATION MAP



ARCHITECTURE
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Project Title: WESTERN TECHNICAL COLLEGE
AUTOMOTIVE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: COVER SHEET

HSR Project Number: 24061

Project Date: FEB 2025

Drawn By: TBS / WF

Key Plan:

BID SET

Revisions:

No.	Description	Date
A01	ADD 01	2.24.2025

Graphic Scale:

Last Update: 2/24/2025 1:29:16 PM

G000

LIGHTING

RECESSED LED FIXTURE
SEE LIGHTING FIXTURE SCHEDULE
"A" INDICATES FIXTURE TYPE
"WG" INDICATES WIREGUARD PROTECTION

SURFACE LED FIXTURE
SEE LIGHTING FIXTURE SCHEDULE
"A" INDICATES FIXTURE TYPE
"WG" INDICATES WIREGUARD PROTECTION

WALL BRACKET LIGHTING FIXTURE
SEE LIGHTING FIXTURE SCHEDULE
"A" INDICATES FIXTURE TYPE

SURFACE-MOUNTED FIXTURE; SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MANUFACTURER
"A" INDICATES FIXTURE TYPE

PENDANT-MOUNTED LIGHTING FIXTURE
"A" INDICATES FIXTURE TYPE

RECESSED DOWNLIGHT-SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MANUFACTURER
"A" INDICATES FIXTURE TYPE

RECESSED WALL-WASH OR SPEED-LIGHTING FIXTURE, DIRECTION AS INDICATED BY ARROW
"A" INDICATES FIXTURE TYPE

WALL-MOUNTED FIXTURE-SEE FIXTURE SCHEDULE
"A" INDICATES FIXTURE TYPE

POLE MOUNTED LIGHT FIXTURE

LED STRIP FIXTURE
"A" INDICATES FIXTURE TYPE

TRACK LIGHTING FIXTURE WITH NUMBER OF FIXTURES INDICATED

LIGHTING FIXTURES ON EMERGENCY POWER SOURCE
"A" INDICATES FIXTURE TYPE
"N" INDICATES A FIXTURE IS TO BE ON ALL TIMES
"WG" INDICATES WIREGUARD PROTECTION

EMERGENCY LIGHTING UNIT WITH SELF-CONTAINED BATTERY AND HEADS AS INDICATED
WG = WIRE GUARD PROTECTED

CEILING MOUNTED EMERGENCY LIGHTING UNIT WITH SELF-CONTAINED BATTERY AND HEADS AS INDICATED
WG = WIRE GUARD PROTECTED

EMERGENCY LIGHTING UNIT, REMOTE HEAD

EXIT LIGHT FIXTURE, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED
WG = WIRE GUARD PROTECTED

COMBINATION EXIT LIGHT AND EMERGENCY LIGHTING UNIT

CEILING FAN

DISTRIBUTION EQUIPMENT

POWER DISTRIBUTION PANEL
BRANCH CIRCUIT PANELBOARD
ELECTRICAL METER SOCKET
TRANSFORMER, SIZE AS INDICATED
DISCONNECT SWITCH, NON-FUSED
DISCONNECT SWITCH, FUSED
MOTOR CONTROL CENTER
POWER/LIGHTING CONTACTOR

SWITCHES

WALL SWITCH, SINGLE POLE SINGLE THROW (SPST)
LETTER INDICATES SPECIAL FEATURE
1 = 1-WAY SWITCH
2 = 2-WAY SWITCH
DPST = DIMMER, POLE SINGLE THROW
D = DIMMER
H = HEATER
MS = MANUAL MOTOR STARTER
MCS = MAGNETIC CONTROL SWITCH
OS = OCCUPANCY SENSOR
SW = SURFACE-MOUNTED
3P = 3-WAY, 3-POLE, 3-PHASE
WALL SWITCH FOR LIGHTING CONTROL SYSTEM
# INDICATES NODE SWITCH ADDRESS AS SCHEDULED
CEILING MOUNTED OCCUPANCY SENSOR
OCCUPANCY SENSOR POWER PACK

MOTORS AND EQUIPMENT

MAGNETIC MOTOR STARTER
COMBINATION DISCONNECT SWITCH AND STARTER
MANUAL MOTOR SWITCH, 1Ø=PHASE WITH DUBILIBATS AND PILOT LIGHT
MOTOR
SEE POWER AND EQUIPMENT SCHEDULE
EQUIPMENT CONNECTION POINT
SEE POWER AND EQUIPMENT SCHEDULE

CONTROL DEVICES

CONTROL PANEL
TEMPERATURE CONTROL PANEL
TIME CLOCK
PHOTOCELL
THERMOSTAT
RELAY
DOOR BELL
BUZZER
PUSH BUTTON, REMOTE CONTROL STATION

SOUND SYSTEM

SPEAKER ONLY (WALL-MOUNTED)
SPEAKER ONLY (CEILING-MOUNTED)
INTERNET PROTOCOL SPEAKER (CEILING-MOUNTED)
ANALOG SPEAKER (CEILING-MOUNTED)
LOUD SPEAKER
MICROPHONE JACK
FLOOR-MOUNTED MICROPHONE JACK
VOLUME CONTROLS
SOUND SYSTEM CONSOLE
SOUND SYSTEM CONTROL PANEL WITH AMPLIFIER
SPEAKER FLASHER

RACEWAY

NEUTRAL CONDUCTOR (TYP.)
POWER CONDUCTOR (TYP.)
BRANCH CIRCUIT CARRYING SWITCHED CONDUCTORS
BRANCH CIRCUIT WITHOUT SWITCHED CONDUCTORS
LOW VOLTAGE CIRCUIT
GROUND OR NEUTRAL CONNECTION
"G" INDICATES
JUNCTION BOX
UNDERFLOOR DUCT AND JUNCTION BOX
EMPTY OUTLET BOX WITH BLANK COVER PLATE, SIZE AND TYPE AS INDICATED
HOME RUN TO PANEL "L" CIRCUIT #2
(1)# RELAY AT PL LIGHTING CONTROL PANEL "L" CIRCUIT # (SWITCHED LEG)
HOME RUN DIRECTLY TO PANEL "L" CIRCUIT #3
CONDUIT ROUTED ABOVE GROUND SIZE AND TYPE AS INDICATED
CONDUIT ROUTED BELOW GROUND OR FLOOR SLAB SIZE AND TYPE AS INDICATED
CONDUIT TURNED UP
CONDUIT TURNED DOWN
CABLE TRAY
BUS DUCT
INDICATES AMPACITY
CONDUIT SEAL-OFF
BOLT ON RIGHANGLE CONDUIT TO SURFACE MOUNTED JUNCTION BOX OR OUTLET BOX; SIZE AS REQUIRED FOR CONDUIT MATERIAL

RECEPTACLES

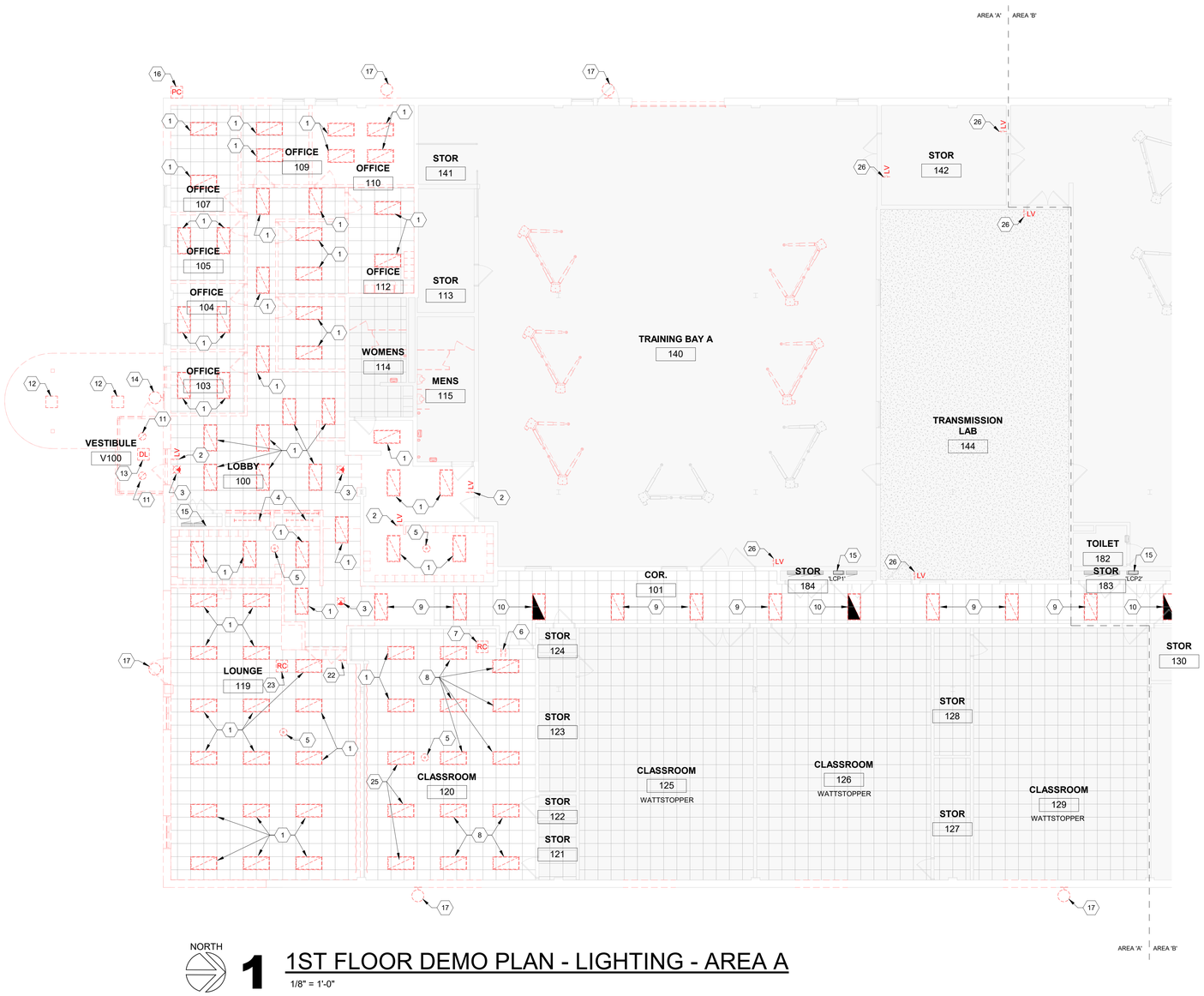
DUPLEX RECEPTACLE WITH 3-WIRE GROUNDING
SPECIAL PURPOSE DUPLEX RECEPTACLE; LETTERS INDICATE SPECIAL FUNCTION; + CIRCUIT RECEIPT AS INDICATED
AC = ABOVE COUNTER MOUNTING HEIGHT
GFCI = GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION
GFPE = RECEPTACLE IS IN GFCI AND FAULT INTERRUPTION (GFI) PROTECTION
WP = WEATHERPROOF
SC = SHOWCASE
MH = MOUNTING HEIGHT
O = OUTDOOR
E = EMERGENCY "BOT" COLOR
FOUR-PLEX (DOUBLE DUPLEX) RECEPTACLE
SINGLE RECEPTACLE
THREE-WIRE RECEPTACLE
HALF-SWITCHED RECEPTACLE
FLOOR MOUNTED RECEPTACLE
FLOOR MOUNTED DUPLEX RECEPTACLE W/ POKE-THRU DATA RECEPTACLES
SPECIAL PURPOSE OUTLET, TYPE AS INDICATED
SURFACE-MOUNTED "PLUG MOLD" TYPE, MOUNTING HEIGHT & RECEPT LOCATIONS AS INDICATED
POWER POLE
CORD AND PLUG POWER CONNECTION
EQUIPMENT CONNECTION POINT
SEE MOTOR & EQUIPMENT SCHEDULE

DATA/COMMUNICATION EQUIP.

DATA/COMMUNICATION BOARD (TYP.)
3/4" THICK GRADE 'AC' PLYWOOD
HEIGHT AND WIDTH AS INDICATED.
TELECOMMUNICATIONS OUTLET
LETTER OR NUMBER INDICATES FUNCTION
FLOOR MOUNTED TELECOMMUNICATIONS OUTLET
LETTER OR NUMBER INDICATES FUNCTION
FLOOR MOUNTED DUPLEX RECEPTACLE W/ POKE-THRU DATA RECEPTACLES
TELEPHONE TERMINAL CABINET
CABLE TELEVISION TERMINAL CABINET (TTC)
CABLE TELEVISION TERMINAL CABINET (TTC)
TELEVISION OUTLET
CLOCK OUTLET
1Ø = DOUBLE FACE

SECURITY EQUIPMENT

CARD READER
CAMERA
D = DOME CAMERA
F = FIXED CAMERA
MONITOR
SECURITY SYSTEM KEY PAD
SECURITY SYSTEM INFRARED MOTION SENSOR
INTERCOM SYSTEM
SECURITY SYSTEM HAND BUTTON ACTIVATION SWITCH
SECURITY SYSTEM SAFE PROTECTION CONNECTION
SECURITY SYSTEM MONEY CLIP ACTIVATION SWITCH
PHOTOELECTRIC PRIVACY SENSOR
MAGNETIC DOOR CONTACT SWITCH
PANIC/EXIT TO EXIT
ELECTRIC STRIKE
BREAK GLASS SENSOR
MONITOR SENSOR



NORTH

1 1ST FLOOR DEMO PLAN - LIGHTING - AREA A

1/8" = 1'-0"

KEY NOTES - LIGHTING DEMO

1	DISCONNECT, REMOVE AND SALVAGE EXISTING LED LIGHTING FIXTURE FOR REINSTALLTION AS NOTED ON LIGHTING PLANS E101 OR E102. IT SHALL BE ALLOWED TO REUSE EXISTING CONDUIT, CONDUCTORS, JUNCTION BOXES, FITTINGS, STRAPS, FIXTURE WHIPS, ETC. REUSE BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE. ALL FIXTURES NOT REINSTALLED SHALL BE SALVAGED TO WTC FACILITY DEPARTMENT.
2	DISCONNECT, REMOVE AND DISPOSE OF EXISTING LOW-VOLTAGE PUSH-BUTTON LIGHTING CONTROL SWITCH CONNECTED TO EXISTING NEX-LIGHT LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE. A NEW LOW VOLTAGE REPLACEMENT SWITCH MAY BE INSTALLED AS NOTED ON LIGHTING PLANS E101 & E102. AND AS NOTED IN E600 LIGHTING CONTROL PLANS. THIS WORK SHALL BE INCLUDED IN THE BASE BID.
3	DISCONNECT, REMOVE AND DISPOSE OF EXISTING EXIT LIGHTING FIXTURE. IT SHALL BE ALLOWED TO REUSE EXISTING CONDUIT, JUNCTION BOXES, FITTINGS, STRAPS, FIXTURE WHIPS, WIRING, ETC.
4	DISCONNECT, REMOVE AND SALVAGE EXISTING LED STRIP LIGHT LIGHTING FIXTURE FOR RE-INSTALLATION AS NOTED ON SHEET E101 OR E102.
5	DISCONNECT, REMOVE AND DISPOSE OF EXISTING CEILING-MOUNTED OCCUPANCY SENSOR AND ASSOCIATED LOW VOLTAGE OR LINE VOLTAGE WIRING.
6	EXISTING 'WATTSTOPPER' DIMMING SWITCH TO REMAIN AS IS.
7	EXISTING 'WATTSTOPPER' ROOM CONTROLLER TO REMAIN AS IS.
8	EXISTING LED 2'X4' LAY-IN FIXTURE TO REMAIN AS IS.
9	EXISTING LED 2'X4' LAY-IN FIXTURE TO REMAIN AS IS, HOWEVER IT WILL BE REQUIRED TO TEMPORARILY SUPPORT FIXTURE ABOVE ACOUSTIC CEILING GRID. PLEASE NOTE A NEW ACOUSTIC CEILING GRID WILL BE INSTALLED IN THIS CORRIDOR.
10	EXISTING LED 2'X4' LAY-IN FIXTURE TO REMAIN AS IS, HOWEVER IT WILL BE REQUIRED TO TEMPORARILY SUPPORT FIXTURE ABOVE ACOUSTIC CEILING GRID. PLEASE NOTE A NEW ACOUSTIC CEILING GRID WILL BE INSTALLED IN THIS CORRIDOR. THIS FIXTURE INCLUDES AN EMERGENCY EGRESS BATTERY PACK.
11	DISCONNECT, REMOVE AND DISPOSE OF EXISTING RECESSED DOWN LIGHT. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
12	DISCONNECT, REMOVE AND DISPOSE OF EXISTING SURFACE MOUNTED LED LIGHTING FIXTURE. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
13	DISCONNECT, REMOVE AND DISPOSE OF EXISTING DAY-LIGHT SENSOR. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
14	DISCONNECT, REMOVE AND DISPOSE OF EXISTING EGRESS LIGHTING FIXTURE. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
15	DISCONNECT, REMOVE AND DISPOSE OF EXISTING NEX-LIGHT RELAY LIGHTING CONTROL PANEL. A NEW DIMMING n-LIGHT LIGHTING CONTROL PANEL SHALL BE INSTALLED AS A REPLACEMENT IN THE SAME LOCATION. REFER TO LIGHTING PLANS E101 OR E102 AND E600 LIGHTING CONTROL DRAWINGS. RECONNECT EXISTING SWITCH-LEG WIRING TO REMAIN AS REQUIRED IN NEW REPLACEMENT LIGHTING CONTROL PANEL. INCLUDE AS AN ALTERNATE BID.
16	DISCONNECT, REMOVE AND DISPOSE OF EXISTING PHOTOCELL CONNECTED TO EXISTING LIGHTING CONTROL PANEL 'LCP4'. REMOVE LOW VOLAGE WIRING BACK TO SOURCE. PLEASE NOTE A NEW PHOTOCELL SHALL BE INSTALLED FOR NEW LIGHTING CONTROL PANEL(S). INCLUDE AS AN ALTERNATE BID.
17	DISCONNECT, REMOVE AND DISPOSE OF EXISTING 'HID' EXTERIOR WALL PACK LIGHTING FIXTURE. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
18	EXISTING LED STRIP LIGHTING FIXTURE TO REMAIN AS IS, HOWEVER THE LIGHTING FIXTURES WILL NEED TO BE TURNED 90 DEGREES. EXISTING SWITCH-LEG WIRING TO REMAIN AS IS.
19	DISCONNECT, REMOVE AND SALVAGE EXISTING LED HIGH-BAY LIGHTING FIXTURE FOR RE-INSTALLATION AS NOTED ON LIGHTING PLANS E101 OR E102. REMOVE SWITCH-LEG WIRING BACK TO NEAREST JUNCTION BOX OR ADJACENT LIGHTING FIXTURE TO REMAIN.
20	EXISTING LED HIGH-BAY LIGHTING FIXTURE TO REMAIN AS IS, RE-WORK SWITCH-LEG WIRING AS REQUIRED FOR NEW REMODEL LAYOUT.
21	DISCONNECT, REMOVE AND DISPOSE OF EXISTING WALL-MOUNT OCCUPANCY SENSOR. REMOVE BRANCH-CIRCUIT AND SWITCH-LEG WIRING BACK TO NEAREST JUNCTION BOX.
22	DISCONNECT, REMOVE AND SALVAGE EXISTING 'WATTSTOPPER' DIMMING SWITCH TO WTC FACILITY DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
23	DISCONNECT, REMOVE AND SALVAGE EXISTING 'WATTSTOPPER' ROOM CONTROLLER TO WTC FACILITY DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
24	EXISTING LED STRIP LIGHTING FIXTURE TO REMAIN AS IS, HOWEVER IT WILL BE REQUIRED TO RE-WORK EXISTING SWITCH-LEG WIRING DUE TO REMODEL WORK.
25	IT MAY BE REQUIRED TO TEMPORARILY SUPPORT THIS LED LIGHTING FIXTURE ABOVE SUSPENDED ACOUSTIC CEILING DUE TO REMODEL WORK. AFTER CEILING REMODEL WORK IS COMPLETE REINSTALL LED FIXTURE TO MATCH ORIGINAL INSTALLATION.
26	DISCONNECT, REMOVE AND DISPOSE OF EXISTING LOW-VOLTAGE PUSH-BUTTON LIGHTING CONTROL SWITCH CONNECTED TO EXISTING NEX-LIGHT LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE. EXISTING LOW VOLTAGE SWITCH SHALL BE REPLACED WITH NEW AS NOTED ON LIGHTING PLANS E101 & E102, AND AS NOTED ON E600 LIGHTING CONTROL DRAWINGS. PLEASE NOTE FOUR (4) EXISING NEX-LIGHT RELAY LIGHTING CONTROL PANELS 'LCP1', 'LCP2', 'LCP3' & 'LCP4' SHALL BE REPLACED WITH NEW. THIS WORK SHALL BE INCLUDED AS AN ALTERNATE BID.

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Project Title:
WESTERN TECHNICAL COLLEGE
WTC VEHICLE TECHNOLOGY CENTER

Project Location:
2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title:
1ST FL. DEMO PLAN - LIGHTING - AREA A

HSR Project Number:
24061

Project Date:
FEB 2025

Drawn By:
PLP

Key Plan:

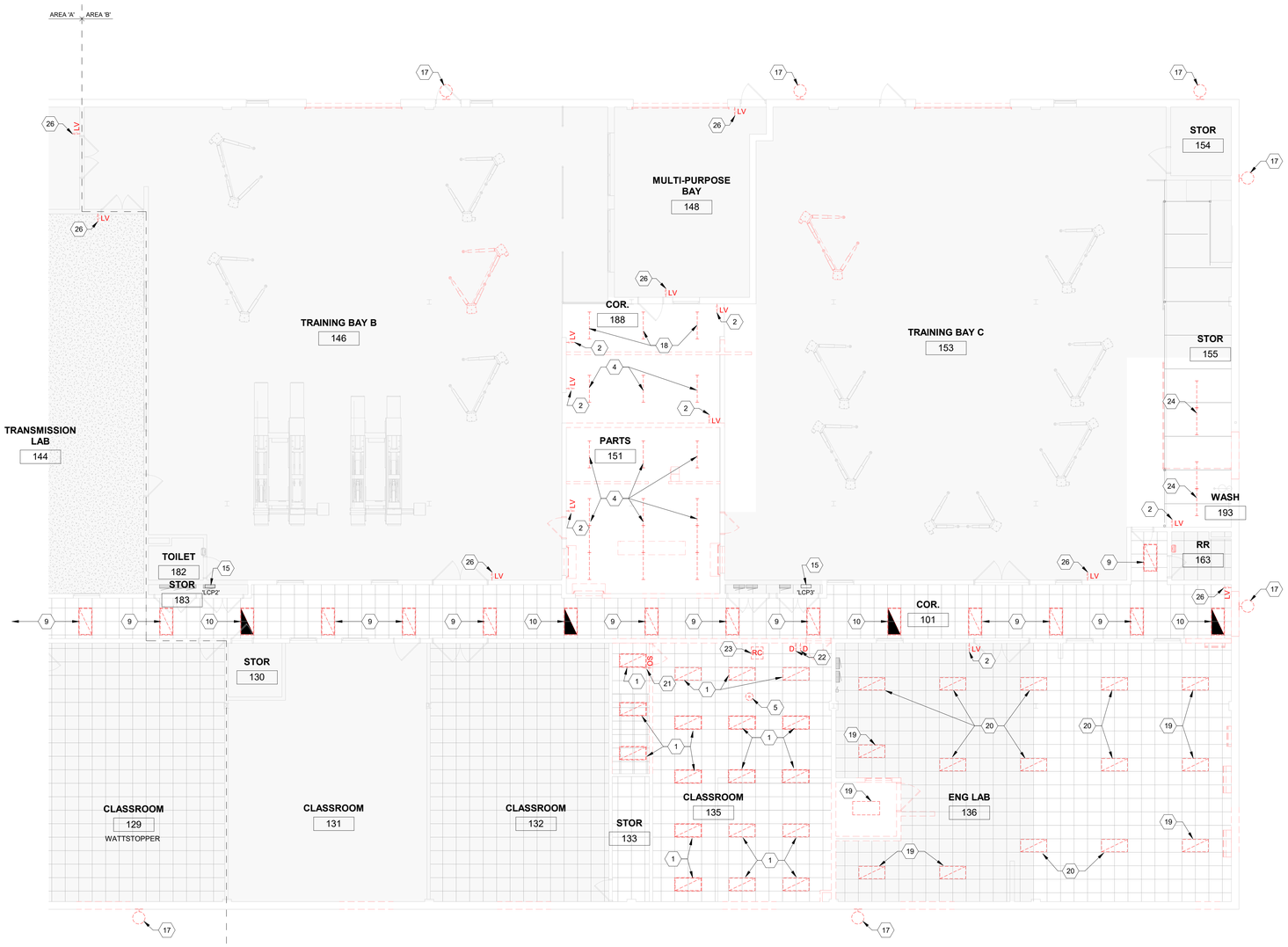
Revisions:

No.	Description	Date

Graphic Scale:
VARIES

Last Update:
2/24/2025 9:18:01 AM

ED01



NORTH

AREA 'A' AREA 'B'

1 1ST FLOOR DEMO PLAN - LIGHTING - AREA B

1/8" = 1'-0"

KEY NOTES - LIGHTING DEMO

1	DISCONNECT, REMOVE AND SALVAGE EXISTING LED LIGHTING FIXTURE FOR REINSTALLTION AS NOTED ON LIGHTING PLANS E101 OR E102. IT SHALL BE ALLOWED TO REUSE EXISTING CONDUIT, CONDUCTORS, JUNCTION BOXES, FITTINGS, STRAPS, FIXTURE WHIPS, ETC. REUSE BRANCH-CIRCUIT AND SWITCH-LEG WIRING TO THE EXTENT POSSIBLE. ALL FIXTURES NOT REINSTALLED SHALL BE SALVAGED TO WTC FACILITY DEPARTMENT.
2	DISCONNECT, REMOVE AND DISPOSE OF EXISTING LOW-VOLTAGE PUSH-BUTTON LIGHTING CONTROL SWITCH CONNECTED TO EXISTING NEX-LIGHT LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE. A NEW LOW VOLTAGE REPLACEMENT SWITCH MAY BE INSTALLED AS NOTED ON LIGHTING PLANS E101 & E102. AND AS NOTED IN E600 LIGHTING CONTROL PLANS. THIS WORK SHALL BE INCLUDED IN THE BASE BID.
3	DISCONNECT, REMOVE AND DISPOSE OF EXISTING EXIT LIGHTING FIXTURE. IT SHALL BE ALLOWED TO REUSE EXISTING CONDUIT, JUNCTION BOXES, FITTINGS, STRAPS, FIXTURE WHIPS, WIRING, ETC.
4	DISCONNECT, REMOVE AND SALVAGE EXISTING LED STRIP LIGHT LIGHTING FIXTURE FOR RE-INSTALLATION AS NOTED ON SHEET E101 OR E102.
5	DISCONNECT, REMOVE AND DISPOSE OF EXISTING CEILING-MOUNTED OCCUPANCY SENSOR AND ASSOCIATED LOW VOLTAGE OR LINE VOLTAGE WIRING.
6	EXISTING 'WATTSTOPPER' DIMMING SWITCH TO REMAIN AS IS.
7	EXISTING 'WATTSTOPPER' ROOM CONTROLLER TO REMAIN AS IS.
8	EXISTING LED 2'X4' LAY-IN FIXTURE TO REMAIN AS IS.
9	EXISTING LED 2'X4' LAY-IN FIXTURE TO REMAIN AS IS, HOWEVER IT WILL BE REQUIRED TO TEMPORARILY SUPPORT FIXTURE ABOVE ACOUSTIC CEILING GRID. PLEASE NOTE A NEW ACOUSTIC CEILING GRID WILL BE INSTALLED IN THIS CORRIDOR.
10	EXISTING LED 2'X4' LAY-IN FIXTURE TO REMAIN AS IS, HOWEVER IT WILL BE REQUIRED TO TEMPORARILY SUPPORT FIXTURE ABOVE ACOUSTIC CEILING GRID. PLEASE NOTE A NEW ACOUSTIC CEILING GRID WILL BE INSTALLED IN THIS CORRIDOR. THIS FIXTURE INCLUDES AN EMERGENCY EGRESS BATTERY PACK.
11	DISCONNECT, REMOVE AND DISPOSE OF EXISTING RECESSED DOWN LIGHT. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
12	DISCONNECT, REMOVE AND DISPOSE OF EXISTING SURFACE MOUNTED LED LIGHTING FIXTURE. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
13	DISCONNECT, REMOVE AND DISPOSE OF EXISTING DAY-LIGHT SENSOR. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
14	DISCONNECT, REMOVE AND DISPOSE OF EXISTING EGRESS LIGHTING FIXTURE. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
15	DISCONNECT, REMOVE AND DISPOSE OF EXISTING NEX-LIGHT RELAY LIGHTING CONTROL PANEL. A NEW DIMMING n-LIGHT LIGHTING CONTROL PANEL SHALL BE INSTALLED AS A REPLACEMENT IN THE SAME LOCATION. REFER TO LIGHTING PLANS E101 OR E102 AND E600 LIGHTING CONTROL DRAWINGS. RECONNECT EXISTING SWITCH-LEG WIRING TO REMAIN AS REQUIRED IN NEW REPLACEMENT LIGHTING CONTROL PANEL. INCLUDE AS AN ALTERNATE BID.
16	DISCONNECT, REMOVE AND DISPOSE OF EXISTING PHOTOCELL CONNECTED TO EXISTING LIGHTING CONTROL PANEL 'LCP4'. REMOVE LOW VOLAGE WIRING BACK TO SOURCE. PLEASE NOTE A NEW PHOTOCELL SHALL BE INSTALLED FOR NEW LIGHTING CONTROL PANEL(S). INCLUDE AS AN ALTERNATE BID.
17	DISCONNECT, REMOVE AND DISPOSE OF EXISTING 'HID' EXTERIOR WALL PACK LIGHTING FIXTURE. REMOVE SWITCH-LEG WIRING BACK TO SOURCE.
18	EXISTING LED STRIP LIGHTING FIXTURE TO REMAIN AS IS, HOWEVER THE LIGHTING FIXTURES WILL NEED TO BE TURNED 90 DEGREES. EXISTING SWITCH-LEG WIRING TO REMAIN AS IS.
19	DISCONNECT, REMOVE AND SALVAGE EXISTING LED HIGH-BAY LIGHTING FIXTURE FOR RE-INSTALLATION AS NOTED ON LIGHTING PLANS E101 OR E102. REMOVE SWITCH-LEG WIRING BACK TO NEAREST JUNCTION BOX OR ADJACENT LIGHTING FIXTURE TO REMAIN.
20	EXISTING LED HIGH-BAY LIGHTING FIXTURE TO REMAIN AS IS, RE-WORK SWITCH-LEG WIRING AS REQUIRED FOR NEW REMODEL LAYOUT.
21	DISCONNECT, REMOVE AND DISPOSE OF EXISTING WALL-MOUNT OCCUPANCY SENSOR. REMOVE BRANCH-CIRCUIT AND SWITCH-LEG WIRING BACK TO NEAREST JUNCTION BOX.
22	DISCONNECT, REMOVE AND SALVAGE EXISTING 'WATTSTOPPER' DIMMING SWITCH TO WTC FACILITY DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
23	DISCONNECT, REMOVE AND SALVAGE EXISTING 'WATTSTOPPER' ROOM CONTROLLER TO WTC FACILITY DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
24	EXISTING LED STRIP LIGHTING FIXTURE TO REMAIN AS IS, HOWEVER IT WILL BE REQUIRED TO RE-WORK EXISTING SWITCH-LEG WIRING DUE TO REMODEL WORK.
25	IT MAY BE REQUIRED TO TEMPORARILY SUPPORT THIS LED LIGHTING FIXTURE ABOVE SUSPENDED ACOUSTIC CEILING DUE TO REMODEL WORK. AFTER CEILING REMODEL WORK IS COMPLETE REINSTALL LED FIXTURE TO MATCH ORIGINAL INSTALLATION.
26	DISCONNECT, REMOVE AND DISPOSE OF EXISTING LOW-VOLTAGE PUSH-BUTTON LIGHTING CONTROL SWITCH CONNECTED TO EXISTING NEX-LIGHT LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE. EXISTING LOW VOLTAGE SWITCH SHALL BE REPLACED WITH NEW AS NOTED ON LIGHTING PLANS E101 & E102, AND AS NOTED ON E600 LIGHTING CONTROL DRAWINGS. PLEASE NOTE FOUR (4) EXISING NEX-LIGHT RELAY LIGHTING CONTROL PANELS 'LCP1', 'LCP2', 'LCP3' & 'LCP4' SHALL BE REPLACED WITH NEW. THIS WORK SHALL BE INCLUDED AS AN ALTERNATE BID.

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Project Title: WESTERN TECHNICAL COLLEGE
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
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Sheet Title: 1ST FL. DEMO PLAN - LIGHTING - AREA B

HSR Project Number: 24061

Project Date: FEB 2025

Drawn By: PLP

Key Plan:

Revisions:

No.	Description	Date

Graphic Scale: VARIES

Last Update: 2/24/2025 9:18:04 AM

ED02

KEY NOTES - POWER & LOW VOLTAGE...

Number	Description
1	DISCONNECT, REMOVE AND DISPOSE OF EXISTING DUPLEX RECEPTACLE(S). REUSE EXISTING BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. REUSE EXISTING CONDUIT AND JUNCTION BOXES TO THE EXTENT POSSIBLE FOR REMODEL WORK.
2	THIS WALL TO BE DEMOLISHED, DISCONNECT AND REMOVE ALL WIRING DEVICES AND ASSOCIATED CONDIT, JUNCTION BOXSES, ETC. REMOVE WIRING BACK TO SOURCE. TYPICAL.
3	DISCONNECT EXISTING PORTABLE FURNITURE WALL TO BE REMOVED BY OTHERS. REUSE EXISTING BRANCH-CIRCUIT WIRING, JUNCTION BOXES, CONDUIT, ETC. TO THE EXTENT POSSIBLE FOR REMODEL WORK.
4	DISCONNECT, REMOVE AND DISPOSE OF EXISTING DATA JACK(S). REMOVE LOW VOLTAGE CAT5E WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE. COORDINATE THOROUGHLY WITH WTC IT DEPARTMENT.
5	DISCONNECT, REMOVE AND DISPOSE OF EXISTING FIRE ALARM SYSTEM DEVICE. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
6	EXISTING FIRE ALARM ANNUNCIATOR PANEL TO REMAIN AS IS.
7	DISCONNECT, REMOVE AND DISPOSE OF EXISTING LOW VOLTAGE PUSH STATION FOR MOTORIZED DOOR OPENER, DISCONNECT ASSOCIATED DOOR OPERATOR FOR REMOVAL BY OTHERS.
8	DISCONNECT, REMOVE AND SALVAGE EXISTING 'LATHEM' CLOCK TO WTC PLANT FACILITY DEPARTMENT. PROVIDE A CUSTOM FIT COVER PLATE FOR BACKBOX TO REMAIN IF REQUIRED.
9	EXISTING SQUARE 'D' PANELBOARD TO REMAIN AS IS.
10	IN THIS CORRIDOR EXISTING SMOKE DETECTOR SHALL BE 'TEMPORARILY' SUPPORTED ABOVE ACOUSTIC CEILING PANELS DURING REMODEL PROJECT. PLEASE NOTE THE EXISTING ACOUSTIC CEILING SHALL BE REMOVED AND NEW CEILING SHALL BE INSTALLED AS A REPLACEMENT. REINSTALL EXISTING SMOKE DETECTOR AFTER NEW ACOUSTIC CEILING IS INSTALLED. REUSE EXISTING WIRING TO THE EXTENT POSSIBLE.
11	EXISTING POWER POLE TO REMAIN AS IS.
12	DISCONNECT, REMOVE AND DISPOSE OF EXISTING RECESSED PUBLIC ADDRESS SYSTEM SPEAKER AND ASSOCIATED LOW VOLTAGE WIRING. PLEASE NOTE NEW PUBLIC ADDRESS SYSTEM SPEAKERS WILL BE INSTALLED IN NEW REMODELED AREAS.
13	DISCONNECT, REMOVE AND DISPOSE OF EXISTING EXTERIOR DUPLEX RECEPTALCE. PLEASE NOTE EXTERIOR WALL TO FURRED-OUT APPROXIMATELY 2". REUSE EXISTING BRANCH-CIRCUIT WIRING, CONDUIT AND JUNCTION BOXES TO THE EXTENT POSSIBLE. PROVIDE A NEW REPLACEMENT GFCI RECEPTACLE AND METAL HEAVY DUTY WEATHER PROOF IN-USE COVER PLATE.
14	DISCONNECT, REMOVE AND SALVAGE EXISTING METER SOCKET. REINSTALL AFTER EXTERIOR WALL HAVE BEEN FURRED-OUT APPROXIMATELY 2". COORDINATE WITH XCEL ENERGY UTILITY COMPANY.
15	EXISTING DISCONNECT FOR PHOTOVOLTAIC SYSTEM TO REMAIN AS IS. GENERAL CONTRACTOR TO PROVIDE A EXTERIOR BOX TO ACCOMMODATE FOR FURRED-OUT WALL.
16	EXISTING WIREWAY AND EXTERIOR CONDUITS TO REMAIN AS IS. GENERAL CONTRACTOR SHALL PROVIDE A BOX TO ACCOMMODATE FOR FURRED-OUT WALL.
17	DISCONNECT EXISTING HVAC MAKE-UP AIR TYPE SYSTEM FOR REMOVAL BY OTHERS. PLEASE NOTE A NEW SYSTEM WILL BE INSTALLED IN THE SAME LOCATION. REUSE EXISTING BRANCH-CIRCUIT WIRING, CONDUIT, DISCONNECT, ETC. TO THE EXTENT POSSIBLE FOR NEW MOTOR CONNECTION.
18	DISCONNECT EXISTING VEHICLE LIFT FOR REMOVAL BY OTHERS. PLEASE NOTE A NEW LIFT WILL BE INSTALLED IN THE SAME LOCATION. REUSE EXISTING BRANCH-CIRCUIT WIRING, CONDUIT, DISCONNECT, ETC. TO THE EXTENT POSSIBLE FOR NEW MOTOR CONNECTION.
19	DISCONNECT EXISTING MOTOR MOTOR/EQUIPMENT FOR REMOVAL BY OTHERS. REMOVE EXISTING WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
20	DISCONNECT, REMOVE AND DISPOSE OF EXISTING CARD ACCESS CONTROL DEVICES. REMOVE ALL LOW VOLTAGE WIRING BACK TO SOURCE. COORDINATE WITH WTC FACILITY DEPARTMENT.
21	DISCONNECT, REMOVE AND DISPOSE OF EXISTING 'NEXLIGHT' LIGHTING CONTROL PANEL. PLEASE NOTE A NEW LIGHTING CONTROL PANEL WILL BE REPLACED IN SAME LOCATION. PLEASE REFER TO LIGHTING PLANS E101 OR E102.
22	DISCONNECT, REMOVE AND SALVAGE EXISTING SECURITY CAMERA TO WTC IT DEPARTMENT. REMOVE EXISTING LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
23	DISCONNECT, REMOVE AND DISPOSE OF EXISTING INTERCOM STATION, REMOVE ASSOCIATED LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
24	LOCATION OF EXISTING 'EDWARDS' FIRE ALARM CONTROL PANEL, 'NAC' PANEL AND BOOSTER PANEL TO REMAIN AS IS.
25	LOCATION OF EXISTING MITEL PAGING, VALCOM, AND ALERT SYSTEMS HEAD-END EQUIPMENT TO REMAIN AS IS.
26	LOCATION OF EXISTING IT EQUIPMENT RACK(S) TO REMAIN AS IS. IT WILL BE REQUIRED TO REMOVE EXISTING CAT5E PATCH PANELS AND PROVIDE NEW CAT6A PATCH PANELS. COORDINATE WITH WTC IT DEPARTMENT.
27	LOCATION OF EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL TO REMAIN AS IS.
28	DISCONNECT EXISTING MOTORIZED GATE OPENER FOR REMOVAL BY OTHERS. REMOVE WIRING BACK TO SOURCE.
29	DISCONNECT, REMOVE AND DISPOSE OF EXISTING ELECTRONIC CARD READER FOR MOTORIZED GATE OPENER. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.

NORTH

1 1ST FLOOR DEMO PLAN - POWER & LOW VOLTAGE - AREA A

1/8" = 1'-0"

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: **1ST FL. DEMO PLAN - POWER & LOW VOLT. - AREA A**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **PCP**

Key Plan:

Revisions:

No.	Description	Date

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:37:43 PM**

ED03

KEY NOTES - POWER & LOW VOLTAGE...

Number	Description
1	DISCONNECT, REMOVE AND DISPOSE OF EXISTING DUPLEX RECEPTACLE(S). REUSE EXISTING BRANCH-CIRCUIT WIRING TO THE EXTENT POSSIBLE. REUSE EXISTING CONDUIT AND JUNCTION BOXES TO THE EXTENT POSSIBLE FOR REMODEL WORK.
2	THIS WALL TO BE DEMOLISHED, DISCONNECT AND REMOVE ALL WIRING DEVICES AND ASSOCIATED CONDIT, JUNCTION BOXSES, ETC. REMOVE WIRING BACK TO SOURCE. TYPICAL.
3	DISCONNECT EXISTING PORTABLE FURNITURE WALL TO BE REMOVED BY OTHERS. REUSE EXISTING BRANCH-CIRCUIT WIRING, JUNCTION BOXES, CONDUIT, ETC. TO THE EXTENT POSSIBLE FOR REMODEL WORK.
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8	DISCONNECT, REMOVE AND SALVAGE EXISTING 'LATHEM' CLOCK TO WTC PLANT FACILITY DEPARTMENT. PROVIDE A CUSTOM FIT COVER PLATE FOR BACKBOX TO REMAIN IF REQUIRED.
9	EXISTING SQUARE 'D' PANELBOARD TO REMAIN AS IS.
10	IN THIS CORRIDOR EXISTING SMOKE DETECTOR SHALL BE 'TEMPORARILY' SUPPORTED ABOVE ACOUSTIC CEILING PANELS DURING REMODEL PROJECT. PLEASE NOTE THE EXISTING ACOUSTIC CEILING SHALL BE REMOVED AND NEW CEILING SHALL BE INSTALLED AS A REPLACEMENT. REINSTALL EXISTING SMOKE DETECTOR AFTER NEW ACOUSTIC CEILING IS INSTALLED. REUSE EXISTING WIRING TO THE EXTENT POSSIBLE.
11	EXISTING POWER POLE TO REMAIN AS IS.
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13	DISCONNECT, REMOVE AND DISPOSE OF EXISTING EXTERIOR DUPLEX RECEPTALCE. PLEASE NOTE EXTERIOR WALL TO FURRED-OUT APPROXIMATELY 2". REUSE EXISTING BRANCH-CIRCUIT WIRING, CONDUIT AND JUNCTION BOXES TO THE EXTENT POSSIBLE. PROVIDE A NEW REPLACEMENT GFCI RECEPTACLE AND METAL HEAVY DUTY WEATHER PROOF IN-USE COVER PLATE.
14	DISCONNECT, REMOVE AND SALVAGE EXISTING METER SOCKET. REINSTALL AFTER EXTERIOR WALL HAVE BEEN FURRED-OUT APPROXIMATELY 2". COORDINATE WITH XCEL ENERGY UTILITY COMPANY.
15	EXISTING DISCONNECT FOR PHOTOVOLTAIC SYSTEM TO REMAIN AS IS. GENERAL CONTRACTOR TO PROVIDE A EXTERIOR BOX TO ACCOMMODATE FOR FURRED-OUT WALL.
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19	DISCONNECT EXISTING MOTOR MOTOR/EQUIPMENT FOR REMOVAL BY OTHERS. REMOVE EXISTING WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
20	DISCONNECT, REMOVE AND DISPOSE OF EXISTING CARD ACCESS CONTROL DEVICES. REMOVE ALL LOW VOLTAGE WIRING BACK TO SOURCE. COORDINATE WITH WTC FACILITY DEPARTMENT.
21	DISCONNECT, REMOVE AND DISPOSE OF EXISTING 'NEXLIGHT' LIGHTING CONTROL PANEL. PLEASE NOTE A NEW LIGHTING CONTROL PANEL WILL BE REPLACED IN SAME LOCATION. PLEASE REFER TO LIGHTING PLANS E101 OR E102.
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24	LOCATION OF EXISTING 'EDWARDS' FIRE ALARM CONTROL PANEL, 'NAC' PANEL AND BOOSTER PANEL TO REMAIN AS IS.
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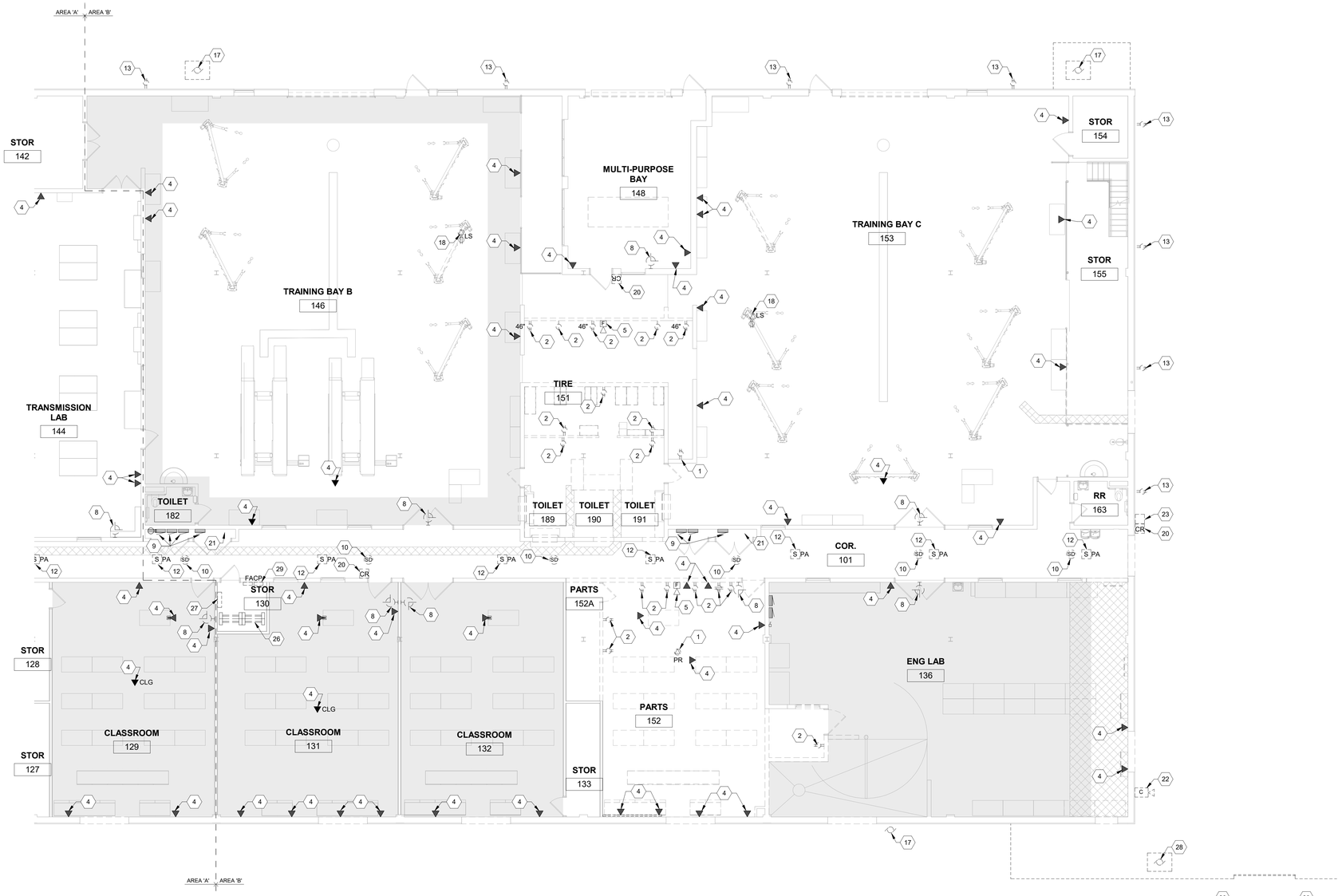

NORTH

1 1ST FLOOR DEMO PLAN - POWER & LOW VOLTAGE - AREA B

1/8" = 1'-0"

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: **1ST FL. DEMO PLAN - POWER & LOW VOLT. - AREA B**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **PCP**

Key Plan:

Revisions:

No.	Description	Date

Graphic Scale: **VARIES**

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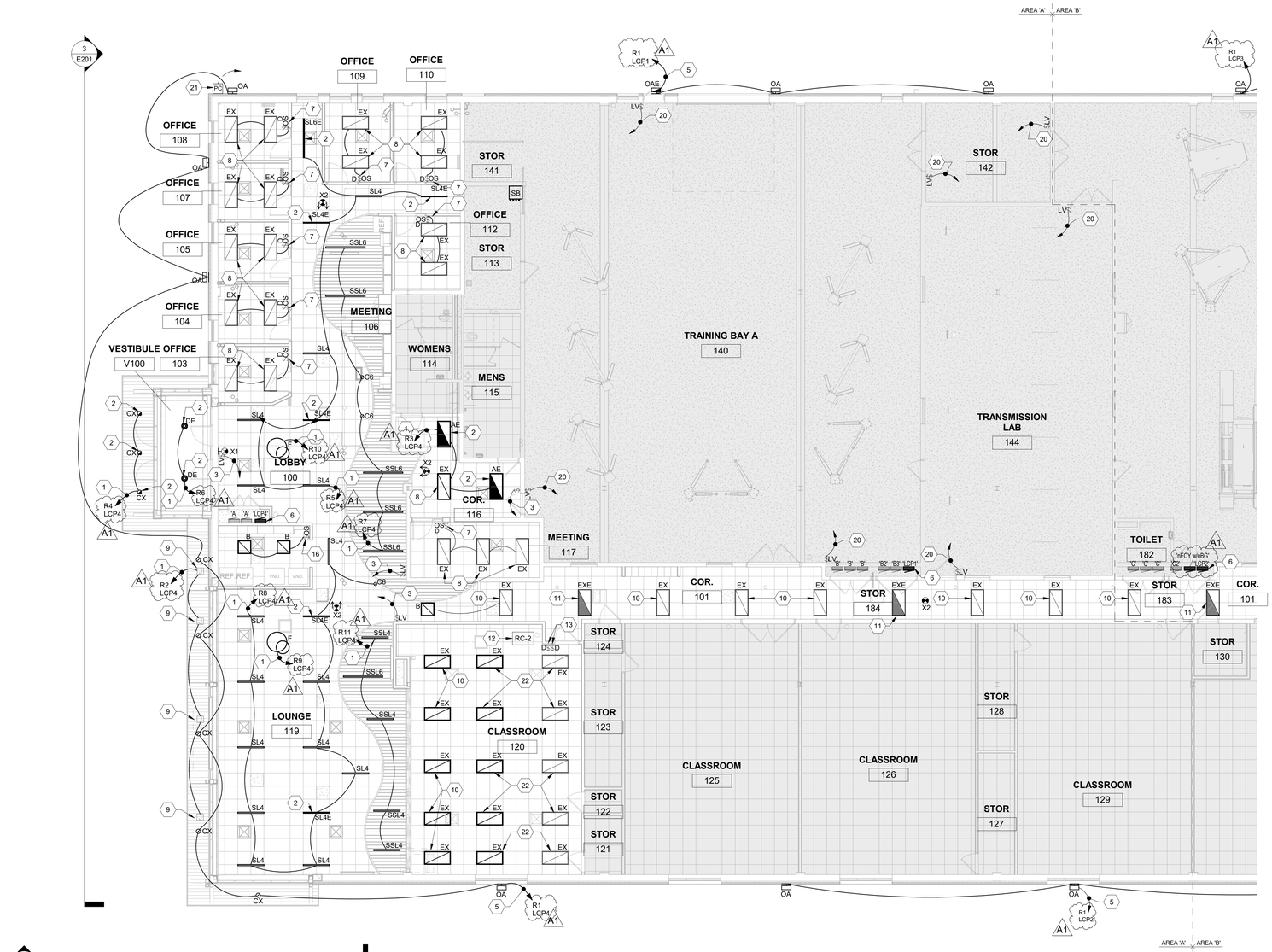
ED04

GENERAL NOTES LIGHTING:

A	FINAL OCCUPANCY SENSOR LOCATION SHALL BE BY OCCUPANCY SENSOR MANUFACTURER.
B	LIGHTING CONTROL SYSTEM BASED UPON **ACUITY** CONTROLS, n-LIGHT MANUFACTURER. WATTSTOPPER **ONLY** SHALL BE AN APPROVED EQUAL FOR THIS PROJECT. REFER TO SHEETS E600 – E603 FOR LIGHTING CONTROL DETAILS. ONLY TWO LIGHTING CONTROL MANUFACTURERS ARE APPROVED FOR THIS PROJECT.
C	COORDINATE LIGHTING FIXTURE LOCATIONS WITH MECHANICAL PIPING AND DUCTWORK PRIOR TO INSTALLATION.
D	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL DESIGNER FOR LIGHTING FIXTURE BRANCH-CIRCUITS. THE INTENT IS TO REUSE EXISTING LIFE-SAFETY BRANCH-CIRCUITS AND TO REUSE EXISTING EMERGENCY BRANCH-CIRCUITS (NON-LIFE SAFETY.
E	THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SEPARATE' BREAK-OUT' COST FOR LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE. DO NOT COMBINE LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE INTO ONE BID. IT SHALL BE ALLOWED TO PROVIDE 'WATTSTOPPER' LIGHTING CONTROLS AS AN EQUAL MANUFACTURER TO 'NLIGHT' WHICH WAS USED AS A BASIS FOR DESIGN ON THIS PROJECT.

KEY NOTES LIGHTING

1	CONNECT TO A RELAY IN NEW LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'.
2	LIGHTING FIXTURE INCLUDES AN EMERGENCY EGRESS BATTERY PACK, PROVIDE AN UN-SWITCHED 'HOT' CONDUCTOR CONNECTED TO SAME BRANCH-CIRCUIT ENERGIZING LIGHTING FIXTURES IN THIS AREA.
3	PROVIDE A LOW-VOLTAGE 2-BUTTON SWITCH AND PROVIDE A LOW VOLTAGE CABLE RECOMMENDED BY LIGHTING CONTROL MANUFACTURER TO NEAREST LIGHTING CONTROL PANEL 'LCP1','LCP2', 'LCP3' OR 'LCP4'.
4	EXTERIOR LIGHTING FIXTURE INCLUDES AN EMERGENCY EGRESS BATTERY PACK, PROVIDE AN UN-SWITCHED 'HOT' CONDUCTOR CONNECTED TO SAME BRANCH-CIRCUIT ENERGIZING LIGHTING FIXTURES IN THIS AREA.
5	CONNECT TO A RELAY IN NEW LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'. THIS RELAY SHALL ENERGIZE FROM DUSK TO DAWN VIA PHOTOCELL INPUT.
6	PROVIDE A NEW n-LIGHT LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4' TO REPLACE PREVIOUSLY REMOVED EXISTING 'NEX-LIGHT' LIGHTING CONTROL PANEL. RECONNECT ALL EXISTING SWITCH-LEG WIRING TO REMAIN, BRANCH-CIRCUIT POWER AND PROVIDE NEW LOW VOLTAGE CONTROL WIRING AS REQUIRED TO MATCH PREVIOUSLY REMOVED PANEL OPERATION.
7	PROVIDE A WALL-MOUNTED COMBINATION OCCUPANCY/DIMMER. THIS SWITCH SHALL SERVE AS AN OCCUPANCY SENSOR AND 0-10V DIMMER FOR LED LIGHTING FIXTURES.
8	REINSTALL A PREVIOUSLY REMOVED 2'X4' LED LIGHTING FIXTURE.
9	PROVIDE AN EXTERIOR JUNCTION BOX FOR 'FUTURE' CONNECTION BACK-LIT ILLUMINATED SIGN. COORDINATE MOUNTING HEIGHT, ETC. WITH SIGN COMPANY AND/OR GENERAL CONTRACTOR.
10	REINSTALL EXISTING 2'X4' LED LIGHTING FIXTURE TEMPORARILY SUPPORTED IN NEW CEILING GRID. RE-USE EXISTING SWITCH-LEG WIRING, FIXTURE WHIPS, ETC. TO THE EXTENT POSSIBLE.
11	REINSTALL EXISTING 2'X4' LED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK. TEMPORARILY SUPPORTED IN NEW CEILING GRID. RE-USE EXISTING SWITCH-LEG WIRING, FIXTURE WHIPS, ETC. TO THE EXTENT POSSIBLE.
12	EXISTING WATTSTOPPER ROOM CONTROLLER TO REMAIN AS IS.
13	EXISTING WATTSTOPPER DIMMING LIGHTING SWITCHES TO REMAIN AS IS.
14	EXISTING LED STRIP LIGHTS TO REMAIN, HOWEVER IT WILL BE REQUIRED TO TURN THEM 90 DEGREES, REUSE EXISTING SWITCHLEG WIRING, FIXTURE WHIPS, JUNCTION BOXES, ETC.
15	INSTALL A PREVIOUSLY REMOVED 2'X4' LED LIGHTING FIXTURE IN THIS ROOM.
16	PROVIDE INFRARED SINGLE RELAY WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR AS RECOMMENDED BY ACUITY n-LIGHT MANUFACTURER.
17	EXISTING SURFACE MOUNTED LED STRIP LIGHTS TO REMAIN AS IS. EXISTING RELAY SWITCH-LEG WIRING TO REMAIN AS IS.
18	REINSTALL A PREVIOUSLY REMOVED 'HIGH-BAY' LED FIXTURE IN THIS LOCATION. REUSE EXISTING RELAY SWITCH-LEG WIRING, JUNTION BOXES, CONDUIT, ETC. TO THE EXTENT POSSIBLE IN THIS AREA.
19	EXISTING 'HIGH-BAY' LED FIXTURE TO REMAIN IN THIS LOCATION AS IS. REUSE EXISTING RELAY SWITCH-LEG WIRING, JUNTION BOXES, CONDUIT, ETC. TO THE EXTENT POSSIBLE IN THIS AREA FOR ANY REWORKING OF LIGHTING FIXTURES IN THIS ROOM REQUIRED.
20	PROVIDE A LOW-VOLTAGE 4-BUTTON REPLACEMENT SWITCH AND PROVIDE A LOW VOLTAGE CABLE RECOMMENDED BY LIGHTING CONTROL MANUFACTURER TO NEAREST LIGHTING CONTROL PANEL 'LCP1','LCP2', 'LCP3' OR 'LCP4'. INCLUDE AS AN ALTERNATE BID
21	PROVIDE A PHOTOCELL AND CONNECT TO LIGHTING CONTROL PANEL 'LCP4'. PROVIDE LOW VOLTAGE CABLE AS REQUIRED.
22	EXISTING 2'X4' LED LIGHTING FIXTURE TO REMAIN AS IS.
23	PROVIDE A NEW 16-RELAY n-LIGHT LIGHTING CONTROL PANEL AS NOTED ON THE E600'S LIGHTING CONTROL DRAWINGS.
24	REINSTALL A PREVIOUSLY REMOVED 4'-0" LED STRIP LIGHTING FIXTURE.
25	INSTALL LIGHT FIXTURE WITH STANDOFF TO CLEAR CONDUITS BEHIND LIGHT FIXTURE FOR VES STARTERS.



3 E201

2 E201

NORTH

1 1ST FLOOR-LIGHTING - AREA A

1/8" = 1'-0"

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: **2721 LARSON STREET**
LA CROSSE, WI 54603

Sheet Title: **1ST FL. ELECTRICAL LIGHTING PLAN - AREA A**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **PLP**

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #1	02-24-2025

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:35:55 PM**

E101

GENERAL NOTES LIGHTING:

A	FINAL OCCUPANCY SENSOR LOCATION SHALL BE BY OCCUPANCY SENSOR MANUFACTURER.
B	LIGHTING CONTROL SYSTEM BASED UPON **ACUITY** CONTROLS, n-LIGHT MANUFACTURER. WATTSTOPPER **ONLY** SHALL BE AN APPROVED EQUAL FOR THIS PROJECT. REFER TO SHEETS E600 – E603 FOR LIGHTING CONTROL DETAILS. ONLY TWO LIGHTING CONTROL MANUFACTURERS ARE APPROVED FOR THIS PROJECT.
C	COORDINATE LIGHTING FIXTURE LOCATIONS WITH MECHANICAL PIPING AND DUCTWORK PRIOR TO INSTALLATION.
D	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL DESIGNER FOR LIGHTING FIXTURE BRANCH-CIRCUITS. THE INTENT IS TO REUSE EXISTING LIFE-SAFETY BRANCH-CIRCUITS AND TO REUSE EXISTING EMERGENCY BRANCH-CIRCUITS (NON-LIFE SAFETY.
E	THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SEPARATE' BREAK-OUT' COST FOR LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE, DO NOT COMBINE LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE INTO ONE BID. IT SHALL BE ALLOWED TO PROVIDE 'WATTSTOPPER' LIGHTING CONTROLS AS AN EQUAL MANUFACTURER TO 'NLIGHT' WHICH WAS USED AS A BASIS FOR DESIGN ON THIS PROJECT.

KEY NOTES LIGHTING

1	CONNECT TO A RELAY IN NEW LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'.
2	LIGHTING FIXTURE INCLUDES AN EMERGENCY EGRESS BATTERY PACK, PROVIDE AN UN-SWITCHED 'HOT' CONDUCTOR CONNECTED TO SAME BRANCH-CIRCUIT ENERGIZING LIGHTING FIXTURES IN THIS AREA.
3	PROVIDE A LOW-VOLTAGE 2-BUTTON SWITCH AND PROVIDE A LOW VOLTAGE CABLE RECOMMENDED BY LIGHTING CONTROL MANUFACTURER TO NEAREST LIGHTING CONTROL PANEL 'LCP1','LCP2', 'LCP3' OR 'LCP4'.
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5	CONNECT TO A RELAY IN NEW LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'. THIS RELAY SHALL ENERGIZE FROM DUSK TO DAWN VIA PHOTOCELL INPUT.
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7	PROVIDE A WALL-MOUNTED COMBINATION OCCUPANCY/DIMMER. THIS SWITCH SHALL SERVE AS AN OCCUPANCY SENSOR AND 0-10V DIMMER FOR LED LIGHTING FIXTURES.
8	REINSTALL A PREVIOUSLY REMOVED 2'X4' LED LIGHTING FIXTURE.
9	PROVIDE AN EXTERIOR JUNCTION BOX FOR 'FUTURE' CONNECTION BACK-LIT ILLUMINATED SIGN. COORDINATE MOUNTING HEIGHT, ETC. WITH SIGN COMPANY AND/OR GENERAL CONTRACTOR.
10	REINSTALL EXISTING 2'X4' LED LIGHTING FIXTURE TEMPORARILY SUPPORTED IN NEW CEILING GRID. RE-USE EXISTING SWITCH-LEG WIRING, FIXTURE WHIPS, ETC. TO THE EXTENT POSSIBLE.
11	REINSTALL EXISTING 2'X4' LED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK TEMPORARILY SUPPORTED IN NEW CEILING GRID. RE-USE EXISTING SWITCH-LEG WIRING, FIXTURE WHIPS, ETC. TO THE EXTENT POSSIBLE.
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15	INSTALL A PREVIOUSLY REMOVED 2'X4' LED LIGHTING FIXTURE IN THIS ROOM.
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17	EXISTING SURFACE MOUNTED LED STRIP LIGHTS TO REMAIN AS IS. EXISTING RELAY SWITCH-LEG WIRING TO REMAIN AS IS.
18	REINSTALL A PREVIOUSLY REMOVED 'HIGH-BAY' LED FIXTURE IN THIS LOCATION. REUSE EXISTING RELAY SWITCH-LEG WIRING, JUNTION BOXES, CONDUIT, ETC. TO THE EXTENT POSSIBLE IN THIS AREA.
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21	PROVIDE A PHOTOCELL AND CONNECT TO LIGHTING CONTROL PANEL 'LCP4'. PROVIDE LOW VOLTAGE CABLE AS REQUIRED.
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23	PROVIDE A NEW 16-RELAY n-LIGHT LIGHTING CONTROL PANEL AS NOTED ON THE E600'S LIGHTING CONTROL DRAWINGS.
24	REINSTALL A PREVIOUSLY REMOVED 4-0" LED STRIP LIGHTING FIXTURE.
25	INSTALL LIGHT FIXTURE WITH STANDOFF TO CLEAR CONDUITS BEHIND LIGHT FIXTURE FOR VES STARTERS.

1 1ST FLOOR-LIGHTING - AREA B

1/8" = 1'-0"

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: **1ST FL. ELECTRICAL LIGHTING PLAN - AREA B**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **PLP**

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #1	02-24-2025

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:36:56 PM**

E102

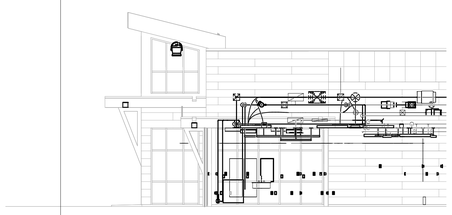
GENERAL NOTES - POWER

NUMBER	DESCRIPTION
A	PERFORM UPDATED ARC FLASH STUDY BEFORE ORDERING GEAR AND PANELS TO MEET REQUIRED KAIC.
B	*** NOTE *** FEEDERS SHOWN MAY BE OVERSIZED TO COMPENSATE FOR VOLTAGE DROP.
C	PROVIDE SQUARE 'D' PANELBOARS ONLY, NO EQUALS ACCEPTED.
D	WORK PERFORMED IN NON-REMODELED AREAS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AND PATCHING OF WALLS AND CEILINGS. TYPICAL
E	

NORTH

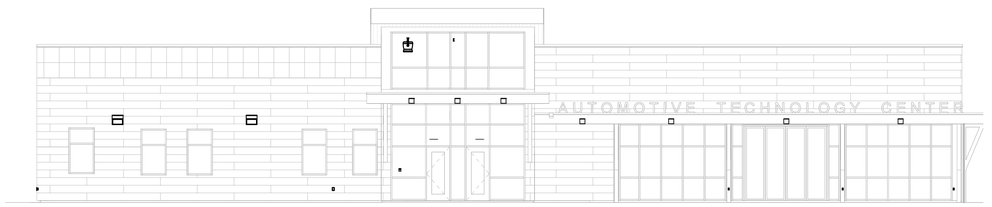
1 1ST FLOOR-POWER - AREA A

1/8" = 1'-0"



2 Section Main Entrance Side view

1/8" = 1'-0"



3 Section Main Entrance

1/8" = 1'-0"

SHEET E201 ADDED VIA ADDENDUM #1

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Project Title: WESTERN TECHNICAL COLLEGE
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: 1ST FL. ELECTRICAL POWER PLAN - AREA A

HSR Project Number: 24061

Project Date: FEB 2025

Drawn By: PCP

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #1	02-24-2025

Graphic Scale: VARIES

A1

Last Update: 2/21/2025 2:37:02 PM

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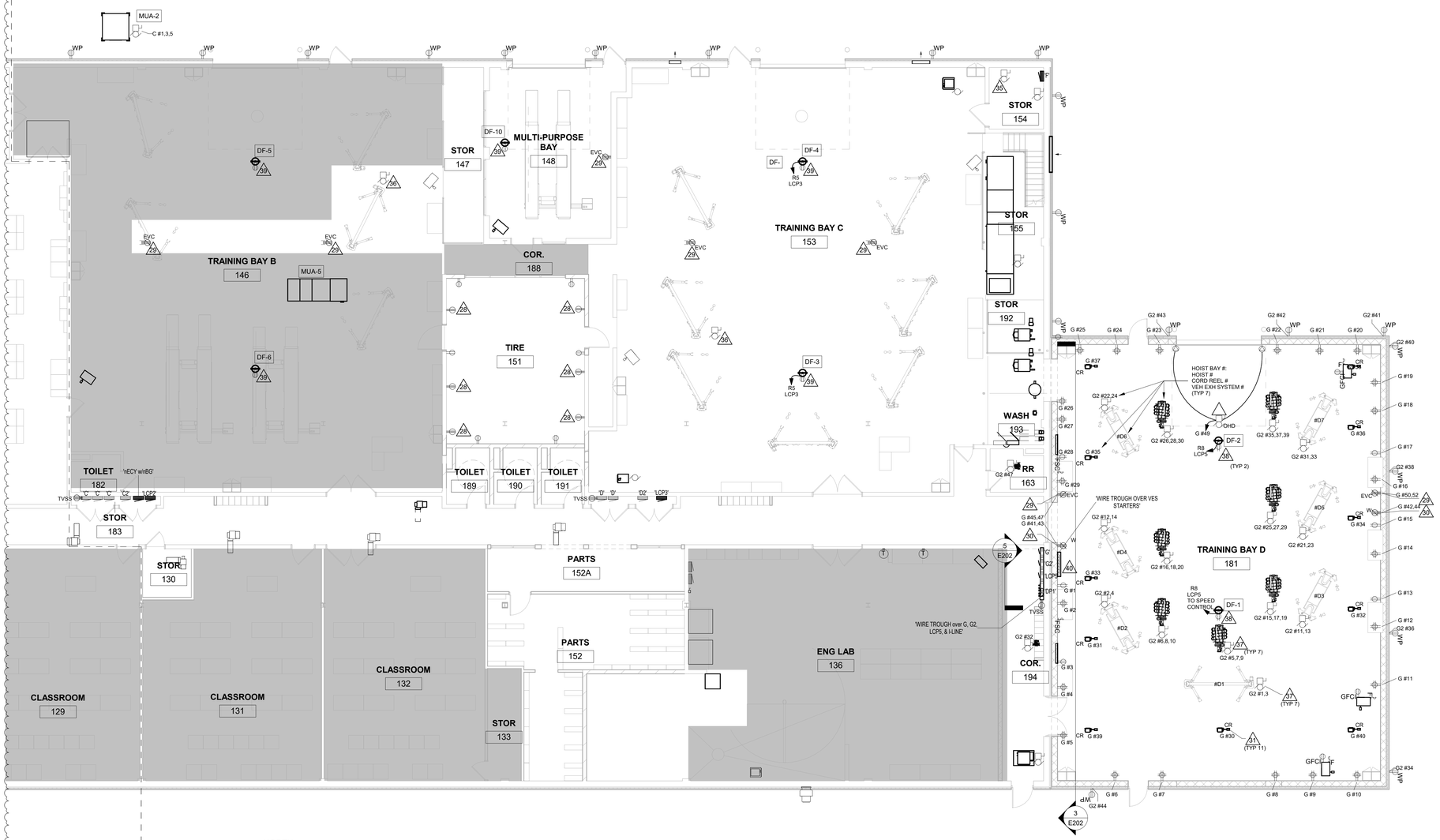
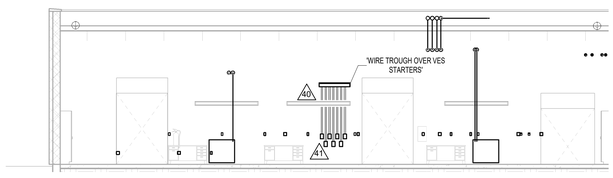


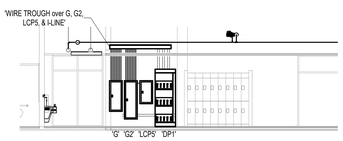
1 1ST FLOOR-POWER - AREA B

1/8" = 1'-0"



3 Section 8

1/8" = 1'-0"



5 Section Panels Cooridor 194

1/8" = 1'-0"

GENERAL NOTES - POWER

NUMBER	DESCRIPTION
A	PERFORM UPDATED ARC FLASH STUDY BEFORE ORDERING GEAR AND PANELS TO MEET REQUIRED KAIC.
B	*** NOTE *** FEEDERS SHOWN MAY BE OVERSIZED TO COMPENSATE FOR VOLTAGE DROP.
C	PROVIDE SQUARE 'D' PANELBOARS ONLY, NO EQUALS ACCEPTED.
D	WORK PERFORMED IN NON-REMODELED AREAS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AND PATCHING OF WALLS AND CEILINGS. TYPICAL
E	

KEY NOTES POWER

1	PROVIDE A DUPLEX RECEPTACLE FOR WALL-MOUNTED MONITOR, 'FISH' WIRING INSIDE EXISTING WALL IF POSSIBLE. OTHERWISE PROVIDE WIREMOLD 500/700 AND INSTALL VERTICALLY FROM ABOVE SUSPENDED CEILING. FIELD VERIFY MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
2	PROVIDE A 20 AMP., 120VAC, CEILING MOUNTED DUPLEX RECEPTACLE FOR OVERHEAD PROJECTOR CORD AND PLUG CONNECTION. COORDINATE EXACT LOCATION WITH WTC IT DEPARTMENT.
3	PROVIDE A NEW 20 AMP., 120VAC DUPLEX RECEPTACLE TO REPLACE EXISTING, INSTALL IN EXISTING JUNCTION BOX. REUSE EXISTING CONDUIT INSTALLED IN WALL TO THE EXTENT POSSIBLE. PROVIDE NEW BRANCH-CIRCUIT WIRING TO WIRING-DEVICE. PROVIDE A NEW STAINLESS STEEL COVER PLATE. PROVIDE GFI RECEPTACLE WHERE NOTED.
4	ELECTRICAL CONTRACTOR SHALL INSTALL A WTC 'STANDARDIZED' LATHEM AIRTIME CLOCK AND BACKBOX AT THIS LOCATION PROVIDED BY WTC FACILITY MAINTENANCE DEPARTMENT (OWNER). INSTALL A LATHEM AIRTIME BACKBOX WITH 120VAC RECEPTACLE PROVIDED BY OWNER. INSTALL A 120VAC LATHEM AIRTIME WIRELESS CLOCK PROVIDED BY OWNER. PROVIDE A 120VAC BRANCH-CIRCUIT WIRING AND MAKE FINAL CONNECTION AS REQUIRED. FIELD VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN. MOUNT BACKBOX FLUSH IN NEW WALLS, SURFACE MOUNT IS ACCEPTABLE IN EXISTING WALLS. COORDINATE WITH WTC PLANT FACILITY DEPARTMENT. REINSTALL EXISTING CLOCK PREVIOUSLY REMOVED DURING DEMO PHASE OF PROJECT.
5	ELECTRICAL CONTRACTOR SHALL INSTALL 40VA TYPE OF TRANSFORMER PROVIDED BY PLUMBING CONTRACTOR FOR AUTOMATIC FLUSH VALVE CONTROL. COORDINATE WITH PLUMBING CONTRACTOR.
6	PROVIDE A SINGLE-POLE SWITCH TO CONTROL AUTOMATIC FLUSH VALVE TRANSFORMERS, CLEARLY LABEL AS DIRECTED BY WTC FACILITY MAINTENANCE DEPARTMENT.
7	ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO LOW VOLTAGE CONTROL SYSTEM FOR OVERHEAD DOOR SENSORS AND START/STOP STATION. INSTALL LOW VOLTAGE WIRING INSIDE EMT CONDUIT RACEWAY SYSTEM, DO NOT INSTALL LOW VOLTAGE WIRING 'FREE-AIR'.
8	ELECTRICAL CONTRACTOR SHALL PROVIDE AN INDUSTRIAL GRADE 'WHITE' RETRACTABLE CORD REEL WITH A 20 AMP., DUPLEX RECEPTACLE. HUBBELL, MODEL #HBL145123GF220M1. SET RETRACTABLE CORD TO APPROXIMATELY 4'-0" ABOVE FINISH FLOOR. CORD REEL SHALL BE CONSTRUCTED OF ALUMINUM MATERIAL. FIELD VERIFY MOUNTING LOCATION WITH WTC INSTRUCTOR'S. REFER TO DETAIL 1/E402.
9	PROVIDE A COMBINATION POWER/DATA WIREMOLD 4000 SERIES SURFACE RACEWAY.
10	FOR ESTIMATING PURPOSES ONLY, PROVIDE A 50 CORD WITH A 20AMP., 125/250VAC, 4-WIRE PLUS GROUND, 3-PHASE SINGLE TWIST-LOCK RECEPTACLE WITH GROUND AND NEUTRAL SUSPENDED FROM CEILING, PROVIDE KELLUM TYPE CORD SUPPORT, NEMA L14-20R. CONFIRM NEMA TYPE WITH WTC INSTRUCTOR PRIOR TO PURCHASING AND INSTALLING SINGLE RECEPTACLE. LENGTH OF CORD SHALL BE APPROXIMATELY 4'-0" A.F.F.
11	PROVIDE A 20AMP., 120VAC, DOUBLE DUPLEX RECEPTACLE FOR TEACHER'S STATION.
12	PROVIDE A DOUBLE DUPLEX RECEPTACLE FOR NEW 'STUDENT' IT EQUIPMENT RACK. COORDINATE WITH WTC IT DEPARTMENT. PROVIDE A 20 AMP., 120VAC BRANCH-CIRCUIT.
13	MAKE FINAL CONNECTION TO EXTERIOR SIGN.
14	MAKE FINAL CONNECTION TO MOTORIZED ASSISTED DOOR OPENER, WIRE ASSOCIATED LOW VOLTAGE 'HARD-WIRED' LOW VOLTAGE PUSHBUTTONS.
15	CONNECT MOTORIZED ASSISTED DOOR PUSHBUTTON TO EXTERIOR ALUMINUM POST.
16	EXTERIOR ALUMINUM POST PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
17	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A COMBINATION POWER/COMMUNICATION FLOOR JUNCTION BOX AS FOLLOWS: A.ONE (1) WIREMOLD RFB4 – 4 COMPARTMENT COMBINATION BOX. B.TWO (2) WIREMOLD RFB-DR-DUPLEX RECEPTACLE BRACKETS. C.TWO (2) WIREMOLD DTP-2-3T COMMUNICATION BRACKETS. D.ONE (1) RFB4 COVER PLATE TO MATCH FLOORING TYPE. E.CONSULT WIREMOLD SALES REPRESENTATIVE TO CONFIRM QUANTITY AND MODEL NUMBERS.
18	CONNECT TRANSFORMER TO NEAREST AVAILABLE EXISTING 120VAC BRANCH-CIRUIT IN THIS ROOM.
19	PROVIDE A DUPLEX RECEPTACLE FOR LAP-TOP COMPUTER CHARGING CART.
20	PROVIDE A DUPLEX RECEPTACLE FOR REFRIGERATOR, FEED WITH GFI CIRCUIT BREAKER.
21	PROVIDE A 20AMP., 120VAC, DUPLEX RECEPTACLE FOR MICROWAVE OVEN.
22	PROVIDE A 20 AMP., 120VAC, NEMA L5-20R RECEPTACLE. RECEPTACLE SHALL MATCH 20 AMP., 120VAC, TWIST-LOCK CORD AND PLUG ON TABLE. COORDINATE WITH WTC PLANT FACILITY DEPARTMENT.
23	TABLE INCLUDES A 20 AMP., 120VAC, TWIST-LOCK CORD AND PLUG.
24	CONNECT EXHAUST FAN TO ROOM LIGHTING FIXTURES.
25	EXISTING PANELBOARDS 'D' AND 'D1' ARE NEWER SQUARE 'D' PANELS. USE 'SPARE' CIRCUIT BREAKERS IN THESE PANELS FOR REMODEL PROJECT, THERE IS AMPLE QUANTITY OF CIRCUIT BREAKERS AVAILABLE TO FEED REMODEL LOADS.
26	DISCONNECT EXISTING 120VAC MOTORIZED ASSISTED DOOR OPENER FOR REMOVAL AND RECONNECT A NEW 120VAC MOTORIZED DOOR OPENER INSTALLED IN SAME LOCATION. REUSE EXISTING BRANCH-CIRCUIT.
27	PROVIDE A 'REPLACEMENT' PANELBOARD INSTALLED IN THIS APPROXIMATE LOCATION WITH NEW SQUARE 'D' (ONLY) PANELBOARD. REUSE EXISTING EMPTY CONDUIT TO THE EXTENT POSSIBLE FOR NEW FEEDER. PROVIDE AS AN ALTERNATE BID. REFER TO ELECTRIC RISER DIAGRAM 1/E401.
28	INSTALL L6-20R, 208V 2POLE, 3 WIRE. TIRE MACHINE RECEPTACLE.
29	INSTALL NEMA 5-50 RECEPTACLE FOR LEVEL 2 EV CHARGER.
30	INSTALL NEMA 5-50 RECEPTACLE FOR WELDING EQUIPMENT.
31	INSTALL 20A RECEPTACLE AT CEILING FOR HUBBELL CORD REEL. CORD REEL HAS IN INTEGRAL GFCI, DO NOT USE GFCI RECPTACLE OR BREAKER.
32	CONDENSING UNIT 20, BAY A
33	CONDENSING UNIT 21, BAY B
35	AIR COMPRESSOR
36	USE EXISTING DISCONNECT AND CIRCUIT, RECONFIGURING CONDUIT AS NECESSARY TO CONNECT NEW AUTO HOIST.
37	PROVIDE AND INSTALL NEW NON-FUSED 'SWITCH-STYLE' OR 'PULLOUT-STYLE 'AC DISCONNECT WITH INTEGRATED GDCI RECEPTACLE AT HOIST. INSTALL CONDUIT DROP FROM CEILING TO FEED DISCONNECT.
38	DISCONNECT, REMOVE, AND DISCARD OF EXISTING CEILING FAN. INSTALL NEW CEILING FAN IN SAME LOCATION. INSTALL TOGGLE SWITCH DISCONNECT AT FAN LOCATION IF NOT CORD-AND-PLUG CONNECTED. INSTALL NEW FAN SPEED CONTROL AT ALL NEW FAN LOCATIONS. (TYP OF 3).
39	DISCONNECT, REMOVE, AND DISCARD OF EXISTING CEILING FAN. INSTALL NEW CEILING FAN IN SAME LOCATION. INSTALL TOGGLE SWITCH DISCONNECT AT FAN LOCATION IF NOT CORD-AND-PLUG CONNECTED. REPLACE EXISTING SPEED CONTROLS WITH NEW FOR AT ALL EXISTING FAN LOCATIONS. (TYP OF 7).
40	INSTALL LIGHT FIXTURE WITH STANDOFF TO CLEAR CONDUITS BEHIND LIGHT FIXTURE FOR VES STARTERS. SEE DETAIL 3/E202.
41	INSTALL MOTOR STARTERS WITH OVERLOADS AND START-STOP BUTTONS FOR VEHICLE EXHASUT SYSTEM FANS. STARTER CONTACTOR COILS RATED AT 24V. INSTALL TRANSFORMERS FOR CONTROL POWER AS NECESSARY, CAN BE MOUNTED ON OR NEAR THE WIRING TROUGH ABOVE. RUN CONTROL WIRIN

SHEET E202 ADDED VIA ADDENDUM #1

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Project Title: WESTERN TECHNICAL COLLEGE
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: 1ST FL. ELECTRICAL POWER PLAN - AREA B

HSR Project Number: 24061

Project Date: FEB 2025

Drawn By: JMH

Key Plan:

Revisions:

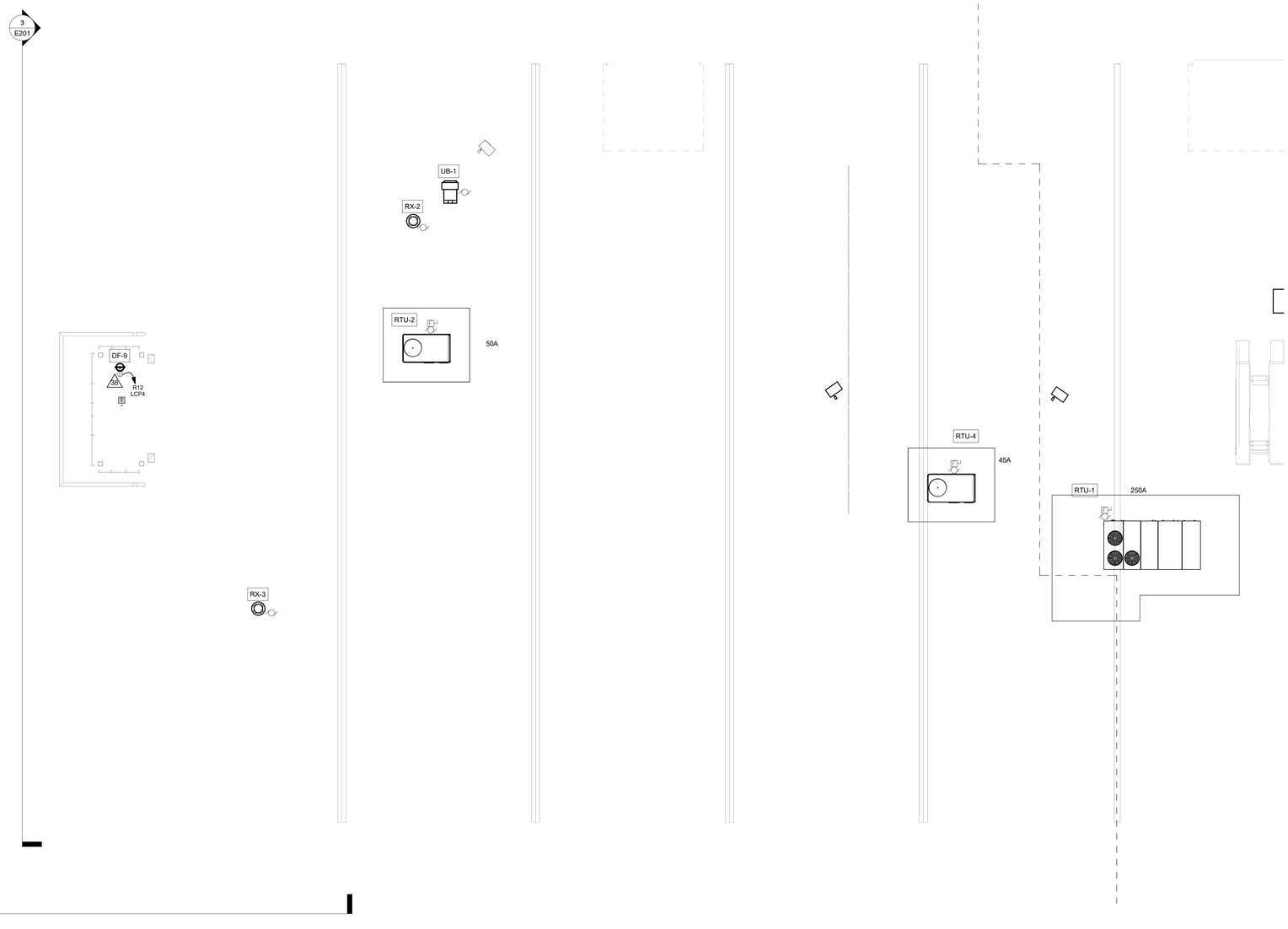
No.	Description	Date
1	ADDENDUM #1	02-24-2025

Graphic Scale: VARIES

Last Update: 2/21/2025 2:37:21 PM

A1

E202



NORTH

1 ROOF - POWER - AREA A

1/8" = 1'-0"

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Project Location:
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Sheet Title:
ROOF POWER PLAN - AREA A

HSR Project Number:
24061

Project Date:
FEB 2025

Drawn By:
Author

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #1	02-24-2025

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VARIES

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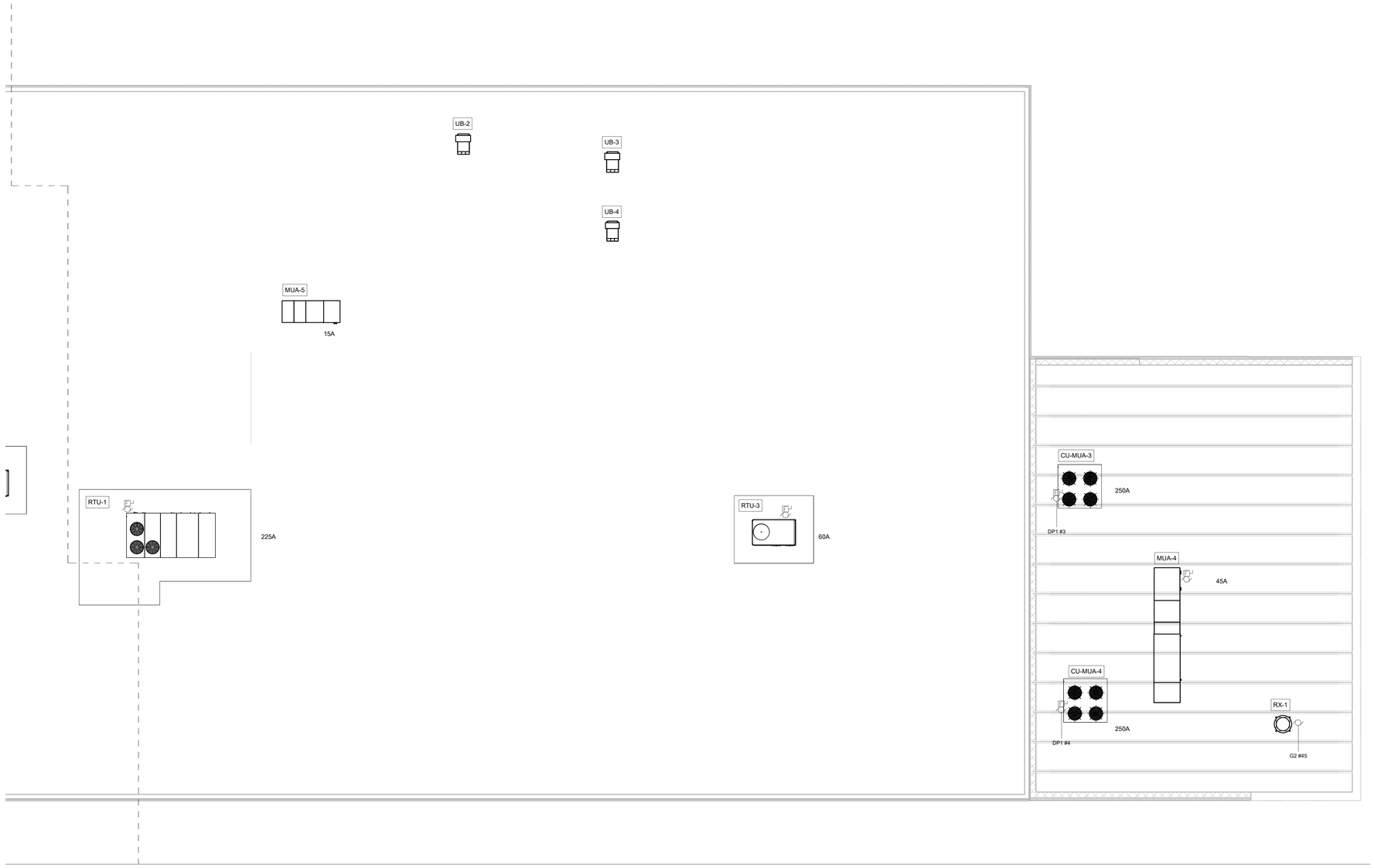
A1

E203

SHEET E203 ADDED VIA ADDENDUM #1



SHEET E204 ADDED VIA ADDENDUM #1

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Project Title:
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WTC VEHICLE TECHNOLOGY CENTER

Project Location:
2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title:
ROOF POWER PLAN - AREA B

HSR Project Number:
24061

Project Date:
FEB 2025

Drawn By:
Author

Key Plan:

Revisions:

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1	ADDENDUM #1	02-24-2025

Graphic Scale:
VARIES

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2/21/2025 2:37:25 PM

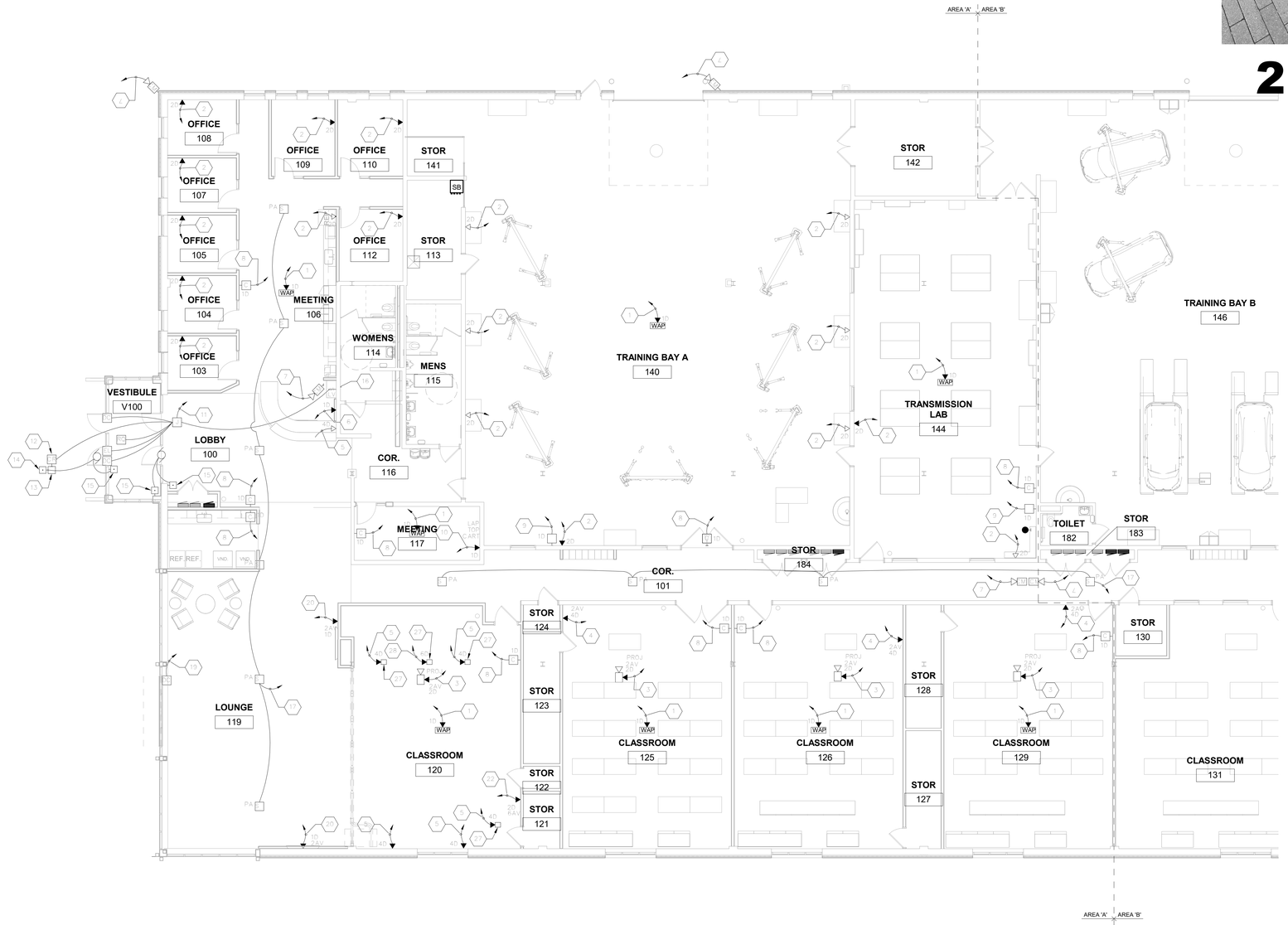
A1

E204

KEYED NOTES - LOW VOLTAGE	
NUMBER	DESCRIPTION
1	APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN WIRELESS ACCESS POINT AND EXISTING IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL. COORDINATE WITH WTC IT DEPARTMENT.
2	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND EXISTING IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE 1" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN. IF EXISTING JUNCTION BOXES AND CONDUIT ARE AVAILABLE IT SHALL BE ALLOWED TO REUSE.
3	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR WALL-MONITOR AND/OR OVERHEAD PROJECTOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN WALL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED FOR DATA/AV WIRING.
4	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SIX-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING AS REQUIRED.
5	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT DATA JACK AT THIS APPROXIMATE LOCATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN WALL FOR DATA WIRING, STUB TWO (2) 1" EMT CONDUITS TO ABOVE SUSPENDED CEILING, PROVIDE PLASTIC BUSHINGS ON END OF CONDUIT ABOVE CEILING.
6	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK FOR WALL-MOUNTED MONITOR. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS.
7	ELECTRICAL CONTRACTOR SHALL INSTALL A SECURITY IP CCTV CAMERA WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
8	ELECTRICAL CONTRACTOR SHALL INSTALL A DIGITAL CLOCK WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT. REUSE EXISTING BACKBOX FROM PREVIOUSLY REMOVED CLOCK IF AVAILABLE, PROVIDE A CUSTOM COVER PLATE AS REQUIRED.
9	ELECTRICAL CONTRACTOR SHALL RECONNECT AN EXISTING 'ALERTIS' SYSTEM DEVICE IN THIS APPROXIMATE LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
10	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE 1" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
11	ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SMART CABLE' HOMERUN TO EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN STORAGE ROOM #130. SMART CABLE SHALL BE BELDEN, MODEL #6584FJ OR EQUAL, 16 CONDUCTOR, 4 ELEMENT, ACESS CONTROL CABLE, 18-04 + 22-3P + 22-02 + 22-04 PLENUM YELLOW COLOR. REFER TO ELECTRONIC DOOR ACCESS CONROL DETAIL 3/E401.
12	INSTALL CARD READER ON EXTERIOR METAL PEDESTAL. REFER TO PHOTO #1/E301 FOR EXAMPLE.
13	EXTERIOR METAL POST PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
14	ELECTRICAL CONTRACTOR SHALL INSTALL A 'HARD-WIRED' LOW VOLTAGE PADDLE SWITCH ON EXTERIOR METAL PEDESTAL FOR MOTORIZED ASSISTED DOOR OPENER PROVIDED BY GENERAL CONTRACTOR. PROVIDE LOW VOLTAGE WIRING AS REQUIRED BETWEEN PADDLE SWITCH AND DOOR CONTROLLER.
15	ELECTRICAL CONTRACTOR SHALL INSTALL A 'HARD-WIRED' LOW VOLTAGE PADDLE SWITCH ON INTERIOR WALL FOR MOTORIZED ASSISTED DOOR OPENER PROVIDED BY GENERAL CONTRACTOR. PROVIDE LOW VOLTAGE WIRING AS REQUIRED BETWEEN PADDLE SWITCH AND DOOR CONTROLLER.
16	REINSTALL PREVIOUSLY REMOVED LOW VOLTAGE SWITCH TO UNLOCK AND LOCK FRONT EXTERIOR DOOR. INSTALLATION SHALL MATCH ORIGINAL INSTALLATION PRIOR TO REMOVAL. PROVIDE LOW VOLTAGE AS REQUIRED BETWEEN SWITCH AND EXISTING ELECTRONIC ACCESS DOOR CONTROL PANEL.
17	PROVIDE #18/2 PLENUM RATED LOW VOLTAGE CABLE AS RECOMMENDED BY PUBLIC ADDRESS SPEAKER MANUFACFURER AND CONNECT TO EXISTING AMPLIFIER LOCATED IN STORAGE ROOM #130.
18	ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SMART CABLE' HOMERUN TO EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN STORAGE ROOM #130. SMART CABLE SHALL BE BELDEN, MODEL #6584FJ OR EQUAL, 16 CONDUCTOR, 4 ELEMENT, ACESS CONTROL CABLE. 18-04 + 22-3P + 22-02 + 22-04 PLENUM YELLOW COLOR. REFER TO ELECTRONIC DOOR ACCESS CONROL DETAIL 3/E401. PLEASE NOTE ELECTRICAL CONTRACTOR TO ROUGH-IN CONDUIT AND LOW VOLTAGE WIRING FOR 'FUTURE' DOOR ACCESS CONTROL DEVICES TO BE INSTALLED AT A LATE DATE.
19	PROVIDE A 18/4 LOW VOLTAGE CABLE AS RECOMMENDED BY DOOR ACCESS CONTROL SYSTEM SUB-CONTRACTOR FOR DOOR CONTACT SWITCH AND TERMINATE AT EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN STORAGE ROOM #130.
20	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR WALL-MONITOR. PROVIDE ONE (1) NETWORK CAT6A CABLE TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN WALL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX LOCATED IN CLASSROOM 120. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED FOR DATA/AV WIRING.
21	EXISTING NETWORK EQUIPMENT RACK TO REMAIN. IT WILL BE REQUIRED FOR THE ELECTRICAL CONTRACTOR TO UPGRADE EXISTING CAT5E PATCH PANELS WITH 'NEW' CAT6A PATCH PANELS AS REQUIRED FOR REMODEL PROJECT.
22	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EIGHT-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE TWO (2) NETWORK CAT6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE SIX (6) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND WALL-MONITOR JUNCTION BOXES LOCATED IN LOUNGE 119 AND CLASSROOM 120 OVERHEAD PROJECTOR. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING AS REQUIRED. COORDINATE WITH WTC IT DEPARTMENT.
23	LOCATION OF EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL AN POWER SUPPLIES.
24	LOCATION OF EXISTING EDWARDS (EST) FIRE ALARM CONTROL PANLEL AND ASSOCIATED NAC PANEL.
25	LOCATION OF EXISTING MITEL PUBLIC ADDRESS SYSTEM PAGING, ALERTIS AND VALCOM HEAD-END EQUIPMENT.
26	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE-PORT DATA JACK AT THIS APPROXIMATE LOCATION. PROVIDE THREE (3) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN WALL FOR DATA WIRING, STUB TWO (2) 1" EMT CONDUITS TO ABOVE SUSPENDED CEILING, PROVIDE PLASTIC BUSHINGS ON END OF CONDUIT ABOVE CEILING.
27	REUSE EXISTING POWER POLE TO THE EXTENT POSSIBLE. PROVIDE A NEW POWER POLE ADJACENT TO EXISTING ONE IF MORE RACEWAY IS REQUIRED FOR CABLE FILL.
28	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SIX - PORT DATA JACK AT THIS APPROXIMATE LOCATION. PROVIDE SIX (6) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130.
29	ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID TO PROVIDE 415'-0" OF NEW REPLACEMENT 12-STRAND, SINGLE-MODE FIBER-OPTIC CABLE. THIS CABLE SHALL BE ROUTED UNDERGROUND IN EXISTING CONDUIT BETWEEN WTC AUTOMOTIVE STORAGE ROOM #130 AND WTC DIESEL BUILDING MDF ROOM. IT SHALL BE REQUIRED FOR BIDDING CONTRACTOR TO VISIT SITE PRIOR TO SUBMITTING BID TO DETERMINE SCOPE OF WORK PRIOR TO BIDDING PROJECT. COORDINATE WITH WTC IT DEPARTMENT. INCLUDE AS AN ALTERNATE BID.
30	LOCATION OF NEW WALL-MOUNTED IT EQUIPMENT RACK PROVIDED BY WTC IT DEPARTMENT, INSTALLED BY ELECTRICAL CONTRACTOR.
31	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THIRTEEN (13) COMBINATION DATA/AV CABLES AT THIS WALL-MOUNTED IT EQUIPMENT RACK FOR TEACHER'S CUSTOM PAN-ZOOM-TILT (PZT) CAMERA SYSTEM. PROVIDE FIVE (5) NETWORK CAT6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN WALL-MOUNTED IT EQUIPMENT RACK AND EACH CEILING MOUNTED PAN-ZOOM-TILT (PZT) CAMERAS (2-CAMERAS TOTAL). TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN WALL-MOUNTED IT EQUIPMENT RACK AND EACH WALL-MOUNTED MONITOR (2-TOTAL) ONE LOCATED ON NORTH WALL AND ONE LOCATED ON SOUTH WALL. PROVIDE SURFACE WIREMOLD AND/OR EMT CONDUIT, JUNCTION BOXES AND RACEWAY SIZED AS REQUIRED FOR CABLE ROUTING. COORDINATE WITH WTC IT DEPARTMENT. TERMINATE EACH END OF CABLES.
32	LOCATION OF CUSTOM PAN-ZOOM-TILT (PZT) CAMERA SYSTEM TOUCH SCREEN PROVIDED BY WTC IT DEPARTMENT, INSTALLED BY EC. PROVIDE ONE (1) CAT6A DATA CABLE BETWEEN TOUCH SCREEN AND WALL-MOUNTED IT EQUIPMENT RACK LOCATED IN THIS ROOM. TERMINATE BOTH ENDS OF CABLE. PROVIDE JUNCTION BOX AND 1" EMT CONDUIT BETWEEN TOUCH SCREEN AND WALL-MOUNTED IT EQUIPMENT RACK.
33	ELECTRICAL CONTRACTOR SHALL INSTALL A PAN-ZOOM-TILT (PZT) CAMERA PROVIDED BY WTC IT DEPARTMENT. PROVIDE TWO (2) CAT6A SHIELDED CABLES BETWEEN PZT CAMERA AND WALL-MOUNTED IT EQUIPMENT RACK IN THIS ROOM AND TERMINATE BOTH ENDS OF EACH CABLE. PROVIDE EMT CONDUIT RACEWAY AS REQUIRED.
34	ELECTRICAL CONTRACTOR SHALL INSTALL A LARGE SCREEN MONITOR PROVIDED BY WTC IT DEPARTMENT. PROVIDE TWO (2) CAT6A SHIELDED CABLES BETWEEN LARGE SCREEN MONITOR AND WALL-MOUNTED IT EQUIPMENT RACK IN THIS ROOM AND TERMINATE BOTH ENDS OF EACH CABLE. PROVIDE EMT CONDUIT RACEWAY AS REQUIRED.
35	PROVIDE A QUAM, 8" DIAMETER, PUBLIC ADDRESS SPEAKER, MODEL NUMBER AS FOLLOWS: LOUDSPEAKER – 8C10PAX TRANSFORMER – 5 WAT, 25/70 VOLT WITH TAPS BAFFLE – BR8WS BACKBOX – ER08U MOUNTING SUPPORT – SSB-3
36	PROVIDE A QUAM, PUBLIC ADDRESS SYSTEM PAGING HORN WITH UNIVERSAL MOUNT, BEIGE FINISH COLOR, 16 WATT, 25/70 VOLTS, MODEL #QH16T.

GENERAL NOTES - LOW VOLTAGE	
NUMBER	DESCRIPTION
A	COLOR CODING SHALL BE AS FOLLOWS: 1.NETWORKING (DATA) = ORANGE DATA JACKS WITH BLUE CAT6A CABLES. 2.I/P PHONE = ORANGE DATA JACKS WITH BLUE CAT6A CABLES 3.AUDIO/VIDEO (A/V) = GREEN DATA JACKS WITH GREEN CATE 6A CABLE 4.SECURITY CAMERAS = WHITE JACKS WITH WHITE CAT6A CABLE 5.ELECTRONIC DOOR ACCESS SYSTEM = YELLOW MULTI-ELEMENT SMART CABLE 6.HVAC CONTROLS = PURPLE JACKS WITH PURPLE CAT6A CABLES. 7.NETWORKING (DATA) FOR STUDENTS = GRAY DATA JACKS WITH GRAY CAT6A CABLES. 8.NERWORKING DATA) FOR NOC = BLUE DATA JACKS WITH BLUE CAT6A CABLES. 9.THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE 'J' HOOKS AND CONDUIT SLEEVES THROUGH WALLS FOR LOW VOLTAGE CABLE ROUTING AS REQUIRED.
B	ALL LOW VOLTAGE WIRING SHALL BE 'PLENUM' RATED.
C	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 'J-HOOK' TYPE LOW VOLTAGE CABLE WIRING SUPPORT ON 4'-0" CENTERS ABOVE SUSPENDED ACOUSTIC CEILINGS BETWEEN CONDUIT WALL STUBS AND CABLE TRAY, ETC. ALL LOW VOLTAGE WIRING SHALL BE INDEPENDANTLY SUPPORTED SEPARATE FROM GRID TYPE CEILINGS, NO EXCEPTIONS.
D	ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LOW VOLTAGE WIRING, DATA JACKS, ETC. FOR A COMPLETE SYSTEM FOR THIS PROJECT.
E	ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL DATA AND A/V SYSTEM PATCH CORDS.

2 PHOTO #1
NTS



NORTH

1 1ST FLOOR-LOW VOLTAGE - AREA A
1/8" = 1'-0"

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Project Title: WESTERN TECHNICAL COLLEGE
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: 1ST FL. ELECTRICAL LOW VOLTAGE PLAN - AREA A

HSR Project Number: 24061

Project Date: FEB 2025

Drawn By: PLP

Key Plan:

Revisions:

No.	Description	Date

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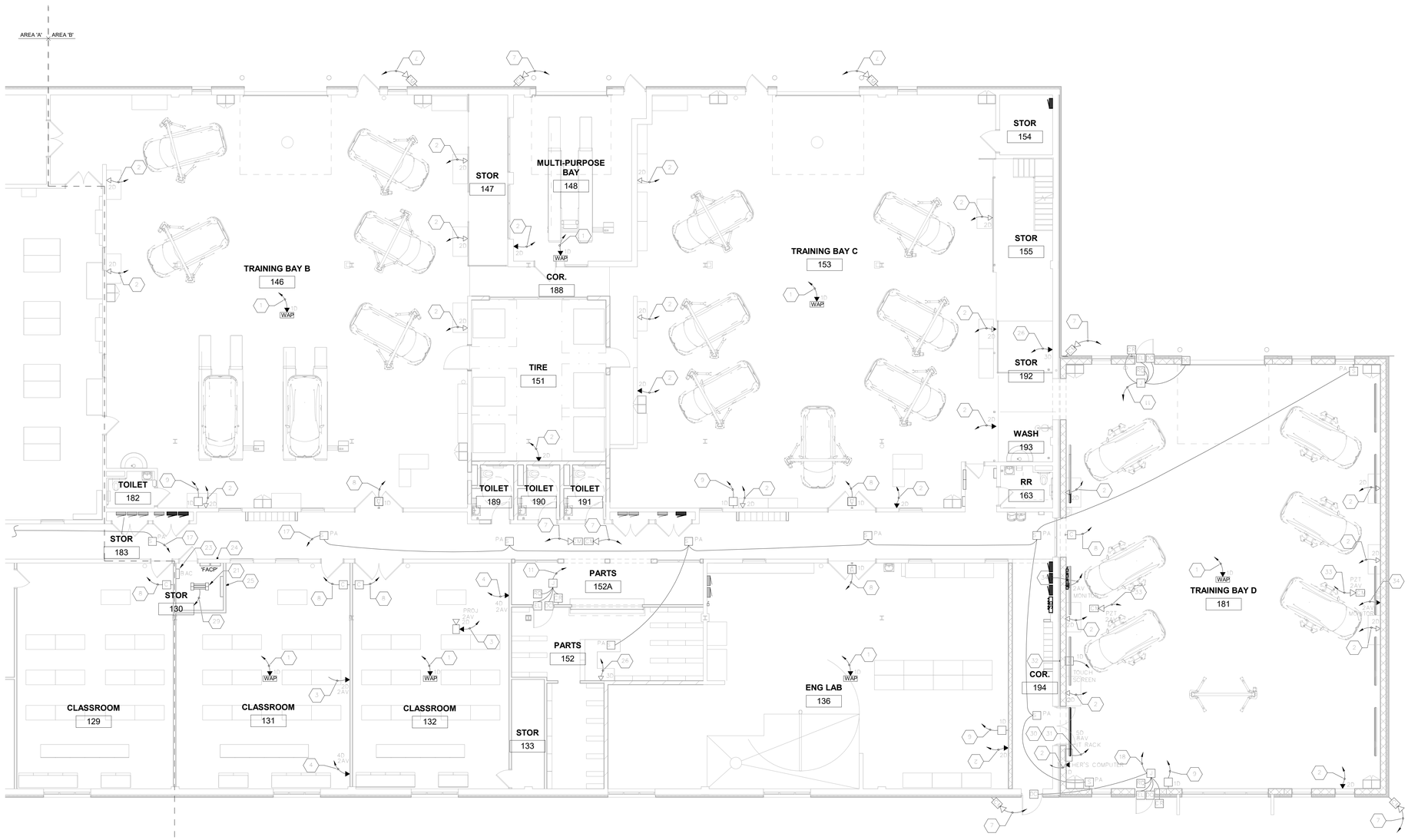
Last Update: 2/21/2025 2:37:27 PM

E301



NORTH

1 1ST FLOOR-LOW VOLTAGE - AREA B

1/8" = 1'-0"

GENERAL NOTES - LOW VOLTAGE	
NUMBER	DESCRIPTION
A	COLOR CODING SHALL BE AS FOLLOWS: 1.NETWORKING (DATA) = ORANGE DATA JACKS WITH BLUE CAT6A CABLES. 2.IP PHONE = ORANGE DATA JACKS WITH BLUE CAT6A CABLES 3.AUDIO/VIDEO (A/V) = GREEN DATA JACKS WITH GREEN CATE 6A CABLE 4.SECURITY CAMERAS = WHITE JACKS WITH WHITE CAT6A CABLE 5.ELECTRONIC DOOR ACCESS SYSTEM = YELLOW MULTI-ELEMENT SMART CABLE 6.HVAC CONTROLS = PURPLE JACKS WITH PURPLE CAT6A CABLES. 7.NETWORKING (DATA) FOR STUDENTS = GRAY DATA JACKS WITH GRAY CAT6A CABLES. 8.NERWORKING DATA) FOR NOC = BLUE DATA JACKS WITH BLUE CAT6A CABLES. 9.THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE 'J' HOOKS AND CONDUIT SLEEVES THROUGH WALLS FOR LOW VOLTAGE CABLE ROUTING AS REQUIRED.
B	ALL LOW VOLTAGE WIRING SHALL BE 'PLENUM' RATED.
C	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 'J-HOOK' TYPE LOW VOLTAGE CABLE WIRING SUPPORT ON 4'-0" CENTERS ABOVE SUSPENDED ACOUSTIC CEILINGS BETWEEN CONDUIT WALL STUBS AND CABLE TRAY, ETC. ALL LOW VOLTAGE WIRING SHALL BE INDEPENDANTLY SUPPORTED SEPARATE FROM GRID TYPE CEILINGS, NO EXCEPTIONS.
D	ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LOW VOLTAGE WIRING, DATA JACKS, ETC. FOR A COMPLETE SYSTEM FOR THIS PROJECT.
E	ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL DATA AND A/V SYSTEM PATCH CORDS.

KEYED NOTES - LOW VOLTAGE	
NUMBER	DESCRIPTION
1	APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN WIRELESS ACCESS POINT AND EXISTING IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL. COORDINATE WITH WTC IT DEPARTMENT.
2	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND EXISTING IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE 1" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN. IF EXISTING JUNCTION BOXES AND CONDUIT ARE AVAILABLE IT SHALL BE ALLOWED TO REUSE.
3	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR WALL-MONITOR AND/OR OVERHEAD PROJECTOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN WALL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED FOR DATA/AV WIRING.
4	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SIX-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING AS REQUIRED.
5	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT DATA JACK AT THIS APPROXIMATE LOCATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN WALL FOR DATA WIRING, STUB TWO (2) 1" EMT CONDUITS TO ABOVE SUSPENDED CEILING, PROVIDE PLASTIC BUSHINGS ON END OF CONDUIT ABOVE CEILING.
6	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK FOR WALL-MOUNTED MONITOR. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS.
7	ELECTRICAL CONTRACTOR SHALL INSTALL A SECURITY IP CCTV CAMERA WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
8	ELECTRICAL CONTRACTOR SHALL INSTALL A DIGITAL CLOCK WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT. REUSE EXISTING BACKBOX FROM PREVIOUSLY REMOVED CLOCK IF AVAILABLE, PROVIDE A CUSTOM COVER PLATE AS REQUIRED.
9	ELECTRICAL CONTRACTOR SHALL RECONNECT AN EXISTING 'ALERTIS' SYSTEM DEVICE IN THIS APPROXIMATE LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
10	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130 AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE 1" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
11	ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SMART CABLE' HOMERUN TO EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN STORAGE ROOM #130. SMART CABLE SHALL BE BELDEN, MODEL #6584FJ OR EQUAL, 16 CONDUCTOR, 4 ELEMENT, ACESS CONTROL CABLE. REFER TO ELECTRONIC DOOR ACCESS CONROL DETAIL 3/E401.
12	INSTALL CARD READER ON EXTERIOR METAL PEDESTAL. REFER TO PHOTO #1/E301 FOR EXAMPLE.
13	EXTERIOR METAL POST PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
14	ELECTRICAL CONTRACTOR SHALL INSTALL A 'HARD-WIRED' LOW VOLTAGE PADDLE SWITCH ON EXTERIOR METAL PEDESTAL FOR MOTORIZED ASSISTED DOOR OPENER PROVIDED BY GENERAL CONTRACTOR. PROVIDE LOW VOLTAGE WIRING AS REQUIRED BETWEEN PADDLE SWITCH AND DOOR CONTROLLER.
15	ELECTRICAL CONTRACTOR SHALL INSTALL A 'HARD-WIRED' LOW VOLTAGE PADDLE SWITCH ON INTERIOR WALL FOR MOTORIZED ASSISTED DOOR OPENER PROVIDED BY GENERAL CONTRACTOR. PROVIDE LOW VOLTAGE WIRING AS REQUIRED BETWEEN PADDLE SWITCH AND DOOR CONTROLLER.
16	REINSTALL PREVIOUSLY REMOVED LOW VOLTAGE SWITCH TO UNLOCK AND LOCK FRONT EXTERIOR DOOR. INSTALLATION SHALL MATCH ORIGINAL INSTALLATION PRIOR TO REMOVAL. PROVIDE LOW VOLTAGE AS REQUIRED BETWEEN SWITCH AND EXISTING ELECTRONIC ACCESS DOOR CONTROL PANEL.
17	PROVIDE #18/2 PLENUM RATED LOW VOLTAGE CABLE AS RECOMMENDED BY PUBLIC ADDRESS SPEAKER MANUFACFURER AND CONNECT TO EXISTING AMPLIFIER LOCATED IN STORAGE ROOM #130.
18	ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SMART CABLE' HOMERUN TO EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN STORAGE ROOM #130. SMART CABLE SHALL BE BELDEN, MODEL #6584FJ OR EQUAL, 16 CONDUCTOR, 4 ELEMENT, ACESS CONTROL CABLE. 18-04 + 22-3P + 22-02 + 22-04 PLENUM YELLOW COLOR. REFER TO ELECTRONIC DOOR ACCESS CONROL DETAIL 3/E401. PLEASE NOTE ELECTRICAL CONTRACTOR TO ROUGH-IN CONDUIT AND LOW VOLTAGE WIRING FOR 'FUTURE' DOOR ACCESS CONTROL DEVICES TO BE INSTALLED AT A LATE DATE.
19	PROVIDE A 18/4 LOW VOLTAGE CABLE AS RECOMMENDED BY DOOR ACCESS CONTROL SYSTEM SUB-CONTRACTOR FOR DOOR CONTACT SWITCH AND TERMINATE AT EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN STORAGE ROOM #130.
20	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR WALL-MONITOR. PROVIDE ONE (1) NETWORK CAT6A CABLE TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN WALL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX LOCATED IN CLASSROOM 120. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED FOR DATA/AV WIRING.
21	EXISTING NETWORK EQUIPMENT RACK TO REMAIN. IT WILL BE REQUIRED FOR THE ELECTRICAL CONTRACTOR TO UPGRADE EXISTING CAT5E PATCH PANELS WITH 'NEW' CAT6A PATCH PANELS AS REQUIRED FOR REMODEL PROJECT.
22	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EIGHT-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE TWO (2) NETWORK CAT6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE SIX (6) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND WALL-MONITOR JUNCTION BOXES LOCATED IN LOUNGE 119 AND CLASSROOM 120 OVERHEAD PROJECTOR. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING AS REQUIRED. COORDINATE WITH WTC IT DEPARTMENT.
23	LOCATION OF EXISTING ELECTRONIC DOOR ACCESS CONTROL PANEL AN POWER SUPPLIES.
24	LOCATION OF EXISTING EDWARDS (EST) FIRE ALARM CONTROL PANLEL AND ASSOCIATED NAC PANEL.
25	LOCATION OF EXISTING MITEL PUBLIC ADDRESS SYSTEM PAGING, ALERTIS AND VALCOM HEAD-END EQUIPMENT.
26	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE-PORT DATA JACK AT THIS APPROXIMATE LOCATION. PROVIDE THREE (3) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN WALL FOR DATA WIRING, STUB TWO (2) 1" EMT CONDUITS TO ABOVE SUSPENDED CEILING, PROVIDE PLASTIC BUSHINGS ON END OF CONDUIT ABOVE CEILING.
27	REUSE EXISTING POWER POLE TO THE EXTENT POSSIBLE. PROVIDE A NEW POWER POLE ADJACENT TO EXISTING ONE IF MORE RACEWAY IS REQUIRED FOR CABLE FILL.
28	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SIX - PORT DATA JACK AT THIS APPROXIMATE LOCATION. PROVIDE SIX (6) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #130.
29	ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID TO PROVIDE 415'-0" OF NEW REPLACEMENT 12-STRAND, SINGLE-MODE FIBER-OPTIC CABLE. THIS CABLE SHALL BE ROUTED UNDERGROUND IN EXISTING CONDUIT BETWEEN WTC AUTOMOTIVE STORAGE ROOM #130 AND WTC DIESEL BUILDING MDF ROOM. IT SHALL BE REQUIRED FOR BIDDING CONTRACTOR TO VISIT SITE PRIOR TO SUBMITTING BID TO DETERMINE SCOPE OF WORK PRIOR TO BIDDING PROJECT. COORDINATE WITH WTC IT DEPARTMENT. INCLUDE AS AN ALTERNATE BID.
30	LOCATION OF NEW WALL-MOUNTED IT EQUIPMENT RACK PROVIDED BY WTC IT DEPARTMENT, INSTALLED BY ELECTRICAL CONTRACTOR.
31	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THIRTEEN (13) COMBINATION DATA/AV CABLES AT THIS WALL-MOUNTED IT EQUIPMENT RACK FOR TEACHER'S CUSTOM PAN-ZOOM-TITLT (PZT) CAMERA SYSTEM. PROVIDE FIVE (5) NETWORK CAT6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM #130. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN WALL-MOUNTED IT EQUIPMENT RACK AND EACH CEILING MOUNTED PAN-ZOOM-TILT (PZT) CAMERAS (2-CAMERAS TOTAL). TWO (2) SHIELDED CAT6 A/V CABLES BETWEEN WALL-MOUNTED IT EQUIPMENT RACK AND EACH WALL-MOUNTED MONITOR (2-TOTAL) ONE LOCATED ON NORTH WALL AND ONE LOCATED ON SOUTH WALL. PROVIDE SURFACE WIREMOLD AND/OR EMT CONDUIT, JUNCTION BOXES AND RACEWAY SIZED AS REQUIRED FOR CABLE ROUTING. COORDINATE WITH WTC IT DEPARTMENT. TERMINATE EACH END OF CABLES.
32	LOCATION OF CUSTOM PAN-ZOOM-TILT (PZT) CAMERA SYSTEM TOUCH SCREEN PROVIDED BY WTC IT DEPARTMENT, INSTALLED BY EC. PROVIDE ONE (1) CAT6A DATA CABLE BETWEEN TOUCH SCREEN AND WALL-MOUNTED IT EQUIPMENT RACK LOCATED IN THIS ROOM, TERMINATE BOTH ENDS OF CABLE. PROVIDE JUNCTION BOX AND 1" EMT CONDUIT BETWEEN TOUCH SCREEN AND WALL-MOUNTED IT EQUIPMENT RACK.
33	ELECTRICAL CONTRACTOR SHALL INSTALL A PAN-ZOOM-TILT (PZT) CAMERA PROVIDED BY WTC IT DEPARTMENT. PROVIDE TWO (2) CAT6A SHIELDED CABLES BETWEEN PZT CAMERA AND WALL-MOUNTED IT EQUIPMENT RACK IN THIS ROOM AND TERMINATE BOTH ENDS OF EACH CABLE. PROVIDE EMT CONDUIT RACEWAY AS REQUIRED.
34	ELECTRICAL CONTRACTOR SHALL INSTALL A LARGE SCREEN MONITOR PROVIDED BY WTC IT DEPARTMENT. PROVIDE TWO (2) CAT6A SHIELDED CABLES BETWEEN LARGE SCREEN MONITOR AND WALL-MOUNTED IT EQUIPMENT RACK IN THIS ROOM AND TERMINATE BOTH ENDS OF EACH CABLE. PROVIDE EMT CONDUIT RACEWAY AS REQUIRED.
35	PROVIDE A QUAM, 8" DIAMETER, PUBLIC ADDRESS SPEAKER, MODEL NUMBER AS FOLLOWS: LOUDSPEAKER – 8C10PAX TRANSFORMER – 5 WAT, 25/70 VOLT WITH TAPS BAFFLE – BR8WS BACKBOX – ERD8U MOUNTING SUPPORT – SSB-3
36	PROVIDE A QUAM, PUBLIC ADDRESS SYSTEM PAGING HORN WITH UNIVERSAL MOUNT, BEIGE FINISH COLOR, 16 WATT, 25/70 VOLTS, MODEL #QH16T.

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Project Title: WESTERN TECHNICAL COLLEGE
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: 1ST FL. ELECTRICAL LOW VOLTAGE PLAN - AREA B

HSR Project Number: 24061

Project Date: FEB 2025

Drawn By: PLP

Key Plan:

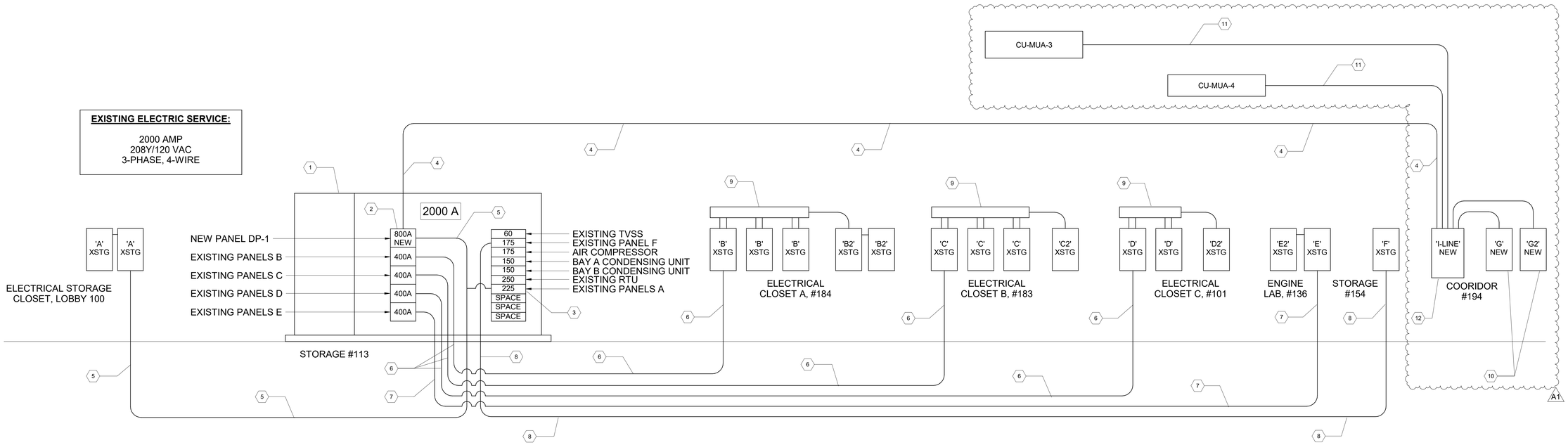
Revisions:

No.	Description	Date

Graphic Scale: VARIES

Last Update: 2/21/2025 2:37:31 PM

E302



1 RISER-WTC AUTO-24061-2-10-2025

12" = 1'-0"

GENERAL NOTES - POWER

NUMBER	DESCRIPTION
A	PERFORM UPDATED ARC FLASH STUDY BEFORE ORDERING GEAR AND PANELS TO MEET REQUIRED KAIC.
B	*** NOTE *** FEEDERS SHOWN MAY BE OVERSIZED TO COMPENSATE FOR VOLTAGE DROP.
C	PROVIDE SQUARE 'D' PANELBOARS ONLY, NO EQUALS ACCEPTED.
D	WORK PERFORMED IN NON-REMODELED AREAS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AND PATCHING OF WALLS AND CEILINGS. TYPICAL
E	

KEYNOTES - RISER

NUMBER	DESCRIPTION
1	EXISTING SQUARE 'D' QED 2,000 AMP., 120/208VAC, 3-PHASE, 4-WIRE SWITCHBOARD TO REMAIN AS IS. PLEASE NOTE SWITCHBOARD IS RATED FOR 65,000 AMPS (KAIC). AVAILABLE FAULT CURRENT. IT WILL BE REQUIRED TO PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED FOR THIS PROJECT.
2	DISCONNECT AND RELOCATE EXISTING 225 AMP. 3-POLE, 65K AIC CIRCUIT BREAKER FROM THIS SPACE AND MOVE TO LOWER-RIGHT SIDE OF SWITCHBOARD. REFER TO KEYED NOTE #3. THIS CIRCUIT BREAKER FEEDS EXISTING PANELBOARD 'A'. PLEASE NOTE A NEW 400 AMP., 3-POLE, 65K AIC CIRCUIT BREAKER SHALL BE INSTALLED IN THIS LOCATION. NEW CIRCUIT BREAKER WILL FEED NEW PANELBOARD 'G'.
3	REINSTALL A PREVIOUSLY REMOVED 225 AMP., 3-POLE, 65K AIC CIRCUIT BREAKER IN THIS BLANK SPACE. REFER TO KEYED NOTE #2.
4	PROVIDE A NEW 800 AMP, 120/208VAC, 3-PHASE FEEDER FOR NEW I-LINE DISTRIBUTION PANEL. FEEDERS TO BE THREE (3) PARALLEL RUNS OF 500 KCMIL THESE FEEDERS ARE UPSIZED TO COMPENSATE FOR VOLTAGE DROP.
5	DISCONNECT EXISTING FEEDER ENERGIZING EXISTING PANELBOARD 'A' AND RECONNECT TO RELOCATED 225 AMP., 3-POLE CIRCUIT BREAKER.
6	EXISTING 400 AMP., 120/208VAC, 3-PHASE UNDERGROUND FEEDER TO REMAIN AS IS, FEEDING EXISTING PANELBOARDS 'B', 'C' & 'D'
7	EXISTING 225 AMP. 120/208VAC, 3-PHASE UNDERGROUND FEEDER TO REMAIN AS IS, FEEDING EXISTING PANELBOARDS 'E'.
8	EXISTING 175 AMP. 120/208VAC, 3-PHASE UNDERGROUND FEEDER TO REMAIN AS IS, FEEDING EXISTING PANELBOARDS 'F'.
9	EXISTING WIREWAY TO REMAIN AS IS.
10	PROVIDE A NEW 225 AMP., 120/208VAC, 3-PHASE, 4-WIRE, 65K AIC PANELBOARD AS NOTED IN PANELBOARD SCHEDULE.
11	PROVIDE A NEW 250 AMP., 120/208VAC, 3-PHASE BRANCH CIRCUIT FOR NEW CONDENSING UNITS CU-MUA-3 & CU-MUA-4.
12	PROVIDE NEW 800 A SQUARE D I-LINE DISTRIBUTION PANEL, 120/208VAC, 3-PHASE, 65K AIC. BREAKERS TO BE INSTALLED AS FOLLOWS: 400 A TRIP, PANEL G 400 A TRIP, PANEL G2 250 A TRIP, CU-MUA-3 250 A TRIP, CU-MUA-4

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: **2721 LARSON STREET**
LA CROSSE, WI 54603

Sheet Title: **ELECTRICAL RISER PLAN**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **PCP**

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #1	02-24-2025

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:37:31 PM**

E400

Wire Management Products
Cord and Cable Reels
Industrial Power Cord Reels

HUBBELL

Features

- Cast Aluminum Housing and Base
- UL Type 1
- Multi-Position Guide Arm can be mounted in two different positions
- Ratchet lock automatically maintains desired cord length or can be disengaged in the field for constant tension applications
- Class A GFCI with open neutral protection
- High impact polyurethane portable outlet box with tamper resistant receptacles

Ordering Information

Description	UPC Number	Catalog Number
White Industrial Reel with Black Box, GFCI Module and (2) 20A Tamper Resistant Duplex Receptacles, UL Type 1, 45 Ft., #12/3 SJO, 20 A, 125 VAC	783585586410	**HBL45123GF220M1**

Component Listings and Applicable Codes

UL355 and CSA, C22.2 No. 308
UL514B PO8 Strain Relief Cable Gland
UL943 Open Neutral Protection
2017 NFPA 70 (NEC) Article 590.6(A)(1)
2020 NFPA 70 (NEC) Article 406.12

Specifications

Spool	Aluminum
Guide Frame	Thermoplastic
Cord	Copper
Internal Terminals	Copper Alloy
Ball Stopper	Thermoplastic
Fitting	Aluminum

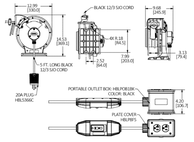
Performance

Amperage
20 A

Max. Working Voltage
125V AC

Moisture Resistance
Dry, Indoor, Non-Hazardous Locations - UL Type 1

Number of Wires
3-Wire



Related Products

Pivot Base	HBLI340PB
Mounting Bracket	HBLIMB
Mounting Bracket w/ Junction Box	HBLIMBJ
Plenum Cord Reel Enclosure	HBLIPRBOX

Online Resources

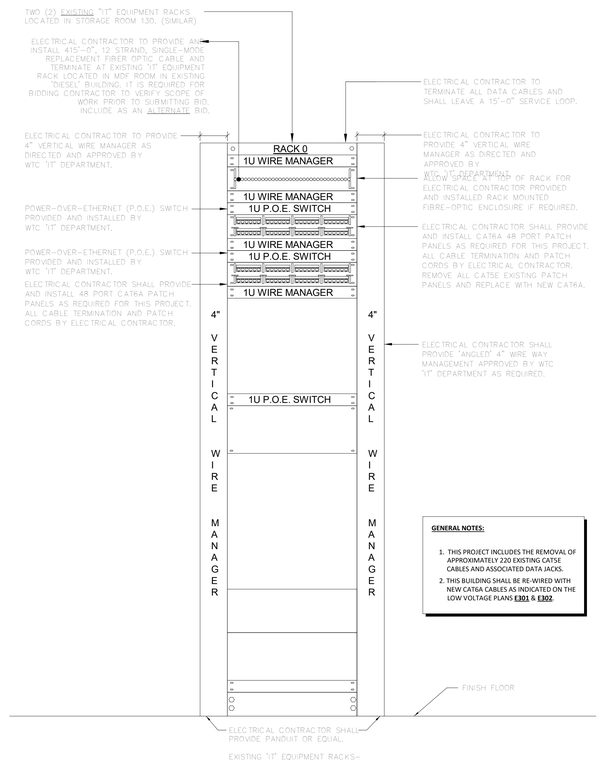
Customer Drawing
Customer Sales Drawings
eCatalog
Installation/Instruction Manual

Dimensions in Inches (mm)

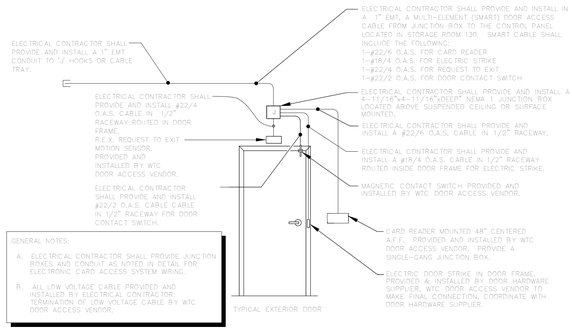
Hubbell Wiring Device-Kellems • Hubbell Incorporated (Delaware) • 40 Waterview Drive • Shelton, CT 06484
Phone (800) 288-6000 • Fax (800) 255-1031 • Specifications subject to change without notice.

HUBBELL Wiring Device-Kellems

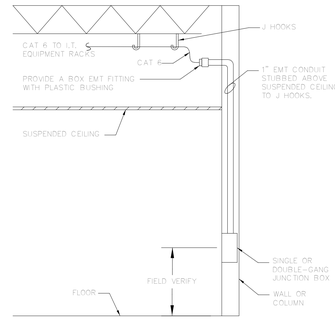
1 POWER CORD REEL DETAIL
NTS



2 'IT' EQUIPMENT RACK DETAIL
NTS



3 ELECTRONIC DOOR ACCESS CONTROL DETAIL
NTS



4 JUNCTION BOX DETAIL
NTS

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: **ELECTRICAL DETAILS**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **Author**

Key Plan:

Revisions:

No.	Description	Date

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:37:31 PM**

E401

Switchboard: MDP

Location: STOR 113 **Volts:** 120/208 Wye **A.I.C. Rating:**
Supply From: **Phases:** 3 **Mains Type:**
Mounting: **Wires:** 4 **Mains Rating:**
Enclosure: **MCB Rating:** 2000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1						
2	PANEL B --- EXISTING	3	800 A	400 A	8280 VA	
3	PANEL C --- EXISTING	3	800 A	400 A	8280 VA	
4	PANEL D --- EXISTING	3	800 A	400 A	0 VA	
5	PANEL E --- EXISTING	3	400 A	225 A	0 VA	
6	TVSS MDP --- EXISTING	3	250 A	60 A	0 VA	
7	PANEL F --- EXISTING	3	400 A	175 A	0 VA	
8	AIR COMPRESSOR - EXISTING	3	250 A	175 A	0 VA	
9	CU 20 BAY A --- EXISTING	3	250 A	150 A	0 VA	
10	CU 21 BAY B --- EXISTING	3	250 A	150 A	0 VA	
11	NEW---RTU-1 --- EXISTING BREAKER	3	400 A	250 A	64800 VA	
12	PANEL A --- EXISTING, RELOCATED FROM #1	3	250 A	225 A	0 VA	
13						
14		1	--	--	--	
15		1	--	--	--	
				Total Conn. Load:	81360 VA	
				Total Amps:	226 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	64800 VA	125.00%	81000 VA		
Other	16560 VA	100.00%	16560 VA	**Total Conn. Load:**	81360 VA
Receptacle	0 VA	0.00%	0 VA	**Total Est. Demand:**	97560 VA
				Total Conn.:	226 A
				Total Est. Demand:	271 A

Notes:

Switchboard: DP1

Location: COR. 194 **Volts:** 120/208 Wye **A.I.C. Rating:** 65000
Supply From: **Phases:** 3 **Mains Type:**
Mounting: **Wires:** 4 **Mains Rating:** 800 A
Enclosure: **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	G	3	400 A	400 A	70726 VA	
2	G2	3	400 A	400 A	46102 VA	
3	CU-MUA-3, Roof of Bay D, West	3	400 A	250 A	75960 VA	
4	CU-MUA-4, Roof of Bay D, East	3	400 A	250 A	75960 VA	
5						
6						
7						
8						
				Total Conn. Load:	265333 VA	
				Total Amps:	736 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	75960 VA	125.00%	94950 VA		
Other	125542 VA	100.00%	125542 VA	**Total Conn. Load:**	265333 VA
Receptacle	67484 VA	57.41%	38742 VA	**Total Est. Demand:**	256858 VA
				Total Conn.:	736 A
				Total Est. Demand:	713 A

Notes:

Branch Panel: G

Location: COR. 194 **Volts:** 120/208 Wye **A.I.C. Rating:**
Supply From: DP1 **Phases:** 3 **Mains Type:**
Mounting: **Wires:** 4 **Mains Rating:**
Enclosure: **MCB Rating:** 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle	20 A	1	180 VA	360 VA					1	20 A	Receptacle	2
3	Receptacle	20 A	1			180 VA	360 VA			1	20 A	Receptacle	4
5	Receptacle	20 A	1					360 VA	360 VA	1	20 A	Receptacle	6
7	Receptacle	20 A	1	360 VA	360 VA					1	20 A	Receptacle	8
9	Receptacle	20 A	1			360 VA	360 VA			1	20 A	Receptacle	10
11	Receptacle	20 A	1					360 VA	360 VA	1	20 A	Receptacle	12
13	Receptacle	20 A	1	180 VA	360 VA					1	20 A	Receptacle	14
15	Receptacle	20 A	1			180 VA	360 VA			1	20 A	Receptacle	16
17	Receptacle	20 A	1					180 VA	360 VA	1	20 A	Receptacle	18
19	Receptacle	20 A	1	360 VA	360 VA					1	20 A	Receptacle	20
21	Receptacle	20 A	1			360 VA	360 VA			1	20 A	Receptacle	22
23	Receptacle	20 A	1					360 VA	360 VA	1	20 A	Receptacle	24
25	Receptacle	20 A	1	360 VA	360 VA					1	20 A	Receptacle	26
27	Receptacle	20 A	1			360 VA	180 VA			1	20 A	Receptacle	28
29	Receptacle	20 A	1					360 VA	360 VA	1	20 A	Cord Reel Hoist #D1	30
31	Cord Reel Hoist #D2	20 A	1	360 VA	360 VA					1	20 A	Cord Reel Hoist #D3	32
33	Cord Reel Hoist #D4	20 A	1			360 VA	360 VA			1	20 A	Cord Reel Hoist #D5	34
35	Cord Reel Hoist #D6	20 A	1					360 VA	360 VA	1	20 A	Cord Reel Hoist #D7	36
37	Cord Reel SW Flat Bay	20 A	1	360 VA	360 VA					1	20 A	Cord Reel NW Flat Bay	38
39	Cord Reel SE Flat Bay	20 A	1			360 VA	360 VA			1	20 A	Cord Reel NE Flat Bay	40
41	Welding Receptacle D-South	50 A	2					7200...	7200...	2	50 A	Welding Receptacle D-North	42
43	--	--	--	7200...	7200...					--	--	--	44
45	EV Level 2 Charger Receptacle D-South	50 A	2			7200...	0 VA			1	20 A	Spare (for load balancing)	46
47	--	--	--					7200...	0 VA	1	20 A	Spare (for load balancing)	48
49	Overhead Door Operator D	20 A	1	960 VA	7200...					2	50 A	EV Level 2 Charger Receptacle D-North	50
51							7200...			--	--	--	52
53													54
				Total Load:	26789 VA		18554 VA		25390 VA				
				Total Amps:	232 A		155 A		220 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	960 VA	125.00%	1200 VA		
Other	3960 VA	100.00%	3960 VA	**Total Conn. Load:**	70726 VA
Receptacle	66150 VA	57.56%	38075 VA	**Total Est. Demand:**	42894 VA
				Total Conn.:	196 A
				Total Est. Demand:	119 A

Notes:

Branch Panel: G2

Location: COR. 194 **Volts:** 120/208 Wye **A.I.C. Rating:**
Supply From: DP1 **Phases:** 3 **Mains Type:**
Mounting: **Wires:** 4 **Mains Rating:**
Enclosure: **MCB Rating:** 1 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Hoist #D1	20 A	2	1664...	1664...					2	20 A	Hoist #D2	2
3	--	--	--			1664...	1664...			--	--	--	4
5	VES #D1	20 A	3					384 VA	384 VA	3	20 A	VES #D2	6
7	--	--	--	384 VA	384 VA					--	--	--	8
9	--	--	--			384 VA	384 VA			--	--	--	10
11	Hoist #D3	20 A	2					1664...	1664...	2	20 A	Hoist #D4	12
13	--	--	--	1664...	1664...					--	--	--	14
15	VES #D3	20 A	3			384 VA	384 VA			3	20 A	VES #D4	16
17	--	--	--					384 VA	384 VA	--	--	--	18
19	--	--	--	384 VA	384 VA					--	--	--	20
21	Hoist #D5	20 A	2			1664...	1664...			2	20 A	Hoist #D6	22
23	--	--	--					1664...	1664...	--	--	--	24
25	VES #D5	20 A	3	384 VA	384 VA					3	20 A	VES #D6	26
27	--	--	--			384 VA	384 VA			--	--	--	28
29	--	--	--					384 VA	384 VA	--	--	--	30
31	Hoist #D7	20 A	2	1664...	1176...					1	20 A	Other	32
33	--	--	--			1664...	180 VA			1	20 A	Receptacle - Exterior NE	34
35	VES #D7	20 A	3					384 VA	180 VA	1	20 A	Receptacle - Exterior N	36
37	--	--	--	384 VA	180 VA					1	20 A	Receptacle - Exterior N	38
39	--	--	--			384 VA	180 VA			1	20 A	Receptacle - Exterior NW	40
41	Receptacle - Exterior WN	20 A	1					180 VA	180 VA	1	20 A	Receptacle - Exterior WCenter	42
43	Receptacle - Exterior WS	20 A	1	180 VA	180 VA					1	20 A	Receptacle - Exterior E	44
45	RX-1	20 A	1			1950...	3000...			3	20 A	MUA-4 (Bay D roof)	46
47	Other	20 A	1					1176...	3000...	--	--	--	48
49					3000...					--	--	--	50
51													52
53													54
55													56
57													58
59													60
61													62
63													64
65													66
67													68
69													70
71													72
				Total Load:	15724 VA		16318 VA		14060 VA				
				Total Amps:	133 A		138 A		117 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	9000 VA	125.00%	11250 VA		
Other	35662 VA	100.00%	35662 VA	**Total Conn. Load:**	46102 VA
Receptacle	1440 VA	100.00%	1440 VA	**Total Est. Demand:**	48352 VA
				Total Conn.:	128 A
				Total Est. Demand:	134 A

Notes:

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: **2721 LARSON STREET**
LA CROSSE, WI 54603

Sheet Title: **ELECTRICAL PANEL SCHEDULES**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **PCP**

Key Plan:

Revisions:

No.	Description	Date
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Graphic Scale: **VARIES**

A1

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E500

SHEET E500 ADDED VIA ADDENDUM #1

General System Notes

ON DIGITAL SYSTEMS, ALL DEVICES TO BE CONNECTED IN A DAISY CHAIN PATTERN SO THAT THE FIRST AND LAST DEVICE IN THE CHAIN HAS AN OPEN PORT.

ON DIGITAL SYSTEMS, CONTRACTOR SHALL NOTE AND LABEL ADDRESS AND LOCATION OF EACH DEVICE ON THE SYSTEM ONE-LINE DIAGRAMS OR SYSTEM LAYOUT DRAWINGS AT TIME OF INSTALLATION.

ONE-LINE DIAGRAMS INDICATE THE REQUIRED GROUPING OF WIRES, NOT THE NUMBER OR SIZE OF CONDUITS.

WIRING SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL CODES, INCLUDING PROVISION OF EQUIPMENT GROUNDING AS REQUIRED BY THE NEC.

POWER CONDUCTORS SHALL BE SIZED PER THE NEC AMPACITY TABLES (ARTICLE 310), INCLUDING ADJUSTMENT FACTOR AND NEUTRAL CONDUCTOR REQUIREMENTS (FEED AND BRANCH NEUTRAL CONDUCTORS MUST BE COUNTED AS CURRENT CARRYING CONDUCTORS). RUN SEPARATE NEUTRAL CONDUCTORS FOR EACH DIMMED LOAD CIRCUIT.

FOR 0-10VDC DIMMING SYSTEMS, VIOLET AND GRAY/PINK CONDUCTORS ARE FOR 0-10VDC LOW VOLTAGE TERMINATIONS ONLY. NEVER TERMINATE LINE VOLTAGE (120/230/277VAC) TO VIOLET AND GRAY/PINK.

CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL TERMINATIONS. NO SPLICES ARE PERMITTED IN CAT5/6 CONTROL WIRING.

LIGHTING CONTROL EQUIPMENT MUST BE INSTALLED, MAINTAINED, AND OPERATED IN AN "OFFICE CLEAN" DRY ENVIRONMENT, INDOOR DRY LOCATIONS ONLY, 10% - 90% RELATIVE HUMIDITY; AMBIENT TEMPERATURE 0°- 40°C (32°-104°F) - 0°- 35°C (32°- 95°F) RECOMMENDED.

SENSORS IN ELECTRICAL/MECHANICAL LOCATIONS NEED TO BE VERIFIED WITH AUTHORITY HAVING JURISDICTION. REFER TO NEC 110.26.D.

VERIFY MAXIMUM CABLE LENGTHS BASED ON CONTROL SYSTEM. MANUFACTURER IS NOT RESPONSIBLE FOR SYSTEMS EXCEEDING CABLING PARAMETERS.

LOW VOLTAGE CABLE MUST BE INSTALLED AT LEAST 12 INCHES FROM ALL LINE VOLTAGE CONDUCTORS EXCEPT TO CROSS OR MAKE TERMINATIONS. CAT. 5 CABLE MUST BE KEPT AWAY FROM ALL EMF DEVICES SUCH AS BALLASTS OR TRANSFORMERS.

0-10V DIMMING BALLASTS AND DRIVERS ARE REQUIRED TO COMPLY WITH IEC 60929 ANNEX E SPECIFICATIONS.

nLight System Notes

EVERY NLIGHT ENABLED DEVICE (INCLUDING NLIGHT EANABLED FIXTURES) IS FURNISHED WITH (1) PERMANENTLY ADHERED ID TAG AND (1) MATCHING, PARTIALLY ADHERED ID TAG TO BE PLACED ON THE RISER DIAGRAM SHEET, OR THE LIGHTING CONTROL LAYOUT SHEET, PROVIDED AS PART OF AN NLIGHT SUBMITTAL. THIS SHALL BE DONE DURING INSTALLATION AND PRIOR TO FACTORY STARTUP. FAILURE TO COMPLY MAY RESULT IN STARTUP DELAYS AND ADDITIONAL COSTS AT THE CONTRACTOR'S EXPENSE. DO NOT PLACE DEVICE ID STICKERS ON FLOOR PLAN UNLESS REQUIRED TO EXECUTE NFLOORPLAN SERVICES, REFERENCE NFLOORPLAN SERVICE NOTES ON THIS SHEET FOR SPECIFIC REQUIREMENTS.

ONE RELAY PACK OR NLIGHT ENABLED FIXTURE IS NEEDED PER CIRCUIT/ZONE TO BE CONTROLLED AND CAN RESIDE WITHIN SENSORS, WALLPODS, OR RELAY PACKS. POWER PACK PLACEMENT ON DRAWINGS IS FOR COUNTING ONLY; FINAL PLACEMENT IS UP TO DISCRETION OF CONTRACTOR/ENGINEER. PLEASE RECHECK COUNTS TO VERIFY THE NUMBER OF RELAYS NEEDED TO SWITCH ALL DESIRED LOADS.

BRIDGES, RELAYS, POWER PACKS, WALLPODS, AND SENSORS ON DRAWINGS WERE PLACED WITH INFORMATION PROVIDED AT TIME OF DESIGN. ADDITIONAL BRIDGES AND/OR SENSORS MAY BE REQUIRED DEPENDING ON BUILDING CHANGES, FINAL PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVING HEIGHT/PLACEMENT.

THE LAYOUT OF THE NETWORK BACKBONE (BRIDGES AND GATEWAYS) HAS BEEN PLACED IN A SEPARATE TREE DIAGRAM AND NOT ON THE ACTUAL LAYOUT. FINAL PLACEMENT OF THE BRIDGE(S) AND GATEWAY(S) DEVICES SHALL BE AT THE CONTRACTOR/ENGINEER DISCRETION.

ALL DEVICES HAVE RJ-45 FEMALE PORTS, MAKING NETWORK CONTROL CABLES IS REQUIRED. T568B TERMINATIONS ARE RECOMMENDED. IT IS IMPERATIVE THAT ALL NETWORK CONTROL CABLES BE TESTED WITH A LAN CABLE TESTER TO VERIFY PROPER TERMINATIONS.

DAISY-CHAINED DEVICES SHOULD BE POWERED UP AND WORKING ON DEFAULT PROGRAMMING PRIOR TO CONNECTION TO BRIDGE OR GATEWAYS.

LOW VOLTAGE NETWORK CONTROL CABLE (CAT5/5E/6) RUNS FOR LOCAL ZONES, HOMERUNS AND BACKBONE SHOULD BE WHITE WITH CABLES LABELED.

CONTRACTOR TO VERIFY BLINK/DIAGNOSTIC CODES (VISIT HTTP://NLIGHTCONTROLS.COM/WP-CONTENT/UPLOADS/NLIGHT_POCKET_GUIDE.PDF) WHEN CONNECTING GATEWAYS/BRIDGES TO ZONES.

MAXIMUM CABLE LENGTH FROM START DEVICE TO END DEVICE IS 1500' INCLUDING HOMERUN TO BRIDGE DEVICE, IF PRESENT. MANUFACTURER IS NOT RESPONSIBLE FOR SYSTEMS EXCEEDING CABLING PARAMETERS.

Design and Assumption Notes

1. AREAS SHOWN ARE THE ONLY AREAS ASSUMED IN ACUITY SCOPE FOR THIS PROJECT.

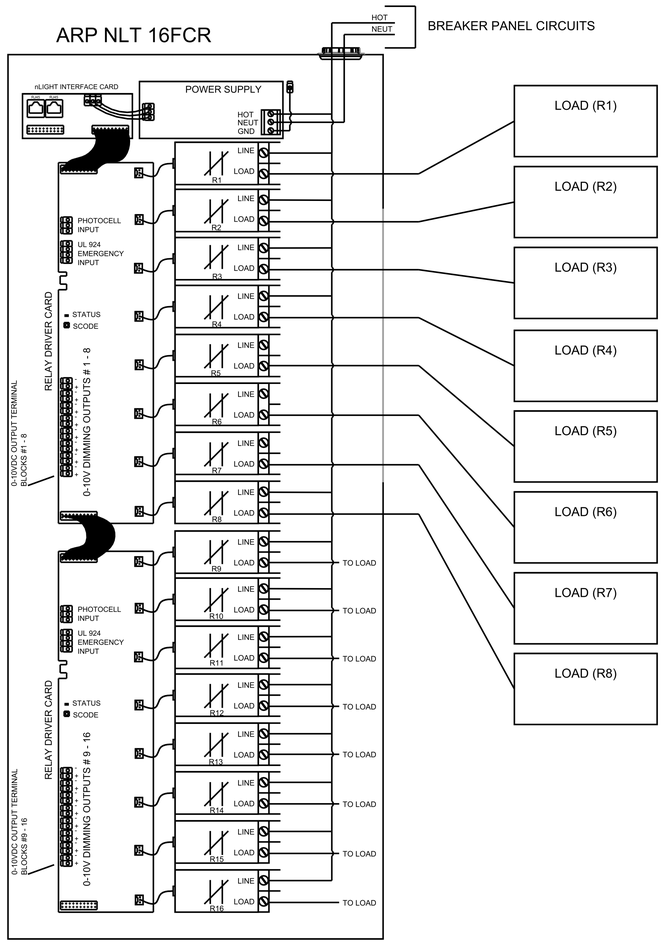
2. THE LIGHTING CONTROL DESIGN IS SUBJECT TO CHANGE BASED ON ADDITIONAL PROJECT SPECIFIC INFORMATION.

3. COMPLETE SET OF ELECTRICAL DRAWINGS AND SPECIFICATIONS NOT PROVIDED AT TIME OF LAYOUT/QUOTE REQUEST. VERIFY THIS LAYOUT/QUOTE MEETS PROJECT'S SPECIFIC REQUIREMENTS.

4. ARP RELAY PANEL(S) MUST BE POWERED BY A 120V/277V CIRCUIT.

5. A SEPARATE PHOTOCELL SENSOR (NIO PC KIT/ARPA PC) IS PROVIDED TO BE INSTALLED IN EXTERIOR. IT IS RECOMMENDED TO BE INSTALLED ON ROOF FACING NORTH.

6. IT IS THE RESPONSIBILITY OF THE PROJECT'S PROFESSIONAL ENGINEER (ENGINEER OF RECORD) TO REVIEW AND CORRECT THE CONTROL DRAWINGS FOR COMPLIANCE WITH ALL STATE AND LOCAL CODE REGULATIONS.



16 RELAY PANEL SHOWN. FOR 12 RELAY PANEL, R13 - R16 WILL BE PROVIDED AS SPACES.

TYPICAL DIAGRAM: ARP NLT 12FCR/16FCR

N.T.S.

SHEET E600 ADDED VIA ADDENDUM #1

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: **2721 LARSON STREET**
LA CROSSE, WI 54603

Sheet Title: **ELECTRICAL LIGHTING CONTROLS**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **PCP**

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #1	02-24-2025

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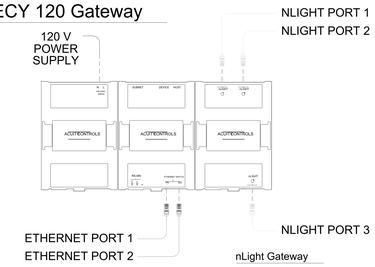
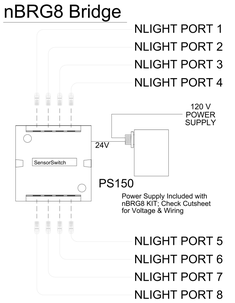
A1

E600

nECY 120 Gateway



nBRG8 Bridge

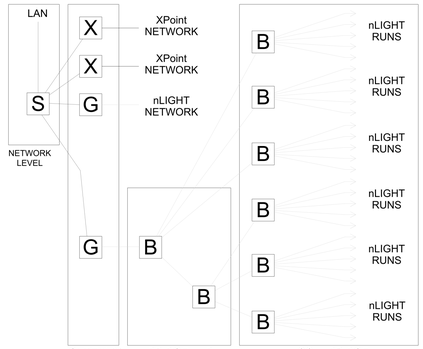


nLight Gateway

nECY 120 Eclpyse Gateway has been shown here as typical and indicative of connection types. Please refer to Gateway cutsheets for model specific features. The nECY 120 Gateway has three nLight ports; Port 1 is typicallyused to host the nLight network, port 2 is typically left spare, and port 3 is typically reserved for Gateway GFX commissioning interface. Two Ethernet ports are available with a built-in Ethernet switch. The Ethernet ports may be used to connect to a building or BMS LAN or a personal computer.

nLight Bridge

The nBRG 8 bridge features 8 nLight ports. One port is reserved for upstream communication, and any number of the remaining 7 can be used for downstream communication. Allowance of at least one spare port is typical.



NETWORK LEVEL
All nLight Gateway devices are connected over a Local Area Network. Computers on this level may connect through SensorView and building automation systems may access system offer BACnet/IP if this option is provided.

GATEWAY LEVEL
nLight Gateways on this levle will host an nLight network. The xPoint Bridge resides on this level hosting an xPoint network. Devices on this level are network visible.

BRIDGE HUB LEVEL
nLight Bridges on this level function as hubs in a star topology. The nLight network hosted by the Gateway must be routed to each bridge on the local bridge level. Each bridge hub will utilize one port to run upstream (towards the Gateway) and any number of the remaining 7 ports to feed downstream (towards nLight zone runs). Large systems will often use a tiered approach with bridge hubs running to additional bridge hubs; In these situations, the maximum number of bridge hub tiers is 8.

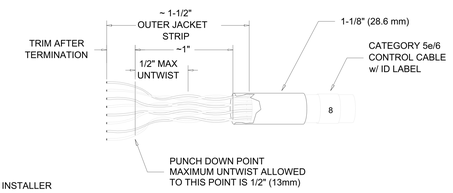
LOCAL BRIDGE LEVEL
nLight Bridges on this level utilize one port to run upstream (towards bridge hubs) and any number of the remaining 7 ports to facilitate nLight zones consisting of cat5 daisy-chained nLight lighting control devices.

NLIGHT NETWORK RISER

N.T.S.

TIA / EIA-568-B CABLING STANDARD TERMINATION

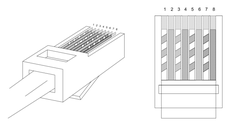
Function	PAIR #	PIN OUT (T568B)	Wire Color
(T1)	1	5	WHITE w/ BLUE
(R1)		4	BLUE
Tx + (T2)	2	1	WHITE w/ ORANGE
Tx - (R2)		2	ORANGE
Rx + (T3)	3	3	WHITE w/ GREEN
Rx - (R3)		6	GREEN
(T4)	4	7	WHITE w/ BROWN
(R4)		8	BROWN



TERMINATION & TESTING OF CAT5 CABLES MUST BE DONE BY A QUALIFIED NETWORK INSTALLER

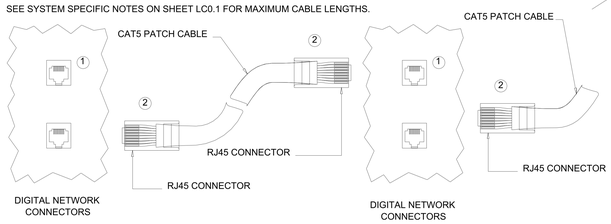
Cable termination requirements :

1. Strip off outer jacket - approximately 1-1/2" (37.6 mm)
2. Terminate approximately 1/2" (12.2 mm) from end of conductors on type 110 punch down block or connector per schedule (t568b) - maximum untwist of conductors to terminations is 1/2" (12.2 mm) - trim excess leads.



1. WHITE w/ ORANGE
2. ORANGE
3. WHITE w/ GREEN
4. BLUE
5. WHITE w/ BLUE
6. GREEN
7. WHITE w/ BROWN
8. BROWN

SEE SYSTEM SPECIFIC NOTES ON SHEET LC0.1 FOR MAXIMUM CABLE LENGTHS.



Notes:

Daisy-chain CAT5 patch cable with RJ45 connectors from digital device to digital device.

Refer to manufacturers instructions for long distance runs between digital devices.

Crimp and test each cable with a LAN circuit tester prior to installation.

(1) RJ45 FEMALE CONNECTOR

(2) RJ45 MALE CONNECTORS. ALL CABLES SUPPLIED BY CONTRACTOR.

CAT5E/6 CABLE TERMINATION

N.T.S.

SHEET E601 ADDED VIA ADDENDUM #1

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: **2721 LARSON STREET**
LA CROSSE, WI 54603

Sheet Title: **ELECTRICAL LIGHTING CONTROLS**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **PCP**

Key Plan:

Revisions:

No.	Description	Date
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Graphic Scale: **VARIES**

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A1

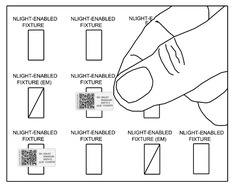
E601

BARCODE TEMPLATES MUST BE SUBMITTED FOR ALL NLIGHT AND NLIGHT AIR PROJECTS PRIOR TO ON-SITE STARTUP.

SAMPLE OF STICKER TO BE COLLECTED


BAR CODE ON NLIGHT ENABLED FIXTURE
TOP VIEW


BAR CODE ON NLIGHT DEVICE



NOTES:

EVERY NLIGHT ENABLED DEVICE (INCLUDING NLIGHT ENABLED FIXTURES) IS FURNISHED WITH (1) PERMANENTLY ADHERED ID TAG AND (1) MATCHING, PARTIALLY ADHERED ID TAG TO BE PLACED ON THE RISER DIAGRAM OR BARCODE TEMPLATE SHEET PROVIDED AS PART OF AN NLIGHT SUBMITTAL. DURING INSTALLATION AND PRIOR TO FACTORY STARTUP, CONTRACTOR SHALL PLACE EACH ID TAG BELOW EACH CORRESPONDING DEVICE SHOWN ON RISER DIAGRAM TO FACILITATE FACTORY STARTUP. FAILURE TO COMPLY MAY RESULT IN STARTUP DELAYS AND ADDITIONAL COSTS AT THE CONTRACTOR'S EXPENSE. DO NOT PLACE DEVICE ID STICKERS ON FLOOR PLAN UNLESS REQUIRED TO EXECUTE NFLOORPLAN SERVICES, REFERENCE NFLOORPLAN SERVICE NOTES ON THIS SHEET FOR SPECIFIC REQUIREMENTS.

THE SMALL BARCODE LABELS INCLUDED WITH ALL NLIGHT DEVICES AND NLIGHT ENABLED FIXTURES MUST BE PLACED ON A PRINTED PLAN SHEET BY THE INSTALLER PRIOR TO ONSITE SYSTEM STARTUP.

THE BARCODE INDICATES THE UNIQUE ID OF EACH NLIGHT DEVICE. THIS ID IS USED DURING SYSTEM STARTUP TO PROGRAM DEVICES WITH THE CORRECT GROUPINGS AND SETTINGS. WITHOUT THIS, SYSTEM STARTUP WILL REQUIRE ADDITIONAL DAYS ON THE JOB TO LOCATE DEVICE IDS.

BARCODE INSTRUCTIONS:

1. * PRINT A PLAN SHEET OF THE INSTALLATION AREA TO A MINIMUM D SIZE (24"X 36"). THE PLAN MAY BE A RISER SHEET OR BARCODE TEMPLATE (EITHER ARE PREFERRED), FLECTED CEILING PLAN, LIGHTING PLAN, AND ELECTRICAL PLAN, SO LONG AS ALL DEVICES CAN BE LOCATED BY THE FIELD SUPPORT ENGINEER.
2. PLACE THE SMALL BARCODE LABEL (0.875" LONG) FROM EACH LUMINAIRE AND DEVICE ON THE FLOORPLAN. THE LARGE BARCODE LABEL (1.25" LONG) CAN BE USED ON THE OUTSIDE OF ANY HOUSING OR JUNCTION BOX THAT OBSCURES THE ID NUMBER SHOWN ON THE DEVICE ITSELF.
3. SAVE THE PLAN AT THE JOB SITE, AND HAND OVER TO ACUITY FIELD SUPPORT ENGINEER OR OTHER PERSONNEL RESPONSIBLE FOR ONSITE SYSTEM STARTUP. IT IS ALSO ACCEPTABLE TO PROVIDE THE BARCODE PLAN AS SCANNED PDF FILES, EMAILED TO CONTROLS.STARTUPS@ACUITYBRANDS.COM, WITH PROJECT NAME AND PROJECT ADDRESS IN SUBJECT LINE AND A COPY OF THE ONSITE STARTUP REQUEST FORM.
4. DRAW ON PLAN ANY LOCATION CHANGES FOR A FIXTURE OR DEVICES, IF DIFFERENT THAN SHOWN ON PLAN.

NLIGHT BARCODE INSTRUCTIONS

N.T.S.

ENTERPRISE
Lighting & Control
2007 Pewaukee Rd. | Waukesha, WI 53188

NLIGHT BARCODE STICKER SHEET

ENTERPRISE
Lighting & Control
2007 Pewaukee Rd. | Waukesha, WI 53188

Room #	Barcode	switchleg	Daylight Zone? Y?N	Notes

A1

SHEET E2602 ADDED VIA ADDENDUM #1

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: **2721 LARSON STREET**
LA CROSSE, WI 54603

Sheet Title: **ELECTRICAL LIGHTING CONTROLS**

HSR Project Number:
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Project Date:
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Drawn By:
PCP

Key Plan:

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2/21/2025 2:37:34 PM

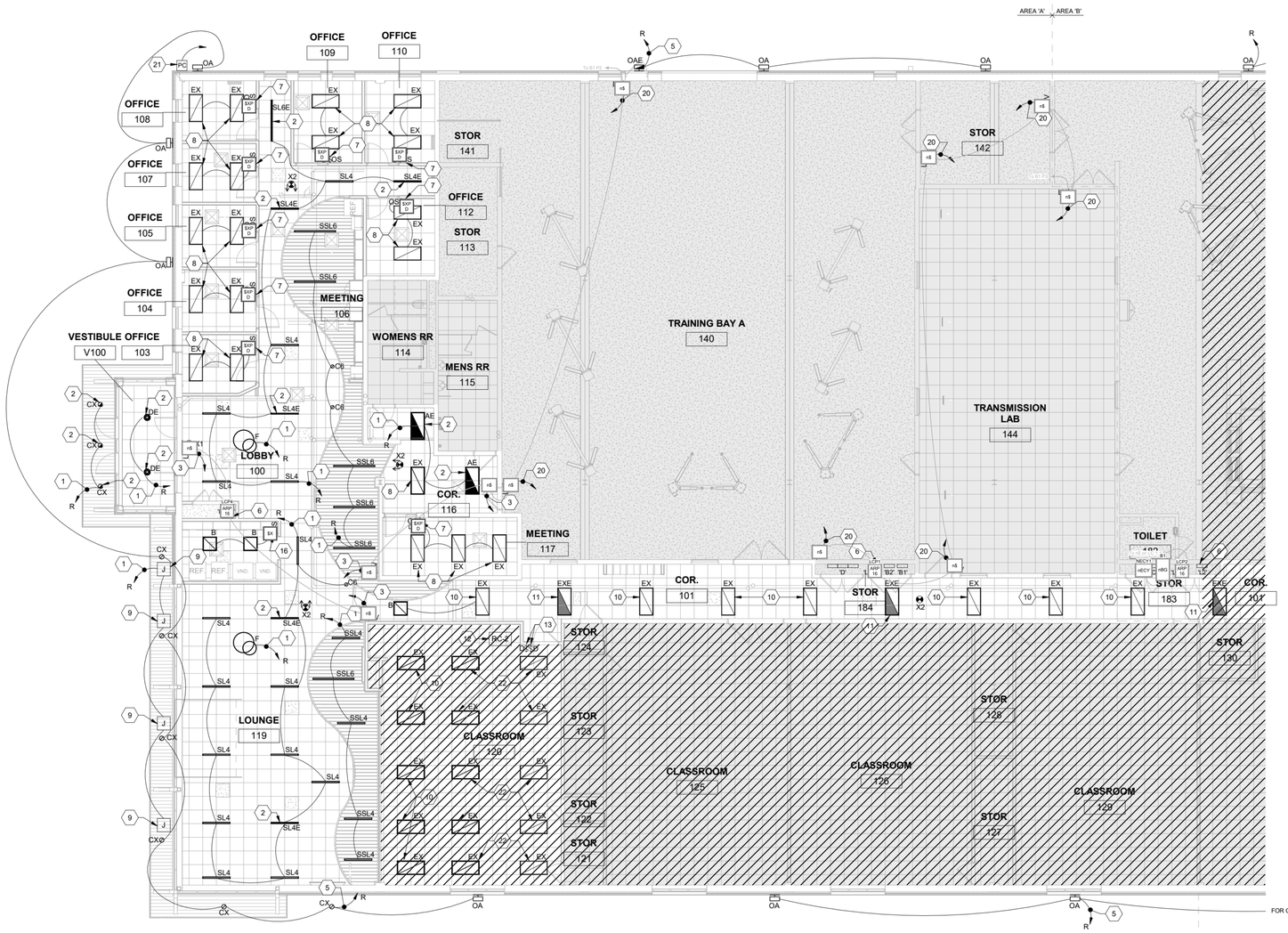
E602

GENERAL NOTES LIGHTING:

A	FINAL OCCUPANCY SENSOR LOCATION SHALL BE BY OCCUPANCY SENSOR MANUFACTURER.
B	LIGHTING CONTROL SYSTEM BASED UPON **ACUITY** CONTROLS, n-LIGHT MANUFACTURER. WATTSTOPPER **ONLY** SHALL BE AN APPROVED EQUAL FOR THIS PROJECT. REFER TO SHEETS E600 – E603 FOR LIGHTING CONTROL DETAILS. ONLY TWO LIGHTING CONTROL MANUFACTURERS ARE APPROVED FOR THIS PROJECT.
C	COORDINATE LIGHTING FIXTURE LOCATIONS WITH MECHANICAL PIPING AND DUCTWORK PRIOR TO INSTALLATION.
D	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL DESIGNER FOR LIGHTING FIXTURE BRANCH-CIRCUITS. THE INTENT IS TO REUSE EXISTING LIFE-SAFETY BRANCH-CIRCUITS AND TO REUSE EXISTING EMERGENCY BRANCH-CIRCUITS (NON-LIFE SAFETY.
E	THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SEPARATE' BREAK-OUT 'COST FOR LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE, DO NOT COMBINE LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE INTO ONE BID. IT SHALL BE ALLOWED TO PROVIDE 'WATTSTOPPER' LIGHTING CONTROLS AS AN EQUAL MANUFACTURER TO 'NLIGHT' WHICH WAS USED AS A BASIS FOR DESIGN ON THIS PROJECT.

KEY NOTES LIGHTING

1	CONNECT TO A RELAY IN NEW LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'.
2	LIGHTING FIXTURE INCLUDES AN EMERGENCY EGRESS BATTERY PACK. PROVIDE AN UN-SWITCHED 'HOT' CONDUCTOR CONNECTED TO SAME BRANCH-CIRCUIT ENERGIZING LIGHTING FIXTURES IN THIS AREA.
3	PROVIDE A LOW-VOLTAGE 2-BUTTON SWITCH AND PROVIDE A LOW VOLTAGE CABLE RECOMMENDED BY LIGHTING CONTROL MANUFACTURER TO NEAREST LIGHTING CONTROL PANEL 'LCP1','LCP2', 'LCP3' OR 'LCP4'.
4	EXTERIOR LIGHTING FIXTURE INCLUDES AN EMERGENCY EGRESS BATTERY PACK. PROVIDE AN UN-SWITCHED 'HOT' CONDUCTOR CONNECTED TO SAME BRANCH-CIRCUIT ENERGIZING LIGHTING FIXTURES IN THIS AREA.
5	CONNECT TO A RELAY IN NEW LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'. THIS RELAY SHALL ENERGIZE FROM DUSK TO DAWN VIA PHOTOCELL INPUT.
6	PROVIDE A NEW n-LIGHT LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4' TO REPLACE PREVIOUSLY REMOVED EXISTING 'NEX-LIGHT' LIGHTING CONTROL PANEL. RECONNECT ALL EXISTING SWITCH-LEG WIRING TO REMAIN, BRANCH-CIRCUIT POWER AND PROVIDE NEW LOW VOLTAGE CONTROL WIRING AS REQUIRED TO MATCH PREVIOUSLY REMOVED PANEL OPERATION.
7	PROVIDE A WALL-MOUNTED COMBINATION OCCUPANCY/DIMMER. THIS SWITCH SHALL SERVE AS AN OCCUPANCY SENSOR AND 0-10V DIMMER FOR LED LIGHTING FIXTURES.
8	REINSTALL A PREVIOUSLY REMOVED 2'X4' LED LIGHTING FIXTURE.
9	PROVIDE AN EXTERIOR JUNCTION BOX FOR 'FUTURE' CONNECTION BACK-LIT ILLUMINATED SIGN. COORDINATE MOUNTING HEIGHT, ETC. WITH SIGN COMPANY AND/OR GENERAL CONTRACTOR.
10	REINSTALL EXISTING 2'X4' LED LIGHTING FIXTURE TEMPORARILY SUPPORTED IN NEW CEILING GRID. RE-USE EXISTING SWITCH-LEG WIRING, FIXTURE WHIPS, ETC. TO THE EXTENT POSSIBLE.
11	REINSTALL EXISTING 2'X4' LED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK TEMPORARILY SUPPORTED IN NEW CEILING GRID. RE-USE EXISTING SWITCH-LEG WIRING, FIXTURE WHIPS, ETC. TO THE EXTENT POSSIBLE.
12	EXISTING WATTSTOPPER ROOM CONTROLLER TO REMAIN AS IS.
13	EXISTING WATTSTOPPER DIMMING LIGHITNG SWITCHES TO REMAIN AS IS.
14	EXISTING LED STRIP LIGHTS TO REMAIN, HOWEVER IT WILL BE REQUIRED TO TURN THEM 90 DEGREES, REUSE EXISTING SWITCHLEG WIRING, FIXTURE WHIPS, JUNCTION BOXES, ETC.
15	INSTALL A PREVIOUSLY REMOVED 2'X4' LED LIGHTING FIXTURE IN THIS ROOM.
16	PROVIDE INFRARED SINGLE RELAY WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR AS RECOMMENDED BY ACUITY n-LIGHT MANUFACTURER.
17	EXISTING SURFACE MOUNTED LED STRIP LIGHTS TO REMAIN AS IS. EXISTING RELAY SWITCH-LEG WIRING TO REMAIN AS IS.
18	REINSTALL A PREVIOUSLY REMOVED 'HIGH-BAY' LED FIXTURE IN THIS LOCATION. REUSE EXISTING RELAY SWITCH-LEG WIRING, JUNTION BOXES, CONDUIT, ETC. TO THE EXTENT POSSIBLE IN THIS AREA.
19	EXISTING 'HIGH-BAY' LED FIXTURE TO REMAIN IN THIS LOCATION AS IS. REUSE EXISTING RELAY SWITCH-LEG WIRING, JUNTION BOXES, CONDUIT, ETC. TO THE EXTENT POSSIBLE IN THIS AREA FOR ANY REWORKING OF LIGHTING FIXTURES IN THIS ROOM REQUIRED.
20	PROVIDE A LOW-VOLTAGE 2-BUTTON OR 4-BUTTON REPLACEMENT SWITCH AND PROVIDE A LOW VOLTAGE CABLE RECOMMENDED BY LIGHTING CONTROL MANUFACTURER TO NEAREST LIGHTING CONTROL PANEL 'LCP1','LCP2', 'LCP3' OR 'LCP4'. INCLUDE AS AN ALTERNATE BID
21	PROVIDE A PHOTOCELL AND CONNECT TO LIGHTING CONTROL PANEL 'LCP4'. PROVIDE LOW VOLTAGE CABLE AS REQUIRED.
22	EXISTING 2'X4' LED LIGHTING FIXTURE TO REMAIN AS IS.
23	PROVIDE A NEW 16-RELAY n-LIGHT LIGHTING CONTROL PANEL AS NOTED ON THE E600'S LIGHTING CONTROL DRAWINGS.



NORTH

1 1ST FLOOR-LIGHTING - AREA A

1/8" = 1'-0"

PRODUCT LEGEND
LC 1.0

3	ARP 16	Panel ARP INTENC16 NLT 16FCR MVOLT 1VB SC SM Acuity Relay Panel, Include INT and ENC, 16-Size, nLight, 16-field configurable relays, 120-277 VAC, Screw Cover, Surface Mount
1	$X	Sensor WSXA XX Wall Switch Sensor
9	$XP D	Sensor WSXA PDT D XX Wall Switch Sensor, Passive Dual Technology, 0-10V Dimming
11	n$	Switch NPODMA XX nLight Wired Wallpod, On/Off
1	nBG	System Controller NBRG 8 KIT Bridge, Kit
1	nECY	System Controller NECY MVOLT ENC GFXK nLight Eclypse, 120-277V, Enclosure for nLight ECLYPSE, nGWY2 GFX and PS 150 Power Supply

WIRE LEGEND
LC 1.0

———	CAT5 nLight CAT5e nLight Pre-terminated CAT5e cable for nLight communication network

SHEET E603 ADDED VIA ADDENDUM #1

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: **ELECTRICAL LIGHTING CONTROLS**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **Author**

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #1	02-24-2025

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:37:34 PM**

A1

E603

PRODUCT LEGEND LC 1.1		
2	ARP 16	Panel ARP INTENC16 NLT 16FCR MVOLT 1VB SC SM Acuity Relay Panel, Include INT and ENC, 16-Size, nLight, 16-field configurable relays, 120-277 VAC, Screw Cover, Surface Mount
3	$X	Sensor WSXA XX Wall Switch Sensor
18	n$	Switch NPODMA XX nLight Wired Wallpod, On/Off
1	NIO PCK	System Interface NIO PC KIT nLight Device, On/off photocell, Kit

WIRE LEGEND LC 1.1	
———	CAT5 nLight CAT5e nLight Pre-terminated CAT5e cable for nLight communication network

GENERAL NOTES LIGHTING:

A	FINAL OCCUPANCY SENSOR LOCATION SHALL BE BY OCCUPANCY SENSOR MANUFACTURER.
B	LIGHTING CONTROL SYSTEM BASED UPON **ACUITY** CONTROLS, n-LIGHT MANUFACTURER. WATTSTOPPER **ONLY** SHALL BE AN APPROVED EQUAL FOR THIS PROJECT. REFER TO SHEETS E600 – E603 FOR LIGHTING CONTROL DETAILS. ONLY TWO LIGHTING CONTROL MANUFACTURERS ARE APPROVED FOR THIS PROJECT.
C	COORDINATE LIGHTING FIXTURE LOCATIONS WITH MECHANICAL PIPING AND DUCTWORK PRIOR TO INSTALLATION.
D	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL DESIGNER FOR LIGHTING FIXTURE BRANCH-CIRCUITS. THE INTENT IS TO REUSE EXISTING LIFE-SAFETY BRANCH-CIRCUITS AND TO REUSE EXISTING EMERGENCY BRANCH-CIRCUITS (NON-LIFE SAFETY.
E	THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SEPARATE' BREAK-OUT' COST FOR LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE. DO NOT COMBINE LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE INTO ONE BID. IT SHALL BE ALLOWED TO PROVIDE 'WATTSTOPPER' LIGHTING CONTROLS AS AN EQUAL MANUFACTURER TO 'nLIGHT' WHICH WAS USED AS A BASIS FOR DESIGN ON THIS PROJECT.

KEY NOTES LIGHTING

1	CONNECT TO A RELAY IN NEW LIGHTING CONTROL PANEL 'LCP1', 'LCP2', 'LCP3' OR 'LCP4'.
2	LIGHTING FIXTURE INCLUDES AN EMERGENCY EGRESS BATTERY PACK. PROVIDE AN UN-SWITCHED 'HOT' CONDUCTOR CONNECTED TO SAME BRANCH-CIRCUIT ENERGIZING LIGHTING FIXTURES IN THIS AREA.
3	PROVIDE A LOW-VOLTAGE 2-BUTTON SWITCH AND PROVIDE A LOW VOLTAGE CABLE RECOMMENDED BY LIGHTING CONTROL MANUFACTURER TO NEAREST LIGHTING CONTROL PANEL 'LCP1','LCP2', 'LCP3' OR 'LCP4'.
4	EXTERIOR LIGHTING FIXTURE INCLUDES AN EMERGENCY EGRESS BATTERY PACK. PROVIDE AN UN-SWITCHED 'HOT' CONDUCTOR CONNECTED TO SAME BRANCH-CIRCUIT ENERGIZING LIGHTING FIXTURES IN THIS AREA.
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7	PROVIDE A WALL-MOUNTED COMBINATION OCCUPANCY/DIMMER. THIS SWITCH SHALL SERVE AS AN OCCUPANCY SENSOR AND 0-10V DIMMER FOR LED LIGHTING FIXTURES.
8	REINSTALL A PREVIOUSLY REMOVED 2'X4' LED LIGHTING FIXTURE.
9	PROVIDE AN EXTERIOR JUNCTION BOX FOR 'FUTURE' CONNECTION BACK-LIT ILLUMINATED SIGN. COORDINATE MOUNTING HEIGHT, ETC. WITH SIGN COMPANY AND/OR GENERAL CONTRACTOR.
10	REINSTALL EXISTING 2'X4' LED LIGHTING FIXTURE TEMPORARILY SUPPORTED IN NEW CEILING GRID. RE-USE EXISTING SWITCH-LEG WIRING, FIXTURE WHIPS, ETC. TO THE EXTENT POSSIBLE.
11	REINSTALL EXISTING 2'X4' LED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK TEMPORARILY SUPPORTED IN NEW CEILING GRID. RE-USE EXISTING SWITCH-LEG WIRING, FIXTURE WHIPS, ETC. TO THE EXTENT POSSIBLE.
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14	EXISTING LED STRIP LIGHTS TO REMAIN, HOWEVER IT WILL BE REQUIRED TO TURN THEM 90 DEGREES. REUSE EXISTING SWITCHLEG WIRING, FIXTURE WHIPS, JUNCTION BOXES, ETC.
15	INSTALL A PREVIOUSLY REMOVED 2'X4' LED LIGHTING FIXTURE IN THIS ROOM.
16	PROVIDE INFRARED SINGLE RELAY WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR AS RECOMMENDED BY ACUITY n-LIGHT MANUFACTURER.
17	EXISTING SURFACE MOUNTED LED STRIP LIGHTS TO REMAIN AS IS. EXISTING RELAY SWITCH-LEG WIRING TO REMAIN AS IS.
18	REINSTALL A PREVIOUSLY REMOVED 'HIGH-BAY' LED FIXTURE IN THIS LOCATION. REUSE EXISTING RELAY SWITCH-LEG WIRING, JUNTION BOXES, CONDUIT, ETC. TO THE EXTENT POSSIBLE IN THIS AREA.
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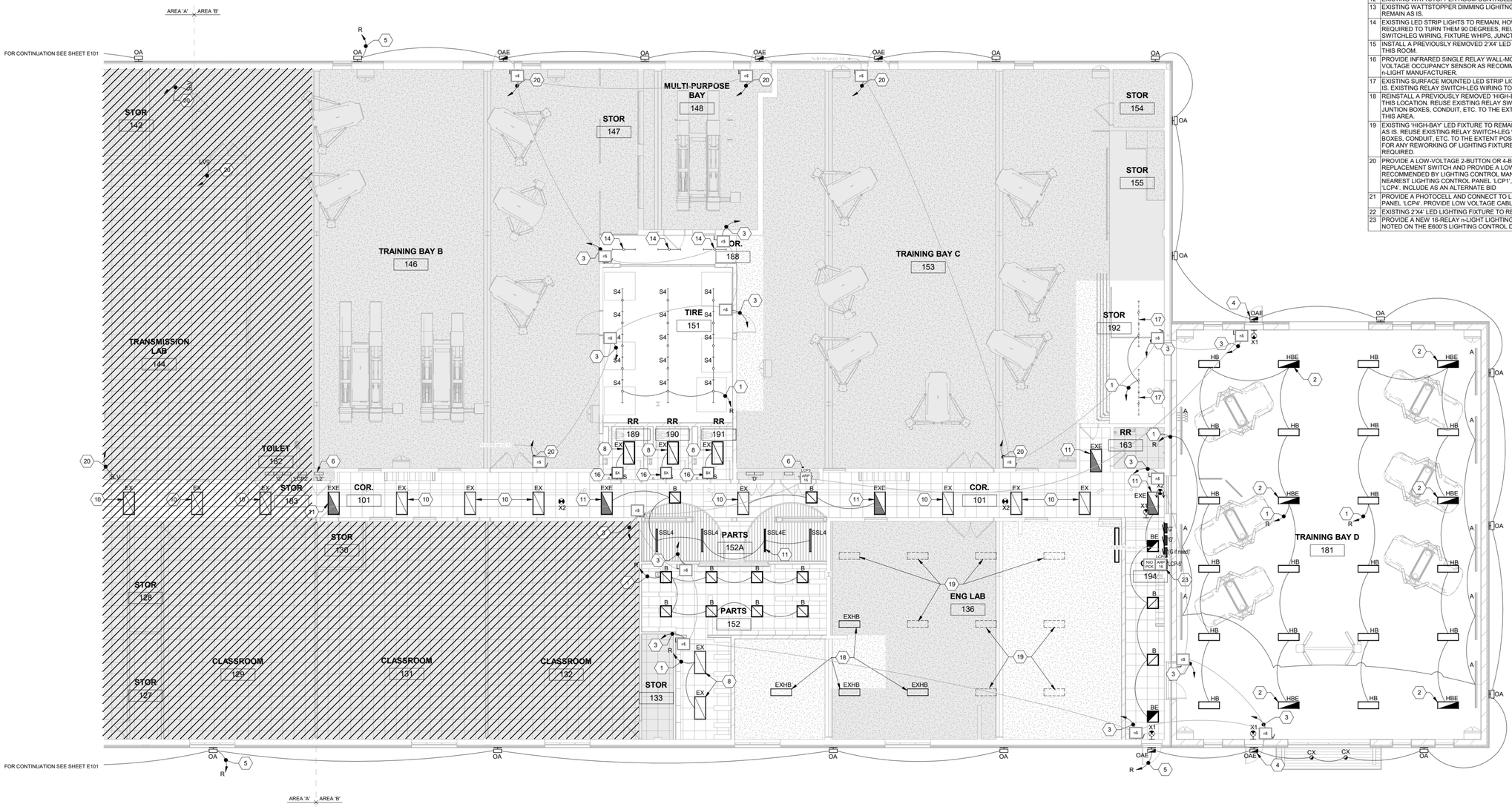
20	PROVIDE A LOW-VOLTAGE 2-BUTTON OR 4-BUTTON REPLACEMENT SWITCH AND PROVIDE A LOW VOLTAGE CABLE RECOMMENDED BY LIGHTING CONTROL MANUFACTURER TO NEAREST LIGHTING CONTROL PANEL 'LCP1','LCP2', 'LCP3' OR 'LCP4'. INCLUDE AS AN ALTERNATE BID
21	PROVIDE A PHOTOCELL AND CONNECT TO LIGHTING CONTROL PANEL 'LCP4'. PROVIDE LOW VOLTAGE CABLE AS REQUIRED.
22	EXISTING 2'X4' LED LIGHTING FIXTURE TO REMAIN AS IS.
23	PROVIDE A NEW 16-RELAY n-LIGHT LIGHTING CONTROL PANEL AS NOTED ON THE E600'S LIGHTING CONTROL DRAWINGS.



NORTH

1 1ST FLOOR-LIGHTING - AREA B

1/8" = 1'-0"

SHEET E604 ADDED VIA ADDENDUM #1

ARCHITECTURE
ENGINEERING
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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: **2721 LARSON STREET**
LA CROSSE, WI 54603

Sheet Title: **ELECTRICAL LIGHTING CONTROLS**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **Author**

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #1	02-24-2025

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:37:35 PM**

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E604

Branch Panel: LCP1

Location: STOR 184 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:**
Mounting: | **Wires:** 4 | **Mains Rating:**
Enclosure: | **MCB Rating:** 1 A

Notes:

RELAY	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	RELAY
1	Lighting - Exterior West, Bay A -NEW-	20 A	1	210 VA / 360 VA			1	20 A	Receptacle	2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
			Total Load:	563 VA		0 VA				
			Total Amps:	5 A		0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Exterior	210 VA	125.00%	263 VA		
Receptacle	360 VA	100.00%	360 VA	**Total Conn. Load:**	563 VA
				Total Est. Demand:	615 VA
				Total Conn.:	2 A
				Total Est. Demand:	2 A

Notes:
Relay numbering shown is a representation of the new lighting circuits and relays. New lighting control panel relays and circuit breaker feeds should be wired 1-for-1 to closely match existing LCPs being removed. Add additional circuits as necessary based on relays and circuit breakers required. Provide printed (not hand-written) directory, indentifying all relays and circuits, affixed to the inside of the panel door.

Branch Panel: LCP2

Location: STOR 183 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:**
Mounting: | **Wires:** 4 | **Mains Rating:**
Enclosure: | **MCB Rating:** 1 A

Notes:

RELAY	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	RELAY
1	Lighting - Exterior East -NEW-	20 A	1	350 VA / 360 VA			1	20 A	Receptacle	2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
			Total Load:	701 VA		0 VA				
			Total Amps:	6 A		0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Exterior	350 VA	125.00%	438 VA		
Receptacle	360 VA	100.00%	360 VA	**Total Conn. Load:**	701 VA
				Total Est. Demand:	788 VA
				Total Conn.:	2 A
				Total Est. Demand:	2 A

Notes:
Relay numbering shown is a representation of the new lighting circuits and relays. New lighting control panel relays and circuit breaker feeds should be wired 1-for-1 to closely match existing LCPs being removed. Add additional circuits as necessary based on relays and circuit breakers required. Provide printed (not hand-written) directory, indentifying all relays and circuits, affixed to the inside of the panel door.

Branch Panel: LCP3

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:**
Mounting: | **Wires:** 4 | **Mains Rating:**
Enclosure: | **MCB Rating:** 1 A

Notes:

RELAY	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	RELAY
1	Lighting - Exterior, Bay B & Bay C West -NEW-	20 A	1	420 VA / 480 VA			1	20 A	Lighting Strips - Tire Area -NEW-	2
3	Lighting - Parts -NEW-	20 A	1		320 VA / 160 VA		1	20 A	Lighting - Parts Back Room -NEW-	4
5	Receptacle	20 A	1			360 VA / 0 VA				6
7										8
9										10
11										12
13										14
15										16
			Total Load:	900 VA		480 VA				
			Total Amps:	8 A		4 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	160 VA	100.00%	160 VA		
Lighting - Exterior	420 VA	125.00%	525 VA	**Total Conn. Load:**	1726 VA
Receptacle	360 VA	100.00%	360 VA	**Total Est. Demand:**	1830 VA
Lighting	800 VA	100.00%	800 VA	**Total Conn.:**	5 A
				Total Est. Demand:	5 A

Notes:
Relay numbering shown is a representation of the new lighting circuits and relays. New lighting control panel relays and circuit breaker feeds should be wired 1-for-1 to closely match existing LCPs being removed. Add additional circuits as necessary based on relays and circuit breakers required. Provide printed (not hand-written) directory, indentifying all relays and circuits, affixed to the inside of the panel door.

Branch Panel: LCP4

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:**
Mounting: | **Wires:** 4 | **Mains Rating:**
Enclosure: | **MCB Rating:** 1 A

Notes:

RELAY	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	RELAY
1	Lighting - Exterior South (Offices)	20 A	1	380 VA / 720 VA			1	20 A	Lighting - Exterior Sign, Above Canopy	2
3	Lighting - Restroom Cooridor	20 A	1		240 VA / 60 VA		1	20 A	Lighting - Exterior Entry Lights (3)	4
5	Lighting - Lobby & Office Cooridor	20 A	1			160 VA / 40 VA	1	20 A	Lighting - Vestibule	6
7	Lighting - Slot Strips & Cans, Office - Metal Ceiling	20 A	1	297 VA / 336 VA			1	20 A	Lighting - Lounge	8
9	Lighting - Lounge Chandelier	20 A	1		20 VA / 20 VA		1	20 A	Lighting - Lobby Chandelier	10
11	Lighting - Lounge Slot Strips -Metal Ceiling	20 A	1			100 VA / 180 VA	1	20 A	Receptacle	12
13										14
15										16
			Total Load:	1719 VA		338 VA				
			Total Amps:	15 A		3 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	540 VA	100.00%	540 VA		
Lighting - Exterior	440 VA	125.00%	550 VA	**Total Conn. Load:**	2530 VA
Other	1320 VA	100.00%	1320 VA	**Total Est. Demand:**	2638 VA
Receptacle	180 VA	100.00%	180 VA	**Total Conn.:**	7 A
Lighting	80 VA	100.00%	80 VA	**Total Est. Demand:**	7 A

Notes:
Relay numbering shown is a representation of the new lighting circuits and relays. New lighting control panel relays and circuit breaker feeds should be wired 1-for-1 to closely match existing LCPs being removed. Add additional circuits as necessary based on relays and circuit breakers required. Provide printed (not hand-written) directory, indentifying all relays and circuits, affixed to the inside of the panel door.

Branch Panel: LCP5

Location: COR. 194 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:**
Mounting: | **Wires:** 4 | **Mains Rating:**
Enclosure: | **MCB Rating:** 1 A

Notes:

RELAY	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	RELAY
1	Hi-Bay Lighting - Bay D - Row 1 (South) -NEW-	20 A	1	1385 VA / 138...			1	20 A	Hi-Bay Lighting - Bay D - Row 2 -NEW-	2
3	Hi-Bay Lighting - Bay D - Row 3 -NEW-	20 A	1		1385 VA / 138...		1	20 A	Hi-Bay Lighting - Bay D - Row 4 (North) -NEW-	4
5	Wall Lighting - Bay D -NEW-	20 A	1			240 VA / 810 VA	1	20 A	Lighting - Bay D - Exterior -NEW-	6
7	Lighting - Cooridor 194 -NEW-	20 A	1	160 VA / 360 VA			1	20 A	Bay D Ceiling Fan Receptacles	8
9										10
11										12
13										14
15										16
			Total Load:	3282 VA		2770 VA				
			Total Amps:	30 A		25 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Dwelling Unit	160 VA	100.00%	160 VA		
Lighting - Exterior	810 VA	125.00%	1013 VA	**Total Conn. Load:**	7068 VA
Other	240 VA	100.00%	240 VA	**Total Est. Demand:**	7263 VA
Receptacle	360 VA	100.00%	360 VA	**Total Conn.:**	20 A
Lighting	5540 VA	100.00%	5540 VA	**Total Est. Demand:**	20 A

Notes:
Relay numbering shown is a representation of the new lighting circuits and relays. New lighting control panel relays and circuit breaker feeds should be wired 1-for-1 to closely match existing LCPs being removed. Add additional circuits as necessary based on relays and circuit breakers required. Provide printed (not hand-written) directory, indentifying all relays and circuits, affixed to the inside of the panel door.

NOTE:

Relay numbering shown is a representation of the new lighting circuits and relays. New lighting control panel relays and circuit breaker feeds should be wired 1-for-1 to closely match existing LCPs being removed. Add additional circuits as necessary based on relays and circuit breakers required. Provide printed (not hand-written) directory, indentifying all relays and circuits, affixed to the inside of the panel door.

SHEET E605 ADDED VIA ADDENDUM #1

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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: **2721 LARSON STREET**
LA CROSSE, WI 54603

Sheet Title: **LIGHTING CONTROL PANELS**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **Author**

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #1	02-24-2025

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:37:35 PM**

A1

E605

NOTES:

- Customers are responsible for confirming mounting heights, fixture suspension types/ lengths, color temperature, CRI, linear fixture lengths, pole lengths, and bollard heights/ lengths prior to ordering.
- Mounting height (MH) is measured from the bottom of the fixture to the floor.
- This Lighting layout assumes the following unless values are specified and must be confirmed by the customer prior to ordering.
  - Room reflectance of 80, 50, 20 for standard ceilings and 50, 50, 20 for exposed ceilings
  - Wall sconces are mounted at 7' for calculation purposes. Customer must confirm desired mounting height before rough in.

Luminaire Schedule

Qty	Label	Arrangement	LLF	MFR	Description	Lum. Watts	Total Watts	Lum. Lumens
36	B1	Single	0.900	LITHONIA	STAKS 2X2 ALO3 SWW7 Medium Lumen	33.13	1192.68	4568
1	B1E	Single	0.271	LITHONIA	STAKS 2X2 ALO3 SWW7 Medium Lumen	33.13	33.13	4568
143	B2	Single	0.900	LITHONIA	STAKS 2X4 ALO6 SWW7 Medium Lumen	38.71	5535.53	5523
15	B2E	Single	0.232	LITHONIA	STAKS 2X4 ALO6 SWW7 Medium Lumen + ILB CP10A	38.71	580.65	5523
3	C6	Single	0.900	LITHONIA	LDN6-40-20-L06-AR-LSS-TRW-MVOLT-GZ10C6	22.52	67.56	2011
11	CX	Single	0.900	LITHONIA	LDN6-40-20-L06-AR-LSS-TRW-MVOLT-GZ10C6	22.52	247.72	2011
2	DE	Single	0.097	LITHONIA	LDN8CYL xx/80 LO8AR LS + 10W IOTA DRIVER	92.03	184.06	8604
105	HB	Single	0.900		IBE L24 22000LM ATC MD XXXX xxK 80CRI	164.65	17288.249	21073
29	HBE	Single	0.081	LITHONIA	IBE L24 22000LM ATC MD XXXX xxK 80CRI + E15WCP	164.65	4774.85	21073
22	OA	Single	0.950	LITHONIA	WDGE2 LED P3 xxK 80CRI VW	22.55	496.1	3214
7	OAE	Single	0.418	LITHONIA	WDGE2 LED P3 xxK 80CRI VW + E20WC	22.55	157.85	3214
9	S4	Single	0.900	LITHONIA	CSS L48 4000LM 347 xxK 80CRI	39.77	357.93	4299
3	S8	Single	0.900	LITHONIA	CSS L96 8000LM UVOLT xxK 80 CRI	75.78	227.34	9641
21	SSL4	Single	0.900	MARK	S4PD LLP 4FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD	26.831	563.451	3309
7	SSL4E	Single	0.333	MARK	S4PD LLP 4FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD + 1E10WLCP	26.831	187.817	3309
6	SSL6	GROUP	N.A.	MARK	S4PD LLP6FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD	N.A.	321.972	N.A.
1	SSL6E	GROUP	N.A.	MARK	S4PD LLP6FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD	N.A.	53.662	N.A.
21	X1	SINGLE	0.001	LITHONIA	LHQM LED R	1	21	74

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
100- LOBBY	Illuminance	Fc	35.80	72.1	10.6	3.38	6.80
103- OFFICE_Workplane	Illuminance	Fc	48.93	60.1	38.1	1.28	1.58
104- OFFICE_Workplane	Illuminance	Fc	48.20	59.5	38.8	1.24	1.53
105- OFFICE_Workplane	Illuminance	Fc	47.98	58.9	36.2	1.33	1.63
106- MEETING	Illuminance	Fc	26.36	53.8	4.7	5.61	11.45
107- OFFICE_Workplane	Illuminance	Fc	48.70	59.9	37.8	1.29	1.58
108- OFFICE_Workplane	Illuminance	Fc	48.98	60.3	38.8	1.26	1.55
109- OFFICE_Workplane	Illuminance	Fc	45.83	55.9	37.7	1.22	1.48
110- OFFICE_Workplane	Illuminance	Fc	45.10	54.5	33.1	1.36	1.65
112- OFFICE_Workplane	Illuminance	Fc	46.14	56.5	33.0	1.40	1.71
113- STOR_Workplane	Illuminance	Fc	31.32	50.3	16.9	1.85	2.98
114- TRANSMISSION_Workplane	Illuminance	Fc	46.08	69.7	14.8	3.11	4.71
114- WOMENS RR_Workplane	Illuminance	Fc	39.49	55.7	16.8	2.35	3.32
115- MENS RR_Workplane	Illuminance	Fc	38.28	46.8	31.6	1.21	1.48
117- MEETING_Workplane	Illuminance	Fc	48.69	64.7	27.0	1.80	2.40
119- LOUNGE	Illuminance	Fc	33.89	66.5	14.6	2.32	4.55
120- CLASSROOM_Workplane	Illuminance	Fc	62.06	83.4	23.6	2.63	3.53
121- STOR_Workplane	Illuminance	Fc	29.60	34.6	23.7	1.25	1.46
122- STOR_Workplane	Illuminance	Fc	40.30	40.7	39.9	1.01	1.02
123- STOR_Workplane	Illuminance	Fc	31.28	37.5	23.5	1.33	1.60
124- STOR_Workplane	Illuminance	Fc	39.80	40.0	39.6	1.01	1.01
125- CLASSROOM_Workplane	Illuminance	Fc	61.43	74.6	37.2	1.65	2.01
126- CLASSROOM_Workplane	Illuminance	Fc	61.37	75.5	36.3	1.69	2.08
127- STOR_Workplane	Illuminance	Fc	33.20	36.7	28.0	1.19	1.31
128- STOR_Workplane	Illuminance	Fc	33.13	36.5	28.3	1.17	1.29
129- CLASSROOM_Workplane	Illuminance	Fc	61.12	74.5	36.1	1.69	2.06
130- STOR_Workplane	Illuminance	Fc	25.99	34.5	19.2	1.35	1.80
131- CLASSROOM_Workplane	Illuminance	Fc	56.52	74.1	30.5	1.85	2.43
132- CLASSROOM_Workplane	Illuminance	Fc	61.19	75.4	35.3	1.73	2.14
133- STOR_Workplane	Illuminance	Fc	34.85	38.7	31.2	1.12	1.24
136- ENG LAB_Workplane	Illuminance	Fc	68.89	111.6	8.1	8.50	13.78
140- TRAINING BAY A_Workplane	Illuminance	Fc	102.79	142.4	27.5	3.74	5.18
142- STOR_Workplane	Illuminance	Fc	30.53	36.8	23.1	1.32	1.59
146- TRAINING BAY B	Illuminance	Fc	105.41	142.8	45.4	2.32	3.15
147- STOR	Illuminance	Fc	84.79	131.0	35.2	2.41	3.72
148- MULTI- PURPOSE_Workplane	Illuminance	Fc	71.46	94.2	19.7	3.63	4.78
151- TIRE_Workplane	Illuminance	Fc	30.26	34.6	22.6	1.34	1.53
152- PARTS_Workplane	Illuminance	Fc	51.50	69.4	26.2	1.97	2.65
152A- PARTS	Illuminance	Fc	30.00	37.2	23.2	1.29	1.60
153- TRAINING BAY C	Illuminance	Fc	78.51	118.5	10.2	7.70	11.62
154- STOR_Workplane	Illuminance	Fc	12.82	14.7	11.6	1.11	1.27
155- STOR	Illuminance	Fc	83.82	101.2	54.2	1.55	1.87
163- RR_Workplane	Illuminance	Fc	28.77	35.3	23.6	1.22	1.50
181- TRAINING BAY D_Workplane	Illuminance	Fc	89.96	119.3	26.1	3.45	4.57
182- TOILET_Workplane	Illuminance	Fc	28.78	33.8	24.2	1.19	1.40
189- RR_Workplane	Illuminance	Fc	33.40	41.6	28.4	1.18	1.46
190-RR_Workplane	Illuminance	Fc	33.60	41.5	28.8	1.17	1.44
191-RR_Workplane	Illuminance	Fc	33.73	41.7	28.9	1.17	1.44
CORRIDOR	Illuminance	Fc	22.19	34.2	5.4	4.11	6.33
V100- VESTIBULE_Workplane	Illuminance	Fc	10.11	17.1	4.6	2.20	3.72

ENTERPRISE Lighting & Control

#	DATE	COMMENTS

REVISIONS

DRAWN BY : AD

DATE : FEB 10, 2025

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

WESTERN TECHNICAL COLLEGE

LA CROSSE, WISCONSIN

LIGHTING LAYOUT

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

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250 EAST AVE, SUITE 310, LA CROSSE, WISCONSIN 54601
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Project Title: WESTERN TECHNICAL COLLEGE
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: ELEC. FIXTURE SCHEDULE & CALC SUMMARY

HSR Project Number: 24061

Project Date: FEB 2025

Drawn By: Author

Key Plan:

Revisions:

No.	Description	Date

Graphic Scale: VARIES

Last Update: 2/24/2025 12:06:29 PM

E702

NOTES:

- Customers are responsible for confirming mounting heights, fixture suspension types/ lengths, color temperature, CRI, linear fixture lengths, pole lengths, and bollard heights/ lengths prior to ordering.
- Mounting height (MH) is measured from the bottom of the fixture to the floor.
- This Lighting layout assumes the following unless values are specified and must be confirmed by the customer prior to ordering.
  - Room reflectance of 80, 50, 20 for standard ceilings and 50, 50, 20 for exposed ceilings
  - Wall sconces are mounted at 7' for calculation purposes. Customer must confirm desired mounting height before rough in.

Luminaire Schedule

Qty	Label	Arrangement	LLF	MFR	Description	Lum. Watts	Total Watts	Lum. Lumens
1	B1E	Single	0.271	LITHONIA	STAKS 2X2 ALO3 SWW7 Medium Lumen	33.13	33.13	4568
15	B2E	Single	0.232	LITHONIA	STAKS 2X4 ALO6 SWW7 Medium Lumen + ILB CP10A	38.71	580.65	5523
2	DE	Single	0.097	LITHONIA	LDN8CYL xx/80 LO8AR LS + 10W IOTA DRIVER	92.03	184.06	8604
29	HBE	Single	0.081	LITHONIA	IBE L24 22000LM ATC MD XXXX xxK 80CRI + E15WCP	164.65	4774.85	21073
7	OAE	Single	0.418	LITHONIA	WDGE2 LED P3 xxK 80CRI VW + E20WC	22.55	157.85	3214
7	SSL4E	Single	0.333	MARK	S4PD LLP 4FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD + 1E10WLCP	26.831	187.817	3309
1	SSL6	GROUP	N.A.	MARK	S4PD LLP6FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD	N.A.	53.662	N.A.
21	X1	SINGLE	0.001	LITHONIA	LHQM LED R	1	21	74

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
100- LOBBY	Illuminance	Fc	3.76	6.15	1.12	3.36	5.49
106- MEETING	Illuminance	Fc	4.22	7.20	1.01	4.18	7.13
114- TRANSMISSION_Floor	Illuminance	Fc	3.80	6.19	1.54	2.47	4.02
119- LOUNGE	Illuminance	Fc	2.49	5.08	0.77	3.23	6.60
136- ENG LAB_Floor	Illuminance	Fc	2.17	4.34	0.91	2.38	4.77
140- TRAINING BAY A_Floor	Illuminance	Fc	2.30	4.42	0.47	4.89	9.40
146- TRAINING BAY B	Illuminance	Fc	2.28	4.62	0.51	4.47	9.06
148- MULTI- PURPOSE_Floor	Illuminance	Fc	1.90	3.99	0.48	3.96	8.31
152A- PARTS	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
153- TRAINING BAY C	Illuminance	Fc	2.44	4.98	0.58	4.21	8.59
16- cor	Illuminance	Fc	4.85	6.49	2.63	1.84	2.47
181- TRAINING BAY D_Floor	Illuminance	Fc	1.90	4.25	0.26	7.31	16.35
CORRIDOR	Illuminance	Fc	2.36	6.65	0.31	7.61	21.45
V100- VESTIBULE_Floor	Illuminance	Fc	10.43	11.81	9.08	1.15	1.30

ENTERPRISE Lighting & Control

#	DATE	COMMENTS

REVISIONS

DRAWN BY : AD

DATE : FEB 10, 2025

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

WESTERN TECHNICAL COLLEGE

LA CROSSE, WISCONSIN

LIGHTING LAYOUT

ARCHITECTURE
ENGINEERING
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HSR ASSOCIATES INC.
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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: **ELEC. EGRESS FIXTURE SCHEDULE & CALC SUMMARY**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **Author**

Key Plan:

Revisions:

No.	Description	Date

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:37:35 PM**

E705

GENERAL NOTES - FIRE ALARM

NUMBER	DESCRIPTION
A	Existing EDWARDS EST Io500 fire alarm system is approved for this project. No Equals will be accepted. It will be required to upgrade the existing system as specified.
B	Free-air red color Fire Alarm Plenum rated cable shall be allowed for this project. It must be approved by Edwards EST Manufacturer and meet all NEC and NFPA code rules. This project requires new fire alarm system wiring and devices in remodeled areas ONLY, do not reuse existing wiring and/or devices in remodeled areas. The intent is to remove all existing wiring and devices in remodeled areas and replace with new wiring and devices in remodeled areas ONLY.
C	Electrical Contractor is responsible to install a complete Fire Alarm System.
D	Please note, entire building is completely sprinklered.
E	Fire alarm control panel is located in Storage Room 130.

KEYNOTES - FIRE ALARM

NUMBER	DESCRIPTION
1	LOCATION OF EXISTING EDWARDS 'EST', MODEL #iO500 ADDRESSABLE FIRE ALARM CONTROL PANEL.
2	EXISTING FIRE ALARM SYSTEM ANNUNCIATOR PANEL SHALL REMAIN AS IS.
3	REPLACE EXISTING EXTERIOR SPRINKLER SYSTEM HORN/STROBE WITH NEW. REUSE EXISTING WIRING, JUNCTION BOXES, ETC. TO THE EXTENT POSSIBLE. PLEASE NOTE EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 2".
4	PROVIDE A DUCT SMOKE DETECTOR.
5	PROVIDE A KEYED REMOTE TEST SWITCH FOR DUCT SMOKE DETECTOR.

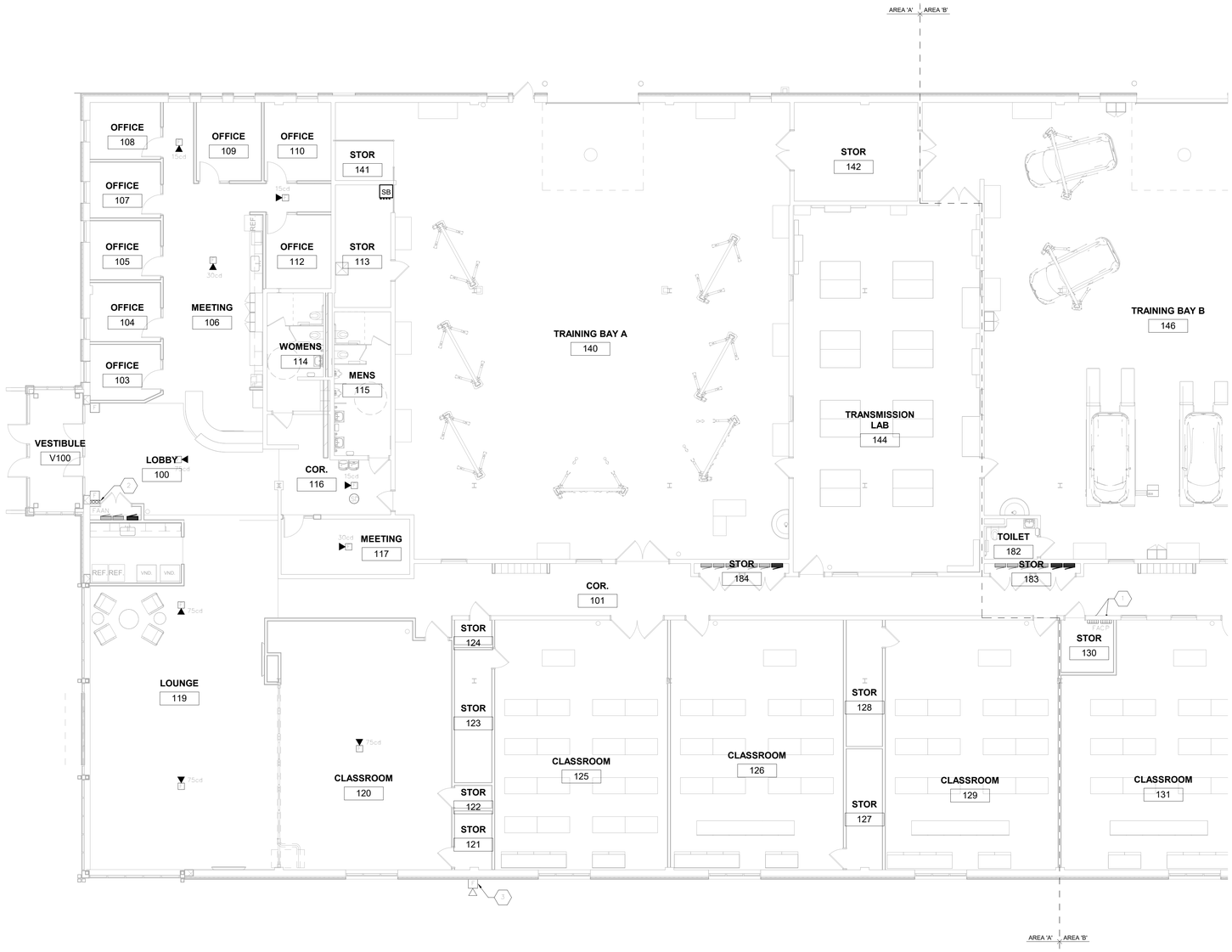
FIRE ALARM SUPPLIER / VENDOR

BANKO SYSTEMS
201 S CHESTNUT STREET, LA CRESCENT, MN 55947 507-895-4081

FIRE ALARM SYSTEM SYMBOLS

NOTES:
MOUNTING HEIGHTS FOR FIRE ALARM DEVICES:
MANUAL PULL STATION = 48"
HORN/STROBE = 80"
STROBE LIGHTS = 80"
MAGNETIC DOOR HOLDERS = AS SPECIFIED

- FACP — FIRE ALARM CONTROL PANEL (FACP)
- FAAN — FIRE ALARM ANNUNCIATOR PANEL (FAAN)
- F — MANUAL PULL STATION
- H — HEAT DETECTOR
- RTS — REMOTE DUCT DETECTOR TEST SWITCH
- S — DUCT SMOKE DETECTOR
- SD — SMOKE DETECTOR
- SL — VISUAL STROBE ONLY
- F — F.A. HORN / VISUAL (HORN/STROBE)
- FS — SPRINKLER SYSTEM WATER FLOW SWITCH
- TS — SPRINKLER SYSTEM TAMPER SWITCH



NORTH

1 1ST FIRE ALARM PLAN - AREA A

1/8" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
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Project Title: **WESTERN TECHNICAL COLLEGE**
WTC VEHICLE TECHNOLOGY CENTER

Project Location: **2721 LARSON STREET**
LA CROSSE, WI 54603

Sheet Title: **1ST FL. FIRE ALARM - AREA A**

HSR Project Number: **24061**

Project Date: **FEB 2025**

Drawn By: **PLP**

Key Plan:

Revisions:

No.	Description	Date

Graphic Scale: **VARIES**

Last Update: **2/21/2025 2:37:46 PM**

FA01

GENERAL NOTES - FIRE ALARM

NUMBER	DESCRIPTION
A	Existing EDWARDS EST Io500 fire alarm system is approved for this project. No Equals will be accepted. It will be required to upgrade the existing system as specified.
B	Free-air red color Fire Alarm Plenum rated cable shall be allowed for this project. It must be approved by Edwards EST Manufacturer and meet all NEC and NFPA code rules. This project requires new fire alarm system wiring and devices in remodeled areas ONLY, do not reuse existing wiring and/or devices in remodeled areas. The intent is to remove all existing wiring and devices in remodeled areas and replace with new wiring and devices in remodeled areas ONLY.
C	Electrical Contractor is responsible to install a complete Fire Alarm System.
D	Please note, entire building is completely sprinklered.
E	Fire alarm control panel is located in Storage Room 130.

KEYNOTES - FIRE ALARM

NUMBER	DESCRIPTION
1	LOCATION OF EXISTING EDWARDS 'EST', MODEL #iO500 ADDRESSABLE FIRE ALARM CONTROL PANEL.
2	EXISTING FIRE ALARM SYSTEM ANNUNCIATOR PANEL SHALL REMAIN AS IS.
3	REPLACE EXISTING EXTERIOR SPRINKLER SYSTEM HORN/STROBE WITH NEW. REUSE EXISTING WIRING, JUNCTION BOXES, ETC. TO THE EXTENT POSSIBLE. PLEASE NOTE EXTERIOR WALL SHALL BE FURRED-OUT APPROXIMATELY 2".
4	PROVIDE A DUCT SMOKE DETECTOR.
5	PROVIDE A KEYED REMOTE TEST SWITCH FOR DUCT SMOKE DETECTOR.

FIRE ALARM SUPPLIER / VENDOR

BANKO SYSTEMS
201 S CHESTNUT STREET, LA CRESCENT, MN 55947 507-895-4081

FIRE ALARM SYSTEM SYMBOLS

NOTES:
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MANUAL PULL STATION = 48"
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STROBE LIGHTS = 80"
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- FACP — FIRE ALARM CONTROL PANEL (FACP)
- FAAN — FIRE ALARM ANNUNCIATOR PANEL (FAAN)
- F — MANUAL PULL STATION
- H — HEAT DETECTOR
- RTS — REMOTE DUCT DETECTOR TEST SWITCH
- S — DUCT SMOKE DETECTOR
- SD — SMOKE DETECTOR
- SL — VISUAL STROBE ONLY
- F — F.A. HORN / VISUAL (HORN/STROBE)
- FS — SPRINKLER SYSTEM WATER FLOW SWITCH
- TS — SPRINKLER SYSTEM TAMPER SWITCH

NORTH

1 1ST FLOOR FIRE ALARM - AREA B

1/8" = 1'-0"

ARCHITECTURE
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INTERIOR DESIGN

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Project Title: WESTERN TECHNICAL COLLEGE
WTC VEHICLE TECHNOLOGY CENTER

Project Location: 2721 LARSON STREET
LA CROSSE, WI 54603

Sheet Title: 1ST FL. FIRE ALARM - AREA B

HSR Project Number: 24061

Project Date: FEB 2025

Drawn By: PLP

Key Plan:

Revisions:

No.	Description	Date

Graphic Scale: VARIES

Last Update: 2/21/2025 2:37:49 PM

FA02