ATCC STUDENT SERVICES & TRANSPORTATION CENTER

ABBREVIATIONS

2S1W	TWO SPEED SINGLE WINDING
2S2W	TWO SPEED TWO WINDING
2SPW	TWO STEP PART WINDING
&	AND
@	AT
#	NUMBER
A, AMP	AMPERE
ABV	ABOVE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NAT'L STDS. INSTITUTE
APROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BO	BY OTHERS
BRKR	BREAKER
BSMT	BASEMENT
BTWN	BETWEEN
C	DEGREE CELSIUS
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CBAS	COMPUTERIZED BUILDING AUTOMATION SYSTEM
CCT/CKT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
COL	COLUMN
COMB	COMBINATION
COMM	COMMUNICATION
CONC	CONCRETE
CONN	CONNECTED / CONNECTION
CONST	CONSTRUCTION
COORD	COORDINATE
CORR	CORRIDOR
CT	CURRENT TRANSFORMER
CTB	COMMUNICATION TERMINAL BOARD
CTC	COMMUNICATION TERMINAL CAB
CUH	CABINET UNIT HEATER
D	DEPTH / DEEP
DC	DIRECT CURRENT
DEPT	DEPARTMENT
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DIST	DISTRIBUTION
DIV	DIVISION
DN	DOWN
DP	DATA PROCESSING
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
EMERG	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	DEGREE FAHRENHEIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FUT	FUTURE
FVNR	FULL VOLTAGE NON REVERSING
FVR	FULL VOLTAGE REVERSING
GA	GAUGE
GALV	GALVANIZED
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GND	GROUND
GWA	GENERAL WORK AREA
H	HIGH / HEIGHT
HOA	HAND OFF AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HTG	HEATING
HTR	HEATER
HZ	HERTZ
IG	INSIDE DIAMETER ISOLATED GROUND
INC	INCANDESCENT
KO	KNOCK OUT
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LCC	LIGHTING CONTROL CABINET
LCP	LIGHTING CONTROL PANEL
LOC	LOCATION
LT/LTG	LIGHT/LIGHTING
MAN	MANUAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCU	MODULAR COOLING UNIT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MS	MOTOR STARTER
MSS	MOTOR STARTER SWITCH
MSG	MOTOR STARTER GROUP
MSR	MAIN SOUND RACK
MTD	MOUNTED
MTR	MOTOR
MT	EMPTY
MTC	EMPTY CONDUIT
MTS	MANUAL TRANSFER SWITCH
N, NEUT	NEUTRAL
NA	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NIC	NOT IN CONTRACT
NO	NUMBER
NORM	NORMAL
N.O.	NORMALLY OPEN
Ø	PHASE
P	POLE
PF	POWER FACTOR
PIV	POST INDICATOR VALVE
PL	PILOT LIGHT
PNL	PANEL
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
PDU	POWER DISTRIBUTION UNIT
REC	RECESSED
RECEPT	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REQD	REQUIRED
RM	ROOM
RTC	RETURN TO CENTER
SEC	SECONDARY
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SURF	SURFACE
SPC	SPACE
SPEC	SPECIFICATION
SPL	SPECIAL
SPR	SPARE
SQ	SQUARE
STD	STANDARD
STRUCT	STRUCTURAL
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
ST	SHUNT TRIP
TEL	TELEPHONE
TEMP	TEMPERATURE
TYP	TYPICAL
TERM	TERMINAL/TERMINATE
TR	TAMPER RESISTANT
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPRESSOR
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERE
VDT	VIDEO DISPLAY TERMINAL
VERT	VERTICAL
VSD	VARIABLE SPEED DRIVE
W	WATTS
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
YDS	WYE-DELTA START

ELECTRICAL SYMBOLS

LIGHT FIXTURE	DESCRIPTION	MOUNTING
	SURFACE LED, NORMAL POWER	
	SURFACE LED, EMERGENCY POWER	
	RECESSED LED, NORMAL POWER	
	RECESSED LED, EMERGENCY POWER	
	WALL MOUNTED EXIT SIGN, SHADING INDICATES THE ILLUMINATED FACES	96" AFF or 8" BFC
	CEILING MOUNTED EXIT SIGN, SHADING INDICATES THE ILLUMINATED FACES	
	BATTERY PACK, NORMAL POWER	96" AFF or 8" BFC
	BATTERY PACK, EMERGENCY POWER	96" AFF or 8" BFC
	POLE, BASE AND FIXTURE(S). CIRCLES INDICATE # OF HEADS PER POLE, NORMAL POWER	
	POLE, BASE AND FIXTURE(S). CIRCLES INDICATE # OF HEADS PER POLE, EMERGENCY POWER	
	WALL MOUNTED FIXTURE AND BRACKET, NORMAL POWER	
	WALL MOUNTED FIXTURE AND BRACKET, EMERGENCY POWER	
	STRIP FIXTURE, NORMAL POWER	
	STRIP FIXTURE, EMERGENCY POWER	
	SURFACE MOUNTED DOWNLIGHT, NORMAL POWER	
	SURFACE MOUNTED DOWNLIGHT, EMERGENCY POWER	
	RECESSED DOWNLIGHT, NORMAL POWER	
	RECESSED DOWNLIGHT, EMERGENCY POWER	
	RECESSED WALL WASHER, NORMAL POWER	
	RECESSED WALL WASHER, EMERGENCY POWER	
	TRACK FIXTURES AND TRACK ASSEMBLY, NORMAL POWER	
	TRACK FIXTURES AND TRACK ASSEMBLY, EMERGENCY POWER	
X	SWITCH, WHERE "X" CAN BE ONE OF THE FOLLOWING: 2 = DOUBLE POLE; 3 = THREE WAY; 4 = FOUR WAY; K = KEYED; LV = LOW VOLTAGE; MC = MOMENTARY WITH RTC; OS = OCCUPANCY SENSOR; (blank) = SINGLE POLE	46"
D	DIMMER SWITCH	46"
	SWITCH WITH PILOT LIGHT	46"
X X OS DS Y Y	OCCUPANCY SENSOR, WHERE "Y" IS THE RATED AREA OF COVERAGE AND "X" IS ONE OF THE FOLLOWING: DT = DUAL TECHNOLOGY; US = ULTRASONIC; PIR = PASSIVE INFRARED	96" OR 6" BELOW FINISHED CLG WHICH EVER IS LOWER
DSX	DAYLIGHT SENSOR, WHERE "X" IS THE TYPE OF SENSOR	CLG.
XYZ RC	ROOM CONTROLLER. WHERE xyz ARE THE SWITCH LEGS THAT ARE CONTROLLED.	

NURSE CALL DEVICES	DESCRIPTION	MOUNTING
N	CALL STATION	46"
N A	ANNUNCIATOR	46"
N C	CHIME	96"
C	CHIME	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
N D	DOME LIGHT	96"
N D	DOME LIGHT	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
N C/D	CHIME/DOME	96"
N C/D	CHIME/DOME	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
N E	EMERGENCY CALL STATION	46"
N M	MASTER STATION	46"
N CB	CODE BLUE STATION	46"
N DS	DUTY STATION	46"
N SS	STAFF STATION	46"
N SDS	STAFF/DUTY STATION	46"
N NA	NURSE ASSISTANCE	46"
N LA	LOCAL ALARM	46"

WIRING DEVICE	DESCRIPTION	MOUNTING
	RECEPTACLE OPTIONS DENOTED BY "X", WHERE "X" CAN BE ONE OF THE FOLLOWING: USB = DUPLEX RECEPTACLE WITH (2) 2 USB POWER OUTLETS; GFI = GROUND FAULT INTERRUPTER; TR = TAMPER RESISTANT; SS = SURGE SUPPRESSOR; WP = WEATHERPROOF; (blank) = STANDARD RECEPTACLE	
X	SIMPLEX RECEPTACLE, NORMAL POWER	18"
X	DUPLEX RECEPTACLE, NORMAL POWER	18"
X	DUPLEX RECEPTACLE, UPS POWER	18"
X	DUPLEX RECEPTACLE, EMERGENCY POWER	18"
X	FOURPLEX RECEPTACLE	18"
	FLOOR OUTLET BOX, POWER, VOICE AND/OR DATA	
10-30R	SPECIAL PURPOSE RECEPTACLE, WITH NEMA CONFIGURATION NOTED	
PP	POWER POLE	18"
	MULTIOUTLET ASSEMBLY, REFER TO SPEC FOR TYPE AND RECEPTACLE SPACING	
	DISCONNECT SWITCH, NON-FUSED	
F	DISCONNECT SWITCH, FUSED	
MS	MOTOR STARTER SWITCH WITHOUT OVERLOAD PROTECTION	54"
MSS	MOTOR STARTER SWITCH WITH OVERLOAD PROTECTION	54"
EF-1	MAGNETIC MOTOR STARTER WITH EQUIPMENT NUMBER INDICATED	
EF-1	COMBINATION MOTOR STARTER AND FUSED DISCONNECT WITH EQUIPMENT NUMBER INDICATED	
AHU 1	EQUIPMENT TAG (REFER TO EQUIPMENT SCHEDULE)	
	208/120 VOLT PANELBOARD	
	480/277 VOLT PANELBOARD	
	TERMINAL CABINET	
	ANNUNCIATOR PANEL	

MISCELLANEOUS	DESCRIPTION	MOUNTING
J	JUNCTION BOX, RECESSED WALL	
J	JUNCTION BOX, RECESSED CEILING	
C	CLOCK, WALL MOUNTED	96" or 8" BFC
C	CLOCK, CEILING MOUNTED	
T	LINE VOLTAGE THERMOSTAT	58"
	PUSHBUTTON	46"
EPO	HANDICAP OPERATOR PUSHBUTTON	30"
EPO	EMERGENCY POWER OFF PUSHBUTTON	46"
TC	TIME CLOCK	
C	CONTACTOR	
B	BELL	96" or 8" BFC

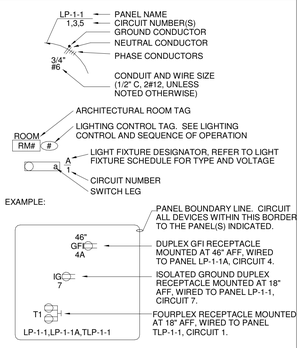
SECURITY	DESCRIPTION	MOUNTING
S X	SECURITY DEVICE, WHERE "X" CAN BE ONE OF THE FOLLOWING: DPS = DOOR POSITION SWITCH; DC = MAGNETIC DOOR CONTACTS; ODC = MAGNETIC OVERHEAD DOOR CONTACTS; KS = KEEPER SWITCH; GB = GLASS BREAK DETECTOR; MD = MOTION DETECTOR; EL = ELECTRIC LOCK; ES = ELECTRIC STRIKE; ML = ELECTROMAGNETIC LOCK; PH = POWER TRANSFER HINGE; GT = GUARD TOUR STATION; REX = EXIT SENSOR; PB = DOOR RELEASE PUSHBUTTON; LD = LOCK-DOWN PUSHBUTTON; CR = CARD READER; KP = KEYPAD; CRK = CARD READER WITH KEYPAD; QEL = QUIET LATCH-RETRACTION; IC = AUDIO INTERCOM; VIC = VIDEO INTERCOM; VIC-DS = VIDEO INTERCOM DOOR STATION; VIC-MS = VIDEO INTERCOM MASTER STATION; CR-VIC (number) = CARD READER/VIDEO INTERCOM = REFER TO SCHEDULE IN THE SPECS FOR LIST OF SECURITY DEVICES TO BE INCLUDED	46" 46" 46" 46" 46" 46"
CCTV S	WALL MOUNTED CCTV SECURITY CAMERA, REFER TO SPECIFICATIONS FOR SCHEDULE	
CCTV S	CEILING MOUNTED CCTV SECURITY CAMERA, REFER TO SPECIFICATIONS FOR SCHEDULE	

DESIGN PRESENTATION	DESCRIPTION
1	KEY NOTE, REFER TO LIST OF KEY NOTES ON THE SAME PLAN
1	FEEDER NOTE, REFER TO FEEDER SCHEDULE ON THE SAME PLAN
1	DRAWING REVISION NOTE
	CONCEALED RACEWAY
	RACEWAY INSTALLED BELOW FINISHED GRADE/UNDER SLAB
	EXPOSED RACEWAY
	RACEWAY UP
	RACEWAY DOWN
	CONDUIT STUB, BUSHED AND CAPPED
	UNDERFLOOR DUCT, POWER AND COMMUNICATIONS RACEWAYS

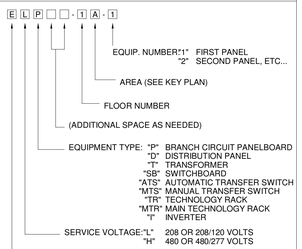
COMMUNICATIONS	DESCRIPTION	MOUNTING
D#	DATA OUTLET. # = NUMBER OF DATA CABLES AND TERMINATIONS (D1 = 1 CABLE, D2 = 2 CABLES, ETC.)	18"
C1	COMBINATION VOICE/DATA OUTLET (1 VOICE (TELEPHONE) AND 1 DATA (LAN)	18"
C3	COMBINATION VOICE/DATA/AUDIO-VISUAL OUTLET (REFER TO SPECIFICATION OR AS NOTED ON PLANS).	18"
C#	COMBINATION OUTLET. # = 3, 4, 5, ETC. (SPECIALTY OUTLETS FOR OUTLETS OTHER THAN C1 OR C3) CABLED AS NOTED ON TECHNOLOGY PLANS.	18"
W	TELEPHONE OUTLET - WALL MOUNTED	54"
W	TELEPHONE OUTLET - MOUNTED IN RECESSED BOX	54"
	TELEPHONE OUTLET - (ELEVATOR, SECURITY, HVAC, ETC. AS NOTED ON TECHNOLOGY PLANS)	18"
P	PROJECTOR OUTLET - WALL MOUNTED (CABLE AS NOTED ON TECHNOLOGY PLANS)	88"
TV LCD	TELEVISION OUTLET - WALL MOUNTED LCD INTERACTIVE MONITOR. (CABLE AS NOTED ON TECHNOLOGY PLANS)	46"
TV MON	TELEVISION OUTLET - WALL MOUNTED MESSAGING SYSTEM MONITOR (CABLE AS NOTED ON TECHNOLOGY PLANS)	46"
P	PROJECTOR OUTLET - CEILING MOUNTED (CABLE AS NOTED ON TECHNOLOGY PLANS)	
TV LCD	TELEVISION OUTLET - CEILING MOUNTED LCD INTERACTIVE MONITOR. (CABLE AS NOTED ON TECHNOLOGY PLANS)	
TV MON	TELEVISION OUTLET - MESSAGING MONITOR MESSAGING SYSTEM MONITOR (CABLE AS NOTED ON TECHNOLOGY PLANS)	
AP AT	WIRELESS ACCESS POINT OUTLET - CEILING MOUNTED (CABLE AS NOTED ON TECHNOLOGY PLANS)	
C M	MICROPHONE OUTLET	18"
C L	LINE LEVEL OUTLET	18"
C DSP-X	REMOTE CONTROL PANEL, X = ZONE NUMBER	46"
C CJP	COMBINATION JACK PLATE - REFER TO SOUND SYSTEM DETAIL PLANS FOR CABLING AND DEVICES.	18"
C ES	EFFECTS SPEAKER OUTLET - REFER TO SOUND SYSTEM DETAIL PLANS FOR CABLING AND DEVICES.	
C MS	MONITOR SPEAKER OUTLET - REFER TO SOUND SYSTEM DETAIL PLANS FOR CABLING AND DEVICES.	
C WA	REMOTE WIRELESS MICROPHONE ANTENNA	
C HA	REMOTE HEARING ASSISTANCE SYSTEM ANTENNA	
S AT PA	SPEAKER, CEILING MOUNTED WITH TYPE AND ZONE NUMBER INDICATED (REFER TO SPECIFICATION FOR TYPE)	
S X PA	SPEAKER, WALL MOUNTED, X = TYPE (S - SURFACE/F-FLUSH-RECESSED.) (REFER TO SPECIFICATION FOR TYPE)	96"
S A8T	SPEAKER, WALL MOUNTED WITH TYPE AND ZONE NUMBER INDICATED (REFER TO SPECIFICATION FOR TYPE)	
S	SPEAKER RE-ENTRANT HORN WITH ZONE NUMBER INDICATED	18"
C V	VOLUME CONTROL	54"
S	ALL CALL/EMERGENCY PAGE/LOCKDOWN DEVICE CO-LOCATED WITH PA SPEAKERS IN HIGH NOISE AREAS (REFER TO PLANS AND SPECIFICATION)	
RA	SOUND REINFORCEMENT RECEIVER/AMPLIFIER OUTLET. CABLE AS NOTED ON PLANS. REFER TO SPECIFICATION	54"
AV#	AUDIO/VISUAL OUTLET - CABLING AND DEVICES AS NOTED ON PLANS. REFER TO SPECIFICATION (# = AV1, AV2, ETC.)	18"
S AT SR	SOUND REINFORCEMENT SPEAKER - CEILING MOUNTED (REFER TO PLANS AND SPECIFICATION)	
IR AT SR	SOUND REINFORCEMENT IR SENSOR - CEILING MOUNTED (REFER TO PLANS AND SPECIFICATION)	
C#	COMBINATION VOICE/DATA - FLOOR BOX MOUNTED (REFER TO PLANS AND SPECIFICATION)	
D#	DATA OUTLET - FLOOR BOX MOUNTED (REFER TO PLANS AND SPECIFICATION)	
AV#	AUDIO/VISUAL OUTLET - FLOOR BOX MOUNTED (REFER TO PLANS AND SPECIFICATION)	
C M	MICROPHONE OUTLET - FLOOR BOX MOUNTED (REFER TO PLANS AND SPECIFICATION)	
C L	LINE LEVEL OUTLET - FLOOR BOX MOUNTED (REFER TO PLANS AND SPECIFICATION)	
CCTV S	CCTV SURVEILLANCE CAMERA OUTLET - SURFACE MOUNTED - CAMERA BY DIV. 28 (REFER TO PLANS AND SPECIFICATION)	
CCTV S	CCTV SURVEILLANCE CAMERA OUTLET - CEILING MOUNTED - CAMERA BY DIV. 28 (REFER TO PLANS AND SPECIFICATION)	

NOTE: PROVIDE ADDITIONAL SPECIALTY TECHNOLOGY, SOUND AND AUDIO/VISUAL OUTLETS AND WIRING CONFIGURATIONS AS SPECIFICALLY NOTED ON PLANS.

BRANCH CIRCUITING



POWER DISTRIBUTION NAMING CONVENTION



FIRE ALARM	DESCRIPTION	MOUNTING
F X	FIRE ALARM DEVICE, WHERE "X" CAN BE ONE OF THE FOLLOWING: (blank) FIRE ALARM MANUAL PULL STATION; K FIRE ALARM MANUAL KEYED STATION; I IONIZATION DETECTOR; H THERMAL DETECTOR; P PHOTOELECTRIC SMOKE DETECTOR; DS DUCT SMOKE DETECTOR; FL SPRINKLER VALVE FLOW SWITCH; B-T BEAM DETECTOR, TRANSMITTER; B-R BEAM DETECTOR, RECEIVER; RB ROTATING BEACON; MM MONITOR MODULE; CM CONTROL MODULE; D MAGNETIC DOOR HOLDER; MR SHUTTER/ROLLING DOOR RELEASE; TS DUCT DETECTOR REMOTE TEST STATION; VDT VIDEO DISPLAY TERMINAL & KEYBOARD; PR SYSTEM EVENT PRINTER	46" 46" 80"
F H	FIRE ALARM HORN	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F S	FIRE ALARM SPEAKER	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F	FIRE ALARM STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F H	FIRE ALARM HORN WITH STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F MH	FIRE ALARM MINI-HORN WITH STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F S	FIRE ALARM SPEAKER WITH STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F	FIREFIGHTER PHONE JACK	46"
F	FIRE ALARM BELL	80"
F	FIRE ALARM CHIME	80"
F H	FIRE ALARM CHIME WITH STROBE	90" OR 6" BELOW FINISHED CEILING WHICH IS EVER LOWER
F X	SPRINKLER VALVE POSITION SWITCH	

ELECTRICAL SHEET INDEX

E000	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E002	ELECTRICAL SITE PLAN
E100	OVERALL ELECTRICAL PLANS - TC
E200a	LEVEL 1 LIGHTING PLAN - TC AREA A
E200b	LEVEL 1 LIGHTING PLAN - TC AREA B
E202a	LEVEL 2 LIGHTING PLAN - TC AREA A
E202b	LEVEL 2 LIGHTING PLAN - TC AREA B
E300a	LEVEL 1 POWER PLANS - TC AREA A
E300b	LEVEL 1 POWER PLANS - TC AREA B
E302a	LEVEL 2 POWER PLANS - TC AREA A
E302b	LEVEL 2 POWER PLANS - TC AREA B
E400a	LEVEL 1 SAFETY AND SECURITY PLAN - TC AREA A
E400b	LEVEL 1 SAFETY AND SECURITY PLAN - TC AREA B
E402a	LEVEL 2 SAFETY AND SECURITY PLAN - TC AREA A
E402b	LEVEL 2 SAFETY AND SECURITY PLAN - TC AREA B
E500	ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES
E501	120/208 VOLT PANEL SCHEDULES
E502	DETAILS AND PANEL SCHEDULES
E600	LIGHTING SCHEDULES AND DETAILS
E601	MECHANICAL SCHEDULES
E602	BUILDING SCHEDULES

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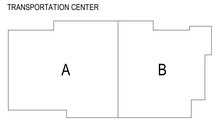
TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Typed or Printed Name: Ryan J. Lindahl
Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
ELECTRICAL SYMBOLS AND ABBREVIATIONS

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E000**

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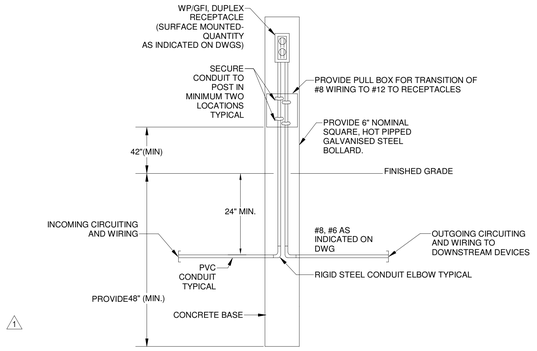


BLOCK HEATER RECEPTACLE POST DETAIL GENERAL NOTES

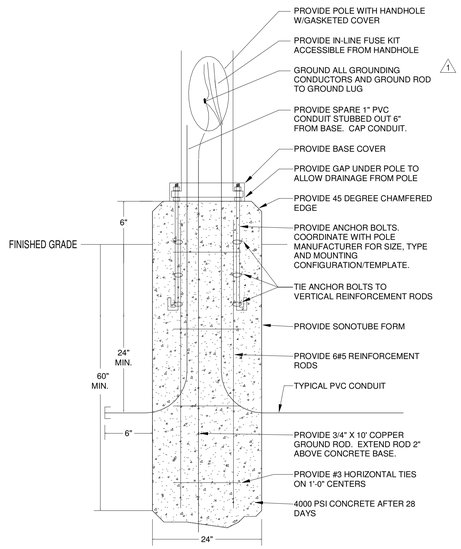
A. PROVIDE MINIMUM 1" CONDUIT, 36" BELOW GRADE.

B. FIELD VERIFY ALL SITE UTILITIES PRIOR TO ANY UNDERGROUND WORK.

C. PROVIDE ALL REQUIRED EXCAVATION OF PORTIONS OF PAVINGS AND TRENCHING. FILL TRENCHES WITH DIRT, COMPACT DIRT, AND REMOVE ALL EXCESS DIRT LEFT FROM TRENCHING, UNLESS NOTED OTHERWISE. PATCH PORTIONS OF REMOVED PAVINGS AND GREEN GRASS AREAS TO MATCH EXISTING.

D. PROVIDE SHOP DRAWINGS.

3 BLOCK HEATER RECEPTACLE POST DETAIL
NOT TO SCALE



2 POLE BASE DETAIL
NOT TO SCALE

KEYNOTES

1. PROVIDE CONCRETE POLE BASE PER DETAIL 2 ON THIS SHEET.
2. FUTURE EV CHARGER. PROVIDE IN GRADE HANDHOLE AND 1" CONDUIT BACK TO PANEL LP-1-4 FOR FUTURE EV CHARGER. PROVIDE PULL STRING.
3. FUTURE 15KW SOLAR ARRAY. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
4. PROVIDE PEDESTAL AND INSTALL WEATHER PROOF GFCI RECEPTACLE AT 48" ABOVE GRADE FOR TRUCK ENGINE BLOCK HEATERS. PROVIDE #8 WIRING BACK TO PANELBOARD. CONNECT TO PANEL AND CIRCUIT NUMBER INDICATE. REFER TO DETAIL 3 ON THIS SHEET FOR ADDITIONAL INFORMATION.
5. PROVIDE CONNECTION TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
6. PROVIDE CONNECTION CABINET. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. NEW UTILITY TRANSFOMER PROVIDED BY THE LOCAL UTLITY COMPANY. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
8. PROVIDE NEW SECONDARY SERVICE. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. PROVIDE NEW EXTERIOR RATED SERVICE RATED SWITCHBOARD. PROVIDE HOUSEKEEPING PAD. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
10. PROVIDE UNDERGROUND FEEDER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
11. PROVIDE EXTERIOR RATED TRANSFORMER. INSTALL ON EXISTING UTILITY TRANSFORMER PAD. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
12. EXISTING 1200A/120/208V/3Ø/4W SWITCHBOARD TO REMAIN SERVING THE 700 BULDING NORTH. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
13. EXISTING UTILITY TRANSFORMER AND EXISTING PRIMARY TO BE DEMOLISHED BY THE LOCAL UTILITY COMPANY. RETAIN EXISTING TRANSFORMER PAD FOR REUSE.
14. DEMOLISH EXISTING ELECTRICAL SECONDARY SERVICE (CONDUCTORS ONLY). RETAIN THE EXISTING CONDUIT FOR REUSE.
15. PROVIDE 2" EMPTY CONDUIT WITH PULL STRING FOR FIBER OPTIC CABLING. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFOMATION.

GENERAL NOTES

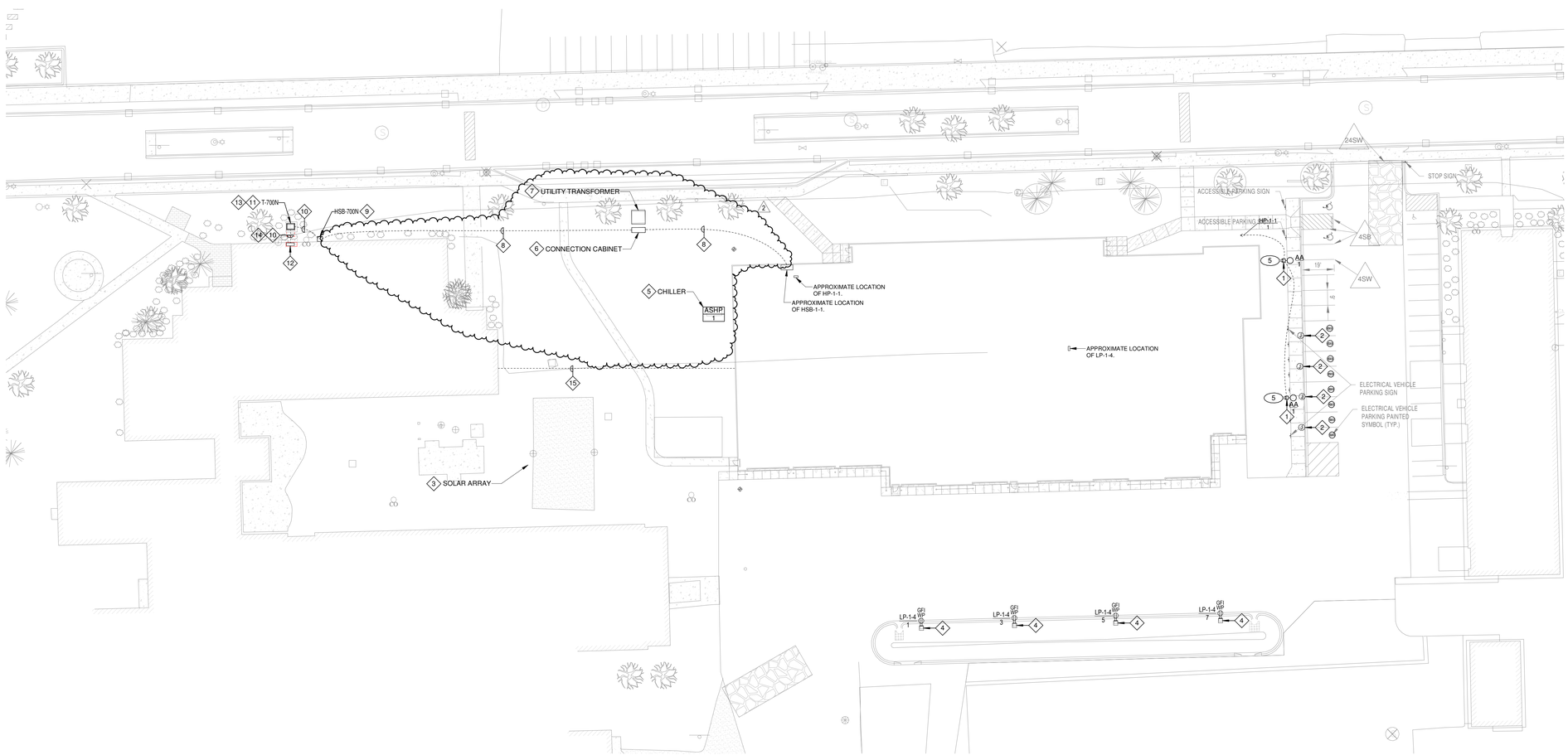
A. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY ELECTRICAL SITE WORK.

B. PROVIDE SCHEDULE 40 PVC FOR ALL UNDERGROUND CONDUITS INDICATED ON THIS PLAN. INSTALL UNDERGROUND CONDUITS A MINIMUM OF 36" BELOW FINISHED GRADE. PROVIDE A GROUNDING CONDUCTOR IN EACH CONDUIT. PROVIDE 1" MINIMUM SIZE FOR UNDERGROUND CONDUITS.

C. PROVIDE #10 AWG MINIMUM CONDUCTORS FOR ALL SITE LIGHTING CONDUCTORS, UNLESS NOTED OTHERWISE.

D. PROVIDE DIMENSIONED LOCATION, FROM A PERMANENT BENCHMARK (e.g. BUILDING FOOTING/WALL), FOR ALL UNDERGROUND CONDUIT/CABLE ON THE RECORD DRAWINGS.

E. PROVIDE LIGHT STANDARD BASE FOR EACH POLE/FIXTURE SHOWN ON SITE PLAN. SEE BASE DETAIL 2 ON THIS SHEET AND LIGHT FIXTURE SCHEDULE.



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

LHB
701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

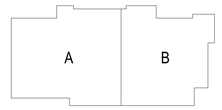
ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
5801 Duluth Street
Minneapolis, MN 55422

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	01/28/2026	BP #2 OWNER REVIEW
	12/22/2025	BID PACK #1

NO	DATE	REVISION
2	06/26/2026	PR-05
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: _____

Typed or Printed Name: Ryan J. Lindahl

Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
ELECTRICAL SITE PLAN

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E002**

Autodesk Docs://23036 ATCC Student Services & Transportation Center/E24_ATCC Student Services & Transportation Center_Central.rvt
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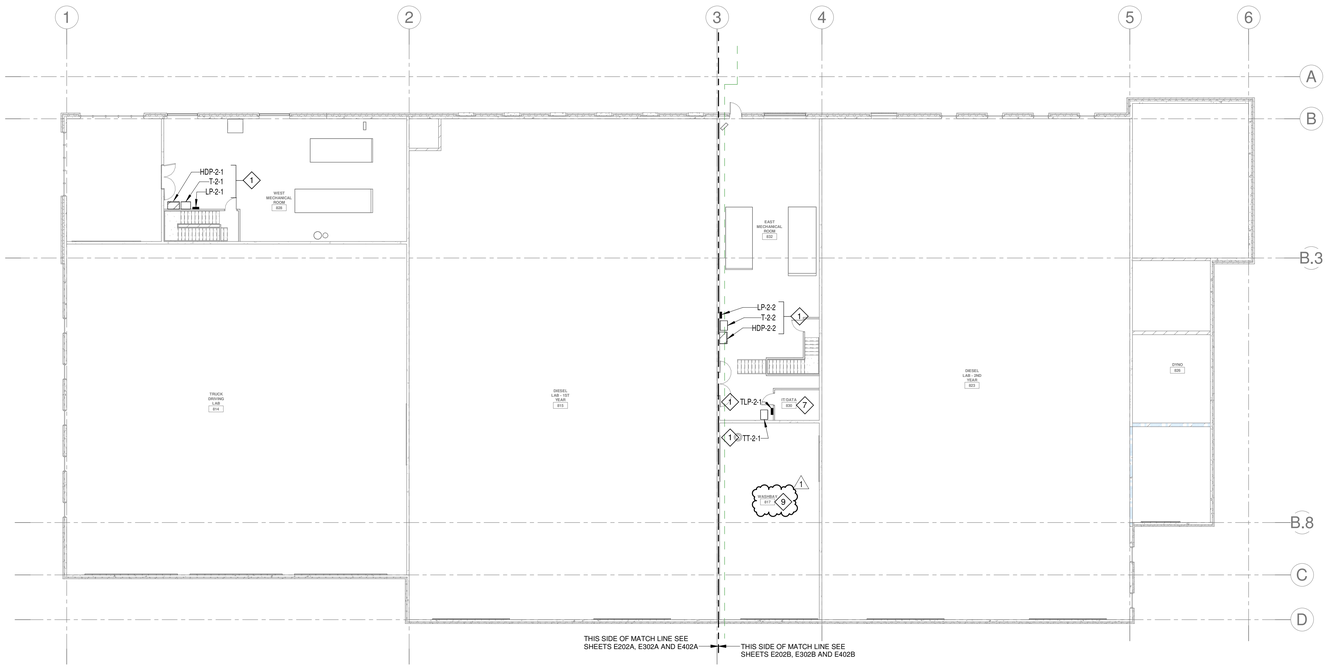
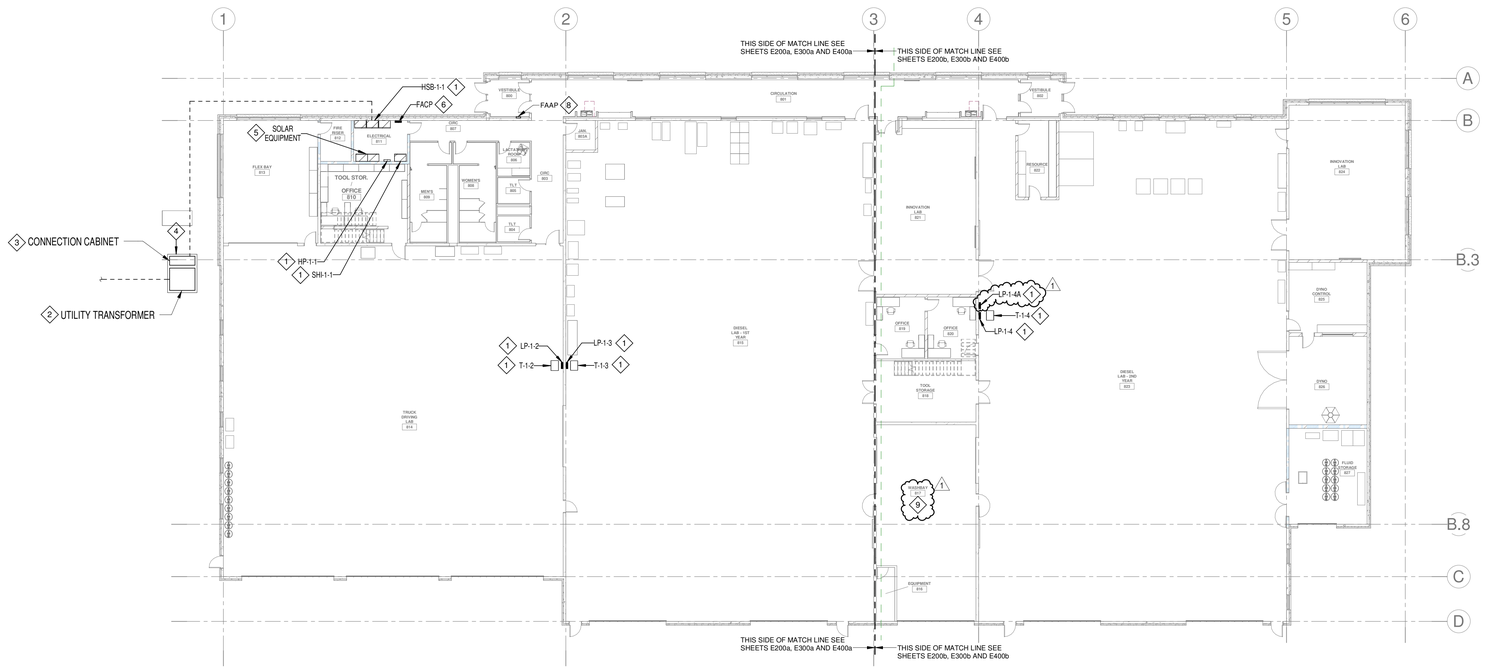


2 **LEVEL 2 - OVERALL ELECTRICAL PLAN - TC**
1/16" = 1'-0"



1 **LEVEL 1 - OVERALL ELECTRICAL PLAN - TC**
1/16" = 1'-0"

KEYNOTES

1. PROVIDE ELECTRICAL DISTRIBUTION EQUIPEMENT. REFER TO POWER PLANS AND ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. NEW UTILITY TRANSFORMER PROVIDED BY ALP UTILITIES. COORDINATE EXACT REQUIRMENTS WITH THE UTILITY COMPANY.
3. PROVIDE CONNECTION CABINET. REFER TO ONE-LINE DIAGRAM AND SPECIFICATION SECTION 26.27.13 FOR ADDITIONAL INFORMATION.
4. PROVIDE UTILITY TRANSFORMER CONCRETE HOUSEKEEPING PAD. COORDINATE EXACT REQUIREMENTS WITH ALP UTILITES.
5. FUTURE SOLAR EQUIPMENT (INVERTERS, BATTERIES AND DISCONNECT) SHOWN FOR REFERENCE. REFER TO ONE-LINE DIAGRAM SCOPE OF WORK.
6. PROVIDE FIRE ALARM CONTROL PANEL. REFER TO SAFETY AND SECURITY PLANS AND SPECIFICATION SECTION 28.31.00 FOR ADDITIONAL INFORMATION.
7. TECHNOLOGY CLOSET. REFER TO THE TECHNOLGY PLANS FOR ADDITIONAL INFORMATION.
8. PROVIDE FIRE ALARM ANNUNCIATOR PANEL. REFER TO SAFETY AND SECURITY PLANS AND SPECIFICATION SECTION 28.31.00 FOR ADDITIONAL INFORMATION.
9. VEHICAL WASH BAY: PROVIDE WEATHER PROOF BACBOXES, CONDUIT AND DEVICES IN THIS ROOM. PROVIDE GFCI PROTECTION FOR ALL ELECTRICAL BRANCH CIRCUITS SERVING THIS ROOM.

GENERAL NOTES

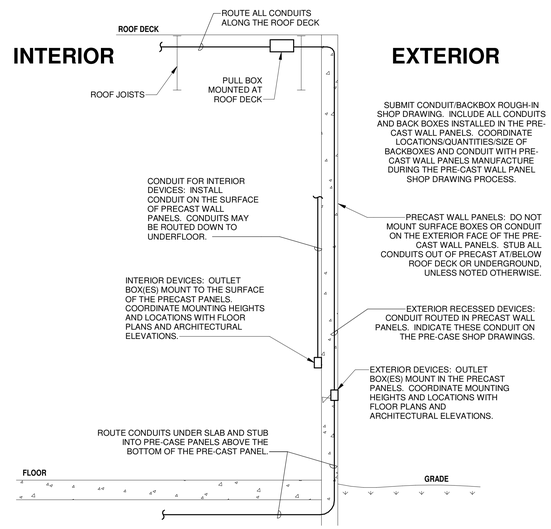
A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS OR CEILINGS REQUIRED FOR THE NEW POWER AND SIGNAL SYSTEMS. MATCH ADJACENT SURFACES.

B. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES PRIOR TO ROUGH-IN. REFER TO THE ARCHITECTURAL ELEVATIONS.

C. PROVIDE #10 AWG WIRING FOR ALL HOME RUNS IN EXCESS OF 80 FEET, (120V) UNLESS NOTED OTHERWISE.

D. **PRE-CAST CONCRETE WALLS:** REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR WALL CONSTRUCTION TYPE. PROVIDE PRE-CAST ROUGH-IN SHOP DRAWINGS INDICATING ALL CONDUIT AND BACKBOX ROUGH-INS WITH-IN THE PRE-CAST WALL PANELS. REFER TO ARCHITECURAL PLANS, STRUCTURSL SPECIFICATIONS AND SPECIFICATION SECTION 26.05.33 FOR ADDITIONAL INFORMATION. REFER TO DETAIL 3 ON THIS SHEET FOR ADDITIONAL INFORMATION.

E. USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26 05 33 (MPS).



NOTES:
A. INCLUDE ALL CONDUITS AND BACK BOXES INSTALLED IN THE PRE-CAST WALL PANELS IN THE PRE-CAST WALL PANEL SHOP DRAWINGS. COORDINATE WITH PRE-CAST WALL PANELS MANUFACTURE.

3 **PRECAST CONDUIT ROUGH-IN**
NOT TO SCALE

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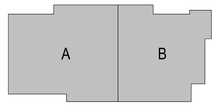
5051 Miller Trunk Highway
Hermanntown, MN 55811

ROOF CONSULTANT:
INSPEC
1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Typed or Printed Name: Ryan Lindahl
Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
OVERALL ELECTRICAL PLANS - TC

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E100**

Autodesk Docs://23076-ATCC Student Services & Transportation Center/E24_ATCC Student Services & Transportation Center_Central.rvt
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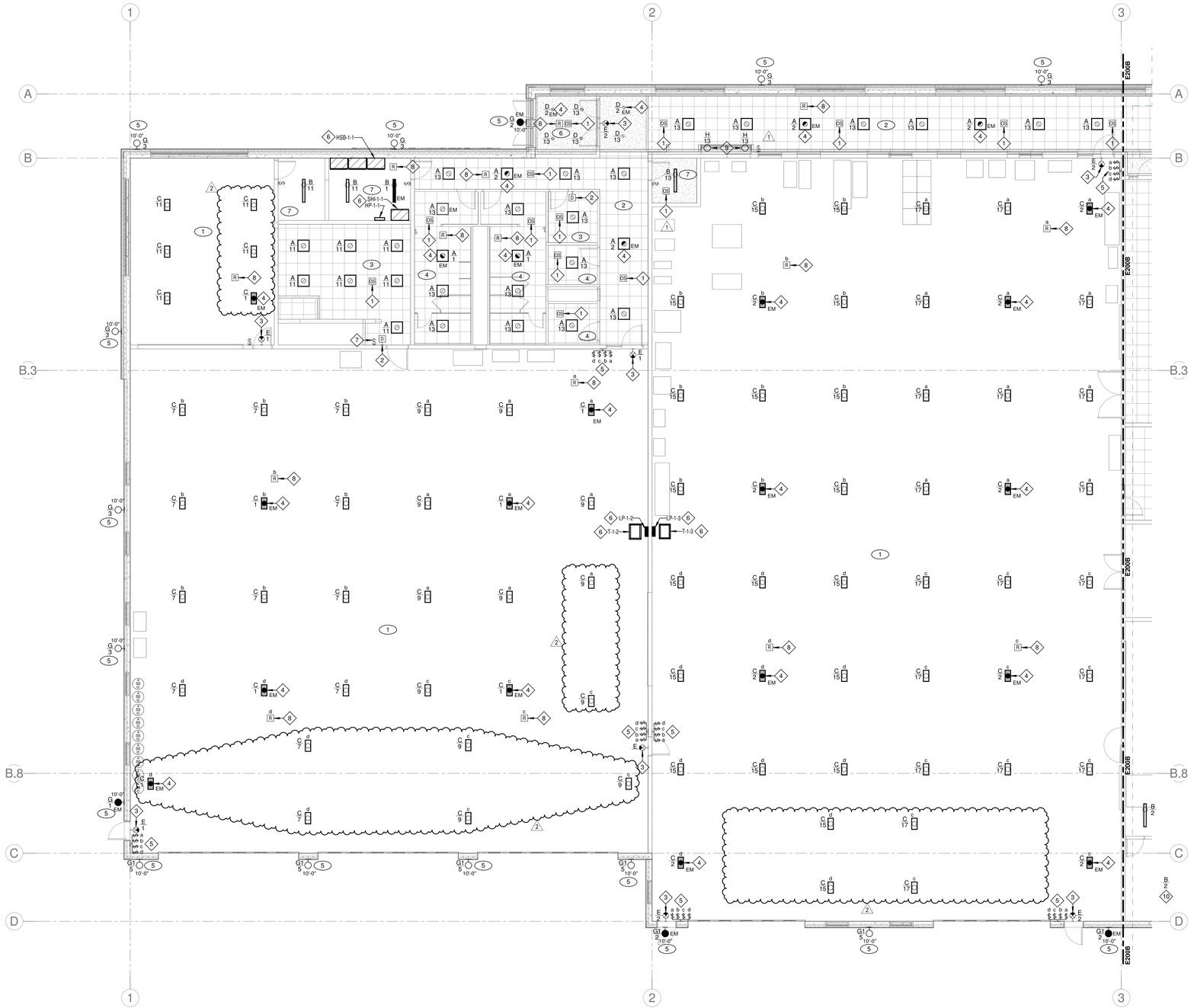

1 **LEVEL 1 - ELECTRICAL LIGHTING PLAN - TC AREA A**
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE ALL CUTTING AND PATCHING INCLUDING FIRE STOPPING OF FLOORS, WALLS OR CEILINGS REQUIRED FOR THE NEW LIGHTING SYSTEMS. MATCH ADJACENT SURFACES.

B. PROVIDE #10 AWG WIRING FOR ALL HOME RUNS IN EXCESS OF 80 FEET (120V), IN EXCESS OF 180 FEET (277V), UNLESS NOTED OTHERWISE.

C. CONNECT ALL EMERGENCY FIXTURES AND EXIT SIGNS TO LINE SIDE OF RELAY WHERE LOCAL BRANCH CIRCUIT IS RELAY CONTROLLED.

D. CONNECT ALL 277V LIGHTING CIRCUITS TO PANEL HP-1-1, UNLESS NOTED OTHERWISE.

E. CONNECT ALL 277V EMERGENCY/EXIT LIGHTING CIRCUITS TO LIGHTING INVERTER PANEL SHI-1-1, UNLESS NOTED OTHERWISE.

F. (X) INDICATES SEQUENCE OF OPERATION. REFER TO LIGHTING SEQUENCE OF OPERATION (S00) AND CONTROL DIAGRAMS ON ELECTRICAL DETAIL SHEETS FOR ADDITIONAL INFORMATION.

G. PROVIDE SEPARATE HOT, NEUTRAL AND GROUND CONDUCTORS FOR ALL DIMMING CIRCUITS. PROVIDE A MINIMUM #10 AWG CONDUCTOR FOR ALL NEUTRAL CONDUCTORS USED FOR DIMMING CIRCUITS.

H. PROVIDE CONCEALED CONDUITS FOR ALL LIGHTING CIRCUITING, UNLESS NOTED OTHERWISE.

I. PROVIDE EXPOSED CONDUITS IN EXPOSED CEILING AREAS ONLY, UNLESS NOTED OTHERWISE. MOUNT EXPOSED CONDUITS TO BOTTOM SIDE OF BEAMS OR CONCRETE PANS IN A NEAT AND ORDERLY FASHION. COORDINATE EXACT ROUTING OF ALL EXPOSED CONDUITS WITH ARCHITECT PRIOR TO ROUGH IN.

J. PROVIDE RECESSED BACKBOXES FOR ALL WALL MOUNTED CONTROLS, UNLESS NOTED OTHERWISE.

K. CONNECT ALL EXTERIOR LIGHTING ON THIS SHEET TO PANEL HP-1-1.

L. VERIFY EXACT FIXTURE MOUNTING LOCATIONS AND ELEVATION WITH ARCHITECT.

M. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR, BUILDING MOUNTED LIGHT FIXTURES.

N. WHERE LED LIGHT FIXTURES ARE SHOWN PROVIDE ADDITIONAL BRANCH CIRCUITS, RELAYS, DIMMERS, ETC. AS REQUIRED FOR THE FIXTURE TO BE COMPATIBLE WITH THE CONTROL SEQUENCE SPECIFIED. PROVIDE FULLY OPERATION SYSTEM.

O. OCCUPANCY SENSORS SHOWN ON THIS DRAWINGS ARE DIAGRAMMATIC AND INDICATE ZONE CONTROL REQUIREMENTS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR COMPLETE MOTION CONTROL COVERAGE OF THE AREA SERVED.

P. COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH STRUCTURE, PIPING, DUCTWORK, ETC. ABOVE SUSPENDED CEILING. REVISE LIGHT FIXTURE LOCATIONS AS REQUIRED TO ACCOMMODATE EXISTING (FIELD) CONDITIONS. MAINTAIN LAYOUT AND LIGHT FIXTURE SPACING AS CLOSE TO DESIGN SHOWN AS POSSIBLE.

Q. USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26 05 33.

KEYNOTES

1. PROVIDE OCCUPANCY SENSOR(S) - CONNECT TO DIGITAL LIGHTING NETWORK. PROVIDE FOR CONTROL OF LIGHTING IN THIS ROOM/SPACE. PROVIDE TYPE AS SPECIFIED IN TABLE 26.09.43. MOUNT SENSOR PER MANUFACTURERS RECOMMENDATIONS (SENSORS ARE SHOWN IN SCHEMATIC FORMAT). REFER TO SPECIFICATION SECTION 26.09.43 FOR ADDITIONAL INFORMATION.
2. PROVIDE LOW VOLTAGE DIMMER SWITCH FOR CONTROL OF LIGHTING IN THIS ROOM/SPACE. CONNECT TO DIGITAL LIGHTING NETWORK.
3. CONNECT EXIT SIGN TO UNSWITCHED LIFE SAFETY BRANCH CIRCUIT INDICATED (SHI-1-1).
4. CONNECT EMERGENCY LIGHT TO LIFE SAFETY BRANCH CIRCUIT (SHI-1-1) INDICATED VIA EMERGENCY SWITCHING RELAY INDICATED.
5. PROVIDE MOMENTARY CONTACT SWITCHES FOR CONTROL OF LIGHTING SWITCH LEGS INDICATED.
6. PROVIDE ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO ONE-LINE DIAGRAM ON SHEET E500 FOR ADDITIONAL INFORMATION.
7. PROVIDE MOMENTARY CONTACT SWITCH FOR STAIRWAY LIGHTING TO THE MECHANICAL MEZZANINE. REFER TO SHEET E202a FOR CONTINUATION.
8. PROVIDE UL924 BYPASS RELAY (QUANTIY AS REQUIRED) AND CONNECT TO EMERGENCY LIGHT FIXTURE SHOWN. CONNECT AND PROGRAM SUCH THAT: UNDER NORMAL POWER CONDITIONS LIGHT IS CONTROLLED BY CONTROLS/PROGRAMMING WITHIN THIS ROOM/SPACE. UNDER LOSS OF NORMAL POWER THE LIGHT FIXTURE WILL AUTOMATICALLY SHUNT TO 100% ILLUMINATION WITH EMERGENCY POWER.
9. INSTALL TYPE 'H' TAPE LIGHT VERTICALLY WITH-IN THE DISPLAY CASE. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. CONNECT TO ADJACENT WALL SWITCH FOR ON/OFF CONTROL.

LHB
701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER

KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION
2	05/06/2026	PR-02
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:

Typed or Printed Name: Ryan J. Lindahl

Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 1 LIGHTING PLAN - TC AREA A

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E200a**

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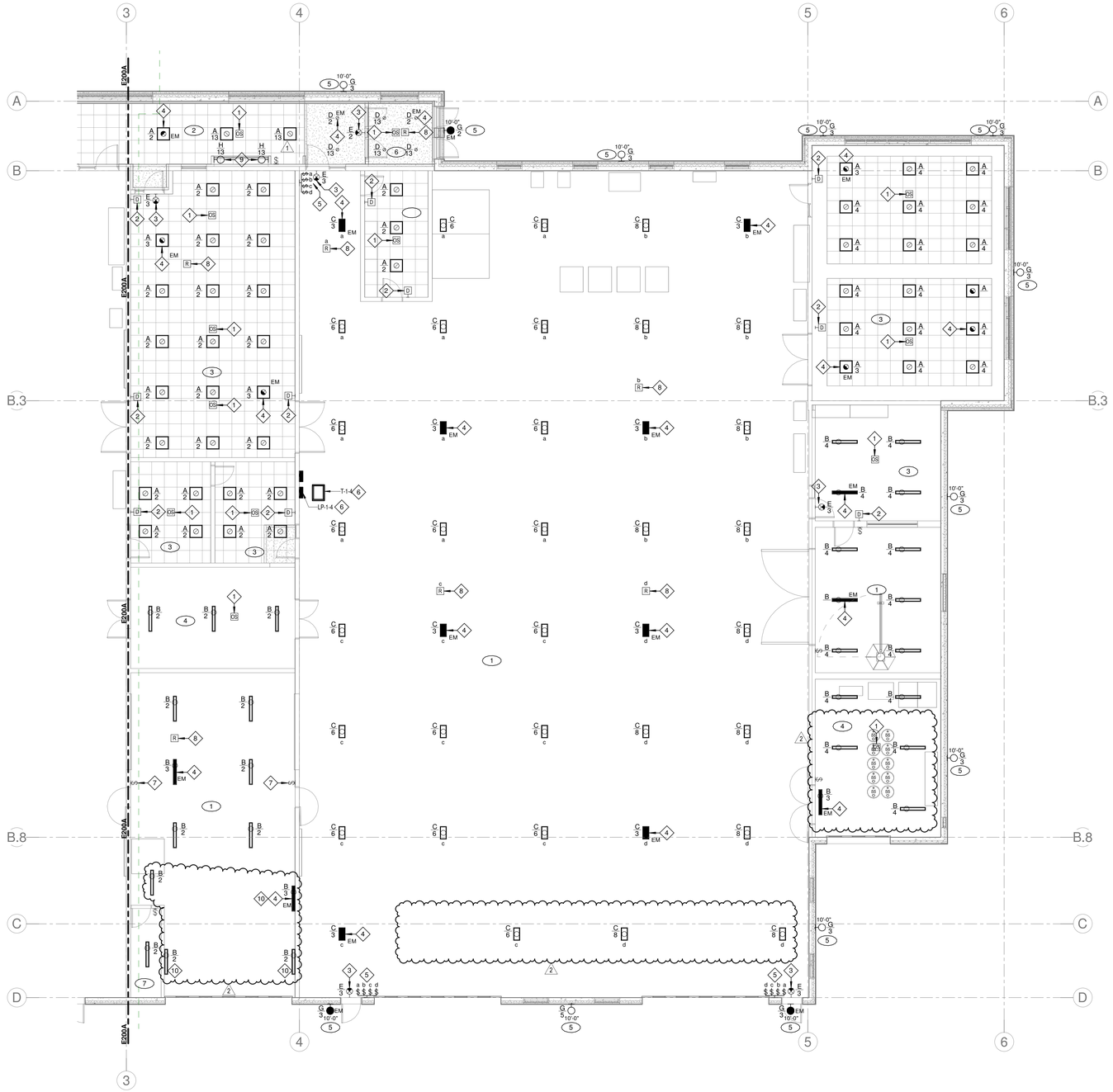

1 **LEVEL 1 - ELECTRICAL LIGHTING PLAN - TC AREA B**
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE ALL CUTTING AND PATCHING INCLUDING FIRE STOPPING OF FLOORS, WALLS OR CEILINGS REQUIRED FOR THE NEW LIGHTING SYSTEMS. MATCH ADJACENT SURFACES.

B. PROVIDE #10 AWG WIRING FOR ALL HOME RUNS IN EXCESS OF 80 FEET (120V), IN EXCESS OF 180 FEET (277V), UNLESS NOTED OTHERWISE.

C. CONNECT ALL EMERGENCY FIXTURES AND EXIT SIGNS TO LINE SIDE OF RELAY WHERE LOCAL BRANCH CIRCUIT IS RELAY CONTROLLED.

D. CONNECT ALL 277V LIGHTING CIRCUITS TO PANEL HP-1-1, UNLESS NOTED OTHERWISE.

E. CONNECT ALL 277V EMERGENCY/EXIT LIGHTING CIRCUITS TO LIGHTING INVERTER PANEL SHI-1-1, UNLESS NOTED OTHERWISE.

F. (X) INDICATES SEQUENCE OF OPERATION. REFER TO LIGHTING SEQUENCE OF OPERATION (S00) AND CONTROL DIAGRAMS ON ELECTRICAL DETAIL SHEETS FOR ADDITIONAL INFORMATION.

G. PROVIDE SEPARATE HOT, NEUTRAL AND GROUND CONDUCTORS FOR ALL DIMMING CIRCUITS. PROVIDE A MINIMUM #10 AWG CONDUCTOR FOR ALL NEUTRAL CONDUCTORS USED FOR DIMMING CIRCUITS.

H. PROVIDE CONCEALED CONDUITS FOR ALL LIGHTING CIRCUITING, UNLESS NOTED OTHERWISE.

I. PROVIDE EXPOSED CONDUITS IN EXPOSED CEILING AREAS ONLY, UNLESS NOTED OTHERWISE. MOUNT EXPOSED CONDUITS TO BOTTOM SIDE OF BEAMS OR CONCRETE PANS IN A NEAT AND ORDERLY FASHION. COORDINATE EXACT ROUTING OF ALL EXPOSED CONDUITS WITH ARCHITECT PRIOR TO ROUGH IN.

J. PROVIDE RECESSED BACKBOXES FOR ALL WALL MOUNTED CONTROLS, UNLESS NOTED OTHERWISE.

K. CONNECT ALL EXTERIOR LIGHTING ON THIS SHEET TO PANEL HP-1-1.

L. VERIFY EXACT FIXTURE MOUNTING LOCATIONS AND ELEVATION WITH ARCHITECT.

M. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR, BUILDING MOUNTED LIGHT FIXTURES.

N. WHERE LED LIGHT FIXTURES ARE SHOWN PROVIDE ADDITIONAL BRANCH CIRCUITS, RELAYS, DIMMERS, ETC. AS REQUIRED FOR THE FIXTURE TO BE COMPATIBLE WITH THE CONTROL SEQUENCE SPECIFIED. PROVIDE FULLY OPERATION SYSTEM.

O. OCCUPANCY SENSORS SHOWN ON THIS DRAWINGS ARE DIAGRAMMATIC AND INDICATE ZONE CONTROL REQUIREMENTS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR COMPLETE MOTION CONTROL COVERAGE OF THE AREA SERVED.

P. COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH STRUCTURE, PIPING, DUCTWORK, ETC. ABOVE SUSPENDED CEILING. REVISE LIGHT FIXTURE LOCATIONS AS REQUIRED TO ACCOMMODATE EXISTING (FIELD) CONDITIONS. MAINTAIN LAYOUT AND LIGHT FIXTURE SPACING AS CLOSE TO DESIGN SHOWN AS POSSIBLE.

Q. USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26 05 33.

KEYNOTES

1. PROVIDE OCCUPANCY SENSOR(S) - CONNECT TO DIGITAL LIGHTING NETWORK. PROVIDE FOR CONTROL OF LIGHTING IN THIS ROOM/SPACE. PROVIDE TYPE AS SPECIFIED IN TABLE 26.09.43. MOUNT SENSOR PER MANUFACTURERS RECOMMENDATIONS (SENSORS ARE SHOWN IN SCHEMATIC FORMAT). REFER TO SPECIFICATION SECTION 26.09.43 FOR ADDITIONAL INFORMATION.
2. PROVIDE LOW VOLTAGE DIMMER SWITCH FOR CONTROL OF LIGHTING IN THIS ROOM/SPACE. CONNECT TO DIGITAL LIGHTING NETWORK.
3. CONNECT EXIT SIGN TO UNSWITCHED LIFE SAFETY BRANCH CIRCUIT INDICATED (SHI-1-1).
4. CONNECT EMERGENCY LIGHT TO LIFE SAFETY BRANCH CIRCUIT (SHI-1-1) INDICATED VIA EMERGENCY SWITCHING RELAY INDICATED.
5. PROVIDE MOMENTARY CONTACT SWITCHES FOR CONTROL OF LIGHTING SWITCH LEGS INDICATED.
6. PROVIDE ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO ONE-LINE DIAGRAM ON SHEET E500 FOR ADDITIONAL INFORMATION.
7. PROVIDE WEATHER PROOF LIGHT SWITCH.
8. PROVIDE UL924 BYPASS RELAY (QUANTIY AS REQUIRED) AND CONNECT TO EMERGENCY LIGHT FIXTURE SHOWN. CONNECT AND PROGRAM SUCH THAT; UNDER NORMAL POWER CONDITIONS LIGHT IS CONTROLLED BY CONTROLS/PROGRAMMING WITHIN THIS ROOM/SPACE., UNDER LOSS OF NORMAL POWER THE LIGHT FIXTURE WILL AUTOMATICALLY SHUNT TO 100% ILLUMINATION WITH EMERGENCY POWER.
9. INSTALL TYPE 'H' TAPE LIGHT VERTICALLY WITH-IN THE DISPLAY CASE. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. CONNECT TO ADJACENT WALL SWITCH FOR ON/OFF CONTROL.
10. WALL MOUNT LIGHT FIXTURE AT 12'-0" ABOVE THE FINISHED FLOOR.

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CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

ELECTRICAL CONSULTANT:
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5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
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TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER

KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION
2	05/06/2026	PR-02
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:

Typed or Printed Name: Ryan J. Lindahl

Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 1 LIGHTING PLAN - TC AREA B

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E200b**

Autodesk Docs://23076 ATCC Student Services & Transportation Center/E24_ATCC Student Services & Transportation Center_Central.rvt
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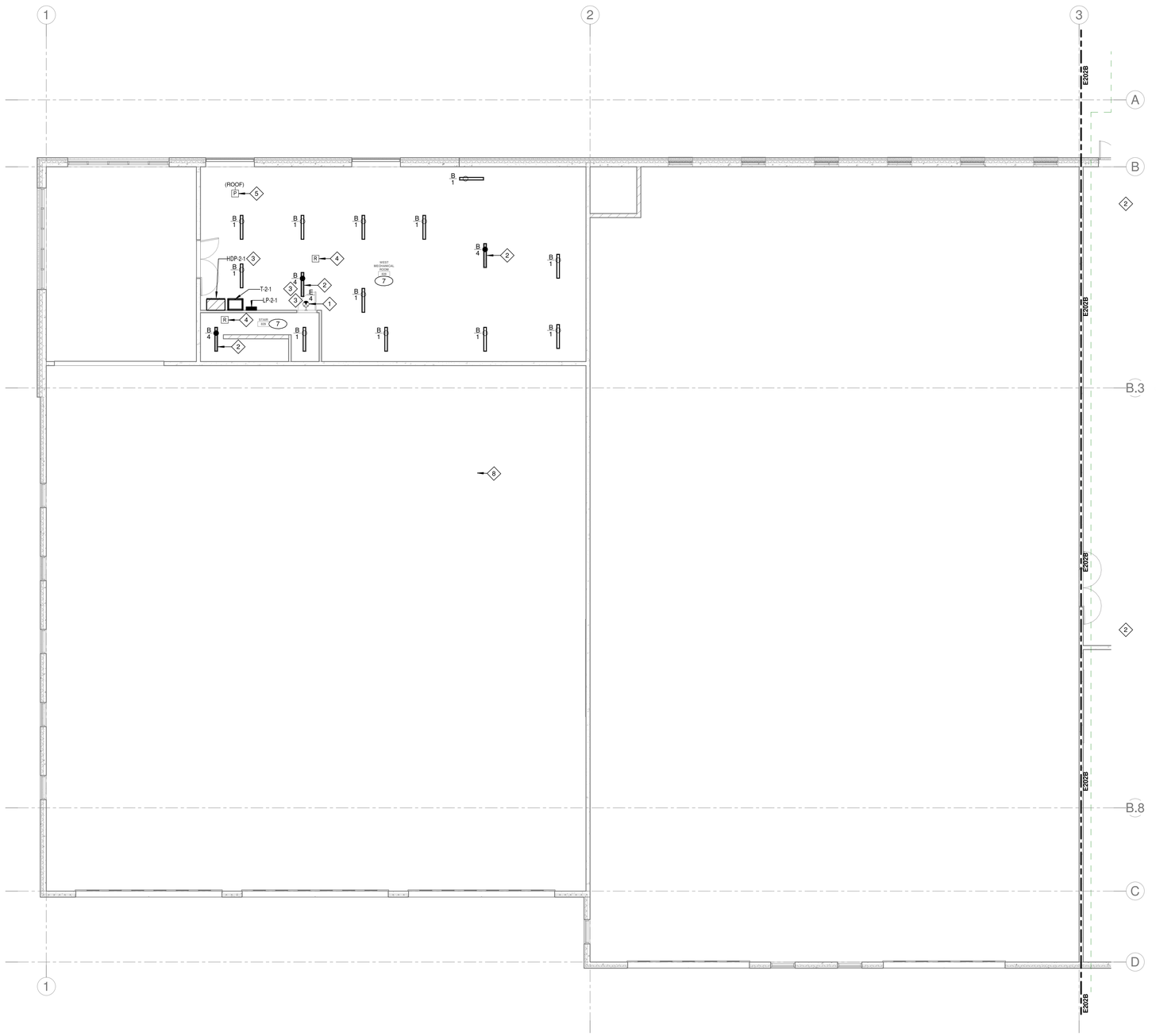

1 **LEVEL 2 - ELECTRICAL LIGHTING PLAN - TC AREA A**
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE ALL CUTTING AND PATCHING INCLUDING FIRE STOPPING OF FLOORS, WALLS OR CEILINGS REQUIRED FOR THE NEW LIGHTING SYSTEMS. MATCH ADJACENT SURFACES.

B. PROVIDE #10 AWG WIRING FOR ALL HOME RUNS IN EXCESS OF 80 FEET (120V), IN EXCESS OF 180 FEET (277V), UNLESS NOTED OTHERWISE.

C. CONNECT ALL EMERGENCY FIXTURES AND EXIT SIGNS TO LINE SIDE OF RELAY WHERE LOCAL BRANCH CIRCUIT IS RELAY CONTROLLED.

D. CONNECT ALL 277V LIGHTING CIRCUITS TO PANEL HP-1-1, UNLESS NOTED OTHERWISE.

E. CONNECT ALL 277V EMERGENCY/EXIT LIGHTING CIRCUITS TO LIGHTING INVERTER PANEL SHI-1-1, UNLESS NOTED OTHERWISE.

F. (X) INDICATES SEQUENCE OF OPERATION. REFER TO LIGHTING SEQUENCE OF OPERATION (S00) AND CONTROL DIAGRAMS ON ELECTRICAL DETAIL SHEETS FOR ADDITIONAL INFORMATION.

G. PROVIDE SEPARATE HOT, NEUTRAL AND GROUND CONDUCTORS FOR ALL DIMMING CIRCUITS. PROVIDE A MINIMUM #10 AWG CONDUCTOR FOR ALL NEUTRAL CONDUCTORS USED FOR DIMMING CIRCUITS.

H. PROVIDE CONCEALED CONDUITS FOR ALL LIGHTING CIRCUITING, UNLESS NOTED OTHERWISE.

I. PROVIDE EXPOSED CONDUITS IN EXPOSED CEILING AREAS ONLY, UNLESS NOTED OTHERWISE. MOUNT EXPOSED CONDUITS TO BOTTOM SIDE OF BEAMS OR CONCRETE PANS IN A NEAT AND ORDERLY FASHION. COORDINATE EXACT ROUTING OF ALL EXPOSED CONDUITS WITH ARCHITECT PRIOR TO ROUGH IN.

J. PROVIDE RECESSED BACKBOXES FOR ALL WALL MOUNTED CONTROLS, UNLESS NOTED OTHERWISE.

K. CONNECT ALL EXTERIOR LIGHTING ON THIS SHEET TO PANEL HP-1-1.

L. VERIFY EXACT FIXTURE MOUNTING LOCATIONS AND ELEVATION WITH ARCHITECT.

M. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR, BUILDING MOUNTED LIGHT FIXTURES.

N. WHERE LED LIGHT FIXTURES ARE SHOWN PROVIDE ADDITIONAL BRANCH CIRCUITS, RELAYS, DIMMERS, ETC. AS REQUIRED FOR THE FIXTURE TO BE COMPATIBLE WITH THE CONTROL SEQUENCE SPECIFIED. PROVIDE FULLY OPERATION SYSTEM.

O. OCCUPANCY SENSORS SHOWN ON THIS DRAWINGS ARE DIAGRAMMATIC AND INDICATE ZONE CONTROL REQUIREMENTS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR COMPLETE MOTION CONTROL COVERAGE OF THE AREA SERVED.

P. COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH STRUCTURE, PIPING, DUCTWORK, ETC. ABOVE SUSPENDED CEILING. REVISE LIGHT FIXTURE LOCATIONS AS REQUIRED TO ACCOMMODATE EXISTING (FIELD) CONDITIONS. MAINTAIN LAYOUT AND LIGHT FIXTURE SPACING AS CLOSE TO DESIGN SHOWN AS POSSIBLE.

Q. USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26 05 33.

KEYNOTES

1. CONNECT EXIT SIGN TO UNSWITCHED LIFE SAFETY BRANCH CIRCUIT INDICATED (SHI-1-1).
2. CONNECT EMERGENCY LIGHT TO LIFE SAFETY BRANCH CIRCUIT (SHI-1-1) INDICATED VIA EMERGENCY SWITCHING RELAY INDICATED.
3. PROVIDE ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO ONE-LINE DIAGRAM ON SHEET E500 FOR ADDITIONAL INFORMATION.
4. PROVIDE UL924 BYPASS RELAY (QUANTIY AS REQUIRED) AND CONNECT TO EMERGENCY LIGHT FIXTURE SHOWN. CONNECT AND PROGRAM SUCH THAT, UNDER NORMAL POWER CONDITIONS LIGHT IS CONTROLLED BY CONTROLS/PROGRAMMING WITHIN THIS ROOM/SPACE. UNDER LOSS OF NORMAL POWER THE LIGHT FIXTURE WILL AUTOMATICALLY SHUNT TO 100% ILLUMINATION WITH EMERGENCY POWER.
5. PROVIDE ROOM MOUNTED PHOTO CELL FOR CONTROL OF EXTERIOR LIGHTING. INSTALL PER MANUFACTURES RECOMMENDATIONS. CONNECT TO DIGITAL LIGHTING SYSTME.

LHB
701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER

KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Typed or Printed Name: Ryan J. Lindahl
Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 2 LIGHTING PLAN - TC AREA A

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E202a**

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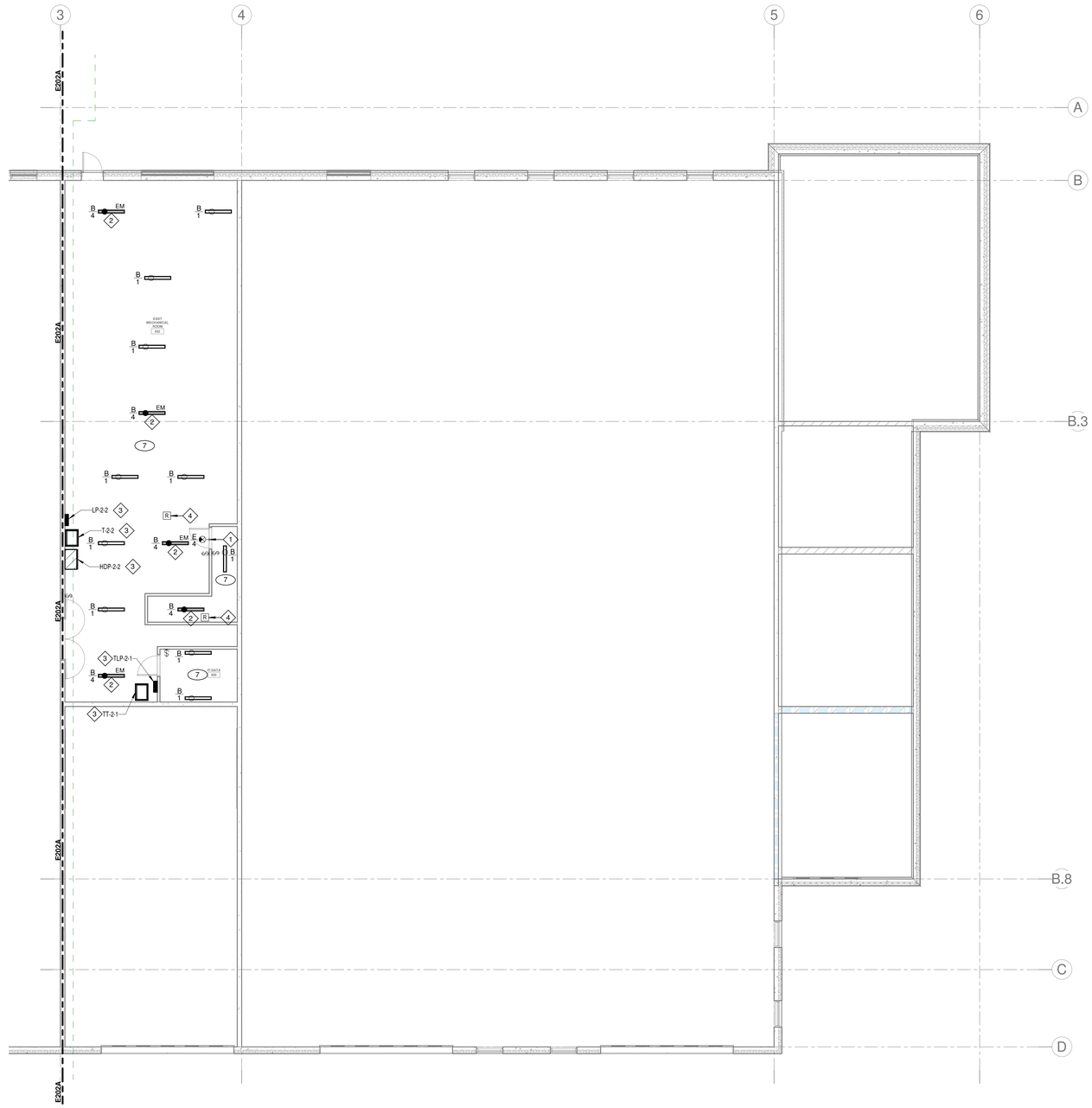

1 **LEVEL 2 - ELECTRICAL LIGHTING PLAN - TC AREA B**
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE ALL CUTTING AND PATCHING INCLUDING FIRE STOPPING OF FLOORS, WALLS OR CEILINGS REQUIRED FOR THE NEW LIGHTING SYSTEMS. MATCH ADJACENT SURFACES.

B. PROVIDE #10 AWG WIRING FOR ALL HOME RUNS IN EXCESS OF 80 FEET (120V), IN EXCESS OF 180 FEET (277V), UNLESS NOTED OTHERWISE.

C. CONNECT ALL EMERGENCY FIXTURES AND EXIT SIGNS TO LINE SIDE OF RELAY WHERE LOCAL BRANCH CIRCUIT IS RELAY CONTROLLED.

D. CONNECT ALL 277V LIGHTING CIRCUITS TO PANEL HP-1-1, UNLESS NOTED OTHERWISE.

E. CONNECT ALL 277V EMERGENCY/EXIT LIGHTING CIRCUITS TO LIGHTING INVERTER PANEL SHI-1-1, UNLESS NOTED OTHERWISE.

F. (X) INDICATES SEQUENCE OF OPERATION. REFER TO LIGHTING SEQUENCE OF OPERATION (S00) AND CONTROL DIAGRAMS ON ELECTRICAL DETAIL SHEETS FOR ADDITIONAL INFORMATION.

G. PROVIDE SEPARATE HOT, NEUTRAL AND GROUND CONDUCTORS FOR ALL DIMMING CIRCUITS. PROVIDE A MINIMUM #10 AWG CONDUCTOR FOR ALL NEUTRAL CONDUCTORS USED FOR DIMMING CIRCUITS.

H. PROVIDE CONCEALED CONDUITS FOR ALL LIGHTING CIRCUITING, UNLESS NOTED OTHERWISE.

I. PROVIDE EXPOSED CONDUITS IN EXPOSED CEILING AREAS ONLY, UNLESS NOTED OTHERWISE. MOUNT EXPOSED CONDUITS TO BOTTOM SIDE OF BEAMS OR CONCRETE PANS IN A NEAT AND ORDERLY FASHION. COORDINATE EXACT ROUTING OF ALL EXPOSED CONDUITS WITH ARCHITECT PRIOR TO ROUGH IN.

J. PROVIDE RECESSED BACKBOXES FOR ALL WALL MOUNTED CONTROLS, UNLESS NOTED OTHERWISE.

K. CONNECT ALL EXTERIOR LIGHTING ON THIS SHEET TO PANEL HP-1-1.

L. VERIFY EXACT FIXTURE MOUNTING LOCATIONS AND ELEVATION WITH ARCHITECT.

M. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR, BUILDING MOUNTED LIGHT FIXTURES.

N. WHERE LED LIGHT FIXTURES ARE SHOWN PROVIDE ADDITIONAL BRANCH CIRCUITS, RELAYS, DIMMERS, ETC. AS REQUIRED FOR THE FIXTURE TO BE COMPATIBLE WITH THE CONTROL SEQUENCE SPECIFIED. PROVIDE FULLY OPERATION SYSTEM.

O. OCCUPANCY SENSORS SHOWN ON THIS DRAWINGS ARE DIAGRAMMATIC AND INDICATE ZONE CONTROL REQUIREMENTS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR COMPLETE MOTION CONTROL COVERAGE OF THE AREA SERVED.

P. COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH STRUCTURE, PIPING, DUCTWORK, ETC. ABOVE SUSPENDED CEILING. REVISE LIGHT FIXTURE LOCATIONS AS REQUIRED TO ACCOMMODATE EXISTING (FIELD) CONDITIONS. MAINTAIN LAYOUT AND LIGHT FIXTURE SPACING AS CLOSE TO DESIGN SHOWN AS POSSIBLE.

Q. USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26 05 33.

KEYNOTES

1. CONNECT EXIT SIGN TO UNSWITCHED LIFE SAFETY BRANCH CIRCUIT INDICATED (SHI-1-1).
2. CONNECT EMERGENCY LIGHT TO LIFE SAFETY BRANCH CIRCUIT (SHI-1-1) INDICATED VIA EMERGENCY SWITCHING RELAY INDICATED.
3. PROVIDE ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO ONE-LINE DIAGRAM ON SHEET E500 FOR ADDITIONAL INFORMATION.
4. PROVIDE UL924 BYPASS RELAY (QUANTIY AS REQUIRED) AND CONNECT TO EMERGENCY LIGHT FIXTURE SHOWN. CONNECT AND PROGRAM SUCH THAT; UNDER NORMAL POWER CONDITIONS LIGHT IS CONTROLLED BY CONTROLS/PROGRAMMING WITHIN THIS ROOM/SPACE . UNDER LOSS OF NORMAL POWER THE LIGHT FIXTURE WILL AUTOMATICALLY SHUNT TO 100% ILLUMINATION WITH EMERGENCY POWER.

LHB
701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:
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Hermantown, MN 55811

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1917 Coventry Court
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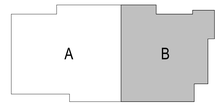
TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Typed or Printed Name: Ryan J. Lindahl
Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 2 LIGHTING PLAN - TC AREA B

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E202b**

Autodesk Docs://23726 ATCC Student Services & Transportation Center/E24_ATCC Student Services & Transportation Center_Central.rvt
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GENERAL NOTES

A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS OR CEILINGS REQUIRED FOR THE NEW POWER AND SIGNAL SYSTEMS. MATCH ADJACENT SURFACES.

B. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES PRIOR TO ROUGH-IN. REFER TO THE ARCHITECTURAL ELEVATIONS.

C. PROVIDE #10 AWG WIRING FOR ALL HOME RUNS IN EXCESS OF 80 FEET, (120V) UNLESS NOTED OTHERWISE.

D. PROVIDE GREY RECEPTACLES FOR EACH NORMAL POWER RECEPTACLE (INCLUDING GFI). NORMAL POWER RECEPTACLES ARE INDICATED BY "XX". CONNECT TO THE NORMAL POWER PANEL INDICATED (LP-#-#).

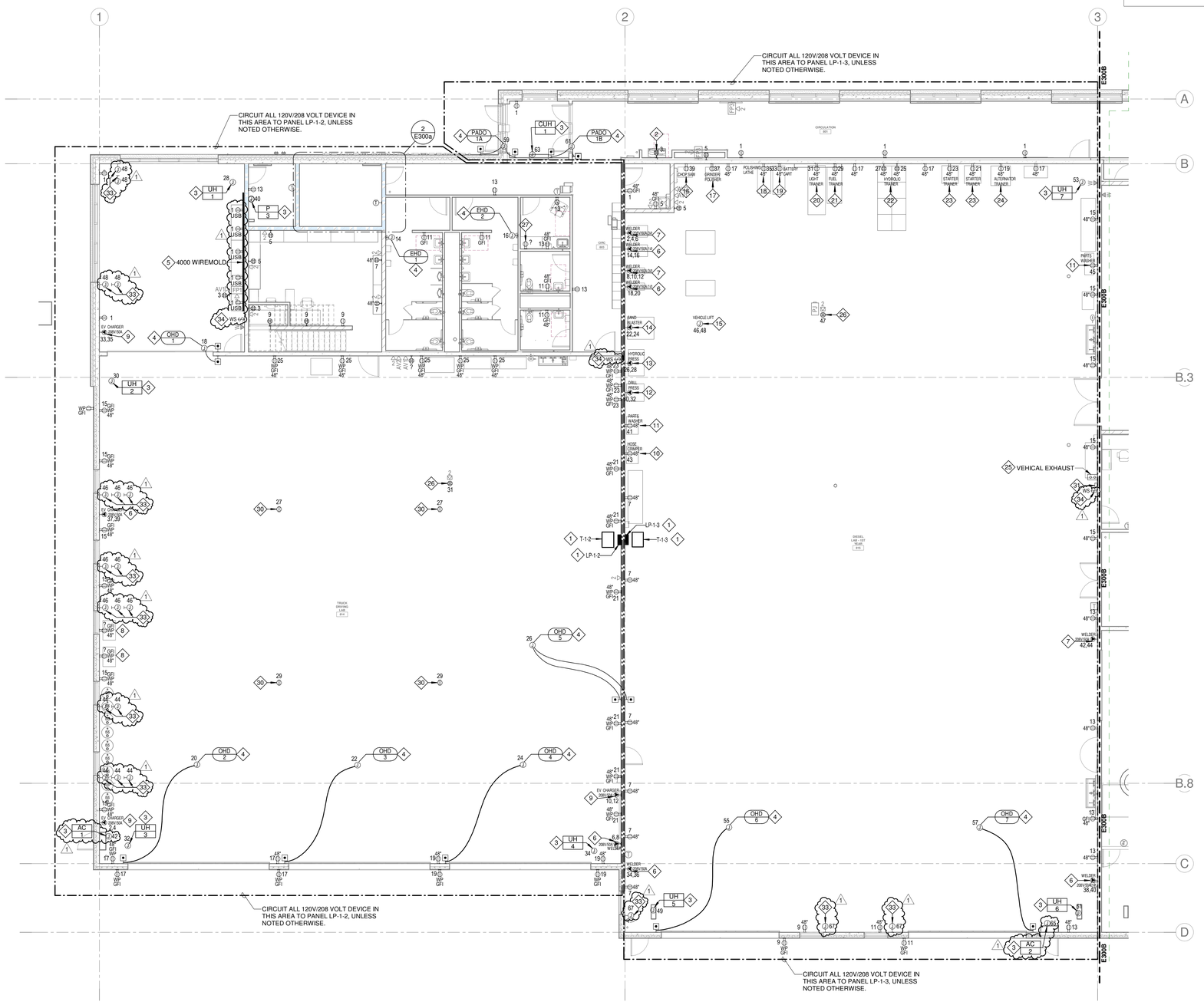
E. PROVIDE SEPARATE HOT, NEUTRAL AND GROUNDING CONDUCTORS FOR EACH TECHNOLOGY CIRCUIT. PROVIDE BLUE SURGE SUPRESSION TYPE RECEPTACLES FOR EACH TECHNOLOGY RECEPTACLE. TECHNOLOGY RECEPTACLES ARE INDICATE BY "SS". CONNECT TO THE BRANCH CIRCUIT INDICATED.

F. PROVIDE CONDUIT AND BACKBOX ROUGH-IN FOR ALL LOW VOLTAGE AND SECURITY DEVICES. REFER TO THE TECHNOLOGY SHEETS (T00 THRU T700) FOR ADDITIONAL INFORMATION.

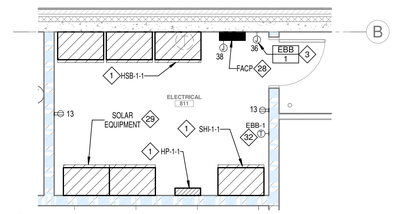
G. USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26 05 33.

KEYNOTES

1. PROVIDE ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO ONE-LINE DIAGRAM ON SHEET E500 FOR ADDITIONAL INFORMATION.
2. PROVIDE GFCI PROTECTED FOURPLEX RECEPTACLE FOR CONNECTION TO ELECTRICAL WATER COOLER. COORDINATE EXACT MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR INSTALLING WATER COOLER SUCH THAT RECEPTACLE IS LOCATED BEHIND THE DECORATIVE SHROUD COVERING THE WATER COOLER. PROVIDE 20A GFI BREAKER TO PROTECT THIS CIRCUIT.
3. PROVIDE CONNECTION TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
4. PROVIDE CONNECTION TO BUILDING EQUIPMENT. REFER TO BUILDING EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
5. PROVIDE SURFACE MOUNTED 4000 WIREMOLD FOR INSTALLATION OF RECEPTACLES AND DATA DEVICES ON THIS WALL. MOUNT WIREMOLD AT 48" ABOVE THE FINISHED FLOOR.
6. PROVIDE DEDICATED 50A/208V/1ø BRANCH CIRCUIT AND NEMA 6-50R RECEPTACLE FOR WELDER OUTLET. CONNECT TO BRANCH CIRCUIT INDICATED.
7. PROVIDE DEDICATED 60A/208V/3ø BRANCH CIRCUIT AND NEMA 15-60R RECEPTACLE FOR WELDER OUTLET. CONNECT TO BRANCH CIRCUIT INDICATED.
8. PROVIDE DEDICATED 30A/120V/1ø BRANCH CIRCUIT AND NEMA 5-30R RECEPTACLE FOR PRESSURE WASHER. CONNECT TO BRANCH CIRCUIT INDICATED.
9. PROVIDE DEDICATED 50A/208V/1ø BRANCH CIRCUIT AND NEMA 6-50R RECEPTACLE FOR FUTURE ELECTRIC VEHICLE CHARGER. CONNECT TO BRANCH CIRCUIT INDICATED.
10. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT FOR HOSE CRIMPER AND NEMA 5-20R RECEPTACLE. CONNECT TO BRANCH CIRCUIT INDICATED.
11. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT FOR PARTS WASHER AND NEMA 5-20R RECEPTACLE. CONNECT TO BRANCH CIRCUIT INDICATED.
12. PROVIDE DEDICATED 20A/208V/3ø BRANCH CIRCUIT AND LOCKING NEMA L15-20R RECEPTACLE FOR DRILL PRESS. CONNECT TO BRANCH CIRCUIT INDICATED.
13. PROVIDE DEDICATED 20A/208V/1ø BRANCH CIRCUIT AND NEMA 6-20R RECEPTACLE FOR HYDRAULIC PRESS. CONNECT TO BRANCH CIRCUIT INDICATED.
14. PROVIDE DEDICATED 20A/208V/1ø BRANCH CIRCUIT AND NEMA 6-20R RECEPTACLE FOR SAND BLASTER. CONNECT TO BRANCH CIRCUIT INDICATED.
15. PROVIDE DEDICATED 20A/208V/1ø BRANCH CIRCUIT AND CONNECT TO HYDRAULIC VEHICLE LIFT. CONNECT TO BRANCH CIRCUIT INDICATED.
16. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR CHOP SAW. CONNECT TO BRANCH CIRCUIT INDICATED.
17. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR GRINDER/POLISHER. CONNECT TO BRANCH CIRCUIT INDICATED.
18. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR POLISHING LATHE. CONNECT TO BRANCH CIRCUIT INDICATED.
19. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR BATTERY CART. CONNECT TO BRANCH CIRCUIT INDICATED.
20. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR LIGHT TRAINER. CONNECT TO BRANCH CIRCUIT INDICATED.
21. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR FUEL TRAINER. CONNECT TO BRANCH CIRCUIT INDICATED.
22. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR HYDRAULIC TRAINER. CONNECT TO BRANCH CIRCUIT INDICATED.
23. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR STARTER TRAINER. CONNECT TO BRANCH CIRCUIT INDICATED.
24. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR ALTERNATOR TRAINER. CONNECT TO BRANCH CIRCUIT INDICATED.
25. INSTALL VEHICLE EXHAUST CONTROLS (EXHAUT FANS AND HOSE REELS) FURNISHED BY THE MECHANICAL CONTRACTOR IN THIS LOCATION. REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
26. PROVIDE CEILING MOUNTED RECEPTACLE FOR PROJECTOR. COORDINATE LOCATION WITH LOW VOLTAGE CONTRACTOR. CONNECT TO BRANCH CIRCUIT INDICATED.
27. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR UNDER COUNTER FRIDGE. CONNECT TO BRANCH CIRCUIT INDICATED.
28. PROVIDE DEDICATED 120V/20A/1ø BRANCH CIRCUIT FOR THE FIRE ALARM CONTROL PANEL. PROVIDE HANDLE LOCK ON CIRCUIT BREAKER. REFE TO ELECTRONIC SAFETY AND SECURITY PLANS FOR ADDITIONAL INFORMATION. CONNECT TO BRANCH CIRCUIT INDICATED.
29. PROVIDE SOLAR BATTERY AND DISCONNECTING EQUIPMENT. REFER TO ONE- LINE DIAGRAM FOR ADDITIONAL INFORMATION.
30. PROVIDE CEILING MOUNTED CORD REEL. REFER TO DETAIL FOR ADDITIONAL INFORMATION. CONNECT TO BRANCH CIRCUIT INDICATED.
31. INSTALL CONTROL PANEL FOR DESTRATIFICATION FANS. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
32. INSTALL REMOTE THERMOSTAT FURNISHED BY DIVISION 23 AND CONNECT TO MECHANICAL EQUIPMENT INDICATED.
33. PROVIDE 120V/1ø CONNECTION TO MOTORIZED WINDOW SHADE AND ASSOCIATED CONTROLS (DESCRIBED IN KEY NOTE 34). REFER ARCHITECTURAL ELEVATIONS FOR WINDOW SHADE LOCATIONS. CONENCT TO BRANCH CIRCUIT INDICATED.
34. INSTALL WINDOW SHADE CONTROLS AND CONNECT TO WINDOW SHADES.



1 **LEVEL 1 - ELECTRICAL POWER PLAN - TC AREA A**
1/8" = 1'-0"



2 **ENLARGED ELECTRICAL ROOM POWER PLAN**
1/4" = 1'-0"

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CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER

KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Typed or Printed Name: Ryan Lindahl
Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 1 POWER PLANS - TC AREA A

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E300a**

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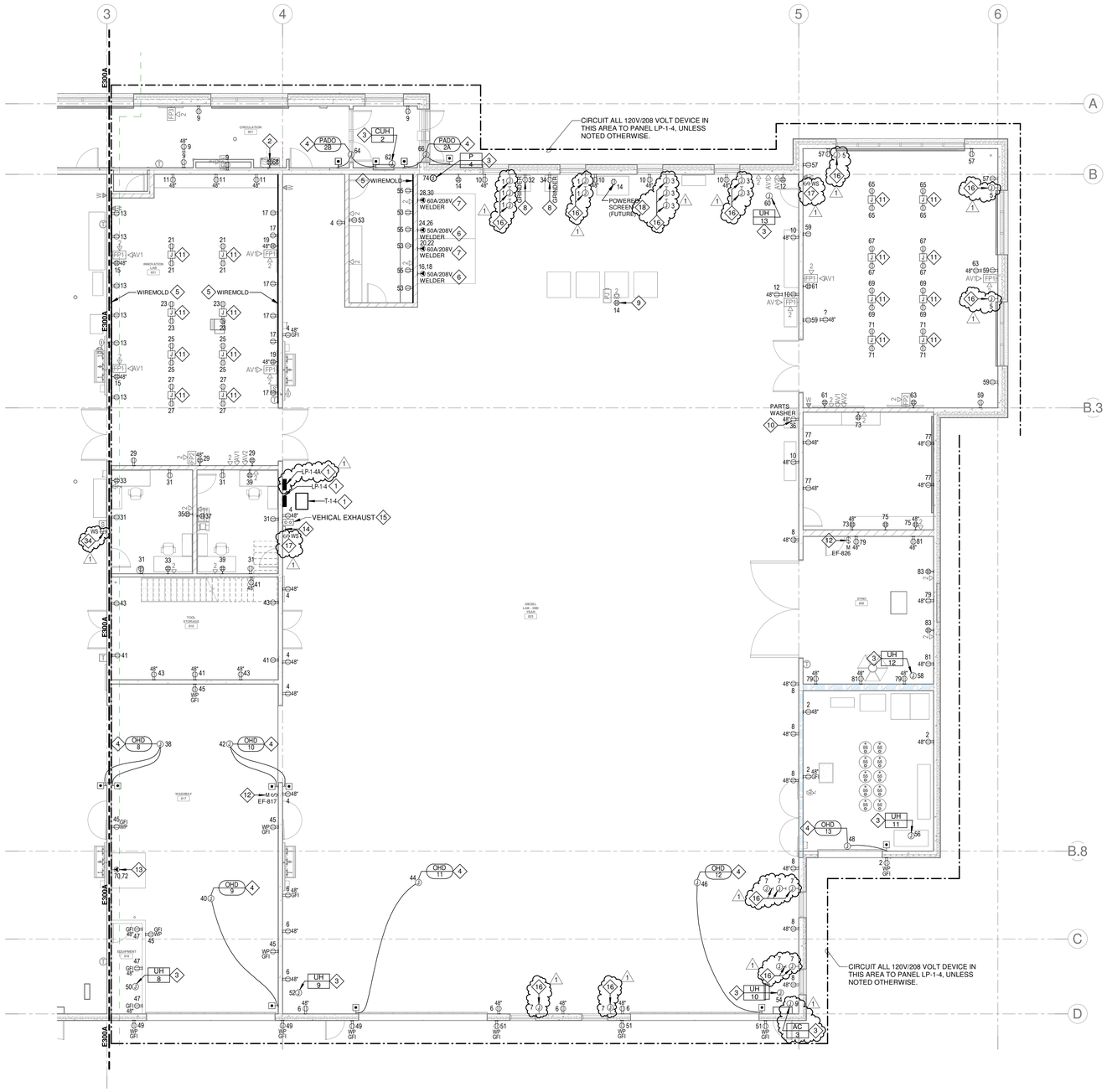

1 **LEVEL 1 - ELECTRICAL POWER PLAN - TC AREA B**
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS OR CEILINGS REQUIRED FOR THE NEW POWER AND SIGNAL SYSTEMS. MATCH ADJACENT SURFACES.

B. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES PRIOR TO ROUGH-IN. REFER TO THE ARCHITECTURAL ELEVATIONS.

C. PROVIDE #10 AWG WIRING FOR ALL HOME RUNS IN EXCESS OF 80 FEET, (120V) UNLESS NOTED OTHERWISE.

D. PROVIDE GREY RECEPTACLES FOR EACH NORMAL POWER RECEPTACLE (INCLUDING GFI). NORMAL POWER RECEPTACLES ARE INDICATED BY "XX". CONNECT TO THE NORMAL POWER PANEL INDICATED (LP-#-#).

E. PROVIDE SEPARATE HOT, NEUTRAL AND GROUNDING CONDUCTORS FOR EACH TECHNOLOGY CIRCUIT. PROVIDE BLUE SURGE SUPRESSION TYPE RECEPTACLES FOR EACH TECHNOLOGY RECEPTACLE. TECHNOLOGY RECEPTACLES ARE INDICATE BY "SS". CONNECT TO THE BRANCH CIRCUIT INDICATED.

F. PROVIDE CONDUIT AND BACKBOX ROUGH-IN FOR ALL LOW VOLTAGE AND SECURITY DEVICES. REFER TO THE TECHNOLOGY SHEETS (T00 THRU T700) FOR ADDITIONAL INFORMATION.

G. USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26 05 33.

KEYNOTES

1. PROVIDE ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO ONE-LINE DIAGRAM ON SHEET E500 FOR ADDITIONAL INFORMATION.
2. PROVIDE GFCI PROTECTED FOURPLEX RECEPTACLE FOR CONNECTION TO ELECTRICAL WATER COOLER. COORDINATE EXACT MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR INSTALLING WATER COOLER SUCH THAT RECEPTACLE IS LOCATED BEHIND THE DECORATIVE SHROUD COVERING THE WATER COOLER. PROVIDE 20A GFI BREAKER TO PROTECT THIS CIRCUIT.
3. PROVIDE CONNECTION TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
4. PROVIDE CONNECTION TO BUILDING EQUIPMENT. REFER TO BUILDING EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
5. PROVIDE SURFACE MOUNTED 4000 WIREMOLD FOR INSTALLATION OF RECEPTACLES AND DATA DEVICES ON THIS WALL. MOUNT WIREMOLD AT 48" ABOVE THE FINISHED FLOOR OR 4" ABOUT THE COUNTER BACKSPLASH.
6. PROVIDE DEDICATED 50A/208V/1ø BRANCH CIRCUIT AND NEMA 6-50R RECEPTACLE FOR WELDER OUTLET. CONNECT TO BRANCH CIRCUIT INDICATED.
7. PROVIDE DEDICATED 60A/208V/3ø BRANCH CIRCUIT AND NEMA 15-60R RECEPTACLE FOR WELDER OUTLET. CONNECT TO BRANCH CIRCUIT INDICATED.
8. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT AND NEMA 5-20R RECEPTACLE FOR GRINDER. CONNECT TO BRANCH CIRCUIT INDICATED.
9. PROVIDE CEILING MOUNTED RECEPTACLE FOR PROJECTOR. COORDINATE LOCATION WITH LOW VOLTAGE CONTRACTOR. CONNECT TO BRANCH CIRCUIT INDICATED.
10. PROVIDE DEDICATED 20A/120V/1ø BRANCH CIRCUIT FOR PARTS WASHER AND NEMA 5-20R RECEPTACLE. CONNECT TO BRANCH CIRCUIT INDICATED.
11. PROVIDE FLOOR BOX WITH DEVICES SHOWN. PROVIDE 1" CONDUIT FROM FLOOR BOX TO ACCESSIBLE CEILING SPACE FOR WIRING. CONNECT TO BRANCH CIRCUIT INDICATED.
12. PROVIDE MOTOR STARTER SWITCH WITH PILOT LIGHT FOR MOTOR INDICATED. ENGRAVE NAMEPLATE "EXHAUST". REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
13. PROVIDE DEDICATED 20A/208V/1ø BRANCH CIRCUIT AND NEMA 6-20R RECEPTACLE FOR POWER WASHER OUTLET. CONNECT TO BRANCH CIRCUIT INDICATED.
14. INSTALL CONTROL PANEL FOR DESTRATIFICATION FANS. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
15. INSTALL VEHICLE EXHAUST CONTROLS (EXHAUST AND HOSE REELS) FURNISHED BY THE MECHANICAL CONTRACTOR IN THIS LOCATION. REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
16. PROVIDE 120V/1ø CONNECTION TO MOTORIZED WINDOW SHADE AND ASSOCIATED CONTROLS (DESCRIBED IN KEY NOTE 34). REFER ARCHITECTURAL ELEVATIONS FOR WINDOW SHADE LOCATIONS. CONENCT TO BRANCH CIRCUIT INDICATED.
17. INSTALL WINDOW SHADE CONTROLS AND CONNECT TO WINDOW SHADES.
18. PROVIDE CEILING MOUNTED RECEPTACLE FOR FUTURE POWER OPERATED SCREEN. CONNECT TO BRANCH CIRCUIT INDICATED.

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CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

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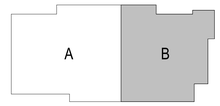
Mendota Heights, MN 55118

TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:

Typed or Printed Name: Ryan Lindahl

Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 1 POWER PLANS - TC AREA B

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E300b**

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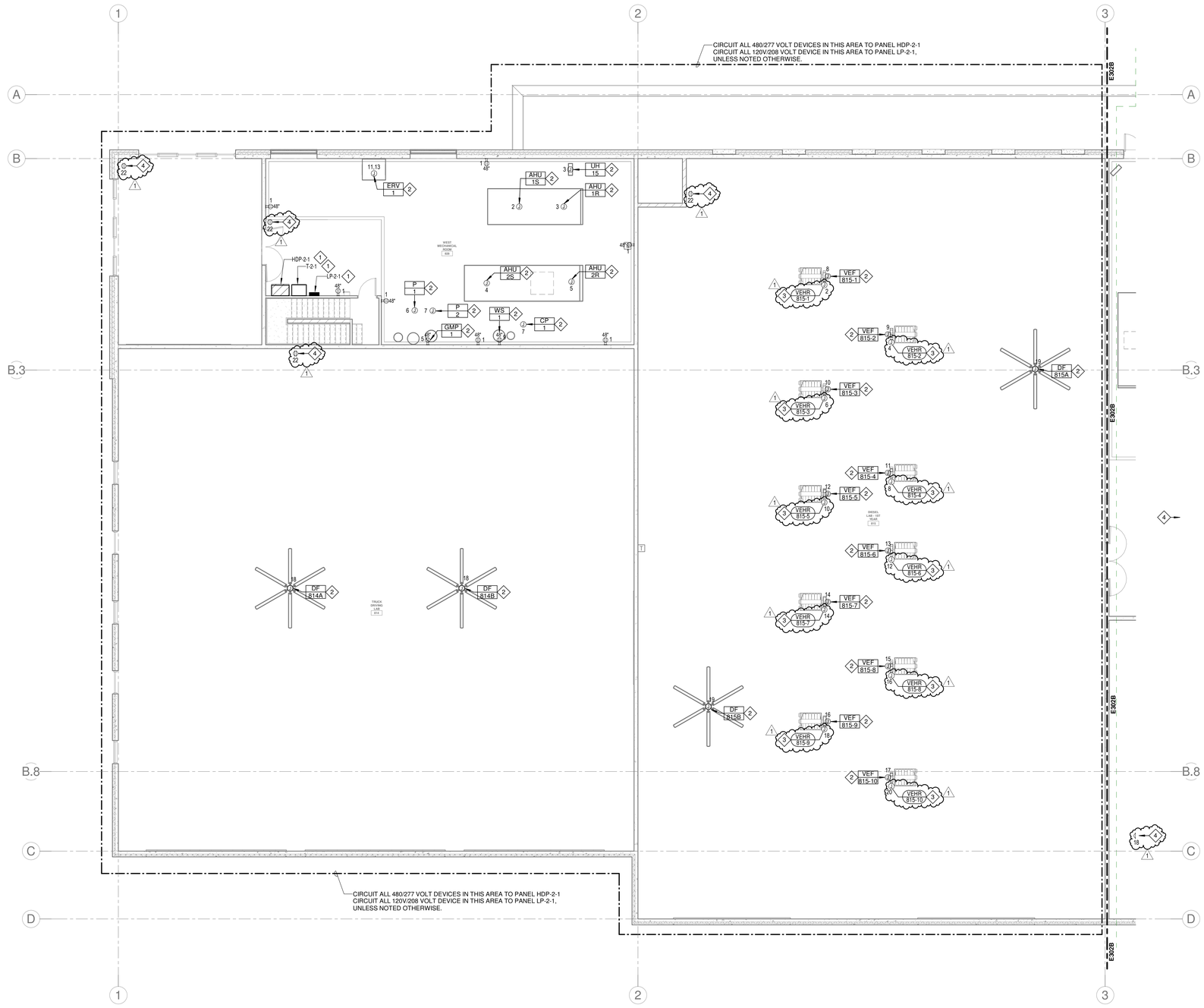

CIRCUIT ALL 480/277 VOLT DEVICES IN THIS AREA TO PANEL HDP-2-1
CIRCUIT ALL 120V/208 VOLT DEVICE IN THIS AREA TO PANEL LP-2-1,
UNLESS NOTED OTHERWISE
CIRCUIT ALL 480/277 VOLT DEVICES IN THIS AREA TO PANEL HDP-2-1
CIRCUIT ALL 120V/208 VOLT DEVICE IN THIS AREA TO PANEL LP-2-1,
UNLESS NOTED OTHERWISE.
E302B
E302A
E302B
E302B
E302B

GENERAL NOTES

A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS OR CEILINGS REQUIRED FOR THE NEW POWER AND SIGNAL SYSTEMS. MATCH ADJACENT SURFACES.

B. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES PRIOR TO ROUGH-IN. REFER TO THE ARCHITECTURAL ELEVATIONS.

C. PROVIDE #10 AWG WIRING FOR ALL HOME RUNS IN EXCESS OF 80 FEET, (120V) UNLESS NOTED OTHERWISE.

D. PROVIDE GREY RECEPTACLES FOR EACH NORMAL POWER RECEPTACLE (INCLUDING GFI). NORMAL POWER RECEPTACLES ARE INDICATED BY "XX". CONNECT TO THE NORMAL POWER PANEL INDICATED (LP-#-#).

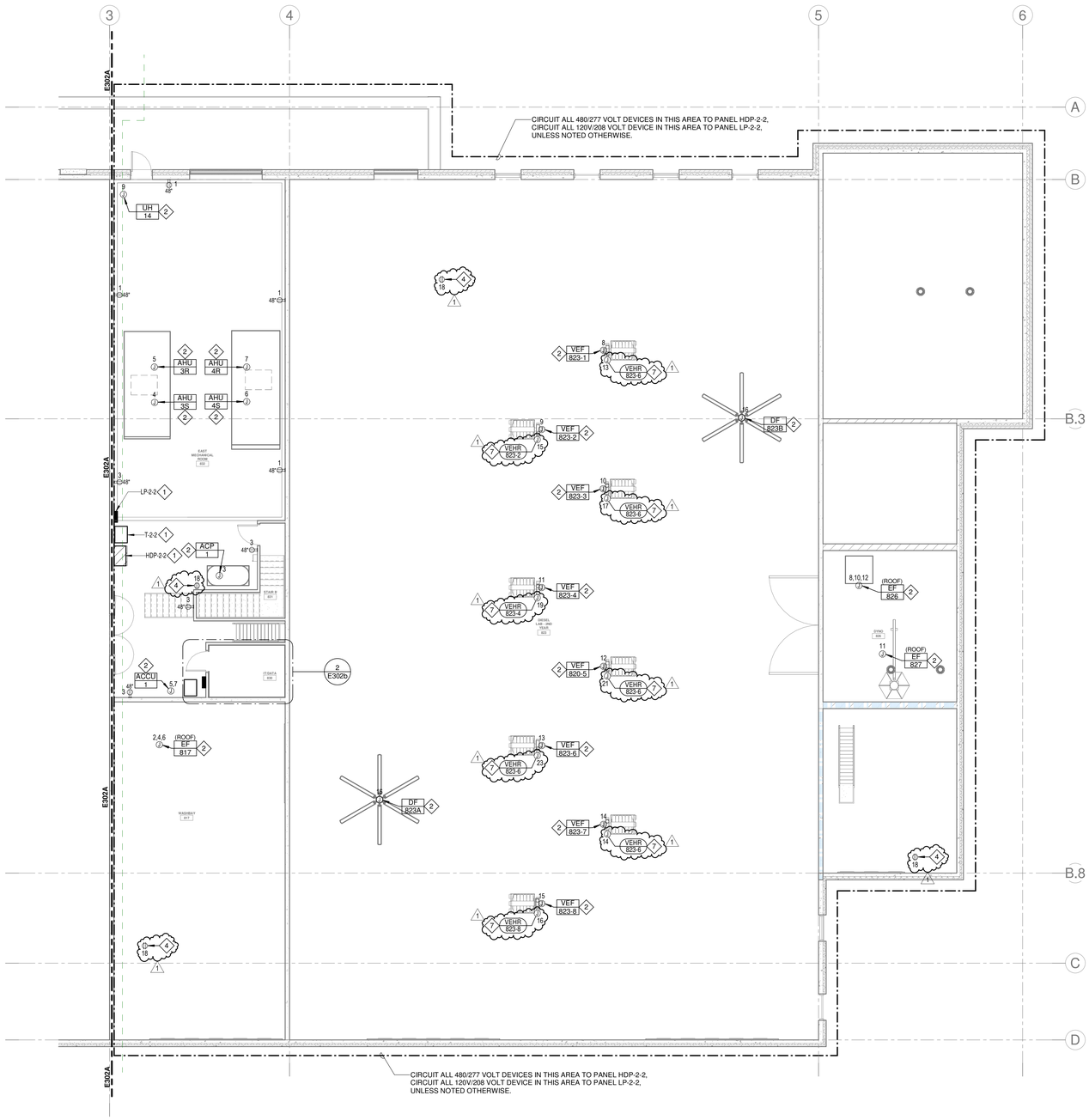
E. PROVIDE SEPARATE HOT, NEUTRAL AND GROUNDING CONDUCTORS FOR EACH TECHNOLOGY CIRCUIT. PROVIDE BLUE SURGE SUPRESSION TYPE RECEPTACLES FOR EACH TECHNOLOGY RECEPTACLE. TECHNOLOGY RECEPTACLES ARE INDICATE BY "SS". CONNECT TO THE BRANCH CIRCUIT INDICATED.

F. PROVIDE CONDUIT AND BACKBOX ROUGH-IN FOR ALL LOW VOLTAGE AND SECURITY DEVICES. REFER TO THE TECHNOLOGY SHEETS (T00 THRU T700) FOR ADDITIONAL INFORMATION.

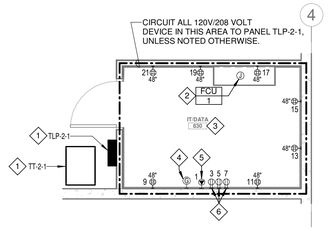
G. USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26 05 33.

KEYNOTES

1. PROVIDE ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO ONE-LINE DIAGRAM ON SHEET E500 FOR ADDITIONAL INFORMATION.
2. PROVIDE CONNECTION TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
3. COORDINATE ALL ROUGH-INS IN THIS ROOM WITH THE LOW VOLTAGE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. REFER TO THE TECHNOLGY PLANS (T00 THRU T700) FOR ADDITIONAL INFORMATION.
4. PROVIDE TELECOMMUNICATION GROUNDING BUS BAR AND GROUNDING CONDUCTOR. REFER TO GROUNDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.
5. PROVIDE 30A, 120V TWIST LOCK RECEPTACLE FOR UPS. CONNECT TO BRANCH CIRCUIT INDICATED.
6. PROVIDE DEDICATED 120V, 20A BRANCH CIRCUIT TO EACH DUPLEX RECEPTACLE FOR TELECOMMUNICATIONS RACK EQUIPMENT. CONNECT TO BRANCH CIRCUIT INDICATED.
7. PROVIDE CONNECTION TO BUILDING EQUIPMENT. REFER TO BUILDING EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.



1 LEVEL 2 - ELECTRICAL POWER PLAN - TC AREA B
1/8" = 1'-0"



2 ENLARGED IT/DATA ROOM
1/4" = 1'-0"

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701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER

KEYPLAN

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NO	DATE	REVISION
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Signature:

Typed or Printed Name: Ryan J. Lindahl

Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 2 POWER PLANS - TC AREA B

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E302b**

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GENERAL NOTES

A. ALL FIRE ALARM DEVICES SHOWN ARE NEW TO BE PROVIDED AND CONNECTED TO THE NEW FIRE ALARM CONTROL PANEL.

B. MOUNT ALL NEW FIRE ALARM DEVICES SHOWN ON EXISTING WALLS UTILIZING SURFACE RACEWAY AND BOXES. PAINT RACEWAY TO MATCH EXISTING SURFACES.

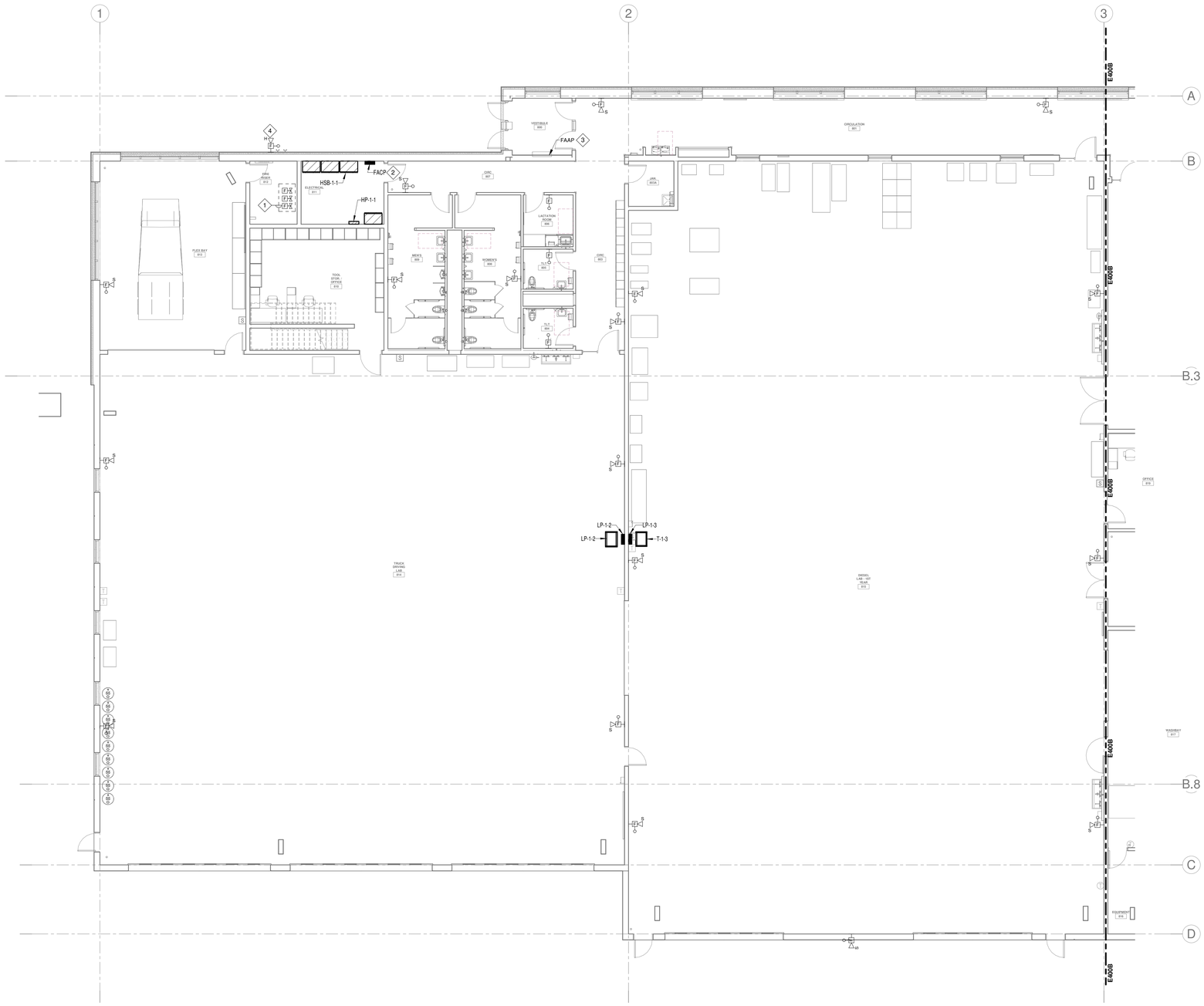
C. ALL NEW HORN/STROBES SHOWN IN EXISTING CLASSROOMS ARE SHOWN IN SCHEMATIC FORM, PROVIDE EXACT LOCATION AS RECOMMENDED BY MANUFACTURER ON SHOP DRAWING.

D. PROVIDE FIRE ALARM WIRING CONCEALED IN CONDUIT.

E. PROVIDE PLENUM RATED CABLE FOR FIRE ALARM SYSTEM. REFER TO SPECIFICATIONS FOR WIRING REQUIREMENTS.

KEYNOTES

1. PROVIDE ADDRESSABLE MONITOR MODULES FOR FIRE PROTECTION SYSTEM TAMPER AND FLOW SWITCHES. COORDINATE EXACT QUANTITY OF DEVICES WITH MECHANICAL DRAWINGS AND IN THE FIELD.
2. PROVIDE FIRE ALARM CONTROL AS INDICATED. PROVIDE 120VAC CONNECTION TO PANEL AS SHOWN ON POWER DRAWINGS/SCHEDULES.
3. PROVIDE FIRE ALARM ANNUNCIATOR PANEL AS INDICATED.
4. PROVIDE WEATHERPROOF EXTERIOR HORN STROBE AT FIRE DEPARTMENT CONNECTION.



1 LEVEL 1 - ELECTRICAL SAFETY AND SECURITY - TC AREA A
1/8" = 1'-0"

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CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
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ROOF CONSULTANT:
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Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
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Stillwater, MN 55082

ACOUSTICS CONSULTANT:
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1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER

KEYPLAN

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 1 SAFETY AND SECURITY PLAN - TC AREA A

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E400a**

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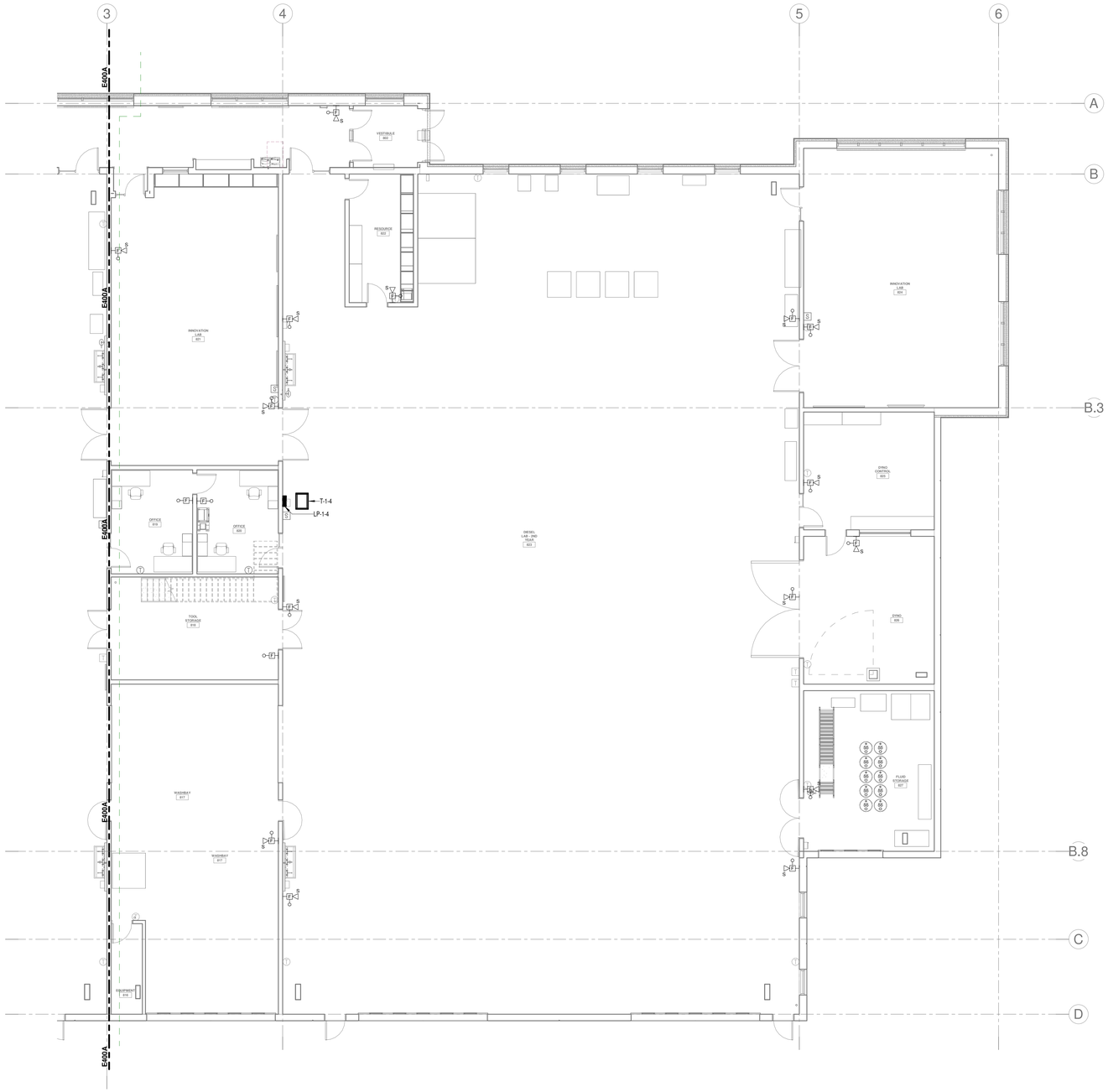

1 **LEVEL 1 - ELECTRICAL SAFETY AND SECURITY - TC AREA B**
1/8" = 1'-0"

GENERAL NOTES

A. ALL FIRE ALARM DEVICES SHOWN ARE NEW TO BE PROVIDED AND CONNECTED TO THE NEW FIRE ALARM CONTROL PANEL.

B. MOUNT ALL NEW FIRE ALARM DEVICES SHOWN ON EXISTING WALLS UTILIZING SURFACE RACEWAY AND BOXES. PAINT RACEWAY TO MATCH EXISTING SURFACES.

C. ALL NEW HORN/STROBES SHOWN IN EXISTING CLASSROOMS ARE SHOWN IN SCHEMATIC FORM, PROVIDE EXACT LOCATION AS RECOMMENDED BY MANUFACTURER ON SHOP DRAWING.

D. PROVIDE FIRE ALARM WIRING CONCEALED IN CONDUIT.

E. PROVIDE PLENUM RATED CABLE FOR FIRE ALARM SYSTEM. REFER TO SPECIFICATIONS FOR WIRING REQUIREMENTS.

KEYNOTES

1. NOT USED.

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CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

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TRANSPORTATION CENTER

KEYPLAN

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Alexandria, MN 56308

DRAWING TITLE:
LEVEL 1 SAFETY AND SECURITY PLAN - TC AREA B

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E400b**

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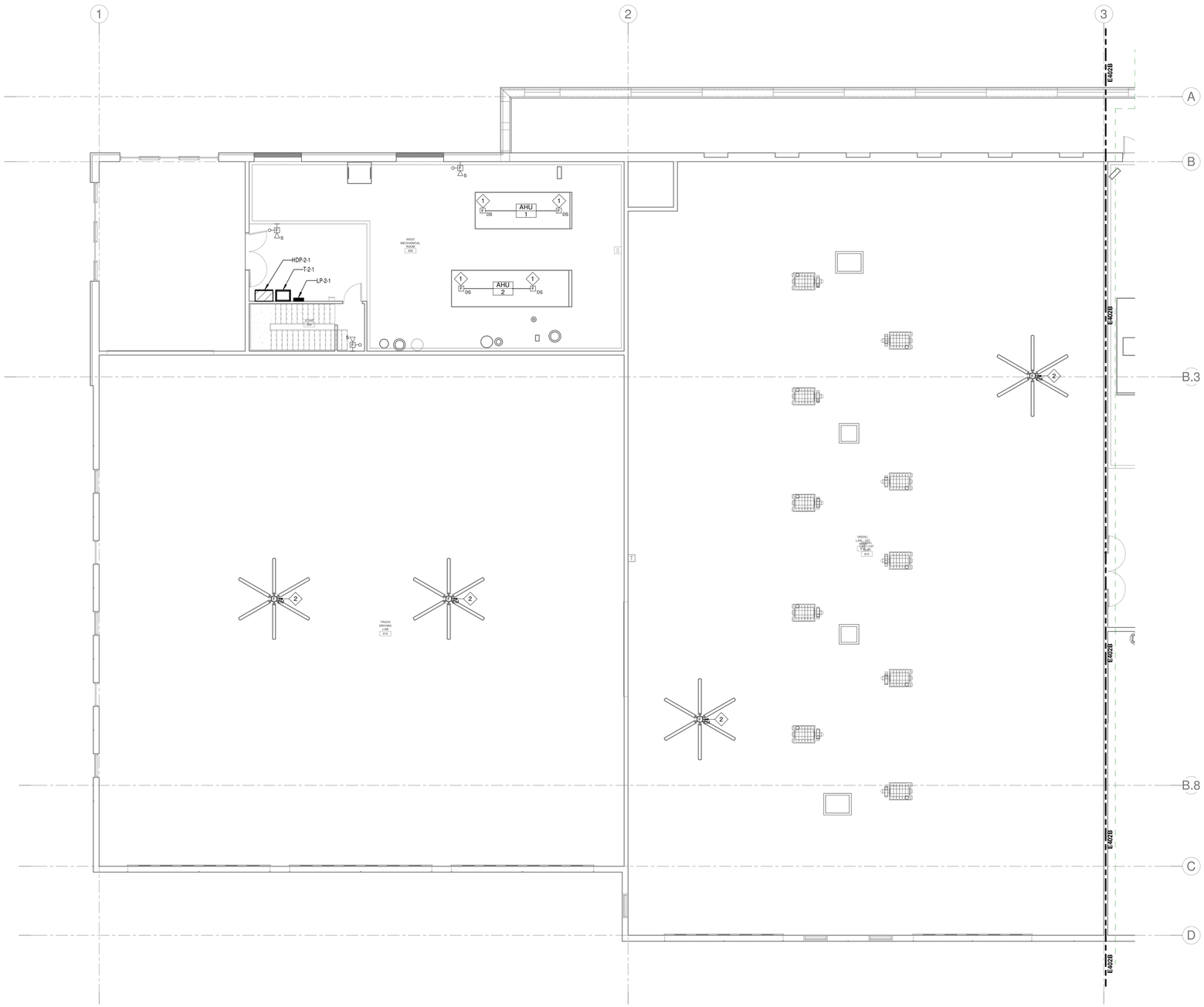

1 **LEVEL 2 - ELECTRICAL SAFETY AND SECURITY - TC AREA A**
1/8" = 1'-0"

GENERAL NOTES

A. ALL FIRE ALARM DEVICES SHOWN ARE NEW TO BE PROVIDED AND CONNECTED TO THE NEW FIRE ALARM CONTROL PANEL.

B. MOUNT ALL NEW FIRE ALARM DEVICES SHOWN ON EXISTING WALLS UTILIZING SURFACE RACEWAY AND BOXES. PAINT RACEWAY TO MATCH EXISTING SURFACES.

C. ALL NEW HORN/STROBES SHOWN IN EXISTING CLASSROOMS ARE SHOWN IN SCHEMATIC FORM, PROVIDE EXACT LOCATION AS RECOMMENDED BY MANUFACTURER ON SHOP DRAWING.

D. PROVIDE FIRE ALARM WIRING CONCEALED IN CONDUIT.

E. PROVIDE PLENUM RATED CABLE FOR FIRE ALARM SYSTEM. REFER TO SPECIFICATIONS FOR WIRING REQUIREMENTS.

KEYNOTES

1. PROVIDE DUCT SMOKE DETECTOR IN AIR HANDLING UNIT RETURN DUCTWORK. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. PROVIDE REMOTE TEST SWITCH IN ACCESSIBLE LOCATION AS COORDINATED IN THE FIELD WITH ENGINEER. ALSO, PROVIDE AN ADDRESSABLE CONTROL MODULE AT UNIT CONTROLLER/VFD FOR UNIT SHUTDOWN UPON SMOKE DETECTION. CONNECT AND PROGRAM COMPLETE.

2. DESTRAFICATION FAN: PROVIDE REMOTE TEST SWITCH IN ACCESSIBLE LOCATION AS COORDINATED IN THE FIELD WITH ENGINEER. ALSO, PROVIDE AN ADDRESSABLE CONTROL MODULE AT UNIT CONTROLLER FOR UNIT SHUTDOWN UPON SMOKE DETECTION. CONNECT AND PROGRAM COMPLETE.

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701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:
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TECHNOLOGY CONSULTANT:
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ACOUSTICS CONSULTANT:
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Mendota Heights, MN 55118

TRANSPORTATION CENTER

KEYPLAN

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 2 SAFETY AND SECURITY PLAN - TC AREA A

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E402a**

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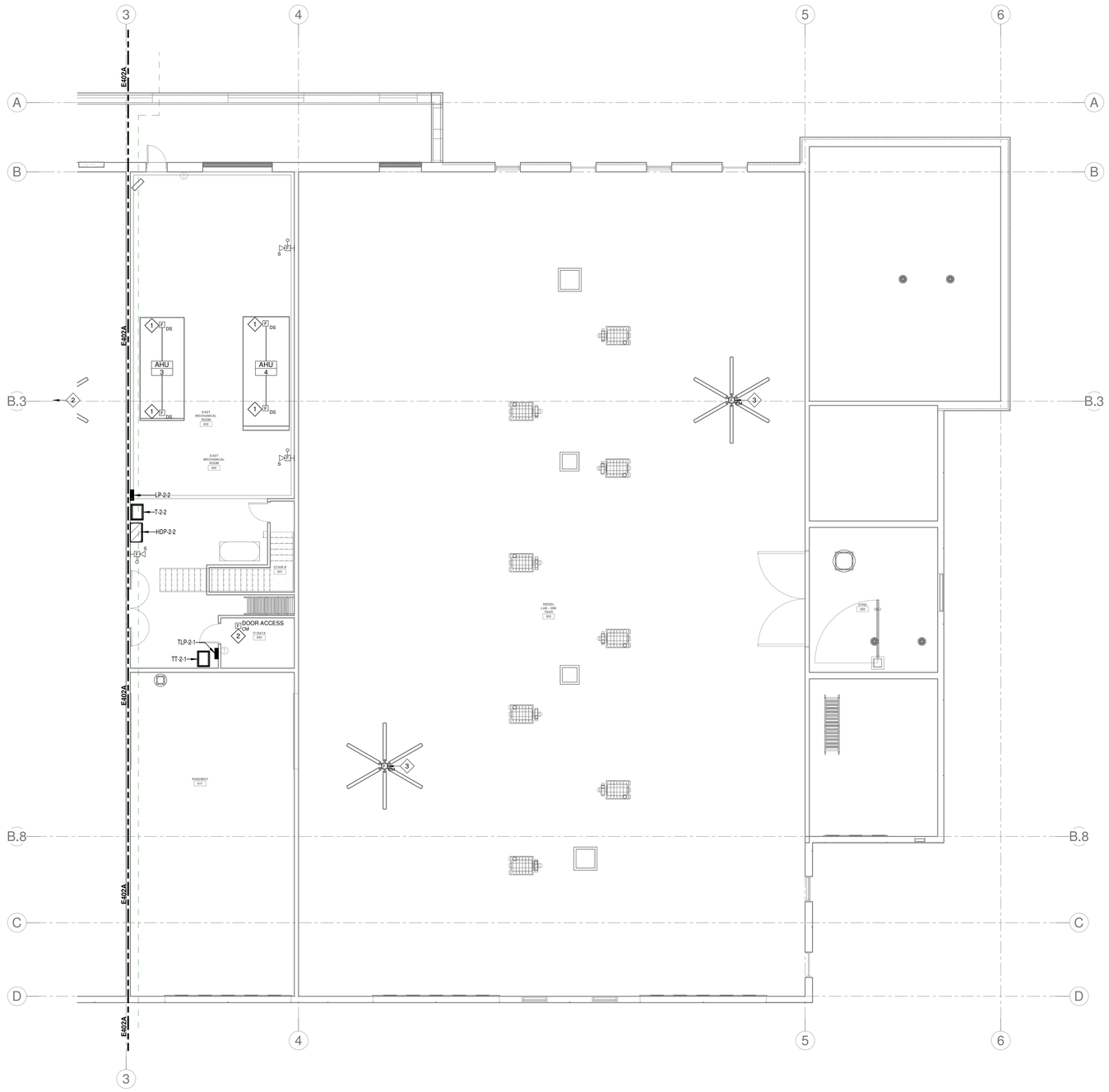

1 **LEVEL 2 - ELECTRICAL SAFETY AND SECURITY - TC AREA B**
1/8" = 1'-0"

GENERAL NOTES

A. ALL FIRE ALARM DEVICES SHOWN ARE NEW TO BE PROVIDED AND CONNECTED TO THE NEW FIRE ALARM CONTROL PANEL.

B. MOUNT ALL NEW FIRE ALARM DEVICES SHOWN ON EXISTING WALLS UTILIZING SURFACE RACEWAY AND BOXES. PAINT RACEWAY TO MATCH EXISTING SURFACES.

C. ALL NEW HORN/STROBES SHOWN IN EXISTING CLASSROOMS ARE SHOWN IN SCHEMATIC FORM. PROVIDE EXACT LOCATION AS RECOMMENDED BY MANUFACTURER ON SHOP DRAWING.

D. PROVIDE FIRE ALARM WIRING CONCEALED IN CONDUIT.

E. PROVIDE PLENUM RATED CABLE FOR FIRE ALARM SYSTEM. REFER TO SPECIFICATIONS FOR WIRING REQUIREMENTS.

KEYNOTES

1. PROVIDE DUCT SMOKE DETECTOR IN AIR HANDLING UNIT RETURN DUCTWORK. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. PROVIDE REMOTE TEST SWITCH IN ACCESSIBLE LOCATION AS COORDINATED IN THE FIELD WITH ENGINEER. ALSO, PROVIDE AN ADDRESSABLE CONTROL MODULE AT UNIT CONTROLLER/VFD FOR UNIT SHUTDOWN UPON SMOKE DETECTION. CONNECT AND PROGRAM COMPLETE.

2. PROVIDE ADDRESSABLE CONTROL MODULE FOR INTERFACE TO ACCESS CONTROLS SYSTEM. SEE ACCESS CONTROLS DRAWINGS FOR FURTHER INFORMATION. COORDINATE ALL PROGRAMMING WITH ACCESS CONTROLS VENDOR.

3. DESTRAFICATION FAN: PROVIDE REMOTE TEST SWITCH IN ACCESSIBLE LOCATION AS COORDINATED IN THE FIELD WITH ENGINEER. ALSO, PROVIDE AN ADDRESSABLE CONTROL MODULE AT UNIT CONTROLLER FOR UNIT SHUTDOWN UPON SMOKE DETECTION. CONNECT AND PROGRAM COMPLETE.

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TRANSPORTATION CENTER

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ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LEVEL 2 SAFETY AND SECURITY PLAN - TC AREA B

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E402b**

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SWITCHBOARD PANEL: HSB-1-1

LOCATION: ELECTRICAL 811
MOUNTING: SURFACE
MAINS TYPE: 1,000A MSB
BUS AMPS: 1,000A
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: 65,0000
ENCLOSURE: NEMA 1
SPECIAL:

SECTION No. 1

CKT	FRAME	POLES	TRIP	KVA	DESCRIPTION/NAMEPLATE	NOTES
1	200 A	3	125 A	71.2 kVA	T-1-2 / LP-1-2	1
2	200 A	3	200 A	84.5 kVA	T-1-3 / LP-1-3	1
3	200 A	3	200 A	99.6 kVA	T-1-4 / LP-1-4	1
4	200 A	3	200 A	76.5 kVA	HDP-2-1	1
5	200 A	3	200 A	96.1 kVA	HDP-2-2	1
6	60 A	3	60 A	19.2 kVA	ASHP-1	1
7	100 A	3	100 A	21.0 kVA	HP-1-1	1
8	30 A	1	30 A	5.1 kVA	SHI-1-1	1
9	200 A	3	200 A	0.0 kVA	SPARE	
10	200 A	3	125 A	0.0 kVA	SPARE	
11	--	3	--	--	SPACE	
12	--	3	--	--	SPACE	
13	--	3	--	--	SPACE	
14	--	3	--	--	SPACE	
15						
16						
17						
18						
19						
20						

PANEL TOTALS

CONN. LOAD:	473250 VA
EST. DEMAND LOAD:	449551 VA
CONN. CURRENT:	569 A
EST. DEMAND CURRENT:	541 A

NOTES:
1. PROVIDE BREAKER WITH LSI ELECTRONIC TRIP UNIT.

SWITCHBOARD NOTES:
A. PROVIDE SURGE PROTECTIVE DEVICE, ARC ENERGY REDUCTION DEVICE AND LSIG MAIN.
B. SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.

SWITCHBOARD PANEL: HDP-2-1

LOCATION: WEST MECHANICAL ROOM 828
MOUNTING: SURFACE
MAINS TYPE: 200A MLO
BUS AMPS: 200A
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: 65,000
ENCLOSURE: NEMA 1
SPECIAL:

SECTION No. 1

CKT	FRAME	POLES	TRIP	KVA	DESCRIPTION/NAMEPLATE	NOTES
1	30 A	3	30 A	10.8 kVA	T-2-1	
2	30 A	3	15 A	6.1 kVA	AHU-1S	
3	30 A	3	15 A	2.7 kVA	AHI-1R	
4	30 A	3	25 A	8.8 kVA	AHU-2S	
5	30 A	3	15 A	6.1 kVA	AHU-2R	
6	30 A	3	20 A	8.8 kVA	P-1	
7	30 A	3	20 A	8.8 kVA	P-2	
8	30 A	3	15 A	2.1 kVA	VEF-815-1	
9	30 A	3	15 A	2.1 kVA	VEF-815-2	
10	30 A	3	15 A	2.1 kVA	VEF-815-2	
11	30 A	3	15 A	2.1 kVA	VEF-815-4	
12	30 A	3	15 A	2.1 kVA	VEF-815-5	
13	30 A	3	15 A	2.1 kVA	VEF-815-6	
14	30 A	3	15 A	2.1 kVA	VEF-815-7	
15	30 A	3	15 A	2.1 kVA	VEF-815-8	
16	30 A	3	15 A	2.1 kVA	VEF-815-9	
17	30 A	3	15 A	2.1 kVA	VEF-815-10	
18	30 A	3	20 A	1.9 kVA	DF-814A & DF-814B	
19	30 A	3	20 A	1.9 kVA	DF-815A & DF-815B	
20						

PANEL TOTALS

CONN. LOAD:	76452 VA
EST. DEMAND LOAD:	76452 VA
CONN. CURRENT:	92 A
EST. DEMAND CURRENT:	92 A

NOTES:

SWITCHBOARD PANEL: HDP-2-2

LOCATION: EAST MECHANICAL ROOM 832
MOUNTING: SURFACE
MAINS TYPE: 200A MLO
BUS AMPS: 200A
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: 42,000
ENCLOSURE: NEMA 1
SPECIAL:

SECTION No. 1

CKT	FRAME	POLES	TRIP	KVA	DESCRIPTION/NAMEPLATE	NOTES
1	60 A	3	60 A	17.7 kVA	T-2-2	
2	30 A	3	30 A	9.0 kVA	TT-1-1	
3	60 A	3	35 A	11.2 kVA	ACP-1	
4	60 A	3	35 A	11.2 kVA	AHU-3S	
5	30 A	3	25 A	8.8 kVA	AHU-3R	
6	60 A	3	35 A	11.2 kVA	AHU-4S	
7	30 A	3	25 A	8.8 kVA	AHU-4R	
8	30 A	3	15 A	2.1 kVA	VEF-823-1	
9	30 A	3	15 A	2.1 kVA	VEF-823-2	
10	30 A	3	15 A	2.1 kVA	VEF-823-3	
11	30 A	3	15 A	2.1 kVA	VEF-823-4	
12	30 A	3	15 A	2.1 kVA	VEF-823-5	
13	30 A	3	15 A	2.1 kVA	VEF-823-6	
14	30 A	3	15 A	2.1 kVA	VEF-823-7	
15	30 A	3	15 A	2.1 kVA	VEF-823-8	
16	30 A	3	20 A	1.9 kVA	DF-823A & DF-823B	
17						
18						
19						
20						

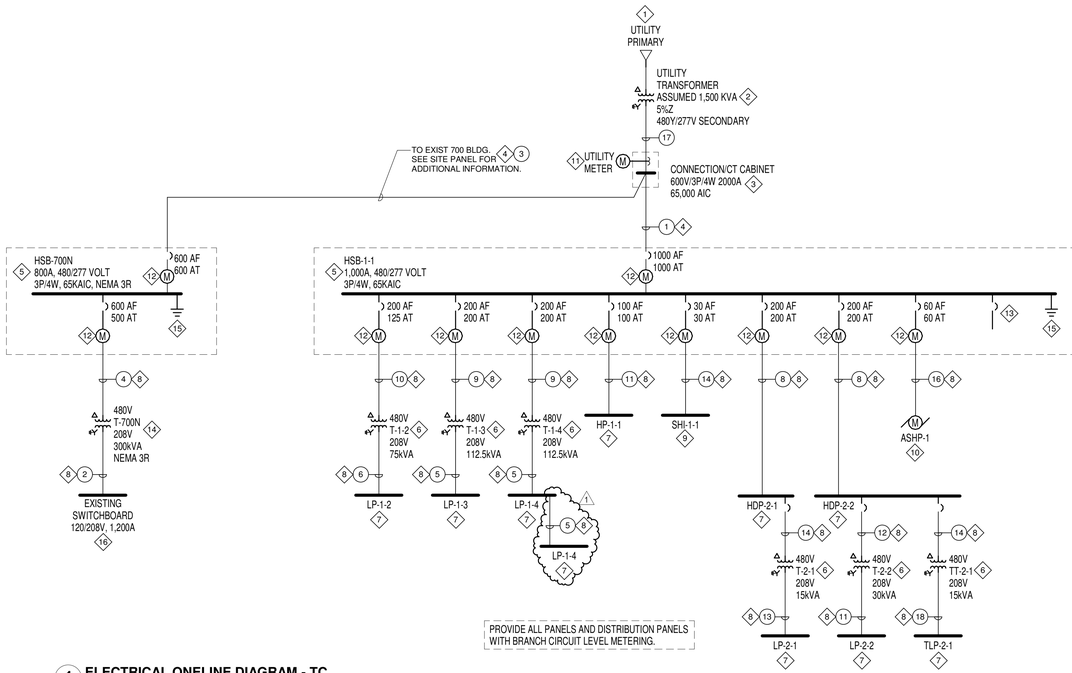
PANEL TOTALS

CONN. LOAD:	96136 VA
EST. DEMAND LOAD:	96136 VA
CONN. CURRENT:	116 A
EST. DEMAND CURRENT:	116 A

NOTES:

FEEDER SCHEDULE

NUMBER	DESCRIPTION
1	(4) 2.5"C - 4#250kCMIL (EACH)
2	(4) 3"C - 4#250kCMIL & 1#2/0 GND (EACH)
3	(2) 2.5"C - 4#350kCMIL (EACH)
4	(2) 2.5"C - 3#350kCMIL & 1#2 GND (EACH)
5	3.5"C - 4#600kCMIL & 1#3 GND
6	2.5"C - 4#250kCMIL & 1#4 GND
7	2.5"C - 4#250kCMIL & 1#4 GND
8	2"C - 4#3/0 & 1#6 GND
9	2"C - 3#3/0 & 1#6 GND
10	1.5"C - 3#1 & 1#6 GND
11	1.25"C - 4#3 & 1#8 GND
12	1"C - 3#6 & 1#10 GND
13	1"C - 4#6 & 1#10 GND
14	3/4"C - 3#10 & 1#10 GND
15	3/4"C - 2#10 & 1#10 GND
16	1"C - 3#6 & 1#10 GND
17	(5) 4"C - 5#600kCMIL (EACH)
18	1.25"C - 3#6, 2#6 NEAUTRALS & 1#10 GND



1 ELECTRICAL ONELINE DIAGRAM - TC
12" = 1'-0"

PANELBOARD: HP-1-1

LOCATION: ELECTRICAL 811
MOUNTING: SURFACE
MAINS TYPE: 100A MLO
BUS AMPS: 100 AMPS
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
ENCLOSURE: NEMA1
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
PARKING LOT LIGHTING	20 A	1	1	0.4	1.7					2	1	20 A	LIGHTING INOVATION LAB/OFFICES
EXTERIOR LIGHTING - NORTH, EAST,...	20 A	1	3			0.9	1.2			4	1	20 A	LIGHTING INOVATION LAB/DYNO/STORAGE
EXTERIOR LIGHTING - SOUTH	20 A	1	5					0.5	2.9	6	1	20 A	LIGHTING - DIESEL LAB - 2ND YEAR
LIGHTING - TRUC DRIVING LAB	20 A	1	7	1.7	1.7					8	1	20 A	LIGHTING - DIESEL LAB - 2ND YEAR
LIGHTING - TRUC DRIVING LAB	20 A	1	9			1.7	0.0			10	1	20 A	SPARE
LIGHTING - FLEX BAY/OFFICE/ELEC	20 A	1	11					1.1	0.0	12	1	20 A	SPARE
LIGHTING - TOILETS/HALLWAY	20 A	1	13	1.7	0.0					14	1	20 A	SPARE
LIGHTING - DIESEL LAB - 1ST YEAR	20 A	1	15			2.7	0.0			16	1	20 A	SPARE
LIGHTING - DIESEL LAB - 1ST YEAR	20 A	1	17					2.7	0.0	18	1	20 A	SPARE
SPARE	20 A	1	19	0.0	0.0					20	1	20 A	SPARE
SPARE	20 A	1	21			0.0	0.0			22	1	20 A	SPARE
SPARE	20 A	1	23					0.0	0.0	24	1	20 A	SPARE
SPARE	20 A	1	25	0.0	0.0					26	1	20 A	SPARE
SPACE	--	1	27			--	--			28	1	--	SPACE
SPACE	--	1	29					--	--	30	1	--	SPACE
SPACE	--	1	31	--	--					32	1	--	SPACE
SPACE	--	1	33			--	--			34	1	--	SPACE
SPACE	--	1	35					--	--	36	1	--	SPACE
SPACE	--	1	37	--	--					38	1	--	SPACE
SPACE	--	1	39			--	--			40	1	--	SPACE
SPACE	--	1	41					--	--	42	1	--	SPACE
			TOTAL LOAD:	7 kVA		7 kVA		7 kVA					
			TOTAL AMPS:	26 A		24 A		26 A					

PANEL TOTALS

CONNECTED LOAD:	21023 VA
ESTIMATED DEMAND:	25820 VA
CONNECTED CURRENT:	25 A
EST. DEMAND CURRENT:	31 A

NOTES:
PROVIDE SEPERATE BRANCH CIRCUIT LEVEL MONITORING FOR CIRCUITS 1, 3 AND 5.

LIGHTING INVERTER PANEL: SHI-1-1

LOCATION: ELECTRICAL 811
MOUNTING: SURFACE
MAINS TYPE:
BUS AMPS:
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING:
ENCLOSURE:
SPECIAL:

SECTION No. 1

CKT	FRAME	POLES	TRIP	KVA	DESCRIPTION/NAMEPLATE	NOTES
1	400 A	1	20 A	1.2 kVA	LIGHTING	
2	400 A	1	20 A	2.0 kVA	LIGHTING	
3	400 A	1	20 A	1.6 kVA	LIGHTING	
4	400 A	1	20 A	0.3 kVA	LIGHTING	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

PANEL TOTALS

CONN. LOAD:	5143 VA
EST. DEMAND LOAD:	6311 VA
CONN. CURRENT:	6 A
EST. DEMAND CURRENT:	8 A

NOTES:

ONE-LINE DIAGRAM KEYNOTES

1. PRIMARY ELECTRIC SERVICE PROVIDED BY THE LOCAL ELECTRICAL UTILITY, ALEXANDRIA LIGHT AND POWER (ALP).
2. UTILITY TRANSFORMER PROVIDED BY ALP.
3. PROVIDE CONNECTION/METER CABINET. REFER TO SPECIFICATION SECTION 26.2713 FOR ADDITIONAL INFORMATION.
4. PROVIDE SECONDARY ELECTRICAL SERVICE.
5. PROVIDE SWITCHBOARD. REFER TO SWITCHBOARD SCHEDULE AND SPECIFICATION SECTION 26.2413 FOR ADDITIONAL INFORMATION.
6. PROVIDE DRY TYPE TRANSFORMER. REFER TO TRANSFORMER SCHEDULE AND SPECIFICATION SECTION 26.2213 FOR ADDITIONAL INFORMATION. PROVIDE TRANFORMER GROUND AS PER THE NEC.
7. PROVIDE DISTRIBUTION PANELBOARD OR BRANCH PANELBOARD. REFER TO PANEL SCHEDULES AND SPECIFICATION SECTION 26.2416 FOR ADDITIONAL INFORMATION.
8. PROVIDE FEEDER. REFER TO FEEDER SCHEDULE AND SPECIFICATION SECTIONS 26.0519 AND 26.0533 FOR ADDITIONAL INFORMATION.
9. PROVIDE CENTRAL BATTERY LIGHTING INVERTER. REFER TO INVERTER SCHEDULE AND SPECIFICATION SECTION 26.3355 FOR ADDITIONAL INFORMATION.
10. PROVIDE CONNECTION TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
11. UTILITY METER FURNISHED BY THE LOCAL UTILITY COMPANY AND INSTALLED BY DIVISION 26 CONTRACTOR.
12. PROVIDE METER. REFER TO SPECIFICATION SECTION 26.2413 FOR ADDITIONAL INFORMATION.
13. PROVIDE ADDITION SPARE CIRCUIT BREAKERS AS PER SWITCHBOARD SCHEDULE.
14. PROVIDE EXTERIOR NEMA 3R DRY TYPE TRANSFORMER. REFER TO TRANSFORMER SCHEDULE AND SPECIFICATION SECTION 26.2213 FOR ADDITIONAL INFORMATION. PROVIDE TRANFORMER GROUND AS PER THE NEC.
15. BOND NEUTRAL AND GROUND AS PER THE NEC.
16. EXISTING SWITCHBOARD LOCATED IN THE 700 NORTH BUILDING. REFER TO SITE PLAN FOR ADDITIONAL INFORMATION.

TRANSFORMER SCHEDULE

NAME	LOCATION	SIZE	PRIMARY	PRIMARY OVERCURRENT DEVICES		SECONDARY	K-RATING	MNTG	NOTES
				LOCATION	SIZE				
T-1-2	TRUCK DRIVING LAB 814	75KVA	480V/3P/3W	HSB-1-1	125A/3P	120/208V/3P/4W		TRAPEZE	1
T-1-3	DIESEL LAB 1ST YEAR 815	112.5KVA	480V/3P/3W	HSB-1-1	200A/3P	120/208V/3P/4W		TRAPEZE	1
T-1-4	DIESEL LAB 2ND YEAR 823	112.5KVA	480V/3P/3W	HSB-1-1	200A/3P	120/208V/3P/4W		TRAPEZE	1
T-2-1	WEST MECHANICAL ROOM 828	15KVA	480V/3P/3W	HDP-2-1	30A/3P	120/208V/3P/4W		FLOOR	2
T-2-2	EAST MECHANICAL ROOM 832	30KVA	480V/3P/3W	HDP-2-2	60A/3P	120/208V/3P/4W		FLOOR	2
TT-2-1	EAST MECHANICAL ROOM 832	15KVA	480V/3P/3W	HDP-2-2	30A/3P	120/208V/3P/4W	K13	FLOOR	2
T-700N	OUTSIDE 700 NORTH BUILDING	300KVA	480V/3P/3W	HSB-700N	500A/3P	120/208V/3P/4W		PAD	3

NOTES:
1. MOUNT TRANSFORMER FROM THE STRUCTURE. PROVIDE ALL MOUNTING HARDWARE REQUIRED. COORDINATE WITH THE STRUCTURAL ENGINEER.
2. FLOOR MOUNT THE TRANSORMER. PROVIDE 4" HOUSEKEEPING CONCRETE PAD.
3. INSTALL TRANSFORMER ON EXISTING UTILITY TRANSFORMER CONCRETE PAD.

LHB
701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

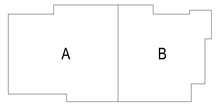
ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Typed or Printed Name: Ryan J. Lindahl
Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E500**

Autodesk Docs://23ITC36 ATCC Student Services & Transportation Center/E24_ATCC Student Services & Transportation Center_Central.rvt
3/18/2026 2:41:17 PM

PANELBOARD: LP-1-2

LOCATION: TRUCK DRIVING LAB 814
MOUNTING: SURFACE
MAINS TYPE: 225A MCP
BUS AMPS: 225 AMPS

VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: 22,000 AMPS SYMMETRICAL
ENCLOSURE: NEMA1
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
RECEPTACLE - FLEX BAY	20 A	1	1	1.3	4.3					2	2	20 A	EV CHARGER - TRUCK DRIVING LAB
RECEPTACLE - TOOL/OFFICE	20 A	1	3			0.7	4.3			4			
RECEPTACLE - TOOL/OFFICE	20 A	1	5					0.7	4.3	6	2	20 A	WELDER - TRUCK DRIVING LAB
RECEPTACLE - TOOL/OFFICE	20 A	1	7	0.7	4.3					8			
RECEPTACLE - TOOL/OFFICE	20 A	1	9			0.9	4.3			10	2	20 A	EV CHARGER - TRUCK DRIVING LAB
RECEPTACLE - TOILETS	20 A	1	11					0.7	4.3	12			
RECEPTACLE - HALL/ELEC/FIRE	20 A	1	13	1.3	1.5					14	1	20 A	EHD-1
RECEPTACLE - TRUCK DRIVING LAB	20 A	1	15			1.1	1.5			16	1	20 A	EHD-2
RECEPTACLE - @ OVER HEAD DOORS	20 A	1	17					0.7	1.1	18	1	20 A	OHD-1
RECEPTACLE - @ OVER HEAD DOORS	20 A	1	19	0.7	1.1					20	1	20 A	OHD-2
RECEPTACLE - TRUCK DRIVING LAB	20 A	1	21			1.1	1.1			22	1	20 A	OHD-3
RECEPTACLE - TRUCK DRIVING LAB	20 A	1	23					0.5	1.1	24	1	20 A	OHD-4
RECEPTACLE - TRUCK DRIVING LAB	20 A	1	25	0.9	1.1					26	1	20 A	OHD-5
CORD REELS - TRUCK DRIVING LAB	20 A	1	27			0.7	0.4			28	1	20 A	UH-1
CORD REELS - TRUCK DRIVING LAB	20 A	1	29					0.7	0.4	30	1	20 A	UH-2
CEILING PROJECTOR - TRUCK DRIVING...	20 A	1	31	0.4	0.4					32	1	20 A	UH-3
EV CHARGER - TRUCK DRIVING LAB	50 A	2	33			4.3	0.4			34	1	20 A	UH-4
			35					4.3	0.5	36	1	20 A	EBBH-1
EV CHARGER - TRUCK DRIVING LAB	20 A	2	37	4.3	0.5					38	1	20 A	FIRE ALARM CONTROL PANEL
			39			4.3	0.8			40	1	20 A	P-3
SPARE	20 A	1	41					0.0	0.4	42	1	20 A	AC-1
SPARE	20 A	1	43	0.0	1.0					44	1	20 A	WINDOW SHADES
SPARE	20 A	1	45			0.0	1.6			46	1	20 A	WINDOW SHADES
SPARE	20 A	1	47					0.0	0.8	48	1	20 A	WINDOW SHADES
SPARE	20 A	1	49	0.0	--					50	1	--	SPACE
SPARE	20 A	1	51			0.0	--			52	1	--	SPACE
SPARE	20 A	1	53					0.0	--	54	1	--	SPACE
SPACE	--	1	55	--	--					56	1	--	SPACE
SPACE	--	1	57			--	--			58	1	--	SPACE
SPACE	--	1	59					--	--	60	1	--	SPACE
SPACE	--	1	61	--	--					62	1	--	SPACE
SPACE	--	1	63			--	--			64	1	--	SPACE
SPACE	--	1	65					--	--	66	1	--	SPACE
SPACE	--	1	67	--	--					68	1	--	SPACE
SPACE	--	1	69			--	--			70	1	--	SPACE
SPACE	--	1	71					--	--	72	1	--	SPACE
SPACE	--	1	73	--	--					74	1	--	SPACE
SPACE	--	1	75			--	--			76	1	--	SPACE
SPACE	--	1	77					--	--	78	1	--	SPACE
SPACE	--	1	79	--	--					80	1	--	SPACE
SPACE	--	1	81			--	--			82	1	--	SPACE
SPACE	--	1	83					--	--	84	1	--	SPACE
			TOTAL LOAD:	24 kVA		27 kVA		20 kVA					
			TOTAL AMPS:	200 A		231 A		170 A					

PANEL TOTALS

CONNECTED LOAD: 71203 VA
ESTIMATED DEMAND: 71203 VA
CONNECTED CURRENT: 198 A
EST. DEMAND CURRENT: 198 A

NOTES:

PANELBOARD: LP-1-3

LOCATION: DIESEL LAB 1ST YEAR 815
MOUNTING: SURFACE
MAINS TYPE: 400A MCB
BUS AMPS: 400 AMPS

VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: 22,000 AMPS SYMMETRICAL
ENCLOSURE: NEMA 1
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
RECEPTACLE -...	20 A	1	1	0.9	2.8					2			
ELECTRIC WATER COOLER	20 A	1	3			0.7	2.8			4	3	60 A	WELDER
RECEPTACLE - TECH - HALL/JAN./D.L....	20 A	1	5					0.5	2.8	6			
RECEPTACLE - D.L. 1ST YEAR	20 A	1	7	1.1	2.8					8			
RECEPTACLE - @ OHD	20 A	1	9			0.4	2.8			10	3	60 A	WELDER
RECEPTACLE - @ OHD	20 A	1	11					0.4	2.8	12			
RECEPTACLE - D.L. 1ST YEAR	20 A	1	13	0.9	4.0					14	2	50 A	WELDER
RECEPTACLE - D.L. 1ST YEAR	20 A	1	15			0.9	4.0			16			
RECEPTACLE - D.L. 1ST YEAR	20 A	1	17					0.7	4.0	18	2	50 A	WELDER
RECEPTACLE - ALTERNATOR TRAINER	20 A	1	19	0.2	4.0					20			
RECEPTACLE - STARTER TRAINER	20 A	1	21			0.2	1.7			22	2	20 A	SAND BLASTER
RECEPTACLE - STARTER TRAINER	20 A	1	23					0.2	1.7	24			
RECEPTACLE - HYDROLIC TRAINER	20 A	1	25	0.2	1.7					26	2	20 A	HYDROLIC PRESS
RECEPTACLE - HYDROLIC TRAINER	20 A	1	27			0.2	1.7			28			
RECEPTACLE - FUEL TRAINER	20 A	1	29					0.2	0.6	30	2	20 A	DRILL PRESS
RECEPTACLE - LIGHT TRAINER	20 A	1	31	0.2	0.6					32			
RECEPTACLE - BATTERY CART	20 A	1	33			0.2	4.0			34	2	50 A	WELDER
RECEPTACLE - POLISHING LATHE	20 A	1	35					1.6	4.0	36			
RECEPTACLE - GRINDER/POLISHER	20 A	1	37	0.7	4.0					38	2	50 A	WELDER
RECEPTACLE - CHOP SAW	20 A	1	39			0.8	4.0			40			
RECEPTACLE - PARTS WASHER	20 A	1	41					0.2	4.0	42	2	50 A	WELDER
RECEPTACLE - HOSE CRIMPER	20 A	1	43	0.2	4.0					44			
RECEPTACLE - PARTS WASHER	20 A	1	45			0.2	0.8			46	2	20 A	VEHICAL LIFT
RECEPTACLE - D.L. 1ST YEAR -...	20 A	1	47					0.4	0.8	48			
UH-5	20 A	1	49	0.4	0.0					50	1	20 A	SPARE
UH-6	20 A	1	51			0.4	0.0			52	1	20 A	SPARE
UH-7	20 A	1	53					0.4	0.0	54	1	20 A	SPARE
OHD-5	20 A	1	55	1.1	0.0					56	1	20 A	SPARE
OHD-6	20 A	1	57			1.2	0.0			58	1	20 A	SPARE
PADO-1A	20 A	1	59					0.8	0.0	60	1	20 A	SPARE
PADO-1B	20 A	1	61	0.8	0.0					62	1	20 A	SPARE
CUH-1	20 A	1	63			0.4				64	1	--	SPACE
AC-2	20 A	1	65					0.4	--	66	1	--	SPACE
WINDOW SHADES	20 A	1	67	0.6	--					68	1	--	SPACE
SPACE	--	1	69			--	--			70	1	--	SPACE
SPACE	--	1	71					--	--	72	1	--	SPACE
SPACE	--	1	73	--	--					74	1	--	SPACE
SPACE	--	1	75			--	--			76	1	--	SPACE
SPACE	--	1	77					--	--	78	1	--	SPACE
SPACE	--	1	79	--	--					80	1	--	SPACE
SPACE	--	1	81			--	--			82	1	--	SPACE
SPACE	--	1	83					--	--	84	1	--	SPACE
			TOTAL LOAD:	31 kVA		27 kVA		26 kVA					
			TOTAL AMPS:	260 A		228 A		219 A					

PANEL TOTALS

CONNECTED LOAD: 84504 VA
ESTIMATED DEMAND: 84504 VA
CONNECTED CURRENT: 235 A
EST. DEMAND CURRENT: 235 A

NOTES:

PANELBOARD: LP-1-4

LOCATION: DIESEL LAB 2ND YEAR 823
MOUNTING: SURFACE
MAINS TYPE: 400A MCB
BUS AMPS: 400 AMPS

VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: 22,000 AMPS SYMMETRICAL
ENCLOSURE: NEMA1
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
RECEPTACLE - PARKING LOT TRUCK...	20 A	1	1	0.2	1.1					2	1	20 A	RECEPTACLE - FLUID STORAGE
RECEPTACLE - PARKING LOT TRUCK...	20 A	1	3			0.2	2.3			4	1	20 A	RECEPTACLE - D.L. 2ND YEAR
RECEPTACLE - PARKING LOT TRUCK...	20 A	1	5					0.2	2.5	6	1	20 A	RECEPTACLE - D.L. 2ND YEAR
RECEPTACLE - PARKING LOT TRUCK...	20 A	1	7	0.2	2.5					8	1	20 A	RECEPTACLE - D.L. 2ND YEAR
RECEPTACLE - VESTIBULE/HALL	20 A	1	9			1.1	2.3			10	1	20 A	RECEPTACLE - D.L. 2ND YEAR
RECEPTACLE - INNOVATION LAB	20 A	1	11					0.5	0.7	12	1	20 A	RECEPTACLE - D.L. 2ND YEAR - TECH
RECEPTACLE - INNOVATION LAB	20 A	1	13	1.1	0.9					14	1	20 A	RECEPTACLE - D.L. 2ND YEAR - TECH
RECEPTACLE - INNOVATION LAB	20 A	1	15			0.7	4.0			16	2	50 A	WELDER
RECEPTACLE - INNOVATION LAB	20 A	1	17					1.1	4.0	18			
RECEPTACLE - INNOVATION LAB	20 A	1	19	0.7	4.3					20	2	60 A	WELDER
FLOOR BOXES - INNOVATION LAB	20 A	1	21			0.7	4.3			22			
FLOOR BOXES - INNOVATION LAB	20 A	1	23					0.7	4.0	24	2	50 A	WELDER
FLOOR BOXES - INNOVATION LAB	20 A	1	25	0.7	4.0					26			
FLOOR BOXES - INNOVATION LAB	20 A	1	27			0.7	4.3			28	2	60 A	WELDER
RECEPTACLE - INNOVATION LAB	20 A	1	29					0.5	4.3	30			
RECEPTACLE - OFFICES	20 A	1	31	1.1	0.8					32	1	20 A	GRINDER
RECEPTACLE - OFFICES	20 A	1	33			0.7	0.2			34	1	20 A	GRINDER
RECEPTACLE - PRINTER - OFFICE	20 A	1	35					0.4	0.5	36	1	20 A	PARTS WASHER
RECEPTACLE - PRINTER - OFFICE	20 A	1	37	0.4	1.1					38	1	20 A	OHD-8
RECEPTACLE - OFFICES	20 A	1	39			0.7	1.1			40	1	20 A	OHD-9
RECEPTACLE - TOOL STORAGE	20 A	1	41					1.1	1.1	42	1	20 A	OHD-10
RECEPTACLE - TOOL STORAGE	20 A	1	43	1.1	1.1					44	1	20 A	OHD-11
RECEPTACLE - WASH BAY	20 A	1	45			0.9	1.1			46	1	20 A	OHD-12
RECEPTACLE - EQUIPMENT	20 A	1	47					1.1	1.1	48	1	20 A	OHD-13
RECEPTACLE - EXTERIOR SOUTH	20 A	1	49	1.1	0.4					50	1	20 A	UH-8
RECEPTACLE - EXTERIOR SOUTH	20 A	1	51			1.1	0.4			52	1	20 A	UH-9
RECEPTACLE - RESOURCE	20 A	1	53					0.7	0.4	54	1	20 A	UH-10
RECEPTACLE - RESOURCE	20 A	1	55	0.5	0.4					56	1	20 A	UH-11
RECEPTACLE - INNOVATION LAB	20 A	1	57			1.4	0.4			58	1	20 A	UH-12
RECEPTACLE - INNOVATION LAB	20 A	1	59					1.6	0.4	60	1	20 A	UH-13
RECEPTACLE - INNOVATION LAB	20 A	1	61	0.7	0.5					62	1	20 A	CUH-2
RECEPTACLE - INNOVATION LAB	20 A	1	63			0.7	0.8			64	1	20 A	PADO-2A
FLOOR BOXES - INNOVATION LAB	20 A	1	65					0.7	0.8	66	1	20 A	PADO-2B
FLOOR BOXES - INNOVATION LAB	20 A	1	67	0.7	0.4					68	1	20 A	ELECTRIC WATER COOLER
FLOOR BOXES - INNOVATION LAB	20 A	1	69			0.7	1.5			70	2	20 A	POWER WASHER
FLOOR BOXES - INNOVATION LAB	20 A	1	71					0.7	1.5	72			
RECEPTACLE - DYNO CONTROL	20 A	1	73	0.7	0.8					74	1	20 A	P-4
RECEPTACLE - DYNO CONTROL	20 A	1	75			0.7	0.0			76	1	20 A	SPARE
RECEPTACLE - DYNO CONTROL	20 A	1	77					1.4	0.0	78	1	20 A	SPARE
RECEPTACLE - DYNO	20 A	1	79	1.3	0.0					80	1	20 A	SPARE
RECEPTACLE - DYNO	20 A	1	81			1.1	0.0			82	1	20 A	SPARE
RECEPTACLE - DYNO	20 A	1	83					0.4	0.0	84	1	20 A	SPARE
			TOTAL LOAD:	31 kVA		36 kVA		33 kVA					
			TOTAL AMPS:	259 A		298 A		278 A					

PANEL TOTALS

CONNECTED LOAD: 99590 VA
ESTIMATED DEMAND: 87640 VA
CONNECTED CURRENT: 276 A
EST. DEMAND CURRENT: 243 A

NOTES:
A. PROVIDE PANEL WITH FEED THRU LUGS TO FEED PANEL LP-1-4A. 1

PANELBOARD: LP-2-1

LOCATION: WEST MECHANICAL ROOM 828
MOUNTING: SURFACE
MAINS TYPE: 50A MCB
BUS AMPS: 100 AMPS

VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
ENCLOSURE: NEMA1
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
RECEPTACLE	20 A	1	1	1.3	0.6					2	1	20 A	VEHR-815-1
UH-15	20 A	1	3			0.4	0.6			4	1	20 A	VEHR-815-2
GMP-1	20 A	1	5					0.2	0.6	6	1	20 A	VEHR-815-3
CP-1	20 A	1	7	0.1	0.6					8	1	20 A	VEHR-815-4
WS-1	20 A	1	9			0.2	0.6			10	1	20 A	VEHR-815-5
ERV-1	20 A	2	11					0.8	0.6	12	1	20 A	VEHR-815-6
			13	0.8	0.6					14	1	20 A	VEHR-815-7
SPARE	20 A	1	15			0.0	0.6			16	1	20 A	VEHR-815-8
SPARE	20 A	1	17					0.0	0.6	18	1	20 A	VEHR-815-9
SPARE	20 A	1	19	0.0	0.6					20	1	20 A	VEHR-815-10
SPARE	20 A	1	21			0.0	0.7			22	1	20 A	RECT. (FUTURE RADON MITIGATION)
SPARE	20 A	1	23					0.0		24	1	--	SPACE
			TOTAL LOAD:	5 kVA		3 kVA		3 kVA					
			TOTAL AMPS:	40 A		27 A		24 A					

PANEL TOTALS

CONNECTED LOAD: 10782 VA
ESTIMATED DEMAND: 10782 VA
CONNECTED CURRENT: 30 A
EST. DEMAND CURRENT: 30 A

NOTES:

PANELBOARD: LP-2-2

LOCATION: EAST MECHANICAL ROOM 832
MOUNTING: SURFACE
MAINS TYPE: 100A MCB
BUS AMPS: 100 AMPS

VOLTAGE: 208Y/120 V. 3 ø 4 W.
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
ENCLOSURE: NEMA1
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
RECEPTACLE	20 A	1	1	0.7	0.1					2			
RECEPTACLE	20 A	1	3			0.7	0.1			4	3	20 A	EF-817
ACCU-1	40 A	2	5					2.9	0.1	6			
			7	2.9	1.3					8			
UH-14	20 A	1	9			0.4	1.3			10	3	20 A	EF-826
EF-827	20 A	1	11					0.1	1.3	12			
VEHR-823-1	20 A	1	13	0.6	0.6					14	1	20 A	VEHR-823-7
VEHR-823-2	20 A	1	15			0.6	0.6			16	1	20 A	VEHR-823-8
VEHR-823-3	20 A	1	17					0.6	0.7	18	1	20 A	RECP. (FUTURE RADON MITIGATION)
VEHR-823-4	20 A	1	19	0.6	0.0					20	1	20 A	SPARE
VEHR-823-5	20 A	1	21			0.6	0.0			22	1	20 A	SPARE
VEHR-823-6	20 A	1	23					0.6	0.0	24	1	20 A	SPARE
			TOTAL LOAD:	7 kVA		4 kVA		6 kVA					
			TOTAL AMPS:	60 A		37 A		56 A					

PANEL TOTALS

CONNECTED LOAD: 17702 VA
ESTIMATED DEMAND: 17702 VA
CONNECTED CURRENT: 49 A
EST. DEMAND CURRENT: 49 A

NOTES:

LHB
701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

ELECTRICAL CONSULTANT:
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5051 Miller Trunk Highway
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER

KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2

NO	DATE	REVISION
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Typed or Printed Name: Ryan J. Lindahl
Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
120/208 VOLT PANEL SCHEDULES

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E501**

Autodesk Docs://23139-ATCC Student Services & Transportation Center/E24_ATCC Student Services & Transportation Center_Central.rvt
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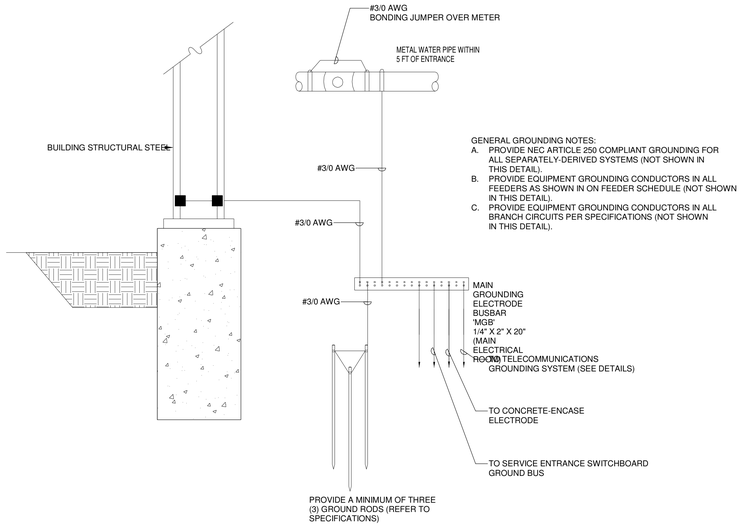
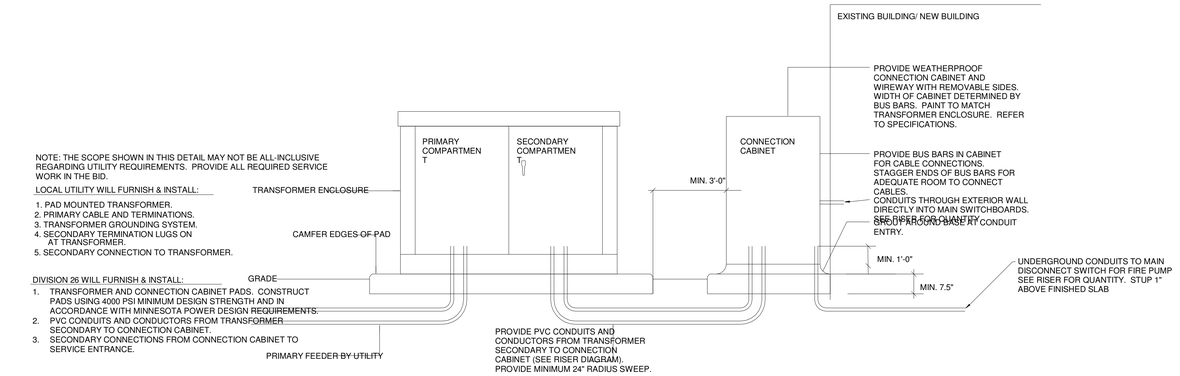


GENERAL GROUNDING NOTES:
A. PROVIDE NEC ARTICLE 250 COMPLIANT GROUNDING FOR ALL SEPARATELY-DERIVED SYSTEMS (NOT SHOWN IN THIS DETAIL).
B. PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AS SHOWN IN ON FEEDER SCHEDULE (NOT SHOWN IN THIS DETAIL).
C. PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL BRANCH CIRCUITS PER SPECIFICATIONS (NOT SHOWN IN THIS DETAIL).

1 GROUNDING ELECTRODE DETAIL
1/8" = 1'-0"



NOTE: THE SCOPE SHOWN IN THIS DETAIL MAY NOT BE ALL-INCLUSIVE REGARDING UTILITY REQUIREMENTS. PROVIDE ALL REQUIRED SERVICE WORK IN THE BID.

LOCAL UTILITY WILL FURNISH & INSTALL:
1. PAD MOUNTED TRANSFORMER.
2. PRIMARY CABLE AND TERMINATIONS.
3. TRANSFORMER GROUNDING SYSTEM.
4. SECONDARY TERMINATION LUGS ON AT TRANSFORMER.
5. SECONDARY CONNECTION TO TRANSFORMER.

DIVISION 26 WILL FURNISH & INSTALL:
1. TRANSFORMER AND CONNECTION CABINET PADS. CONSTRUCT PADS USING 4000 PSI MINIMUM DESIGN STRENGTH AND IN ACCORDANCE WITH MINNESOTA POWER DESIGN REQUIREMENTS.
2. PVC CONDUITS AND CONDUCTORS FROM TRANSFORMER SECONDARY TO CONNECTION CABINET.
3. SECONDARY CONNECTIONS FROM CONNECTION CABINET TO SERVICE ENTRANCE.

2 ELECTRICAL SERVICE - UTILITY TRANSFORMER PAD DETAIL
1/8" = 1'-0"

ELECTRICAL UTILITY COORDINATION MATRIX

EQUIPMENT ITEMS	SPECIFY			FURNISHED				INSTALLED				REMARKS
	UTILITY (MINNESOTA POWER)	OWNER	ELECTRICAL CONSULTANT	UTILITY (MINNESOTA POWER)	OWNER	GENERAL CONTRACTOR	ELECTRICAL CONTRACTOR	UTILITY (MINNESOTA POWER)	OWNER	GENERAL CONTRACTOR	ELECTRICAL CONTRACTOR	
ELECTRICAL SERVICE												
PRIMARY CABLING	X			X				X				
PRIMARY CONDUIT	X			X				X				
TRANSFORMER	X			X				X				
TRANSFORMER PAD	X											
SECONDARY CABLING			X			X	X			X	X	
SECONDARY CONDUIT			X				X				X	
PT CABINET			X				X				X	
SERVICE CONNECTION CABINET			X				X				X	
CT/VT	X			X				X				
METER	X			X				X				
METER SOCKET	X			X				X				
CONTROL WIRE	X			X				X				

3 ELECTRICAL UTILITY COORDINATION MATRIX
12" = 1'-0"

SWITCHBOARD PANEL: HSB-700N

LOCATION: SITE (700 NORTH BLDG) **VOLTAGE:** 480Y/277 V. 3 ø 4 W.
MOUNTING: SURFACE **A.I.C. RATING:** 42,000
MAINS TYPE: 600A **ENCLOSURE:** NEMA 3R
BUS AMPS: 600A **SPECIAL:**

SECTION No. 1

CKT	FRAME	POLES	TRIP	KVA	DESCRIPTION/NAMEPLATE	NOTES
1	600 A	3	500 A	200.0 kVA	T-700N	
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

PANEL TOTALS

CONN. LOAD:	200000 VA
EST. DEMAND LOAD:	200000 VA
CONN. CURRENT:	241 A
EST. DEMAND CURRENT:	241 A

NOTES:
A. SUITABLE FOR USE AS A SERVICE ENTRANCE EQUIPMENT.
B. PROVIDE WITH LSI MAIN AND SURGE PROTECTIVE DEVICE.

PANELBOARD: LP-1-4A

LOCATION: DIESEL LAB 2ND YEAR 823 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE **A.I.C. RATING:** 22,000 AMPS SYMMETRICAL
MAINS TYPE: 400A MCB **ENCLOSURE:** NEMA1
BUS AMPS: 400 AMPS **SPECIAL:**

LOAD DESCRIPTION	BKR	P	CKT	PHASE A kVA		PHASE B kVA		PHASE C kVA		CKT	P	BKR	LOAD DESCRIPTION
WINDOW SHADES	20 A	1	1	1.0	--					2	1	--	SPACE
WINDOW SHADES	20 A	1	3			1.0	--			4	1	--	SPACE
WINDOW SHADES	20 A	1	5					0.6	--	6	1	--	SPACE
WINDOW SHADES	20 A	1	7	1.4	--					8	1	--	SPACE
AC-3	20 A	1	9			0.4	--			10	1	--	SPACE
SPARE	20 A	1	11					0.0	--	12	1	--	SPACE
SPARE	20 A	1	13	0.0	--					14	1	--	SPACE
SPARE	20 A	1	15			0.0	--			16	1	--	SPACE
SPARE	20 A	1	17					0.0	--	18	1	--	SPACE
SPARE	20 A	1	19	0.0	--					20	1	--	SPACE
SPARE	20 A	1	21			0.0	--			22	1	--	SPACE
SPARE	20 A	1	23					0.0	--	24	1	--	SPACE
SPARE	20 A	1	25	0.0	--					26	1	--	SPACE
SPARE	20 A	1	27			0.0	--			28	1	--	SPACE
SPACE	--	1	29					--	--	30	1	--	SPACE
SPACE	--	1	31	--	--					32	1	--	SPACE
SPACE	--	1	33			--	--			34	1	--	SPACE
SPACE	--	1	35					--	--	36	1	--	SPACE
SPACE	--	1	37	--	--					38	1	--	SPACE
SPACE	--	1	39			--	--			40	1	--	SPACE
SPACE	--	1	41					--	--	42	1	--	SPACE
			TOTAL LOAD:	2 kVA		1 kVA		1 kVA					
			TOTAL AMPS:	21 A		12 A		5 A					

PANEL TOTALS

CONNECTED LOAD:	4360 VA
ESTIMATED DEMAND:	4360 VA
CONNECTED CURRENT:	12 A
EST. DEMAND CURRENT:	12 A

NOTES:

PANELBOARD: TLP-2-1

LOCATION: EAST MECHANICAL ROOM 832 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE **A.I.C. RATING:** 10,000 AMPS SYMMETRICAL
MAINS TYPE: 50A MCB **ENCLOSURE:** NEMA1
BUS AMPS: 100 AMPS **SPECIAL:**

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
IT/DATA - UPS	30 A	1	1	3.2	0.0					2	1	20 A	SPARE
IT/DATA - TECHNOLGY RACK	20 A	1	3			1.5	0.0			4	1	20 A	SPARE
IT/DATA - TECHNOLGY RACK	20 A	1	5					1.5	0.0	6	1	20 A	SPARE
IT/DATA - TECHNOLGY RACK	20 A	1	7	1.5	0.0					8	1	20 A	SPARE
IT/DATA - RECEPTACLE	20 A	1	9			0.2	0.0			10	1	20 A	SPARE
IT/DATA - RECEPTACLE	20 A	1	11					0.2	0.0	12	1	20 A	SPARE
IT/DATA - RECEPTACLE	20 A	1	13	0.2	0.0					14	1	20 A	SPARE
IT/DATA - RECEPTACLE	20 A	1	15			0.2	0.0			16	1	20 A	SPARE
IT/DATA - RECEPTACLE	20 A	1	17					0.2	0.0	18	1	20 A	SPARE
IT/DATA - RECEPTACLE	20 A	1	19	0.2	0.0					20	1	20 A	SPARE
IT/DATA - RECEPTACLE	20 A	1	21			0.2	0.0			22	1	20 A	SPARE
SPARE	20 A	1	23					0.0	0.0	24	1	20 A	SPARE
			TOTAL LOAD:	5 kVA		2 kVA		2 kVA					
			TOTAL AMPS:	42 A		17 A		16 A					

PANEL TOTALS

CONNECTED LOAD:	8960 VA
ESTIMATED DEMAND:	8960 VA
CONNECTED CURRENT:	25 A
EST. DEMAND CURRENT:	25 A

NOTES:
PROVIDE PANEL WITH 200% NEUTRALS AND SURGE PROTECTIVE DEVICE.

LHB
701 Washington Ave. N, Ste 200 | Minneapolis, MN 55401 | 612.338.2029

CLIENT:
ALEXANDRIA TECH AND COMM. COLLEGE

ELECTRICAL CONSULTANT:
HALLBERG ENGINEERING
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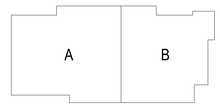
Hermantown, MN 55811

ROOF CONSULTANT:
INSPEC
1000 Parkers Lake Road, Suite 100
Wayzata, MN 55391

TECHNOLOGY CONSULTANT:
TRUE NORTH
140 3rd Street South
Stillwater, MN 55082

ACOUSTICS CONSULTANT:
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2

NO	DATE	REVISION
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Typed or Printed Name: Ryan J. Lindahl
Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
DETAILS AND PANEL SCHEDULES

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E502**

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LIGHTING - SEQUENCE OF OPERATION (SOO)

SOP NUMBER	TYPICAL SPACE TYPE	SYSTEM TYPE	TYPICAL CONTROLS	SEQUENCE OF OPERATIONS	DETAIL #
SOO-1 (1)	LARGE LABS, WASH BAY	DIGITAL LIGHTING NETWORK	MOMENTARY CONTACT SWITCH(ES)	OCCUPIED MODE: MOMENTARY CONTACT SWITCH TO MANUALLY TURN ALL LIGHTS ON AND MANUALLY TURN OFF. DIGITAL LIGHTING SYSTEMS TO SWEEP LIGHTS OF AFTER CLOSE OF SCHOOL.	
SOO-2 (2)	CORRIDORS	DIGITAL LIGHTING NETWORK	MOMENTARY CONTACT SWITCH(ES), OCCUPANCY SENSOR(S),	SCHOOL HOURS: TIME OF DAY PROGRAM 'ON'. VACANCY SENSOR CONTROL THROUGHOUT SCHOOL DAY (OCCUPIED = LIGHTING 'ON' TO 75%, UNOCCUPIED= FIXTURES DIMMED TO 20%).	2
				NON-SCHOOL HOURS: TIME OF DAY PROGRAM 'OFF' VIA DIGITAL LIGHTING CONTROL SYSTEM. OCCUPANCY SENSOR(S) TOOVERRIDE TIME OF DAY PROGRAMMING. OCCUPIED="ON" TO 50% OUTPUT. UNOCCUPIED=LIGHTS "OFF".	
SOO-3 (3)	OFFICES, SMALL LABS	DIGITAL LIGHTING NETWORK	DIMMER SWITCH(S) OCCUPANCY SENSOR(S)	OCCUPIED MODE: WALL BOX DIMMER SWITCH FOR FULL RANGE DIMMING.	3
				UNOCCUPIED MODE: OCCUPANCY SENSOR TO TURN LIGHTS 'OFF' AFTER 10 MINUTES OF VACANCY.	
SOO-4 (4)	BATHROOMS, STORAGE	DIGITAL LIGHTING NETWORK	OCCUPANCY SENSOR(S)	OCCUPANCY SENSOR SENSOR 'ON' AND TIME OF DAY 'OFF' AND OCCUPANCY SENSOR TO TURN LIGHTS 'OFF' AFTER 10 MINUTES AFTER 10 MINUTES OF VACANCY.	4
SOO-5 (5)	EXTERIOR LIGHTING	DIGITAL LIGHTING NETWORK	EXTERIOR PHOTO SENSOR	PHOTO SENSOR 'ON' AND 'OFF'.	
SOO-6 (6)	ENTRY VESTIBULES	DIGITAL LIGHTING NETWORK	OCCUPANCY SENSOR(S), PHOTO SENSOR	SCHOOL HOURS: TIME OF DAY PROGRAM 'ON'. VACANCY SENSOR CONTROL THROUGHOUT SCHOOL DAY (OCCUPIED = LIGHTING 'ON', UNOCCUPIED = FIXTURES DIMMED TO 10%). DAYLIGHT SENSOR SHALL HAVE HIARCHY OF 'ON' LEVEL. DAYLIGHT HARVEST INDICATED FIXTURES.	
				NON-SCHOOL HOURS: LIGHT FIXTURES DIMMED TO 10% WITH OCCUPANCY SENSOR TO OVERRIDE (FOR NIGHT LIGHT)	
SOO-7 (7)	MECHANICAL/ ELECTRICAL/	STAND ALONE	LINE VOLTAGE SWITCH(ES)	LINE VOLTAGE SWITCHES FOR ON/OFF CONTROL. FOR SAFETY OF PERSONNEL, NO AUTOMATIC OFF.	

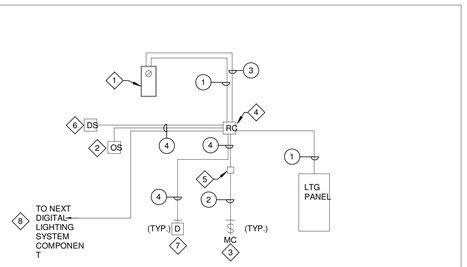
LIGHTING SEQUENCE OF OPERATION NOTES:

A. PROVIDE DIGITAL LIGHTING NETWORK WITH NETWORK MANAGER (HEADEND). CONNECT COMPLETE SUCH THAT ALL LIGHT FIXTURES AND DIGITAL LIGHTING CONTROL COMPONENTS ARE PROGRAMMED, SCHEDULED AND MONITORED AS ONE SYSTEM, UNLESS NOTED OTHERWISE. CONNECT TO OWNERS BAS.

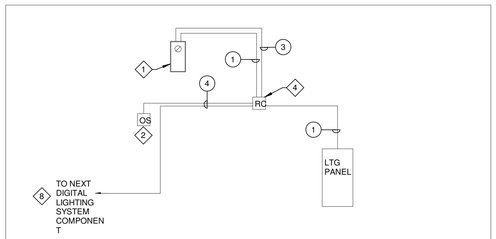
B. COORDINATE ALL "TIME OF DAY" ON AND OFF TIMES, AND OVERRIDE DURATION(S) WITH OWNER PRIOR TO PROGRAMMING SYSTEM.

C. PROVIDE BAC NET MODULE/INTERFACE FOR CONNECTION TO OWNERS BUILDING AUTOMATION SYSTEM.

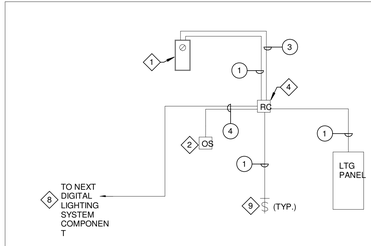
D. TOUCH SCREEN CONTROLLERS TO HAVE FULL RANGE CONTROL AT ALL TIMES (SCHOOL HOURS AND NON-SCHOOL HOURS).



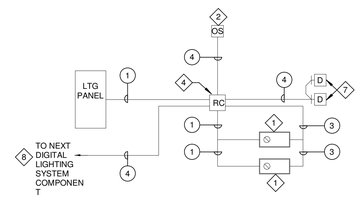
1 TYPICAL CLASSROOM LIGHTING CONTROL DIAGRAM - (SOO-1)
NO SCALE



2 CORRIDOR LIGHTING CONTROL DIAGRAM (SOO-2)
NO SCALE



4 TYPICAL BATHROOM LIGHTING CONTROL DIAGRAM - (SOO-4)
NO SCALE



3 TYPICAL OFFICE & CONFERENCE ROOM LIGHTING CONTROL DIAGRAM - (SOO-3)
NO SCALE

KEY NOTES - LIGHTING CONTROL DIAGRAMS:

1. TYPICAL NORMAL POWERED LIGHT FIXTURE.
2. PROVIDE OCCUPANCY SENSOR. VERIFY QUANTITY, TECHNOLOGY AND LAYOUT WITH SPECIFIC SENSOR MANUFACTURERS RECOMMENDATION.
3. MOMENTARY CONTACT SWITCH. WIRE SUCH THAT AN UPWARD MOVEMENT TURNS LIGHTS 'ON' AND AN DOWNWARD MOVEMENT TURNS LIGHTS 'OFF'.
4. PROVIDE 0-10V DIMMING POWER PACKS OR ROOM CONTROLLER(S) AS NECESSARY FOR CIRCUITS AND CONTROL ZONES INDICATED IN ROOM/SPACE.
5. IF REQUIRED, PROVIDE I/O DEVICE FOR MOMENTARY CONTACT INPUT TO POWER PACK OR ROOM CONTROLLER.
6. PROVIDE INTERIOR DAYLIGHT SENSOR.
7. PROVIDE LOW VOLTAGE DIMMER. DIMMER SWITCHES TO HAVE ON/OFF AND RAISE/LOWER BUTTONS.
8. DIGITAL LIGHTING CONTROL NETWORK 'LOOP'. CONNECT LIGHT FIXTURES AND CONTROL DEVICES AS INDICATED ON DRAWINGS TO DIGITAL LIGHTING CONTROL NETWORK. PROVIDE COMPLETE WORKING SYSTEM. REFER TO SPECIFICATION SECTION 26.09.44.
9. PROVIDE LINE VOLTAGE SWITCH.

WIRING TYPE SCHEDULE	
1	120/277 VOLT NORMAL POWER CKT
2	LOW VOLTAGE WIRING
3	0-10 VOLT DIMMING WIRING
4	CAT 5 CABLE

LIGHT FIXTURE SCHEDULE

LTR TYPE	FIXTURE TYPE	MOUNTING	LAMP TYPE	VOLTAGE/ BALLAST	FIXTURE DESCRIPTION	MANUFACTURER/ CATALOG SERIES
A	2 X 2 LED TROFFER	RECESSED IN GRID CEILING	LED 4,800 LUMENS 4000K	120-277 VOLT 0-10V DIMMING DRIVER	FULLY LUMINOUS DIFFUSE ACRYLIC PANEL, PAINTED AFTER FABRICATION.	LITHONIA EPANL SERIES SATCO 65 SERIES METALUX FP SERIES CREE FP SERIES COLUMBIA CFP SERIES
B	4 FOOT STRIP	CHAIN HUNG	LED 4,000 LUMENS 4000K	ELECTRONIC LED DRIVER	INDUSTRIAL LED FIXTURE, HEAVY DUTY WIREGUARD.	METALUX LED LINEAR BAY SERIES MERCURY LW3 SERIES LITHONIA MSL SERIES LUMAX EHLED SERIES
C	HIGH BAY LIGHT FIXTURE	CHAIN HUNG	LED 24,000 LUMENS 4000K	ELECTRONIC LED DRIVER	INDUSTRIAL LED FIXTURE, HEAVY DUTY WIREGUARD.	LITHONIA IBG SERIES METALUX OBH SERIES PRE-APPROVED EQUAL (1)
D	DOWNLIGHT 6 INCH ROUND	RECESSED	LED 2,000 LUMENS 4000K	120-277 VOLT 0-10V DIMMING DRIVER	PHILIPS FORTIMO LED MODULE WITH 0-10V ELECTRONIC DIMMING DRIVER	PORTFOLIO LD6A SERIES PRESCOLITE LF6LED SERIES LITHONIA LDN6 SERIES LIGHTOLIER PRD6 SERIES
E	EXIT LIGHT SINGLE FACE	UNIVERSAL	LED - INCLUDED	120-277V NA	GREEN STENCIL, BRUSHED ALUMINUM FACE, BLACK DIE CAST HOUSING, NI-CAD BATTERY, SELF DIAGNOSTICS.	LITHONIA LES SERIES EXITRONIX 400U SERIES CHORIDE 55 SERIES DUAL-LITE SES SERIES CROPER SURFLITES OA SERIES
F	GENERAL PURPOSE CEILING LIGHT	SURFACE	LED 500 LUMENS PER FOOT 4000K	120-277V NA	WHITE FIBER GLASS HOUSING, ACRYLIC LENS, IP66 RATED	LITHONIA FEM LED SERIES METALUX VT3 SERIES PRE-APPROVED EQUAL
G	EXTERIOR WALL PACK	SURFACE	LED 5,000 LUMENS 5000K	120-277V NA	CAST ALUMINUM HOUSING, DARK BRONZE FINISH, WIDE DISTRIBUTION	LITHONIA WST SERIES MCGRAW-EDISON GKO SERIES PRE-APPROVED EQUAL
G1	EXTERIOR WALL PACK FLOOD	SURFACE	LED 8,000 LUMENS 5000K	120-277V NA	CAST ALUMINUM HOUSING, DARK BRONZE FINISH, MEDIUM DISTRIBUTION, GLASS LENS	LITHONIA TWH SERIES LUMARK WPSQ2SS SERIES PRE-APPROVED EQUAL
H (1)	TAPE LIGHT	SURFACE (DISPLAY CASE)	LED 300 LUMENS/FT 4000K	120-277V NA	CUSTOM LENGTH (FIELD MEASURE), FROSTED LENS, 1/2" DEEP CHANNEL, WHITE FINISH	BEAMEVER ANNO SERIES NOVA FLEX PRO SERIES PRE-APPROVED EQUAL
AA	AREA LIGHT	30'-0" POLE (1)	LED 24,000 LUMENS 5000K	120-277V NA	CAST ALUMINUM HOUSING, DARK BRONZE FINISH, TYPE 4 LIGHT DISTRIBUTION	LITHONIA DSX1 SERIES PRE-APPROVED EQUAL

LHB
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Stillwater, MN 55082

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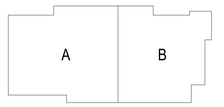
KRA
1917 Coventry Court
Mendota Heights, MN 55118

TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:

Typed or Printed Name: Ryan J. Lindahl

Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
LIGHTING SCHEDULES AND DETAILS

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E600**

Autodesk Docs://23726 ATCC Student Services & Transportation Center/E24_ATCC Student Services & Transportation Center_Central.rvt
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MECHANICAL EQUIPMENT SCHEDULE

XXX XXX	DESCRIPTION LOCATION	V/Ø	HP	MCA FLA	DISC. BY DISC. SIZE	DISC. TYPE DISC. LOC.	STARTER BY STARTER SIZE	STARTER TYPE STARTER LOC.	CONTROL BY CONTROL TYPE	CONTROL LOC.	CONDUIT SIZE CONDUCTORS	PANEL NAME CIRCUIT #	OCD SIZE OCD TYPE	NOTES
AC 1	AIR CURTAIN TRUCK DRIVING LAB 814	120/1	1/6		DIVISON 26 20A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	DIVISION 23 DOOR LIMIT SW	NEAR UNIT	3/4" 2#12 & GND	LP-1-2 -	20A/1P BREAKER	11, 1
AC 2	AIR CURTAIN DIESEL LAB - 1ST YEAR 815	120/1	1/6		DIVISON 26 20A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	DIVISION 23 DOOR LIMIT SW	NEAR UNIT	3/4" 2#12 & GND	LP-1-3 65	20A/1P BREAKER	11
AC 3	AIR CURTAIN DIESEL LAB - 2ND YEAR 823	120/1	1/6		DIVISON 26 20A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	DIVISION 23 DOOR LIMIT SW	NEAR UNIT	3/4" 2#12 & GND	LP-1-4A 9	20A/1P BREAKER	11
ACCU 1	AIR COOLED CONDENSING UNIT EAST MECHANICAL ROOM 832	208/1		28.0 MCA	DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ON UNIT	DIVISION 23 T-STAT/BAS	NA	3/4" 2#10 & GND	LP-2-2 5,7	40A/2P BREAKER	1
ACP 1	AIR COMPRESSOR EAST MECHANICAL ROOM 832	480/3	15.0 HP		DIVISION 60A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ON UNIT	MFR NA	ON UNIT	3/4" 3#10 & GND	HDP-2-2 3	45A/3P BREAKER	1
AHU 1S	AIR HANDLING UNIT - SUPLY WEST MECHANICAL ROOM 828	480/3	5.0 HP		DIVISION 23 NA	VFD ON UNIT	DIVISION 23 NA	VFD ON UNIT	DIVISION 23 BAS	NA	3/4" 3#12 & GND	HDP-2-1 2	15A/3P BREAKER	3,4
AHU 1R	AIR HANDLING UNIT - RETURN WEST MECHANICAL ROOM 828	480/3	2.0 HP		DIVISION 23 NA	VFD ON UNIT	DIVISION 23 NA	VFD ON UNIT	DIVISION 23 BAS	NA	3/4" 3#12 & GND	HDP-2-1 3	15A/3P BREAKER	3,4
AHU 2S	AIR HANDLING UNIT - SUPLY WEST MECHANICAL ROOM 828	480/3	7.5 HP		DIVISION 23 NA	VFD ON UNIT	DIVISION 23 NA	VFD ON UNIT	DIVISION 23 BAS	NA	3/4" 3#12 & GND	HDP-2-1 4	25A/3P BREAKER	3,4
AHU 2R	AIR HANDLING UNIT - RETURN WEST MECHANICAL ROOM 828	480/3	5 HP		DIVISION 23 NA	VFD ON UNIT	DIVISION 23 NA	VFD ON UNIT	DIVISION 23 BAS	NA	3/4" 3#12 & GND	HDP-2-1 5	15A/3P BREAKER	3,4
AHU 3S	AIR HANDLING UNIT - SUPLY EAST MECHANICAL ROOM 832	480/3	10.0 HP		DIVISION 23 NA	VFD ON UNIT	DIVISION 23 NA	VFD ON UNIT	DIVISION 23 BAS	NA	3/4" 3#12 & GND	HDP-2-2	35A/3P BREAKER	3,4
AHU 3R	AIR HANDLING UNIT - RETURN EAST MECHANICAL ROOM 832	480/3	7.5 HP		DIVISION 23 NA	VFD ON UNIT	DIVISION 23 NA	VFD ON UNIT	DIVISION 23 BAS	NA	3/4" 3#12 & GND	HDP-2-2	25A/3P BREAKER	3,4
AHU 4S	AIR HANDLING UNIT - SUPLY EAST MECHANICAL ROOM 832	480/3	10.0 HP		DIVISION 23 NA	VFD ON UNIT	DIVISION 23 NA	VFD ON UNIT	DIVISION 23 BAS	NA	3/4" 3#12 & GND	HDP-2-2	35A/3P BREAKER	3,4
AHU 4R	AIR HANDLING UNIT - RETURN EAST MECHANICAL ROOM 832	480/3	7.5 HP		DIVISION 23 NA	VFD ON UNIT	DIVISION 23 NA	VFD ON UNIT	DIVISION 23 BAS	NA	3/4" 3#12 & GND	HDP-2-2	25A/3P BREAKER	3,4
ASHP 1	AIR SOURCE HEAT PUMP SITE	480/3		40.0 MCA	DIVISION 26 60A/3P	NEMA 3R ON UNIT	DIVISON 23 NA	NA ON UNIT	DIVISION 23 BAS	NA	1" 3#6 & 1#10 GND	HSB-1-1 6	60A/3P BREAKER	1
CUH 1	CABINET UNIT HEATER VESTIBULE 800	120/1		4.0 FLA	DIVISON 23 NA	NA ON UNIT	MFR NA	NA ON UNIT	DIVISION 23 BAS	NA	3/4" 2#12 & GND	LP-1-3 63	20A/1P BREAKER	5
CUH 2	CABINET UNIT HEATER VESTIBULE 802	120/1		4.0 FLA	DIVISON 23 NA	NA ON UNIT	MFR NA	NA ON UNIT	DIVISION 23 BAS	NA	3/4" 2#12 & GND	LP-1-4 62	20A/1P BREAKER	5
CP 1	CIRCULATION PUMP WEST MECHANICAL ROOM 828	120/1		1.0 FLA	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ON UNIT	DIVISION 23 BAS	NA	3/4" 2#12 & GND	LP-2-1 7	20A/1P BREAKER	1
DF 814A	DESTRAFICATION FAN TRUCK DRIVING LAB 814	480/3		2.0 FLA	DIVISION 26 30A/3P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR CONTROL PNL	-	3/4" 3#12 & GND	HDP-2-1 18	15A/3P BREAKER	6
DF 814B	DESTRAFICATION FAN TRUCK DRIVING LAB 814	480/3		2.0 FLA	DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR CONTROL PNL	-	3/4" 3#12 & GND	HDP-2-1 18	15A/3P BREAKER	6
DF 815A	DESTRAFICATION FAN DIESEL LAB 1ST YEAR 815	480/3		2.0 FLA	DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR CONTROL PNL	-	3/4" 3#12 & GND	HDP-2-1 19	15A/3P BREAKER	6
DF 815B	DESTRAFICATION FAN DIESEL LAB 1ST YEAR 815	480/3		2.0 FLA	DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR CONTROL PNL	-	3/4" 3#12 & GND	HDP-2-1 19	15A/3P BREAKER	6
DF 823A	DESTRAFICATION FAN DIESEL LAB 2ND YEAR 823	480/3		2.0 FLA	DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR CONTROL PNL	-	3/4" 3#12 & GND	HDP-2-2 16	15A/3P BREAKER	6
DF 823B	DESTRAFICATION FAN DIESEL LAB 2ND YEAR 823	480/3		2.0 FLA	DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR CONTROL PNL	-	3/4" 3#12 & GND	HDP-2-2 16	15A/3P BREAKER	6
EBB 1	ELECTRIC BASE BOARD HEATER ELECTRICAL 811	120/1		0.5 KW	DIVISON 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	DIVISION 23 REMOTE T-STAT	811	3/4" 2#12 & GND	LP-1-2 36	20A/1P BREAKER	7
EF 817	EXHAUST FAN ROOF	208/3	1/6 HP		DIVISON 26 30A/1P	NEMA 3R ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISION 23 MSS SWITCH	817	3/4" 3#12 & GND	LP-2-2 2,4,6	20A/3P BREAKER	2
EF 826	EXHAUST FAN ROOF	208/3	3.0 HP		DIVISON 26 30A/1P	NEMA 3R ON UNIT	DIVISON 23 NA	NA ON UNIT	DIVISION 23 WALL SWITCH	826	3/4" 3#12 & GND	LP-2-2 8,10,12	20A/3P BREAKER	2
EF 827	EXHAUST FAN ROOF	120/1	51W		DIVISON 26 30A/1P	NEMA 3R ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISION 23 BAS	NA	3/4" 2#12 & GND	LP-2-2 11	20A/1P BREAKER	1
ERV 1	ENERGY RECOVERY VENTILATOR WEST MECHANICAL ROOM 828	208/3		7.7 MCA	DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ON UNIT	DIVISION 23 BAS	NA	3/4" 3#12 & GND	LP-2-1 11,13	20A/3P BREAKER	1
FCU 1	FAN COIL UNIT	208/1		10.0 MCA	DIVISON 26 30A/2P	NEMA 1 NEAR UNIT	DIVISION 23 CONTROL PNL	ON UNIT	DIVISION 23 ACCU-1	NA	3/4" 2#12 & GND	ACCU-1 SEE NOTES	NA	8
GMP-1 1	GLYCOL MAKE-UP PUMP WEST MECHANICAL ROOM 828	120/1		1.0 FLA	DIVISON 26 30A/1P	NEMA 5-20R NEAR UNIT	DIVISION 22 NA	NA ON UNIT	DIVISON 22 NA	NA	3/4" 2#12 & GND	LP-2-1 5	20A/1P BREAKER	9
P 1	PUMP WEST MECHANICAL ROOM 828	480/3	7.5 HP		DIVISION 23 NA	VFD NEAR UNIT	DIVISION 23 NA	VFD NEAR UNIT	DIVISON 23 BAS	NA	3/4" 3#12 & GND	HDP-2-1 6	25A/3P BREAKER	3
P 2	PUMP WEST MECHANICAL ROOM 828	480/3	7.5 HP		DIVISION 23 NA	VFD NEAR UNIT	DIVISION 23 NA	VFD NEAR UNIT	DIVISON 23 BAS	NA	3/4" 3#12 & GND	HDP-2-1 7	25A/3P BREAKER	3
P 3	PUMP FIRE RISER 812	120/1	1/3 HP		DIVISON 26 30A/1P	NEMA 1 NEAR UNIT	DIVISION 22 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-2 40	20A/1P BREAKER	1
P 4	PUMP DIESEL LAB 2ND YEAR 823	120/1	1/3 HP		DIVISON 26 30A/1P	NEMA 1 NEAR UNIT	DIVISON 22 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-4 74	20A/1P BREAKER	1
UH 1	UNIT HEATER FLEX BAY 813	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-2 28	20A/1P BREAKER	5
UH 2	UNIT HEATER TRUCK DRIVING LAB 814	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-2 30	20A/1P BREAKER	5
UH 3	UNIT HEATER TRUCK DRIVING LAB 814	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-2 32	20A/1P BREAKER	5
UH 4	UNIT HEATER TRUCK DRIVING LAB 814	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-2 34	20A/1P BREAKER	5

MECHANICAL EQUIPMENT SCHEDULE

XXX XXX	DESCRIPTION LOCATION	V/Ø	HP	MCA FLA	DISC. BY DISC. SIZE	DISC. TYPE DISC. LOC.	STARTER BY STARTER SIZE	STARTER TYPE STARTER LOC.	CONTROL BY CONTROL TYPE	CONTROL LOC.	CONDUIT SIZE CONDUCTORS	PANEL NAME CIRCUIT #	OCD SIZE OCD TYPE	NOTES
UH 5	UNIT HEATER DIESEL LAB 1ST YEAR 815	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-3 49	20A/1P BREAKER	5
UH 6	UNIT HEATER DIESEL LAB 1ST YEAR 815	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-3 51	20A/1P BREAKER	5
UH 7	UNIT HEATER DIESEL LAB 1ST YEAR 815	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-3 53	20A/1P BREAKER	5
UH 8	UNIT HEATER EQUIPMENT 816	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-4 50	20A/1P BREAKER	5
UH 9	UNIT HEATER DIESEL LAB 2ND YEAR 823	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-4 52	20A/1P BREAKER	5
UH 10	UNIT HEATER DIESEL LAB 2ND YEAR 823	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-4 54	20A/1P BREAKER	5
UH 11	UNIT HEATER FLUID STORAGE 827	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-4 56	20A/1P BREAKER	5
UH 12	UNIT HEATER DYNO 826	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-4 58	20A/1P BREAKER	5
UH 13	UNIT HEATER DIESEL LAB 2ND YEAR 823	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-1-4 60	20A/1P BREAKER	5
UH 14	UNIT HEATER EAST MECHANICAL ROOM 832	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-2-2 9	20A/1P BREAKER	5
UH 15	UNIT HEATER WEST MECHANICAL ROOM 828	120/1	1/5 HP		DIVISION 23 NA	NA ON UNIT	DIVISION 23 NA	NA ON UNIT	DIVISON 23 BAS	NA	3/4" 2#12 & GND	LP-2-1 3	20A/1P BREAKER	5
VEF 815-1	VEHICALE EXHAUST FAN DIESEL LAB 1ST YEAR 815	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR WALL SWITCHES		SEE E300a	3/4" 3#12 & GND	HDP-2-1 8	15A/3P BREAKER	10
VEF 815-2	VEHICALE EXHAUST FAN DIESEL LAB 1ST YEAR 815	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300a	3/4" 3#12 & GND	HDP-2-1 9	15A/3P BREAKER	10
VEF 815-3	VEHICALE EXHAUST FAN DIESEL LAB 1ST YEAR 815	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300a	3/4" 3#12 & GND	HDP-2-1 10	15A/3P BREAKER	10
VEF 815-4	VEHICALE EXHAUST FAN DIESEL LAB 1ST YEAR 815	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300a	3/4" 3#12 & GND	HDP-2-1 11	15A/3P BREAKER	10
VEF 815-5	VEHICALE EXHAUST FAN DIESEL LAB 1ST YEAR 815	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300a	3/4" 3#12 & GND	HDP-2-1 12	15A/3P BREAKER	10
VEF 815-6	VEHICALE EXHAUST FAN DIESEL LAB 1ST YEAR 815	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300a	3/4" 3#12 & GND	HDP-2-1 13	15A/3P BREAKER	10
VEF 815-7	VEHICALE EXHAUST FAN DIESEL LAB 1ST YEAR 815	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300a	3/4" 3#12 & GND	HDP-2-1 14	15A/3P BREAKER	10
VEF 815-8	VEHICALE EXHAUST FAN DIESEL LAB 1ST YEAR 815	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300a	3/4" 3#12 & GND	HDP-2-1 15	15A/3P BREAKER	10
VEF 815-9	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300a	3/4" 3#12 & GND	HDP-2-1 16	15A/3P BREAKER	10
VEF 815-10	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300a	3/4" 3#12 & GND	HDP-2-1 17	15A/3P BREAKER	10
VEF 823-1	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300b	3/4" 3#12 & GND	HDP-2-2 8	15A/3P BREAKER	10
VEF 823-2	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300b	3/4" 3#12 & GND	HDP-2-2 9	15A/3P BREAKER	10
VEF 823-3	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300b	3/4" 3#12 & GND	HDP-2-2 10	15A/3P BREAKER	10
VEF 823-4	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300b	3/4" 3#12 & GND	HDP-2-2 11	15A/3P BREAKER	10
VEF 823-5	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300b	3/4" 3#12 & GND	HDP-2-2 12	15A/3P BREAKER	10
VEF 823-6	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300b	3/4" 3#12 & GND	HDP-2-2 13	15A/3P BREAKER	10
VEF 823-7	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300b	3/4" 3#12 & GND	HDP-2-2 14	15A/3P BREAKER	10
VEF 823-8	VEHICALE EXHAUST FAN DIESEL LAB 2ND YEAR 823	480/3	1.5 HP		DIVISON 26 30A/3P	NEMA 1 NEAR UNIT	DIVISION 23 NA	NA ONUNIT	MFR CONTROL PNL		SEE E300b	3/4" 3#12 & GND	HDP-2-2 15	15A/3P BREAKER	10
WS 1	WATER SOFTENER WEST MECHANICAL ROOM 828	120/1		1.0 FLA	DIVISION 26 20A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR NA	NA	3/4" 2#12 & GND	LP-2-1 9	20A/1P BREAKER	9

MECHANICAL EQUIPMENT SCHEDULE GENERAL NOTES:

A. ROUTE ALL ROOF CONDUIT PENETRATIONS THROUGH ROOF CURB.

B. ALL RELAYS REQUIRED FOR INTERFACE WITH FACILITY MANAGEMENT SYSTEM (BFMS) WILL BE FURNISHED AND INSTALLED BY MECH CONTRACTOR UNLESS NOTED OTHERWISE.

C. ALL CONTROL WIRING FOR FMS RELAYS WILL BE BY MECHANICAL CONTRACTOR.

D. PROVIDE ALL MAGNETIC STARTERS WITH H/O/A SELECTOR SWITCHES.

E. ALL POWER FACTOR CORRECTION CAPACITORS FOR MOTORS 3HP AND LARGER WILL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

F. VARIABLE FREQUENCY DRIVES WILL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. REFER TO THE POWER PLANS FOR THE VFD LOCATIONS.

G. PROVIDE VFD LINE AND LOAD CONDUCTORS IN SEPARATE CONDUITS. DO NOT COMBINE OTHER MOTOR CONDUCTORS IN SAME CONDUITS.

MECHANICAL EQUIPMENT SCHEDULE NOTES:

1. PROVIDE DISCONNECT SWITCH AND CONNECT POWER TO UNIT.
2. PROVIDE DISCONNECT SWITCH AND REMOTE MOTOR STARTER SWITCH. CONNECT POWER TO UNIT VIA REMOTE MOTOR STARTER SWITCH.
3. INSTALL VFD FURNISHED BY DIVISION 23 AND CONNECT POWER TO UNIT. COORDINATE VFD LOCATION WITH DIVISION 23 CONTRACTOR.
4. PROVIDE CONNECTION TO FIRE ALARM SYSTEM (AND LOCAL DUCT DETECTOR) FOR UNIT SHUT DOWN. CONNECT SUCH THAT THE UNIT SHUT DOWN UNDER ALARM CONDITIONS FROM THE ASSOCIATED DUCT SMOKE DETECTOR ONLY, NOT A GENERAL ALARM.
5. CONNECT POWER TO UNIT VIA INTEGRAL DISCONNECT SWITCH.
6. PROVIDE DISCONNECT SWITCH AND CONNECT POWER TO UNIT VIA REMOTE CONTROL PANEL. PROVIDE FIRE ALARM CONTROL MODULE AND CONNECT TO FIRE ALARM SYSTEM SUCH THAT UNIT WILL SHUT DOWN UNDER ALARM CONDITIONS. REFER TO POWER PLANS AND SAFETY AND SECUITY PLANS FOR ADDITIONAL INFORMATION.
7. PROVIDE DISCONNECT SWITH AND CONNECT POWER TO UNIT VIA REMOTE THERMOSTAT (FURNISHED BY DIVISION 23 AND INSTALLED BY DIVSION 26). REFER TO POWER PLANS FOR ADDITIONAL INFORMATION.
8. PROVIDE DISCONNECT SWITCH AND CONNECT POWER TO REMOTE CONDENSING UNIT ACCU-1. COORDINATE WITH DIVISION 23 CONTRACTOR.
9. PROVIDE NEMA 5-20R OUTLET AND CONNECT POWER TO UNIT.
10. PROVIDE DISCONNECT SWITCH AND CONNECT POWER TO UNIT VIA REMOTE CONTROL PANEL . REFER TO POWER PLAN FOR ADDITIONAL INFORMATION.
11. PROVIDE DISCONNECT SWITCH AND CONNECT POWER TO UNIT. INSTALL DOOR LIMIT SWITCH (FURNISHED BY DIVISION 23) AND CONNECT TO UNIT FOR ON/OFF CONTROL. 1

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TRANSPORTATION CENTER

KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Typed or Printed Name: Ryan J. Lindahl
Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
MECHANICAL SCHEDULES

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E601**

Autodesk Docs://23139-ATCC Student Services & Transportation Center/E24_ATCC Student Services & Transportation Center_Central.rvt
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BUILDING EQUIPMENT SCHEDULE

XX ##	DESCRIPTION LOCATION	V/Ø	HP	MCA FLA	DISC. BY DISC. SIZE	DISC. TYPE DISC. LOC.	STARTER BY STARTER SIZE	STARTER TYPE STARTER LOC.	CONTROL BY CONTROL TYPE	CONTROL LOC.	CONDUIT SIZE CONDUCTORS	PANEL NAME CIRCUIT #	OCD SIZE OCD TYPE	NOTES
EHD 1	ELECTRIC HAND DRYER	120/1		12.2 MCA	MFR NA	NA ON UNIT	MFR NA	NA ON UNIT	MFR SENSOR	INTEGRAL	3/4" 2#12 & GND	LP-1-2 14	20A/1P BREAKER	3
EHD 2	ELECTRIC HAND DRYER	120/1		12.2 MCA	MFR NA	NA ON UNIT /1\	MFR NA	NA ON UNIT	MFR SENSOR	INTEGRAL	3/4" 2#12 & GND	LP-1-2 16	20A/1P BREAKER	3
OHD 1	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300a	3/4" 2#12 & GND	LP-1-2 18	20A/1P BREAKER	1
OHD 2	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300a	3/4" 2#12 & GND	LP-1-2 20	20A/1P BREAKER	1
OHD 3	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300a	3/4" 2#12 & GND	LP-1-2 22	20A/1P BREAKER	1
OHD 4	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300a	3/4" 2#12 & GND	LP-1-2 24	20A/1P BREAKER	1
OHD 5	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300a	3/4" 2#12 & GND	LP-1-2 26	20A/1P BREAKER	1
OHD 6	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300a	3/4" 2#12 & GND	LP-1-3 55	20A/1P BREAKER	1
OHD 7	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300a	3/4" 2#12 & GND	LP-1-3 57	20A/1P BREAKER	1
OHD 8	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300b	3/4" 2#12 & GND	LP-1-4 38	20A/1P BREAKER	1
OHD 9	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300b	3/4" 2#12 & GND	LP-1-4 40	20A/1P BREAKER	1
OHD 10	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300b	3/4" 2#12 & GND	LP-1-4 42	20A/1P BREAKER	1
OHD 11	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300b	3/4" 2#12 & GND	LP-1-4 44	20A/1P BREAKER	1
OHD 12	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300b	3/4" 2#12 & GND	LP-1-4 46	20A/1P BREAKER	1
OHD 13	OVER-HEAD DOOR	120/1	3/4		DIVISION 26 30A/1P	NEMA 5-20R NEAR UNIT	MFR NA	NA ON UNIT	MFR UP/DOWN/STOP	SEE E300b	3/4" 2#12 & GND	LP-1-4 48	20A/1P BREAKER	1
PADO 1A	POWER ASSISTED DOOR OPENER	120/1	1/2	-	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR PADDLE SW	SEE E300a	3/4" 2#12 & GND	LP-1-3 59	20A/1P BREAKER	2
PADO 1B	POWER ASSISTED DOOR OPENER	120/1	1/2	-	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR PADDLE SW	SEE E300a	3/4" 2#12 & GND	LP-1-3 61	20A/1P BREAKER	2
PADO 2A	POWER ASSISTED DOOR OPENER	120/1	1/2	-	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR PADDLE SW	SEE E300b	3/4" 2#12 & GND	LP-1-4 64	20A/1P BREAKER	2
PADO 2B	POWER ASSISTED DOOR OPENER	120/1	1/2	-	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR PADDLE SW	SEE E300b	3/4" 2#12 & GND	LP-1-4 66	20A/1P BREAKER	2
/1\ VEHR 815-1	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 2	20A/1P BREAKER	4
VEHR 815-2	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 4	20A/1P BREAKER	4
VEHR 815-3	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 6	20A/1P BREAKER	4
VEHR 815-4	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 8	20A/1P BREAKER	4
VEHR 815-5	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 10	20A/1P BREAKER	4
VEHR 815-6	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 12	20A/1P BREAKER	4
VEHR 815-7	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 14	20A/1P BREAKER	4
VEHR 815-8	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 16	20A/1P BREAKER	4
VEHR 815-9	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 18	20A/1P BREAKER	4
VEHR 815-10	VEHICAL EXHAUST HOSE REEL DIESEL LAB 1ST YEAR 815	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300a	3/4" 2#12 & GND	LP-2-1 20	20A/1P BREAKER	4
VEHR 823-1	VEHICAL EXHAUST HOSE REEL DIESEL LAB 2ND YEAR 823	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300b	3/4" 2#12 & GND	LP-2-2 13	20A/1P BREAKER	4
VEHR 823-2	VEHICAL EXHAUST HOSE REEL DIESEL LAB 2ND YEAR 823	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300b	3/4" 2#12 & GND	LP-2-2 15	20A/1P BREAKER	4
VEHR 823-3	VEHICAL EXHAUST HOSE REEL DIESEL LAB 2ND YEAR 823	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300b	3/4" 2#12 & GND	LP-2-2 17	20A/1P BREAKER	4
VEHR 823-4	VEHICAL EXHAUST HOSE REEL DIESEL LAB 2ND YEAR 823	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300b	3/4" 2#12 & GND	LP-2-2 19	20A/1P BREAKER	4
VEHR 823-5	VEHICAL EXHAUST HOSE REEL DIESEL LAB 2ND YEAR 823	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300b	3/4" 2#12 & GND	LP-2-2 21	20A/1P BREAKER	4
VEHR 823-6	VEHICAL EXHAUST HOSE REEL DIESEL LAB 2ND YEAR 823	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300b	3/4" 2#12 & GND	LP-2-2 23	20A/1P BREAKER	4
VEHR 823-7	VEHICAL EXHAUST HOSE REEL DIESEL LAB 2ND YEAR 823	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300b	3/4" 2#12 & GND	LP-2-2 14	20A/1P BREAKER	4
VEHR 823-8	VEHICAL EXHAUST HOSE REEL DIESEL LAB 2ND YEAR 823	120/1		5.3A	DIVISION 26 30A/1P	NEMA 1 NEAR UNIT	MFR NA	NA ON UNIT	MFR REMOTE SW	SEE E300b	3/4" 2#12 & GND	LP-2-2 16	20A/1P BREAKER	4

BUILDING EQUIPMENT SCHEDULE NOTES:

1. PROVIDE DISCONNECT SWITCH AND CONNECT POWER TO UNIT VIA CONTROL PANEL ON UNIT. PROVIDE CONDUIT AND WIRING AND CONNECT CONTROL CIRCUIT TO UP-DOWN-STOP STATION FURNISHED BY VENDOR AND INSTALLED BY DIVISION 26 CONTRACTOR.
2. PROVIDE DISCONNECT SWITCH AND CONNECT POWER TO CONTROL PANEL AND BETWEEN PANEL AND DOOR. PROVIDE CONDUIT AND WIRE AND CONNECT CONTROL CIRCUIT AND KEY OPERATED OVERRIDE SWITCH. CONTROL PANEL, DOOR HARDWARE, KEY OPERATED OVERRIDE SWITCH AND PADDLE SWITCHES ARE FURNISHED BY VENDOR AND INSTALLED BY DIVISION 26. INTERCONNECT WITH DOOR ACCESS SUCH THAT PADDLE SWITCHES CANNOT OVERRIDE DOOR ACCESS CONTROL. INSTALL PADDLE SWITCHES (2 TOTAL) IN LOCATION SHOWN ON ARCHITECTURAL PLANS.
3. CONNECT POWER TO UNIT VIA INTEGRAL DISCONNECT SWITCH.
4. PROVIDE DISCONNECT SWITCH AND CONNECT POWER TO UNIT. INSTALL REMOTE 2-BUTTON MOMENTARY SWITCHES AND CONNECT TO UNIT FOR UP/DOWN CONTROL. LABEL REMOTE SWITCH TO MATCH THE VEHICAL EXHAUST HOSE REEL NAME. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.

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Stillwater, MN 55082

ACOUSTICS CONSULTANT:
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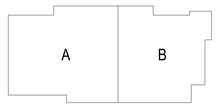
TRANSPORTATION CENTER



KEYPLAN

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

NO	DATE	ISSUED FOR
	02/27/2026	BID PACK #2
	12/22/2025	BID PACK #1

NO	DATE	REVISION
1	03/18/2026	BP2-ADDENDUM #1

I HEREBY CERTIFY that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:

Typed or Printed Name: Ryan J. Lindahl

Date: 02/27/2026 License Number: 46731

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PROJECT NAME:
ATCC-23 TRANSPORTATION CENTER

1601 Jefferson St,
Alexandria, MN 56308

DRAWING TITLE:
BUILDING SCHEDULES

DRAWN BY: MDR
CHECKED BY: RJL
PROJ. NO: R23-4822.000
DRAWING NO: **E602**

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