

**ADDENDUM  
NO. 02 (Rev)**

**February 28, 2025**

**Three Rivers Community Schools  
High School PAC Lighting and AV Upgrades  
700 Sixth Avenue  
Kalamazoo, MI 49093**

**TO: ALL BIDDERS OF RECORD**

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated October 8, 2024 by GMB + Engineering. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1 through ADD 2-2 and GMB + Engineering Addendum No 003 dated February 25, 2025, consisting of **REVISED** 3 pages.

**A. SPECIFICATION SECTION 00 20 00 – INFORMATION TO BIDDERS**

1. Bid Opening. Bid Date remains the same as Wednesday, March 5, 2025, at 2:00 PM, at Three Rivers Community Schools Administration Building, 851 Sixth Avenue, Three Rivers, MI, 49093.

# ADDENDUM



OWNER

**THREE RIVERS COMMUNITY SCHOOLS**

PROJECT

HIGH SCHOOL MUSIC AREA RENOVATION  
BID PACKAGE 2

A/E Project 5-5834

PURPOSE

**ADDENDUM 003**

THIS ADDENDUM SHALL FORM PART OF THE BIDDING DOCUMENTS. CHANGES, ADDITIONS, CLARIFICATIONS OR DELETIONS HEREIN SUPERSEDE THE DRAWINGS AND SPECIFICATIONS. BIDDERS SHALL INCLUDE ON THE PROPOSAL FORM ACKNOWLEDGEMENT OF THE RECEIPT OF THIS ADDENDUM.

ATTACHMENTS

**Reissued Sheets: E5.11**

ARCHITECT-ENGINEER

**GMB**

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CONSTRUCTION MANAGER

**THE SKILLMAN CORPORATION**

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## ***SHEET CLARIFICATIONS / REVISIONS***

ITEM NO. 1     SHEET E5.11 – LIGHTING FIXTURE, CONTROL, & ENERGY SCHEDULES  
(REISSUED)

Added manufacturer / catalog number approvals to the Lighting Fixture Schedule.

Table with columns: TYPE / TAG, DESCRIPTION, BASIS, EQUIVALENT #1, EQUIVALENT #2, EQUIVALENT #3, FINISH, MOUNTING, LIGHT SOURCE (MIN DELIVERED LUMENS, TYPE), DRIVER / BALLAST TYPE, INPUT VOLTAGE, INPUT POWER (W), NOTES. Contains rows C1 through L2 with detailed specifications for various lighting fixtures.

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

- A. MODEL NUMBERS GIVEN IN THIS SCHEDULE MAY NOT INCLUDE ALL OPTIONS AND ACCESSORIES AS NECESSARY TO MEET THE REQUIREMENTS OF THE DESCRIPTION AND SPECIFICATIONS.
B. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR EACH FIXTURE TYPE. COORDINATE WITH CEILING TYPES AND MOUNTING LOCATIONS.
C. ALL FINISHES SHALL BE CHOSEN FROM THE MANUFACTURER'S CATALOGS/STANDARD OPTIONS UNLESS OTHERWISE NOTED.
D. ALL INTERIOR LIGHT SOURCES SHALL HAVE COLOR RENDERING INDEX RATING OF 90 OR GREATER. ALL EXTERIOR LIGHT SOURCES SHALL HAVE COLOR RENDERING INDEX RATING OF 70 OR GREATER.
E. ALL FIXTURES SHALL BE SUPPLIED WITH UNIVERSAL VOLTAGE INPUT (100/277V) WHERE AVAILABLE FROM THE MANUFACTURER. VOLTAGE LISTED IN THE SCHEDULE IS INTENDED UTILIZATION VOLTAGE.
F. REFER TO THE PLAN DRAWINGS FOR LOCATIONS OF EMERGENCY-DUTY FIXTURES, INCLUDING FIXTURES WITH MULTIPLE CIRCUITS AND/OR EMERGENCY-DUTY SUBSECTIONS. ALL EMERGENCY-DUTY FIXTURES SHALL BE WIRED AND CIRCUITED PER NEC ARTICLE 700 RULES.
G. TO MAINTAIN A UNIFORM AND COORDINATED APPEARANCE ACROSS THE PROJECT, ONLY ONE APPROVED MANUFACTURER SHALL BE SELECTED FOR MULTIPLE FIXTURE TYPES AMONG WHICH A SIMILAR STYLE OR SERIES IS INTENDED. NON-COMPLIANCE SHALL BE JUDGED AT THE ENGINEER'S DISCRETION AND MAY REQUIRE CONTRACTOR'S REJECTION OF SOME TYPES WITHIN THE LIST OF APPROVED MANUFACTURERS.
H. A BREAK-OUT COST SHALL BE MADE AVAILABLE TO THE BIDDING CONTRACTORS FOR ANY FIXTURE TYPES WHICH LIST A SINGLE PRODUCT. THIS PRICING SHALL BE FURNISHED TO THE ARCHITECT/ENGINEER, CONSTRUCTION MANAGER, AND/OR OWNER UPON REQUEST.

LIGHTING FIXTURE SCHEDULE LINE ITEM NOTES:

- 1. EMERGENCY LIGHTING CONTROL DEVICES SHALL BE WIRED WITH SUPPLY FROM EMERGENCY LIGHTING CIRCUIT, AND FROM NORMAL UTILITY LIGHTING CIRCUIT, BOTH LINE AND LOAD SIDE OF RESPECTIVE CONTROL DEVICES) FOR THE LIGHTING CONTROL ZONE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. EMERGENCY LIGHTING UNIT EQUIPMENT INCLUDING BATTERY PACKS, EXIT SIGNS, INVERTERS, ETC. SHALL HAVE 5-YEAR MANUFACTURER WARRANTY. TEST SWITCH AND CHARGE INDICATOR LIGHT. PROVIDE UNSWITCHED HOT CONDUCTOR FROM RESPECTIVE LOCAL LIGHTING CIRCUIT TO THE BATTERY.
3. COORDINATE EXACT LOCATIONS OF FIXTURES TO UTILITY ROOMS WITH EQUIPMENT, DUCTWORK, PIPING, ETC. IN FIELD TO ACHIEVE UNIFORM ILLUMINATION.
4. FIXTURE INTENDED FOR EMERGENCY OPERATION ONLY (NORMALLY-OFF), DIMMING CONTROL WIRING NOT REQUIRED.
5. MOUNT FIXTURE OVER EXISTING BACKBOX RECESSED MASONRY WALL.
A. INTERIOR DIMENSIONS OF EXISTING BACKBOX APPROXIMATELY 6 3/4" X 4 1/2" HEIGHT NARROWS TOWARD REAR OF HOUSING.
B. FIELD-DEPENDENT RECESSED INSTALLATION DEPTH OF PRODUCT (INCLUDING DRIVER AND WIRING CONNECTIONS) WILL BE COMPATIBLE WITH EXISTING BOXES PRIOR TO ORDERING.
C. CONTRACTOR SHALL FURNISH AND INSTALL A WORKING MOCK-UP INSTALLATION OF INTENDED PRODUCT TO VALIDATE THE ACCEPTABILITY OF FIXTURE PRIOR TO ORDERING THE REST OF THE PROJECT UNITS. COORDINATE REVIEW OF THE INSTALLATION WITH ELECTRICAL ENGINEER.
6. EXISTING JUNCTION BOXES RECESSED IN SEATING END PANELS ARE SINGLE-GANG, 1 1/2" DEPTH.
A. FIELD-DEPENDENT RECESSED INSTALLATION DEPTH OF PRODUCT (INCLUDING DRIVER AND WIRING CONNECTIONS) WILL BE COMPATIBLE WITH EXISTING BOXES PRIOR TO ORDERING.
B. IF CONTRACTOR ELECTS TO SUPPLY A PRODUCT THAT DOES NOT FIT WITHIN THE EXISTING BOX, PROVIDE A PRE-FINISHED (BLACK COLOR) DEVICE BOX EXTENSION THAT WILL PERMIT THE NECESSARY RECESS DEPTH FOR THE FIXTURE, SIMILAR TO LEGRAND WIREMOLD CAT. NO. "BBOX4". BOX EXTENSION SHALL BE SAME HEIGHT/WIDTH OR LARGER THAN THE FIXTURE FACEPLATE AND SHALL NOT EXCEED 1 1/2" DEPTH.

LIGHTING CONTROL GENERAL NOTES:

- 1. ALL CONTROLLERS EXCEPT FOR LINE VOLTAGE WALL-BOX DEVICES NOTED SHALL BE DIMMING TYPE AND SHALL BE WIRED TO LIGHTING FIXTURES FOR FULL DIMMING CAPABILITY, REGARDLESS OF WHETHER BELIEVED DIMMING LIGHTING CONTROL IS REQUIRED BY LIGHTING CONTROL NARRATIVE SCHEDULE. THIS IS INTENDED TO ALLOW FOR "SOFT-RAMP" LIGHTING FADES (REFER TO DEFAULT TIMING VALUES) AND ALLOW FUTURE FLEXIBILITY OF PROGRAM MODIFICATION TO SUIT OWNER'S NEEDS OR FUTURE ENERGY CODE REQUIREMENTS.
2. PROVIDE CUSTOM ENGRAVING FOR ALL WALL CONTROL SWITCHES PER SPECIFICATION IN THE FOLLOWING LOCATIONS:
A. WHERE ADJACENT SWITCHES ARE ASSIGNED TO MORE THAN TWO LIGHTING CONTROL ZONES.
B. WHERE IT IS UNCLEAR TO THE USER FROM THE SWITCH LOCATION WHAT AREA/SPACE OR LIGHTING CONTROL ZONE IS ASSOCIATED WITH THE SWITCH.
3. CONTRACTOR SHALL SUBMIT PROPOSED CUSTOM ENGRAVING SCHEDULE FOR REVIEW WITH SHOP DRAWINGS.
4. PROGRAM DAY LIGHTING CONTROL AS INDICATED ON LIGHTING PLANS. DAY LIGHTING CONTROL NOT REQUIRED IN SPACES WHERE DAY LIGHTING ZONES AND/OR PHOTOSENSORS ARE NOT SHOWN.
5. SPACES WITH SINGLE POLE OR THREE-FOUR-WAY SWITCHES DO NOT REQUIRE AUTOMATIC SHUTOFF AND SHALL BE WIRED FOR SIMPLE ON/OFF CONTROL.
6. CONFIRM ALL SCHEDULE HOURS, WEEKENDS, DATES, VACATION DAYS, AND HOLIDAYS WITH OWNER PRIOR TO SYSTEM SETUP.
7. EACH INDIVIDUAL SWITCHING ZONE OF CONTROL SHALL HAVE INDEPENDENT BUTTON ON WALL SWITCH.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL PROGRAMMING INFORMATION.

LIGHTING CONTROL DEFAULT TIMING VALUES

- 1. AUTOMATIC OFF TIME DELAY AFTER SPACE VACANCY: 10 MINUTES
2. OCCUPANCY/VACANCY SENSOR GRACE PERIOD FOR RE-TRIGGER: 2 MINUTES
3. LIGHTING FADE UP TIME FROM "OFF" STATE: 1 SECOND
4. LIGHTING FADE DOWN TIME TO "OFF" STATE: 1 SECONDS
5. DAYLIGHTING RAMP UP TIME (AVAILABLE DAYLIGHT DECREASES): 10 SECONDS
6. DAYLIGHTING RAMP DOWN TIME (AVAILABLE DAYLIGHT INCREASES): 3 MINUTES

LIGHTING CONTROL INTENT NARRATIVE - SPACE SCHEDULE - PAC PHASE

Table with columns: SPACE ID, SPACE TYPE (ASHRAES 90.1 TABLE 9.6.1), CONTROL FUNCTION DESCRIPTIONS (ASHRAES 90.1 2013 REFERENCE), and LIGHTING POWER. Rows include CN-02 (Vestibule, Corridor), CN-10 (Seating, Performance Arts Theater), and CN-11 (Stage, Workshop).

INTERIOR LIGHTING POWER DENSITY (LPD) COMPLIANCE (SPACE-BY-SPACE METHOD) - PAC PHASE

Table with columns: SPACE ID, FLOOR AREA, ALLOWED LPD (TABLE 9.6.1), ALLOWED LIGHTING POWER, PROPOSED LIGHTING POWER, PROPOSED LPD, and NOTED EXEMPTIONS / ALLOWANCES / ADJUSTMENTS. Rows include G105 VESTIBULE, G109 VESTIBULE, G113 SEATING, G116 VESTIBULE, G117 STAGE, G118 VESTIBULE, G201 UPPER SEATING, and GRAND TOTAL.

LIGHTING CONTROL INTENT NARRATIVE (CIN) SCHEDULE table with columns: NARRATIVE ID, DESCRIPTION, LOCAL CONTROL (8.4.1 [a]), ON MODE (8.4.1 [b-d]), B LEVEL LIGHTING CONTROL (8.4.1 [e]), DAYLIGHT RESPONSIVE CONTROLS (8.4.1 [a-f]), OFF MODE (8.4.1 [g]), and ADDITIONAL NOTES. Rows include CN-02, CN-10, and CN-11.

