

ADDENDUM NO. 2

To the Contract Document and Project Specifications for the

BLACKHAWK MIDDLE SCHOOL SITE IMPROVEMENTS

Fort Wayne Community Schools (FWCS)

Fort Wayne, Indiana

October 17, 2025

To: All holders of the contract documents for the above project.

The items in this addendum are to become a part of the original documents as if included therein. The remainder of the original contract document is to remain in its entirety. This Addendum modifies the Contract Documents and Specifications as follows:

Part 1 – General Clarifications

Part 2 – Specifications

Part 3 – Construction Drawings/Details

Part 4 – Questions

PART 1 – GENERAL CLARIFICATIONS

1. None included

PART 2 – SPECIFICATIONS (Replace - See Attached)

1. 321723 Pavement Markings

REVISED: Entire specification section to provide clarity on pavement markings. Because of the number of revisions and for ease, please replace entire specification section.

PART 3 – CONSTRUCTION DRAWING / DETAILS (Replace - See Attached)

2. Plan Sheet G101 – General Notes

ADDED: Note 16 and 17 within the General Notes section to provide clarity on stormwater coordination requirements

ADVANCE.

15. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AN AS-BUILT SURVEY OF ALL IMPROVEMENTS INCLUDING BUT NOT LIMITED TO ALL UTILITY, ELECTRICAL & STORMWATER INFRASTRUCTURE IMPROVEMENTS, LIGHT LOCATIONS AS WELL AS FINISHED PAVEMENT LIMITS AND ELEVATIONS.

16. CONTRACTOR SHALL PROVIDE NOTICE OF THE START OF STORMWATER WORK AT LEAST TWO (2) BUSINESS DAYS PRIOR TO BEGINNING ANY STORMWATER WORK, TO IDEM AT (317) 233-1864 OR (800) 451-6027 (WITHIN INDIANA) AND CITY UTILITIES-DEVELOPMENT SERVICES AT (260) 427-5064 (DVS ADMIN DESK).

17. CONTRACTOR SHALL ACQUIRE CITY UTILITIES DEVELOPMENT SERVICES SPECIAL USE (TAPPING) PERMIT, PURCHASED BY THE CONTRACTOR AT NEW WATER & SEWER PERMIT OFFICE (200 E BERRY ST, SUITE 250, PHONE #(260) 427-1161 OR ON-LINE AT <https://citizenaccess.acfw.net/citizenaccess>).

DEMOLITION NOTES

1. ALL LANDSCAPE SHRUBS, TREES AND VEGETATION SHALL BE PROTECTED UNLESS OTHERWISE NOTED ON THE PLAN OR AS

REVISED: Note 5 within the Site Plan Notes to provide clarity on pavement markings.

SITE PLAN NOTES

1. ALL SITE IMPROVEMENTS ARE DIMENSIONED TO THE BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. RADII ARE MEASURED TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

2. TEMPORARY PROJECT IDENTIFICATION SIGNS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.

3. ALL SITE SIGNAGE SHALL BE AS SHOWN, OR AT THE OWNER'S DIRECTION.

4. INTERIOR TRAFFIC CIRCULATION SIGNS SHOWN FOR LOCATION ONLY - OWNER TO SELECT MATERIAL AND DESIGN.

 5. ~~PAVEMENT MARKINGS FOR~~ PARKING AND RESTRICTING AREAS SHALL BE AN APPLICATION OF TRAFFIC MARKING PAINT AS NOTED IN THE SPECIFICATIONS, AND OF SUFFICIENT APPEARANCE AS APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE. INSUFFICIENT PAVEMENT MARKINGS SHALL BE REDONE AS DEEMED NECESSARY BY THE OWNER OR OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. ALL LINES SHALL BE 4" WIDE (UNLESS OTHERWISE NOTED), STRAIGHT, EVENLY SPACED, AND UNIFORM IN LENGTH. PAVEMENT MARKING STENCILS SHALL BE PROVIDED BY OWNER.

6. ALL HANDICAPPED SIGNAGE SHALL COMPLY WITH THE STATE OF INDIANA'S BARRIER FREE DESIGN REQUIREMENTS AND THE AMERICANS WITH DISABILITIES ACT.

3. Plan Sheet C204 – Pavement Markings and Signage Plan

ADDED: General Note to provide clarity on pavement markings.

ALTERNATES:

 **ALTERNATE #1:** MILL AND RESURFACE PARKING LOT

ALTERNATE #2: SIDEWALK PANEL REPLACEMENT

NOTE:

CONTRACTOR SHALL APPLY PAVEMENT MARKING PAINT AS IDENTIFIED IN THE SPECIFICATIONS UTILIZING PAVEMENT MARKING STENCILS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH OWNER FOR FURTHER DETAILS ON THE STENCILS.

4. Plan Sheet C205 – Pavement Markings and Signage Plan

ADDED: General Note to provide clarity on pavement markings.

ALTERNATES:

 **ALTERNATE #1:** MILL AND RESURFACE PARKING LOT

ALTERNATE #2: SIDEWALK PANEL REPLACEMENT

NOTE:

CONTRACTOR SHALL APPLY PAVEMENT MARKING PAINT AS IDENTIFIED IN THE SPECIFICATIONS UTILIZING PAVEMENT MARKING STENCILS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH OWNER FOR FURTHER DETAILS ON THE STENCILS.

5. Plan Sheet C206 – Pavement Markings and Signage Plan

ADDED: General Note to provide clarity on pavement markings.



NOTE:

CONTRACTOR SHALL APPLY PAVEMENT MARKING PAINT AS IDENTIFIED IN THE SPECIFICATIONS UTILIZING PAVEMENT MARKING STENCILS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH OWNER FOR FURTHER DETAILS ON THE STENCILS.

PART 4 – QUESTIONS

1. I'm having a hard time finding a striping contractor that will agree to page G101. Under Site Plan Notes, note 5 states, "Pavement markings for parking and restricting areas shall be an application of traffic marking paint provided by the owner, and of sufficient appearance as approved by the owner or owner's representative." They would rather provide their own product, as they know it will work in their equipment and how it was stored. Please advise if using their own product will be acceptable.
 - A. *Please see updated plans included within this addendum noting that the Contractor is to provide pavement marking paint that matches the basis of design noted in specification Section 321723 – Pavement Markings. The Contractor is to apply the pavement markings using templates provided by FWCS. Please refer to revised plans and specifications for additional information.*

SECTION 321723 – PAVEMENT MARKINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 REFERENCE STANDARDS

- A. American Association of State Highway and Transportation Officials

1.3 SUMMARY

- A. This Section includes painted markings applied to asphalt pavement.
 - 1. AASHTO M247 - Standard Specification for Glass Beads Used in Pavement Markings.
- B. ASTM International:
 - 1. ASTM D34 - Standard Guide for Chemical Analysis of White Pigments.
 - 2. ASTM D126 - Standard Test Methods for Analysis of Yellow, Orange, and Green Pigments Containing Lead Chromate and Chromium Oxide Green.
 - 3. ASTM D562 - Standard Test Method for Consistency of Paints Measuring Krebs Unit (KU) Viscosity Using a Stormer-Type Viscometer.
 - 4. ASTM D711 - Standard Test Method for No-Pick-Up Time of Traffic Paint.
 - 5. ASTM D713 - Standard Practice for Conducting Road Service Tests on Fluid Traffic Marking Materials.
 - 6. ASTM D1301 - Standard Test Methods for Chemical Analysis of White Lead Pigments.
 - 7. ASTM D1394 - Standard Test Methods for Chemical Analysis of White Titanium Pigments.
 - 8. ASTM D1475 - Standard Test Method for Density of Liquid Coatings, Inks, and Related Products.
 - 9. ASTM D1640/D1640M - Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings.
 - 10. ASTM D2202 - Standard Test Method for Slump of Sealants.
 - 11. ASTM D2371 - Standard Test Method for Pigment Content of Solvent-Reducible Paints.
 - 12. ASTM D2621 - Standard Test Method for Infrared Identification of Vehicle Solids From Solvent-Reducible Paints.
 - 13. ASTM D2743 - Standard Practices for Uniformity of Traffic Paint Vehicle Solids by Spectroscopy and Gas Chromatography.
 - 14. ASTM D4280 - Standard Specification for Extended Life Type, Nonplowable, Raised Retroreflective Pavement Markers.
 - 15. ASTM D4505 - Standard Specification for Preformed Retroreflective Pavement Marking Tape for Extended Service Life.

- C. Indiana Department of Transportation Standards
- D. City of Fort Wayne Special Provisions

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review methods and procedures related to marking pavement including, but not limited to, the following:
 - a. Pavement aging period before application of pavement markings.
 - b. Review requirements for protecting pavement markings, including restrictions of traffic during installation period.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of manufactured material and product indicated.
 - 1. Include technical data including paint formulation and tested physical and performance properties.
 - 2. Indicate source and acceptance test results according to AASHTO M247.

1.6 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of state or local DOT for pavement-marking work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Section 016000 – Product Requirements: Requirements for transporting, handling, storing, and protecting products.
- B. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.
- C. Storage:
 - 1. According to manufacturer instructions.
 - 2. Paint:
 - a. Invert containers several days prior to use if paint has been stored more than two months.
 - b. Minimize exposure to air when transferring paint.
 - c. Seal drums and tanks when not in use.

D. Protection:

1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.
2. Provide additional protection according to manufacturer instructions.

1.8 AMBIENT CONDITIONS

- A. Section 015000 - Temporary Facilities and Controls: Requirements for ambient condition control facilities for product storage and installation.
- B. Do not apply materials if surface and ambient temperatures are outside temperature ranges required by paint product manufacturer.
- C. Do not apply exterior coatings during rain or snow if relative humidity is outside range required by paint manufacturer, or if moisture content of surfaces exceeds that required by paint manufacturer.
- D. Minimum Conditions: Do not apply paint if temperatures are expected to fall below 50 deg. F within 24 hours after application.
- E. Thermoplastic Compound: Do not apply unless pavement surface temperature is minimum 50 deg. F and rising.
- F. Maximum VOCs: Do not exceed limit required by State or Environmental Protection Agency.

1.9 WARRANTY

- A. Section 017700 - Execution and Closeout Requirements: Requirements for warranties.
- B. Furnish three-year manufacturer's warranty for pavement markings.

PART 2 - PRODUCTS

2.1 PAINTED PAVEMENT MARKINGS

- A. Manufacturers (basis of design):
 1. Sherwin Williams Hotline Waterborne Traffic Paints (TM2238 White / TM2239 Lead Free Yellow / TM2224 Blue)
 2. PPG / Ennis Flint EF Series (Fast Dry Waterborne Traffic Paint)
- B. Performance and Design Criteria:
 1. Paint Adhesion: Adhere to road, parking lot, or concrete surface, forming smooth continuous film one minute after application.
 2. Paint Drying: Tack free by touch as not to transfer by vehicle tires within ten minutes after application.

C. Paint:

1. Description: Ready mixed, conventional, fast-dry, waterborne traffic paints.
2. Lead-free and nontoxic.
3. Minimum Reflectance: 85 for white and 50 for yellow.
4. Properties:
 - a. Pigment Percent by Weight: 53% minimum.
 - b. Total Solids: 74% min.
 - c. Viscosity: 80-90 Kneb Units at 77 deg. F.
5. Grind:
 - a. Method: Hegeman Gage.
 - b. Minimum Field-Tested: 3 minimum.
6. Maximum Dry-Through Time:
 - a. 120 minutes.
 - b. Wet Film Thickness: 15 mils 90 percent relative humidity and 72 deg. F.
 - c. Comply with ASTM D1640/D1640M.
7. Maximum VOC Content: 150 g/l.

2.2 APPLICATION EQUIPMENT

A. Paint Gun:

1. Description: Simultaneously apply parallel lines of indicated width in solid or broken patterns or various combinations of those patterns.
2. Type: Dual nozzle.

B. Bead Gun:

1. Description: Automatically dispense glass beads onto painted surface at required application rate.
2. Type: Pressurized.

C. Measuring Device: Automatically and continuously measure to nearest foot length of each line placed.

D. Paint Heater: Capable of heating paint to 110 deg. F for fast-dry applications.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Section 017000 - Execution and Closeout Requirements: Requirements for application preparation.
- B. Do not apply paint to concrete surfaces until concrete has cured for 28 days.
- C. Agitate paint for 1 to 15 minutes prior to application to ensure even distribution of pigment.
- D. Maintenance and Protection of Traffic:
 - 1. Provide short-term traffic control as specified in Section 015000 - Temporary Facilities and Controls.
 - 2. Prevent interference with marking operations and prevent traffic on newly applied markings before dry.
 - 3. Maintain travel lanes as required by FWCS when located within the property and between 7:00 AM and 9:00 AM and between 4:00 PM and 6:00 PM when located within the right-of-way.
 - 4. Maintain access to the school and other properties requiring access (as applicable).
- E. Surface Preparation.
 - 1. Clean and dry paved surfaces prior to painting.
 - 2. Blow or sweep surface free of dirt, debris, oil, grease, or gasoline.
 - 3. Spot location of final pavement markings, as specified and as indicated on Drawings, by applying pavement spots 25 feet o.c.
 - 4. Request inspection by Architect/Engineer after placing pavement spots and minimum three days prior to applying traffic lines.
 - 5. Do not apply pavement marking paint until layout, colors, and placement have been verified with Engineer.
 - 6. Allow paving to age for a minimum of 30 days before starting pavement marking (Owner may waive 30 day requirement upon request).

3.2 DEMOLITION

- A. Remove existing markings in an acceptable manner, using methods that will cause least damage to pavement structure or surface.
- B. Do not remove existing pavement markings by painting over with blank paint.
- C. Repair pavement or surface damage caused by removal methods.
- D. Clean and repair existing, remaining, or reinstalled lines and legends as noted on plans.

3.3 APPLICATION

- A. Do not place permanent paint or tape markings if ambient or pavement temperature is below 50 deg. F.
- B. Application Rate:
 - 1. Paint: 100 sq. ft./gal.
- C. Painting:
 - 1. Verify that pavement is dry and in suitable condition to begin pavement marking according to manufacturer's written instruction. Proceed with pavement marking only after unsatisfactory conditions have been corrected.
 - 2. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges.
 - 3. Apply graphic symbols and lettering with templates provided by FWCS firmly secured to pavement (FWCS will provide one [1] set of templates for pavement markings). Mask an extended area beyond edges of each stencil to prevent paint application beyond template. Apply paint so that it cannot run beneath the template.
 - 4. Prevent splattering and overspray when applying markings.
 - 5. Paint Guns: Simultaneously apply paint binder at uniform specified rates.
 - 6. Dispense at ambient temperature.
- D. Dimensions and Locations: As indicated on Drawings.
- E. Crosswalks, Intersections, Stop Lines, Legends
 - 1. Use walk-behind stripers, hand spray, or stencil trucks.
 - 2. Do not use hand brushes or rollers.
- F. Installation Standards: Install Work according to State of Indiana Department of Transportation standards.

3.4 TOLERANCES

- A. Maximum Variation from Wet Film Thickness: 1 mil
- B. Maximum Variation from Wet Paint Line Width: Plus or minus 1/8 inch
- C. Automatic Line-Length Gages: Plus or minus 25 ft./mi.
- D. Cycle Length Timer: Plus or minus 6 in./40 ft.
- E. Paint Line-Length Timer: Plus or minus 3 in./10 ft
- F. Paint Guns: Plus or minus 1 mil

3.5 FIELD QUALITY CONTROL

- A. Inspect for incorrect location, insufficient thickness, line width, coverage, retention, uncured or discolored material, and insufficient bonding.
- B. Acceptance:
 - 1. Repair lines and markings which after application and curing do not meet following criteria:
 - a. Incorrect location.
 - b. Insufficient thickness, width, coverage, or retention.
 - c. Uncured or discolored material.
 - d. Insufficient bonding.

3.6 CLEANING

- A. Section 017000 - Execution and Closeout Requirements: Requirements for cleaning.
- B. Collect and legally dispose of residues from painting operations.
- C. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by Manufacturer of affected construction.
- D. Templates provided by FWCS must be cleaned and returned in good condition. If replacing FWCS templates, they must match.

3.7 PROTECTION

- A. Section 017000 - Execution and Closeout Requirements: Requirements for protecting finished Work.
- B. Protect pavement markings from damage and wear during remainder of construction period.
- C. Protect painted pavement markings from vehicular and pedestrian traffic until paint is dry and track free.
- D. Unless material is track free at end of paint application convoy, use traffic cones to protect markings from traffic until track free.
- E. If vehicle crosses a marking and tracks it, or if splattering or overspray occurs, eradicate affected marking and resultant tracking and apply new markings.
- F. Follow manufacturer instructions or use minimum of 30 minutes of dry time.
- G. Barrier cones are satisfactory protection for materials being dried.

3.8 MAINTENANCE

- A. Section 017000 - Execution and Closeout Requirements: Requirements for maintenance service.
- B. Provide service and maintenance of traffic paints for three years from date of Substantial Completion.

END OF SECTION