

**CITY OF KALAMAZOO**

**SPECIAL PROVISION**

**FOR**

**NON-MOTORIZED POST**

COK

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1/15/2024

- a. Description.** This work shall consist of installing non-motorized flexible posts to delineate and bring attention to non-motorized facilities.
- b. Materials.** City Post ® EAC (Embedded Anchor Cup), by PEXCO, shall be used in the color white with green reflective tape. Height of the posts shall be consistent and be 28” in height, unless approved otherwise by the Engineer. Epoxy/Adhesive shall comply with manufacturer recommendations and installation instructions provided by PEXCO/TAPCO.
- c. Construction.** Install City Post ® EAC posts and anchors in accordance with manufacturers recommendation. Care shall be taken to not let excess epoxy seep out and incidentally glue the removable bollard in place. The contractor shall inspect each bollard after time is provided for epoxy to fully cure and ensure they can be removed and replaced for maintenance purposes. Spacing shall be at the direction of the Engineer and as shown on the plans.
- d. Measurement and Payment.** The completed work as measured for installation of the City Post ® EAC posts and anchors will be paid for at the following contract item (pay item). The price shall be payment in full for furnishing all necessary labor, equipment, and materials.

**Pay Item**

**Pay Unit**

Non-Motorized Post, Special

EA

**CITY OF KALAMAZOO**

**SPECIAL PROVISION**

**FOR**

**GREEN PAVEMENT MARKINGS**

COK

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1/15/2024

- a. Description.** This work shall consist of installing Endurablend™ green pavement markings in the City of Kalamazoo, MI, to delineate and bring attention to non-motorized facilities.
  
- b. Materials.** Endurablend™ green colored pavement markings shall comply with FHWA Interim Approval 14 and the design of green colored pavements therein. Markings applied to the roadway should be of materials that will minimize loss of traction for bicyclists (see Paragraph 4 of Section 3A.04 of the 2009 MUTCD).
  
- c. Construction.** Before applying Endurablend™ green pavement markings, ensure the pavement is swept and free of dirt and debris, is clean and dry, and pavement temperature is 40 degrees and rising. Ensure that all equipment and templates match MDOT approved sizes and standards or have had Engineer approval before use. Retroreflective beads/paint should be used at the application rate specified for the type of pavement marking being used or as approved by the Engineer.
  
- d. Measurement and Payment.** The completed work as measured for Green Pavement Markings will be paid for at the following contract items (pay items). The price shall be payment in full for furnishing all necessary labor, equipment, and materials.

<b><u>Pay Item</u></b>	<b><u>Pay Unit</u></b>
Pavt Mrkg, 6 Inch, Green, Long	FT
Pavt Mrkg, 12 Inch, Green, Crosswalk	FT

**SPECIAL PROVISION**

**FOR**

**MAINTAINING TRAFFIC**

COK

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1/15/2024

**a. Description.** This work shall consist of maintaining construction zone traffic and placing traffic control devices for 2024 Cycle Track Pilots Project and any affected side streets as described in this special provision and as directed by the Engineer in the City of Kalamazoo, Michigan.

i. Lovell Street:

1. Close northern travel lane & parking area. Remove pavement markings, signs, and all items in accordance with plans. Place new pavement markings, non-moto buffers and posts, signs, and signs for the pilot project.
2. Maximum lane closure length shall be no greater than 15 business days.

ii. Stadium Drive:

1. Close northern travel lane and shoulder. Place new pavement markings, non-moto buffers and posts, signs, and signs for the pilot project.
2. Maximum lane closure length shall be no greater than 5 business days to place the pavement markings and non-motorized buffer. Work can continue in the shoulder area for signs and pilot pavement markings as required.

iii. OPTION - Portage St:

1. Complete work using lane closures, traffic shifts, and under traffic as required.
2. One through-lane in each direction should remain open at all times.

**b. Materials.** Provide material in accordance with Sections 812 and 922 of the Michigan Department of Transportation (MDOT) Standard Specifications for Construction.

**c. Storage of Materials.** Location for storage of materials shall be addressed by the contractor in the City ROW permit and approved by the Engineer prior to the

commencement of work. All maintenance of traffic materials shall be stored in the approved location(s). Any items not stored in the proper location shall be corrected no later than 24 hours after notice is given by the Engineer. Items found not stored in the approved locations or not corrected within the allotted time shall be grounds for the City to withhold payment for maintenance of traffic until corrected.

- d. Construction.** Traffic shall be maintained according to Chapter 6 of the Michigan Manual on Uniform Traffic Control Devices (MMUTCD) Guide to Sections 104.07, 104.11, 812, and 922 of the MDOT Standard Specifications for Construction, including any Supplemental Specifications, and as specified here.
- i. The Contractor shall notify the Project Engineer a minimum of two (2) weeks prior to any road closures or detours, and 72 hours prior to the implementation of any shoulder closures or lane closures.
  - ii. The Contractor shall coordinate his operations with Contractors performing work on other projects within or adjacent to the Construction Influence Area (CIA).
  - iii. City of Kalamazoo (City), maintenance crews and/or Contract Maintenance Agencies may perform maintenance work within or adjacent to the CIA. The City and/or Contract Maintenance Agency will coordinate their operations with the Engineer to minimize the interference to the Contractor. No additional payment will be made to the Contractor for the joint use of the traffic control items.
  - iv. The Contractor shall provide a traffic control plan for each phase of the project to the Engineer for approval by the Traffic Safety Department and the Engineer prior to beginning work requiring traffic control. The traffic control plan shall include all temporary signage, type II barricades, type III barricades, plastic drums, etc. and appropriate temporary pavement markings where needed.
  - v. Construction Influence Area (CIA). The CIA shall include the right-of-way of the following roadways, within the approximate limits described below:
    1. Lovell St – From 50' West of the Stadium Drive intersection through the intersection of Pitcher St and any intersecting cross street and drive entrance.
    2. Stadium Drive – From City Limit at the Rambling Rd intersection to 50' West of the Howard St intersection and any intersecting street or drive entrance.

3. OPTION – Portage St – From the South Town intersection to 50' North of the intersection with South St and any intersecting cross streets or drive entrances.
- vi. Traffic Restrictions and Construction Requirements.
1. All work shall be conducted during daytime hours unless otherwise specified herein or approved by the Engineer. Night work may be permitted at the discretion of the Engineer. However, any additional cost for such work shall be borne by the Contractor.
  2. Access for construction vehicles between the travel lanes and work areas will be restricted to specific locations. The number of access points and their locations will require the prior approval of the Engineer.
  3. Undercuts or excavations immediately adjacent to active traffic lanes shall be restored to no less than a 1 on 4 slope at the end of each working period unless otherwise approved by the Engineer. Fencing shall be required to protect open trenches during non-working hours and shall be provided by the Contractor as part of the trenching item utilized.
  4. Duration of driveway and alley closures shall be minimized. Contractor shall provide property owners with written notice a minimum of three (3) business days prior to the anticipated driveway and alley closure, and shall inform residents of the anticipated duration of the driveway or alley closure.
  5. The Contractor shall maintain and coordinate daily waste pickup and deliveries to all business buildings affected by driveway, alley and road closures for this project.
  6. Sidewalks or pathways in the project area shall be maintained at all times except in areas where sidewalk or pathway removal and replacement are ongoing. Sidewalk or pathways removed shall be replaced as soon as is feasibly possible.
  7. Ingress and egress to all buildings and parking areas for pedestrians and vehicles shall be maintained.
  8. Keep all side streets and alleys free of construction related materials, equipment, and activities to allow clear visibility and access to all properties and businesses.

9. Contractors, employees, and subcontractors shall not park vehicles or store equipment in areas that are needed for residential or adjacent commercial parking and at no time shall vehicles be parked or equipment stored on private property unless written permission is obtained from the property owner. Also, Contractors, employees and subcontractors shall not drive construction equipment of any kind on private property without written permission of the property owner.
  10. Construction equipment and material storage shall not be allowed on top of existing areaways, pathways or sidewalks.
  11. Street name signs shall be maintained within the construction area for the duration of the project. Street name signs shall be visible from all intersection corners. If the existing street name sign and support are to be removed, and there is no alternate support available, the Contractor shall erect a separate post & street name sign for this purpose. The cost for this work shall not be paid for separately but considered incidental to the pay items included for maintaining traffic.
  12. Removing, obstructing, relocating or otherwise tampering with a regulatory traffic sign is prohibited unless approved by the Engineer and the City Traffic Safety Department. Where a conflict is foreseen or encountered, the sign(s) may be removed by the Contractor only upon installation of temporary signs(s) placed in accordance with the Michigan Manual of Uniform Traffic Control Devices (MMUTCD) at location(s) approved by the Engineer. Temporary signs shall be maintained by the Contractor until the existing permanent signs are reinstalled. The cost for this work shall be incidental to the pay items included for maintaining traffic.
- vii. Traffic Control Devices.
1. General
    - a. All traffic control devices and their usage shall conform to the most current revision of Part 6 of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD).
  2. During non-working periods, any work site with uncompleted work shall have advance signs (W21-4 - "Road Work Ahead") and plastic drums, at specific locations, as directed by the Engineer.

### 3. Temporary Signs

- a. Tables for “L”, “D” and “B” values are provided in MDOT Traffic and Safety Figure M0020a.
- b. Long term (greater than 60 days) temporary signs shall be on ground driven sign supports as shown in MDOT Traffic and Safety Figure WZD-100-A.
- c. The signing for a one or two lane closure and traffic shift shall be as shown in the MDOT Traffic and Safety Figure M0240a and M0120a.
- d. All diamond-shaped warning signs shall be 48 inch x 48 inch mounted at a 7 foot minimum bottom height in curbed or pedestrian areas.
- e. Distances between construction warning, regulatory and guide signs shown on the Figures are approximate and may require field adjustment, as directed by the Engineer.
- f. All temporary signs shall be constructed with legends and symbols flush to the sign face and not extending beyond the sign borders or edges.
- g. All temporary signs shall be faced with prismatic retroreflective sheeting.
- h. If necessary, the City will provide temporary neighborhood business signage (sign board only) for the purpose of directing the public to the various businesses within the Construction area. The Contractor shall be responsible for the installation, maintenance, and relocation of these signs as necessary to coincide with the various phases of the project. If included in the contract, the cost to install, maintain, and relocate these signs will be paid for under the item “Install and Maintain Temporary Neighborhood Business Signs”.
- i. Whenever a lane or obstruction is removed, all related construction signs shall be removed, turned away from traffic or otherwise made not visible to traffic.

### 4. Channeling Devices

- a. Channeling devices required for maintaining one lane of traffic in each direction shall be Channelizing Device, 42 inch.
- e. Measurement and Payment.** The completed work shall be paid for at the contract unit price which shall include all materials, equipment and labor required to complete this work. Pay items are listed in the contract and invitation for bid documents.

**CITY OF KALAMAZOO**

**SPECIAL PROVISION**

**FOR**

**NON-MOTO BUFFER**

COK

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1/15/2024

- a. Description.** This work shall consist of installing a surface mount, bolt-in style, curb system to delineate and provide added protection to non-motorized facilities.
- b. Materials.** The contractor shall provide a surface mount curb system with a nominal length of six (6) feet, width of six (6) inches, and height of four (4) inches, from one of the approved sources as listed below. The curb system shall be provided with lag bolt and anchor hardware. Mounting spikes shall not be used.
- a. RubberForm Recycled Products, LLC, “Rubber Wheel Stops”, Model: RF-PLWS-WHT
  - b. U.S. Barricades, “Parking Lot Wheel Stops”, White, Product Code: PARD36
  - c. American Recycled Products, “Parking Lot Wheel Stop”, White, Model: PWS38WHTDS
  - d. IdealShield®, “CURBIE Parking Curb”, Rubber Parking Block in White

If another source is desired, please provide material data sheets, specifications, source, and any applicable drawings to the Engineer for approval. Use of other products other than those listed above is not authorized without prior approval from the Engineer.

- c. Construction.** Install the surface mount curb system using lag bolts and anchor hardware in accordance with manufacturers recommendation. Mounting spikes of any kind shall not be used. Nominal spacing between each curb system should be nominally 20’ on-center for the Lovell St Pilot Cycle Facility and 50’ on-center for the Stadium Drive Pilot Cycle Facility. Ensure drives and access points are not blocked.

Ensure that the curb system is tight to the road surface without being overtightened. Place the curb system just to the outside of any edge striping so as to permit future pavement marking placement. Placement shall be within one (1) to four (4) inches from the edge line pavement markings to the front edge of the curb system’s long side.

- d. Measurement and Payment.** The completed work as measured for installation of curb system will be paid for at the following contract item (pay item). The price shall be payment in full for furnishing all necessary labor, equipment, and materials.

**Pay Item**

**Pay Unit**

6’ Non-Moto Buffer, Special

EA



*CITY OF KALAMAZOO*

*SPECIAL PROVISION*

*FOR*

*PROGRESS CLAUSE*

COK

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1/15/2024

- a. The Contractor shall submit a complete, detailed and signed, Progress Schedule, to the Engineer, utilizing MDOT form number 1130.
- b. The progress schedule shall include, at a minimum, the controlling work items for the completion of the project and the planned dates of the work items that will be the controlling operations. All contract dates including open to traffic, project completion, interim completion and any other controlling dates in the contract must be included in the progress schedule.
- c. After receiving Notice of Award, start work within 10 calendar days after award or on a date approved by the Engineer. In no case, may any work be commenced prior to receipt of formal notice of award by the City.
- d. The project must be open to traffic, including final site restoration, permanent pavement markings and signs, punch-list, and/or project clean-up on or before **June 14, 2024**
- e. Once started, the project shall be substantially completed within **30 calendar days** from the date of commencement.
- f. After award, and prior to the start of work, the Contractor must attend a preconstruction meeting with the Engineer. The Engineer will determine the day, time and place for the preconstruction meeting. The meeting will be conducted after project award and may be rescheduled if there are delays in the award of the project. The named subcontractor(s) for, Designated and/or Specialty Items, as shown in the proposal, is/are recommended to be at the preconstruction meeting if such items materially affect the work schedule.
- g. Liquidated Damages shall be assessed in accordance with Section 108.10 of the MDOT Standard Specifications for Construction.
- h. The Contractor may be required to meet for a post-construction review meeting, as directed by the Engineer. The Engineer will schedule the meeting.
- i. Failure on the part of the Contractor to carry out the provisions of this Progress Clause may be considered sufficient cause to prevent bidding future projects with the City.

***CITY OF KALAMAZOO***

***SPECIAL PROVISION***

***FOR***

***RELATIONS AND RESPONSIBILITY TO THE PUBLIC***

COK

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1/15/2024

- a. Description.** The contractor shall notify the engineer when the first day of construction is planned no less than 10 business days prior to the start of the work. Following this correspondence, the City will issue a press release, media notice or other general form of notification to all the city's residents of the planned work. No work shall be performed prior to the issuance of this notice.

Additional notification shall be provided to the residents directly affected via door hanger notices no less than 72 hours before their street is planned to receive work. The contractor will provide preprinted door hanger material to carry the contractor's message. Message content must be approved by the engineer prior to printing and distribution. The responsibility for filling out the door hangers and distributing them will be the contractor's. Payment for this work will not be paid separately, but payment will be considered as having been included in the contract unit prices bid for other contract items. No work shall be performed prior to the distribution of these door hangers.

24 hours before every construction operation that will substantially affect a resident or business adjacent to the project site, (such as driveway closures, mailbox relocation, etc.) the contractor will notify residents or businesses affected. The contractor shall assist the City in coordination of work and mitigating impacts to the extent possible while maintaining construction schedules and ensuring project completion.

**CITY OF KALAMAZOO**

**SPECIAL PROVISION**

**FOR**

**WATERBORNE SPECIAL PAVEMENT MARKING**

COK

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1/15/2024

- a. **Description:** This work consists of providing and applying waterborne or regular dry retroreflective pavement markings in accordance with Section 811 of the Michigan Department of Transportation (MDOT) Standard Specifications for Construction and the Michigan Manual on Uniform Traffic Control Devices (MMUTCD).
- b. **Materials:** Waterborne, Low Temperature Waterborne, or Regular Dry in accordance with the seasonal limitations and minimum air temperatures from Section 811 of the MDOT Standard Specifications for Construction, Table 811-2.
- c. **Construction:** Apply pavement markings in accordance with the MDOT Standard Specifications for Construction, MMUTCD, and the MDOT Pavement Marking Standard Details (PAVE-XXX-X).
- d. **Measurement and Payment:** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

<u>Unit Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
8117001	6" Crosshatch, White	Each

Pay item includes all equipment and labor required to complete the pavement markings in accordance with the MDOT Standard Specifications for Construction, MMUTCD, and the MDOT Pavement Marking Standard Details.