

Town of Berry

Highway Construction Specifications

GENERAL

All contracting procedures work and materials supplied under this proposal shall conform to the Standard Specifications for Highway and Structure Construction, 2006 edition of the Wisconsin Division of Highways, Department of Transportation. The special provisions in this proposal shall supplement and take precedence over the above-mentioned specifications.

The Town of Berry, the issuer of this bid proposal, shall hereinafter be referred to as "the owner".

INSURANCE

The contractor shall furnish and deliver to the owner a certificate of insurance for worker's compensation and an umbrella certificate of liability and property insurance in the minimum amount of three million dollars before beginning work, and shall notify the owner immediately of any cancellation or change in insurance coverage.

TRAFFIC CONTROL

The contractor will be responsible for all traffic control, including furnishing and maintaining all signs, flags, flag-persons, barricades and lights where required, to protect the safety of the traveling public, all in accordance with the Manual on Uniform Traffic Control Devices currently adopted by the FEDERAL HIGHWAY ADMINISTRATION and the WISCONSIN DEPARTMENT OF TRANSPORTATION supplement. All work will be done under traffic unless otherwise directed by the owner.

COMPLETION

All work is to be completed prior to October 15.

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BASE PATCHING

This item shall consist of supplying, preparation, placement and compaction of asphaltic mixture in accordance with Sections 390.3.1 and 390.3.3 of WisDOT Standard Specifications.

The limits and nature of this item will be determined by the owner and transmitted to the contractor prior to bid opening.

The basis of payment for this item shall be either by lump sum or per ton.

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GRAVEL SHOULDERING

- A. This item shall consist of supplying, placement and compaction of a dense graded compacted base course composed of one or more courses or layers of course 3/4" aggregate, either crushed gravel or crushed stone. The width of the shoulders shall be 2 feet and the nominal thickness of the compacted shoulder shall be 3 inches. All shouldering shall be watered down for better compaction, rolled with a rubber tired roller and the road surface shall be sweep clean of loose aggregate.
- B. Base or shoulder material shall be in conformance with Section 305 of WisDOT Standard Specifications. Materials shall conform to gradation; 3/4 inch max.
- C. Basis of payment shall be the contact unit price per TON for Dense Graded Base.
- D. Payment will be made only for supplied material accompanied by a ticket containing the following information.
1. Ticket number, date, and time
 2. Type of material
 3. Net weight

Copies of the tickets shall be given to the owner. All base course must have weight tickets from a certified scale.

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CRACK ROUTING AND SEALING

- A. The work shall consist of furnishing all materials, equipment and labor for routing, cleaning and sealing of cracks and longitudinal joints in asphalt pavement.
- B. All cracks and open joints must be routed and blown clean. The road surface shall also be blown clean of routed debris. A heat lance shall be used to dry and clean all cracks. All cracks shall be pressure filled by a wand application from the bottom up. They shall be slightly overfilled and squeegeed to create an overband 1" wide on each side of the routed crack. The sealant shall be allowed to cure before opening to traffic. If necessary, the sealant may be dusted with fine sand or covered with tissue paper to prevent tracking.
- C. The sealant material must be a single component, hot pour petroleum based product and must meet the requirements of ASTM D3405 or ASTM D1190 with crumb rubber. Sealant must have proven ability to remain flexible in winter conditions. Sealing shall only be done when weather conditions are dry and the pavement temperatures is above 40°F. Application must follow manufacturer temperature and weather recommendations.
- D. The equipment used for routing shall consist of radial located steel cutters on a circular cutting head. It must be capable of cutting a uniform and consistent reservoir with vertical sides and flat bottom and capable of following straight or random cracks. The air compressor must be designed to prevent oil and water from entering the lines. The equipment for heating the sealant must be oil jacketed, double boiler type, with agitation and re-circulation systems.
- E. Payment for crack routing and sealing shall be by the pound of sealant. This shall be full compensation for routing, cleaning, drying cracks, blotting sealant, removing debris, and furnishing all labor materials, equipment and incidentals necessary to complete the work.

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SEAL COAT

- A. Seal coat shall be in conformance with section 475, WisDOT Standard Specifications. This item shall consist of supplying and placement of a single application asphalt seal coat with 3/8" cleaned and washed cover aggregate (pea gravel or lime stone chips) to a previously completed pavement surface in accordance with the specifications and as shown on the plans or established by the owner.
- B. Immediately prior to applying the asphalt material, the existing surface shall be thoroughly cleaned of all loose material, dust, salt, vegetation and other objectionable material. Particular care shall be taken to thoroughly clean the outer pavement edges and intersections.
- C. Asphalt used for seal coat shall be Type HFRS-2P, applied in a uniform and sufficient quantity to seal the pavement surface and bond 3/8" washed cover aggregate to seal coat surface. The asphalt distributor shall have instrumentation and controls to monitor and alter the asphalt application rate and temperature. A hose and nozzle attachment to the distributor shall be used for hand application to inaccessible areas.
- D. At the desired stage of tackiness, the cover aggregate shall be applied uniformly over the asphalt material. The aggregate shall be immediately rolled with pneumatic tire rollers until thoroughly embedded in the asphalt material.
- E. Within two weeks after completion of the application of cover aggregate, all loose aggregate shall be swept or vacuumed from the traveled portion of the roadway onto the shoulder unless notified differently by the owner. This includes the entire road surface and intersections.
- F. Traffic control shall be provided by the contractor to maintain safety, minimize distress to the fresh asphalt seal coat and allow access to property during construction and curing.
- G. Basis of payment shall be by square yard.

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SLURRY SEAL COAT

- A. Slurry seal shall be in conformance with Recommended Performance Guidelines A105 (revised) for Emulsified Asphalt Slurry Seal, March 1998 by the International Slurry Surfacing Association (ISSA). This item shall consist of furnishing all materials, equipment and labor necessary for the application of a polymer modified emulsified asphalt slurry seal as directed by the owner.
- B. Immediately prior to applying the slurry material, the existing surface shall be thoroughly cleaned of all loose material, dust, salt, vegetation and other objectionable material. Particular care shall be taken to thoroughly clean the outer pavement edges and intersections.
- C. The slurry seal shall be ISSA Type II. The slurry seal surface shall consist of a mixture of emulsified asphalt, mineral aggregate and water; properly proportioned, mixed and spread evenly on the surface as specified. The cured slurry seal shall have a homogenous appearance, fill all cracks, adhere firmly to the surface and have skid resistant texture.
- D. The equipment shall be a self-propelled slurry seal mixing machine. It shall be able to accurately deliver and proportion all components on a continuous flow basis. The mixture shall be spread uniformly by a spreader box equipped to agitate and uniformly spread the material. Slurry seal shall be spread by means of a hand squeegee in areas where the spreader box can not be used.
- E. Traffic control shall be provided by the contractor to maintain safety, minimize distress to the fresh slurry seal and allow access to property during construction and curing.
- F. Basis of payment shall be by square yard.

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ASPHALT CONCRETE

CONSTRUCTION PROCEDURES

Surfacing. Asphalt concrete construction shall conform to Section 460 of the WisDOT Standard Specifications. The nominal thickness of the asphaltic concrete pavement shall be 3 inches. It shall consist of a nominal 1 inch "binder" course and a nominal 2 inch thick surface course. Wedging may be required in areas where substantial leveling is needed. Wedging shall be done as directed by the owner after project review with the contractor.

Tack Coat. A tack coat is required to be applied to existing surface prior to overlay. The final sweeping and surface cleaning shall be done by the paving contractor just ahead of paving and this cleaning shall be considered incidental cost to the paving.

Intersections. All Town and County intersections shall be "butt cut" a minimum of two inches for a proper joint with the adjoining roadway. Private driveways may be decided on an individual basis by the owner.

PRODUCTION

The contractor shall provide adequate trucks and paving train equipment to assure a continuous paving operation and avoid frequent delays.

After the asphaltic concrete paving has started, the contractor shall proceed to complete the project at the earliest possible date. If the contractor should determine it necessary to stop the paving operation, the contractor shall make a request to the owner for permission to stop work.

ASPHALTIC CONCRETE PAVEMENT MATERIALS SHALL BE MIX TYPE E-0.3

The asphalt cement shall be performance graded **PG 58-28**. The contractor shall provide a current mix design that will be used on the project.

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Asphaltic Concrete Basis Of Payment When By The Ton

An asphaltic pavement mixture of the type or types included in the contract shall be measured by the ton of mixed aggregates and bituminous material laid and compacted in place. The price shall be full compensation for producing, furnishing, and placing all materials including asphalt cement, and for all labor, tools, equipment, testing and incidentals necessary to complete the work.

Payment will be made only for supplied material accompanied by a ticket containing the following information.

1. Ticket number, date, and time
2. Type of material
3. Net weight

Copies of the tickets shall be given to the owner. Load tickets must be from a certified scale.