

MEMO

Board of County Road Commissioners
Saginaw County, Michigan
3020 Sheridan Avenue
Saginaw, Michigan 48601

January 3, 2019

To: Planholders for 2019
Autumn Ridge Subdivision HMA Removal and Paving Project
Along Autumn Ridge, Autumn Ridge South, Autumn Ridge North, Oakbrook Drive,
Summerwood Lane and Brookstone Drive West
Saginaw Twp (SCRC #190001)

Saginaw County Road Commission

From: Engineering Department
Saginaw County Road Commission

Transmitted herewith is Addendum Number 1 (one) for the above referenced project.

Board of County Road Commissioners
Saginaw County, Michigan

ADDENDUM NUMBER ONE

Bidders are informed that the Plans, Specifications, and Contract Documents dated December 6, 2018 have been revised for the 2019 Autumn Ridge Subdivision HMA Removal and Paving Project along Autumn Ridge, Autumn Ridge South, Autumn Ridge North, Oakbrook Drive, Summerwood Lane and Brookstone Drive West in Saginaw Twp (SCRC #190001)

1. **Special Provision for Manhole Cover Collars** (dated 11/14/2016) on pages 30-31 of the Proposal are deleted and the attached revised Special Provision for Manhole Cover Collars (dated 01/03/2019) are added to the contract.

The special provision was revised to delete requirement that material of thermoplastic molding (forms) must be MDOT approved. Specifications were added including physical, thermal and other properties for the thermoplastic concrete forms. Form system must also be WHIRLyGIG Manhole Riser Collar System or Equal.

Include this Addendum in your Contract Documents and acknowledge receipt thereof in the Itemized Bid Form.

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SPECIAL PROVISION
FOR
MANHOLE COVER, COLLAR

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a. Description. Around existing and proposed storm sewer, sanitary sewer, and water main manholes within the paved surface, after the top course of HMA has been placed, the Contractor shall install concrete collar as described below, and as shown in the plans. Work shall in accordance with Sections 403 & 601 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, or as modified herein.

b. Materials. The materials shall be in accordance with Sections 403 and 601 of the Michigan Department of Transportation 2012 Standard Specifications for Construction.

Concrete shall be Grade P1.

Thermoplastic concrete forms shall be WHIRLyGIG Manhole Riser Collar System or other approved equal meeting ASTM standard specifications for linear low density polyethylene.

Physical Properties

Density	ASTM D-1505
Melt Flow Index 8/10 Min.	ASTM D-1238
Environmental Stress Crack Resistance Hours	ASTM D-1693
Tensile Strength Yield, Mpa	ASTM D-638
Elongation at Break %	ASTM D-638
Flexural Modulus, Gpa	ASTM D-790

Thermal Properties

Deflection Temperature at 0.46 Mpa, °C	ASTM D-648
Deflection Temperature at 1-8 Mpa, °C	ASTM D-648
Vicat Softening Point, °C	ASTM D-1525

Other

Will be UV Stabilized
Polyethylene MSDS to be furnished by the manufacturer.

The inside form of the cast in place concrete riser/collar shall be tubular in shape and flanged to be bolted onto the existing concrete structure. Concrete riser/collar shall also be sufficient in strength to withstand a minimum vertical load of 1,000 lbs., and a minimum radial static load of 150 Lbs/sft prior to pouring concrete. The form shall be left in place.

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c. Construction. The Contractor shall perform temporary lowering of existing and proposed drainage structures in accordance with Section 403.03 (8). The structure shall be located by witness and/or GPS to the center of the proposed cover location. The structure opening shall be temporarily plated, and the roadway base and surface shall be constructed adjacent to and over the structure in a contiguous and homogenous manner to the surrounding road base and surface material. Density requirements over the structure plate for the aggregate base and HMA surface shall be the same as the surrounding material, pursuant to the specifications.

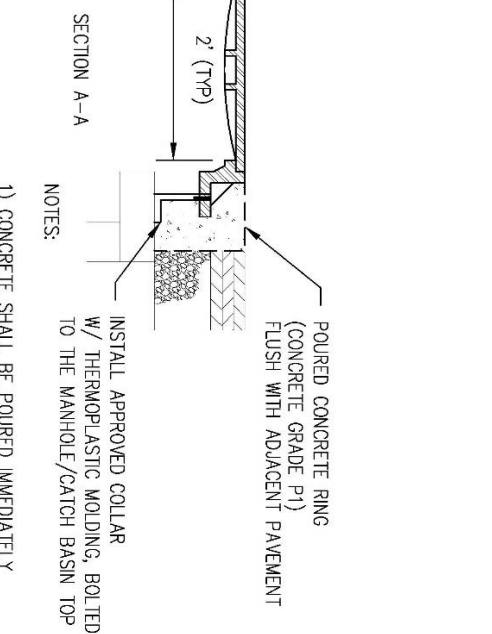
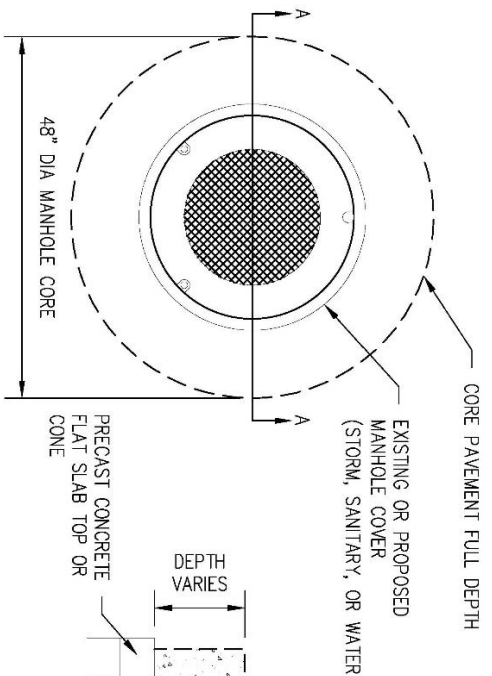
After the top course of HMA has been placed, the Contractor shall core the existing pavement full depth, centered on the manhole, remove loose material, remove temporary drainage structure plate, install thermoplastic molding collar, trim collar to heights and slope, reinstall casting, and pour concrete to match finished road surface.

d. Measurement and Payment. The completed work as measured for **Manhole Cover, Collar** will be paid for at the contract unit price for the following contract item (pay item).

Contract Item (Pay Item)	Pay Unit
Manhole Cover, Collar.....	Each

The work of **Manhole Cover, Collar** will be measured and paid for at the contract unit price per each, which price shall be payment in full for all labor, material, and equipment necessary to temporarily lower and adjust existing and proposed manhole covers at locations as shown in the plans and as specified above.

Cost for work for manhole cover adjustment of existing storm sewer, sanitary sewer, and water main structures located outside the roadway will be measured and paid for separately as **Dr Structure Cover, Adj, Case 2.**



MANHOLE COVER ADJUSTMENT
NO SCALE

- NOTES:
- 1) CONCRETE SHALL BE POURED IMMEDIATELY UPON CORING THE STRUCTURE.
 - 2) CONTRACTOR SHALL ENSURE THE ADJACENT AGGREGATE BASE COURSE REMAINS IN PLACE AND UNDISTURBED.
 - 3) ANY VOIDS CREATED OUTSIDE OF THE CORE FACE SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

General Notes

DETAILS FOR
MANHOLE COVER
COLLAR



No.	Revision/Issue	Date

Project	Sheet
01/03/19	3 of 3
Notes	NONE