



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

April 10, 2013

SUBJECT: Route 310 (US 67)  
Project F-0310(150)  
Section (37-2) RS-1  
Mc Dough County  
Contract No. 68A34  
Item No. 70, April 26, 2013 Letting  
Addendum A

## NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Replaced Schedule of Prices.
2. Revised Table of Contents Page i.
3. Revised page 9 of Special Provisions.
4. Add pages 70-73 to the Special Provisions.
5. Revised plans sheets 3 & 22 of the fold up plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

John D. Baranzelli, P. E.  
Acting Engineer of Design and Environment

A handwritten signature in cursive script, appearing to read "Ted B. Walschleger" with a small "P.E." to the right.

By: Ted B. Walschleger, P. E.  
Engineer of Project Management

cc: J. E. Crowe, Region 3, District 4; Mike Renner; Estimates

HM/ks

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT  
 NUMBER - 68A34

State Job # - C-94-049-11

County Name - MCDONOUGH- -

Code - 109 - -

District - 4 - -

Section Number - (37-2)RS-1

Project Number

F-0310/150/

\*REVISED: APRIL 08, 2013

Route

FAP 310

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X2503100	MOWING	UNIT	190.000				
X6670109	PERM SURVEY TIES	EACH	16.000				
X7830074	GRV RCSD PVT MRKG 7	FOOT	9,414.000				
Z0033600	LONG JOINT REPAIR	FOOT	1,700.000				
Z0034105	MATL TRANSFER DEVICE	TON	10,723.000				
40600215	P BIT MATLS PR CT	TON	98.300				
40600300	AGG PR CT	TON	486.000				
40600827	P LB MM IL-4.75 N50	TON	4,190.000				
40600895	CONSTRUC TEST STRIP	EACH	1.000				
40600982	HMA SURF REM BUTT JT	SQ YD	5,577.000				
40600990	TEMPORARY RAMP	SQ YD	405.000				
40603310	HMA SC "C" N50	TON	7,185.000				
40603540	P HMA SC "D" N70	TON	10,723.000				
40800050	INCIDENTAL HMA SURF	TON	284.000				
44000152	HMA SURF REM 3/4	SQ YD	167,180.000				

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Route

FAP 310

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
48102100	AGG WEDGE SHLD TYPE B	TON	2,710.000				
64200116	SHOULDER RUM STRIP 16	FOOT	75,532.000				
66700305	PERM SURV MKRS T2	EACH	8.000				
67000400	ENGR FIELD OFFICE A	CAL MO	2.000				
67100100	MOBILIZATION	L SUM	1.000				
70100700	TRAF CONT-PROT 701406	L SUM	1.000				
70300100	SHORT TERM PAVT MKING	FOOT	30,632.000				
70300210	TEMP PVT MK LTR & SYM	SQ FT	506.000				
70300220	TEMP PVT MK LINE 4	FOOT	75,532.000				
70300240	TEMP PVT MK LINE 6	FOOT	9,414.000				
70300250	TEMP PVT MK LINE 8	FOOT	6,530.000				
70300260	TEMP PVT MK LINE 12	FOOT	520.000				
70300280	TEMP PVT MK LINE 24	FOOT	256.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	11,352.000				
*DEL 78003130	PREF PL PM TB LINE 6	FOOT	9,414.000				

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\*REVISED: APRIL 08, 2013

Route

FAP 310

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
*ADD 78004230	PREF PL PM TB INL L6	FOOT	9,414.000				
78009000	MOD URETH PM LTR-SYM	SQ FT	506.000				
78009004	MOD URETH PM LINE 4	FOOT	75,532.000				
78009008	MOD URETH PM LINE 8	FOOT	6,530.000				
78009012	MOD URETH PM LINE 12	FOOT	520.000				
78009024	MOD URETH PM LINE 24	FOOT	256.000				
78100100	RAISED REFL PAVT MKR	EACH	642.000				
78300200	RAISED REF PVT MK REM	EACH	642.000				

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Revised 4-10-13

The speed measurement shall be by radar and provide a detection distance of one-quarter (1/4) to one-half (1/2) mile.

The speed indicator display shall face approaching traffic and shall have a sign legend of "Your Speed is" above the speed display, and "MPH" below the speed display. The digital display between the fixed messages shall show two digits (00 to 99). The minimum height of the numerals shall be eight (8") inches, and the nominal legibility distance shall be at least 750 feet. Whenever the signs are in use, they shall be considered as traffic control device(s). When they are not required for use, they shall be considered as equipment.

The speed indicator measurement and display functions shall be equipped with a power supply capable of providing 24 hours of uninterrupted service.

The Contractor is required to provide all preventive maintenance effort that is necessary to achieve uninterrupted service. If service is interrupted for any cause and not restored within 24 hours, the Engineer shall cause such work to be performed as may be necessary to provide this service. The cost of such work shall be borne by the Contractor or deducted from current or future compensation due to the Contractor.

Basis of Payment: The furnishing, placing, and maintenance of speed indicator measurement and display units shall be incidental to the existing Traffic Control Standards.

Revised 4-10-13

## **GROOVING FOR RECESSED PAVEMENT MARKING**

Description. This work shall consist of grooving the pavement surface in accordance with the material manufacturer's requirements and as specified herein in preparation for the application of recessed pavement markings.

Equipment. Equipment shall be according to the following.

Pavement Marking Tape Installations: The grooving equipment shall have a free-floating saw blade cutting head equipped with gang-stacked diamond saw blades. The diamond saw blades shall be of uniform wear and shall produce a smooth textured surface. Any ridges in the groove shall have a maximum height of 15 mils (0.38 mm).

### CONSTRUCTION REQUIREMENTS

General. Prior to the operation, the Contractor shall supply the Engineer with a copy of the pavement marking material manufacturer's recommendations for constructing a groove.

Pavement Grooving Methods. The grooves for recessed pavement markings shall be constructed using the following methods.

- (a) Wet Cutting Head Operation. When water is required or used to cool the cutting head, the groove shall be flushed with high pressure water immediately following the cut to avoid build up and hardening of slurry in the groove. The pavement surface shall be allowed to dry for a minimum of 24 hours prior to the final cleaning of the groove and application of the pavement marking material.
- (b) Dry Cutting Head Operation. When used on HMA pavements, the groove shall be vacuumed or cleaned by blasting with high-pressure air to remove loose aggregate, debris, and dust generated during the cutting operation. When used on PCC pavements, the groove shall be flushed with high pressure water or shot blasted to remove any PCC particles that may have become destabilized during the grooving process. If high pressure water is used, the pavement surface shall be allowed to dry for a minimum of 24 hours prior to the final cleaning of the groove and application of the pavement marking material.

Pavement Grooving. Grooving shall not cause ravels, aggregate fractures, spalling or disturbance of the joints to the underlying surface of the pavement. Grooves shall be cut into the pavement prior to the application of the pavement marking material. Grooves shall be cut such that the width is 1 in. (25 mm) greater than the width of the pavement marking line as specified on the plans. The length of the groove shall be cut such that the pavement marking material can be applied meeting the installation requirements for the entire length of the marking material. Grooving between skip dashes will not be allowed. Grooves for letters, numbers and symbols shall be cut in a square or rectangular shape so that the entire marking will fit within the limits of the grooved area. The position of the edge of the grooves shall be a minimum of 4 in. (100 mm) from the edge of all longitudinal joints. The cutting head shall be operated at the appropriate speed in order to prevent undulation of the cutting head and grooving at an inconsistent depth. The depth of the groove shall be in accordance with the manufacturer's

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recommendations for the pavement marking material specified. In the absence of manufacturer recommendations, the entire thickness of the marking material shall be below the finished pavement elevation, but in no case shall the groove depth be greater than 200 mils.

At the start of grooving operations, a test section of 4 properly spaced skip dashes shall be installed and embedment measurements shall be made on each of the skip dashes. The individual depth measurements shall be within the allowable ranges according to this special provision. If it is determined the test section has not been grooved at the appropriate depth or texture or that deformation of the markings has occurred during the installation, adjustments shall be made to the cutting head or the installation procedure, and another test section of 4 skip dashes shall be installed and checked. This process shall continue until the test section meets the requirements of this special provision. Markings not meeting installation requirements shall be removed and then replaced using the pavement grooving procedure. No additional compensation will be allowed for the removal and replacement of markings not meeting installation requirements.

For new HMA pavements, grooves shall not be installed within 14 days of the placement of the final course of pavement.

Final Cleaning. Immediately prior to the application of the pavement marking material or primer sealer, the groove shall be cleaned with high-pressure air blasts.

Method of Measurement. This work will be measured for payment as follows.

(a) Contract Quantities. The requirements for the use of contract quantities shall be according to Article 202.07(a).

(b) Measured Quantities. Grooves will be measured for payment in place in feet (meters) for the length of grooving with pavement marking material applied. Double grooves will be measured as two separate grooves. Grooving in excess of the applied marking material, including any transition lengths, will not be measured for payment.

Grooving for letters, numbers and symbols will be measured for payment in place in square feet (square meters).

Basis of Payment. This work will be paid for at the contract unit price per foot (meter) for GROOVING FOR RECESSED PAVEMENT MARKING of the groove width specified and per square foot (square meter) for GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS.

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## **PREFORMED PLASTIC PAVEMENT MARKING, TYPE B – INLAID**

This work shall include all materials, labor, and equipment necessary to install the preformed plastic pavement marking as specified in Section 780 of the Standard Specifications, as shown in the plans, and as described herein. The Contractor shall have the option to inlay the pavement markings in accordance with the inlaid application procedure behind the paving operation or to install the pavement markings at a later date in accordance with the pavement grooving procedure. The Contractor shall supply the Engineer with a copy of the pavement marking material manufacturer's specifications for the pavement marking material and the application procedure selected prior to the operation.

Revise the first paragraph of Article 780.07(a) to read:

"Type B – Inlaid Application. On freshly placed HMA, the inlaid markings shall be applied before final compaction at the pavement temperature and embedment depth as recommended by the manufacturer and without deforming the markings. In the absence of embedment specifications from the manufacturer, no more than 45% of the thickness of the marking material shall be above the finished pavement elevation. If the Contractor is unable to achieve this depth of embedment, the markings shall be installed separately from the paving operation utilizing a pavement grooving procedure in accordance with the manufacturer's specifications and as specified herein. Markings not meeting embedment requirements shall be removed and then replaced using the pavement grooving procedure. No additional compensation will be allowed for the removal and replacement of markings not meeting embedment requirements."

Delete the last paragraph of Article 780.07(a).

Delete Article 780.07(b).

Pavement Grooving Procedure. If the pavement markings are installed separately from the paving operation, the pavement shall be grooved to create a recess in the surface course and prepared in accordance with the material manufacturer's requirements and as specified in the GROOVING FOR RECESSED PAVEMENT MARKING special provision.

Add the following paragraph after the first paragraph of Article 780.07 of the Standard Specifications.

"The markings shall be capable of being applied in a grooved slot on new and existing Portland cement concrete and HMA surfaces, by means of a pressure-sensitive, precoated adhesive or a liquid contact cement which shall be applied at the time of installation. A primer sealer shall be applied with a roller and shall cover and seal the entire bottom of the groove. The primer sealer shall be recommended by the manufacturer of the pavement marking material and shall be compatible with the material being used. The Contractor shall install the markings in the groove as soon as possible after the primer sealer cures according to the manufacturer's recommendations. The markings placed in the groove shall be rolled or tamped into the groove with a roller or tamper cart cut to fit the groove and loaded with or weighing at least 200 lb (90kg). Vehicle tires shall not be used for rolling. The Contractor shall roll or tamp the material with a minimum of 6 passes to prevent easy removal or peeling."

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Method of Measurement. This work will be measured for payment in accordance with Article 780.12.

Delete the last paragraph of Article 780.12.

Basis of Payment. Regardless of the procedure of installation, this work will be paid for at the contract unit price per foot (meter) of applied line width, as specified, for PREFORMED PLASTIC PAVEMENT MARKING, TYPE B – INLAID – LINE. If the pavement grooving procedure is used, any grooving of the pavement for the pavement markings will be paid for according to the GROOVING FOR RECESSED PAVEMENT MARKING special provision. If the inlaid application is used, no payment will be made for grooving.

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# Summary of Quantities

Code Order

ROUTE	SECTION	COUNTY	SHEET
FAP 310	(37-2)RS-1	MCDONOUGH	TOTAL NO.
US 67			33 10

CONTRACT NO. 68A34

CONSTRUCTION TYPE CODE	
0005	0005
80 Fed / 20 St	100% STATE

CODE No.	ITEM	UNIT	Tot.QTY
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X 70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	6530
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X 70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	520
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X 70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	256
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70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	11352
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X 78004230	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B -IMPAID LINE 6"	FOOT	9414
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X 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	506
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X 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	75532
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X 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	6530
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X 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	520
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X 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	256
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REVISSED 4/8/13

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL		
NB & SB STA. 402+45 TO STA. 592+60	474	EACH
TURN LANES	168	EACH
TOTAL	642	EACH

SHOULDER RUMBLE STRIPS, 16 INCH		
NB & SB, STA. 402+45 TO STA. 592+60	75532	FOOT

TEMPORARY PAVEMENT MARKING L&S		
TURN LANES AND SIDE ROADS	505.5	SQ FT

TEMPORARY PAVEMENT MARKING LINE 4"		
402+45 TO 592+60 (WHITE & YELLOW)	75532	FOOT

TEMPORARY PAVEMENT MARKING LINE 6"		
402+45 TO 592+60 (CENTERLINE)	9414	FOOT

TEMPORARY PAVEMENT MARKING LINE 8"		
ISLANDS AND TURN LANES BORDERS	6530	FOOT

TEMPORARY PAVEMENT MARKING LINE 12"		
ISLAND DIAGONALS	520	FOOT

TEMPORARY PAVEMENT MARKING LINE 24"		
STOP BARS	256	FOOT

RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)		
NB & SB STA. 402+45 TO STA. 592+60	474	EACH
TURN LANES	168	EACH
TOTAL	642	EACH

PERFORMED PLASTIC PAVEMENT MARKING, TY B-INLAND-LINE 6"		
402+45 TO 592+60 (CENTERLINE)	9414	FOOT

MODIFIED URETHANE PAVEMENT MARKING L&S		
TURN LANES AND SIDE ROADS	505.5	SQ FT

MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		
402+45 TO 592+60 (WHITE & YELLOW)	75532	FOOT

MODIFIED URETHANE PAVEMENT MARKING LINE 8"		
ISLANDS AND TURN LANES BORDERS	6530	FOOT

MODIFIED URETHANE PAVEMENT MARKING LINE 12"		
ISLAND DIAGONALS	520	FOOT

MODIFIED URETHANE PAVEMENT MARKING LINE 24"		
STOP BARS	256	FOOT

GROOVING FOR RESESSED PAVEMENT MARKING 7"		
402+45 TO 592+60 (CENTERLINE)	9414	FOOT

REVISSED 4/8/13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

ROUTE	SECTION	COUNTY	SHEET
F.A.P 310	QT-2RS-1	McDonough	TOTAL
US 67	CONTRACT NO. 68A34		NO.
			33
			22