



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

October 22, 2015

SUBJECT: FAI Route 74 (I-74)
Project ACHSIP-ACNHPP-0074 (314)
Section (74, 10-4-1, 10-4, 10-5) RS
Champaign County
Contract No. 70765
Item No. 27, November 6, 2015 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 the Schedule of Prices.
2. Revised pages 10-12 of the Special Provisions.
3. Revised sheets 10, 13, and 121 of the 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, reading "Ted B. Walschleger P.E." with a small "P.E." to the right.

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

cc: Kensil Garnett, Region 3, District 5; Tim Kell; D. Carl Puzey; Estimates

JW/ck

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT
NUMBER - 70765

State Job # - C-95-022-09

County Name - CHAMPAIGN- -

Code - 19 - -

District - 5 - -

Section Number - (74,10-4-1,10-4,10-5)RS

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0321962	CONNECT EX PIPE UNDR	EACH	6.000				
X0323388	TRAFFIC COUNTER	EACH	1.000				
X0325279	CLASS SI CONC (MISC)	CU YD	5.000				
X0325743	STR REP CON DP=<5 SPL	SQ FT	138.000				
X0326206	RESET GRATE	EACH	3.000				
X4400196	HMA SURF REM SPL	SQ YD	385.000				
X4401198	HMA SURF REM VAR DP	SQ YD	2,468.000				
X4403300	CONC MEDIAN REMOV	SQ FT	296.000				
X6061702	CONC MED TSM DOW	SQ FT	296.000				
X6311217	TRAF BAR TERM T6B SPL	EACH	1.000				
X6340205	GUARD POSTS REMOV	EACH	12.000				
X6430120	REM IMP ATTEN NO SALV	EACH	9.000				
X6431110	REM ATTEN BASE	EACH	9.000				
X6650202	WOV W FENCE REMOV	FOOT	560.000				
X7010410	SPEED DISPLAY TRAILER	CAL MO	8.000				

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X7015005	CHANGEABLE MESSAGE SN	CAL DA	56.000				
X7200201	WIDTH RESTRICT SIGN	L SUM	1.000				
X7830070	GRV RCSD PVT MRKG 5	FOOT	166,623.000				
X7830074	GRV RCSD PVT MRKG 7	FOOT	525.000				
X7830076	GRV RCSD PVT MRKG 9	FOOT	5,703.000				
X7830078	GRV RCSD PVT MRKG 13	FOOT	299.000				
X7830090	GRV RCSD PVT MRKG 25	FOOT	145.000				
X8570000	SMART TRAF MONIT SYS	L SUM	1.000				
*ADD X9700006	SMART TRAF MONIT DEV	CAL MO	120.000				
Z0001899	JACK & REM EX BEARING	EACH	28.000				
Z0004556	HMA SURFACE RM (DECK)	SQ YD	1,371.000				
Z0006012	BR DK LTX C OLY 2 1/4	SQ YD	1,830.000				
Z0012130	BR DECK SCAR 3/4	SQ YD	1,853.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0015802	PLUG EX DK DRAINS	EACH	16.000				

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Z0016001	DECK SLAB REP (FD-T1)	SQ YD	24.800				
Z0016002	DECK SLAB REP (FD-T2)	SQ YD	80.300				
Z0016200	DECK SLAB REP (PART)	SQ YD	14.200				
Z0021916	SILICONE JT SEAL 3	FOOT	89.000				
Z0034105	MATL TRANSFER DEVICE	TON	48,713.000				
Z0041895	POLYMER CONCRETE	CU FT	16.700				
Z0073200	TEMP SHORING & CRIB	EACH	4.000				
20200100	EARTH EXCAVATION	CU YD	205.000				
20201200	REM & DISP UNS MATL	CU YD	2,040.000				
20400800	FURNISHED EXCAVATION	CU YD	980.000				
21400100	GRADING & SHAP DITCH	FOOT	240.000				
25000210	SEEDING CL 2A	ACRE	2.500				
25000400	NITROGEN FERT NUTR	POUND	225.000				
25000500	PHOSPHORUS FERT NUTR	POUND	225.000				
25000600	POTASSIUM FERT NUTR	POUND	225.000				

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25100115	MULCH METHOD 2	ACRE	2.500				
28000250	TEMP EROS CONTR SEED	POUND	250.000				
28000305	TEMP DITCH CHECKS	FOOT	275.000				
28000400	PERIMETER EROS BAR	FOOT	300.000				
28000500	INLET & PIPE PROTECT	EACH	7.000				
28100707	STONE DUMP RIP CL A4	SQ YD	117.000				
28200200	FILTER FABRIC	SQ YD	117.000				
35300510	PCC BSE CSE 10 1/2	SQ YD	33.000				
40300100	BIT MATLS PR CT	GALLON	1,751.000				
40300300	BIT MATLS C&S CT	GALLON	4,373.000				
40300600	SEAL COAT AGG	TON	134.000				
40600275	BIT MATLS PR CT	POUND	213,339.000				
40600627	LB MM IL-9.5FG N50	TON	822.000				
40600982	HMA SURF REM BUTT JT	SQ YD	5,795.000				
40600990	TEMPORARY RAMP	SQ YD	834.000				

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40603240	P HMA BC IL19.0 N90	TON	32,105.000				
40603335	HMA SC "D" N50	TON	2,450.000				
40603570	P HMA SC "E" N90	TON	16,610.000				
40800025	BIT MATLS PR CT	POUND	173.000				
40800050	INCIDENTAL HMA SURF	TON	33.000				
44000155	HMA SURF REM 1 1/2	SQ YD	215,251.000				
44000159	HMA SURF REM 2 1/2	SQ YD	18,466.000				
44000164	HMA SURF REM 3 3/4	SQ YD	10,992.000				
44000181	HMA SURF REM 7 3/4	SQ YD	84,611.000				
44004000	PAVED DITCH REMOVAL	FOOT	20.000				
44200637	CL A PATCH T2 17	SQ YD	286.000				
44200641	CL A PATCH T3 17	SQ YD	48.000				
44200643	CL A PATCH T4 17	SQ YD	134.000				
44213000	PATCH REINFORCEMENT	SQ YD	467.000				
44213200	SAW CUTS	FOOT	2,620.000				

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44213204	TIE BARS 3/4	EACH	51.000				
48101200	AGGREGATE SHLDS B	TON	5,387.000				
48102100	AGG WEDGE SHLD TYPE B	TON	2,465.000				
48203100	HMA SHOULDERS	TON	9,572.000				
50102400	CONC REM	CU YD	20.900				
50105220	PIPE CULVERT REMOV	FOOT	10.000				
50157300	PROTECTIVE SHIELD	SQ YD	849.000				
50300100	FLOOR DRAINS	EACH	36.000				
50300225	CONC STRUCT	CU YD	27.000				
50300255	CONC SUP-STR	CU YD	31.800				
50300260	BR DECK GROOVING	SQ YD	1,791.000				
50300300	PROTECTIVE COAT	SQ YD	230.000				
50500405	F & E STRUCT STEEL	POUND	4,210.000				
50500505	STUD SHEAR CONNECTORS	EACH	224.000				
50800205	REINF BARS, EPOXY CTD	POUND	7,299.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
50800515	BAR SPLICERS	EACH	64.000				
50900200	STEEL RAIL TYPE 2399	FOOT	911.000				
52000110	PREF JT STRIP SEAL	FOOT	180.000				
52100010	ELAST BEARING ASSY T1	EACH	28.000				
52100520	ANCHOR BOLTS 1	EACH	56.000				
542D0217	P CUL CL D 1 12	FOOT	10.000				
54248510	CONCRETE COLLAR	CU YD	1.000				
60100060	CONC HDWL FOR P DRAIN	EACH	6.000				
60108100	PIPE UNDERDRAIN 4 SP	FOOT	36.000				
60236200	INLETS TA T8G	EACH	1.000				
60500060	REMOV INLETS	EACH	1.000				
63000001	SPBGR TY A 6FT POSTS	FOOT	3,125.000				
63000003	SPBGR TY A 9FT POSTS	FOOT	200.000				
63000025	SPBGR ATTACH TO STR	FOOT	12.500				
63100045	TRAF BAR TERM T2	EACH	3.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
63100085	TRAF BAR TERM T6	EACH	8.000				
63100087	TRAF BAR TERM T6A	EACH	8.000				
63100089	TRAF BAR TERM T6B	EACH	1.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	7.000				
63100169	TR BAR TRM T1 SPL FLR	EACH	13.000				
63200310	GUARDRAIL REMOV	FOOT	4,416.500				
63301210	REM RE-E SPBGR TY A	FOOT	50.000				
63400105	GUARD POSTS	EACH	12.000				
64200116	SHOULDER RUM STRIP 16	FOOT	141,429.000				
64300450	IMP ATTEN NRD TL3	EACH	8.000				
64301090	ATTENUATOR BASE	SQ YD	208.000				
66500105	WOV W FENCE 4	FOOT	560.000				
67000500	ENGR FIELD OFFICE B	CAL MO	8.000				
67100100	MOBILIZATION	L SUM	1.000				
70100207	TRAF CONT-PROT 701402	EACH	2.000				

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70100420	TRAF CONT-PROT 701411	EACH	12.000				
70100800	TRAF CONT-PROT 701401	L SUM	1.000				
70100825	TRAF CONT-PROT 701456	L SUM	1.000				
70102635	TR CONT & PROT 701701	L SUM	1.000				
70103815	TR CONT SURVEILLANCE	CAL DA	26.000				
*REV 70106800	CHANGEABLE MESSAGE SN	CAL MO	240.000				
70300100	SHORT TERM PAVT MKING	FOOT	24,356.000				
70300210	TEMP PVT MK LTR & SYM	SQ FT	222.000				
70300220	TEMP PVT MK LINE 4	FOOT	185,213.000				
70300240	TEMP PVT MK LINE 6	FOOT	525.000				
70300250	TEMP PVT MK LINE 8	FOOT	5,703.000				
70300260	TEMP PVT MK LINE 12	FOOT	299.000				
70300280	TEMP PVT MK LINE 24	FOOT	145.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	69,233.000				
70400100	TEMP CONC BARRIER	FOOT	1,050.000				

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70400200	REL TEMP CONC BARRIER	FOOT	1,050.000				
70600250	IMP ATTN TEMP NRD TL3	EACH	2.000				
70600350	IMP ATTN REL NRD TL3	EACH	2.000				
72700100	STR STL SIN SUP BA	POUND	520.000				
73400100	CONC FOUNDATION	CU YD	1.400				
78001110	PAINT PVT MK LINE 4	FOOT	9,120.000				
78004210	PREF PL PM TB INL L4	FOOT	18,590.000				
78009000	MOD URETH PM LTR-SYM	SQ FT	222.000				
78009004	MOD URETH PM LINE 4	FOOT	166,623.000				
78009006	MOD URETH PM LINE 6	FOOT	525.000				
78009008	MOD URETH PM LINE 8	FOOT	5,703.000				
78009012	MOD URETH PM LINE 12	FOOT	299.000				
78009024	MOD URETH PM LINE 24	FOOT	145.000				
78100100	RAISED REFL PAVT MKR	EACH	2,209.000				
78100105	RAISED REF PVT MKR BR	EACH	38.000				

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78200410	GUARDRAIL MKR TYPE A	EACH	55.000				
78201000	TERMINAL MARKER - DA	EACH	16.000				
78300200	RAISED REF PVT MK REM	EACH	2,243.000				
88600100	DET LOOP T1	FOOT	239.000				

WORK ZONE SMART TRAFFIC MONITORING SYSTEM

Description: This work shall consist of furnishing, installing, programming, maintaining, relocating, and removing, various components of an automated Smart Traffic Monitoring (STM) System in a work zone. This work shall be completed according to Section 701 of the Standard Specifications, as detailed in the plans, and described herein.

Lane Closures: The STM System shall display dynamic messages at multiple locations for work zone lane closures.

Schedule: The STM System shall be 100% operable not less than seven (7) days prior to the Contractor establishing the work zone, as directed by the Engineer. The STM System shall be in operation 24 hours a day and seven (7) days per week throughout the duration of the project.

Function: The components shall include Smart Traffic Monitoring Devices (STMDs), portable changeable message signs (PCMSs), and control software for various communication functions. The STM System shall collect real-time vehicle data at various locations prior to and within a work zone and, depending upon traffic conditions, shall activate various, specific preapproved messages, developed through coordination with the Engineer, on PCMSs. The STM System shall calculate the actual traffic delay time and distance, within 0.5 mile accuracy, to stopped or significantly slowed traffic ahead for the work zone and notify road users via PCMSs. The STM System shall also have the capability of calculating travel times to major destinations, as applicable, and notify road users of projected delays, if required by the Engineer. The actual message text on each PCMS displaying messages will be determined by the Engineer.

The following STM System manufacturers and/or vendors shall be used:

1. ASTI - <http://new.asti-trans.com>
18 Blevins Drive, New Castle DE 19720
Telephone - (302) - 328 - 3220
2. iCone- <http://iconeproducts.com>
620 Old Liverpool Road, Liverpool NY, 13088
Telephone: (315) 626-6800
3. Street Smart - <http://www.streetSMARTrental.com>
7526 4th Ave.
Lino Lakes, MN 55014
Telephone: (651) 653-4648
4. Ver-Mac – www.ver-mac.com
2650 Minnehaha Ave., suite 500
Minneapolis, MN 55406
Telephone: 612-521-2122

The STM System shall inform the District of delay time and stopped traffic via the internet and/or through the District's Traffic Management Center.

Smart Traffic Monitoring Devices (STMDs): The Contractor shall provide monitoring devices that are MUTCD compliant and meet NCHRP 350, Category 2, crashworthy standards, and are consistent with work zone devices. The STMDs shall have internal power sources, shall communicate wirelessly in real-time, and shall provide continuous, uninterrupted, data collection during normal operations or during power or communication interruptions. The STMDs shall gather real-time data, provide 95% accuracy on all vehicle detection, have Global Positioning System (GPS) functionality, transfer data to web-based communications for monitoring, and communicate with the PCMSs 24 hours a day seven (7) days a week. The web-based interface shall provide average vehicle speed, volume, and queue information at each device location and maintain data history for a minimum of 12 months. The system shall provide vehicle detection in advance of the maximum projected vehicle queue. Twenty (20) STMDs shall be provided to gather and report real-time data 24 hours a day and seven (7) days per week throughout the duration of the project. The number and proper locations of STMDs needed to provide dynamic, travel time messages and queue detection from the STM System shall be recommended by the manufacturer and approved by the Engineer. The website shall report data by overlaying work zones onto an interactive map. Data shall include the date, time, and average vehicle speed through the work zone.

Control Software: The user interface shall be accessible via the web browser of an internet-enabled device. The software shall provide delay and queue calculations based on vehicle speed and traffic volume. The agency-only side shall be password protected to prevent public access, provide access to all system data, including average vehicle speed, volume, queue information, and PCMS messages being displayed, and allow the Engineer to override preapproved, preprogrammed PCMS messages and message activation logic. The software shall provide email and/or text alerts to specified Department personnel when speeds or queue lengths are outside Department-defined parameters.

The software shall provide an XML (or other Department-specified format) data feed to the Department on request and shall hold an archive of data for a period of not less than one (1) year beyond contract completion, and the Contractor shall provide archived data to Department at completion of the contract. The data shall be available for download from the agency-only side at all times. Public agencies authorized by the Department shall be granted user accounts at no additional cost.

Portable Changeable Message Signs (PCMSs): The PCMSs shall meet the requirements of Article 701 of the Standard Specifications. The signs shall be equipped with communications fully compatible with the STM System and shall wirelessly communicate with the STMDs and control software. The STM's PCMSs shall display the flashing caution mode when not in use by the system or shall be treated as nonoperating equipment in accordance with Article 701.11.

Protection: All communications in the STM System shall be protected from vandalism and to prevent unauthorized personnel from accessing non-public data or changing the displays on the PCMSs.

System Communications: All communication networks used in the STM System shall be provided by the Contractor. Traffic monitoring devices shall be of a type whose accuracy is not degraded by inclement weather or degraded by other environmental conditions. When any part of the STM System has not been functioning for 10 minutes, the STM System shall notify the Engineer of the malfunction immediately. Upon the direction of the Engineer, the STM System shall notify the Contractor and /or the District's Traffic Management Center, as applicable.

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

- (a) Measured as Lump Sum. Smart Traffic Monitoring System, except for Portable Changeable Message Signs and Smart Traffic Monitoring Devices.
- (b) Measured on a Calendar Month basis. Portable Changeable Message Signs, except for those which are part of a Standard listed in Article 701.19.
- (c) Measured on a Calendar Month basis for Smart Traffic Monitoring Devices.

Basis of Payment: This work will be paid for as follows.

At the contract unit price per lump sum for SMART TRAFFIC MONITORING SYSTEM.

- (a) After the STM System is set up and 100 % operable, 25% of the pay item will be paid.
- (b) After each month of use, 65% of the pay item will be paid on a prorated monthly basis.
- (c) After the STM System is completely removed, 10% of the pay item will be paid.

Portable Changeable Message Signs as Part of Smart Traffic Monitoring will be paid for at the contract unit price per calendar month for each sign as CHANGEABLE MESSAGE SIGN.

Smart Traffic Monitoring Devices as Part of Smart Traffic Monitoring will be paid for at the contract unit price per calendar month for each device as SMART TRAFFIC MONITORING DEVICE.

SUGGESTED SEQUENCE OF OPERATIONS

1. Pavement shall be patched.
2. Mainline inside passing lane shoulders shall be inlayed.
3. Mainline driving lanes shall be milled and resurfaced with binder and outside shoulders shall be milled 1 ½".
4. Surface course shall be placed on mainline driving lanes.
5. Mainline outside driving lane shoulders shall be inlayed.
6. Mainline passing lanes shall be inlayed.
7. Interchange ramps and shoulders shall be inlayed and/or given seal coat treatment.
8. Mainline guardrail and impact attenuator upgrades shall be completed including applicable earthwork.
9. Riprap shall be placed at designated culvert locations.
10. Striping, RRPMS, and rumble strips placed and all lanes opened to traffic.

Revised 10-22-15