



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

June 7, 2012

SUBJECT: FAI Routes 74, 80, 88 & 280 (I-74, I-80, I-88 & I-280)  
Project HSIP-000S (903)  
Section D2 SAFETY 2012-2  
Henry, Rock Island & Whiteside Counties  
Contract No. 64H77  
Item No. 207, June 15, 2012 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 the Recurring Special Provision Check Sheet.
3. Replaced the Table of Contents to the Special Provisions.
4. Revised pages 1-6 & 8 of the Special Provisions.
5. Added pages 90-100 to the Special Provisions.
6. Revised sheets 1-3, 5-18, 34-41, 49, 53, 58, 59, 64, 66-84 & 86-115 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 Bureau Chief of Design and Environment

A handwritten signature in black ink, appearing to read 'Ted B. Walschleger P.E.' with a stylized flourish at the end.

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

cc: Eric Therkildsen, Region 2, District 2; Mike Renner; D.Carl Puzey;  
Estimates

TBW/MS/III

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT  
 NUMBER -

64H77

State Job # - C-92-134-12

County Name - HENRY- ROCK ISLAND- WHITESIDE

Code - 73 - 161 - 195

District - 2 - 2 - 2

Section Number - D2 SAFETY 2012-2

Project Number  
HSIP-000S/903/

Route  
VARIOUS

\*REVISED: JUNE 5, 2012

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0322352	SEEDING MOBILIZATION	EACH	3.000				
X0324589	P UNDR OUTLET EXT 4	EACH	8.000				
X4400600	END SECTIONS REMOVED	EACH	1.000				
X6311217	TRAF BAR TERM T6B SPL	EACH	4.000				
*REV X6340205	GUARD POSTS REMOV	EACH	33.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
*REV 20200100	EARTH EXCAVATION	CU YD	675.000				
*REV 20400800	FURNISHED EXCAVATION	CU YD	10,339.000				
*REV 25000210	SEEDING CL 2A	ACRE	10.310				
*REV 25000400	NITROGEN FERT NUTR	POUND	928.000				
25000500	PHOSPHORUS FERT NUTR	POUND	962.000				
25000600	POTASSIUM FERT NUTR	POUND	962.000				
*REV 25000750	MOWING	ACRE	10.310				
*DELETE 25100125	MULCH METHOD 3	ACRE	11.500				
*ADD 25100630	EROSION CONTR BLANKET	SQ YD	52,378.000				

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\*REVISED: JUNE 5, 2012

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
*REV 28000250	TEMP EROS CONTR SEED	POUND	3,084.000				
28000305	TEMP DITCH CHECKS	FOOT	360.000				
28000400	PERIMETER EROS BAR	FOOT	1,930.000				
28000500	INLET & PIPE PROTECT	EACH	23.000				
*DELETE 48100300	AGGREGATE SHLDS A 4	SQ YD	2,168.000				
*ADD 48203013	HMA SHOULDERS 4	SQ YD	3,474.000				
50300225	CONC STRUCT	CU YD	201.100				
50800205	REINF BARS, EPOXY CTD	POUND	17,850.000				
542D0229	P CUL CL D 1 24	FOOT	1,338.000				
54246205	INLET BOX 542526	EACH	10.000				
54248510	CONCRETE COLLAR	CU YD	8.000				
60221700	MAN TA 5 DIA T8G	EACH	1.000				
*REV 63000001	SPBGR TY A 6FT POSTS	FOOT	8,037.500				
63100045	TRAF BAR TERM T2	EACH	45.000				
*REV 63100167	TR BAR TRM T1 SPL TAN	EACH	6.000				

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Section Number - D2 SAFETY 2012-2

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Route  
VARIOUS

\*REVISED: JUNE 5, 2012

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
*REV 63100169	TR BAR TRM T1 SPL FLR	EACH	36.000				
63200310	GUARDRAIL REMOV	FOOT	150.000				
63500105	DELINEATORS	EACH	42.000				
64300450	IMP ATTEN NRD TL3	EACH	52.000				
*REV 64301090	ATTENUATOR BASE	SQ YD	1,420.000				
67000400	ENGR FIELD OFFICE A	CAL MO	5.000				
67100100	MOBILIZATION	L SUM	1.000				
70100420	TRAF CONT-PROT 701411	EACH	14.000				
70100700	TRAF CONT-PROT 701406	L SUM	1.000				
70100825	TRAF CONT-PROT 701456	L SUM	1.000				
70300100	SHORT TERM PAVT MKING	FOOT	7,700.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	2,541.000				
78200410	GUARDRAIL MKR TYPE A	EACH	181.000				
78201000	TERMINAL MARKER - DA	EACH	42.000				

RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

<u>CHECK SHEET #</u>	<u>PAGE NO.</u>
1 X Additional State Requirements for Federal-Aid Construction Contracts (Eff. 2-1-69) (Rev. 1-1-10) .....	1
2 X Subletting of Contracts (Federal-Aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93) .....	4
3 X EEO (Eff. 7-21-78) (Rev. 11-18-80) .....	5
4 Specific Equal Employment Opportunity Responsibilities Non Federal-Aid Contracts (Eff. 3-20-69) (Rev. 1-1-94) .....	15
5 Required Provisions - State Contracts (Eff. 4-1-65) (Rev. 1-1-12) .....	20
6 Asbestos Bearing Pad Removal (Eff. 11-1-03) .....	25
7 Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal (Eff. 6-1-89) (Rev. 1-1-09).....	26
8 Haul Road Stream Crossings, Other Temporary Stream Crossings, and In-Stream Work Pads (Eff. 1-2-92) (Rev. 1-1-98) .....	27
9 Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-07) .....	28
10 X Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-07) .....	31
11 Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-07) .....	34
12 Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 1-1-07) .....	36
13 Hot-Mix Asphalt Surface Correction (Eff. 11-1-87) (Rev. 1-1-09) .....	40
14 Pavement and Shoulder Resurfacing (Eff. 2-1-00) (Rev. 1-1-09) .....	42
15 PCC Partial Depth Hot-Mix Asphalt Patching (Eff. 1-1-98) (Rev. 1-1-07) .....	43
16 Patching with Hot-Mix Asphalt Overlay Removal (Eff. 10-1-95) (Rev. 1-1-07) .....	45
17 Polymer Concrete (Eff. 8-1-95) (Rev. 1-1-08) .....	46
18 PVC Pipeliner (Eff. 4-1-04) (Rev. 1-1-07) .....	48
19 Pipe Underdrains (Eff. 9-9-87) (Rev. 1-1-07) .....	49
20 X Guardrail and Barrier Wall Delineation (Eff. 12-15-93) (Rev. 1-1-12) .....	50
21 Bicycle Racks (Eff. 4-1-94) (Rev. 1-1-12) .....	54
22 Temporary Modular Glare Screen System (Eff. 1-1-00) (Rev. 1-1-07) .....	56
23 Temporary Portable Bridge Traffic Signals (Eff. 8-1-03) (Rev. 1-1-07) .....	58
24 X Work Zone Public Information Signs (Eff. 9-1-02) (Rev. 1-1-07) .....	60
25 Night Time Inspection of Roadway Lighting (Eff. 5-1-96) .....	61
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27 English Substitution of Metric Reinforcement Bars (Eff. 4-1-96) (Rev. 1-1-03) .....	63
28 Calcium Chloride Accelerator for Portland Cement Concrete (Eff. 1-1-01) .....	64
29 Portland Cement Concrete Inlay or Overlay for Pavements (Eff. 11-1-08) (Rev. 1-1-12) .....	65
30 Quality Control of Concrete Mixtures at the Plant(Eff. 8-1-00) (Rev. 1-1-11) .....	68
31 Quality Control/Quality Assurance of Concrete Mixtures(Eff. 4-1-92) (Rev. 1-1-11) .....	76

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## **STATE OF ILLINOIS** **SPECIAL PROVISIONS**

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction," adopted January 1, 2012, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein which apply to and govern the construction of FAI Route 74, 80, 88, 280 (I-74, I-80, I-88, I-280), Project HSIP-000S(903) Section D2 SAFETY 2012-2, Henry, Rock Island & Whiteside Counties, Contract 64H77, and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

### **LOCATION OF PROJECT**

I-88 West from US 30 interchange to 0.5 mile west of I-80 interchange.

I-80 South from Mississippi River to I-74/I-80 interchange; East from I-74/I-80 interchange to the Bureau County Line.

I-280 West from I-74/I-80 interchange to Mississippi River.

I-74 North from Henry County Line to I-80 interchange; West from I-74/I-80 interchange to I-74/I-280 interchange; North from I-74/I-280 interchange to Mississippi River.

### **DESCRIPTION OF PROJECT**

Safety protection upgrades at bridge piers and sign foundations along state maintained routes in Henry, Rock Island and Whiteside Counties.

### **TRAFFIC CONTROL PLAN**

Effective January 14, 1999

Traffic Control shall be according to the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the National Manual on Uniform Traffic Control Devices for Streets and Highways, Illinois Supplement to the National Manual on Uniform Traffic Control Devices, these special provisions, and any special details and Highway Standards contained herein and in the plans.

Special attention is called to Articles 107.09 and 107.14 of the Standard Specifications for Road and Bridge Construction and the following Highway Standards relating to traffic control.

Standards:

701101	701106	701400	701406	701411	701426
701456	701901				

Revised 06/07/12

Details:

Traffic Control Typical Weave (39.1)

Signs:

No bracing shall be allowed on post-mounted signs.

Post-mounted signs shall be installed using standard 720011, 728001, 729001, on 4"x4" wood posts, or on any other "break away" connection if accepted by the FHWA and corresponding letter is provided to the resident.

All signs are required on both sides of the road when the median is greater than 10 feet and on one way roadways.

The "WORKERS" (W21-1a(O)-48) signs shall be replaced with symbol "Right or Left Lane Closed Ahead" (W4-2R or L(O)-48) signs on multilane roadways.

When covering existing Department signs, no tape shall be used on the reflective portion of the sign. Contact the District sign shop for covering techniques.

All regulatory signs shall be maintained at a 5 foot minimum bottom (rural), 7 foot minimum (urban).

Plate altering signs shall have the same sheeting as the base sign.

No more than one (1) plate shall be used to alter a sign.

Any post stubs without a sign in place and visible shall have a reflector placed on each post.

Devices:

On all standards, the device spacing shall be revised to the following dimensions:

- Where the spacing shown on the standard is 25 feet, the devices shall be placed at 20 feet.
- Where the spacing shown on the standard is 50 feet, the devices shall be placed at 40 feet.
- Where the spacing shown on the standard is 100 feet, the devices shall be placed at 80 feet.

Direction Indicator Barricades shall exclusively be used in lane closure tapers. They shall be used only when traffic is being merged with an adjacent through lane or shifted onto a median crossover.

Vertical barricades shall not be used in weaves, and in the gore areas on Highway Standard 701411.

Vertical barricades shall not be used as a device where the existing speed limit is 65 mph.

Lights:

Steady burn mono-directional lights are required on devices delineating a widening trench.

Pavement Marking:

All temporary pavement markings that will be operational during the winter months (December through March) shall be paint.

Temporary pavement markings shall not be included in the cost of the standard rather it shall be paid for separately at the contract unit prices of specified temporary pavement marking items.

Revised 06/07/12



Standards 701400, 701401, 701402, 701406, 701411, 701416, 701421, 701422, 701423, 701426 and 701446: The Contractor shall equip all machinery and vehicles with revolving amber lights, installed so the illumination is visible from all directions.

The median crossover will generally not be available for Contractor use. It may be used only when both lanes adjacent to the median are closed. Under no condition shall left turn lanes be made to cross the median from lanes open to traffic.

Parking of personal vehicles within the interstate right of way will be strictly prohibited. Parking of construction equipment within the right of way will be permitted only at locations approved by the Engineer.

Traffic Control and Protection Standard 701456: This work shall be completed in accordance with Standard 701456 and Section 701 of the Standard Specifications.

Maintenance of Traffic: The mainline shall be kept open to one-lane of traffic in each direction at all times during working hours and all lanes open during non-working hours unless prior approval is obtained from the Resident Engineer. In addition, the existing speed limit shall be reinstated during non-working hours.

Any and all lane restrictions shall be removed and/or rescheduled if adverse weather such as rain snow or fog is present.

The installation of impact attenuators shall be completed under TRAFFIC CONTROL AND PROTECTION STANDARD 701400 & 701406.

The construction of guardrail shoulder, removal & installation of guardrail shall be completed under TRAFFIC CONTROL AND PROTECTION STANDARD 701400 & 701406 and Article 701.17(f).

Seeding, mulch application, and site cleanup shall be completed using TRAFFIC CONTROL AND PROTECTION STANDARD 701101, 701400 & 701406. The Contractor may use TRAFFIC CONTROL AND PROTECTION STANDARD 701101 or 701106 only if all equipment, materials and personnel are kept no closer than twenty-four (24") inches from the edge of traveled way.

## **GUARDRAIL REMOVAL**

Effective: August 20, 1990

Revised: August 26, 1997

This work shall be done in accordance with Section 632 of the Standard Specifications except that all removed guardrail will become the property of the Contractor.

This work will be paid for at the contract unit price per Foot for GUARDRAIL REMOVAL, measured from center-to-center of end post.

Revised 06/07/12

**ENGINEER'S FIELD OFFICE TYPE A**

Effective: January 1, 2012

Engineer's Field Office Type A shall be in accordance with Article 670.02 of the Standard Specifications:

Add (s) to the end of 670.02

(s) Cellular phone with a minimum of 500 anytime minutes per month for use by the site resident engineer/technician.

Revised 06/07/12

## **WORK RESTRICTIONS**

On I-74 from I-280 north to the Mississippi River all work requiring one lane to be closed shall be completed during daytime hours, 8:00 AM to 2:00 PM Monday through Wednesday, and from 8:00 AM to 12:00 PM Thursday. Traffic control set-up shall not begin prior to 8:00 AM on any day and shall be completely removed by 2:00 PM (12:00 PM on Thursday) that day. There are no lane closures on Friday, Saturday, and Sunday during daytime hours.

On I-80 from the I-88 interchange north to the Mississippi River (Iowa border) no lane closures will be allowed from 2:00 PM to 6:00 PM Monday through Friday. Traffic control shall be completely removed no later than 2:00 PM that day. There are no lane closures on Saturday, and Sunday during daytime hours without the prior approval from the Engineer.

No lane closures shall be allowed on interstates at nighttime hours throughout the week. During legal holidays, Section 107 of the Standard Specifications shall apply. In addition, there will be no lane closures on the Wednesday before Thanksgiving.

Work shall be restricted to multiple locations on one interstate at any given time and no more than ten (10) miles of interstate shall be under construction at any given time throughout the life of the project without prior approval from the Engineer.

Traffic control devices shall be removed from the traffic lanes and all lanes shall be opened to traffic 30 minutes after the Contractor ceases his/her work operations, or defined by work restriction hours, whichever comes first.

### **END SECTION TO BE REMOVED**

Description. This work shall consist of furnishing all labor, materials, and equipment necessary for the removal and disposal of grated end sections at locations identified on the contract plans.

General. This work shall be completed in accordance with Section 440 of the Standard Specifications and as noted herein.

Method of Measurement. Removal and disposal of existing grated end section will be measured for payment in units of Each at the location designated on the contract plans.

Basis of Payment. This work shall be paid for at the contract unit price per Each for END SECTION TO BE REMOVED at the locations designated on the plans.

Revised 06/07/12

### **PIPE UNDERDRAIN OUTLET EXTENSION FOR 4" DRAIN**

Description. This work shall consist of furnishing all labor, materials, and equipment necessary for the extension of existing pipe underdrain outlets at locations identified on the contract plans.

General. This work shall consist of the removal of existing concrete headwalls, extension of existing pipe underdrain (Special) outlets with an acceptable coupler to the proposed foreslope, and the installation of a new concrete headwall. This work shall be completed in accordance with Section 601 of the Standard Specifications and as noted herein.

Method of Measurement. This work will be measured for payment in units of Each at the locations designated on the contract plans.

Basis of Payment. This work shall be paid for at the contract unit price per Each for PIPE UNDERDRAIN OUTLET EXTENSION FOR 4" DRAIN at the locations designated on the plans.

### **GUARD POST REMOVAL**

Description. This work shall consist of furnishing all labor, materials, and equipment necessary for the removal and disposal of guard posts at pier locations identified on the contract plans.

General. This work shall be completed in accordance with Section 632 of the Standard Specifications and as noted herein. All guard posts removed shall become the property of the Contractor. All guard posts within the limits of the attenuator base location shall not be cut off a minimum of six (6) inches below the ground surface but shall be completely removed unless prior approval by the ENGINEER has been obtained.

Method of Measurement. Removal and disposal of existing guard posts shall be measured for payment in units of EACH at the location designated on the contract plans.

Basis of Payment. This work shall be paid for at the contract unit price per Each for GUARD POST REMOVAL at the locations designated on the plans.

### **FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC**

Should the Contractor fail to completely open and keep open all the traffic lanes to traffic in accordance with the limitations specified under the Special Provision for Work Restrictions, the Contractor shall be liable to the Department for the amount of:

One Lane Blocked = \$1,000

The Contractor shall perform his/her work in such a manner that the lane closures are opened to traffic at 2:00 PM Monday through Wednesday (12:00 PM Thursday) on Interstate 74. On Interstate 80 the Contractor shall perform his/her work in such a manner that lane closures are opened to traffic at 2:00 PM Monday through Friday. If the Contractor fails to open a closed lane(s) by the specified time, the Contractor shall be charged liquidated damages by the Department for One Thousand Dollars (\$1,000), and an additional Two Hundred Fifty Dollars (\$250) for every 15 minute increment the lane remains closed beyond the specified time. The liquidated damages shall apply each time a lane closure exceeds 15 minutes.

Revised 06/07/12

## **CONSTRUCTION AIR QUALITY - DIESEL VEHICLE EMISSIONS CONTROL (BDE)**

Effective: April 1, 2009

Revised: January 2, 2012

Diesel Vehicle Emissions Control. The reduction of construction air emissions shall be accomplished by using cleaner burning diesel fuel. The term "equipment" refers to any and all diesel fuel powered devices rated at 50 hp and above, to be used on the project site in excess of seven calendar days over the course of the construction period on the project site (including any "rental" equipment).

All equipment on the jobsite, with engine ratings of 50 hp and above, shall be required to: use Ultra Low Sulfur Diesel fuel (ULSD) exclusively (15 ppm sulfur content or less).

Diesel powered equipment in non-compliance will not be allowed to be used on the project site, and is also subject to a notice of non-compliance as outlined below.

The Contractor shall certify that only ULSD will be used in all jobsite equipment. The certification shall be presented to the Department prior to the commencement of the work.

If any diesel powered equipment is found to be in non-compliance with any portion of this specification, the Engineer will issue the Contractor a notice of non-compliance and identify an appropriate period of time, as outlined below under environmental deficiency deduction, in which to bring the equipment into compliance or remove it from the project site.

Any costs associated with bringing any diesel powered equipment into compliance with these diesel vehicle emissions controls shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall also not be grounds for a claim.

Environmental Deficiency Deduction. When the Engineer is notified, or determines that an environmental control deficiency exists, he/she will notify the Contractor in writing, and direct the Contractor to correct the deficiency within a specified time period. The specified time-period, which begins upon Contractor notification, will be from 1/2 hour to 24 hours long, based on the urgency of the situation and the nature of the deficiency. The Engineer shall be the sole judge regarding the time period.

The deficiency will be based on lack of repair, maintenance and diesel vehicle emissions control.

Revised 06/07/12

### **TRAFFIC BARRIER TERMINAL REMOVAL, TYPE I**

Description. This work shall consist of furnishing all labor, materials, and equipment necessary for the removal and disposal of Traffic Barrier Terminal Type I at locations identified on the contract plans.

General. This work shall be completed in accordance with Section 632 of the Standard Specifications and as noted herein. All posts shall be completely removed unless approval to remain in place (6 in. below existing ground surface) has been attained by the Engineer.

Method of Measurement. This work will be measured for payment per foot.

Basis of Payment. This work shall be paid for at the contract unit price per Foot for GUARDRAIL REMOVAL, at the locations designated on the plans.

### **TRAFFIC BARRIER TERMINAL REMOVAL, TYPE II**

Description. This work shall consist of furnishing all labor, materials, and equipment necessary for the removal and disposal of Traffic Barrier Terminal Type II at locations identified on the contract plans.

General. This work shall be completed in accordance with Section 632 of the Standard Specifications and as noted herein. All posts shall be completely removed unless approval to remain in place (6 in. below existing ground surface) has been attained by the Engineer.

Method of Measurement. This work will be measured for payment per foot.

Basis of Payment. This work shall be paid for at the contract unit price per Foot for GUARDRAIL REMOVAL, at the locations designated on the plans.

### **HOT-MIX ASPHALT MIXTURE IL-9.5FG (BMPR)**

Effective: July 1, 2005

Revised: March 1, 2010

Description. This work shall consist of constructing fine graded hot-mix asphalt (HMA) surface course or leveling binder with an IL-9.5FG mixture. Work shall be according to Sections 406, 407 and 1030 of the Standard Specifications, except as modified herein.

Materials. Revise Article 1003.03(c) of the Standard Specifications to read:

“(c) Gradation. The fine aggregate gradation for all HMA shall be FA 1, FA 2, FA 20, or FA 21. For mixture IL-9.5FG, the fine aggregate fraction shall consist of at least 67 percent manufactured sand meeting FA 20 gradation. The manufactured sand shall be stone sand, slag sand, steel slag sand, or combinations thereof.”

Added 06/07/12

Mixture Design. Add the following to the table in Article 1030.04(a)(1):

High ESAL, MIXTURE COMPOSITION (% PASSING) <sup>1/</sup>		
Sieve Size	IL-9.5FG	
	min	max
1 1/2 in (37.5 mm)		
1 in. (25 mm)		
3/4 in. (19 mm)		
1/2 in. (12.5 mm)		100
3/8 in. (9.5 mm)	90	100
#4 (4.75 mm)	60 <sup>4/</sup>	75 <sup>4/</sup>
#8 (2.36 mm)	45 <sup>4/</sup>	60 <sup>4/</sup>
#16 (1.18 mm)	25	40
#30 (600 μm)	15	30
#50 (300 μm)	8	15
#100 (150 μm)	6	10
#200 (75 μm)	4	6.5
Ratio Dust/Asphalt Binder		1.0

4/ When used as level binder placed equal to or less than 1 inch thick, the min and max percent passing shall each be increased 5%.

Revise the table in Article 1030.04(b)(1) of the Standard Specifications to read:

VOLUMETRIC REQUIREMENTS High ESAL					
Ndesign	Voids in the Mineral Aggregate (VMA), % minimum				Voids Filled with Asphalt Binder (VFA), %
	IL-25.0	IL-19.0	IL-12.5	IL-9.5	
50	12.0	13.0	14.0	15 <sup>1/</sup>	65 - 78
70					65 - 75 <sup>2/</sup>
90					
105					

1/ The VMA for IL-9.5FG shall be a minimum of 15.0 percent.

2/ The VFA range for IL-9.5FG shall be 65 - 78 percent.

Added 06/07/12

Quality Control/Quality Assurance (QC/QA). Revise the second table in Article 1030.05(d)(4) to read:

DENSITY CONTROL LIMITS			
Mixture Composition		Parameter	Individual Test
IL-9.5FG	Lifts < 1.25 in. (32 mm)	N <sub>design</sub> 50 - 105	91.0 – 97.0% <sup>2/</sup>
	Lifts ≥ 1.25 in. (32 mm)	N <sub>design</sub> 50 - 105	93.0 – 97.0%
IL-9.5, IL-12.5		N <sub>design</sub> ≥ 90	92.0 – 96.0 %
IL-9.5, IL-9.5L, IL-12.5		N <sub>design</sub> < 90	92.5 – 97.4 %
IL-19.0, IL-25.0		N <sub>design</sub> ≥ 90	93.0 – 96.0 %
IL-19.0, IL-19.0L, IL-25.0		N <sub>design</sub> < 90	93.0 – 97.4 %
All Other		N <sub>design</sub> = 30	93.0 <sup>1/</sup> - 97.4 %

1/ 92.0 % when placed as first lift on an unimproved subgrade.

2/ Based on core density test results.

### CONSTRUCTION REQUIREMENTS

Leveling Binder. Revise the table and second paragraph of Article 406.05(c) of the Standard Specifications to read:

Leveling Binder	
Nominal, Compacted, Leveling Binder Thickness, in. (mm)	Mixture Composition
≤ 1 1/4 (32)	IL-9.5, IL-9.5 FG, or IL-9.5L
> 1 1/4 to 2 (32 to 50)	IL-9.5, IL-9.5FG, IL-9.5L, or IL-12.5

The density requirements of Article 1030.05(d)(4) shall apply for leveling binder, machine method, when the nominal, compacted thickness is: ¾ in. or greater for IL-9.5FG mixtures, 1¼ in. or greater for IL-9.5 and IL-9.5L mixtures, and 1½ in. or greater for IL-12.5 mixtures.

Compaction. Add the following footnote 4/ for “V<sub>D</sub>” in the “Breakdown Roller” column of Table 1 in Article 406.07 of the Standard Specifications:

“4/ Vibratory rolling will not be permitted for IL-9.5FG leveling binder.”

Delete footnote 3/ from Table 1 of Article 406.07 of the Standard Specifications.

Basis of Payment. Add the following two paragraphs after the third paragraph of Article 406.14 of the Standard Specifications:

”Mixture IL-9.5FG will be paid for at the contract unit price per Ton for LEVELING BINDER (HAND METHOD), IL-9.5FG, of the N<sub>design</sub> specified; LEVELING BINDER (MACHINE METHOD), IL-9.5FG, of the N<sub>design</sub> specified; or HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, of the N<sub>design</sub> specified.

Added 06/07/12



Mixture IL-9.5FG in which polymer modified asphalt binders are required will be paid for at the contract unit price per Ton for POLYMERIZED LEVELING BINDER (HAND METHOD), IL-9.5FG, of the Ndesign specified; POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-9.5FG, of the Ndesign specified; or POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, of the Ndesign specified.”

## **TRAFFIC CONTROL SURVEILLANCE**

Effective: January 1, 2011

Revise the first sentence of the first paragraph of Article 701.10 of the Standard Specifications to read:

“When open holes, broken pavement, trenches over 3 in. deep and 4 in. wide or other hazards are present within 8 ft of the edge of an open lane, the Contractor shall furnish traffic control surveillance at all times, whether or not the Contractor is engaged in construction operations.”

Added 06/07/12

**STORM WATER POLLUTION PREVENTION PLAN**



**Storm Water Pollution Prevention Plan**

Route	<u>FAI 74, FAI 80, FAI 88 and FAI 280</u>	Marked Rte.	<u>I-74, I-80, I-88 and I-280</u>
Section	<u>D2 SAFETY 2012-2</u>	Project No.	<u>P-92-052-12/D-92-052-12</u>
County	<u>Henry, Rock Island and Whiteside</u>	Contract No.	<u>64H77</u>

This plan has been prepared to comply with the provisions of the National Pollutant Discharge Elimination System (NPDES) Permit No. ILR10 (Permit ILR10), issued by the Illinois Environmental Protection Agency (IEPA) for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Eric Therkildsen  
 Print Name  
Deputy Director of Highways, Acting Region 2 Engineer  
 Title  
Illinois Department of Transportation  
 Agency

Eric S. Therkildsen  
 Signature  
MAY 1, 2012  
 Date

**I. Site Description:**

- A. Provide a description of the project location (include latitude and longitude):  
 Various locations in the center median and within 30' of edge of traveled way along select interstates
- B. Provide a description of the construction activity which is the subject of this plan:  
 Installation of safety items such as sand module impact attenuators, 24" pipe culvert with end sections, and guardrail in select locations. Anticipate earthwork operations, minimal concrete and/or HMA construction, erosion control, and seeding-mulching.
- C. Provide the estimated duration of this project:  
 Approximately 70 working days
- D. The total area of the construction site is estimated to be 10.75 acres.  
 The total area of the site estimated to be disturbed by excavation, grading or other activities is 10.75 acres.
- E. The following is a weighted average of the runoff coefficient for this project after construction activities are completed:  
 N/A
- F. List all soils found within project boundaries. Include map unit name, slope information, and erosivity:  
 N/A
- G. Provide an aerial extent of wetland acreage at the site:  
 N/A

- H. Provide a description of potentially erosive areas associated with this project:  
Any areas disrupted by construction activity
- I. The following is a description of soil disturbing activities by stages, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):  
Topsoil stripping operations, culvert installation, final grading, seeding/mulching areas
- J. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands) and locations where storm water is discharged to surface water including wetlands.
- K. Identify who owns the drainage system (municipality or agency) this project will drain into:  
State
- L. The following is a list of receiving water(s) and the ultimate receiving water(s) for this site. The location of the receiving waters can be found on the erosion and sediment control plans:  
N/A
- M. Describe areas of the site that are to be protected or remain undisturbed. These areas may include steep slopes, highly erodible soils, streams, stream buffers, specimen trees, natural vegetation, nature preserves, etc.  
All areas not effected by construction activities in select locations
- N. The following sensitive environmental resources are associated with this project, and may have the potential to be impacted by the proposed development:
- Floodplain
  - Wetland Riparian
  - Threatened and Endangered Species
  - Historic Preservation
  - 303(d) Listed receiving waters for suspended solids, turbidity, or siltation
  - Receiving waters with Total Maximum Daily Load (TMDL) for sediment, total suspended solids, turbidity or siltation
  - Applicable Federal, Tribal, State or Local Programs
  - Other
1. 303(d) Listed receiving waters (fill out this section if checked above):  
N/A
- a. The name(s) of the listed water body, and identification of all pollutants causing impairment:  
N/A
  - b. Provide a description of how erosion and sediment control practices will prevent a discharge of sediment resulting from a storm event equal to or greater than a twenty-five (25) year, twenty-four (24) hour rainfall event:
  - c. Provide a description of the location(s) of direct discharge from the project site to the 303(d) water body:
  - d. Provide a description of the location(s) of any dewatering discharges to the MS4 and/or water body:

2. TMDL (fill out this section if checked above)
- a. The name(s) of the listed water body:
  
  - b. Provide a description of the erosion and sediment control strategy that will be incorporated into the site design that is consistent with the assumptions and requirements of the TMDL:
  
  - c. If a specific numeric waste load allocation has been established that would apply to the project's discharges, provide a description of the necessary steps to meet that allocation:

O. The following pollutants of concern will be associated with this construction project:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Soil Sediment             | <input checked="" type="checkbox"/> Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids) |
| <input checked="" type="checkbox"/> Concrete                  | <input type="checkbox"/> Antifreeze / Coolants   |
| <input checked="" type="checkbox"/> Concrete Truck Waste      | <input type="checkbox"/> Waste water from cleaning construction equipment                          |
| <input checked="" type="checkbox"/> Concrete Curing Compounds | <input type="checkbox"/> Other (specify)   |
| <input type="checkbox"/> Solid Waste Debris                   | <input type="checkbox"/> Other (specify)   |
| <input type="checkbox"/> Paints                               | <input type="checkbox"/> Other (specify)   |
| <input type="checkbox"/> Solvents                             | <input type="checkbox"/> Other (specify)   |
| <input checked="" type="checkbox"/> Fertilizers / Pesticides  | <input type="checkbox"/> Other (specify)   |

II. Controls:

This section of the plan addresses the controls that will be implemented for each of the major construction activities described in I.C. above and for all use areas, borrow sites, and waste sites. For each measure discussed, the Contractor will be responsible for its implementation as indicated. The Contractor shall provide to the Resident Engineer a plan for the implementation of the measures indicated. The Contractor, and subcontractors, will notify the Resident Engineer of any proposed changes, maintenance, or modifications to keep construction activities compliant with the Permit ILR10. Each such Contractor has signed the required certification on forms which are attached to, and are a part of, this plan:

A. Erosion and Sediment Controls

1. **Stabilized Practices:** Provided below is a description of interim and permanent stabilization practices, including site specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in II(A)(1)(a) and II(A)(3), stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven (7) days after the construction activity in that portion of the site has temporarily or permanently ceases on all disturbed portions of the site where construction will not occur for a period of fourteen (14) or more calendar days.

Where the initiation of stabilization measures by the seventh day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

The following stabilization practices will be used for this project:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Preservation of Mature Vegetation | <input checked="" type="checkbox"/> Erosion Control Blanket / Mulching |
| <input type="checkbox"/> Vegetated Buffer Strips                      | <input type="checkbox"/> Sodding                                       |
| <input type="checkbox"/> Protection of Trees                          | <input type="checkbox"/> Geotextiles                                   |
| <input checked="" type="checkbox"/> Temporary Erosion Control Seeding | <input type="checkbox"/> Other (specify)                               |
| <input type="checkbox"/> Temporary Turf (Seeding, Class 7)            | <input type="checkbox"/> Other (specify)                               |
| <input type="checkbox"/> Temporary Mulching                           | <input type="checkbox"/> Other (specify)                               |
| <input checked="" type="checkbox"/> Permanent Seeding                 | <input type="checkbox"/> Other (specify)                               |

Describe how the stabilization practices listed above will be utilized during construction:

Disturbance to areas outside the designated construction limits shall be minimized to the maximum extent possible. All disturbed areas shall receive temporary erosion control seeding in accordance with the current Standard Specifications for Road and Bridge Construction manual. Once all construction activities have been completed permanent stabilization practices such as permanent seeding and mulch shall be applied to all disturbed areas.

Describe how the stabilization practices listed above will be utilized after construction activities have been completed:

Final seed and mulch shall be applied when all construction activity has been completed. Inlet and pipe protection, ditch checks, and perimeter erosion barrier will remain in place until a minimum of 75% of the site exhibits established growth

2. **Structural Practices:** Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The following structural practices will be used for this project:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Perimeter Erosion Barrier    | <input type="checkbox"/> Rock Outlet Protection  |
| <input checked="" type="checkbox"/> Temporary Ditch Check        | <input type="checkbox"/> Riprap                  |
| <input checked="" type="checkbox"/> Storm Drain Inlet Protection | <input type="checkbox"/> Gabions                 |
| <input type="checkbox"/> Sediment Trap                           | <input type="checkbox"/> Slope Mattress          |
| <input type="checkbox"/> Temporary Pipe Slope Drain              | <input type="checkbox"/> Retaining Walls         |
| <input type="checkbox"/> Temporary Sediment Basin                | <input type="checkbox"/> Slope Walls             |
| <input type="checkbox"/> Temporary Stream Crossing               | <input type="checkbox"/> Concrete Revetment Mats |
| <input type="checkbox"/> Stabilized Construction Exits           | <input type="checkbox"/> Level Spreaders         |
| <input type="checkbox"/> Turf Reinforcement Mats                 | <input type="checkbox"/> Other (specify)         |
| <input type="checkbox"/> Permanent Check Dams                    | <input type="checkbox"/> Other (specify)         |
| <input type="checkbox"/> Permanent Sediment Basin                | <input type="checkbox"/> Other (specify)         |
| <input type="checkbox"/> Aggregate Ditch                         | <input type="checkbox"/> Other (specify)         |
| <input type="checkbox"/> Paved Ditch                             | <input type="checkbox"/> Other (specify)         |

Describe how the structural practices listed above will be utilized during construction:

All pipe culverts and inlets will be protected with inlet protection devices; ditches will have ditch checks at the appropriate spacing.

Describe how the structural practices listed above will be utilized after construction activities have been completed:

Once all construction activities have been completed inlet and pipe protection, and ditch checks shall remain in place until a minimum of 75% percent of the construction site exhibits uniform growth over the entire area disturbed.

3. **Storm Water Management:** Provided below is a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

- a. Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).

The practices selected for implementation were determined on the basis of the technical guidance in Chapter 41 (Construction Site Storm Water Pollution Control) of the IDOT Bureau of Design and Environment Manual. If practices other than those discussed in Chapter 41 are selected for implementation or if practices are applied to situations different from those covered in Chapter 41, the

technical basis for such decisions will be explained below.

- b. Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

Description of storm water management controls:

A series of inlet and pipe protection, temporary ditch checks, and seeding

4. **Approved State or Local Laws:** The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI, to be authorized to discharge under the Permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials:

All pipe culverts and inlets will be protected with inlet protection devices; ditches will have ditch checks at the appropriate spacing.

Final seed and mulch shall be applied when all construction activity has been completed. Inlet and pipe protection, ditch checks, and perimeter erosion barrier will remain in place until a minimum of 75% of the site exhibits established growth.

5. **Contractor Required Submittals:** Prior to conducting any professional services at the site covered by this plan, the Contractor and each subcontractor responsible for compliance with the permit shall submit to the Resident Engineer a Contractor Certification Statement, BDE 2342a.

- a. The Contractor shall provide a construction schedule containing an adequate level of detail to show major activities with implementation of pollution prevention BMPs, including the following items:

- Approximate duration of the project, including each stage of the project
- Rainy season, dry season, and winter shutdown dates
- Temporary stabilization measures to be employed by contract phases
- Mobilization timeframe
- Mass clearing and grubbing/roadside clearing dates
- Deployment of Erosion Control Practices
- Deployment of Sediment Control Practices (including stabilized construction entrances/exits)
- Deployment of Construction Site Management Practices (including concrete washout facilities, chemical storage, refueling locations, etc.)
- Paving, saw-cutting, and any other pavement related operations
- Major planned stockpiling operations
- Timeframe for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.
- Permanent stabilization activities for each area of the project

- b. The Contractor and each subcontractor shall provide, as an attachment to their signed Contractor Certification Statement, a discussion of how they will comply with the requirements of the permit in regard to the following items and provide a graphical representation showing location and type of BMPs to be used when applicable:

- Vehicle Entrances and Exits – Identify type and location of stabilized construction entrances and exits to be used and how they will be maintained.
- Material Delivery, Storage and Use – Discuss where and how materials including chemicals, concrete curing compounds, petroleum products, etc. will be stored for this project.
- Stockpile Management – Discuss what BMPs will be used to prevent pollution of storm water from stockpiles.
- Waste Disposal – Discuss methods of waste disposal that will be used for this project.
- Spill Prevention and Control – Discuss steps that will be taken in the event of a material spill (chemicals, concrete curing compounds, petroleum, etc.)
- Concrete Residuals and Washout Wastes – Discuss the location and type of concrete washout facilities to be

used on this project and how they will be signed and maintained.

- Litter Management – Discuss how litter will be maintained for this project (education of employees, number of dumpsters, frequency of dumpster pick-up, etc.).
- Vehicle and Equipment Fueling – Identify equipment fueling locations for this project and what BMPs will be used to ensure containment and spill prevention.
- Vehicle and Equipment Cleaning and Maintenance – Identify where equipment cleaning and maintenance locations for this project and what BMPs will be used to ensure containment and spill prevention.
- Additional measures indicated in the plan.

### III. Maintenance:

When requested by the Contractor, the Resident Engineer will provide general maintenance guides to the Contractor for the practices associated with this project. The following additional procedures will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective measures identified in this plan. It will be the Contractor's responsibility to attain maintenance guidelines for any manufactured BMPs which are to be installed and maintained per manufacture's specifications.

Contractors shall be required to perform maintenance in accordance with all contract documents as well as manufacturer specifications.

### IV. Inspections:

Qualified personnel shall inspect disturbed areas of the construction site which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site using IDOT Storm Water Pollution Prevention Plan Erosion Control Inspection Report (BC 2259). Such inspections shall be conducted at least once every seven (7) calendar days and within twenty-four (24) hours of the end of a storm that is 0.5 inch or greater or equivalent snowfall.

If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer shall notify the appropriate IEPA Field Operations Section office by email at: [epa\\_swnoncomp@illinois.gov](mailto:epa_swnoncomp@illinois.gov), telephone or fax within twenty-four (24) hours of the incident. The Resident Engineer shall then complete and submit an "Incidence of Non-Compliance" (ION) report for the identified violation within five (5) days of the incident. The Resident Engineer shall use forms provided by IEPA and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of non-compliance shall be signed by a responsible authority in accordance with Part VI. G of the Permit ILR10.

The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Attn: Compliance Assurance Section  
1021 North Grand East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

### V. Failure to Comply:

Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of a National Pollutant Discharge Elimination System/Erosion and Sediment Control Deficiency Deduction against the Contractor and/or penalties under the Permit ILR10 which could be passed on to the Contractor.



**Contractor Certification Statement**

Prior to conducting any professional services at the site covered by this contract, the Contractor and every subcontractor must complete and return to the Resident Engineer the following certification. A separate certification must be submitted by each firm. Attach to this certification all items required by Section II.5 of the Storm Water Pollution Prevention Plan (SWPPP) which will be handled by the Contractor/subcontractor completing this form.

Route	<u>FAI-74, FAI-80, FAI-88 and FAI-280</u>	Marked Rte.	<u>I-74, I-80, I-88 and I-280</u>
Section	<u>D2 SAFETY 2012-2</u>	Project No.	<u>P-92-052-12/D-92-052-12</u>
County	<u>Henry, Rock Island and Whiteside</u>	Contract No.	<u>64H77</u>

This certification statement is a part of the SWPPP for the project described above, in accordance with the General NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency.

I certify under penalty of law that I understand the terms of the Permit No. ILR 10 that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

In addition, I have read and understand all of the information and requirements stated in the SWPPP for the above mentioned project; I have received copies of all appropriate maintenance procedures; and, I have provided all documentation required to be in compliance with the Permit ILR10 and SWPPP and will provide timely updates to these documents as necessary.

- Contractor
- Sub-Contractor

_____	_____
Print Name	Signature
_____	_____
Title	Date
_____	_____
Name of Firm	Telephone
_____	_____
Street Address	City/State/ZIP

Items which this Contractor/subcontractor will be responsible for as required in Section II.5. of the SWPPP:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Added 06/07/12