October 24, 2006

SUBJECT: Pine and Eldorado Streets

Project BHOS-D1(556)

Section 00-00094-03BR (Winnetka)

**Cook County** 

Contract No. 83850

Item 042A

November 17, 2006 Letting

### TO PROSPECTIVE BIDDERS:

To clarify information it is necessary to revise the following:

# SPECIAL PROVISIONS:

- 1. PAGE 2 OF LOCAL AGENCY INDEX OF SPECIAL PROVISIONS HAS ADDED THE "USE OF RAP (BMPR)" SPECIAL PROVISION.
- 2. PAGE 1 OF BDE SPECIAL PROVISIONS INDEX HAS CHANGED PAGE NUMBER 69 TO PAGE 62 FOR BDE 80029, "DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION".
- 3. PAGE 2 OF BDE SPECIAL PROVISIONS INDEX HAS REMOVED PAGE NUMBER 94 AND CHECK MARK FROM BDE 80011, "RAP FOR USE IN BITUMINOUS CONCRETE MIXTURES".
- 4. REMOVED EXISTING PAGES 94 97 AND REPLACED WITH ATTACHED PAGES 94-97A.

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.

Since the proposal sheets are printed back to back, bidders are cautioned to exercise care when inserting revised and/or added special provisions into their proposals.

Please call 217-782-7806 if any of the above-described material is not included in this transmittal.

Very truly yours,

Michael L. Hine Engineer of Design and Environment

Bv: Ted B. Walschleger, P. E.

Ted Deluklyon BE.

**Engineer of Project Management** 

FRAFFIC CONTROL PLAN16
TRAFFIC CONTROL AND PROTECTION16
HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER20
AGGREGATE SURFACE COURSE, TYPE B20
TEST HOLES22
CONSTRUCTION LAYOUT22
FURNISHING AND ERECTING STRUCTURAL STEEL (SPECIAL) BRIDGE NO. 1
FURNISHING AND ERECTING STRUCTURAL STEEL (SPECIAL) BRIDGE NO. 223
HOT DIP GALVANIZING FOR STRUCTURAL STEEL23
CONCRETE BARRIER WALL (SPECIAL)28
BRIDGE APPROACH PAVEMENT (SPECIAL)
USE OF RAP (BMPR)
TRAFFIC SIGNAL SPECIFICATIONS (DISTRICT 1)TS-1 - TS-31
EXHIBIT C - UNION PACIFIC RAILROAD AGREEMENT
NAPROJ3278\_Common\ContractDocuments\Specs\3278-Special Provisions.doc  **Revised 10-24-06**

BDE SPECIAL PROVISIONS
For The November 17, 2006 Letting
The following special provisions indicated by an "x" are applicable to this contract. An \* indicates a new or revised special provision for the letting.

<u>File Name</u>	<u>PG</u> #		Special Provision Title	<u>Effective</u>	Revised
80099	<u>11</u>		Accessible Pedestrian Signals (APS)	April 1, 2003	
	32	X	Aggregate Shipping Tickets	Jan. 1, 2006	
80108			Asbestos Bearing Pad Removal	Nov. 1, 2003	
725 <b>4</b> I			Asbestos Waterproofing Membrane and Asbestos Bituminous	June 1, 1989	June 30,1994
			Concrete Surface Removal	•	
80128	33	X	Authority of Railroad Engineer	July 1, 2004	
	34	<u>X</u>	Bituminous Base Course/Widening Superpave	April 1, 2002	Aug. 1, 2005
	40	<u> </u>	Bituminous Concrete Surface Course	April 1, 2001	April 1, 2003
		X	Bituminous Equipment, Spreading and Finishing Machine	Jan. 1, 2005	
80066	42	<u> </u>	Bridge Deck Construction	April 1, 2002	April 1, 2004
50261			Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	Aug. 1, 2001
50481			Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	Aug. 1, 2001
5049I		ļ	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	Aug. 1, 2001
5053I 80118		<u> </u>	Building Removal-Case IV (No Asbestos) Butt Joints	Sept. 1, 1990 April 1, 2004	Aug. 1, 2001 April 1, 2005
80031			Calcium Chloride Accelerator for Portland Cement Concrete Patching	Jan. 1, 2004	April 1, 2005
80077			Chair Supports	Nov. 1, 2002	Nov. 2, 2002
80051			Coarse Aggregate for Trench Backfill, Backfill and Bedding	April 1, 2001	Nov. 1, 2003
80094	44	Х	Concrete Admixtures	Jan. 1, 2003	July 1, 2004
80112		X	Concrete Barrier	Jan. 1, 2004	April 2, 2004
80102		<u> </u>	Corrugated Metal Pipe Culverts	Aug. 1, 2003	July 1, 2004
80114	52	Х	Curing and Protection of Concrete Construction	Jan. 1, 2004	Nov. 1, 2005
80146	60	Х	Detectable Warnings	Aug 1 2005	•
(80029	62	X	Disadvantaged Business Enterprise Participation Revised 10-24	Sept. 1, 2000	June 22, 2005
80144	70	X	Elastomeric Bearings	April 1, 2005	
31578			Epoxy Coating on Reinforcement	April 1, 1997	Jan. 1, 2003
80041	75	X	Epoxy Pavement Marking	Jan. 1, 2001	Aug. 1, 2003
80055	77	X	Erosion and Sediment Control Deficiency Deduction	Aug. 1, 2001	Nov. 1, 2001
80103	78	X	Expansion Joints	Aug. 1, 2003	1 4 0000
80101	79	X	Flagger Vests	April 1, 2003	Jan. 1, 2006
80079 80072	80	<u>X</u>	Freeze-Thaw Rating Furnished Excavation	Nov. 1, 2002	Nov. 1, 2004
80072	81	X	Hand Vibrator	Aug. 1, 2002 Nov. 1, 2003	Nov. 1, 2004
80147	ОТ	<del>  ^-</del>	Illuminated Sign	Aug. 1, 2005	
80109			Impact Attenuators	Nov. 1, 2003	Aug. 1, 2006
80110			Impact Attenuators, Temporary	Nov. 1, 2003	Aug. 1, 2006 Aug. 1, 2006
80104	82	X	Inlet Filters	Aug. 1, 2003	Aug. 1, 2000
80080	02		Insertion Lining of Pipe Culverts	Nov. 1, 2002	Aug. 1, 2003
80150			Light Emitting Diode (LED) Pedestrian Signal Head	Nov. 1, 2005	April 1, 2006
80067			Light Emitting Diode (LED) Signal Head	April 1, 2002	Nov. 1, 2005
80081			Lime Gradation Requirements	Nov. 1, 2002	,
80133			Lime Stabilized Soil Mixture	Nov. 1, 2004	April 1, 2006
80158			Manholes	April 1, 2006	
* 80045	of Pari	100			March 1, 2001
80137	mrhitanis various social		Minimum Lane Width with Lane Closure	Jan. 1, 2005	
* 80165					
80138			Mulching Seeded Areas	Jan. 1, 2005	
80082			Multilane Pavement Patching	Nov. 1, 2002	
80129	004	<del> </del>	Notched Wedge Longitudinal Joint	July 1, 2004 Nov. 1, 2001	Aug 1 2002
80069	83A		Organic Zinc-Rich Paint System	1407. 1, 2001	Aug. 1, 2003

File Name	<u>PG</u> #		Special Provision Title	<u>Effective</u>	Revised
80116	<u></u> 84	X	Partial Payments	Sept. 1, 2003	
80013	•		Pavement and Shoulder Resurfacing	Feb. 1, 2000	July 1, 2004
53600			Pavement Thickness Determination for Payment	April 1, 1999	Jan. 1, 2004
80022	85	X	Payments to Subcontractors	June 1, 2000	Jan. 1, 2006
80155	87	Х	Payrolls and Payroll Records	Aug. 10, 2005	
80130	89	Х	Personal Protective Equipment	July 1, 2004	
80148			Planting Woody Plants	Jan. 1, 2006	
80134			Plastic Blockouts for Guardrail	Nov. 1, 2004	
80073			Polymer Modified Emulsified Asphalt	Nov. 1, 2002	
80119			Polyurea Pavement Marking	April 1, 2004	
80124			Portable Changeable Message Signs	Nov. 1, 1993	April 2, 2004
80139	90	X	Portland Cement	Jan. 1, 2005	Nov. 1, 2005
80083	91	Х	Portland Cement Concrete	Nov. 1, 2002	
80036			Portland Cement Concrete Patching	Jan. 1, 2001	Jan. 1, 2004
419			Precast Concrete Products	July 1, 1999	Nov. 1, 2004
80120			Precast, Prestressed Concrete Members	April 1, 2004	
80084			Preformed Recycled Rubber Joint Filler	Nov. 1, 2002	
80015			Public Convenience and Safety	Jan. 1, 2000	
80121			PVC Pipeliner	April 1, 2004	April 1, 2005
80159			Railroad Flaggers	April 1, 2006	
80122			Railroad, Full-Actuated Controller and Cabinet	April 1, 2004	
34261			Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	92	X	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80105			Raised Reflective Pavement Markers (Bridge)  RAP for Use in Bituminous Concrete Mixtures  A Revise 4 10 - 24-0	Aug. 1, 2003	4 "4 0000
(80011	~		RAP for Use in Bituminous Concrete Mixtures   Kevisea 10 24-1	Jan. 1, 2000	April 1, 2002
80160	00	<u> </u>	Reflective Crack Control Treatment	April 1, 2006	Aug. 1, 2006
80151	98	Х	Reinforcement Bars	Nov. 1, 2005	Nov. 2, 2005
80164			Removal and Disposal of Regulated Substances	Aug. 1, 2006	lon 1 200E
80032			Remove and Re-Erect Steel Plate Beam Guardrail and Traffic Barrier	Jan. 1, 2001	Jan. 1, 2005
		<u> </u>	Terminals	Nov. 1, 2002	
80085	แหน่อาการ	Mes Value	Sealing Abandoned Water Wells Seeding and Sodding		∥ Nov-1, 2006
80152	103	X	Self-Consolidating Concrete for Cast-In-Place Construction	Nov. 1, 2005	PRINCAL PROPERTY OF THE PROPER
80132	100	┝ˆ	Self-Consolidating Concrete for Precast Products	July 1, 2004	Nov. 1, 2005
80096			Shoulder Rumble Strips	Jan. 1, 2003	1107. 1, 2000
80140		<u> </u>	Shoulder Stabilization at Guardrail	Jan. 1, 2005	
80135			Soil Modification	Nov. 1, 2004	April 1, 2006
80070			Stabilized Subbase and Bituminous Shoulders Superpave	April 1, 2002	Aug. 1, 2005
80127			Steel Cost Adjustment	April 2, 2004	July 1, 2004
80153			Steel Plate Beam Guardrail	Nov. 1, 2005	Aug. 1, 2006
80143	109	X	Subcontractor Mobilization Payments	April 2, 2005	•
80086	110	X	Subgrade Preparation	Nov. 1, 2002	
80136			Superpave Bituminous Concrete Mixture IL-4.75	Nov. 1, 2004	
80010	111	X	Superpave Bituminous Concrete Mixtures	Jan. 1, 2000	April 1, 2004
80039			Superpave Bituminous Concrete Mixtures (Low ESAL)	Jan. 1, 2001	April 1, 2004
80075			Surface Testing of Pavements	April 1, 2002	Nov. 1, 2005
80145			Suspension of Slipformed Parapets	June 11, 2004	
80092			Temporary Concrete Barrier	Oct. 1, 2002	Nov. 1, 2003
80087	118	Х	Temporary Erosion Control	Nov. 1, 2002	
80008			Temporary Module Glare Screen System	Jan. 1, 2000	
80106			Temporary Portable Bridge Traffic Signals	Aug. 1, 2003	
80098			Traffic Barrier Terminals	Jan. 1, 2003	
57291	120	Х	Traffic Control Deficiency Deduction	April 1, 1992	Jan. 1, 2005
80161			Traffic Signal Grounding	April 1, 2006	
20338	121	<u>X</u>	Training Special Provisions	Oct. 15, 1975	

# **USE OF RAP (BMPR)**

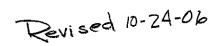
Effective: January 1, 2000 Revised: July 1, 2006

Revise Article 1004.07 to read:

"1004.07 RAP Materials. RAP is reclaimed asphalt pavement resulting from cold milling or crushing of an existing dense graded hot-mix asphalt pavement. RAP must originate from routes or airfields under federal, state or local agency jurisdiction. The Contractor shall supply documentation that the RAP meets these requirements.

- (a) Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP will be allowed on top of the pile after the pile has been sealed. All stockpiles shall be free from contaminants listed in Article 1004.07(b).
  - (1) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I/ Superpave, or equivalent mixtures only and represent the same aggregate quality, but shall be at least C quality or better, the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag), similar gradation and similar AC content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogenous", with a quality rating dictated by the lowest coarse aggregate quality present in the mixture. Homogenous stockpiles shall meet the requirements of Article 1004.07(c)(1). Homogeneous RAP stockpiles not meeting these requirements may be processed (crushing and screening) and retested.
  - (2) Conglomerate 5/8. Conglomerate 5/8 RAP stockpiles shall consist of RAP from Class I/ Superpave, or equivalent mixtures only. The coarse aggregate in this RAP shall be crushed aggregate only and may represent more than one aggregate type and/or quality but shall be at least C quality or better. This RAP may have an inconsistent gradation and/or asphalt cement content prior to processing. All conglomerate 5/8 RAP shall be processed prior to testing by crushing to where all RAP shall pass the 16 mm (5/8 in.) or smaller screen. Conglomerate 5/8 RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department. Conglomerate 5/8 RAP stockpiles shall meet the requirements of Article 1004.07(c)(1).
  - (3) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP containing coarse aggregate (crushed or round) that is at least D quality or better. This RAP may have an inconsistent gradation and/or asphalt content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department. Conglomerate DQ RAP shall meet the requirements of Article 1004.07(c)(1).

Reclaimed Superpave Low ESAL IL-9.5L surface mixtures shall only be placed in conglomerate DQ RAP stockpiles due to the potential for rounded aggregate.



- (4) Conglomerate 3/8. Conglomerate 3/8 RAP stockpiles shall consist of RAP from Class I/ Superpave, or equivalent mixtures only. The coarse aggregate in this RAP shall be crushed aggregate only and may represent more than one aggregate type and/or quality but shall be at least B quality or better. This RAP may have an inconsistent gradation and/or asphalt cement content prior to processing. All conglomerate 3/8 RAP shall be processed prior to testing by crushing to where all RAP shall pass the 9.5 mm (3/8 in.) or smaller screen. Conglomerate 3/8 RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department. Conglomerate 3/8 RAP stockpiles shall meet the requirements of Article 1004.07(c)(1).
- (5) Other. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Other". "Other" RAP stockpiles shall not be used in any of the Department's bituminous mixtures.
- (b) Contaminants. RAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.
- (c) RAP in Bituminous Concrete Mixtures. The allowable use of a RAP stockpile shall be set by the lowest quality of coarse aggregate in the RAP stockpile. Class I/Superpave surface mixtures are designated as containing Class B quality coarse aggregate only. Superpave Low ESAL IL-19.0L binder and IL-9.5L surface mixtures are designated as Class C quality coarse aggregate only. Class I/Superpave binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate only. Bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate only. Any mixture not listed above shall have the designated quality determined by the Department.

RAP containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in Class I/Superpave (including Low ESAL) surface mixtures only. RAP stockpiles for use in Class I/Superpave mixtures (including Low ESAL), base course, base course widening and Class B mixtures shall be either homogeneous, conglomerate 5/8, or conglomerate 3/8 RAP stockpiles. Conglomerate 5/8 RAP stockpiles shall not be used in Superpave surface mixture Ndesign 50 or greater. RAP for use in bituminous aggregate mixtures (BAM) shoulders and BAM stabilized subbase shall be from homogeneous, conglomerate 5/8, conglomerate 3/8 or conglomerate DQ stockpiles.

Additionally, RAP used in Class I/Superpave surface mixtures shall originate from milled or crushed mixtures only, in which the coarse aggregate is of Class B quality or better. RAP stockpiles for use in Class I/Superpave (including Low ESAL) binder mixes as well as base course, base course widening and Class B mixtures shall originate from milled or processed surface mixture, binder mixture, or a combination of both mixtures

uniformly blended to the satisfaction of the Engineer, in which the coarse aggregate is of Class C quality or better.

(1) Testing. All RAP shall be sampled and tested either during or after stockpiling.

## a. General Testing Requirements for all RAP

For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 450 metric tons (500 tons) for the first 1800 metric tons (2,000 tons) and one sample per 1800 metric tons (2,000 tons) thereafter. A minimum of five tests shall be required for stockpiles less than 3600 metric tons (4,000 tons).

For testing existing stockpiles, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to extract representative samples throughout the pile for testing.

Before extraction, each field sample shall be split to test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

#### b. Additional Testing Requirements for Conglomerate 3/8

The Contractor shall test Conglomerate 3/8 RAP for Maximum Theoretical Specific Gravity ( $G_{mm}$ ) at a frequency of one sample per 450 metric tons (500 tons) for the first 1800 metric tons (2,000 tons) and one sample per 1800 metric tons (2,000 tons) thereafter. A minimum of five tests shall be required for stockpiles less than 3600 metric tons (4,000 tons).

#### Evaluation of Test Results

All of the test results shall be compiled and averaged for asphalt content, gradation and, when applicable,  $G_{mm}$ . Individual test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	Homogeneous / Conglomerate	Conglomerate "D" Quality		
25 mm (1 in.)		± 5%		
12.5 mm (1/2 in.)	± 8%	± 15%		
4.75 mm (No. 4)	± 6%	± 13%		
2.36 mm (No. 8)	± 5%			
1.18 mm (No. 16)		± 15%		
600 μm (No. 30)	± 5%			
75 μm (No. 200)	± 2.0%	± 4.0%		
AC	± 0.4% <sup>1</sup>	± 0.5%		
G <sub>mm</sub>	$\pm 0.02^2$	N/A		

Note 1 – Tolerance for Conglomerate 3/8 is  $\pm 0.3\%$ 

Note 2 – Applies only to Conglomerate 3/8. If variation of the  $G_{mm}$  exceeds the  $\pm$  0.02 tolerance, a new stockpile of Conglomerate 3/8 shall be created which will also require an additional mix design.

If more than 20 percent of the individual sieves are out of the gradation tolerances, or if more than 20 percent of the asphalt content test results fall outside the appropriate tolerances, the RAP will not be allowed to be used in the Department's bituminous concrete mixtures unless the RAP representing the failing tests is removed from the stockpile to the satisfaction of the Engineer. All test data and acceptance ranges shall be sent to the District for evaluation.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)".

(2) Designs. At the Contractor's option, bituminous concrete mixtures may be constructed utilizing RAP material meeting the above detailed requirements. The amount of RAP included in the mixture shall not exceed the percentages specified in the plans.

RAP designs shall be submitted for volumetric verification. If additional RAP stockpiles are tested and found that no more than 20 percent of the results, as defined under "Testing" herein, are outside of the control tolerances set for the original RAP stockpile and design, and meets all of the requirements herein, the additional RAP stockpiles may be used in the original mix design at the percent previously verified.

(3) Production. The coarse aggregate in all RAP used shall be equal to or less than the nominal maximum size requirement for the bituminous mixture being produced.

To remove or reduce agglomerated material, a scalping screen, crushing unit or comparable sizing device approved by the Engineer shall be used in the RAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

If the RAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP and either switch to the virgin aggregate design or submit a new RAP design. When producing mixtures containing conglomerate 3/8 RAP, a positive dust control system shall be utilized.

- (4) Recording Proportions. HMA plants utilizing RAP shall be capable of automatically recording and printing the mixture proportions and asphalt cement content. The asphalt cement content as a percentage of the total mix shall be printed as well as the individual percentages of virgin asphalt cement and residual asphalt cement from the RAP.
- (d) RAP in Aggregate Surface Course and Aggregate Shoulders. The use of RAP in Aggregate Surface Course and Aggregate Shoulders shall be as follows.
  - (1) Stockpiles. RAP stockpiles may be any of those listed in Article 1004.07(a), except "Other".
  - (2) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted.
- (e) RAP in Porous Granular Embankment (PGE). The use of RAP in PGE shall be as follows.
  - (1) Percent of RAP. The amount of RAP used in PGE shall be limited to a maximum of 40 percent blended with 60 percent gravel, crushed gravel, crushed stone, crushed concrete, crushed slag, chats, crushed sandstone, or wet-bottom boiler slag. Crushed steel slag or other expansive materials shall be limited to a maximum of 10 percent. Prior to blending, the RAP shall be tested by the Department to determine the percent of steel slag in the RAP. Any blending shall be by interlocked mechanical feeders as approved by the Engineer prior to beginning production. RAP for use in Porous Granular Embankment
  - (2) Stockpiles. RAP stockpiles may be any of those listed in Article 1004.07(a).
  - (3) Gradation. The gradation of the RAP material shall be determined by the Engineer. If a gradation is specified, the gradation shall be tested according to the AGCS, Category 3, using Illinois Modified AASHTO T 27, with the following exceptions.
    - a. The sample shall be air dried to prevent the material from clumping.
    - b. No washed minus #200 will be calculated.

97A. Revised 10-24-06