

99-305.13

PROPOSAL
FOR
HIGHWAY IMPROVEMENT

in the County of Cook, Illinois

WALLY S. KOS, P.E.
SUPERINTENDENT OF HIGHWAYS



Section 04-B8431-08-PV on Route No. B84

Known as 171st Street Reconstruction

Wood Street to Ashland Avenue

COUNTY OF COOK

CHICAGO, ILLINOIS

NOTICE

TO CONTRACTORS FOR A COUNTY HIGHWAY IMPROVEMENT

Notice is hereby given that sealed proposals for a County Highway Improvement in the County of Cook, Illinois, as described below, will be received at Room 569, County Building, Chicago, Illinois

until _____ and then publicly
opened and read aloud

Improvement 171st Street Reconstruction Township Thornton

From Wood Street To Ashland Avenue

Route B84 Section 04-B8431-08-PV

LOCATION OF IMPROVEMENT

The proposed improvement is part of the public highway system in the County of Cook, State of Illinois, located by section and route before mentioned, and is indicated on the map showing the County Highway System on file in the office of the County Clerk and also in the office of the Illinois Department of Transportation, Division of Highways, Springfield, Illinois.

This project begins at a point on the centerline of 171st Street approximately 48.44 feet east of the centerline of Wood Street at Station 48+00 in the Villages of East Hazel Crest and Hazel Crest, Cook County, and extends in an easterly direction to a point about 32.10 feet west of Ashland Avenue in the Villages of East Hazel Crest and Harvey, Cook County, at Station 66+80 for a total distance of 1880 feet (0.356 miles). This project also includes a portion of Park Avenue starting at Station 20+00 extending northeast along the centerline of Park Avenue in the Village of Hazel Crest, Cook County, for a total distance of 300 feet (0.057 miles). The total net length of this project is 2180 ft (0.413 miles).

DESCRIPTION OF IMPROVEMENT

This project includes roadway reconstruction for 171st Street from Station 48+00 to Station 66+00, and Park Avenue from Station 20+00 to Station 23+00. The work to be performed under this contract includes earth excavation; construction of storm sewer and drainage structures; construction of a detention facility and associated pumping station with force main; roadway construction with aggregate base course, jointed P.C.C. pavement; commuter parking lot construction with aggregate base course, bituminous concrete binder and surface courses; installation of combination concrete curb and gutters; cast-in-place retaining walls; landscaping; pavement markings; traffic signals; lighting; a new lift station with associated force main; and all incidental and collateral work necessary to complete the project as shown on the plans and as described herein.

COUNTY OF COOK CHICAGO, ILLINOIS

PROPOSAL

For a County Highway Improvement in the County of Cook, State of Illinois,

known as 171ST Street Reconstruction

Route B84 Section 04-B8431-08-PV

From Wood Street To Ashland Avenue

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COOK COUNTY HIGHWAY DEPARTMENT
SPECIAL PROVISION CHECK LIST

EFFECTIVE DEC. 1, 2003

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ORIGIN AND DATE INITIATED/LAST REVISED</u>
X 1.	Bidding Requirements and Conditions For Contract Proposals	(IL-CC) Jan. 1, 2002
X 2.	Bidding Requirements	(CC) July. 1, 2002
X 3.	Wages of Employees on Public Works	(IL-CC) Jul. 1, 2002
X 4.	Alternate Proposal	(CC) March 18, 1980
X 5.	Pre-Construction Conference	(CC) March 18, 1980
X 6.	Ordinance	(CC) March 10, 2000
X 7.	Required Disadvantaged Business Participation	(IL-CC) October 1, 2003
8.	Specific Equal Employment Opportunity Responsibilities - Non-Federal Aid Contracts	(IL) June 1, 1994
X 9.	Legal Regulations and Responsibility to Public	(CC) June 1, 1994
X 10.	Insurance Requirements	(CC) Jan. 1, 1997
11.	Railroad Protective Liability Insurance	(CC) May 1, 2003
X 12.	Joint Venture Forms	(CC) June 20, 1997
X 13.	Addendum Receipt	(CC) May 1, 2003
X 14.	Contract Assurance	(CC) Dec. 24, 2002
15.	Indemnification	(CC) Sept. 18, 2002
16.	Combination Bidding Process	(IL-CC) Dec. 1, 2003
X 17.	Prompt Pay Mechanisms	(CC) Dec. 24, 2002
X 18.	Contract Claims	(IL-CC) May 1, 2002
19-25	Not Used	
26.	Contract Extra Work Items	(CC) Oct. 24, 1996
27.	Liquidated Damages	(IL) Jan. 1, 1999
X 28.	Processing of Extra Work Payment Requests	(CC) May 1, 1997
X 29.	Construction Layout Stakes and Survey Control Points	(CC) April 1, 2003
30.	Municipal Coordination/Transfer of Jurisdiction and/or Maintenance	(CC) July 1, 2000

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ORIGIN AND DATE INITIATED/LAST REVISED</u>
X 31.	Engineers Field Office	(CC) Feb. 1, 2001
X 32.	Construction Debris	(CC) July 1, 2000
X 33.	Portland Cement Concrete Pavement	(CC) July 1, 1994
34. - 41.	Not Used	
42.	Survey Monuments	(CC) July 1, 2000
X 43.	Soils Information	(CC) July 1, 1994
44.	Embankment	(CC) March 6, 2003
45.	Borrow Excavation	(CC) July 1, 2000
46.	Cutting Bituminous Surface and Bituminous Surface Removal	(CC) May 1, 2003
47.	Bituminous Driveway Surface Removal	(CC) May 1, 2003
48.	Temporary Butt Joints	(CC) May 1, 2003
X 49.	Crushed Stone (Temporary Use)	(CC) May 1, 2003
50.	Temporary By-Pass Pavement	(CC) May 1, 2003
51.	Strip Reflective Crack Control Treatment, Special	(CC) May 1, 2003
52.	Traffic Barrier Terminal, Type 1, Special	(IL-CC) May 1, 2003
X 53.	Aggregate Subgrade, 300mm	(IL) July 1, 2000
X 54.	Porous Granular Embankment, Special	(CC) July 1, 2000
55.	Treatment of Cracks	(CC) Jan. 1, 1997
56.	Bituminous Base Course	(CC) July 1, 1994
57.	Cold Recycled in Place Bituminous Base Course (Existing Pozzolanic or Bituminous Base Course)	(CC) May 1, 2003
58.	Scheduling	(CC) May 1, 2003
X 59.	Quality Control/Quality Assurance of Bituminous Concrete Mixtures	(IL) Jan. 1, 2004
X 60.	Quality Control/Quality Assurance of Concrete Mixtures	(IL) Jan. 1, 2004
61.	Not Used	

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ORIGIN AND DATE INITIATED/LAST REVISED</u>
X 62.	RAP For Use in Bituminous Concrete Mixture	(IL) April 1, 2002
X 63.	Segregation Control of Bituminous Concrete	(IL) July 15, 1997
X 64.	Superpave Bituminous Concrete Mixtures	(IL) Jan. 1, 2004
65.	Not Used	
66.	Diamond Grinding Concrete Pavement	(CC) May 1, 2003
67.	Elastomeric Contraction Joints	(IL) May 1, 2003
68.	Not Used	
69.	Class B Patches Special 2	(IL) May 1, 2003
70.	Class C Patches, 9 Inch (High Early Strength Concrete)	(CC) May 1, 2003
71.	Pavement Removal and Replacement, 10.5 Inch (High Early Strength)	(CC) May 1, 2003
72.	Structural Fiber Reinforced P.C. Concrete Bus Pad (4 Inch)	(CC) May 1, 2003
73.	P.C. Concrete Pavement Special 1 (10 Inch)	(CC) May 1, 2003
74.	Expanded Polystyrene Fill	(CC) May 1, 2003
75.	Non - Special Waste Working Conditions	(CC) May 1, 2003
76.	Landscaping	(CC) May 1, 2003
77.	GEO - GRID Subgrade Reinforcing Mat	(CC) May 1, 2003
78.	Earth Excavation (Special)	(CC) May 1, 2003
79 - 80.	Not Used	
81.	Calcium Nitrite Corrosion Inhibitor	(IL) July 1, 1999
82.	Interlocking Block Retaining Wall	(CC) July 1, 1994
83.	Temporary Soil Retention System	(IL) Dec. 30, 2002
84.	Steel Structures	(CC) July 1, 1994
85.	Cleaning and Painting New Metal Structures	(IL) Apr. 2, 2003
86.	Cleaning and Painting Existing Steel Structures	(IL) Apr. 7, 2003

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ORIGIN AND DATE INITIATED/LAST REVISED</u>
87.	Containment and Disposal of Lead Paint Cleaning Residues	(IL) Apr. 7, 2003
88.	Fine or Coarse Aggregate Embankment	(CC) Jan. 1, 2003
89.	Deck Drains	(CC) Feb. 14, 1997
90.	Drainage System	(IL) Jan. 1, 2002
91.	Preformed Joint Seal	(CC) Feb. 14, 1997
92.	Silicone Bridge Joint Sealer	(IL) Dec. 16, 2002
93.	Strip Seal Joint Assembly with Elastomeric Concrete Headers	(CC) May 1, 2003
94.	Deck Slab Repair	(IL) Mar. 12, 2003
95.	Bridge Deck Latex Concrete Overlay	(IL) Jun. 23, 2003
96.	Surface Finish	(IL-CC) July 1, 1994
97.	Repair Concrete Structures	(IL-CC) Feb. 14, 1997
98.	Formed Concrete Repair	(IL) Aug. 21, 2002
99.	Welded Wire Fabric, Epoxy Coated	(IL) Feb. 14, 1997
100.	Permanent Steel Sheet Piling	(IL) Oct. 1, 2002
101.	Temporary Sheet Piling	(IL) Dec. 13, 2002
102.	Protective Shield System	(IL) Jan. 1, 2003
103.	Jack and Remove Existing Bearings	(IL) Jun. 24, 2003
104.	Jacking Existing Superstructure	(IL) Jan. 3, 2003
105.	111. Not Used	
112.	Boring and Jacking Storm Sewers, Sanitary Sewers or Water Mains	(CC) July 1, 1994
113.	Storm Sewer Drilled and Pushed (36 In. Dia. Max.)	(CC) July 1, 1994
X 114.	Flared End Sections to be Removed, Flared End Sections to be Relocated	(CC) July 1, 1994
115.	Storm Sewers Jacked in Place (Over 36 In. Dia.)	(CC) Oct. 21, 2002
116.	Water Valve Boxes to be Adjusted and Domestic Meter Vaults to be Adjusted	(CC) Jan. 1, 1997
X 117.	Cooperation With Utilities	(CC) Aug. 1, 2002

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ORIGIN AND DATE INITIATED/LAST REVISED</u>
118.	Frames and Lids to be Adjusted, Special	(CC) July 1, 1994
X119.	Connecting Existing Field Drain Tile	(CC) July 1, 1994
120.	Plugging Existing Drains and Sewers	(CC) July 1, 1994
121.	Blocking Existing Drains and Sewers	(CC) Oct. 21, 2002
122.	Filling Existing Valve Vaults	(CC) July 1, 1994
123.	Domestic Water Service Boxes to be Adjusted	(CC) July 1, 1994
124.	Water Main Installation	(CC) March 6, 2003
X125.	Bracing and Sheeting	(CC) July 1, 1994
126.	Fire Hydrants Vertical Adjustment	(CC) March 6, 2003
127.	Headwall Inlet and Grate	(CC) July 1, 1994
128.	Cleaning Existing Manholes, Catch Basins or Inlets and Cleaning Existing Storm Sewer and Pipe Culverts	(CC) July 1, 1994
X129.	Exploration Trench (52 In. Depth)	(CC) March 25, 2003
130.	Manholes to be Reconstructed, Special Catch Basins to be Reconstructed, Special Valve Vaults to be Reconstructed, Special	(CC) Oct. 21, 2002
131.	Lids and Frames and Lids	(CC) Oct. 21, 2002
132.	Storm Sewer (Ductile Iron Pipe and and Vitrified Clay Pipe) Installation	(CC) Oct. 21, 2002
133.	Sanitary Sewer Installation	(CC) Oct. 21, 2002
134.	Storm Sewer Installation in the City of Chicago	(CC) Oct. 21, 2002
135.	Not Used	
136.	Filling Existing Manholes (Special) Filling Existing Catch Basins (Special)	(CC) July 1, 1994
137.	Filling Existing Inlets (Special)	(CC) July 1, 1994
138.	Waterproofing of Sanitary Manholes	(CC) Mar 6, 2003
X139.	National Pollutant Discharge Elimination System	(CC) Sept. 30, 2003
X140.	Erosion and Sediment Control Deficiency Deduction	(IL) Nov. 1, 2001
141-155	Not Used	
156.	Seeding	(CC) Sept. 1, 2002

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ORIGIN AND DATE INITIATED/LAST REVISED</u>
X 157.	Sodding	(CC) Sept. 1, 2002
158.	Topsoil and Compost	(CC) Sept. 1, 2002
159.	Salvaging and Transplanting Trees Salvaging and Transplanting Shrubs	(CC) Sept. 1, 2002
X 160.	Planting Woody Plants	(CC) Jan. 1, 1997
161.	Seeding, Fine Fescue Blend	(CC) Oct. 21, 2002
162.	Seeding, Class 4B Modified	(CC) Oct. 21, 2002
X 163.	Protection of Existing Trees and Plant Material	(CC) May 1, 2003
164 - 175	Not Used	
X 176.	Remove Sign Panel Assembly Type A, Type B or Type 3	(CC) March 6, 2003
X 177.	Work Zone Traffic Control	(CC) March 1, 1997
X 178.	Traffic Control Devices - Detour Routing	(CC) March 6, 2003
179.	Sign Panel - Type AZ Reflectorized Sheeting	(CC) July 1, 2002
X 180.	Traffic Control Deficiency Deduction	(IL) Jan. 1, 2003
X 181.	Traffic Protection	(CC) March 6, 2003
182.	Portable Changeable Message Signs	(CC) Feb. 1, 1996
183 - 200	Not Used	
X 201.	Traffic Signal Work General	(CC) Dec. 1, 2003
202.	Construction at Railroad Crossing	(CC) Dec. 1, 2003
203.	Signal Head, Optically Programmed Head and Pedestrian Head	(CC) Dec. 1, 2003
X 204.	Signal Head, Light Emitting Diode	(CC) Dec. 1, 2003
205.	Traffic Signal Backplate	(CC) Dec. 1, 2003
206.	Illuminated Sign, Light Emitting Diode	(CC) Dec. 1, 2003
207.	Traffic Signal Post, Pedestrian Pushbutton Post	(CC) Dec. 1, 2003
208.	Steel Mast Arm Assembly and Pole, Steel Combination Pole	(CC) Dec. 1, 2003
209.	Traffic Actuated Controller, Traffic Actuated Controller with Cabinet, Inductive Loop Detector	(CC) Dec. 1, 2003

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ORIGIN AND DATE INITIATED/LAST REVISED</u>
210.	Master Controller	(CC) Dec. 1, 2003
211.	Detector Loop	(CC) Dec. 1, 2003
212.	Video Detection System For Temporary Traffic Signal Installation	(CC) Dec. 1, 2003
213.	Pedestrian Pushbutton	(CC) Dec. 1, 2003
214.	Conduit	(CC) Dec. 1, 2003
215.	Unit Duct, Without Cable, In Trench	(CC) Dec. 1, 2003
216.	Trench and Backfill For Electrical Work	(CC) Dec. 1, 2003
217.	Electric Cable	(CC) Dec. 1, 2003
218.	Railroad Interconnect Cable	(CC) Dec. 1, 2003
219.	Fiber Optic Cable	(CC) Dec. 1, 2003
220.	System Ground and Grounding Cable	(CC) Dec. 1, 2003
221.	Grounding Existing Handhole Frame and Cover	(CC) Dec. 1, 2003
222.	Service Installation, Pole Mount	(CC) Dec. 1, 2003
223.	Service Installation, Ground Mount	(CC) Dec. 1, 2003
224.	Electric Service	(CC) Dec. 1, 2003
225.	Handhole	(CC) Dec. 1, 2003
226.	Rebuild Existing Handhole, Heavy Duty Handhole, Double Handhole	(CC) Dec. 1, 2003
227.	Concrete Foundation	(CC) Dec. 1, 2003
228.	Modify Existing Type "D" Foundation	(CC) Dec. 1, 2003
229.	Remove Existing Traffic Signal Equipment	(CC) Dec. 1, 2003
230.	Temporary Traffic Signal Installation	(CC) Dec. 1, 2003
X 231.	Maintenance of Existing Traffic Signal Installation	(CC) Dec. 1, 2003
232.	Emergency Vehicle Priority System	(CC) Dec. 1, 2003
233.	Relocate Existing Light Detector	(CC) Dec. 1, 2003
234.	Relocate Existing Light Detector Amplifier	(CC) Dec. 1, 2003
235.	Confirmation Beacon System	(CC) Dec. 1, 2003
236.	Re-Optimize Traffic Signal System	(CC) Dec. 1, 2003

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ORIGIN AND DATE INITIATED/LAST REVISED</u>
237.	Optimize Traffic Signal System	(CC) Dec. 1, 2003
238.	Median Removal and Replacement	(CC) Dec. 1, 2003
239.	Sidewalk Removal and Replacement	(CC) Dec. 1, 2003
240.	Relocate Existing Light Standard and Luminaire Complete in Place	(CC) Dec. 1, 2003
241. 260.	Not Used	
	Cover Sheet	(CC) May 1, 2003
	Notice Sheet	(CC) May 1, 2003
	Proposal Sheet	(CC) May 1, 2003
	Schedule of Prices Sheets	(CC) May 1, 2003

ADDITIONAL INSERTED SPECIAL PROVISIONS

ORIGIN OF SPECIAL PROVISIONS

(CC) Initiated by Cook County Highway Department
(IL) Initiated by the Illinois Department of Transportation
(IL-CC) Initiated by the Illinois Department of Transportation and amended by Cook County Highway Department

INITIATING BUREAU/DIVISION

COOK COUNTY HIGHWAY DEPARTMENT
SPECIAL PROVISION CATALOG NUMBER

Contract Documents Office	1-25
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Pavement Geometrics Division	41-80
Structural Division	81-110
Drainage Division	111-155
Landscaping Division	156-175
Transportation and Planning Bureau	176-200
Electrical Division	201-260

CHECK SHEET
FOR
RECURRING SPECIAL PROVISIONS

Adopted January 1, 2004

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

<u>CHECK SHEET #</u>	<u>RECURRING SPECIAL PROVISIONS</u>	<u>PAGE NO.</u>
1	<input checked="" type="checkbox"/> State Required Contract Provision All Federal-aid Construction Contracts (Eff. 2-1-69) (Rev. 10-1-83)	49
2	<input checked="" type="checkbox"/> Subletting of Contracts (Federal Aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93).....	51
3	<input type="checkbox"/> EEO (Eff. 7-21-78) (Rev. 11-18-80).....	52
4	<input type="checkbox"/> Specific Equal Employment Opportunity Responsibilities Non Federal-aid Contracts (Eff. 3-20-69) (Rev. 1-1-94).....	63
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8	<input type="checkbox"/> National Pollutant Discharge Elimination System Permit (Eff 7-1-94) (Rev. 1-1-03).....	76
9	<input type="checkbox"/> Haul Road Stream Crossings, Other Temporary Stream Crossings, and In-Stream Work Pads (Eff. 1-2-92) (Rev. 1-1-98)	77
10	<input type="checkbox"/> Construction Layout Stakes Except for Structure" (Eff. 1-1-99) (Rev. 1-1-02)	78
11	<input type="checkbox"/> Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-02)	81
12	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-97)	84
13	<input type="checkbox"/> Asphaltic Emulsion Slurry Seal and Fibrated Asphaltic Emulsion Slurry Seal (Eff. 8-1-89) (Rev. 2-1-97)	86
14	<input type="checkbox"/> Bituminous Surface Treatment Half-Smart (Eff. 7-1-93) (Rev. 1-1-97)	92
15	<input type="checkbox"/> Quality Control/Quality Assurance of Bituminous Concrete Mixtures (Eff. 1-1-00) (Rev. 1-1-04)	98
16	<input type="checkbox"/> Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 2-1-95).....	117
17	<input type="checkbox"/> Bituminous Surface Removal (Cold Milling) (Eff. 11-1-87) (Rev. 10-15-97).....	121
18	<input type="checkbox"/> Resurfacing of Milled Surfaces (Eff. 10-1-95).....	123
19	<input type="checkbox"/> PCC Partial Depth Bituminous Patching (Eff. 1-1-98)	124
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21	Reserved	128
22	<input type="checkbox"/> Protective Shield System (Eff. 4-1-95) (Rev. 1-1-03)	129
23	<input type="checkbox"/> Polymer Concrete (Eff. 8-1-95) (Rev. 1-1-04)	131
24	<input checked="" type="checkbox"/> Controlled Low Strength Material (CLSM) (Eff. 1-1-90) (Rev. 1-1-00)	133
25	<input type="checkbox"/> Pipe Underdrains (Eff. 9-9-87) (Rev. 1-1-98)	138
26	<input type="checkbox"/> Guardrail and Barrier Wall Delineation (Eff. 12-15-93) (Rev. 1-1-97).....	139
27	<input type="checkbox"/> Bicycle Racks (Eff. 4-1-94) (Rev. 1-1-97).....	144
28	<input type="checkbox"/> Give em a Brake Sign (Eff. 8-1-89) (Rev. 8-1-91)	146
29	<input type="checkbox"/> Portable Changeable Message Signs (Eff. 11-1-93) (Rev. 2-1-96).....	147
30	Reserved	148
31	<input type="checkbox"/> Night Time Inspection of Roadway Lighting (Eff. 5-1-96)	149
32	Reserved	150
33	<input type="checkbox"/> English Substitution of Metric Bolts (Eff. 7-1-96).....	151
34	<input type="checkbox"/> English Substitution of Metric Reinforcement Bars (Eff. 4-1-96) (Rev. 1-1-03)	152
35	<input type="checkbox"/> Polymer Modified Emulsified Asphalt (Eff. 5-15-89) (Rev. 1-1-04).....	154
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CHECK SHEET
FOR
RECURRING LOCAL ROADS AND STREETS SPECIAL PROVISIONS

Adopted January 1, 2004

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

RECURRING LOCAL ROADS AND STREETS SPECIAL PROVISIONS

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LRS 10 <input type="checkbox"/> Reflective Sheeting Type C (Eff. 1-1-99) (Rev. 1-1-02).....	212
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PRECAST CONCRETE PRODUCTS (BDE)

Effective: July 1, 1999

Revised: November 1, 2004

Product Approval. Precast concrete products shall be produced according to the Department's current Policy Memorandum, "Quality Control/Quality Assurance Program for Precast Concrete Products". The Policy Memorandum applies to precast concrete products listed under the Products Key of the "Approved List of Certified Precast Concrete Producers".

Precast Concrete Box Culverts. Add the following sentence to the end of the fourth paragraph of Article 540.06:

"After installation, the interior and exterior joint gap between precast concrete box culvert sections shall not exceed 38 mm (1 1/2 in.)."

Portland Cement Replacement. For precast concrete products using Class PC concrete or other mixtures, portland cement replacement with fly ash or ground granulated blast-furnace (GGBF) slag shall be governed by the AASHTO or ASTM standard specification referenced in the Standard Specifications.

For all other precast concrete products using Class PC concrete or other mixtures, portland cement replacement with fly ash or GGBF slag shall be approved by the Engineer. Class F fly ash shall not exceed 15 percent by mass (weight) of the total portland cement and Class F fly ash. Class C fly ash shall not exceed 20 percent by mass (weight) of the total portland cement and Class C fly ash. GGBF slag shall not exceed 25 percent by mass (weight) of the total portland cement and GGBF slag.

Concrete mix designs, for precast concrete products, shall not consist of portland cement, fly ash and GGBF slag.

Ready-Mixed Concrete. Delete the last paragraph of Article 1020.11(a) of the Standard Specifications.

Shipping. When a precast concrete product has attained the specified strength, the earliest the product may be loaded, shipped, and used is on the fifth calendar day. The first calendar day shall be the date casting was completed.

Acceptance. Products which have been lot or piece inspected and approved by the Department prior to July 1, 1999, will be accepted for use on this contract.

HAND VIBRATOR (BDE)

Effective: November 1, 2003

Add the following paragraph to Article 1103.17(a) of the Standard Specifications:

"The vibrator shall have a non-metallic head for areas containing epoxy coated reinforcement. The head shall be coated by the manufacturer. The hardness of the non-metallic head shall be less than the epoxy coated reinforcement, resulting in no damage to the epoxy coating. Slip-on covers will not be allowed."

80054

STABILIZED SUBBASE AND BITUMINOUS SHOULDERS SUPERPAVE (BDE)

Effective: April 1, 2002

Revised: July 1, 2004

Description. This work shall consist of constructing stabilized subbase and bituminous shoulders Superpave according to Sections 312 and 482 respectively, of the Standard Specifications and the special provision, "Quality Control/Quality Assurance of Bituminous Concrete Mixtures" except as modified herein.

Revise Article 312.03(b) of the Standard Specifications to read:

"(b) RAP Material (Note 3)"

Revise Note 2 of Article 312.03 of the Standard Specifications to read:

"Note 2. Gradation CA 6, CA 10, or CA 12 shall be used."

Revise Note 3 of Article 312.03 of the Standard Specifications to read:

"Note 3. RAP shall meet the requirements of the special provision "RAP for Use in Bituminous Concrete Mixtures". RAP containing steel slag shall be permitted for use in top-lift surface mixtures only."

Revise Note 4 of Article 312.03 of the Standard Specifications to read:

"Note 4. Unless otherwise specified on the plans, the bituminous material shall be performance graded asphalt cement, PG58-22. When more than 15 percent RAP is used, a softer PG binder may be required as determined by the Engineer."

Revise Article 312.06 of the Standard Specifications to read:

"312.06 Mixture Design. The Contractor shall submit mix designs for approval, for each required mixture. Mix designs shall be developed by Level III personnel who have completed the course, "Superpave Mix Design Upgrade". The mixtures shall be designed according to the respective Illinois Modified AASHTO references listed below:

- AASHTO MP 2 Standard Specification for Superpave Volumetric Mix Design
- AASHTO R 30 Standard Practice for Mixture Conditioning of Hot-Mix Asphalt (HMA)
- AASHTO PP 28 Standard Practice for Designing Superpave HMA
- AASHTO T 209 Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures

AASHTO T 312 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyrotory Compactor

AASHTO T 308 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method

(a) Job Mix Formula (JMF). The JMF shall be according to the following limits:

<u>Ingredient</u>	<u>Percent by Dry Weight</u>
Aggregate	94.0 to 96.0
Asphalt Cement.....	4.0 to 6.0*
Dust/AC Ratio.....	1.4

*Upper limit may be raised for the lower or top lifts if the Contractor elects to use a highly absorptive coarse and/or fine aggregate requiring more than six percent asphalt. The additional asphalt shall be furnished at no cost to the Department.

When RAP material is being used, the JMF shall be according to the following limits:

<u>Ingredient</u>	<u>Percent by Dry Weight</u>
Virgin Aggregate(s)	46.0 to 96.0
RAP Material(s) (Note 1)	0 to 50
Mineral Filler (if required).....	0 to 5.0
Asphalt Cement.....	4.0 to 7.0
Dust/AC Ratio.....	1.4

Note 1. If specified on the plans, the maximum percentage of RAP shall be as specified therein.

It is recommended that the selected combined aggregate gradation not pass through the restricted zones specified in Illinois Modified AASHTO MP 2.

(b) Volumetric Requirements.

Design Compactive Effort	Design Air Voids Target (%)
$N_{DES} = 30$	2.0

(c) Determination of Need for Anti-Stripping Additive. The mixture designer shall determine if an additive is needed in the mix to prevent stripping. The determination will be made on the basis of tests performed according to Illinois Modified AASHTO T 283 using 4 in. Marshall bricks. To be considered acceptable by the Engineer as a mixture not susceptible to stripping, the ratio of conditioned to unconditioned split tensile strengths (TSR) shall be equal to or greater than 0.75. Mixtures, either with or without an additive, with TSR values less than 0.75 will be considered unacceptable.

If it is determined that an additive is required, the additive may be hydrated lime, slaked quicklime, or a liquid additive, at the Contractor's option. The liquid additive shall be selected from the Department's list of approved additives and may be limited to those which have exhibited satisfactory performance in similar mixes.

Dry hydrated lime shall be added at a rate of 1.0 to 1.5 percent by weight of total dry aggregate. Slurry shall be added in such quantity as to provide the required amount of hydrated lime solids by weight of total dry aggregate. The exact rate of application for all anti-stripping additives will be determined by the Engineer. The method of application shall be according to Article 406.12 of the Standard Specifications."

Revise Article 312.08 of the Standard Specifications to read:

"312.08 Mixture Production. When a hot-mix plant conforming to Article 1102.01 is used, the aggregate shall be dried and heated in the revolving dryer to a temperature of 120 °C (250 °F) to 175 °C (350 °F).

The aggregate and bituminous material used in the bituminous aggregate mixture shall be measured separately and accurately by weight or by volume. When the aggregate is in the mixer, the bituminous material shall be added and mixing continued for a minimum of 35 seconds and until a homogeneous mixture is produced in which all particles of the aggregate are coated. The mixing period, size of the batch and the production rate shall be approved by the Engineer.

The ingredients shall be heated and combined in such a manner as to produce a mixture which, when discharged from the mixer, shall be workable and vary not more 10 °C (20 °F) from the temperature set by the Engineer.

When RAP material(s) is used in the bituminous aggregate mixture, the virgin aggregate(s) shall be dried and heated in the dryer to a temperature that will produce the specified resultant mix temperature when combined with the RAP material.

The heated virgin aggregates and mineral filler shall be combined with RAP material in such a manner as to produce a bituminous mixture which when discharged from the mixer shall not vary more than 15 °C (30 °F) from the temperature set by the Engineer. The combined ingredients shall be mixed for a minimum of 35 seconds and until a homogeneous mixture as to composition and temperature is obtained. The total mixing time shall be a minimum of 45 seconds consisting of dry and wet mixing. Variation in wet and dry mixing times may be permitted, depending on the moisture content and amount of salvaged material used. The mix temperature shall not exceed 175 °C (350 °F). Wide variations in the mixture temperature will be cause for rejection of the mix.

- (a) Personnel. The QC Manager and Level I Technician shall have successfully completed the Department's "Superpave Field Control Course".

- (b) Required Tests. Testing for stabilized subbase and bituminous shoulders shall be conducted to control the production of the bituminous mixture using the test methods identified and performed at a frequency not less than indicated in the following table.

Parameter	Frequency of Tests Non-Class I Mixtures	Test Method
Aggregate Gradation Hot bins for batch and continuous plants. Individual cold-feeds or combined belt-feed for drier-drum plants. (% passing sieves: 12.5 mm (1/2 In.), 4.75 mm (No. 4), 75 µm (No. 200))	1 gradation per day of production. The first day of production shall be washed ignition oven test on the mix. Thereafter, the testing shall alternate between dry gradation and washed ignition oven test on the mix. The dry gradation and the washed ignition oven test results shall be plotted on the same control chart.	Illinois Procedure (See Manual of Test Procedures for Materials).
Asphalt Content by ignition oven (Note 1.)	1 per day	Illinois-Modified AASHTO T 308
Air Voids		
Bulk Specific Gravity of Gyratory Sample	1 per day	Illinois-Modified AASHTO T 312
Maximum Specific Gravity of Mixture	1 per day	Illinois-Modified AASHTO T 209

Note 1. The Engineer may waive the ignition oven requirement for AC content if the aggregates to be used are known to have ignition AC content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the AC content.

During production, the ratio of minus 75 µm (#200) sieve material to total asphalt cement shall be not less than 0.6 nor more than 1.6, and the moisture content of the mixture at discharge from the mixer shall not exceed 0.5 percent. If at any time the ratio of minus 75 µm (#200) material to asphalt or moisture content of the mixture falls outside the stated limits, production of the mix shall cease. The cause shall be determined and corrective action satisfactory to the Engineer shall be initiated prior to resumption of production.

During production, mixture containing an anti-stripping additive will be tested by the Engineer for stripping according to Illinois Modified AASHTO T 283. If the mixture fails to meet the TSR criteria for acceptance, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria.

(c) Control Charts/Limits. Control charts/limits shall be according to QC/QA requirements for Non-Class I Mixtures except air voids shall be plotted on the control charts within the following control limits:

Air Void Control Limits	
Mixture	Individual Test
Shoulders	± 1.2 %
Others	± 1.2 %"

Replace the first paragraph of Article 312.10 of the Standard Specifications with the following:

312.10 Placing and Compacting. After the subgrade has been compacted and is acceptable to the Engineer, the bituminous aggregate mixture shall be spread upon it with a mechanical spreader. The maximum compacted thickness of each lift shall be 150 mm (6 in.) provided the required density is obtained. The minimum compacted thickness of each lift shall be according to the following table:

Nominal Maximum Aggregate Size of Mixture	Minimum Compacted Lift Thickness
CA 12 – 12.5 mm (1/2 in.)	38 mm (1 1/2 in.)
CA 10 - 19 mm (3/4 in.)	57 mm (2 1/4 in.)
CA 6 – 25 mm (1 in.)	76 mm (3 in.)

The surface of each lift shall be clean and dry before succeeding lifts are placed."

Revise Article 482.02 of the Standard Specifications to read:

482.02 Materials. Materials shall meet the requirements of Article 312.03. For the top lift, the aggregate used shall meet the gradation requirements for a CA 10 or CA 12. Blending of aggregates to meet these gradation requirements will be permitted."

Revise the first paragraph of Article 482.04 of the Standard Specifications to read:

482.04 General. For pavement and shoulder resurfacing projects, Superpave binder and surface course mixtures may be used in lieu of bituminous aggregate mixture for the resurfacing of shoulders, at the option of the Contractor, or shall be used when specified on the plans."

Revise Article 482.04(c) of the Standard Specifications to read:

"(c) Mixture Production.....312.08"

Revise Article 482.05 of the Standard Specifications to read:

482.05 Composition of Bituminous Aggregate Mixture. The composition of the mixture shall be according to Article 312.06, except that the amount of asphalt cement used in the top

lift shall be increased up to 0.5 percent more than that required in the lower lifts. For resurfacing projects when the Superpave binder and surface course mixtures option is used, the asphalt cement used in the top lift shall not be increased. Superpave mixtures used on the top lift of such shoulders shall meet the gradation requirements of the special provision "Superpave Bituminous Concrete Mixtures".

For shoulder and strip construction, the composition of the Superpave binder and surface course shall be the same as that specified for the mainline pavement."

In the following locations of Section 482 of the Standard Specifications, change "Class I" to "Superpave":

- the second paragraph of Article 482.04
- the first sentence of the second paragraph of Article 482.06
- the first sentence of the fourth paragraph of Article 482.06
- the second sentence of the fourth paragraph of Article 482.06
- the first sentence of the third paragraph of Article 482.08(b)

Revise the first paragraph of Article 482.06 of the Standard Specifications to read:

"482.06 Placing and Compacting. This work shall be according to Article 312.10. The mechanical spreader for the top lift of shoulders shall meet the requirements of Article 1102.03 when the shoulder width is 3 m (10 ft) or greater."

Revise Article 482.09 of the Standard Specifications to read:

"482.09 Basis of Payment. When bituminous shoulders are constructed along the edges of the completed pavement structure, this work will be paid for at the contract unit price per square meter (square yard) for BITUMINOUS SHOULDERS SUPERPAVE of the thickness specified. The specified thickness shall be the thickness shown on the plans at the edge of the pavement.

On pavement and shoulder resurfacing projects, the shoulder resurfacing will be paid for at the contract unit price per metric ton (ton) for BITUMINOUS SHOULDERS SUPERPAVE.

The construction of shoulder strips for resurfacing pavements will be paid according to the special provision, "Superpave Bituminous Concrete Mixtures".

WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the work within 242 working days.

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