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Letting April 27, 2018

Notice to Bidders, Specifications and Proposal



Springfield, Illinois 62764

Contract No. 61E55 DUPAGE County Section 16-00096-00-PK (Bensenville) Route RAILROAD AVENUE Project WPE6-555 () District 1 Construction Funds

Prepared by

Checked by

(Printed by authority of the State of Illinois)



NOTICE TO BIDDERS

- 1. TIME AND PLACE OF OPENING BIDS. Electronic bids are to be submitted to the electronic bidding system (iCX-Integrated Contractors Exchange). All bids must be submitted to the iCX system prior to 10:00 a.m. April 27, 2018 at which time the bids will be publicly opened from the iCX SecureVault.
- 2. DESCRIPTION OF WORK. The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

Contract No. 61E55 DUPAGE County Section 16-00096-00-PK (Bensenville) Project WPE6-555 () Route RAILROAD AVENUE District 1 Construction Funds

Resurfacing, sidewalk construction and roadway reconstruction on Railroad Avenue from York Avenue to Addison Street in the Village of Bensenville.

- 3. INSTRUCTIONS TO BIDDERS. (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 101.09 of the Standard Specifications for Road and Bridge Construction, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.
 - (b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
- 4. AWARD CRITERIA AND REJECTION OF BIDS. This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.

By Order of the Illinois Department of Transportation

Randall S. Blankenhorn, Secretary

CONTRACT 61E55

INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2018

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

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BDE SPECIAL PROVISIONS

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</u> Name	<u>Pg.</u>	-	Special Provision Title	Effective	<u>Revised</u>
80099			Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2014
80382	91	Х	Adjusting Frames and Grates	April 1, 2017	,
80274			Aggregate Subgrade Improvement	April 1, 2012	April 1, 2016
80192			Automated Flagger Assistance Device	Jan. 1, 2008	• •
80173			Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80241			Bridge Demolition Debris	July 1, 2009	-
5026I			Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5048I			Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5049I			Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
5053I			Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80366	93	Х	Butt Joints	July 1, 2016	
80386			Calcium Aluminate Cement for Class PP-5 Concrete Patching	Nov. 1, 2017	
80396			Class A and B Patching	Jan. 1, 2018	
80384	94	Х	Compensable Delay Costs	June 2, 2017	
80198			Completion Date (via calendar days)	April 1, 2008	
80199			Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293			Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5	April 1, 2012	July 1, 2016
			Feet		
80311			Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
80277	~~		Concrete Mix Design – Department Provided	Jan. 1, 2012	April 1, 2016
80261	98	Х	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80387	404	V	Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
* 80029	101	Х	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	April 2, 2018
80378	110	v	Dowel Bar Inserter	Jan. 1, 2017	Jan. 1, 2018
80388	112	Х	Equipment Parking and Storage	Nov. 1, 2017	Aug 1 2017
80229 80304			Fuel Cost Adjustment Grooving for Recessed Pavement Markings	April 1, 2009	Aug. 1, 2017
80304	113	Х	Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Nov. 1, 2012 Jan. 1, 2010	Nov. 1, 2017 April 1, 2016
80246	115	^	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits	Nov. 1, 2014	Jan. 1, 2018
00347			Jobsite Sampling	1100. 1, 2014	Jan. 1, 2010
80383			Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	Nov. 1, 2017
80376	114	Х	Hot-Mix Asphalt – Tack Coat	Nov. 1, 2016	
80392	115	Х	Lights on Barricades	Jan. 1, 2018	
80336			Longitudinal Joint and Crack Patching	April 1, 2014	April 1, 2016
* 80393	117	Х	Manholes, Valve Vaults, and Flat Slab Tops	Jan. 1, 2018	March 2, 2018
80045			Material Transfer Device	June 15, 1999	Aug. 1, 2014
* 80394			Metal Flared End Section for Pipe Culverts	Jan. 1, 2018	April 1, 2018
80165			Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80349			Pavement Marking Blackout Tape	Nov. 1, 2014	April 1, 2016
80371			Pavement Marking Removal	July 1, 2016	
80390	119	Х	Payments to Subcontractors	Nov. 2, 2017	
80377	120	Х	Portable Changeable Message Signs	Nov. 1, 2016	April 1, 2017
80389	121	Х	Portland Cement Concrete	Nov. 1, 2017	
80359			Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2017
80385	122	Х	Portland Cement Concrete Sidewalk	Aug. 1, 2017	
80300			Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	April 1, 2016
80328	123	X	Progress Payments	Nov. 2, 2013	
34261	124	Х	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157			Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	

	<u>File</u> Name	<u>Pg.</u>		Special Provision Title	Effective	Revised
	80306			Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 1, 2018
	80395			Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
	80340			Speed Display Trailer	April 2, 2014	Jan. 1, 2017
	80127			Steel Cost Adjustment	April 2, 2014	Aug. 1, 2017
*	80397	126	Х	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	127	Х	Subcontractor Mobilization Payments	Nov. 2, 2017	
	80317			Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	April 1, 2016
	80298			Temporary Pavement Marking (NOTE: This special provision was previously named "Pavement Marking Tape Type IV".)	April 1, 2012	April 1, 2017
	20338	128	Х	Training Special Provision	Oct. 15, 1975	
	80318			Traversable Pipe Grate for Concrete End Sections (Note: This special provision was previously named " <i>Traversable Pipe Grate</i> ".)	Jan. 1, 2013	Jan. 1, 2018
	80288	131	Х	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
	80302	133	Х	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
	80071			Working Days	Jan. 1, 2002	

The following special provisions are in the 2018 Supplemental Specifications and Recurring Special Provisions.

<u>File</u> Name	Special Provision Title	New Location	Effective	<u>Revised</u>
80368	Light Tower	Article 1069.08	July 1, 2016	
80369	Mast Arm Assembly and Pole	Article 1077.03(a)(1)	July 1, 2016	
80338	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	Recurring CS #35	April 1, 2014	April 1, 2016
80379	Steel Plate Beam Guardrail	Articles 630.02, 630.05, 630.06, and 630.08	Jan. 1, 2017	
80381	Traffic Barrier Terminal, Type 1 Special	Article 631.04	Jan. 1, 2017	
80380	Tubular Markers	Articles 701.03, 701.15, 701.18, and 1106.02	Jan. 1, 2017	

STATE OF ILLINOIS SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted April 1, 2016 (hereinafter referred to as Standard Specifications), the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included here in which apply to the construction of Railroad Ave in the Village of Bensenville, Section Number: 16-00096-00-PK, Project Number: WPE6(555), Job Number: C-91-112-18, Contract Number: 61E55, in DuPage County, and in any case of conflict with any part or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

LOCATION OF PROJECT

This project is located in the Village of Bensenville, DuPage County. The limits of the project are Railroad Ave from Addison Street to York Road. The net and gross length of the project is 761 feet (0.14 Miles).

DESCRIPTION OF PROJECT

This work consists of the pavement reconstruction, pavement resurfacing, addition of curb islands, storm sewer, stamped colored concrete sidewalks, erosion control, temporary detour, traffic staging, pavement marking, construction layout, pavement removal, bike racks, structure adjustments, driveway and curb and gutter removal and replacement and restoration.

COMPLETION SCHEDULE

Construction shall not commence until **July 1, 2018**. No construction will be allowed until all necessary permits are obtained. The project shall be completed by **October 30, 2018** plus five working days.

Failure to complete the work on time will result in assessment of liquidated damages in accordance with Section 108.09 of the Standard Specifications.

The Contractor will be required to cooperate/accommodate the construction schedule with the Village's "Music in the Park" which takes place between June 1 and October 1 on every Wednesday.

NOTIFICATION OF COMMENCING CONSTRUCTION

The Contractor shall notify affected governmental agencies, METRA at (312) 322-7093, in writing at least three full working days prior to commencement of construction. In addition, the Contractor shall notify, as necessary, all testing agencies, the Village of Bensenville at (630) 594-1196, and the Engineer at (847) 250-5635 sufficiently in advance of construction.

Failure of the Contractor to allow proper notification time which results in the testing companies to be unable to visit the site and perform testing will cause the Contractor to suspend the operation to be tested

until the testing agency can schedule testing operations. Cost of the suspension of work shall be borne by Contractor.

PRECONSTRUCTION VIDEO

Prior to the start of any construction, the Contractor shall video record the area of the construction route. The video recording shall be supplied on a DVD-ROM Disc, for playback in a standard DVD player, and viewing on a television or computer. The Contractor shall supply the Engineer with two (2) copies of the DVD prior to starting construction. The video recording shall include, but not limited to the following:

Full Right-of-Way	Parkway Condition
Curb Condition	Driveway Condition
Fire Hydrants	Pavement Condition
Sidewalk Condition	Fences

Trees and Landscaped Areas Existing Manholes

The Contractor shall also narrate the video recording with reference to the location (station or address) the video recording is being produced from. The video recordings shall also supply a continuous audio record of the location (preferably with address), all anticipated problem areas, items, and features for the complete area to be affected by the construction.

The format of recording and type of recording used shall remain the same throughout the project. The video recording shall produce a clear, stable image with a resolution of not less than 480i. When the recorded information is replayed and reviewed, it shall be free of electrical interference.

The audio portion of the composite signal shall be sufficiently free of electrical interference, background noise, and heavy foreign or regional accents to provide an oral report that is clear and complete and easily discernible. The audio portion of the video recording report shall be recorded by the operating technician as they are being produced and shall include references to the street address and type of construction to be performed at the site as specified in the plans. Audio comments pertaining to special circumstances, which may arise during the excavation, shall also be included. Dubbing the audio information onto the video tract after the video recording is completed will not be permitted.

DVD's shall be enclosed in plastic containers, which shall clearly indicate the date the DVD was taken, the designated section(s) of construction contained on the DVD, and the label "VILLAGE OF BENSENVILLE – MUN 4011 (RAILROAD AVENUE) PARKING, SIDEWLAKS, RESURFACING, RECONSTRUCTION (Project #15-R0650.02)".

The surface condition of excavated areas after final restoration shall be the same or better than the preconstruction site conditions as shown in the video.

This work shall not be paid for separately but shall be included in the cost of various contract items.

MAINTENANCE OF ROADWAYS

Effective: September 30, 1985 Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for the normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow

removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

WORK HOURS

The following work hours shall be kept in accordance with the Village of Bensenville ordinances. The Contractor may work between the hours of 7:00 a.m. and 7:00 p.m. Monday through Saturday. Work on Saturdays shall be approved by the Village on the proceeding Wednesday by 4:00 PM. However, no work will be permitted between 7:00 p.m. and 7:00 a.m., on Sundays, or on holidays (New Year's Day, Easter, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day). Any hours of operation specifically applied by any of the permitting agencies will supersede these hours when doing work at the location covered by the aforementioned permit.

PUBLIC AND RESIDENT NOTIFICATION

If the Contractor is required to remove and replace curb and gutter and/or driveways at any residences or businesses during the course of this project, the Contractor shall provide forty-eight (48) hour advance written notice to: 1) the Village of Bensenville of the scheduled work, 2) those residents or businesses affected by the work, and 3) any other residents or businesses that may potentially be adversely affected by the resurfacing, reconstruction and utility construction operations 4) the Engineer. The notification shall be of a form and method as approved by the Engineer as coordinated with the Village.

AS-BUILT DRAWINGS

The Contractor shall provide the Engineer and the Village with one copy of red-lined drawings showing field lengths and locations for all appurtenances installed as part of this contract and denoting any changes from the design as shown on the plan sheets. Distances should be given to each utility item from existing visible landmarks (surface) identified on the design plans for this project. This work shall not be paid for separately, but shall be included in the unit price of MOBILIZATION.

SAW CUT JOINTS

The removal and/or replacement of any driveways, pavement, curb, sidewalk, etc. shall be accomplished by means of a full depth saw cut joint, at the direction of the Engineer. This work will not be paid for separately, but shall be included in the unit price bid for the removal.

STREET SIGN REINSTALLATION/RELOCATION

Before construction begins, Contractor shall remove and store in a dry secure location, all street signs, stop signs, speed limit signs, no parking signs, and/or other signs designated by the Engineer to be removed. After completion of improvement, Contractor will reinstall street signs, stop signs, speed limit signs and/or other signs at locations designated by the Engineer. The Contractor shall be responsible for any damage caused to signs and shall repair or replace at his expense. If sign replacement is required, Contractor shall follow IDOT Highway Standard Drawings. Stop sign reinstallation shall include any necessary concrete foundations as required by the Engineer as coordinated with the Village for the decorative stop sign posts.

Payment for removal, temporary relocation and reinstallation/Relocation of signs shall be included in the unit price of the various items in the contract.

STOCKPILING OF MATERIALS AND END OF DAY CLEAN UP

The Engineer shall designate a specific location for stockpiling of materials prior to the start of construction. Stockpiles shall not impede traffic at any time. Any areas disturbed by stockpiles shall be restored to existing conditions and shall be considered included in the cost of the contract.

DUST CONTROL/SWEEPING

The Contractor shall be responsible for controlling the dust and airborne dirt generated by the Contractor's construction activities.

The implementation of dust control procedures shall be required if wind and dry soil conditions reduce visibility on adjacent roads and property. Concerns for health and safety to the public using adjacent facilities will be grounds for the implementation of a dust control plan. When circumstances warrant, a specific dust control plan shall be developed. The Contractor and the Engineer shall review the nature and extent of dust generating activities and cooperatively develop specific types of control techniques appropriated to that specific situation. Sample techniques that may warrant consideration include such measures as:

- 1. Minimize tracking of soil onto nearby publicly traveled roads;
- 2. Reduce vehicle speed on unpaved surfaces;
- 3. Cover haul vehicles;
- 4. Apply chemical dust suppressants or water to exposed surfaces, particularly to surfaces on which construction vehicles travel;

Dust control measures as indicated in the Dust Control Plan, or as directed by the Engineer shall be readily available for use on the project site.

Street sweeping shall be done once a week at minimum and more frequently if determined by the Engineer as coordinated with the Village. The cost of this work shall be included in the cost of MOBILIZATION and no additional compensation will be allowed.

WATER USE

The Contractor's use of Fire Hydrants is prohibited. Non-Potable water is available at Public Works, 717 E Jefferson Street, Bensenville, IL 60106, between the hours of 7:00 AM and 3:30 PM. There is no charge for the non-potable water.

DEWATERING

The contractor shall pay special attention to the soils report and boring logs for information regarding the existing water table that may be within the limits of excavation for the storm sewer installation and dewatering may be required.

Requirements:

- A. The Contractor shall design, install, and maintain dewatering equipment (wells, screens, pumps, portable power equipment, etc.) sufficient to remove and prevent water from entering excavations.
- B. Surface water shall be diverted from the excavation areas.
- C. The groundwater level shall be lowered sufficiently below the bottom of the deepest excavation prior to and during the installation of subgrade; during testing of the subgrade; and after the installation of structures or piping until no displacement or damage will result when the dewatering is discontinued.
- D. Dewatering water shall be discharged to the surface or other location as approved by the Owner and Engineer, in accordance with the plans and specifications, and conforming to the permitting requirements of all applicable regulatory agencies.
- E. Any dewatering required shall be done in accordance with IEPA standards and shall be in compliance with the Illinois Urban Manual and the NPDES permit. At minimum, a Dandy Dewatering Bag shall be used at all dewatering locations.

This work will not be paid for separately, but shall be considered included in the unit price for storm sewer.

AVAILABLE REPORTS

 \Box No project specific reports were prepared.

When applicable, the following checked reports and record information is available for Bidders' reference upon request:

- □ Record structural plans
- □ Preliminary Site Investigation (PSI)
- Preliminary Environmental Site Assessment (PESA)
- ⊠ Soils/Geotechnical Report
- \boxtimes Boring Logs
- ☑ Pavement Cores
- □ Location Drainage Study (LDS)
- □ Hydraulic Report
- □ Noise Analysis
- □ Other: _____

Those seeking these reports should request access from:

Mark A. Wesolowski, PE, CFM, Senior Project Manager Robinson Engineering, Ltd. (815) 412-2710 or Mwesolowski@reltd.com

PATCHING LIMITATIONS

No pavement patching will be permitted after Friday at 3:00 PM of every week and no holes will be allowed to remain open overnight or over the weekend.

TREE PRESERVATION

The Contractor shall be aware of locations on the plans where existing trees and bushes are to remain. All potential conflicts with existing vegetation shall be brought to the Engineer's attention for resolution. The Contractor shall be responsible for protecting trees and bushes and to minimize the potential for damage to these. Trees or bushes determined by the Engineer, as coordinated with the Village, to be sufficiently damaged by the Contractor's work shall be replaced to the satisfaction of the Engineer without any additional compensation. Species and sizes of replacement trees and/or bushes shall be as similar as possible to those damaged by the work; however, Ash trees shall not be permitted.

The cost of compliance with this requirement shall be paid for at the contract unit price per EACH for TREE TRUNK PROTECTION and will include all materials, equipment and labor required to complete the work as specified above.

AGGREGATE SUBGRADE IMPROVEMENT (D-1)

Effective: February 22, 2012 Revised: April 1, 2016

Add the following Section to the Standard Specifications:

"SECTION 303. AGGREGATE SUBGRADE IMPROVEMENT

303.01 Description. This work shall consist of constructing an aggregate subgrade improvement.

303.02 Materials. Materials shall be according to the following.

	Item	Article/Section
(a)	Coarse Aggregate	
(b)	Reclaimed Asphalt Pavement (RAP) (Notes 1, 2 and 3)	

Note 1. Crushed RAP, from either full depth or single lift removal, may be mechanically blended with aggregate gradation CS 01 but shall not exceed 40 percent by weight of the total product. The top size of the Coarse RAP shall be less than 4 in. (100 mm) and well graded.

Note 2. RAP having 100 percent passing the 1 1/2 in (37.5 mm) sieve and being well graded, may be used as capping aggregate in the top 3 in. (75 mm) when aggregate gradation CS 01 is used in lower lifts. When RAP is blended with any of the coarse aggregates, the blending shall be done with mechanically calibrated feeders. The final product shall not contain more than 40 percent by weight of RAP.

Note 3. The RAP used for aggregate subgrade improvement shall be according to the current Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".

303.03 Equipment. The vibratory machine shall be according to Article 1101.01, or as approved by the Engineer. The calibration for the mechanical feeders shall have an accuracy of \pm 2.0 percent of the actual quantity of material delivered.

303.04 Soil Preparation. The stability of the soil shall be according to the Department's Subgrade Stability Manual for the aggregate thickness specified.

303.05 Placing Aggregate. The maximum nominal lift thickness of aggregate gradation CS 01 shall be 24 in. (600 mm).

303.06 Capping Aggregate. The top surface of the aggregate subgrade shall consist of a minimum 3 in. (75 mm) of aggregate gradations CA 06 or CA 10. When Reclaimed Asphalt Pavement (RAP) is used, it shall be crushed and screened where 100 percent is passing the 1 1/2 in. (37.5 mm) sieve and being well graded. RAP that has been fractionated to size will not be permitted for use in capping. Capping aggregate will not be required when the aggregate subgrade improvement is used as a cubic yard pay item for undercut applications. When RAP is blended with any of the coarse aggregates, the blending shall be done with mechanically calibrated feeders.

303.07 Compaction. All aggregate lifts shall be compacted to the satisfaction of the Engineer. If the moisture content of the material is such that compaction cannot be obtained, sufficient water shall be added so that satisfactory compaction can be obtained.

303.08 Finishing and Maintenance of Aggregate Subgrade Improvement. The aggregate subgrade improvement shall be finished to the lines, grades, and cross sections shown on the plans, or as directed by the Engineer. The aggregate subgrade improvement shall be maintained in a smooth and compacted condition.

303.09 Method of Measurement. This work will be measured for payment according to Article 311.08.

303.10 Basis of Payment. This work will be paid for at the contract unit price per cubic yard (cubic meter) for AGGREGATE SUBGRADE IMPROVEMENT or at the contract unit price per square yard (square meter) for AGGREGATE SUBGRADE IMPROVEMENT, of the thickness specified.

Add the following to Section 1004 of the Standard Specifications:

"1004.07 Coarse Aggregate for Aggregate Subgrade Improvement. The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate shall be crushed gravel, crushed stone, or crushed concrete. The top 12 inches of the aggregate subgrade improvement shall be 3 inches of capping material and 9 inches of crushed gravel, crushed stone or crushed concrete. In applications where greater than 36 inches of subgrade material is required, rounded gravel, meeting the CS01 gradation, may be used beginning at a depth of 12 inches below the bottom of pavement.

- (b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials. Non-mechanically blended RAP may be allowed up to a maximum of 5.0 percent.
- (c) Gradation.
 - (1) The coarse aggregate gradation for total subgrade thicknesses of 12 in. (300 mm) or greater shall be CS 01.

	COARSE AGGREGATE SUBGRADE GRADATIONS						
Grad No.	Sieve Size and Percent Passing						
Grad No.	8″	6″	4″	2″	#4		
CS 01	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20		

	COARSE AGGREGATE SUBGRADE GRADATIONS (Metric)					
Grad No.	Sieve Size and Percent Passing					
Grau NO.	200 mm	150 mm	100 mm	50 mm	4.75 mm	
CS 01	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20	

(2) The 3 in. (75 mm) capping aggregate shall be gradation CA 6 or CA 10.

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

This work consists of the construction of Portland cement concrete sidewalk (6-bag mix) at locations shown on the plans, in accordance with applicable portions of Section 424 of the Standard Specifications, the details on the plans and as directed by the Engineer.

A 4" thick aggregate limestone base course shall be constructed under all proposed sidewalks. Aggregate used for the base course shall be of CA-6 gradation and shall meet the requirements of Article 1004.04 of the Standard Specifications, the use of crushed concrete and slag will not be allowed. The aggregate used for base course shall be considered included in the cost of PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH and will not be paid for separately.

The cost of any excavation which may be necessary to construct the proper subgrade elevations shall be included in the unit price bid per CUBIC YARD for EARTH EXCAVATION (SPECIAL).

This work shall be measured for payment in place and the area computed in square feet. This work shall be paid for at the contract unit price per SQUARE FOOT for PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, which price shall include all labor, material and equipment required to construct the new sidewalk as specified herein and as shown on the plans or as directed by the engineer

DETECTABLE WARNINGS

Where existing walk is to be replaced adjacent to new curb at the intersection returns or in locations as directed by the Engineer, a sidewalk ramp shall be constructed in accordance with the applicable IDOT Standard for Curb Ramps for Sidewalks and Section 424.09 of the Standard Specifications except as modified herein. Sidewalk ramp replacements at intersection corners shall be performed in accordance

with latest ADA standards adopted by the Illinois Department of Transportation in effect at the time bids are received.

Detectable Warnings to be used shall be prefabricated inserts made of polymer composite material, "Tuf-Tile", yellow in color and shall be two feet in length by a minimum of five feet. The plates shall be manufactured to meet the curvature of the adjacent curb. The contractor shall furnish and install detectable warning plates that meet the Village's Standards as included in the plans. The Contractor is responsible for the installation of the device according to the manufacturer's specifications and the handicap ramp as described in the contract plans and specifications. Dyed or painted concrete will not be allowed.

This work will be paid for at the contract unit price per SQUARE FOOT for DETECTABLE WARNINGS and will include all materials, equipment and labor required to complete the work as specified above.

SIDEWALK REMOVAL

This item includes the complete removal of concrete sidewalks at locations designated by the Engineer. Sidewalk removal shall be completed in accordance with Section 440 of the Standard Specifications.

The Contractor shall remove existing sidewalk by means of a saw cut to prevent damage to that portion which is to remain in place. Any tree roots within the aggregate base shall be removed prior to installation of any new sidewalk and shall be included in the unit price of this pay item.

The removal and disposal of any existing tree grates within the sidewalk removal area shall be included in the unit price of this pay item.

This work will be paid for at the contract unit price per SQUARE FOOT for SIDEWALK REMOVAL and will include all equipment and labor required to complete the work as specified above.

PIPE UNDERDRAINS, TYPE 1, 4"

This work shall be done in accordance with Section 601 of the Standard Specifications except as modified herein. The center of the pipe underdrains shall be placed 6" from the edge of the proposed curb and gutter or as directed by the Engineer. The pipe underdrain shall maintain a minimum slope of 0.20% throughout the length of the underdrain run. The trench width, depth and backfill shall conform to the applicable portions of Section 601 of the Standard Specifications. The underdrain shall be plugged in accordance with the Standard Specifications at the upstream dead end and shall be cored in to the proposed storm sewer structures. The coring of the structures shall not be paid for separately but shall be included in the contract unity price for Pipe Underdrains, Type 1, 4".

This work shall be measured in place and paid for at the contract unit price per lineal foot for PIPE UNDERDRAINS, TYPE 1, 4".

COMBINATION CONCRETE CURB AND GUTTER / CONCRETE CURB

This item shall consist of the installation of Combination Concrete Curb and Gutter, Type B-6.12 and Concrete Curb, Type B, all in accordance with Sections 440 and 606 of the Standard Specifications, and as detailed in the plans.

A 4" thick aggregate limestone base course shall be constructed under all new curb and gutter. Aggregate used for the base course shall be of CA-6 gradation and shall meet the requirements of Article 1004.04 of the Standard Specifications, the use of crushed concrete and slag will not be allowed.

The aggregate used for base course shall be considered included in the cost of the respective curb, and will not be paid for separately.

The cost of any excavation which may be necessary to construct the proper subgrade elevations shall be included in the unit price bid per CUBIC YARD for EARTH EXCAVATION (SPECIAL).

All new curb and/or curb and gutter shall have saw cut contraction joints two inches (2") deep at twentyfoot (20') intervals. This saw cutting shall be completed no later than twenty-four (24) hours after the curb and gutter has been poured. Expansion and construction joints shall be as directed by the Standard Specifications and Standard Drawings.

One inch (1") preformed joint filler along with two (2) one-inch diameter dowel bars grouted in place shall be used where new curb and or curb and gutter meet existing curb and/or curb and gutter.

Two (2) coats of white pigment curing compound shall be applied immediately after initial set.

All existing pavement removed due to the removal and replacement of combination concrete curb and gutter adjacent to existing pavement that is to remain shall be replaced with a patch consisting of HMA Binder, as specified for Class D Patches, at a minimum depth of seven inches (7") to a point not less than two inches (2") below the top of the gutter flag (for roads/parking lot that are to be milled) and to the existing surface elevation for roads that will not be milled. Aggregate Base Course Type B shall be used below the HMA patch to the bottom of the curb. Saw cutting shall be required as directed by the Engineer to secure a straight joint and shall be a minimum of 18 inches in width to allow for proper compaction. Concrete will not be allowed to fill the gap between the new curb and existing pavement.

For proposed curb and gutter adjacent to existing concrete pavement that is to remain, the curb and gutter shall be constructed along a straight saw cut line and doweled into the existing concrete pavement. If a straight saw cut joint cannot be obtained at the curb and gutter location, then a minimum of 18" of the concrete pavement shall be removed and patched in accordance with the above.

Dowel bars for connection of the new curb and gutter to the existing concrete pavement shall be paid for as DRILL AND GROUT #6 TIE BARS.

This work will be paid for at the contract unit price per FOOT for COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12, and CONCRETE CURB, TYPE B, and shall include saw cutting, disposal, materials, labor, equipment, reinforcing bars, expansion material, HMA patching, etc. that is required due to the installation of the curb and/or curb and gutter. Restoration (topsoil, sodding, or seeding and nutrients) for areas disturbed by curb removal shall be paid for separately.

CLEAN CONSTRUCTION / DEMOLITION DEBRIS (CCDD) REQUIREMENTS PER 35 IAC 1100

Soils information was gathered for this project in accordance with the criteria set forth in 35 Illinois Administrative Code (IAC) 1100 as amended on August 27, 2012.

The soils information for this project along with a copy of the 663 form for portions of the project are available for the Contractor upon request.

Based on the above referenced reports, all soils removed from Railroad Avenue, east of Center Street, shall be considered to be Non-Special Waste and shall be properly disposed.

If the Contractor's receiving facility does not consider the removed soils Non-Special Waste based on the above information, the Contractor shall pay for any and all additional disposal costs and/or testing/sampling required to categorize soils as Non-Special Waste.

If any contaminated soil is encountered that requires landfill disposal as a special waste or hazardous waste, it will be paid for per Article 109.04 of the Standard Specifications. Non-special waste shall be paid for at the contract price per CUBIC YARD for NON-SPECIAL WASTE DISPOSAL.

BICYCLE RACKS

This work shall consist of the furnishing and installation of bicycle racks at locations as indicated by the Engineer. The bicycle racks shall be DuMor, Inc., 290 Series. The color of the finish shall be coordinated with the Village prior to ordering the product.

The bicycle racks shall be installed in accordance with the manufacturer's specifications.

This work shall be paid for at the contract unit price EACH for BICYCLE RACKS, which price shall include all material, labor and equipment necessary for the furnishing and installation of the bicycle racks.

CONSTRUCTION LAYOUT

The Contractor shall be responsible for the field layout of all work including the establishment of all lines and grades necessary for proper execution of the work. This work shall be done in accordance with applicable portions of Section 105 and Check Sheet #9 and #10 of the Standard Specifications and Supplemental Specifications and Recurring Special Provisions, all latest edition except as herein modified.

Contractor is required to solicit or have in his employ a qualified Illinois Registered Professional Land Surveyor who will be responsible for establishing lines and grades necessary to construction of this job.

Prior to the commencement of construction, the Contractor shall make known to the Owner and Engineer the person responsible for this work.

All termination points for the reconstruction, resurfacing, milling, new pavement, pavement markings and the locations of the castings to be adjusted to grade <u>shall be approved and/or directed by the Engineer</u>.

The Contractor shall be responsible for the supervision of said construction engineering personnel and any and all errors resulting from the operations of such personnel and shall be corrected at the Contractor's expense.

The Contractor shall provide assistance, including qualified helpers and equipment as may be requested by the Resident Engineer to verify that the accuracy of lines, grades, elevations and/or finished construction are in conformance with these specifications. Minor changes in the lines may be permitted to facilitate the work, provided said changes incur no degradation of the finished work and have met with the prior approval of the Resident Engineer.

All final pavement and gutter grades shall provide proper drainage. There shall be no areas where ponding can occur after the project is complete. The Contractor is responsible to correct all problems at no additional cost to the Village.

Notice is given to the contractor that all layout work is his responsibility. <u>This includes establishment of sidewalk grades that shall maintain a minimum five-foot area at 2% maximum cross slope, and establishment of drain pipe locations for the planter boxes to ensure proper drainage of the <u>sidewalks</u>. This work will be paid at the established unit prices for the work involved, i.e. sidewalk, driveway, and sodding, etc. <u>A Pre-Pour Meeting will be held to determine if grades are acceptable</u>. If a contractor places sidewalks without inspection, the contractor will be solely responsible for any necessary removal and replacement.</u>

This work shall be paid for at the contract LUMP SUM price for CONSTRUCTION LAYOUT, which shall include all labor, material and equipment necessary to complete the work.

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED

This work shall consist of the adjustment of storm structures and/or utility structures, water valve boxes, water valve vaults, sanitary sewer structures, etc., that are within the limits of the proposed roadway reconstruction or resurfacing and as shown on the plans, or as directed by the Engineer in the field to be adjusted. This work shall be done in accordance with applicable portions of Section 602 and 603 of the Standard Specifications. Structures shall be adjusted to meet the proposed finished grade.

All structures to be adjusted shall include furnishing and installation of new frames and lids/grates. The frames shall be of the same height as the as the total HMA pavement thickness in the reconstruction areas. The lids/grates shall be in accordance with the Village of Bensenville's standard details. The existing frames and lids shall be salvaged and shall be delivered to Public Works. The cost of furnishing and installation of the new frame and lid/grate along with the removal, salvaging and delivery of the existing frame and lid/grate to Public Works shall not be paid for separately, but shall be included in the cost of the Structures to be Adjusted.

Fiberglass or rubber adjusting rings shall be used to adjust the frames to grade in the resurfacing areas. Concrete rings (maximum 3 rings) with 12-inch total height may be used for adjustments within the reconstruction areas. All adjusting rings shall not be paid for separately, but shall be considered included in the cost of the Structures to be Adjusted.

This work shall be paid for at the contract unit price, EACH for DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED, which price shall include all labor, materials, equipment, etc. as required for the structure adjustment.

DRAINAGE STRUCTURES TO BE REMOVED

This work shall consist of the removal of existing drainage structures, valve vaults or sanitary manholes at those locations as shown on the plans or as directed by the engineer in the field. This work shall be done in accordance with Section 605 of the Standard Specifications. Trenches falling under or within two feet

(2') of proposed pavement, driveways, curb and gutter, or sidewalks shall be backfilled in accordance with section 208.

This will be paid for at the contract unit price per EACH for DRAINAGE STRUCTURE TO BE REMOVED, which includes all work specified herein.

BUS SHELTER REMOVE AND RELOCATE

This work includes the removal, storage, security and relocation of the existing bus shelter located in the Village/Metra Parking Lot. The Contractor shall be responsible for removing the existing shelter without damage. Damage to the existing shelter will result in the Contractor furnishing a new shelter at his/her own expense. Once removed, the shelter shall be stored onsite in a secure location to prevent any damage during construction. The shelter shall be stored onsite in a location approved by the Engineer.

The shelter shall be relocated to the location shown on the plans or as directed by the Engineer as coordinated with the Village.

This work shall be paid for at the contract unit price per EACH for BUS SHELTER REMOVE AND RELOCATE which shall include the removal and relocation, proper anchoring, and all necessary equipment, labor and materials needed to complete the work mentioned herein.

PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE

This work includes the connection of the proposed storm sewers to the existing structures at locations shown on the plans. The proposed connection shall be neatly cut and the area between the cut out and sewer filled with brick and mortar in accordance with Section 550.

This will be paid for at the contract unit price per EACH for PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE of the size indicated on the plans, which includes all work specified herein.

STORM SEWER CONNECTION

This work shall be performed in accordance with the details shown on the plans. The existing pipe shall be sawcut and removed, or removed to the nearest joint, a new pipe placed, size to match existing, a concrete collar or coupling constructed as detailed, and grout placed at connection to the proposed structure.

All cost of labor, materials, tools and equipment necessary to connect existing pipe to proposed structure, including the pipe extension, pipe bends, pipe removal, grout and coupling or collar shall be included in the contract unit price per EACH for STORM SEWER CONNECTION of the size indicated on the plans.

RELOCATE LIGHTING UNITS AND POLES

This work shall consist of the relocation of lighting units (pole, mast arm, luminaire, all wiring and hardware, and all appurtenances including signage) at locations shown on the plans or as directed by the engineer. This work shall be in accordance with the details in the contract drawings and Section 844 of the Standard Specifications, except as modified herein.

An on-site meeting shall be held with the Village, Contractor, and Engineer before any work is done on the lighting system.

Existing foundations shall be removed in accordance with Article 842.04 of the Standard Specifications. The foundation materials shall be disposed of off-site. The holes shall be backfilled with clay or topsoil available on site. The foundations shall be removed in their entirety. Underground conduits and cables shall be separated from the foundation at 2.5 feet below grade and shall be abandoned or re-used as indicated.

The lighting units will be relocated along the line of the existing unit duct. The unit duct and wire on the shortened side of the relocation shall be reused and reconnected to the relocated lighting unit. Care should be taken during removal operations so that enough wire and duct slack is saved to enter the new foundation and the relocated light pole without splicing. New wire will not be paid for separately and shall be considered included in the cost of this item.

New unit duct and conduit shall be installed to the next pole in line on the lengthened side of the relocation to avoid underground splices. Unit duct shall be bored and pulled under paved areas. Unit duct will not be paid separately and shall be UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE.

No underground splices will be allowed. Splices shall only occur in the pole handholes as approved by the Engineer. Pole to pole unit duct and conductors shall be continuous without splices.

The equipment ground shall be continuous from the controller to each pole handhole, up to the last pole of each lighting circuit. The contractor shall ensure for acceptable ground resistance.

Poles shall be relocated onto new foundations as shown in the detail drawings. The embedment depth shall be 7 feet. Foundations will not be paid for separately.

This work will be paid for at the contract unit price per EACH for RELOCATE LIGHTING UNITS AND POLES which price shall be full compensation for all equipment, labor and materials.

RAILROAD RIGHT-OF-WAY ENTRY PERMIT

The contractor shall be responsible for entering into an agreement with Metra for proposed work within the railroad right-of-way. All costs associated with the Metra Right of Entry Agreement (copy enclosed) including but not limited to the formulation, execution and filing liability insurance requirements of the Right of Entry agreement shall be the responsibility of the contractor, which shall be paid for at the contract unit price per EACH for RAILROAD RIGHT-OF-WAY ENTRY PERMIT.

STORM SEWERS, CLASS B, TYPE 2 8"

The work shall be done in accordance with Section 550 of the Standard Specifications and shall consist of sewer pipe complete in place, including all necessary fittings and connections to existing or proposed storm sewer or structure; sawcutting; excavation; bracing, bedding and covering of pipe; trench dewatering; finish grading; removal and disposal of waste excavated materials and existing sewers and structures as required; protection, replacement, or repair of utilities.

The **<u>Storm Sewer PVC SDR-26</u>** shall be done in accordance with Section 550 of the Standard Specifications insofar as applicable for the size indicated on the plans.

PVC SDR-26 shall meet ASTM D-3034 pipe and D-3212 joint specifications.

Pipe shall be subject to rejection for failure to conform to the requirements of specifications or for the following reasons:

*Fractures or cracks passing through pipe wall or socket, except single cracks not exceeding 2 inches in length at either end of pipe or single chip in the socket exterior for which the mathematical sum of width, depth, and length does not exceed 6 inches, unless these defects exist in more than 5 percent of entire shipment or delivery.

*Chips or fractures on the interior or pipe exceeding 2 inches in length, 1-inch in width, and of depth more than 1/8-barrel thickness.

*Cracks sufficient to impair strength, durability, or serviceability of pipe.

*Defects indicating improper proportioning, mixing, and molding.

*Variations of more than 1/8-inch/lineal foot in alignment of pipe intended to be straight.

*Damaged ends, where such damage would prevent making satisfactory joint.

*Extensive patching or painting of any surface or pipe with exception of miter pipe formed by removal of wedge shaped sections from middle of pipe.

Acceptance of fittings, stubs, miters, cutoff or other specially fabricated pipe sections shall be based on visual inspection at the job site.

Backfilling shall be done in accordance with the Trench Backfill, Special special provision.

This work shall be paid for at the contract unit price per FOOT for STORM SEWERS, CLASS B, TYPE 2 8" which price shall include all materials, equipment and labor required to complete the work as specified above.

EARTH EXCAVATION (SPECIAL)

This work shall consist of the removal and disposal of all existing materials as necessary for the reconstruction of the proposed roadway (including aggregate base, aggregate driveways, aggregate areas adjacent to driveways, parkway excavation/grading, etc.) unless otherwise specifically called out by specific pay item(s). This work shall also include the required excavation and/or embankment required to construct the proposed roadway, curb and sidewalk subgrade to the proper elevations, along with all necessary parkway shaping and regrading. Any backfilling required behind the proposed curb and gutter along the south and north side of Railroad Ave shall be considered included in the unit price for this item. The quantity of earth excavation is 510 CY. Earth excavation, the placement of all suitable excavated materials in the subgrade, or as replacement unless specifically called out by separate pay item shall be included in Earth Excavation (Special). This work shall be as specified and in accordance with applicable Sections 202, 204 and 205 of the Standard Specifications. All excess material generated from the construction of the improvements shall be disposed of properly by the Contractor.

Earth Excavation (Special) shall also include the removal, and/or removal and reinstallation of any existing landscaping items within the project area, such as landscape stones, landscape retaining walls, landscape timbers, rocks, planters, etc. The removed landscape items shall be disposed of properly or stockpiled until they can be properly replaced or discarded, per the direction of Village.

This work will be paid for at the contract unit price per CUBIC YARD for EARTH EXCAVATION (SPECIAL) in accordance with method (a) in section 202.07 of the Standard Specifications.

TRENCH BACKFILL, SPECIAL

All materials used for trench backfill under and within two feet (2') of paved areas, including streets, curbs, sidewalks and driveways shall be gradation CA-6 and shall meet the requirements of Article 1004 of the Standard Specifications.

All trench widths shall be kept to a minimum during construction operations. Trench Backfill will be paid at a maximum width of 1.5 feet each side of the outside of the storm sewer, water main or sanitary sewer. The Contractor shall take great care while jetting and tamping during backfilling operations to ensure proper compaction of materials, including areas under unpaved surfaces. All trenches shall be backfilled to the proper subgrade elevation in accordance with Section 208 of the Standard Specifications.

If trench settlement occurs, the Contractor shall, at his/her own expense, perform all additional work, including further jetting, tamping and/or placement of additional aggregate, necessary to ensure both proper compaction of the trench and proper safety for motorists and pedestrians. Should trench settlement occur after surface restoration, the Contractor shall, at his own expense, remove the newly constructed pavement, driveway, curb and/or sidewalk (by straight saw cut joint) and perform all work required to properly compact the trench and prevent further settling. Restoration of all areas disturbed during the work described in this paragraph shall also be performed at the Contractor's expense.

Paved areas to be disturbed during the construction of storm sewers, water mains, structures, and other incidental construction are clearly indicated in the plans.

All trench types and backfill requirements may vary based on the depth of cover as well as the pipe material being bid. The cost for furnishing, transporting, placing and compacting the trench backfill materials required as a part of this project will be paid for at the contract unit price per CUBIC YARD of TRENCH BACKFILL, SPECIAL. No additional consideration will be given to over-excavation resulting from the use of trench boxes.

EXPLORATION TRENCH, SPECIAL

This work shall consist of constructing a trench for the purpose of verifying clearances and locations of existing utilities and water mains. The exploration trench shall be constructed at the locations directed by the Engineer.

The depth of the trench shall be variable. The width of the trench shall be sufficient to allow proper investigation of the entire trench.

After the trench has been inspected by the Engineer, in unpaved areas, the excavated material shall be used to backfill the trench in a manner satisfactory to the Engineer. Trench backfill shall be used under and within two feet (2') of paved areas, including streets, curbs, sidewalks and driveways shall be gradation CA-6 and shall meet the requirements of Article 1004 of the Standard Specifications.

Any excess materials shall be disposed of according to Article 202.03 of the Standard Specifications.

This work shall be paid for at the contract unit price per FOOT for EXPLORATION TRENCH, SPECIAL.

SODDING, SALT TOLERANT (SPECIAL)

This work shall consist of preparing the ground surface, fertilizing the areas to be sodded, and furnishing and placing the sod. The locations to be sodded shall be those grassed areas disturbed by the installation of the curb and gutter, driveway, and sidewalk removal and replacement operations. All work shall be in accordance with the applicable portions of Section 211 and 252 of the Standard Specifications. The maximum pay width shall be twenty-four inches (24") on either side of the sidewalk and driveways, and twenty-four inches (24") back of curb or as directed by the Engineer.

180 pounds of fertilizer nutrients per acre shall be applied at a 1:1:1 ratio as follows:

- 1. Nitrogen Fertilizer Nutrient 60 lb/acre
- 2. Phosphorus Fertilizer Nutrient 60 lb/acre
- 3. Potassium Fertilizer Nutrient 60 lb/acre

Watering shall be done as necessary to guarantee the growth of the sod, regardless of the number of waterings required. All watering shall be included in the unit price for SODDING, SALT TOLERANT (SPECIAL).

This work shall be measured in place and the area calculated in square yards and shall be paid for at the contract unit price bid per SQUARE YARD for SODDING, SALT TOLERANT (SPECIAL) which price shall be full compensation for all labor, equipment, material and watering to complete the work as specified in these special provisions.

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH, SPECIAL

Where existing driveways are removed, as directed by the Engineer, the removed driveway shall be restored with a minimum four inches (4") of compacted aggregate base course, Type B (CA-6), and eight inches (8") of PC Concrete as shown in the construction details and as indicated on the plans or as directed by the Engineer. This work shall be done in conformance with Sections 423 and 440 of the Standard Specifications. Written notification shall be given to all property owners a minimum of forty-eight (48) hours prior to driveway removal.

The concrete driveway pavement shall have a broom finish, unless otherwise directed by the Engineer. All types of required concrete finishes shall be included in this item.

Access to all properties shall be maintained throughout the duration of construction by means of temporary aggregate in accordance with Articles 107.09 and 402.10 of the Standard Specifications.

All grassed areas disturbed by the removal and replacement of this item shall be restored in accordance with the TOPSOIL FURNISH AND PLACE, 4" and SODDING, SALT TOLERANT (SPECIAL) pay items contained herein, and shall be paid for at the contract unit price per associated item.

The saw cutting, and any additional excavation required to construct these driveways will also be considered included in the unit price of this item. The removal of the existing driveway will be paid for at the contract unit price per SQUARE YARD for DRIVEWAY PAVEMENT REMOVAL, which price will be payment in full for all labor, materials and equipment necessary for the driveway removal, subgrade preparation and disposing of the material, all as directed by the Engineer and as specified herein.

The placement of a minimum four inches (4") of CA-6 stone will be included in the cost of the PCC driveway placement. This work will be paid for at the contract unit price per SQUARE YARD for PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH, SPECIAL, which price will be payment in full for all labor, materials and equipment necessary for the construction of the PCC driveway.

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

This work shall be performed in accordance with Article 440 of the Standard Specifications except where as modified herein. The contractor's attention is called to the fact that this item of work requires that the existing hot-mix asphalt pavement is to be completely removed in the Village/Metra Parking Lot and Railroad Ave between Addison St and Center St as designated on the Contract Plans. The existing hot-mix asphalt surface shall be removed in its entirety down to the existing aggregate base and varies in depth from three inches (3") to four inches (4"). No adjustments to the unit price shall be made for asphalt depths greater than or less that the estimated range.

This work shall be paid for at the contract unit price per SQUARE YARD for HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH.

PAVEMENT REMOVAL (SPECIAL)

This work shall consist of the removal and proper disposal of all existing pavement on Railroad Avenue as required for the reconstruction and change of geometry. This work shall be done in accordance with applicable portions of Section 440 of the Standard Specifications and shall include the removal of all HMA and Concrete pavements within the limits of the existing curb line. The approximate thickness of the existing pavement is 12-13 inches (geotechnical report and boring logs are available for the Contractor upon request). See special provision "Available Reports" for contact information.

This work will be paid for at the contract unit price per SQUARE YARD for PAVEMENT REMOVAL (SPECIAL).

STORM SEWER REMOVAL

This work shall consist of the removal of existing storm sewer in locations outside the trench of the proposed storm sewer as shown on the plans. Trenches falling under or within two feet (2') of proposed pavement or driveways shall be backfilled in accordance with the Trench Backfill, Special special provision.

The cost for the removal, backfilling and disposal of the materials within the trench of the proposed storm sewer will not be paid for separately but shall be included in the unit price for storm sewer installation.

The unit price shall include full compensation for the cost of excavation and disposal of excess materials, disposal of storm sewer pipe and appurtenances removed, and trench backfill. The cost for this work shall be paid for at the contract unit price per FOOT for STORM SEWER REMOVAL, regardless of the size.

ADJUSTING WATER SERVICE LINES

This item shall include the adjustments of any water main services, encountered by the construction of the storm sewer. The CONTRACTOR shall make every attempt possible to avoid these facilities, and if in the opinion of the Engineer, the services are damaged due to carelessness by the CONTRACTOR, no compensation will be made for the replacement of same. All work shall be in accordance with Section 563 of the Standard Specifications.

Water service repairs shall utilize approved couplings and fittings, and Type K copper tubing. All work shall be inspected by the Engineer before covering.

If adjustment of certain services is necessary, the work shall be done in a workmanlike fashion, minimizing the downtime of the residents' services, and shall include all necessary labor and materials to properly complete the adjustment. Work on this item shall be paid for at the unit price bid EACH for ADJUSTING WATER SERVICE LINES with the costs of each item as stated in the bidding schedule which price shall include the cost of all pipe, joint materials, trench backfill, labor, and equipment needed to complete the work as stated.

DRAINAGE STRUCTURES WITH SPECIAL FRAME & GRATE

This work shall consist of the furnishing and installation of the proposed drainage structures and associated East Jordan Iron Works 5120 Frame and Grate. All work shall be done in accordance with applicable portions of Section 602 of the Standard Specifications. Trenches falling under or within two feet (2') of proposed pavement, driveways, curb and gutter, or sidewalks shall be backfilled in accordance with section 208.

This work shall be paid for at the contract unit price per EACH for CATCH BASINS, TYPE A, [Size Indicated], WITH SPECIAL FRAME AND GRATE which shall include all labor, materials, equipment, etc. as required for all work specified herein.

CONCRETE CURB, TYPE B (SPECIAL)

Concrete Curb, Type B (Special) will be used to construct the **PLANTER BOXES**.

This work shall be in accordance with applicable portions of Section 606 of the Standard Specifications except as herein modified.

A 4" thick aggregate limestone base course shall be constructed under all new curb. Aggregate used for the base course shall be of CA-6 gradation and shall meet the requirements of Article 1004.04 of the Standard Specifications, the use of crushed concrete and slag will not be allowed.

The aggregate used for base course shall be considered included in the cost of the Concrete Curb, Type B (Special), and will not be paid for separately.

This work shall be performed at the direction of the Resident Engineer.

Two-inch (2") PVC drain pipe shall be placed through the curb as necessary, or as directed by the Engineer, on the upstream side of each planter box for drainage of the proposed sidewalk. The placement of the drain pipe(s) may be on any side of the planter box and will be determined in the field by the Engineer, based on the grades of the proposed sidewalk. The cost for this work shall be included in the unit price for this item.

The area inside the planter box shall be left at the existing subgrade elevation that remains from the existing sidewalk or brick paver removal.

This work shall be paid for at the contract unit price per FOOT for CONCRETE CURB, TYPE B (SPECIAL) and shall include the material labor and equipment to construct the concrete curb, aggregate base course,

PVC drain pipe, and all other necessary items of work for a complete installation. The cost for any excavation associated with the construction of the planter box shall not be paid for separately, but shall be included in the contract unit price for CONCRETE CURB, TYPE B (SPECIAL).

TRAFFIC CONTROL AND PROTECTION, (SPECIAL)

Traffic Control shall be according to the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein.

Special attention is called to Article 107.09 and Section 701 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the District One Bureau of Traffic at least 72 hours in advance of beginning work.

<u>STANDARDS</u>: 701001-02, 701006-05, 701011-04, 701301-04, 701311-03, 701501-06, 701801-06, 701901-07

<u>DETAILS</u>: TC-10 – Traffic Control and Protection for Side Roads, Intersections and Driveways, TC-13 – Typical Pavement Markings, TC 16 – Pavement Marking Letters and Symbols for Traffic Staging, TC-22 – Arterial Road Information Sign.

<u>SPECIAL PROVISIONS</u>: Maintenance of Roadways

All detour signage outlined within the project plans shall be considered included in the cost of this item.

This work shall be paid for at the contract unit price per LUMP SUM for TRAFFIC CONTROL AND PROTECTION, (SPECIAL) and will include all materials, equipment and labor required to complete the work as specified above.

EXISTING LIGHT POLE FOUNDATION ADJUSTMENT

This work shall consist of foundation adjustments of the existing light pole foundation where necessary when the existing light pole foundation is below the proposed sidewalk cross slope or as directed by the Village Engineer. The Contractor shall be responsible for removing the existing light pole without damage and reinstallation on the adjusted foundation. Damage to the light pole will result in the Contractor furnishing and installing a new pole at his/her own expense.

Existing wiring shall be disconnected once the existing light pole has been removed. The poles and luminaries shall be store onsite in a location approved by the Engineer.

The anchor bolts shall be cut flush with the top of concrete foundation.

The bolt circle of the new anchor bolts shall be rotated a minimum of 2.5-inches away from the existing anchor bolts. New anchor bolts shall be $\frac{3}{100}$ -inch diameter with minimum 12-inch embedment into the

existing concrete foundation and 3-inch threaded length above the top of foundation. New anchor bolts shall be installed using a HIT-RE 500 exposed adhesive anchoring system.

Anchor bolts shall be according to Article 1006.09 and shall be hot dipped galvanized.

The conduits, both steel and plastic duct, shall be extended to an elevation above the proposed top of foundation grade. When extending the conduits, a larger pipe, 3 inch diameter, shall be placed around the conduits and the bottom sealed to avoid encasing existing conduits in concrete.

The foundation shall be raised with concrete to an elevation of at least $\frac{3}{4}$ inch above the proposed sidewalk elevation. The concrete shall be finished level with a $\frac{3}{4}$ inch chamfer around the edge. The concrete adjustment shall be of the same shape and dimension as the existing light pole foundation.

This work shall also include all necessary wiring required to reconnect the light pole including but not limited to extending raceways, duct, and wiring.

This work shall be paid for at the contract unit price per EACH for EXISTING LIGHT POLE FOUNDATION ADJUSTMENT which will include the all necessary equipment, labor and materials to complete the work mentioned herein.

BRICK PAVER REMOVAL

This item includes the complete removal of existing brick pavers and existing bedding material at locations shown on the plans or as designated by the Engineer. Brick Paver removal shall be completed in accordance applicable portions of Section 220 and Section 440 of the Standard Specifications.

Any tree roots within the aggregate base shall be removed prior to installation of any new sidewalk and shall be included in the unit price of this pay item.

The cost of any excavation which may be necessary to construct the proposed four-inch (4") aggregate base for the new sidewalk that does not currently exist shall be paid for at the contract unity price bid per CUBIC YARD for EARTH EXCAVATION (SPECIAL).

This work will be paid for at the contract unit price per SQUARE FOOT for BRICK PAVER REMOVAL and will include all equipment and labor required to complete the work as specified above.

FURNISHING AND INSTALLING CONCRETE WHEEL STOPS

This work shall consist of furnishing and installing concrete wheel stops per the detail in the plans at the locations shown on the plans and as directed by the Engineer.

This work shall be paid for at the contract unit price per EACH for FURNISHING AND INSTALLING CONCRETE WHEEL STOPS.

STORM SEWER, DUCTILE IRON PIPE, CLASS 52, 12"

This work shall consist of the construction of 12" diameter ductile iron storm sewer at locations indicated on the plans or as directed by the Engineer. The ductile iron pipe shall conform to ANSI Specifications A21.51 or AWWA C151, and be Class 52. All ductile iron fittings shall conform to the latest ANSI A21.10 and AWWA C110. The ductile iron pipe and fittings shall be cement lined in accordance with ANSI

Specifications A21.4 and AWWA Specification C104. The pipe shall be provided with Rubber Gasket Joints that shall be in compliance with ANSI A21.11 and AWWA C111.

Pipe shall be installed in accordance with the manufacturer's specifications and instructions for the type of pipe used and applicable AWWA Standards, such as C600 and C503.

Trenches falling under or within two feet (2') of proposed pavement or driveways shall be backfilled in accordance with section 208.

Measurement shall be made along the centerline of storm sewer installed. The cost for furnishing all labor, materials and equipment necessary for excavation, disposal of spoils, construction of the new storm sewer, and backfilling will be paid for at the contract unit price per FOOT for STORM SEWER, DUCTILE IRON PIPE CLASS 52, 12".

Any trench backfill needed for this work shall be paid for at the contract unit price per CUBIC YARD for TRENCH BACKFILL, SPECIAL.

PEDESTRIAN BENCH, FURNISH AND INSTALL

This work shall consist of the furnishing and installation of pedestrian benches at locations as indicated by the Engineer. The pedestrian benches shall be DuMor, Inc., 19 Series. The color of the finish shall be coordinated with the Village prior to ordering the product.

The pedestrian benches shall be installed in accordance with the manufacturer's specifications.

This work shall be paid for at the contract unit price EACH for PEDESTRIAN BENCH, FURNISH AND INSTALL, which price shall include all material, labor and equipment necessary for the furnishing and installation of the pedestrian benches.

TRASH RECEPTACLE, FURNISH & INSTALL

This work shall consist of the furnishing and installation of Trash Receptacles at locations as indicated by the Engineer. The trash receptacles shall be DuMor, Inc., 157 Series (157-22-FTO). The color of the finish shall be coordinated with the Village prior to ordering the product.

The trash receptacles shall be installed in accordance with the manufacturer's specifications.

This work shall be paid for at the contract unit price EACH for TRASH RECEPTACLE, FURNISH & INSTALL, which price shall include all material, labor and equipment necessary for the furnishing and installation of the pedestrian benches.

STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK

This work consists of the construction of new colored stamped Portland cement concrete sidewalk at locations shown on the plans, in accordance with Sections 424 of the Standard Specifications, the details on the plans and as directed by the Engineer. No fly ash shall be allowed to be used in the Portland cement mix.

Contraction joints shall be saw cut, with 2" depth at 10 feet on center.

The pattern of the colored stamped concrete shall be a New Brick Herringbone (BST-6000) pattern manufactured by Butterfield Color of Aurora, Illinois for York Road and Ashlar Slate (BST-4000) pattern manufactured by Butterfield Color of Aurora, Illinois for Railroad Avenue, Metra Parking Lot. All stamped sidewalk shall have a 12-inch (12") hand tooled edge around the perimeter.

The color of the stamped concrete shall be integrally colored throughout the concrete and shall be U34-Brick Red Uni-Mix with a Clear Guard cure and seal of which both are manufactured by Butterfield Color of Aurora, Illinois. The contractor shall use Butterfield Color Clear Liquid Release with the stamp to prevent it from sticking to the concrete. H&C SharkGrip Slip Resistant Additive shall be used with the sealer product to make a slip-resistant surface.

Catalog materials shall be submitted to the Engineer for approval prior to ordering these materials.

A 4" thick aggregate limestone base course shall be constructed under all proposed sidewalks. Aggregate used for the base course shall be of CA-6 gradation and shall meet the requirements of Article 1004.04 of the Standard Specifications, the use of crushed concrete and slag will not be allowed. The aggregate used for base course shall be considered included in the cost of STAMPED PORTLAND CEMENT CONCRETE SIDEWALK and will not be paid for separately.

The cost of any excavation which may be necessary to construct the proper subgrade elevations shall be included in the unit price bid per CUBIC YARD for EARTH EXCAVATION (SPECIAL).

This work shall be measured for payment in place and the area computed in square feet. Any colored concrete sidewalk, even if not stamped, shall be measured and paid for as STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK of the thickness specified.

NOTE: The contractor shall be required to install a 10 ft. long test section of the Stamped Colored Portland Cement Concrete Sidewalk for review by the Village and approval by the Engineer, prior to constructing the entire sidewalk improvements. This test section shall be done for both patterns at their respective locations. The cost of this work shall be included in the unit price of this pay item.

This work shall be paid for at the contract unit price per SQUARE FOOT for STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK, of the thickness specified, which price shall include all labor, material and equipment required to construct the new colored stamped sidewalk as specified herein and as shown on the plans or as directed by the engineer.

STAMPED COLORED PORTLAND CEMENT CONCRETE CROSSWALK, 10 INCH

This work consists of the construction of new colored stamped Portland cement concrete crosswalks at locations shown on the plans, in accordance with Sections 420 of the Standard Specifications, the details on the plans and as directed by the Engineer. No fly ash shall be allowed to be used in the Portland cement mix.

Contraction joints shall be saw cut, with 2" depth at 10 feet on center.

The crosswalk pattern for York Road (Across Railroad Avenue) shall be New Brick Herringbone (BST-6000) pattern manufactured by Butterfield Color of Aurora, Illinois

The color of the stamped concrete shall be integrally colored throughout the concrete and shall be U34-Brick Red Uni-Mix with a Clear Guard cure and seal of which both are manufactured by Butterfield Color of Aurora, Illinois. The contractor shall use Butterfield Color Clear Liquid Release with the stamp to prevent it from sticking to the concrete. H&C SharkGrip Slip Resistant Additive shall be used with the sealer product to make a slip-resistant surface.

Catalog materials shall be submitted to the Engineer for approval prior to ordering these materials.

The cross walk shall have a 12" wide hand tooled edge that is cast integrally with the cross walk and shall be U34-Brick Red color consistent with the stamped portion, as shown on the detail on the plans.

A 4" thick aggregate limestone base course shall be constructed under all proposed crosswalks. Aggregate used for the base course shall be of CA-6 gradation and shall meet the requirements of Article 1004.04 of the Standard Specifications, the use of crushed concrete and slag will not be allowed. The aggregate used for base course shall be considered included in the cost of STAMPED COLORED PORTLAND CEMENT CONCRETE CROSSWALK, 10 INCH and will not be paid for separately.

This work shall be measured for payment in place and the area computed in square feet. The area measured shall include the stamped colored concrete and the ribbon curb.

The cost of any excavation which may be necessary to construct the proper subgrade elevations shall be included in the unit price bid per CUBIC YARD for EARTH EXCAVATION (SPECIAL).

This work shall be paid for at the contract unit price per SQUARE FOOT for STAMPED COLORED PORTLAND CEMENT CONCRETE CROSSWALK, 10 INCH, which price shall include all labor, material and equipment required to construct the new stamped colored portland cement concrete crosswalk as specified herein and as shown on the plans or as directed by the engineer.

OVERHEAD PARKING NUMBERING

PART 1: GENERAL

<u>DESCRIPTION OF WORK</u>: This work shall consist of furnishing and installing parking space numbering signs, posts, post foundations, aerial mounting devices, hardware, hardware, and all other related items at the locations shown in the plans (and Overhead Parking Numbering Details in the plans) or as directed by the Engineer. This work shall include all excavation and backfill; furnishing and placing concrete, Class SI; regrading; furnishing and installing galvanized steel post with cap; furnishing and installing space numbering signs, all mounting devices, hardware, and related appurtenances; and all labor, tools, and equipment necessary to complete the work as specified, including clean-up and restoration of the location.

<u>REFERENCES</u>: Work under this item shall be performed in accordance with Articles 664.04, 664.05, 1006.27(a), 1006.29, 1006.34(a), 1085.57, 1090.01, 1091.01, and Sections 729, 826, 1003, 1004, 1020, and 1021 of the Standard Specifications, except as herein modified.

STANDARDS:

A. Parking Layout Plan, as shown in the Drawings.

B. Parking space numbering, as shown in the Drawings.

<u>SUBMITTALS</u>: The Contractor shall submit shop drawings for Engineer's approval for the steel posts and caps, aerial mounting assembly, and numbering signs.

PART 2: PRODUCTS

<u>CONCRETE MATERIALS</u>: Concrete materials shall meet the requirements of Sections 1020 and 1021 the Standard Specifications. The concrete shall be Class SI and follow the Standard and District One Specifications.

<u>GALVANIZED STEEL POST AND CAP (AERIAL MOUNTED INSTALLATION)</u>: The material for the steel post and cap shall meet the requirements of Articles 1006.27(b) of the Standard Specifications. Galvanizing shall conform to Article 1006.34(a) of the Standard Specifications.

PAN WIRE AND HARDWARE (AERIAL MOUNTED INSTALLATION):

- A. The material shall conform to the requirements of Article 1085.57(a) for tether wire.
- B. All turnbuckles, eye bolts, and all other hardware shall conform to the requirements of Article 1085.57(b).

<u>METAL POST (GROUND MOUNTED INSTALLATION)</u>: The material for the metal posts, standard installation, shall conform to the requirements of Section 1006.29 of the Standard Specifications.

SPACE NUMBERING SIGNS:

- A. Sign base material shall conform to the requirements of Article 1090.01, Type 1, of the Standard Specifications.
- B. Sign face materials shall conform to the requirements of Article 1091.01, of the Standard Specifications.

PART 3: EXECUTION

<u>CONCRETE PLACEMENT</u>: Work under this item shall be performed in accordance with Section 420 of the Standard Specifications.

<u>GALVANIZED STEEL POST AND CAP (AERIAL MOUNTED INSTALLATION)</u>: The steel post shall be set as outlined in Articles 664.04 and 664.05 of the Standard Specifications. Post holes shall be augured by means of mechanical equipment.

<u>SPAN WIRE AND HARDWARE (AERIAL MOUNTED INSTALLATION)</u>: The span wire and accessories shall be installed in accordance with Section 826 of the Standard Specifications.

METAL POST (GROUND MOUNTED INSTALLATION): The metal posts shall be set as outlined in Section 729 of the Standard Specifications.

<u>SPACE NUMBERING SIGNS</u>: The signs shall be installed in accordance with Section 720 of the Standard Specifications.

This work will be paid for at the contract unit price per LUMP SUM for OVERHEAD PARKING NUMBERING and will include all materials, equipment and labor required to complete the work as specified above.

NPDES PERMIT COMPLIANCE

This project has been permitted in accordance with the requirements of the NPDES ILR40 and ILR10 general permits for storm water discharge. It shall be the Contractor's responsibility for having the Storm Water Pollution Prevention Plan (SWPPP) on site at all times. The Contractor shall also be responsible for providing the qualified personnel and performing the required inspections. Requirements for inspections are contained in the permit and on the SWPPP plan sheet.

This work will not be paid for separately, but shall be considered included in the unit price of the various items of the contract.

GENERAL

- 1. Removal of any existing benches or bicycle racks within the project area shall be considered included in the unit price for the various items in the contract. Removed benches or bicycle racks shall be delivered to Public Works located at 717 E Jefferson St, Bensenville, IL 60106.
- 2. Five-foot (5') transitions shall be used to match proposed curb and gutter and structures (frame and grates) to existing curb and gutter unless otherwise shown the transitions shall be paid for at the contract unit price for the proposed item of work specified.
- 3. The vertical and horizontal clearances between relocated water mains and proposed or existing storm sewers shall conform to the requirements of the IEPA as stated in the standard specifications for water & sewer main construction in Illinois, section 31-1.02a through 31-1.02d. When normal conditions cannot be met, only the following methods recommended by the IEPA will be acceptable to the engineer:
 - A. Both the water main and the sewer shall be constructed of slip on or mechanical joint cast or ductile iron pipe, asbestos-cement pressure pipe or prestress concrete pipe meeting water main standards, or;
 - B. The water main shall be installed inside of a steel or PVC (sdr-26) casing pipe; or;
 - C. The storm sewer crossing under the water main shall be reinforced concrete pipe meeting ASTM C76 with ASTM C361 joints and preformed flexible gasket material conforming to ASTM C443 provided the gasket is properly seated to insure water tightness.

This treatment is required for a distance of at least 10 feet horizontally on each side of the crossing. Any additional cost incurred in complying with the standard specifications and shall be considered included in the cost of the storm sewer.

- 4. All bends, tees and wyes will not be paid for directly, but shall be included in the unit bid per foot of respective size storm sewer.
- 5. All new lids/grates shall be in accordance with the Village of Bensenville's standard details, as included in the plans.
- 6. Removal of existing wheel stops shall be included in the contract unit price of various items.
- 7. Removal of existing sign posts shall be included in the contract unit price of various items.

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D-1)

Effective: November 1, 2012 Revise: January 1, 2018

Revise Section 1031 of the Standard Specifications to read:

"SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES

1031.01 Description. Reclaimed asphalt pavement and reclaimed asphalt shingles shall be according to the following.

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material resulting from cold milling or crushing an existing hot-mix asphalt (HMA) pavement. RAP will be considered processed FRAP after completion of both crushing and screening to size. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.
- (b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of preconsumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources", by weight of RAS. All RAS used shall come from a Central Bureau of Materials approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 90 percent passing the #4 (4.75 mm) sieve. RAS shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.
 - (1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.
 - (2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

1031.02 Stockpiles. RAP and RAS stockpiles shall be according to the following.

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including unprocessed RAP and FRAP) shall be identified by signs indicating the type as listed below (i.e. "Non- Quality, FRAP -#4 or Type 2 RAS", etc...).
 - (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. All FRAP shall be processed prior to testing and sized into fractions with the separation occurring

on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mix the FRAP will be used in.

- (2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, HMA (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 in. (75 mm) single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from HMA shoulders, bituminous stabilized subbases or HMA (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP or FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, plant cleanout etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

(b) RAS Stockpiles. Type 1 and Type 2 RAS shall be stockpiled separately and shall be sufficiently separated to prevent intermingling at the base. Each stockpile shall be signed indicating what type of RAS is present.

However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of Type 1 RAS with Type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

Records identifying the shingle processing facility supplying the RAS, RAS type, and lot number shall be maintained by project contract number and kept for a minimum of three years.

1031.03 Testing. FRAP and RAS testing shall be according to the following.

- (a) FRAP Testing. When used in HMA, the FRAP shall be sampled and tested either during processing or after stockpiling. It shall also be sampled during HMA production.
 - During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).
 - (2) Incoming Material. For testing as incoming material, washed extraction samples shall be run at a minimum frequency of one sample per 2000 tons (1800 metric tons) or once per week, whichever comes first.
 - (3) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Before extraction, each field sample of FRAP, shall be split to obtain two samples of 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) RAS Testing. RAS shall be sampled and tested during stockpiling according to Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources". The Contractor shall also sample as incoming material at the HMA plant.
 - (1) During Stockpiling. Washed extraction and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). Once a ≤ 1000 ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.
 - (2) Incoming Material. For testing as incoming material at the HMA plant, washed extraction shall be run at the minimum frequency of one sample per 250 tons (227 metric tons). A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). The incoming material test results shall meet the tolerances specified herein.

The Contractor shall obtain and make available all test results from start of the initial stockpile sampled and tested at the shingle processing facility in accordance with the facility's QC Plan.

Before extraction, each field sample shall be split to obtain two samples of 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 procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

1031.04 Evaluation of Tests. Evaluation of test results shall be according to the following.

(a) Evaluation of FRAP Test Results. All test results shall be compiled to include asphalt binder content, gradation and, when applicable (for slag), G_{mm}. A five test average of results from the original pile will be used in the mix designs. Individual extraction test results run thereafter, shall be compared to the average used for the mix design, and will be accepted if within the tolerances listed below.

Parameter	FRAP
No. 4 (4.75 mm)	± 6 %
No. 8 (2.36 mm)	± 5 %
No. 30 (600 μm)	± 5 %
No. 200 (75 μm)	± 2.0 %
Asphalt Binder	± 0.3 %
G _{mm}	\pm 0.03 $^{1/}$

1/ For stockpile with slag or steel slag present as determined in the current Manual of Test Procedures Appendix B 21, "Determination of Reclaimed Asphalt Pavement Aggregate Bulk Specific Gravity".

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the FRAP stockpile shall not be used in Hot-Mix Asphalt unless the FRAP representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

The Contractor shall maintain a representative moving average of five tests to be used for Hot-Mix Asphalt production.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the ITP, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)" or Illinois Modified AASHTO T-164-11, Test Method A.

(b) Evaluation of RAS Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. A five test average of results from the original pile will be used in the mix designs. Individual test results run thereafter, when compared to the average used for the mix design, will be accepted if within the tolerances listed below.

Parameter	RAS
No. 8 (2.36 mm)	± 5 %
No. 16 (1.18 mm)	± 5 %
No. 30 (600 μm)	±4%
No. 200 (75 μm)	± 2.5 %
Asphalt Binder Content	± 2.0 %

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the RAS shall not be used in Hot-Mix Asphalt unless the RAS representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

(c) Quality Assurance by the Engineer. The Engineer may witness the sampling and splitting conduct assurance tests on split samples taken by the Contractor for quality control testing a minimum of once a month.

The overall testing frequency will be performed over the entire range of Contractor samples for asphalt binder content and gradation. The Engineer may select any or all split samples for assurance testing. The test results will be made available to the Contractor as soon as they become available.

The Engineer will notify the Contractor of observed deficiencies.

Differences between the Contractor's and the Engineer's split sample test results will be considered acceptable if within the following limits.

Test Parameter	Acceptable Lim	Acceptable Limits of Precision	
% Passing:1/	FRAP	RAS	
1/2 in.	5.0%		
No. 4	5.0%		
No. 8	3.0%	4.0%	
No. 30	2.0%	4.0%	
No. 200	2.2%	4.0%	
Asphalt Binder Content	0.3%	3.0%	
G _{mm}	0.030		

1/ Based on washed extraction.

In the event comparisons are outside the above acceptable limits of precision, the Engineer will immediately investigate.

(d) Acceptance by the Engineer. Acceptable of the material will be based on the validation of the Contractor's quality control by the assurance process.

1031.05 Quality Designation of Aggregate in RAP and FRAP.

- (a) RAP. The aggregate quality of the RAP for homogeneous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.
 - (1) RAP from Class I, HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
 - (2) RAP from HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
 - (3) RAP from Class I, HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.
 - (4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.
- (b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

If the quality is not known, the quality shall be determined as follows. Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant laboratory prequalified by the Department for the specified testing. The consultant laboratory shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the Central Bureau of Materials Aggregate Lab for MicroDeval Testing, according to ITP 327. A maximum loss of 15.0 percent will be applied for all HMA applications. The fine aggregate portion of the fractionated RAP shall not be used in any HMA mixtures that require a minimum of "B" quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

1031.06 Use of FRAP and/or RAS in HMA. The use of FRAP and/or RAS shall be the Contractor's option when constructing HMA in all contracts.

- (a) FRAP. The use of FRAP in HMA shall be as follows.
 - (1) Coarse Aggregate Size (after extraction). The coarse aggregate in all FRAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
 - (2) Steel Slag Stockpiles. FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.

- (3) Use in HMA Surface Mixtures (High and Low ESAL). FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.
- (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.
- (5) Use in Shoulders and Subbase. FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, Restricted FRAP, conglomerate, or conglomerate DQ.
- (b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.
- (c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0 percent by weight of the total mix.

When FRAP is used alone or FRAP is used in conjunction with RAS, the percent of virgin asphalt binder replacement (ABR) shall not exceed the amounts indicated in the table below for a given N Design.

HMA Mixtures ^{1/2/4/}		Maximum % ABR	
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified ^{3/}
30L	50	40	30
50	40	35	30
70	40	30	30
90	40	30	30
4.75 mm N-50			40
SMA N-80			30

Max Asphalt Binder Replacement for FRAP with RAS Combination

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the percent asphalt binder replacement shall not exceed 50 % of the total asphalt binder in the mixture.
- 2/ When the binder replacement exceeds 15 % for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 % binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 %, the required virgin asphalt binder grade shall be PG64-28.

- 3/ When the ABR for SMA or IL-4.75 is 15 % or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.
- 4/ When FRAP or RAS is used alone, the maximum percent asphalt binder replacement designated on the table shall be reduced by 10 %.

1031.07 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP and/or RAS material meeting the detailed requirements specified herein.

- (a) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.
- (b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design.

The RAP, FRAP and RAS stone specific gravities (G_{sb}) shall be according to the "Determination of Aggregate Bulk (Dry) Specific Gravity (G_{sb}) or Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)" procedure in the Department's Manual of Test Procedures for Materials.

1031.08 HMA Production. HMA production utilizing FRAP and/or RAS shall be as follows.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized material.

If during mix production, corrective actions fail to maintain FRAP, RAS or QC/QA test results within control tolerances or the requirements listed herein the Contractor shall cease production of the mixture containing FRAP or RAS and conduct an investigation that may require a new mix design.

- (a) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within \pm 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.
- (b) HMA Plant Requirements. HMA plants utilizing FRAP and/or RAS shall be capable of automatically recording and printing the following information.
 - (1) Dryer Drum Plants.

- a. Date, month, year, and time to the nearest minute for each print.
- b. HMA mix number assigned by the Department.
- c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.
- Aggregate RAS and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS and FRAP are printed in wet condition.)
- i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.
- j. Accumulated mixture tonnage.
- k. Dust Removed (accumulated to the nearest 0.1 ton (0.1 metric ton))
- (2) Batch Plants.
 - a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
 - d. Mineral filler weight to the nearest pound (kilogram).
 - f. RAS and FRAP weight to the nearest pound (kilogram).
 - g. Virgin asphalt binder weight to the nearest pound (kilogram).
 - h. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected

by the Engineer prior to production and verified at the beginning of each construction season thereafter.

1031.09 RAP in Aggregate Surface Course and Aggregate Wedge Shoulders, Type B. The use of RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used shall be according to the current Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".
- (c) Gradation. The RAP material shall meet the gradation requirements for CA 6 according to Article 1004.01(c), except the requirements for the minus No. 200 (75 μ m) sieve shall not apply. The sample for the RAP material shall be air dried to constant weight prior to being tested for gradation."

STATUS OF UTILITIES (D-1)

Effective: June 1, 2016

Utility companies and/or municipal owners located within the construction limits of this project have provided the following information in regard to their facilities and the proposed improvements. The tables below contain a description of specific conflicts to be resolved and/or facilities which will require some action on the part of the Department's contractor to proceed with work. Each table entry includes an identification of the action necessary and, if applicable, the estimated duration required for the resolution.

UTILTIES TO BE ADJUSTED

Conflicts noted below have been identified by following the suggested staging plan included in the contract. The company has been notified of all conflicts and will be required to obtain the necessary permits to complete their work; in some instances resolution will be a function of the construction staging. The responsible agency must relocate or complete new installations as noted in the action column; this work has been deemed necessary to be complete for the Department's contractor to then work in the stage under which the item has been listed.

Pre-Stage

STAGE / LOCATION	ТҮРЕ	DESCRIPTION	RESPONSIBLE AGENCY	ACTION
Railroad Ave At Sta. 302+00	Overhead electric and power poles	Proposed stamped colored Portland cement concrete sidewalk and excavation in conflict with power pole	ComEd	Relocation of power pole will be necessary. Plans have been submitted to ComEd

Stage 1 – No conflicts to be resolved

Stage 2 – No conflicts to be resolved

No conflicts to be resolved (or if there are conflicts they are to be listed as noted above)

Pre-Stage: ____0 ____ Days Total Installation Stage 1: ____0 ____ Days Total Installation Stage 2: ____0 ____ Days Total Installation

The following contact information is what was used during the preparation of the plans as provided by the Agency/Company responsible for resolution of the conflict.

Agency/Company		Name of contact	Address	Phone	e-mail address
Responsible	to				
Resolve Conflict					
ComEd		Joe Stacho	1N423 Swift Road Lombard, IL 60148	630-424-5704	joe.stacho@comed.com
Comcast		Mr. Robert Schulter	688 Industrial Avenue Elmhurst, IL 60126	630-600-6349	bob.schulter@cable.comcast.com
Nicor		Mr. Bruce Koppang	1844 Ferry Road Naperville, IL 60563	630-3338-3043	bkoppan@agleresources.com
AT&T		Ms. Janet C. Ahern	1000 Commerce Drive Oak Brook, IL 60520	630-573-6414	Ja1763@att.com

UTILITIES TO BE WATCHED AND PROTECTED

The areas of concern noted below have been identified by following the suggested staging plan included for the contract. The information provided is not a comprehensive list of all remaining utilities, but those which during coordination were identified as ones which might require the Department's contractor to take into consideration when making the determination of the means and methods that would be required to construct the proposed improvement. In some instances the contractor will be responsible to notify the owner in advance of the work to take place so necessary staffing on the owners part can be secured.

Pre-Stage

STAGE / LOCATION	ТҮРЕ	DESCRIPTION	OWNER	ACTION
Railroad Ave Between Center St and York Rd	Overhead power lines	Excavation, roadway, storm sewer and sidewalks will be constructed during vicinity of power lines	ComEd	De-energizing power lines may be necessary. Plans have been submitted to ComEd.

Village of 18" Wa Bensenville main	Excavation, roadway, storm sewer and sidewalks will be constructed during vicinity of underground utilities	Village of Bensenville	Caution shall be taken when excavating/working in this area factoring in the estimated utility location and depth
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Stage 1 – No utilities requiring extra consideration

Stage 2 – No utilities requiring extra consideration

The following contact information is what was used during the preparation of the plans as provided by the owner of the facility.

Agency/Company Responsible to Resolve Conflict	Name of contact	Address	Phone	e-mail address
ComEd	Joe Stacho	1N423 Swift Road Lombard, IL 60148	630-424-5704	joe.stacho@comed.com
Village of Bensenville	Mehul Patel	717 E Jefferson St Bensenville, IL 60106	(630) 594-1196	mpatel@bensenville.il.us

The above represents the best information available to the Department and is included for the convenience of the bidder. The days required for conflict resolution should be taken into account in the bid as this information has also been factored into the timeline identified for the project when setting the completion date. The applicable portions of the Standard Specifications for Road and Bridge Construction shall apply.

Estimated duration of time provided in the action column for the first conflicts identified will begin on the date of the executed contract regardless of the status of the utility relocations. The responsible agencies will be working toward resolving subsequent conflicts in conjunction with contractor activities in the number of days noted.

The estimated relocation dates must be part of the progress schedule submitted by the contractor. A utility kickoff meeting will be scheduled between the Department, the Department's contractor and the utility companies. The Department's contractor is responsible for contacting J.U.L.I.E. prior to any and all excavation work.

ADJUSTMENTS AND RECONSTRUCTIONS (D-1)

Effective: March 15, 2011

Revise the first paragraph of Article 602.04 to read:

"602.04 Concrete. Cast-in-place concrete for structures shall be constructed of Class SI concrete according to the applicable portions of Section 503. Cast-in-place concrete for pavement patching around adjustments and reconstructions shall be constructed of Class PP-1 concrete, unless otherwise noted in the plans, according to the applicable portions of Section 1020."

Revise the third, fourth and fifth sentences of the second paragraph of Article 602.11(c) to read:

"Castings shall be set to the finished pavement elevation so that no subsequent adjustment will be necessary, and the space around the casting shall be filled with Class PP-1 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b."

Revise Article 603.05 to read:

"603.05 Replacement of Existing Flexible Pavement. After the castings have been adjusted, the surrounding space shall be filled with Class PP-1 concrete, unless otherwise noted in the plans, to the elevation of the surface of the base course or binder course. HMA surface or binder course material shall not be allowed. The pavement may be opened to traffic according to Article 701.17(e)(3)b."

Revise Article 603.06 to read:

"603.06 Replacement of Existing Rigid Pavement. After the castings have been adjusted, the pavement and HMA that was removed, shall be replaced with Class PP-1 concrete, unless otherwise noted in the plans, not less than 9 in. (225 mm) thick. The pavement may be opened to traffic according to Article 701.17(e)(3)b.

The surface of the Class PP concrete shall be constructed flush with the adjacent surface."

Revise the first sentence of Article 603.07 to read:

"603.07 Protection Under Traffic. After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b."

COARSE AGGREGATE FOR BACKFILL, TRENCH BACKFILL AND BEDDING (D-1)

Effective: November 1, 2011 Revised: November 1, 2013

This work shall be according to Section 1004.05 of the Standard Specifications except for the following:

Reclaimed Asphalt Pavement (RAP) maybe blended with gravel, crushed gravel, crushed stone crushed concrete, crushed slag, chats, crushed sand stone or wet bottom boiler slag. The RAP used shall be according to the current Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications". The RAP shall be uniformly graded and shall pass the 1.0 in. (25 mm) screen. When RAP is blended with any of the coarse aggregate listed above, the blending shall be done mechanically with calibrated feeders. The feeders shall have an accuracy of \pm 2.0 percent of the actual quantity of material delivered. The final blended product shall not contain more than 40 percent by weight RAP.

The coarse aggregate listed above shall meet CA 6 and CA 10 gradations prior to being blended with the processed and uniformly graded RAP. Gradation deleterious count shall not exceed 10% of total RAP and 5% of other by total weight.

DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (DISTRICT 1)

Effective: April 1, 2011 Revised: April 2, 2011

Add the following to Article 603.02 of the Standard Specifications:

"	(i) Temporary Hot-Mix Asphalt (HMA) Ramp (Note 1)	1030
(j)	Temporary Rubber Ramps (Note 2)	

Note 1. The HMA shall have maximum aggregate size of 3/8 in. (95 mm).

Note 2. The rubber material shall be according to the following.

Property	Test Method	Requirement
Durometer Hardness, Shore A	ASTM D 2240	75 ±15
Tensile Strength, psi (kPa)	ASTM D 412	300 (2000) min
Elongation, percent	ASTM D 412	90 min
Specific Gravity	ASTM D 792	1.0 - 1.3
Brittleness, °F (°C)	ASTM D 746	-40 (-40)"

Revise Article 603.07 of the Standard Specifications to read:

"603.07 Protection Under Traffic. After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b.

When castings are under traffic before the final surfacing operation has been started, properly sized temporary ramps shall be placed around the drainage and/or utility castings according to the following methods.

(a) Temporary Asphalt Ramps. Temporary hot-mix asphalt ramps shall be placed around the casting, flush with its surface and decreasing to a featheredge in a distance of 2 ft (600 mm) around the entire surface of the casting.

(b) Temporary Rubber Ramps. Temporary rubber ramps shall only be used on roadways with permanent posted speeds of 40 mph or less and when the height of the casting to be protected meets the proper sizing requirements for the rubber ramps as shown below.

Dimension	Requirement
Inside Opening	Outside dimensions of casting + 1 in. (25 mm)
Thickness at inside	Height of casting \pm 1/4 in. (6 mm)
edge	
Thickness at outside	1/4 in. (6 mm) max.
edge	

Width, measured	8 1/2 in. (215 mm) min
from inside opening	
to outside edge	

Placement shall be according to the manufacturer's specifications.

Temporary ramps for castings shall remain in place until surfacing operations are undertaken within the immediate area of the structure. Prior to placing the surface course, the temporary ramp shall be removed. Excess material shall be disposed of according to Article 202.03."

FRICTION AGGREGATE (D-1)

Effective: January 1, 2011 Revised: April 29, 2016

Revise Article 1004.03(a) of the Standard Specifications to read:

"1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	Allowed Alone or in Combination 5/:
		Gravel
		Crushed Gravel
		Carbonate Crushed Stone
		Crystalline Crushed Stone
		Crushed Sandstone
		Crushed Slag (ACBF)
		Crushed Steel Slag
		Crushed Concrete
HMA	Stabilized Subbase	Allowed Alone or in Combination 5/:
Low ESAL	or Shoulders	Gravel
		Crushed Gravel
		Carbonate Crushed Stone
		Crystalline Crushed Stone
		Crushed Sandstone
		Crushed Slag (ACBF)
		Crushed Steel Slag ^{1/}
		Crushed Concrete
HMA	Binder	Allowed Alone or in Combination 5/6/:
High ESAL	IL-19.0	Crushed Gravel
Low ESAL	or IL-19.0L	Carbonate Crushed Stone ^{2/}
		Crystalline Crushed Stone
	SMA Binder	Crushed Sandstone
		Crushed Slag (ACBF)
		Crushed Concrete ^{3/}

Use	Mixture	Aggregates Allowed	
НМА	C Surface and	Allowed Alone or in Con	nbination ^{5/} :
High ESAL	Leveling Binder	Crushed Gravel	
Low ESAL	IL-9.5 or IL-9.5L	Carbonate Crushed Stor	ne ^{2/}
2011 23/12		Crystalline Crushed Stor	
	SMA	Crushed Sandstone	
	Ndesign 50 Surface	Crushed Slag (ACBF) Crushed Steel Slag ^{4/}	
		-	
		Crushed Concrete ^{3/}	. h. t
HMA	D Surface and	Allowed Alone or in Con	ndination ":
High ESAL	Leveling Binder	Crushed Gravel	
	IL-9.5	Carbonate Crushed Limestone) ^{2/}	Stone (other than
	SMA	Crystalline Crushed Stor	ne
	Ndesign 50	Crushed Sandstone	
	Surface	Crushed Slag (ACBF)	
		Crushed Steel Slag ^{4/}	
		Crushed Concrete ^{3/}	
		Other Combinations Allo	owed:
		Up to	With
		25% Limestone	Dolomite
		50% Limestone	Any Mixture D
			aggregate other than
			Dolomite
		75% Limestone	Crushed Slag (ACBF)
			or Crushed Sandstone
НМА	E Surface	Allowed Alone or in Con	nbination ^{5/6/} :
High ESAL	IL-9.5		
0		Crystalline Crushed Stor	1e
	SMA	Crushed Sandstone	-
	Ndesign 80	Crushed Slag (ACBF)	
	Surface	Crushed Steel Slag	
	Junace	crushed steer sldg	
		No Limestone.	
		Other Combinations Allo	owed:
		Up to	With
		50% Dolomite ^{2/}	Any Mixture E
			aggregate
		75% Dolomite ^{2/}	Crushed Sandstone,
			Crushed Slag (ACBF),
			Crushed Steel Slag, or
			Crystalline Crushed
			Stone
			JUILE

Use	Mixture	Aggregates Allowed		
		75% Crushed Gravel ^{2/}	Crushed Sandstone,	
		or Crushed Concrete ^{3/}	Crystalline Crushed	
			Stone, Crushed Slag	
			(ACBF), or Crushed	
			Steel Slag	
HMA	F Surface	Allowed Alone or in Cor	nbination ^{5/6/} :	
High ESAL	IL-9.5			
		Crystalline Crushed Stor	Crystalline Crushed Stone	
	SMA	Crushed Sandstone		
	Ndesign 80	Crushed Slag (ACBF)		
	Surface	Crushed Steel Slag		
		No Limestone.		
		Other Combinations All	<u>owed</u> :	
		Up to	With	
		50% Crushed Gravel ^{2/} ,	Crushed Sandstone,	
		Crushed Concrete ^{3/} , or	Crushed Slag (ACBF),	
		Dolomite ^{2/}	Crushed Steel Slag, or	
			Crystalline Crushed	
			Stone	

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone (limestone) and/or crushed gravel shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
- 3/ Crushed concrete will not be permitted in SMA mixes.
- 4/ Crushed steel slag shall not be used as leveling binder.
- 5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."
- 6/ Combining different types of aggregate will not be permitted in SMA Ndesign 80."

GROUND TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER (D-1)

Effective: June 26, 2006 Revised: April 1, 2016

Add the following to the end of article 1032.05 of the Standard Specifications:

"(c) Ground Tire Rubber (GTR) Modified Asphalt Binder. A quantity of 10.0 to 14.0 percent GTR (Note 1) shall be blended by dry unit weight with a PG 64-28 to make a GTR 70-28 or a PG 58-28 to make a GTR 64-28. The base PG 64-28 and PG 58-28 asphalt binders shall meet the requirements of Article 1032.05(a). Compatible polymers may be added during production. The GTR modified asphalt binder shall meet the requirements of the following table.

Test	Asphalt Grade GTR 70-28	Asphalt Grade GTR 64-28
Flash Point (C.O.C.), AASHTO T 48, °F (°C), min.	450 (232)	450 (232)
Rotational Viscosity, AASHTO T 316 @ 275 °F (135 °C), Poises, Pa·s, max.	30 (3)	30 (3)
Softening Point, AASHTO T 53, °F (°C), min.	135 (57)	130 (54)
Elastic Recovery, ASTM D 6084, Procedure A (sieve waived) @ 77 °F, (25 °C), aged, ss, 100 mm elongation, 5 cm/min., cut immediately, %, min.	65	65

Note 1. GTR shall be produced from processing automobile and/or light truck tires by the ambient grinding method. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall contain no free metal particles or other materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois modified AASHTO T 27, *a* 50 g sample of the GTR shall conform to the following gradation requirements:

Sieve Size	Percent Passing
No. 16 (1.18 mm)	100
No. 30 (600 μm)	95 ± 5
No. 50 (300 μm)	> 20

Add the following to the end of Note 1. of article 1030.03 of the Standard Specifications:

"A dedicated storage tank for the Ground Tire Rubber (GTR) modified asphalt binder shall be provided. This tank must be capable of providing continuous mechanical mixing throughout by continuous agitation and recirculation of the asphalt binder to provide a uniform mixture. The tank shall be heated and capable of maintaining the temperature of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of \pm 0.40 percent."

Revise 1030.02(c) of the Standard Specifications to read:

"(c) RAP Materials (Note 5)1031"

Add the following note to 1030.02 of the Standard Specifications:

Note 5. When using reclaimed asphalt pavement and/or reclaimed asphalt shingles, the maximum asphalt binder replacement percentage shall be according to the most recent special provision for recycled materials.

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	Allowed Alone or in Combination 5/:
		Gravel
		Crushed Gravel
		Carbonate Crushed Stone
		Crystalline Crushed Stone
		Crushed Sandstone
		Crushed Slag (ACBF)
		Crushed Steel Slag
		Crushed Concrete
HMA	Stabilized Subbase	Allowed Alone or in Combination ^{5/} :
Low ESAL	or Shoulders	Gravel
		Crushed Gravel
		Carbonate Crushed Stone
		Crystalline Crushed Stone
		Crushed Sandstone
		Crushed Slag (ACBF)
		Crushed Steel Slag ^{1/}
		Crushed Concrete
HMA	Binder	Allowed Alone or in Combination ^{5/6/} :
High ESAL	IL-19.0	Crushed Gravel
Low ESAL	or IL-19.0L	Carbonate Crushed Stone ^{2/}
		Crystalline Crushed Stone
	SMA Binder	Crushed Sandstone
		Crushed Slag (ACBF)
		Crushed Concrete ^{3/}

Use	Mixture	Aggregates Allowed	
НМА	C Surface and	Allowed Alone or in Con	nbination ^{5/} :
High ESAL	Leveling Binder	Crushed Gravel	
Low ESAL	IL-9.5 or IL-9.5L	Carbonate Crushed Stor	ne ^{2/}
2011 23/12		Crystalline Crushed Stor	
	SMA	Crushed Sandstone	
	Ndesign 50 Surface	Crushed Slag (ACBF) Crushed Steel Slag ^{4/}	
		-	
		Crushed Concrete ^{3/}	. h. t
HMA	D Surface and	Allowed Alone or in Con	ndination ":
High ESAL	Leveling Binder	Crushed Gravel	
	IL-9.5	Carbonate Crushed Limestone) ^{2/}	Stone (other than
	SMA	Crystalline Crushed Stor	ne
	Ndesign 50	Crushed Sandstone	
	Surface	Crushed Slag (ACBF)	
		Crushed Steel Slag ^{4/}	
		Crushed Concrete ^{3/}	
		Other Combinations Allo	owed:
		Up to	With
		25% Limestone	Dolomite
		50% Limestone	Any Mixture D
			aggregate other than
			Dolomite
		75% Limestone	Crushed Slag (ACBF)
			or Crushed Sandstone
НМА	E Surface	Allowed Alone or in Con	nbination ^{5/6/} :
High ESAL	IL-9.5		
0		Crystalline Crushed Stor	1e
	SMA	Crushed Sandstone	-
	Ndesign 80	Crushed Slag (ACBF)	
	Surface	Crushed Steel Slag	
	Junace	crushed steer sldg	
		No Limestone.	
		Other Combinations Allo	owed:
		Up to	With
		50% Dolomite ^{2/}	Any Mixture E
			aggregate
		75% Dolomite ^{2/}	Crushed Sandstone,
			Crushed Slag (ACBF),
			Crushed Steel Slag, or
			Crystalline Crushed
			Stone
			JUILE

Use	Mixture	Aggregates Allowed		
		75% Crushed Gravel ^{2/}	Crushed Sandstone,	
		or Crushed Concrete ^{3/}	Crystalline Crushed	
			Stone, Crushed Slag	
			(ACBF), or Crushed	
			Steel Slag	
HMA	F Surface	Allowed Alone or in Cor	nbination ^{5/6/} :	
High ESAL	IL-9.5			
		Crystalline Crushed Stor	Crystalline Crushed Stone	
	SMA	Crushed Sandstone		
	Ndesign 80	Crushed Slag (ACBF)		
	Surface	Crushed Steel Slag		
		No Limestone.		
		Other Combinations All	<u>owed</u> :	
		Up to	With	
		50% Crushed Gravel ^{2/} ,	Crushed Sandstone,	
		Crushed Concrete ^{3/} , or	Crushed Slag (ACBF),	
		Dolomite ^{2/}	Crushed Steel Slag, or	
			Crystalline Crushed	
			Stone	

- 7/ Crushed steel slag allowed in shoulder surface only.
- 8/ Carbonate crushed stone (limestone) and/or crushed gravel shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
- 9/ Crushed concrete will not be permitted in SMA mixes.
- 10/ Crushed steel slag shall not be used as leveling binder.
- 11/ When combinations of aggregates are used, the blend percent measurements shall be by volume."
- 12/ Combining different types of aggregate will not be permitted in SMA Ndesign 80."

HMA MIXTURE DESIGN REQUIREMENTS (D-1)

Effective: January 1, 2013 Revised: January 1, 2018

1) Design Composition and Volumetric Requirements

Revise the table in Article 406.06(d) of the Standard Specifications to read:

"MINIMUM COMPACTED LIFT THICKNESS	
Mixture Composition	Thickness, in. (mm)
IL-4.75	3/4 (19)
SMA-9.5, IL-9.5, IL-9.5L	1 1/2 (38)
SMA-12.5	2 (50)
IL-19.0, IL-19.0L	2 1/4 (57)"

Revise the table in Article 1004.03(c) of the Standard Specifications to read:

"Use	Size/Application	Gradation No.	
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 16	
Class A-1	1/2 in. (13 mm) Seal	CA 15	
Class A-2 & 3	Cover	CA 14	
HMA High ESAL	IL-19.0	CA 11 ^{1/}	
	IL-9.5	CA 16, CA 13 ^{3/}	
HMA Low ESAL	IL-19.0L	CA 11 ^{1/}	
	IL-9.5L	CA 16	
	Stabilized Subbase	Stabilized Subbase	
	or Shoulders		
SMA ^{2/}	1/2 in. (12.5mm)	CA13 ^{3/} , CA14 or CA16	
	Binder & Surface		
	IL 9.5	CA16, CA 13 ^{3/}	
	Surface		

1/ CA 16 or CA 13 may be blended with the gradations listed.

- 2/ The coarse aggregates used shall be capable of being combined with stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation and mineral filler to meet the approved mix design and the mix requirements noted herein.
- 3/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve.

Revise Article 1004.03(e) of the Supplemental Specifications to read:

"(e) Absorption. For SMA the coarse aggregate shall also have water absorption ≤ 2.0 percent."

Revise the last paragraph of Article 1102.01 (a) (5) of the Standard Specifications to read:

"IL-4.75 and Stone Matrix Asphalt (SMA) mixtures which contain aggregate having absorptions greater than or equal to 2.0 percent, or which contain steal slag sand, shall have minimum surge bin storage plus haul time of 1.5 hours."

Revise the nomenclature table in Article 1030.01 of the Standard Specifications to read:

"High ESAL	IL-19.0 binder;
	IL-9.5 surface; IL-4.75; SMA-12.5, SMA-
	9.5
Low ESAL	IL-19.0L binder; IL-9.5L surface;
	Stabilized Subbase (HMA) ^{1/} ;
	HMA Shoulders ^{2/}

1/ Uses 19.0L binder mix.

2/ Uses 19.0L for lower lifts and 9.5L for surface lift."

Revise Article 1030.02 of the Standard Specifications and Supplemental Specifications to read:

"1030.02 Materials. Materials shall be according to the following.

Item	Article/Section		
(a)	Coarse Aggregate	1004.03	
(b)	Fine Aggregate	1003.03	
(c)	RAP Material	1031	
(d)	Mineral Filler	1011	
(e)	Hydrated Lime	1012.01	
(f)	Slaked Quicklime	(Note 1)	
(g)	Performance Grac	led Asphalt Binder (Note 2)	1032
(h)	Fibers (Note 3)		
(i)	Warm Mix Asphal ⁻	t (WMA) Technologies (Note 4)	

Note 1. Slaked quicklime shall be according to ASTM C 5.

Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay, except where modified herein. The asphalt binder shall be an Elvaloy or SBS PG 76-22 for IL-4.75, except where modified herein. The elastic recovery shall be a minimum of 80.

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that produces either Type I or Type

2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

Note 4. Warm mix additives or foaming processes shall be selected from the current Bureau of Materials and Physical Research Approved List, "Warm Mix Asphalt Technologies"."

Revise Article 1030.04(a)(1) of the Standard Specifications and the Supplemental Specifications to read:

u

(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

High ESAL, MIXTURE COMPOSITION (% PASSING) ^{1/}										
Sieve	IL-19.0		SMA ^{4/}		SMA ^{4/}		IL-9.5		IL-4.75	
Size	mm		IL-12	2.5 IL-9.5		5	mm		mm	
			mm		mm					
	mi	m	mi	m	mi	m	mi	m	mi	m
	n	ах	n	ах	n	ах	n	ах	n	ах
1 1/2 in										
(37.5										
mm)										
1 in.		10								
(25 mm)		0								
3/4 in.	90	10		10						
(19 mm)	50	0		0						
1/2 in.			80	10		10		10		10
(12.5	75	89		0		0		0		0
mm)										
3/8 in.				65	90	10	90	10		10
(9.5 mm)						0	50	0		0
#4			20	30	36	50			90	10
(4.75	40	60					34	69		0
mm)										
#8			16	24	16	32	34	52	70	90
(2.36	20	42		5/		5/	6/	2/		
mm)										
#16									50	65
(1.18	15	30					10	32		
mm)										
#30			12	16	12	18				
(600 µm)										
#50	6	15					4	15	15	30
(300 µm)	•						-			
#100	4	9					3	10	10	18
(150 µm)	. 									
#200	3	6	7.0	9.0	7.5	9.5	4	6	7	9 ^{3/}
(75 µm)		-		3/		3/		-		

Ratio		1.5	1.5		1.0
Dust/Asp halt	1.0			1.0	
Binder					

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.
- 3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.
- 4/ The maximum percent passing the #635 (20 μ m) sieve shall be \leq 3 percent.
- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.
- 6/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.

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

"(1) High ESAL Mixtures. The target value for the air voids of the HMA shall be 4.0 percent and for IL-4.75 it shall be 3.5 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix, and shall conform to the following requirements.

VOLUMETRIC REQUIREMENTS High ESAL							
	Voids Filled with Asphalt Binder (VFA),						
Ndesign			IL-4.75 ^{1/}	%			
	IL-19.0	IL-9.5					
50			18.5	65 – 78 ^{2/}			
70	13.5	15.0		65 - 75			
90	13.5	13.0		05 - 75			

- 1/ Maximum Draindown for IL-4.75 shall be 0.3 percent
- 2/ VFA for IL-4.75 shall be 72-85 percent"

Replace Article 1030.04(b)(3) of the Standard Specifications with the following:

"(3) SMA Mixtures.

Volumetric Requ SMA ^{1/}	irements			
Ndesign	Design Air Target %	Voids	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
80 4/	3.5		17.0 ^{2/} 16.0 ^{3/}	75 - 83

- 1/ Maximum draindown shall be 0.3 percent. The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30 °F.
- 2/ Applies when specific gravity of coarse aggregate is \geq 2.760.
- 3/ Applies when specific gravity of coarse aggregate is < 2.760.
- 4/ Blending of different types of aggregate will not be permitted.

For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone.

Add to the end of Article 1030.05 (d) (2) a. of the Standard Specifications:

"During production, the Contractor shall test SMA mixtures for draindown according to AASHTO T305 at a frequency of 1 per day of production."

Delete last sentence of the second paragraph of Article 1102.01(a) (4) b. 2.

Add to the end of Article 1102.01 (a) (4) b. 2.:

"As an option, collected dust (baghouse) may be used in lieu of manufactured mineral filler according to the following:

- (a.) Sufficient collected dust (baghouse) is available for production of the SMA mix for the entire project.
- (b.) A mix design was prepared based on collected dust (baghouse).

2) Design Verification and Production

Revise Article 1030.04 (d) of the Standard Specifications to read:

"(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (IL mod

AASHTO T-324) and the Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department's verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

All new and renewal mix designs will be required to be tested, prior to submittal for Department verification and shall meet the following requirements:

(1)Hamburg Wheel Test criteria. The maximum allowable rut depth shall be 0.5 in. (12.5 mm). The minimum number of wheel passes at the 0.5 in. (12.5 mm) rut depth criteria shall be based on the high temperature binder grade of the mix as specified in the mix requirements table of the plans.

Illinois Modified AASHTO T 324 Requirements ^{1/}

Asphalt Binder Grade	# Repetitions	Max Rut Depth (mm)	
PG 70 -XX (or higher)	20,000	12.5	
PG 64 -XX (or lower)	10,000	12.5	

1/ When produced at temperatures of 275 ± 5 °F (135 ± 3 °C) or less, loose Warm Mix Asphalt shall be oven aged at 270 ± 5 °F (132 ± 3 °C) for two hours prior to gyratory compaction of Hamburg Wheel specimens.

Note: For SMA Designs (N-80) the maximum rut depth is 6.0 mm at 20,000 repetitions. For IL 4.75mm Designs (N-50) the maximum rut depth is 9.0mm at 15,000 repetitions.

(2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 60 psi (415 kPa) for non-polymer modified performance graded (PG) asphalt binder and 80 psi (550 kPa) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa)."

<u>Production Testing</u>. Revise first paragraph of Article 1030.06(a) of the Standard Specifications to read:

"(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip, except for SMA mixtures it will be 400 ton (363 metric ton), will be required at the beginning of HMA production for each mixture at the beginning of each construction year according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures". At the request of the Producer, the Engineer may waive the test strip if previous construction during the current construction year has demonstrated the constructability of the mix using Department test results."

Add the following after the sixth paragraph in Article 1030.06 (a) of the Standard Specifications:

"The Hamburg Wheel test shall also be conducted on all HMA mixtures from a sample taken within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall

meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day's production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.

If the mixture fails to meet the Hamburg Wheel criteria, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria"

Method of Measurement:

Add the following after the fourth paragraph of Article 406.13 (b):

"The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design's G_{mb} ."

Basis of Payment.

Replace the fourth paragraph of Article 406.14 of the Standard Specifications with the following:

"Stone matrix asphalt will be paid for at the contract unit price per ton (metric ton) for POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified; and POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified."

IDOT TRAINING PROGRAM GRADUATE ON-THE-JOB TRAINING SPECIAL PROVISION (TPG)

Effective: August 1, 2012

Revised: February 1, 2014

In addition to the Contractor's equal employment opportunity affirmative action efforts undertaken as elsewhere required by this Contract, the Contractor is encouraged to participate in the incentive program to provide additional on-the-job training to certified graduates of IDOT funded preapprenticeship training programs outlined by this Special Provision.

It is the policy of IDOT to fund IDOT pre-apprenticeship training programs throughout Illinois to provide training and skill-improvement opportunities to assure the increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The intent of this IDOT Training Program Graduate (TPG) Special Provision is to place certified graduates of these IDOT funded pre-apprentice training programs on IDOT project sites when feasible, and provide the graduates with meaningful on-the-job training intended to lead to journey-level employment. IDOT and its sub-recipients, in carrying out the responsibilities of a state contract, shall determine which construction contracts shall include "Training Program Graduate Special Provisions." To benefit from the incentives to encourage the participation in the additional on-the-job training under this Training Program Graduate Special Provision, the Contractor shall make every reasonable effort to employ certified graduates of IDOT funded Pre-apprenticeship Training Programs to the extent such persons are available within a reasonable recruitment area.

Participation pursuant to IDOT's requirements by the Contractor or subcontractor in this Training Program Graduate (TPG) Special Provision entitles the Contractor or subcontractor to be reimbursed at \$15.00 per hour for training given a certified TPG on this contract. As approved by the Department, reimbursement will be made for training persons as specified herein. This reimbursement will be made even though the Contractor or subcontractor may receive additional training program funds from other sources for other trainees, provided such other source does not specifically prohibit the Contractor or subcontractor from receiving other reimbursement. For purposes of this Special Provision the Contractor is not relieved of requirements under applicable federal law, the Illinois Prevailing Wage Act, and is not eligible for other training fund reimbursements in addition to the Training Program Graduate (TPG) Special Provision reimbursement.

No payment shall be made to the Contractor if the Contractor or subcontractor fails to provide the required training. It is normally expected that a TPG will begin training on the project as soon as feasible after start of work utilizing the skill involved and remain on the project through completion of the contract, so long as training opportunities exist in his work classification or until he has completed his training program. Should the TPG's employment end in advance of the completion of the contract, the Contractor shall promptly notify the designated IDOT staff member under this Special Provision that the TPG's involvement in the contract has ended and supply a written report of the reason for the end of

the involvement, the hours completed by the TPG under the Contract and the number of hours for which the incentive payment provided under this Special Provision will be or has been claimed for the TPG.

The Contractor will provide for the maintenance of records and furnish periodic reports documenting its performance under this Special Provision.

METHOD OF MEASUREMENT: The unit of measurement is in hours.

BASIS OF PAYMENT: This work will be paid for at the contract unit price of \$15.00 per hour for certified TRAINEES TRAINING PROGRAM GRADUATE. The estimated total number of hours, unit price and total price have been included in the schedule of prices.

The Contractor shall provide training opportunities aimed at developing full journeyworker in the type of trade or job classification involved. The initial number of TPGs for which the incentive is available under this contract is one (1). During the course of performance of the Contract the Contractor may seek approval from the Department for additional incentive eligible TPGs. In the event the Contractor subcontracts a portion of the contract work, it shall determine how many, if any, of the TPGs are to be trained by the subcontractor, provided however, that the Contractor shall retain the primary responsibility for meeting the training requirements imposed by this Special Provision. The Contractor shall also insure that this Training Program Graduate Special Provision is made applicable to such subcontract if the TPGs are to be trained by a subcontractor and that the incentive payment is passed on to each subcontractor.

For the Contractor to meet the obligations for participation in this TPG incentive program under this Special Provision, the Department has contracted with several entities to provide screening, tutoring and pre-training to individuals interested in working in the applicable construction classification and has certified those students who have successfully completed the program and are eligible to be TPGs. A designated IDOT staff member, the Director of the Office of Business and Workforce Diversity (OBWD), will be responsible for providing assistance and referrals to the Contractor for the applicable TPGs. For this contract, the Director of OBWD is designated as the responsible IDOT staff member to provide the assistance and referral services related to the placement for this Special Provision. For purposes of this Contract, contacting the Director of OBWD and interviewing each candidate he/she recommends constitutes reasonable recruitment.

Prior to commencing construction, the Contractor shall submit to the Department for approval the TPGs to be trained in each selected classification. Furthermore, the Contractor shall specify the starting time

for training in each of the classifications. No employee shall be employed as a TPG in any classification in which he/she has successfully completed a training course leading to journeyman status or in which he/she has been employed as a journeyman. Notwithstanding the on-the-job training purpose of this TPG Special Provision, some offsite training is permissible as long as the offsite training is an integral part of the work of the contract and does not comprise a significant part of the overall training.

Training and upgrading of TPGs of IDOT pre-apprentice training programs is intended to move said TPGs toward journeyman status and is the primary objective of this Training Program Graduate Special Provision. Accordingly, the Contractor shall make every effort to enroll TPGs by recruitment through the IDOT funded TPG programs to the extent such persons are available within a reasonable area of recruitment. The Contractor will be responsible for demonstrating the steps that it has taken in pursuance thereof, prior to a determination as to whether the Contractor is in compliance and entitled to the Training Program Graduate Special Provision \$15.00 an hour incentive.

The Contractor or subcontractor shall provide each TPG with a certificate showing the type and length of training satisfactorily completed.

State of Illinois Department of Transportation Bureau of Local Roads and Streets

SPECIAL PROVISION FOR INSURANCE

Effective: February 1, 2007 Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.





Route	Marked Route	Section
Railroad Avenue	FAU 4011	16-00096-00-PK
Project Number	County	Contract Number
WPE6(555)	DuPage	61E55

This plan has been prepared to comply with the provisions of the National Pollutant Discharge Elimination System (NPDES) Permit No. ILR10 (Permit ILR10), issues 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.

Print Name	Title	Agency
Joseph M. Caracci, PE	Director of Public Works	Village of Bensenville
Signature		Date
Joseph my Caracce		01-08-18

I. Site Description

- A. Provide a description of the project location (include latitude and longitude): Village of Bensenville from Addison St to York Rd (41 deg, 57' 22" N and 87 deg, 56'29" W)
- B. Provide a description of the construction activity which is subject of this plan:
 Project consists of HMA pavement reconstruction/resurfacing, storm sewers, sidewalks and related work
- C. Provide the estimated duration of this project: 122 days

D. The total area of the construction site is estimated to be 2 acres.

The total area of the site estimated to be disturbed by excavation, grading or other activities is 2 acres.

E. The following is a weighted average of the runoff coefficient for this project after construction activities are completed:

0.9

- F. List all soils found within project boundaries. Include map unit name, slope information and erosivity: Orthents, clayey, undulating 100%. See attached map.
- G. Provide an aerial extent of wetland acreage at the site: None
- H. Provide a description of potentially erosive areas associated with this project: None
- 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 scopes, etc.):

Excavation, HMA Pavement roadway construction, sidewalk and storm sewer

- 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 off site 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:

Village of Bensenville

- L. The following is a list of General NPDES ILR40 permittees within whose reporting jurisdiction this project is located.
- M. 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. 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.

 None
- O. 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):

a. The name(s) of the listed water body, and identification of all pollutants causing impairment:

- 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 the allocation:

P. The	P. The following pollutants of concern will be associated with this construction project:			
\boxtimes	Soil Sediment		Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids)	
\boxtimes	Concrete		Antifreeze / Coolants	
\boxtimes	Concrete Truck waste	\boxtimes	Waste water from cleaning construction equipment	
	Concrete Curing Compounds		Other (specify)	
	Solid waste Debris		Other (specify)	
	Paints		Other (specify)	
	Solvents		Other (specify)	
	Fertilizers / Pesticides		Other (specify)	
Contro	ls			

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:** At a minimum, controls must be coordinated, installed, and maintained to:

B. **Stabilization 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(B)(1) and II(B)(2), stabilization measures shall be initiated **immediately** where construction activities have temporarily or permanently ceased, but in no case more than **one (1) day** 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.

- 1. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
- 2. On areas where construction activity has temporarily ceased and will resume after fourteen (14) days, a temporary stabilization method can be used.

The following stabilization practices will be used for this project:

/10		D	age 3 of 7			DDE 0040 (Dav. 00/00/4E)
	Permanent Seeding		Other (specify)			
	Temporary Mulching		Other (specify)			
] Temporary Turf (Seeding, Class 7)		Other (specify)			
] Temporary Erosion Control Seeding		Other (specify)			
	Protection of Trees		Geotextiles			
	Vegetated Buffer Strips	\boxtimes	Sodding			
	Preservation of Mature Vegetation		Erosion Control	Blanket / Mulc	hing	

П.

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

Trees will be protected as needed to prevent any damage

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

All disturbed areas will be restored with topsoil and sod

C. **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 stabilization practices will be used for this project:

Perimeter Erosion Barrier	Rock Outlet Protection
Temporary Ditch Check	□ Riprap
Storm Drain Inlet Protection	Gabions
Sediment Trap	Slope Mattress
Temporary Pipe Slope Drain	Retaining Walls
Temporary Sediment Basin	Slope Walls
Temporary Stream Crossing	Concrete Revetment Mats
Stabilized Construction Exits	Level Spreaders
Turf Reinforcement Mats	Other (specify)
Permanent Check Dams	Other (specify)
Permanent Sediment Basin	Other (specify)
Aggregate Ditch	Other (specify)
Paved Ditch	Other (specify)

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

Storm drain inlet protection will be used for drainage structures during construction

Describe how the structural practices listed above will be utilized after construction activities have been completed: Inlet filters will be removed and structures will be cleaned after construction

D. Treatment Chemicals

Will polymer flocculents or treatment chemicals be utilized on this project:
Yes X No

If yes above, identify where and how polymer flocculents or treatment chemicals will be utilized on this project.

- E. **Permanent Storm Water Management Controls:** Provided below is a description of measures that will be installed during the construction process to control volume and 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.
 - 1. 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 & 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.

2. 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 permanent storm water management controls:

Topsoil Furnish and Place, 4" and Sod

F. 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:

- G. **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.
 - 1. 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:

2. 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:

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 Contractor's responsibility to attain maintenance guidelines for any manufactured BMPs which are to be installed and maintained per manufacture's 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 or by the end of the following business or work day that is 0.5 inch or greater or equivalent snowfall.

Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions. Weekly inspections will recommence when construction activities are conducted, or if there is 0.5" or greater rain event, or a discharge due to snowmelt occurs.

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 e-mail at: 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

Additional Inspections Required:

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.





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.G of the Storm Water Pollution Prevention Plan (SWPPP) which will be handled by the Contractors/subcontractor completing this form.

Route	Marked Route	Section
Railroad Ave	FAU 4011	16-00096-00-PK
Project Number	County	Contract Number
WPE6(555)	DuPage	61E55

This certification statement is a part of SWPPP for the project described above, in accordance with the General NPDESPermitNo.ILR10issuedbytheIllinoisEnvironmentalProtectionAgency.

I certify under penalty of law that I understand the terms of the Permit No. ILR10 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 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 the Contractor/subcontractor will be responsible for as required in Section II.G. of SWPPP:



Conservation Service

Web Soil Survey National Cooperative Soil Survey 71 11/13/2017 Page 1 of 3

MAP L	EGEND	MAP INFORMATION
Area of Interest (AOI)	Spoil Area	The soil surveys that comprise your AOI were mapped at
Area of Interest (AOI)	Stony Spot	1:12,000.
Soils	M Very Stony Spot	Warning: Soil Map may not be valid at this scale.
Soil Map Unit Polygons	wet Spot	Enlargement of maps beyond the scale of mapping can cause
Soil Map Unit Lines	∆ Other	misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of
Soil Map Unit Points	Special Line Features	contrasting soils that could have been shown at a more detailed
Special Point Features	Water Features	scale.
Blowout	Streams and Canals	Please rely on the bar scale on each map sheet for map
Borrow Pit	Transportation	measurements.
💥 Clay Spot	+++ Rails	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
Closed Depression	Interstate Highways	Coordinate System: Web Mercator (EPSG:3857)
Gravel Pit	JS Routes	Maps from the Web Soil Survey are based on the Web Mercato
Gravelly Spot	📈 Major Roads	projection, which preserves direction and shape but distorts
🔇 Landfill	Local Roads	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
🙏 Lava Flow	Background	accurate calculations of distance or area are required.
Marsh or swamp	Aerial Photography	This product is generated from the USDA-NRCS certified data a of the version date(s) listed below.
Mine or Quarry		Soil Survey Area: DuPage County, Illinois
Miscellaneous Water		Survey Area Data: Version 13, Sep 20, 2017
Perennial Water		Soil map units are labeled (as space allows) for map scales
Nock Outcrop		1:50,000 or larger.
+ Saline Spot		Date(s) aerial images were photographed: Sep 3, 2014—Sep 22, 2014
Sandy Spot		The orthophoto or other base map on which the soil lines were
Severely Eroded Spot		compiled and digitized probably differs from the background
Sinkhole		imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.
b Slide or Slip		.
Sodic Spot		

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
805B	Orthents, clayey, undulating	8.2	99.5%
854B	Markham-Ashkum-Beecher complex, 1 to 6 percent slopes	0.0	0.5%
Totals for Area of Interest		8.2	100.0%



Application for Right of Entry

	(Attach any pertinent Plar	ns or approval corresponde	ence when returning this Application)
Date:	Company Na			
	(Legal name of p	party to occupy Metra Pro	perty)	
Company Addre	ess:			
Contact Person	/Title:			
Talanhana.		E Maile		
Telephone:		E-Mail:		
Metra District:	Milwaukee West			
	Milwaukee North Rock Island			
	South West Service			
	Electric			
Location:				

(Distance from nearest street or railroad mile post)

Purpose: (This must be detailed & complete; if applicable, attach engineering plans & details to support) Note: Describe only the portion of the project related to this request to enter Metra property

Does work on Metra property include:

Excavation – to what depth:		
Construction		
Demolition: Describe		
Bridge Inspection		
Bridge Repair		
Other (explain)		

(If yes, explain)

L

oes access to property require crossing Metra tracks?	
f yes, how/where) At public crossing	
Other (Explain)	
Vill equipment overhang Metra track or property at any time	?
f yes, explain)	

Expected length of time needed on Metra property:

List all sub-contractors, if applicable, needing access to Metra property in conjunction with this project:

Submit Right of Entry Application to: Mr. Donald Whistler Right of Way Administrator Real Estate & Contract Management 547 W. Jackson Boulevard Chicago, IL 60661-5717 Office: (312) 322-8016 E-Mail:<u>dwhistler@metrarr.com</u>



Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 III. Adm. Code 1100, as

amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 III. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: Downtown Transportation Enhancer	nent Office Phone Number, if available:
Physical Site Location (address, inclduding number	
Metra Station/Village Hall Parking Lot, Center Stree	t and Green Street
City: Bensenville State: IL	Zip Code: 60106
County: DuPage	Township: Addison
Lat/Long of approximate center of site in decimal de	grees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):
Latitude: 41.956469444444 Longitude: -87.94	11222222222
(Decimal Degrees) (-Dec	imal Degrees)
Identify how the lat/long data were determined:	
🔲 GPS 🔄 Map Interpolation 📋 Photo Ir	terpolation 🗌 Survey 🔀 Other
Coordinates obtained from Google Earth.	
IEPA Site Number(s), if assigned: BOL:	BOW: BOA:
II. Owner/Operator Information for Sour	ce Site
Site Owner	Site Operator
Name: Village of Bensenville	Name:
Street Address: 12 S. Center Street	Street Address:
PO Box:	PO Box:
City: Bensenville State:	IL City: State:
Zip Code: 60106 Phone: 630-766-	
Contact:	Contact:
Email, if available:	Email, if available:

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms LPC 663 Rev. 8/2012 Management Center. Latitude: 41.95646944444 Longitude: -87.9411222222222

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Two grab soil samples, identified as B5 1'-5' (Metra Station/Village Hall Parking Lot) and B6 1'-5' (Center Street), were collected during the advancement of soil borings B5 and B6, respectively. Boring B5 was completed at the location of a proposed new sewer line and boring B6 was completed in Center Street that will be resurfaced. See attached Sample Location Map.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 III. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 III. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

The samples were tested by an accredited laboratory for VOCs, SVOCs, RCRA 8 Total Metals and pH. Pursuant to 35 IAC 1100 dated August 27, 2012, the samples have met the objectives of the IEPA MAC Table dated August 27, 2012. 663 certification includes Village Hall Parking Lot at B5, Center Street (B6) and Green Street (reconstructed).

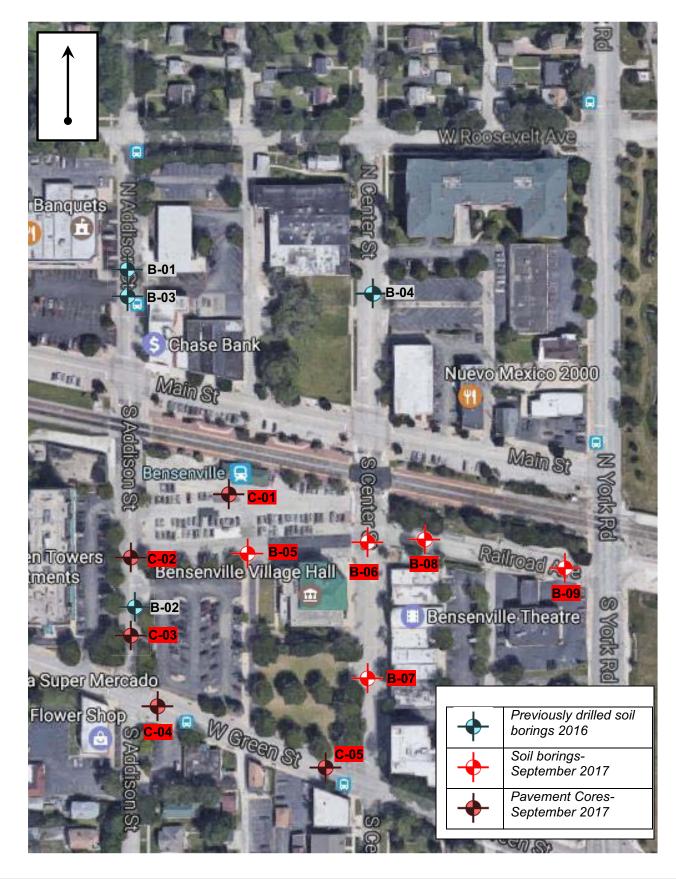
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I. Kenneth K. Rippy, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 III. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: GEOCON Professional Services, LLC						
Street Address:	9370 W. Laraway Road, Suite	D				
City:	Frankfort	State: IL Zip Code: 60423				
Phone:	815-806-9986					
Kenneth K. Ripp	y, P.E.		SETHK PO			
		10/3/17	CONTRESIONAL ENGINEERIA ENGINEERIA			
Licensed Professional E Licensed Professional G		Date:	KINOKS			

P.E. or L.P.G. Seal:





9370 W. Laraway Rd, Suite D Frankfort, IL 60423 P.815.806.9986 F.815.464.8691

FIGURE 1: BORING LOCATION MAP

Downtown Transportation Enhancement and Streetscape Metra Parking Lot, Center Street, W. Green Street and Railroad Avenue, Bensenville, Illinois PROJECT NUMBER: 17-G0679

DATE: October 2017



IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

October 02, 2017

Ms. Erin Curley GEOCON Professional Services, LLC 9370 West Laraway Road Suite D Frankfort, IL 60423

Project ID: Downtown Streets - South End BensenvilleFirst Environmental File ID: 17-5151Date Received: September 25, 2017

Dear Ms. Erin Curley:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004212: effective 08/10/2017 through 02/28/2018.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski Project Manager



IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

GEOCON Professional Services, LLC

Lab File ID: 17-5151

Project ID: Downtown Streets - South End Bensenville

Date Received: September 25, 2017

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time	Collected
17-5151-001	B5 1'-5'	09/22/17	8:00
17-5151-002	B6 1'-5'	09/22/17	8:45

Sample Batch Comments:

Sample acceptance criteria were met.



IL ELAP / NELAC Accreditation # 100292

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Case Narrative

GEOCON Professional Services, LLC

Lab File ID: 17-5151

Date Received: September 25, 2017

Project ID: Downtown Streets - South End Bensenville

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab an	alysis	was performed as soon as possible.
В	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
С	Sample received in an improper container for this test.	Р	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	Ť	Result is less than three times the MDL value.
Н	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.



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First Environmental Laboratories, Inc.

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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

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		Analytical R	Report			
Client:	GEOCON Profession	nal Services, LLC		Date C	ollected:	09/22/17
Project ID:	Downtown Streets -	South End Bensenville		Time C	Collected:	8:00
Sample ID:	B5 1'-5'			Date R	eceived:	09/25/17
Sample No:	17-5151-001			Date R	eported:	10/02/17
-	orted on a dry weight	basis.				
Analyte	forted on a dry worght	045.5.	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B				
Analysis Date:	: 09/26/17					
Total Solids			86.17		%	
Volatile Orga Analysis Date:	nic Compounds	Method: 5035A/82	60B			
Acetone			< 200	200	ug/kg	
Benzene			< 5.0	5.0	ug/kg	
Bromodichlor	omethane		< 5.0	5.0	ug/kg	
Bromoform			< 5.0	5.0	ug/kg	
Bromomethan	e		< 10.0	10.0	'ug/kg	
2-Butanone (N	AEK)	· · · ·	< 100	100	ug/kg	
Carbon disulfi			< 5.0	5.0	ug/kg	
Carbon tetrach	nloride		< 5.0	5.0	ug/kg	
Chlorobenzen	e		< 5.0	5.0	ug/kg	
Chlorodibrom	omethane		< 5.0	5.0	ug/kg	
Chloroethane			< 10.0	10.0	ug/kg	
Chloroform			< 5.0	5.0	ug/kg	
Chloromethan	e		< 10.0	10.0	ug/kg	
1,1-Dichloroe	thane		< 5.0	5.0	ug/kg	
1,2-Dichloroe	thane		< 5.0	5.0	ug/kg	
1,1-Dichloroe	thene		< 5.0	5.0	ug/kg	
cis-1,2-Dichlo			< 5.0	5.0	ug/kg	
trans-1,2-Dich	loroethene		< 5.0	5.0	ug/kg	
1,2-Dichlorop	•		< 5.0	5.0	ug/kg	
cis-1,3-Dichle			< 4.0	4.0	ug/kg	
trans-1,3-Dich	loropropene		< 4.0	4.0	ug/kg	
Ethylbenzene			< 5.0	5.0	ug/kg	
2-Hexanone			< 10.0	10.0	ug/kg	
-	utylether (MTBE)		< 5.0	5.0	ug/kg	
	entanone (MIBK)		< 10.0	10.0	ug/kg	
Methylene ch	loride		< 20.0 < 5.0	20.0 5.0	ug/kg	
Styrene	h la na adh an a		< 5.0 < 5.0	5.0	ug/kg	
1,1,2,2-Tetrac			< 5.0 < 5.0	5.0	ug/kg	
Tetrachloroet	nene		< 5.0 < 5.0	5.0	ug/kg ug/kg	
Toluene	e e the me		< 5.0 < 5.0	5.0	ug/kg ug/kg	
1,1,1-Trichlor			< 5.0	5.0	ug/kg ug/kg	
1,1,2-Trichlon			< 5.0 < 5.0	5.0	ug/kg	
Trichloroethe	ne		< J.U	5.0	ug/ng	



.

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

		Analytical F	Report		13	
Client:	GEOCON Professional Services, LLC		-	Date C	ollected:	09/22/17
Project ID:	Downtown Streets -	Downtown Streets - South End Bensenville B5 1'-5'		Time (8:00	
Sample ID:	B5 1'-5'			Date R	eceived:	09/25/17
Sample No:	17-5151-001			Date R	eported:	10/02/17
-	orted on a dry weight	t basis.				
Analyte	5 17		Result	R.L.	Units	Flags
Volatile Orga Analysis Date:	nic Compounds 09/28/17	Method: 5035A/82	260B			
Vinyl acetate			< 10.0	10.0	ug/kg	
Vinyl chloride	1		< 10.0	10.0	ug/kg	
Xylene, Total			< 5.0	5.0	ug/kg	
Semi-Volatile Analysis Date:		Method: 8270C		Preparation Preparation I	Method 3 Date: 09/25/	540C /17
Acenaphthene			< 330	330	ug/kg	
Acenaphthyle	2 C		< 330	330	ug/kg	
Anthracene			< 330	330	ug/kg	
Benzidine			< 330	330	ug/kg	
Benzo(a)anthr	acene		< 330	330	ug/kg	
Benzo(a)pyrer	ne		< 90	90	ug/kg	
Benzo(b)fluor	anthene		< 330	330	ug/kg	
Benzo(k)fluor	anthene		< 330	330	ug/kg	
Benzo(ghi)per	ylene		< 330	330	ug/kg	
Benzoic acid			< 330	330	ug/kg	
Benzyl alcoho	1	a).	< 330	330	ug/kg	
bis(2-Chloroet	thoxy)methane		< 330	330	ug/kg	
bis(2-Chloroet	• •		< 330	330	ug/kg	
bis(2-Chlorois			< 330	330	ug/kg	
bis(2-Ethylher			< 330	330	ug/kg	
	yl phenyl ether		< 330	330	ug/kg	
Butyl benzyl p	ohthalate		< 330	330	ug/kg	
Carbazole			< 330	330	ug/kg	
4-Chloroanilin			< 330	330	ug/kg	
4-Chloro-3-m			< 330	330	ug/kg	
2-Chloronaph			< 330	330	ug/kg	
2-Chlorophen			< 330	330	ug/kg	
	yl phenyl ether		< 330 < 330	330 330	ug/kg ug/kg	
Chrysene Dibarra (a b)a	wthreesens		< 330 < 90	90	ug/kg ug/kg	
Dibenzo(a,h)a			< 330	330	ug/kg	
Dibenzofuran			< 330	330	ug/kg	
1,2-Dichlorob 1,3-Dichlorob			< 330	330	ug/kg	
1,3-Dichlorob			< 330	330	ug/kg	
3,3'-Dichlorot			< 660	660	ug/kg	
2,4-Dichlorop			< 330	330	ug/kg	
2, 4 -Dicitiorop			220			Page 5 of 11



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Client:	GEOCON Professional Services, LLC	Date Collected:	09/22/17
Project ID:	Downtown Streets - South End Bensenville	Time Collected:	8:00
Sample ID:	B5 1'-5'	Date Received:	09/25/17
Sample No:	17-5151-001	Date Reported:	10/02/17
Results are rep	oorted on a dry weight basis.		

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds Analysis Date: 09/26/17	Method: 8270C		Preparation Method 3540C Preparation Date: 09/25/17		
Diethyl phthalate		< 330	330	ug/kg	
2,4-Dimethylphenol		< 330	330	ug/kg	
Dimethyl phthalate		< 330	330	ug/kg	
Di-n-butyl phthalate		< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol		< 1,600	1600	ug/kg	
2,4-Dinitrophenol		< 1,600	1600	ug/kg	
2,4-Dinitrotoluene		< 250	250	ug/kg	
2,6-Dinitrotoluene		< 260	260	ug/kg	
Di-n-octylphthalate		< 330	330	ug/kg	
Fluoranthene		< 330	330	ug/kg	
Fluorene		< 330	330	ug/kg	
Hexachlorobenzene		< 330	330	ug/kg	
Hexachlorobutadiene		< 330	330	ug/kg	
Hexachlorocyclopentadiene		< 330	330	ug/kg	
Hexachloroethane		< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene		< 330	330	ug/kg	
Isophorone		< 330	330	ug/kg	
2-Methylnaphthalene		< 330	330	ug/kg	
2-Methylphenol		< 330	330	ug/kg	
3 & 4-Methylphenol		< 330	330	ug/kg	
Naphthalene		< 330	330	ug/kg	
2-Nitroaniline		< 1,600	1600	ug/kg	
3-Nitroaniline		< 1,600	1600	ug/kg	
4-Nitroaniline		< 1,600	1600	ug/kg	
Nitrobenzene		< 260	260	ug/kg	
2-Nitrophenol		< 1,600	1600	ug/kg	
4-Nitrophenol		< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine		< 90	90	ug/kg	
n-Nitrosodimethylamine		< 330	330	ug/kg	
n-Nitrosodiphenylamine		< 330	330	ug/kg	
Pentachlorophenol		< 330	330	ug/kg	
Phenanthrene		< 330	330	ug/kg	
Phenol		< 330	330	ug/kg	
Pyrene		< 330	330	ug/kg	
Pyridine		< 330	330	ug/kg	
1,2,4-Trichlorobenzene		< 330	330	ug/kg	



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Client:	GEOCON Professional Services, LLC	Date Collected:	09/22/17		
Project ID:	Downtown Streets - South End Bensenville	Time Collected:	8:00		
Sample ID:	B5 1'-5'	Date Received:	09/25/17		
Sample No:	17-5151-001	Date Reported:	10/02/17		
Results are reported on a dry weight basis.					

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds Analysis Date: 09/26/17	Method: 8270C	Preparation Method 3540C Preparation Date: 09/25/17			
2,4,5-Trichlorophenol		< 330	330	ug/kg	
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Total Metals Analysis Date: 09/26/17	Method: 6010C	Preparation Method 3050B Preparation Date: 09/26/17			
Arsenic		5.6	1.0	mg/kg	
Barium		36.0	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		14.1	0.5	mg/kg	
Lead		10.2	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		0.3	0.2	mg/kg	
Total Mercury Analysis Date: 09/26/17	Method: 7471B				
Mcrcury		< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 09/26/17 11:15	Method: 9045D 2	004			
pH @ 25°C, 1:2		8.06		Units	



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Client: Project ID: Sample ID:	GEOCON Profession Downtown Streets - B6 1'-5'	nal Services, LLC South End Bensenville			Time C	ollected: Collected: eceived:	09/22/17 8:45 09/25/17
Sample No:	17-5151-002				Date R	eported:	10/02/17
-	orted on a dry weight	basis.					
Analyte				Result	R.L.	Units	Flags
Solids, Total Analysis Date:	09/26/17	Method: 2540B					
Total Solids				87.62		%	
Volatile Organ Analysis Date:	nic Compounds 09/28/17	Method: 5035A/82	60B				
Acetone			<	200	200	ug/kg	
Benzene			<	5.0	5.0	ug/kg	
Bromodichloro	methane		<	5.0	5.0	ug/kg	
Bromoform			<	5.0	5.0	ug/kg	
Bromomethane	;		<	10.0	10.0	ug/kg	
2-Butanone (M	IEK)		<	100	100	ug/kg	
Carbon disulfic	le		<	5.0	5.0	ug/kg	
Carbon tetrach	loride		<	5.0	5.0	ug/kg	
Chlorobenzene	;		<	5.0	5.0	ug/kg	
Chlorodibromo	omethane		<	5.0	5.0	ug/kg	
Chloroethane			<	10.0	10.0	ug/kg	
Chloroform			<	5.0	5.0	ug/kg	
Chloromethane	e		<	10.0	10.0	ug/kg	
1,1-Dichloroet	hane		<	5.0	5.0	ug/kg	
1,2-Dichloroet	hane		<	5.0	5.0	ug/kg	
1,1-Dichloroet	hene		<	5.0	5.0	ug/kg	
cis-1,2-Dichlor	roethene		<	5.0	5.0	ug/kg	
trans-1,2-Dichl	loroethene			5.0	5.0	ug/kg	
1,2-Dichloropr	opane			5.0	5.0	ug/kg	
cis-1,3-Dichlor	ropropene		<	4.0	4.0	ug/kg	
trans-1,3-Dich	loropropene		<	4.0	4.0	ug/kg	
Ethylbenzene				5.0	5.0	ug/kg	
2-Hexanone				10.0	10.0	ug/kg	
Methyl-tert-bu	tylether (MTBE)			5.0	5.0	ug/kg	
4-Methyl-2-per	ntanone (MIBK)			10.0	10.0	ug/kg	
Methylene chl	oride			20.0	20.0	ug/kg	
Styrene				5.0	5.0	ug/kg	
1,1,2,2-Tetrach	nloroethane			5.0	5.0	ug/kg	
Tetrachloroeth	ene			5.0	5.0	ug/kg	
Toluene				5.0	5.0	ug/kg	
1,1,1-Trichloro				5.0	5.0	ug/kg	
1,1,2-Trichlor				5.0	5.0	ug/kg	
Trichloroethen	ie		<	5.0	5.0	ug/kg	



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		Analytical F	Report			
Client:	GEOCON Profession	nal Services, LLC	-	Date C	ollected:	09/22/17
Project ID:		Downtown Streets - South End Bensenville			Collected:	8:45
Sample ID:	B6 1'-5'			Date R	eceived:	09/25/17
Sample No:	17-5151-002			Date R	eported:	10/02/17
-	orted on a dry weight	basis			-F	
Analyte			Result	R.L.	Units	Flags
Volatile Orga Analysis Date:	nic Compounds 09/28/17	Method: 5035A/82	260B			
Vinyl acetate			< 10.0	10.0	ug/kg	
Vinyl chloride			< 10.0	10.0	ug/kg	
Xylene, Total			< 5.0	5.0	ug/kg	
Semi-Volatile Analysis Date:		Method: 8270C		Preparation Preparation D		
Acenaphthene			< 330	330	ug/kg	
Accnaphthyle	ne		< 330	330	ug/kg	
Anthracene			< 330	330	ug/kg	
Benzidine			< 330	330	ug/kg	
Benzo(a)anthr	acene		< 330	330	ug/kg	
Benzo(a)pyrer			< 90	90	ug/kg	
Benzo(b)fluor			< 330	330	ug/kg	
Benzo(k)fluor			< 330	330	ug/kg	
Benzo(ghi)per	ylene		< 330	330	ug/kg	
Benzoic acid			< 330	330	ug/kg	
Benzyl alcoho			< 330	330	ug/kg	
•	thoxy)methane		< 330	330	ug/kg	
bis(2-Chloroet	• •		< 330	330 330	ug/kg	
bis(2-Chlorois			< 330 < 330	330	ug/kg ug/kg	
bis(2-Ethylhe)	• • • •		< 330	330	ug/kg	
	yl phenyl ether		< 330	330	ug/kg	
Butyl benzyl p Carbazole	onthalate		< 330	330	ug/kg	
4-Chloroanilir	20		< 330	330	ug/kg	
4-Chloro-3-me			< 330	330	ug/kg	
2-Chloronaph			< 330	330	ug/kg	
2-Chlorophene			< 330	330	ug/kg	
•	yl phenyl ether		< 330	330	ug/kg	
Chrysene	yr phony'r othor		< 330	330	ug/kg	
Dibenzo(a,h)a	nthracene		< 90	90	ug/kg	
Dibenzofuran			< 330	330	ug/kg	
1,2-Dichlorob	enzene		< 330	330	ug/kg	
1,3-Dichlorob			< 330	330	ug/kg	
1,4-Dichlorob			< 330	330	ug/kg	
3,3'-Dichlorot	oenzidine		< 660	660	ug/kg	
2,4-Dichlorop	henol		< 330	330	ug/kg	



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Client:	GEOCON Professional Services, LLC	Date Collected:	09/22/17		
Project ID:	Downtown Streets - South End Bensenville	Time Collected:	8:45		
Sample ID:	B6 1'-5'	Date Received:	09/25/17		
Sample No:	17-5151-002	Date Reported:	10/02/17		
Results are reported on a dry weight basis.					

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds Analysis Date: 09/26/17	Method: 8270C		0 C		
Diethyl phthalate		< 330	330	ug/kg	
2,4-Dimethylphenol		< 330	330	ug/kg	
Dimethyl phthalate		< 330	330	ug/kg	
Di-n-butyl phthalate		< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol		< 1,600	1600	ug/kg	
2,4-Dinitrophenol		< 1,600	1600	ug/kg	
2,4-Dinitrotoluene		< 250	250	ug/kg	
2,6-Dinitrotoluene		< 260	260	ug/kg	
Di-n-octylphthalate		< 330	330	ug/kg	
Fluoranthene		< 330	330	ug/kg	
Fluorene		< 330	330	ug/kg	
Hexachlorobenzene		< 330	330	ug/kg	
Hexachlorobutadiene		< 330	330	ug/kg	
Hexachlorocyclopentadiene		< 330	330	ug/kg	
Hexachloroethane		< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene		< 330	330	ug/kg	
Isophorone		< 330	330	ug/kg	
2-Methylnaphthalene		< 330	330	ug/kg	
2-Methylphenol		< 330	330	ug/kg	
3 & 4-Methylphenol		< 330	330	ug/kg	
Naphthalene		< 330	330	ug/kg	
2-Nitroaniline		< 1,600	1600	ug/kg	
3-Nitroaniline		< 1,600	1600	ug/kg	
4-Nitroaniline		< 1,600	1600	ug/kg	
Nitrobenzene	8	< 260	260	ug/kg	
2-Nitrophenol		< 1,600	1600	ug/kg	
4-Nitrophenol		< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine		< 90	90	ug/kg	
n-Nitrosodimethylamine		< 330	330	ug/kg	
n-Nitrosodiphenylamine		< 330	330	ug/kg	
Pentachlorophenol		< 330	330	ug/kg	
Phenanthrene		< 330	330	ug/kg	
Phenol		< 330	330	ug/kg	
Pyrene		< 330	330	ug/kg	
Pyridine		< 330	330	ug/kg	
1,2,4-Trichlorobenzene		< 330	330	ug/kg	



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Client:	GEOCON Professional Services, LLC	Date Collected:	09/22/17		
Project ID:	Downtown Streets - South End Bensenville	Time Collected:	8:45		
Sample ID:	B6 1'-5'	Date Received:	09/25/17		
Sample No:	17-5151-002	Date Reported:	10/02/17		
Results are reported on a dry weight basis.					

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds Analysis Date: 09/26/17	Method: 8270C		Preparation Preparation I		
2,4,5-Trichlorophenol		< 330	330	ug/kg	
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Total Metals Analysis Date: 09/26/17	Method: 6010C		Preparation Preparation 1	Method 30 Date: 09/26/1	
Arsenic		6.7	1.0	mg/kg	
Barium		12.8	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		5.4	0.5	mg/kg	
Lead		12.0	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		0.2	0.2	mg/kg	
Total Mercury Analysis Date: 09/26/17	Method: 7471B				
Mercury		0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 09/26/17 11:15	Method: 9045D 2	004			
pH @ 25°C, 1:2		8.31		Units	



CHAIN	OF	CUSTODY	RECORD

Page____ of ____ pgs

	imental tories, Inc.		Соп	ipany N	ame: 6	EO	CON	P.	of	ssic	inal	Serv	iles	LLC	
First Environmental	Laboratories			Street Address: 9370 W. Laraway Road, Suite D											
1600 Shore Road, Suite D				city: Frankfort State: FL Zip: 60423											
Naperville, Illinois 60563							1. e	-mail:	Con	led	200	00 010	(6.00 0	anies, c	CO 100
Phone: (630) 778-1200 • Fa E-mail: firstinfo@firstenv.			Send	d Report	t To: 12	rin	Curr	1	ccu	ic y	Je	DEDRI	TOMP	2413,0	DIN
IEPA Certification #100292						in (_					
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Project I.D.: <u>Down</u> P.O. #: <u>17-G06</u>	own Streets - Sour	<u>th</u> End, Bensenu	ille,D		10	Rex C	- All	1				ALL CONTRACTOR	Sta .		
Matrix Codes: S - So	il $W = Water O = Other$		/	\rightarrow	5/5	9	Y	/	/	/	Ho.				4
Date/Time Taken	Sample Description	Matri	x	1	((r	(((((Com	ments	L	ab I.D.
9/22/17 8:00 AM	B5 1'-5'	5	X		1	X				1					151-001
9/22/17 8:45Am	B6 1'-5'	S	X	X	\mathbf{Z}	\leq									POUL
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FOR LAB USE ONLY:												*****			
Cooler Temperature: 0.1-6° Received within 6 hrs. of co Ice Present: Yes No Notes and Special Instru		Sample Refr Refrigerator 5035 Vials F Freezer Tem	Tempera rozen:	ature: res N	4ºC lo		ogram:	П Т	ACO/SF	RP 😡	{CCDD	NPD	ES 🗌LI	JST []SD	WA
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Relinquished By: 6/4	E. Curley	Date/Time	25/17	19!	30 Rec	ceived B	v. 1/	In	TIV	mal	W	Date/	Time 9	1281	1 9:30
Relinquished By:		Date/Time	-1-1		Rec	ceived B	y					Date/	200 C 1		
Rev. 5/17						90							-		
						50									

ADJUSTING FRAMES AND GRATES (BDE)

Effective: April 1, 2017

Add the following to Article 602.02 of the Standard Specifications:

"(s) High Density Expanded Polystyrene Adjusting Rings	
with Polyurea Coating (Note 4)	. 1043.04
(t) Example of Dehamment dame (EDD) Additional Distance (Nate E)	101005

(t) Expanded Polypropylene (EPP) Adjusting Rings (Note 5) 1043.05

Note 4. High density expanded polystyrene adjusting rings with polyurea coating shall meet the design load requirements of AASHTO HS20/25. The rings may be used to adjust the frames and grates of drainage and utility structures up to a maximum of 6 in. (150 mm). They shall be installed and sealed underneath the frames according to the manufacturer's specifications.

Note 5. Riser rings fabricated from EPP may be used to adjust the frames and grates of drainage and utility structures up to a maximum of 6 in. (150 mm). An adhesive meeting ASTM C 920, Type S, Grade N5, Class 25 shall be used with EPP adjustment rings. The top ring of the adjustment stack shall be a finish ring with grooves on the lower surface and flat upper surface. The joints between all manhole adjustment rings and the frame and cover shall be sealed using the approved adhesive. In lieu of the use of an adhesive, an internal or external mechanical frame-chimney seal may be used for watertight installation. EPP adjustment rings shall not be used with heat shrinkable infiltration barriers."

Add the following to Section 1043 of the Standard Specifications:

"1043.04 High Density Expanded Polystyrene Adjusting Rings with Polyurea Coating. High density expanded polystyrene adjustment rings with polyurea coating shall be designed and tested to meet or exceed an HS25 wheel load according to the AASHTO Standard Specifications for Highway Bridges (AASHTO M306 HS-25). The raw material suppliers shall provide certifications of quality or testing using the following ASTM standards, and upon request, certify that only virgin material was used in the manufacturing of the expanded polystyrene rings.

Dhysical Property	Test Standard	Value			
Physical Property	Test Standard	3.0 lb/cu ft	4.5 lb/cu ft		
Compression Resistance	ASTM D 1621				
at 10% deformation		50 - 70	70 - 90		
at 5% deformation		45 - 60	60 - 80		
at 2% deformation		15 - 20	20 - 40		
Flexural Strength	ASTM D 790	90 - 120	130 - 200		
Water Absorption	ASTM D 570	2.0%	1.7%		
Coefficient of Linear Expansion	ASTM D 696	2.70E-06 in./in./ºF	2.80E-06 in./in./ºF		
Sheer Strength	ASTM D 732	55	80		

Tensile Strength	ASTM D 1623	70 - 90	130 - 140
Water Vapor Transmission	ASTM C 355	0.82 – 0.86	6 perm – in.

High density expanded polystyrene adjustment rings with polyurea coating shall have no void areas, cracks, or tears. The actual diameter or length shall not vary more than 0.125 in. (3 mm) from the specified diameter or length. Variations in height are limited to \pm 0.063 in. (\pm 1.6 mm). Variations shall not exceed 0.25 in. (6 mm) from flat (dish, bow, or convoluting edge) or 0.125 in. (3 mm) for bulges or dips in the surface.

1043.05 Expanded Polypropylene (EPP) Adjusting Rings. The EPP adjusting rings shall be manufactured using a high compression molding process to produce a minimum finished density of 7.5 lb/cu ft (120 g/l). The EPP rings shall be made of materials meeting ASTM D 3575 and ASTM D 4819-13. The grade adjustments shall be designed and tested according to the AASHTO Standard Specifications for Highway Bridges (AASHTO M 306 HS-25).

Grade rings shall contain upper and lower keyways (tongue and groove) for proper vertical alignment and sealing. The top ring, for use directly beneath the cast iron frame, shall have keyways (grooves) on the lower surface with a flat upper surface.

Adhesive or sealant used for watertight installation of the manhole grade adjustment rings shall meet ASTM C 920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A, and O.

EPP adjustment rings shall have no void areas, cracks, or tears. The actual diameter or length shall not vary more than 0.125 in. (3 mm) from the specified diameter or length. Variations in height are limited to \pm 0.063 in. (\pm 1.6 mm). Variations shall not exceed 0.25 in. (6 mm) from flat (dish, bow, or convoluting edge) or 0.125 in. (3 mm) for bulges or dips in the surface."

80382

BUTT JOINTS (BDE)

Effective: July 1, 2016

Add the following to Article 406.08 of the Standard Specifications.

"(c) Temporary Plastic Ramps. Temporary plastic ramps shall be made of high density polyethylene meeting the properties listed below. Temporary plastic ramps shall only be used on roadways with permanent posted speeds of 55 mph or less. The ramps shall have a minimum taper rate of 1:30 (V:H). The leading edge of the plastic ramp shall have a maximum thickness of 1/4 in. (6 mm) and the trailing edge shall match the height of the adjacent pavement ± 1/4 in. (± 6 mm).

The ramp will be accepted by certification. The Contractor shall furnish a certification from the manufacturer stating the temporary plastic ramp meets the following requirements.

Physical Property	Test Method	Requirement
Melt Index	ASTM D 1238	8.2 g/10 minutes
Density	ASTM D 1505	0.965 g/cc
Tensile Strength @ Break	ASTM D 638	2223 psi (15 MPa)
Tensile Strength @ Yield	ASTM D 638	4110 psi (28 MPa)
Elongation @ Yield ^{1/} , percent	ASTM D 638	7.3 min.
Durometer Hardness, Shore D	ASTM D 2240	65
Heat Deflection Temperature, 66 psi	ASTM D 648	176 °F (80 °C)
Low Temperature Brittleness, F ₅₀	ASTM D 746	<-105 °F (<-76 °C)

1/ Crosshead speed -2 in./minute

The temporary plastic ramps shall be installed according to the manufacturer's specifications and fastened with anchors meeting the manufacturer's recommendations. Temporary plastic ramps that fail to stay in place or create a traffic hazard shall be replaced immediately with temporary HMA ramps at the Contractor's expense."

80366

COMPENSABLE DELAY COSTS (BDE)

Effective: June 2, 2017

Revise Article 107.40(b) of the Standard Specifications to read:

- "(b) Compensation. Compensation will not be allowed for delays, inconveniences, or damages sustained by the Contractor from conflicts with facilities not meeting the above definition; or if a conflict with a utility in an unanticipated location does not cause a shutdown of the work or a documentable reduction in the rate of progress exceeding the limits set herein. The provisions of Article 104.03 notwithstanding, compensation for delays caused by a utility in an unanticipated location will be paid according to the provisions of this Article governing minor and major delays or reduced rate of production which are defined as follows.
 - (1) Minor Delay. A minor delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two hours, but not to exceed two weeks.
 - (2) Major Delay. A major delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two weeks.
 - (3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the rate of production on the work in conflict with the utility in an unanticipated location decreases by more than 25 percent and lasts longer than seven calendar days."

Revise Article 107.40(c) of the Standard Specifications to read:

- "(c) Payment. Payment for Minor, Major, and Reduced Rate of Production Delays will be made as follows.
 - (1) Minor Delay. Labor idled which cannot be used on other work will be paid for according to Article 109.04(b)(1) and (2) for the time between start of the delay and the minimum remaining hours in the work shift required by the prevailing practice in the area.

Equipment idled which cannot be used on other work, and which is authorized to standby on the project site by the Engineer, will be paid for according to Article 109.04(b)(4).

(2) Major Delay. Labor will be the same as for a minor delay.

Equipment will be the same as for a minor delay, except Contractor-owned equipment will be limited to two weeks plus the cost of move-out to either the Contractor's yard or another job and the cost to re-mobilize, whichever is less.

Rental equipment may be paid for longer than two weeks provided the Contractor presents adequate support to the Department (including lease agreement) to show retaining equipment on the job is the most economical course to follow and in the public interest.

(3) Reduced Rate of Production Delay. The Contractor will be compensated for the reduced productivity for labor and equipment time in excess of the 25 percent threshold for that portion of the delay in excess of seven calendar days. Determination of compensation will be in accordance with Article 104.02, except labor and material additives will not be permitted.

Payment for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be determined according to Article 109.13."

Revise Article 108.04(b) of the Standard Specifications to read:

- "(b) No working day will be charged under the following conditions.
 - (1) When adverse weather prevents work on the controlling item.
 - (2) When job conditions due to recent weather prevent work on the controlling item.
 - (3) When conduct or lack of conduct by the Department or its consultants, representatives, officers, agents, or employees; delay by the Department in making the site available; or delay in furnishing any items required to be furnished to the Contractor by the Department prevents work on the controlling item.
 - (4) When delays caused by utility or railroad adjustments prevent work on the controlling item.
 - (5) When strikes, lock-outs, extraordinary delays in transportation, or inability to procure critical materials prevent work on the controlling item, as long as these delays are not due to any fault of the Contractor.
 - (6) When any condition over which the Contractor has no control prevents work on the controlling item."

Revise Article 109.09(f) of the Standard Specifications to read:

"(f) Basis of Payment. After resolution of a claim in favor of the Contractor, any adjustment in time required for the work will be made according to Section 108. Any adjustment in the costs to be paid will be made for direct labor, direct materials, direct equipment, direct jobsite overhead, direct offsite overhead, and other direct costs allowed by the resolution. Adjustments in costs will not be made for interest charges, loss of anticipated profit, undocumented loss of efficiency, home office overhead and unabsorbed overhead other than as allowed by Article 109.13, lost opportunity, preparation of claim expenses and other consequential indirect costs regardless of method of calculation.

The above Basis of Payment is an essential element of the contract and the claim cost recovery of the Contractor shall be so limited."

Add the following to Section 109 of the Standard Specifications.

"**109.13 Payment for Contract Delay.** Compensation for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be allowed when such costs result from a delay meeting the criteria in the following table.

Contract Type	Cause of Delay	Length of Delay
Working Days	Article 108.04(b)(3) or Article 108.04(b)(4)	No working days have been charged for two consecutive weeks.
Completion Date	Article 108.08(b)(1) or Article 108.08(b)(7)	The Contractor has been granted a minimum two week extension of contract time, according to Article 108.08.

Payment for each of the various costs will be according to the following.

- (a) Escalated Material and/or Labor Costs. When the delay causes work, which would have otherwise been completed, to be done after material and/or labor costs have increased, such increases will be paid. Payment for escalated material costs will be limited to the increased costs substantiated by documentation furnished by the Contractor. Payment for escalated labor costs will be limited to those items in Article 109.04(b)(1) and (2), except the 35 percent and 10 percent additives will not be permitted.
- (b) Extended Project Overhead. For the duration of the delay, payment for extended project overhead will be paid as follows.
 - (1) Direct Jobsite and Offsite Overhead. Payment for documented direct jobsite overhead and documented direct offsite overhead, including onsite supervisory and administrative personnel, will be allowed according to the following table.

Original Contract Amount	Supervisory and Administrative Personnel
Up to \$5,000,000	One Project Superintendent
Over \$ 5,000,000 - up to \$25,000,000	One Project Manager, One Project Superintendent or Engineer, and One Clerk
Over \$25,000,000 - up to \$50,000,000	One Project Manager, One Project Superintendent, One Engineer, and

	One Clerk
Over \$50,000,000	One Project Manager,
	Two Project Superintendents,
	One Engineer, and
	One Clerk

- (2) Home Office and Unabsorbed Overhead. Payment for home office and unabsorbed overhead will be calculated as 8 percent of the total delay cost.
- (c) Extended Traffic Control. Traffic control required for an extended period of time due to the delay will be paid. For working day contracts the payment will be made according to Article 109.04. For completion date contracts, an adjustment will be determined as follows.

Extended Traffic Control occurs between April 1 and November 30:

ETCP Adjustment () = TE x ($%/100 \times CUP / OCT$)

Extended Traffic Control occurs between December 1 and March 31:

ETCP Adjustment (\$) = TE x 1.5 (%/100 x CUP / OCT)

Where: TE = Duration of approved time extension in calendar days.

% = Percent maintenance for the traffic control, % (see table below).

CUP = Contract unit price for the traffic control pay item in place during the delay.

OCT = Original contract time in calendar days.

Original Contract Amount	Percent Maintenance	
Up to \$2,000,000	65%	
\$2,000,000 to \$10,000,000	75%	
\$10,000,000 to \$20,000,000	85%	
Over \$20,000,000	90%	

When an ETCP adjustment is paid under this provision, an adjusted unit price as provided for in Article 701.20(a) for increase or decrease in the value of work by more than ten percent will not be paid.

Upon payment for a contract delay under this provision, the Contractor shall assign subrogation rights to the Department for the Department's efforts of recovery from any other party for monies paid by the Department as a result of any claim under this provision. The Contractor shall fully cooperate with the Department in its efforts to recover from another party any money paid to the Contractor for delay damages under this provision."

80384

CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010

Revised: November 1, 2014

The reduction of emissions of particulate matter (PM) for off-road equipment shall be accomplished by installing retrofit emission control devices. The term "equipment" refers to diesel fuel powered devices rated at 50 hp and above, to be used on the jobsite in excess of seven calendar days over the course of the construction period on the jobsite (including rental equipment).

Contractor and subcontractor diesel powered off-road equipment assigned to the contract shall be retrofitted using the phased in approach shown below. Equipment that is of a model year older than the year given for that equipment's respective horsepower range shall be retrofitted:

Effective Dates	Horsepower Range	Model Year
June 1, 2010 ^{1/}	600-749	2002
	750 and up	2006
June 1, 2011 ^{2/}	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006
June 1, 2012 ^{2/}	50-99	2004
	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006

1/ Effective dates apply to Contractor diesel powered off-road equipment assigned to the contract.

2/ Effective dates apply to Contractor and subcontractor diesel powered off-road equipment assigned to the contract.

The retrofit emission control devices shall achieve a minimum PM emission reduction of 50 percent and shall be:

- a) Included on the U.S. Environmental Protection Agency (USEPA) *Verified Retrofit Technology List* (<u>http://www.epa.gov/cleandiesel/verification/verif-list.htm</u>), or verified by the California Air Resources Board (CARB) (<u>http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm</u>); or
- b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the project, and if the Contractor has obtained a performance certification from the retrofit

device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

Note: Large cranes (Crawler mounted cranes) which are responsible for critical lift operations are exempt from installing retrofit emission control devices if such devices adversely affect equipment operation.

Diesel powered off-road equipment with engine ratings of 50 hp and above, which are unable to be retrofitted with verified emission control devices or if performance certifications are not available which will achieve a minimum 50 percent PM reduction, may be granted a waiver by the Department if documentation is provided showing good faith efforts were made by the Contractor to retrofit the equipment.

Construction shall not proceed until the Contractor submits a certified list of the diesel powered off-road equipment that will be used, and as necessary, retrofitted with emission control devices. The list(s) shall include (1) the equipment number, type, make, Contractor/rental company name; and (2) the emission control devices make, model, USEPA or CARB verification number, or performance certification from the retrofit device manufacturer. Equipment reported as fitted with emissions control devices shall be made available to the Engineer for visual inspection of the device installation, prior to being used on the jobsite.

The Contractor shall submit an updated list of retrofitted off-road construction equipment as retrofitted equipment changes or comes on to the jobsite. The addition or deletion of any diesel powered equipment shall be included on the updated list.

If any diesel powered off-road equipment is found to be in non-compliance with any portion of this special provision, the Engineer will issue the Contractor a diesel retrofit deficiency deduction.

Any costs associated with retrofitting any diesel powered off-road equipment with emission control devices 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 not be grounds for a claim.

Diesel Retrofit Deficiency Deduction

When the Engineer determines that a diesel retrofit deficiency exists, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

The deficiency will be based on lack of diesel retrofit emissions control.

If a Contractor accumulates three diesel retrofit deficiency deductions for the same piece of equipment in a contract period, the Contractor will be shutdown until the deficiency is corrected.

Such a shutdown will not be grounds for any extension of the contract time, waiver of penalties, or be grounds for any claim.

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000 Revised: April 2, 2018

<u>FEDERAL OBLIGATION</u>. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR Part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR Part 26 and listed in the Illinois Unified Certification Program (IL UCP) DBE Directory.

<u>STATE OBLIGATION</u>. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. When this Special Provision is used to satisfy state law requirements on 100 percent state-funded contracts, the federal government has no involvement in such contracts (not a federal-aid contract) and no responsibility to oversee the implementation of this Special Provision by the Department on those contracts. DBE participation on 100 percent state-funded contracts will not be credited toward fulfilling the Department's annual overall DBE goal required by the US Department of Transportation to comply with the federal DBE program requirements.

<u>CONTRACTOR ASSURANCE</u>. The Contractor makes the following assurance and agrees to include the assurance in each subcontract that the Contractor signs with a subcontractor.

The Contractor, subrecipient, or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of contracts funded in whole or in part with federal or state funds. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (a) Withholding progress payments;
- (b) Assessing sanctions;
- (c) Liquidated damages; and/or
- (d) Disqualifying the Contractor from future bidding as non-responsible.

<u>OVERALL GOAL SET FOR THE DEPARTMENT</u>. As a requirement of compliance with 49 CFR Part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a

good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE companies performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

<u>CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR</u>. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. The determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform <u>19.00</u>% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set for in this Special Provision:

- (a) The bidder documents that enough DBE participation has been obtained to meet the goal or,
- (b) The bidder documents that a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

<u>DBE LOCATOR REFERENCES</u>. Bidders shall consult the IL UCP DBE Directory as a reference source for DBE-certified companies. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217) 785-4611, or by visiting the Department's website at:

http://www.idot.illinois.gov/doing-business/certifications/disadvantaged-business-enterprisecertification/il-ucp-directory/index.

<u>BIDDING PROCEDURES</u>. Compliance with this Special Provision is required prior to the award of the contract and the failure of the low bidder to comply will render the bid not responsive.

In order to assure the timely award of the contract, the low bidder shall submit:

- (a) The bidder shall submit a DBE Utilization Plan on completed Department forms SBE 2025 and 2026.
 - (1) The final Utilization Plan must be submitted within five calendar days after the date of the letting in accordance with subsection (a)(2) of Bidding Procedures herein.

(2) To meet the five day requirement, the bidder may send the Utilization Plan electronically by scanning and sending to <u>DOT.DBE.UP@illinois.gov</u> or faxing to (217) 785-1524. The subject line must include the bid Item Number and the Letting date. The Utilization Plan should be sent as one .pdf file, rather than multiple files and emails for the same Item Number. It is the responsibility of the bidder to obtain confirmation of email or fax delivery.

Alternatively, the Utilization Plan may be sent by certified mail or delivery service within the five calendar day period. If a question arises concerning the mailing date of a Utilization Plan, the mailing date will be established by the U.S. Postal Service postmark on the certified mail receipt from the U.S. Postal Service or the receipt issued by a delivery service when the Utilization Plan is received by the Department. It is the responsibility of the bidder to ensure the postmark or receipt date is affixed within the five days if the bidder intends to rely upon mailing or delivery to satisfy the submission day requirement. The Utilization Plan is to be submitted to:

Illinois Department of Transportation Bureau of Small Business Enterprises Contract Compliance Section 2300 South Dirksen Parkway, Room 319 Springfield, Illinois 62764

The Department will not accept a Utilization Plan if it does not meet the five day submittal requirement and the bid will be declared not responsive. In the event the bid is declared not responsive due to a failure to submit a Utilization Plan or failure to comply with the bidding procedures set forth herein, the Department may elect to cause the forfeiture of the penal sum of the bidder's proposal guaranty, and may deny authorization to bid the project if re-advertised for bids. The Department reserves the right to invite any other bidder to submit a Utilization Plan at any time for award consideration.

- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number, and telefax number of a responsible official of the bidder designated for purposes of notification of Utilization Plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. For bidding purposes, submission of the completed SBE 2025 forms, signed by the DBEs and scanned or faxed to the bidder will be acceptable as long as the original is available and provided upon request. All elements of information indicated on the said form shall be provided, including but not limited to the following:

- (1) The names and addresses of DBE firms that will participate in the contract;
- (2) A description, including pay item numbers, of the work each DBE will perform;
- (3) The dollar amount of the participation of each DBE firm participating. The dollar amount of participation for identified work shall specifically state the quantity, unit price, and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
- (4) DBE Participation Commitment Statements, form SBE 2025, signed by the bidder and each participating DBE firm documenting the commitment to use the DBE subcontractors whose participation is submitted to meet the contract goal;
- (5) If the bidder is a joint venture comprised of DBE companies and non-DBE companies, the Utilization Plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s); and,
- (6) If the contract goal is not met, evidence of good faith efforts; the documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor is selected over a DBE for work on the contract.

<u>GOOD FAITH EFFORT PROCEDURES</u>. The contract will not be awarded until the Utilization Plan submitted by the apparent successful bidder is approved. All information submitted by the bidder must be complete, accurate and adequately document that enough DBE participation has been obtained or document that good faith efforts of the bidder, in the event enough DBE participation has not been obtained, before the Department will commit to the performance of the contract by the bidder. The Utilization Plan will be approved by the Department if the Utilization Plan documents sufficient commercially useful DBE work to meet the contract goal or the bidder submits sufficient documentation of a good faith effort to meet the contract goal pursuant to 49 CFR Part 26, Appendix A. The Utilization Plan will not be approved by the Department if the Utilization Plan does not document sufficient DBE participation to meet the contract goal unless the apparent successful bidder documented in the Utilization Plan that it made a good faith effort to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which, by their scope, intensity and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not successful. The Department will consider the quality, quantity, and intensity of the kinds of efforts that the bidder has made. Mere pro forma efforts, in other words, efforts done as a matter of form, are not good faith efforts; rather, the bidder is expected to have taken genuine efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

(a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors

are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.

- (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
- (2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.
- (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
- (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.
 - b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable. In accordance with subsection (c)(6) of the above Bidding Procedures, the documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract.

- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
- (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
- (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the apparent successful bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that the bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification shall include a statement of reasons for the determination. If the Utilization Plan is not approved because it is deficient as a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no more than a five calendar day period in order to cure the deficiency.
- (c) The bidder may request administrative reconsideration of a determination adverse to the bidder within the five working days after the receipt of the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217) 785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The determination shall become final if a request is not made and delivered. A request may provide additional written documentation or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the

Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

<u>CALCULATING DBE PARTICIPATION</u>. The Utilization Plan values represent work anticipated to be performed and paid for upon satisfactory completion. The Department is only able to count toward the achievement of the overall goal and the contract goal the value of payments made for the work actually performed by DBE companies. In addition, a DBE must perform a commercially useful function on the contract to be counted. A commercially useful function is generally performed when the DBE is responsible for the work and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. The Department and Contractor are governed by the provisions of 49 CFR Part 26.55(c) on questions of commercially useful functions as it affects the work. Specific counting guidelines are provided in 49 CFR Part 26.55, the provisions of which govern over the summary contained herein.

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.
- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the following:
 - (1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.
 - (2) The DBE may also lease trucks from a non-DBE firm, including from an owneroperator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission is receives as a result of the lease arrangement.
- (e) DBE as a material supplier:

- (1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
- (2) 100 percent goal credit for the cost of materials of supplies obtained from a DBE manufacturer.
- (3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a DBE regular dealer or DBE manufacturer.

<u>CONTRACT COMPLIANCE</u>. Compliance with this Special Provision is an essential part of the contract. The Department is prohibited by federal regulations from crediting the participation of a DBE included in the Utilization Plan toward either the contract goal or the Department's overall goal until the amount to be applied toward the goals has been paid to the DBE. The following administrative procedures and remedies govern the compliance by the Contractor with the contractual obligations established by the Utilization Plan. After approval of the Utilization Plan and award of the contract, the Utilization Plan and individual DBE Participation Statements become part of the contract. If the Contractor did not succeed in obtaining enough DBE participation to achieve the advertised contract goal, and the Utilization Plan was approved and contract awarded based upon a determination of good faith, the total dollar value of DBE work calculated in the approved Utilization Plan as a percentage of the awarded contract value shall be come the amended contract goal. All work indicated for performance by an approved DBE shall be performed, managed, and supervised by the DBE executing the DBE Participation Commitment Statement.

- (a) <u>NO AMENDMENT</u>. No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764. Telephone number (217) 785-4611. Telefax number (217) 785-1524.
- (b) <u>CHANGES TO WORK</u>. Any deviation from the DBE condition-of-award or contract plans, specifications, or special provisions must be approved, in writing, by the Department as provided elsewhere in the Contract. The Contractor shall notify affected DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract. Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A or AER 260A, must be signed and submitted. If the commitment of work is in the form of additional tasks assigned to an existing subcontract, than a new Request for Approval of Subcontractor shall not be required. However, the Contractor must document efforts to assure that the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.

- (c) <u>SUBCONTRACT</u>. The Contractor must provide DBE subcontracts to IDOT upon request. Subcontractors shall ensure that all lower tier subcontracts or agreements with DBEs to supply labor or materials be performed in accordance with this Special Provision.
- (d) <u>ALTERNATIVE WORK METHODS</u>. In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractorinitiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
 - (1) That the replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award; or
 - (2) That the DBE is aware that its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
 - (3) That the DBE is not capable of performing the replacement work or has declined to perform the work at a reasonable competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.
- (e) <u>TERMINATION AND REPLACEMENT PROCEDURES</u>. The Contractor shall not terminate or replace a DBE listed on the approved Utilization Plan, or perform with other forces work designated for a listed DBE except as provided in this Special Provision. The Contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the Contractor obtains the Department's written consent as provided in subsection (a) of this part. Unless Department consent is provided for termination of a DBE subcontractor, the Contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the DBE in the Utilization Plan.

As stated above, the Contractor shall not terminate or replace a DBE subcontractor listed in the approved Utilization Plan without prior written consent. This includes, but is not limited to, instances in which the Contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm. Written consent will be granted only if the Bureau of Small Business Enterprises agrees, for reasons stated in its concurrence document, that the Contractor has good cause to terminate or replace the DBE firm. Before transmitting to the Bureau of Small Business Enterprises any request to terminate and/or substitute a DBE subcontractor, the Contractor shall give notice in writing to the DBE subcontractor,

with a copy to the Bureau, of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor shall give the DBE five days to respond to the Contractor's notice. The DBE so notified shall advise the Bureau and the Contractor of the reasons, if any, why it objects to the proposed termination of its subcontract and why the Bureau should not approve the Contractor's action. If required in a particular case as a matter of public necessity, the Bureau may provide a response period shorter than five days.

For purposes of this paragraph, good cause includes the following circumstances:

- (1) The listed DBE subcontractor fails or refuses to execute a written contract;
- (2) The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor;
- (3) The listed DBE subcontractor fails or refuses to meet the prime Contractor's reasonable, nondiscriminatory bond requirements;
- (4) The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
- (5) The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1200 or applicable state law.
- (6) You have determined that the listed DBE subcontractor is not a responsible contractor;
- (7) The listed DBE subcontractor voluntarily withdraws from the projects and provides to you written notice of its withdrawal;
- (8) The listed DBE is ineligible to receive DBE credit for the type of work required;
- (9) A DBE owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract;
- (10) Other documented good cause that compels the termination of the DBE subcontractor. Provided, that good cause does not exist if the prime Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the prime Contractor can self-perform the work for which the DBE contractor was engaged or so that the prime Contractor can substitute another DBE or non-DBE contractor after contract award.

When a DBE is terminated, or fails to complete its work on the Contract for any reason the Contractor shall make a good faith effort to find another DBE to substitute for the original DBE to perform at least the same amount of work under the contract as the terminated DBE to the extent needed to meet the established Contract goal. The good faith efforts shall be documented by the Contractor. If the Department requests documentation under this provision, the Contractor shall submit the documentation within seven days, which may be extended for an additional seven days if necessary at the request of the Contractor. The Department shall provide a written determination to the Contractor stating whether or not good faith efforts have been demonstrated.

- (f) <u>FINAL PAYMENT</u>. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Resident Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (h) of this part.
- (g) <u>ENFORCEMENT</u>. The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.
- (h) <u>RECONSIDERATION</u>. Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor my request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department. The result of the reconsideration process is not administratively appealable to the U.S. Department of Transportation.

EQUIPMENT PARKING AND STORAGE (BDE)

Effective: November 1, 2017

Replace the first paragraph of Article 701.11 of the Standard Specifications with the following.

"**701.11 Equipment Parking and Storage.** During working hours, all vehicles and/or nonoperating equipment which are parked, two hours or less, shall be parked at least 8 ft (2.5 m) from the open traffic lane. For other periods of time during working and for all nonworking hours, all vehicles, materials, and equipment shall be parked or stored as follows.

- (a) When the project has adequate right-of-way, vehicles, materials, and equipment shall be located a minimum of 30 ft (9 m) from the pavement.
- (b) When adequate right-of-way does not exist, vehicles, materials, and equipment shall be located a minimum of 15 ft (4.5 m) from the edge of any pavement open to traffic.
- (c) Behind temporary concrete barrier, vehicles, materials, and equipment shall be located a minimum of 24 in. (600 mm) behind free standing barrier or a minimum of 6 in. (150 mm) behind barrier that is either pinned or restrained according to Article 704.04. The 24 in. or 6 in. measurement shall be from the base of the non-traffic side of the barrier.
- (d) Behind other man-made or natural barriers meeting the approval of the Engineer."

HOT-MIX ASPHALT - DENSITY TESTING OF LONGITUDINAL JOINTS (BDE)

Effective: January 1, 2010 Revised: April 1, 2016

<u>Description</u>. This work shall consist of testing the density of longitudinal joints as part of the quality control/quality assurance (QC/QA) of hot-mix asphalt (HMA). Work shall be according to Section 1030 of the Standard Specifications except as follows.

<u>Quality Control/Quality Assurance (QC/QA)</u>. Delete the second and third sentence of the third paragraph of Article 1030.05(d)(3) of the Standard Specifications.

Add the following paragraphs to the end of Article 1030.05(d)(3) of the Standard Specifications:

"Longitudinal joint density testing shall be performed at each random density test location. Longitudinal joint testing shall be located at a distance equal to the lift thickness or a minimum of 4 in. (100 mm), from each pavement edge. (i.e. for a 5 in. (125 mm) lift the near edge of the density gauge or core barrel shall be within 5 in. (125 mm) from the edge of pavement.) Longitudinal joint density testing shall be performed using either a correlated nuclear gauge or cores.

- a. Confined Edge. Each confined edge density shall be represented by a oneminute nuclear density reading or a core density and shall be included in the average of density readings or core densities taken across the mat which represents the Individual Test.
- b. Unconfined Edge. Each unconfined edge joint density shall be represented by an average of three one-minute density readings or a single core density at the given density test location and shall meet the density requirements specified herein. The three one-minute readings shall be spaced 10 ft (3 m) apart longitudinally along the unconfined pavement edge and centered at the random density test location."

Revise the Density Control Limits table in Article 1030.05(d)(4) of the Standard Specifications to read:

"Mixture Composition	Parameter	Individual Test (includes confined	Unconfined Edge Joint Density
		edges)	Minimum
IL-4.75	Ndesign = 50	93.0 – 97.4% 1/	91.0%
IL-9.5	Ndesign = 90	92.0 - 96.0%	90.0%
IL-9.5,IL-9.5L	Ndesign < 90	92.5 - 97.4%	90.0%
IL-19.0	Ndesign = 90	93.0 - 96.0%	90.0%
IL-19.0, IL-19.0L	Ndesign < 90	93.0 ^{2/} - 97.4%	90.0%
SMA	Ndesign = 50 & 80	93.5 - 97.4%	91.0%"

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HOT-MIX ASPHALT – TACK COAT (BDE)

Effective: November 1, 2016

Revise Article 1032.06(a) of the Standard Specifications to read:

"(a) Anionic Emulsified Asphalt. Anionic emulsified asphalts shall be according to AASHTO M 140. SS-1h emulsions used as a tack coat shall have the cement mixing test waived."

LIGHTS ON BARRICADES (BDE)

Effective: January 1, 2018

Revise Article 701.16 of the Standard Specifications to read:

***701.16 Lights.** Lights shall be used on devices as required in the plans, the traffic control plan, and the following table.

Circumstance	Lights Required
Daylight operations	None
First two warning signs on each approach to the work involving a nighttime lane closure and "ROUGH GROOVED SURFACE" (W8-I107) signs	Flashing mono-directional lights
Devices delineating isolated obstacles, excavations, or hazards at night (Does not apply to patching)	Flashing bi-directional lights
Devices delineating obstacles, excavations, or hazards exceeding 100 ft (30 m) in length at night (Does not apply to widening)	Steady burn bi-directional lights
Channelizing devices for nighttime lane closures on two-lane roads	None
Channelizing devices for nighttime lane closures on multi-lane roads	None
Channelizing devices for nighttime lane closures on multi-lane roads separating opposing directions of traffic	None
Channelizing devices for nighttime along lane shifts on multilane roads	Steady burn mono-directional lights
Channelizing devices for night time along lane shifts on two lane roads	Steady burn bi-directional lights
Devices in nighttime lane closure tapers on Standards 701316 and 701321	Steady burn bi-directional lights
Devices in nighttime lane closure tapers	Steady burn mono-directional lights
Devices delineating a widening trench	None
Devices delineating patches at night on roadways with an ADT less than 25,000	None
Devices delineating patches at night on roadways with an ADT of 25,000 or more	None

Batteries for the lights shall be replaced on a group basis at such times as may be specified by the Engineer."

Delete the fourth sentence of the first paragraph of Article 701.17(c)(2) of the Standard Specifications.

Revise the first paragraph of Article 603.07 of the Standard Specifications to read:

"603.07 Protection Under Traffic. After the casting has been adjusted and Class SI concrete has been placed, the work shall be protected by a barricade for at least 72 hours."

MANHOLES, VALVE VAULTS, AND FLAT SLAB TOPS (BDE)

Effective: January 1, 2018 Revised: March 2, 2018

<u>Description</u>. Manholes, valve vaults, and flat slab tops manufactured according to the current or previous Highway Standards listed below will be accepted on this contract:

Product	Current Standard	Previous Standard
Precast Manhole Type A, 4' (1.22 m) Diameter	602401-04	602401-03
Precast Manhole Type A, 5' (1.52 m) Diameter	602402	602401-03
Precast Manhole Type A, 6' (1.83 m) Diameter	602406-08	602406-07
Precast Manhole Type A, 7' (2.13 m) Diameter	602411-06	602411-05
Precast Manhole Type A, 8' (2.44 m) Diameter	602416-06	602416-05
Precast Manhole Type A, 9' (2.74 m) Diameter	602421-06	602421-05
Precast Manhole Type A, 10' (3.05 m) Diameter	602426	n/a
Precast Valve Vault Type A, 4' (1.22 m) Diameter	602501-03	602501-02
Precast Valve Vault Type A, 5' (1.52 m) Diameter	602506	602501-02
Precast Reinforced Concrete Flat Slab Top	602601-05	602601-04

When manufacturing to the current standards, the following revisions to the Standard Specifications shall apply:

Revise Article 602.02(g) of the Standard Specifications to read:

"(g) Structural Steel (Note 4) 1006.04

Note 4. All components of the manhole joint splice shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable."

Add the following to Article 602.02 of the Standard Specifications:

"(s) Anchor Bolts and Rods (Note 5) 1006.09

Note 5. The threaded rods for the manhole joint splice shall be according to the requirements of ASTM F 1554, Grade 55, (Grade 380)."

Add the following paragraph after the first paragraph of Article 602.07 of the Standard Specifications:

"Threaded rods connecting precast sections shall be brought to a snug tight condition."

Revise the second paragraph of Article 1042.10 of the Standard Specifications to read:

"Catch basin Types A, B, C, and D; Manhole Type A; Inlet Types A and B; Drainage Structures Types 1, 2, 3, 4, 5, and 6; Valve Vault Type A; and reinforced concrete flat slab top

(Highway Standard 602601) shall be according to AASHTO M 199 (M 199M), except the minimum wall thickness shall be 3 in. (75 mm). Additionally, catch basins, inlets, and drainage structures shall have a minimum concrete compressive strength of 4500 psi (31,000 kPa) at 28 days and manholes, valve vaults, and reinforced concrete flat slab tops shall have a minimum concrete compressive strength of 5000 psi (34,500 kPa) at 28 days."

PAYMENTS TO SUBCONTRACTORS (BDE)

Effective: November 2, 2017

Add the following to the end of the fourth paragraph of Article 109.11 of the Standard Specifications:

"If reasonable cause is asserted, written notice shall be provided to the applicable subcontractor and/or material supplier and the Engineer within five days of the Contractor receiving payment. The written notice shall identify the contract number, the subcontract or material purchase agreement, a detailed reason for refusal, the value of payment being withheld, and the specific remedial actions required of the subcontractor and/or material supplier so that payment can be made."

PORTABLE CHANGEABLE MESSAGE SIGNS (BDE)

Effective: November 1, 2016 Revised: April 1, 2017

Revise the second paragraph of Article 701.20(h) of the Standard Specifications to read:

"For all other portable changeable message signs, this work will be paid for at the contract unit price per calendar day for each sign as CHANGEABLE MESSAGE SIGN."

Revise this second sentence of the first paragraph of Article 1106.02(i) of the Standard Specifications to read:

"The message panel shall be a minimum of 7 ft (2.1 m) above the edge of pavement in urban areas and a minimum of 5 ft (1.5 m) above the edge of pavement in rural areas, present a level appearance, and be capable of displaying up to eight characters in each of three lines at a time."

PORTLAND CEMENT CONCRETE (BDE)

Effective: November 1, 2017

Revise the Air Content % of Class PP Concrete in Table 1 Classes of Concrete and Mix Design Criteria in Article 1020.04 of the Standard Specifications to read:

"TABLE 1. CLASSES OF CONCRETE AND MIX DESIGN CRITERIA		
Class of Conc.	Use	Air Content %
PP	Pavement Patching Bridge Deck Patching (10)	
	PP-1	
	PP-2	
	PP-3 PP-4	4.0 - 8.0"
	PP-5	

Revise Note (4) at the end of Table 1 Classes of Concrete and Mix Design Criteria in Article 1020.04 of the Standard Specifications to read:

"(4) For all classes of concrete, the maximum slump may be increased to 7 in (175 mm) when a high range water-reducing admixture is used. For Class SC, the maximum slump may be increased to 8 in. (200 mm). For Class PS, the maximum slump may be increased to 8 1/2 in. (215 mm) if the high range water-reducing admixture is the polycarboxylate type."

PORTLAND CEMENT CONCRETE SIDEWALK (BDE)

Effective: August 1, 2017

Revise the first paragraph of Article 424.12 of the Standard Specifications to read:

"**424.12 Method of Measurement.** This work will be measured for payment in place and the area computed in square feet (square meters). Curb ramps, including side curbs and side flares, will be measured for payment as sidewalk. No deduction will be made for detectable warnings located within the ramp."

PROGRESS PAYMENTS (BDE)

Effective: November 2, 2013

Revise Article 109.07(a) of the Standard Specifications to read:

"(a) Progress Payments. At least once each month, the Engineer will make a written estimate of the quantity of work performed in accordance with the contract, and the value thereof at the contract unit prices. The amount of the estimate approved as due for payment will be vouchered by the Department and presented to the State Comptroller for payment. No amount less than \$1000.00 will be approved for payment other than the final payment.

Progress payments may be reduced by liens filed pursuant to Section 23(c) of the Mechanics' Lien Act, 770 ILCS 60/23(c).

If a Contractor or subcontractor has defaulted on a loan issued under the Department's Disadvantaged Business Revolving Loan Program (20 ILCS 2705/2705-610), progress payments may be reduced pursuant to the terms of that loan agreement. In such cases, the amount of the estimate related to the work performed by the Contractor or subcontractor, in default of the loan agreement, will be offset, in whole or in part, and vouchered by the Department to the Working Capital Revolving Fund or designated escrow account. Payment for the work shall be considered as issued and received by the Contractor or subcontractor on the date of the offset voucher. Further, the amount of the offset voucher shall be a credit against the Department's obligation to pay the Contractor, the Contractor's obligation to pay the subcontractor, and the Contractor's or subcontractor's total loan indebtedness to the Department. The offset shall continue until such time as the entire loan indebtedness is satisfied. The Department will notify the Contractor and Fund Control Agent in a timely manner of such offset. The Contractor or subcontractor shall not be entitled to additional payment in consideration of the offset.

The failure to perform any requirement, obligation, or term of the contract by the Contractor shall be reason for withholding any progress payments until the Department determines that compliance has been achieved."

RAILROAD PROTECTIVE LIABILITY INSURANCE (BDE)

Effective: December 1, 1986 Revised: January 1, 2006

<u>Description</u>. Railroad Protective Liability and Property Damage Liability Insurance shall be carried according to Article 107.11 of the Standard Specifications. A separate policy is required for each railroad unless otherwise noted.

NAMED INSURED & ADDRESS	NUMBER & SPEED OF PASSENGER TRAINS	NUMBER & SPEED OF FREIGHT TRAINS
METRA	98 Trains	36 Trains
547 W. Jackson Blvd.	70 mph	40 mph
Chicago, IL 60661		
DOT/AAR No.: 372171C & 372172J	RR Mile Post: 17.16 8	2 17.23
RR Division: MWD	RR Sub-Division: Elgi:	n
For Freight/Passenger Information Contact:Marilyn SchlismannPhone: (312)322-7093For Insurance Information Contact: Marilyn SchlismannPhone: (312)322-7093		

DOT/AAR No.: RR Division:	RR Mile Post: RR Sub-Division:	
For Freight/Passenger Information Contact: For Insurance Information Contact:		Phone: Phone:

<u>Approval of Insurance</u>. The original and one certified copy of each required policy shall be submitted to the following address for approval:

Illinois Department of Transportation Bureau of Design and Environment 2300 South Dirksen Parkway, Room 326 Springfield, Illinois 62764 The Contractor will be advised when the Department has received approval of the insurance from the railroad(s). Before any work begins on railroad right-of-way, the Contractor shall submit to the Engineer evidence that the required insurance has been approved by the railroad(s). The Contractor shall also provide the Engineer with the expiration date of each required policy.

<u>Basis of Payment</u>. Providing Railroad Protective Liability and Property Damage Liability Insurance will be paid for at the contract unit price per Lump Sum for RAILROAD PROTECTIVE LIABILITY INSURANCE.

SUBCONTRACTOR AND DBE PAYMENT REPORTING (BDE)

Effective: April 2, 2018

Add the following to Section 109 of the Standard Specifications.

"**109.14 Subcontractor and Disadvantaged Business Enterprise Payment Reporting.** The Contractor shall report all payments made to the following parties:

- (a) first tier subcontractors;
- (b) lower tier subcontractors affecting disadvantaged business enterprise (DBE) goal credit;
- (c) material suppliers or trucking firms that are part of the Contractor's submitted DBE utilization plan.

The report shall be made through the Department's on-line subcontractor payment reporting system within 21 days of making the payment."

SUBCONTRACTOR MOBILILATION PAYMENTS (BDE)

Effective: November 2, 2017

Replace the second paragraph of Article 109.12 of the Standard Specifications with the following:

"This mobilization payment shall be made at least 14 days prior to the subcontractor starting work. The amount paid shall be at the following percentage of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

Value of Subcontract Reported on Form BC 260A	Mobilization Percentage
Less than \$10,000	25%
\$10,000 to less than \$20,000	20%
\$20,000 to less than \$40,000	18%
\$40,000 to less than \$60,000	16%
\$60,000 to less than \$80,000	14%
\$80,000 to less than \$100,000	12%
\$100,000 to less than \$250,000	10%
\$250,000 to less than \$500,000	9%
\$500,000 to \$750,000	8%
Over \$750,000	7%"

TRAINING SPECIAL PROVISIONS (BDE) This Training Special Provision supersedes Section 7b of the Special Provision entitled "Specific Equal Employment Opportunity Responsibilities," and is in implementation of 23 U.S.C. 140(a).

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided as follows:

The contractor shall provide on-the-job training aimed at developing full journeyman in the type of trade or job classification involved. The number of trainees to be trained under this contract will be 1 . In the event the contractor subcontracts a portion of the contract work, he shall determine how many, if any, of the trainees are to be trained by the subcontractor, provided however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this Training Special Provision is made applicable to such subcontract. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

The number of trainees shall be distributed among the work classifications on the basis of the contractor's needs and the availability of journeymen in the various classifications within the reasonable area of recruitment. Prior to commencing construction, the contractor shall submit to the Illinois Department of Transportation for approval the number of trainees to be trained in each selected classification and training program to be used. Furthermore, the contractor shall specify the starting time for training in each of the classifications. The contractor will be credited for each trainee employed by him on the contract work who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for such trainees as provided hereinafter.

Training and upgrading of minorities and women toward journeyman status is a primary objective of this Training Special Provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g. by conducting systematic and direct recruitment through public and private sources likely to yield minority and women trainees) to the extent such persons are available within a reasonable area of recruitment. The contractor will be responsible for demonstrating the steps that he has taken in pursuance thereof, prior to a determination as to whether the contractor is in compliance with this Training Special Provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which he has successfully completed a training course leading to journeyman status or in which he has been employed as a journeyman. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used the contractor's records should document the findings in each case.

The minimum length and type of training for each classification will be as established in the training program selected by the contractor and approved by the Illinois Department of Transportation and the Federal Highway Administration. The Illinois Department of Transportation and the Federal Highway Administration shall approve a program, if it is reasonably calculated to meet the equal employment opportunity obligations of the contractor and to gualify the average trainee for journeyman status in the classification concerned by the end of the training period. Furthermore, apprenticeship programs registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau and training programs approved by not necessarily sponsored by the U.S. Department of Labor, Manpower Administration, Bureau of Apprenticeship and Training shall also be considered acceptable provided it is being administered in a manner consistent with the equal employment obligations of Federal-aid highway construction contracts. Approval or acceptance of a training program shall be obtained from the State prior to commencing work on the classification covered by the program. It is the intention of these provisions that training is to be provided in the construction crafts rather then clerk-typists or secretarial-type positions. Training is permissible in lower level management positions such as office engineers, estimators, timekeepers, etc., where the training is oriented toward construction applications. Training in the laborer classification may be permitted provided that significant and meaningful training is provided and approved by the Illinois Department of Transportation and the Federal Highway Administration. Some offsite training is permissible as long as the training is an integral part of an approved training program and does not comprise a significant part of the overall training.

Except as otherwise noted below, the contractor will be reimbursed 80 cents per hour of training given an employee on this contract in accordance with an approved training program. As approved by the Engineer, reimbursement will be made for training of persons in excess of the number specified herein. This reimbursement will be made even though the contractor receives additional training program funds from other sources, provided such other source does not specifically prohibit the contractor from receiving other reimbursement. Reimbursement for offsite training indicated above may only be made to the contractor where he does one or more of the following and the trainees are concurrently employed on a Federal-aid project; contributes to the cost of the training, provides the instruction to the trainee or pays the trainee's wages during the offsite training period.

No payment shall be made to the contractor if either the failure to provide the required training, or the failure to hire the trainee as a journeyman, is caused by the contractor and evidences a lack of good faith on the part of the contractor in meeting the requirement of this Training Special Provision. It is normally expected that a trainee will begin his training on the project as soon as feasible after start of work utilizing the skill involved and remain on the project as long as training opportunities exist in his work classification or until he has completed his training program.

It is not required that all trainees be on board for the entire length of the contract. A contractor will have fulfilled his responsibilities under this Training Special Provision if he has provided acceptable training to the number of trainees specified. The number trained shall be determined on the basis of the total number enrolled on the contract for a significant period.

Trainees will be paid at least 60 percent of the appropriate minimum journeyman's rate specified in the contract for the first half of the training period, 75 percent for the third quarter of the training period, and 90 percent for the last quarter of the training period, unless apprentices or trainees in an approved existing program are enrolled as trainees on this project. In that case, the appropriate rates approved by the Departments of Labor or Transportation in connection with the existing program shall apply to all trainees being trained for the same classification who are covered by this Training Special Provision.

The contractor shall furnish the trainee a copy of the program he will follow in providing the training. The contractor shall provide each trainee with a certification showing the type and length of training satisfactorily complete.

The contractor will provide for the maintenance of records and furnish periodic reports documenting his performance under this Training Special Provision.

<u>METHOD OF MEASUREMENT</u> The unit of measurement is in hours.

<u>BASIS OF PAYMENT</u> This work will be paid for at the contract unit price of 80 cents per hour for TRAINEES. The estimated total number of hours, unit price and total price have been included in the schedule of prices.

WARM MIX ASPHALT (BDE)

Effective: January 1, 2012 Revised: April 1, 2016

<u>Description</u>. This work shall consist of designing, producing and constructing Warm Mix Asphalt (WMA) in lieu of Hot Mix Asphalt (HMA) at the Contractor's option. Work shall be according to Sections 406, 407, 408, 1030, and 1102 of the Standard Specifications, except as modified herein. In addition, any references to HMA in the Standard Specifications, or the special provisions shall be construed to include WMA.

WMA is an asphalt mixture which can be produced at temperatures lower than allowed for HMA utilizing approved WMA technologies. WMA technologies are defined as the use of additives or processes which allow a reduction in the temperatures at which HMA mixes are produced and placed. WMA is produced by the use of additives, a water foaming process, or combination of both. Additives include minerals, chemicals or organics incorporated into the asphalt binder stream in a dedicated delivery system. The process of foaming injects water into the asphalt binder stream, just prior to incorporation of the asphalt binder with the aggregate.

Approved WMA technologies may also be used in HMA provided all the requirements specified herein, with the exception of temperature, are met. However, asphalt mixtures produced at temperatures in excess of 275 °F (135 °C) will not be considered WMA when determining the grade reduction of the virgin asphalt binder grade.

Equipment.

Revise the first paragraph of Article 1102.01 of the Standard Specifications to read:

"1102.01 Hot-Mix Asphalt Plant. The hot-mix asphalt (HMA) plant shall be the batch-type, continuous-type, or dryer drum plant. The plants shall be evaluated for prequalification rating and approval to produce HMA according to the current Bureau of Materials and Physical Research Policy Memorandum, "Approval of Hot-Mix Asphalt Plants and Equipment". Once approved, the Contractor shall notify the Bureau of Materials and Physical Research to obtain approval of all plant modifications. The plants shall not be used to produce mixtures concurrently for more than one project or for private work unless permission is granted in writing by the Engineer. The plant units shall be so designed, coordinated and operated that they will function properly and produce HMA having uniform temperatures and compositions within the tolerances specified. The plant units shall meet the following requirements."

Add the following to Article 1102.01(a) of the Standard Specifications.

- "(11) Equipment for Warm Mix Technologies.
 - a. Foaming. Metering equipment for foamed asphalt shall have an accuracy of ± 2 percent of the actual water metered. The foaming control system shall be electronically interfaced with the asphalt binder meter.

b. Additives. Additives shall be introduced into the plant according to the supplier's recommendations and shall be approved by the Engineer. The system for introducing the WMA additive shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes."

Mix Design Verification.

Add the following to Article 1030.04 of the Standard Specifications.

"(e) Warm Mix Technologies.

- (1) Foaming. WMA mix design verification will not be required when foaming technology is used alone (without WMA additives). However, the foaming technology shall only be used on HMA designs previously approved by the Department.
- (2) Additives. WMA mix designs utilizing additives shall be submitted to the Engineer for mix design verification."

Construction Requirements.

Revise the second paragraph of Article 406.06(b)(1) of the Standard Specifications to read:

"The HMA shall be delivered at a temperature of 250 to 350 °F (120 to 175 °C). WMA shall be delivered at a minimum temperature of 215 °F (102 °C)."

Basis of Payment.

This work will be paid at the contract unit price bid for the HMA pay items involved. Anti-strip will not be paid for separately, but shall be considered as included in the cost of the work.

WEEKLY DBE TRUCKING REPORTS (BDE)

Effective: June 2, 2012 Revised: April 2, 2015

The Contractor shall submit a weekly report of Disadvantaged Business Enterprise (DBE) trucks hired by the Contractor or subcontractors (i.e. not owned by the Contractor or subcontractors)
 that are used for DBE goal credit.

The report shall be submitted to the Engineer on Department form "SBE 723" within ten business days following the reporting period. The reporting period shall be Monday through Sunday for each week reportable trucking activities occur.

Any costs associated with providing weekly DBE trucking reports 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.

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor

performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information. d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and nonminority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391.

The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-thejob training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federallyassisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice

performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one

and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act. 2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

Contract Provision - Cargo Preference Requirements

In accordance with Title 46 CFR § 381.7 (b), the contractor agrees-

"(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract."

Provisions (1) and (2) apply to materials or equipment that are acquired solely for the project. The two provisions do not apply to goods or materials that come into inventories independent of the project, such as shipments of Portland cement, asphalt cement, or aggregates, when industry suppliers and contractors use these materials to replenish existing inventories.