# 194

Letting April 24, 2020

# Notice to Bidders, Specifications and Proposal



Contract No. 87730
DEKALB County
Section 18-P4006-01-BT
Route GREAT WESTERN TRAIL
Project KLJK-070 ()
District 3 Construction Funds

Prepared by

# Illinois Department of Transportation

#### **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 24, 2020 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. 87730
DEKALB County
Section 18-P4006-01-BT
Project KLJK-070 ()
Route GREAT WESTERN TRAIL
District 3 Construction Funds

Construction of a multi-use trial from existing Great Western Trail to Pleasant Street. The project is located within the DeKalb County Forest Preserve District, in the City of Sycamore and unincorporated Dekalb County.

- 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

Omer Osman, Acting Secretary

# INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

#### Adopted January 1, 2020

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

ERRATA Standard Specifications for Road and Bridge Construction

(Adopted 4-1-16) (Revised 1-1-20)

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# **BDE SPECIAL PROVISIONS**

The following special provisions indicated by an "X" are applicable to this contract. An  $^{\star}$  indicates a new or revised special provision for the letting.

	<u>File</u> Name	<u>Pg.</u>		Special Provision Title	<u>Effective</u>	Revised
*	80099			Accessible Pedestrian Signals (APS)	April 1, 2003	April 1, 2020
	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
	80246			Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	
	80241			Bridge Demolition Debris	July 1, 2009	
	50261			Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	50481			Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	50491			Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	50531			Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
	80425			Cape Seal	Jan. 1, 2020	
	80384	70	Х	Compensable Delay Costs	June 2, 2017	April 1, 2019
	80198			Completion Date (via calendar days)	April 1, 2008	
	80199			Completion Date (via calendar days) Plus Working Days	April 1, 2008	1 1 4 0040
	80293			Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
	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			Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80387			Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
	80029	74	Χ	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Mar. 2, 2019
	80402	84	Χ	Disposal Fees	Nov. 1, 2018	
	80378			Dowel Bar Inserter	Jan. 1, 2017	Jan. 1, 2018
	80405			Elastomeric Bearings	Jan. 1, 2019	
	80421			Electric Service Installation	Jan. 1, 2020	
	80415	86	Χ	Emulsified Asphalts	Aug. 1, 2019	
	80423			Engineer's Field Office Laboratory	Jan. 1, 2020	
	80388	89	Χ	Equipment Parking and Storage	Nov. 1, 2017	
	80229	90	Χ	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
	80417			Geotechnical Fabric for Pipe Underdrains and French Drains	Nov. 1, 2019	
	80420			Geotextile Retaining Walls	Nov. 1, 2019	
	80304			Grooving for Recessed Pavement Markings	Nov. 1, 2012	Nov. 1, 2017
	80422			High Tension Cable Median Barrier Reflectors	Jan. 1, 2020	
	80416	93	Х	Hot-Mix Asphalt – Binder and Surface Course	July 2, 2019	Nov. 1, 2019
	80398			Hot-Mix Asphalt – Longitudinal Joint Sealant	Aug. 1, 2018	Nov. 1, 2019
*	80406			Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT Data Collection)	Jan. 1, 2019	Jan. 2, 2020
	80347			Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	July 2, 2019
	80383			Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	July 2, 2010
	80411			Luminaires, LED	April 1, 2017 April 1, 2019	July 2, 2019
	80393	100	Χ	Manholes, Valve Vaults, and Flat Slab Tops	Jan. 1, 2018	Mar. 1, 2019
	80045	100		Material Transfer Device	June 15, 1999	Aug. 1, 2014
	80418			Mechanically Stabilized Earth Retaining Walls	Nov. 1, 2019	Aug. 1, 2014
	80424			Micro-Surfacing and Slurry Sealing	Jan. 1, 2020	
*	80428	102	Χ	Mobilization	April 1, 2020	
	80165			Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
	80412			Obstruction Warning Luminaires, LED	Aug. 1, 2019	
	80349			Pavement Marking Blackout Tape	Nov. 1, 2014	April 1, 2016
	80371			Pavement Marking Removal	July 1, 2016	•
	80389	103	Χ	Portland Cement Concrete	Nov. 1, 2017	

	<u>File</u>	<u>Pg.</u>		Special Provision Title	<b>Effective</b>	Revised
	Name 80359			Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2019
	80300			Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2013 April 1, 2012	April 1, 2016
	3426I			Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
	80157			Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	Jan. 1, 2000
*	80306	104	Х	Reclaimed Asphalt Pavement (RAP) and Reclaimed	Nov. 1, 2012	Jan. 2, 2020
	00000	104		Asphalt Shingles (RAS)	1407. 1, 2012	Jan. 2, 2020
	80407	114	Χ	Removal and Disposal of Regulated Substances	Jan. 1, 2019	Jan. 1, 2020
*	80419	125	X	Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric	Nov. 1, 2019	April 1, 2020
	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
	80408			Steel Plate Beam Guardrail Manufacturing	Jan. 1, 2019	_
	80413	131	Χ	Structural Timber	Aug. 1, 2019	
	80397	132	Χ	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	133	Χ	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80317			Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	Aug. 1, 2019
	80298			Temporary Pavement Marking	April 1, 2012	April 1, 2017
	80403			Traffic Barrier Terminal, Type 1 Special	Nov. 1, 2018	
	80409	134	Χ	Traffic Control Devices – Cones	Jan. 1, 2019	
	80410			Traffic Spotters	Jan. 1, 2019	
	20338	135	Χ	Training Special Provisions	Oct. 15, 1975	
	80318			Traversable Pipe Grate for Concrete End Sections	Jan. 1, 2013	Jan. 1, 2018
*	80429			Ultra-Thin Bonded Wearing Course	April 1, 2020	
	80288	138	Χ	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
	80302	140	Χ	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
*	80414			Wood Fence Sight Screen	Aug. 1, 2019	April 1, 2020
*	80427			Work Zone Traffic Control Devices	Mar. 2, 2020	
	80071	141	Χ	Working Days	Jan. 1, 2002	

The following special provisions are in the 2020 Supplemental Specifications and Recurring Special Provisions.

<u>File</u>	<b>Special Provision Title</b>	New Location(s)	<b>Effective</b>	Revised
<u>Name</u>				
80404	Coarse Aggregate Quality for	Article 1004.01(b)	Jan. 1, 2019	
	Micro-Surfacing and Cape Seals			
80392	Lights on Barricades	Articles 701.16, 701.17(c)(2)	Jan. 1, 2018	
	-	& 603.07		
80336	Longitudinal Joint and Crack Patching	Check Sheet #36	April 1, 2014	April 1, 2016
80400	Mast Arm Assembly and Pole	Article 1077.03(b)	Aug. 1, 2018	•
80394	Metal Flared End Section for Pipe Culverts	Articles 542.07(c) and 542.11	Jan. 1, 2018	April 1, 2018
80390	Payments to Subcontractors	Article 109.11	Nov. 2, 2017	•
	•		•	

The following special provisions have been deleted from use.

<u>File</u>	Special Provision Title	<b>Effective</b>	<u>Revised</u>
<u>Name</u>			
80328	Progress Payments	Nov. 2, 2013	

# GUIDE BRIDGE SPECIAL PROVISION INDEX/CHECK SHEET

Effective as of the: November 8, 2019 Letting

<u>Pg</u> #	1	File Name	<u>Title</u>	<u>Effective</u>	Revised
		GBSP 4	Polymer Modified Portland Cement Mortar	June 7, 1994	Apr 1, 2016
		GBSP 12	Drainage System	June 10, 1994	Jun 24, 2015
		GBSP 13	High-Load Multi-Rotational Bearings	Oct 13, 1988	Apr 1, 2016
		GBSP 14	Jack and Remove Existing Bearings	April 20, 1994	April 13, 2018
		GBSP 15	Three Sided Precast Concrete Structure	July 12, 1994	Dec 21, 2016
		GBSP 16	Jacking Existing Superstructure	Jan 11, 1993	April 13, 2018
		GBSP 17	Bonded Preformed Joint Seal	July 12, 1994	Aug 9, 2019
		GBSP 18	Modular Expansion Joint	May 19, 1994	Aug 9, 2019
		GBSP 21	Cleaning and Painting Contact Surface Areas of Existing Steel Structures	June 30, 2003	Aug 9, 2019
		GBSP 25	Cleaning and Painting Existing Steel Structures	Oct 2, 2001	Apr 22, 2016
		GBSP 26	Containment and Disposal of Lead Paint Cleaning Residues	Oct 2, 2001	Apr 22, 2016
		GBSP 28	Deck Slab Repair	May 15, 1995	April 13, 2018
		GBSP 29	Bridge Deck Microsilica Concrete Overlay	May 15, 1995	March 1, 2019
		GBSP 30	Bridge Deck Latex Concrete Overlay	May 15, 1995	Oct 20, 2017
		GBSP 31	Bridge Deck High-Reactivity Metakaolin (HRM) Conc Overlay	Jan 21, 2000	March 1, 2019
142	Χ	GBSP 33	Pedestrian Truss Superstructure	Jan 13, 1998	Dec 29, 2014
		GBSP 34	Concrete Wearing Surface	June 23, 1994	Oct 4, 2016
		GBSP 35	Silicone Bridge Joint Sealer	Aug 1, 1995	Oct 15, 2011
		GBSP 45	Bridge Deck Thin Polymer Overlay	May 7, 1997	Feb 6, 2013
145	Х	GBSP 51	Pipe Underdrain for Structures	May 17, 2000	Jan 22, 2010
		GBSP 53	Structural Repair of Concrete	Mar 15, 2006	Aug 9, 2019
		GBSP 55	Erection of Curved Steel Structures	June 1, 2007	
		GBSP 56	Setting Piles in Rock	Nov 14, 1996	Apr 1, 2016
		GBSP 59	Diamond Grinding and Surface Testing Bridge Sections	Dec 6, 2004	Mar 29, 2017
		GBSP 60	Containment and Disposal of Non-Lead Paint Cleaning Residues	Nov 25, 2004	Apr 22, 2016
		GBSP 61	Slipform Parapet	June 1, 2007	March 1, 2019
		GBSP 67	Structural Assessment Reports for Contractor's Means and Methods	Mar 6, 2009	Oct 5, 2015
		GBSP 71	Aggregate Column Ground Improvement	Jan 15, 2009	Oct 15, 2011
		GBSP 72	Bridge Deck Fly Ash or GGBF Slag Concrete Overlay	Jan 18, 2011	March 1, 2019
		GBSP 75	Bond Breaker for Prestressed Concrete Bulb-T Beams	April 19, 2012	
		GBSP 77	Weep Hole Drains for Abutments, Wingwalls, Retaining Walls And Culverts	April 19, 2012	Oct 22, 2013
		GBSP 78	Bridge Deck Construction	Oct 22, 2013	Dec 21, 2016
		GBSP 79	Bridge Deck Grooving (Longitudinal)	Dec 29, 2014	Mar 29, 2017
		GBSP 81	Membrane Waterproofing for Buried Structures	Oct 4, 2016	March 1, 2019
		GBSP 82	Metallizing of Structural Steel	Oct 4, 2016	Oct 20, 2017
		GBSP 83	Hot Dip Galvanizing for Structural Steel	Oct 4, 2016	Oct 20, 2017
		GBSP 85	Micropiles	Apr 19, 1996	Aug 9, 2019
		GBSP 86	Drilled Shafts	Oct 5, 2015	Oct 4, 2016
		GBSP 87	Lightweight Cellular Concrete Fill	Nov 11, 2011	Apr 1, 2016
		GBSP 88	Corrugated Structural Plate Structures	Apr 22, 2016	April 13, 2018
		GBSP 89	Preformed Pavement Joint Seal	Oct 4, 2016	March 1, 2019
		GBSP 90	Three Sided Precast Concrete Structure (Special)	Dec 21, 2016	April 13, 2018
		GBSP 91	Crosshole Sonic Logging Testing of Drilled Shafts	Apr 20, 2016	Aug 9, 2019
		GBSP 92	Thermal Integrity Profile Testing of Drilled Shafts	Apr 20, 2016	

Pg	 File Name	<u>Title</u>	<u>Effective</u>	<u>Revised</u>
<u>#</u>				
	GBSP 93	Preformed Bridge Joint Seal	Dec 21, 2016	March 1, 2019
	GBSP 94	Warranty for Cleaning and Painting Steel Structures	Mar 3, 2000	Nov 24, 2004
	GBSP 95	Bituminous Coated Aggregate Slopewall	Mar 21, 1997	Mar 19, 2018
	GBSP 96	Erection of Bridge Girders Over or Adjacent to Railroads	Aug 9, 2019	

LIST ANY ADDITIONAL SPECIAL PROVISIONS BELOW	

The following Guide Bridge Special Provisions have been incorporated into the 2016 Standard Specifications:

File	Title	Std Spec
Name		Location
GBSP32	Temporary Sheet Piling	522
GBSP38	Mechanically Stabilized Earth Retaining Walls	522
GBSP42	Drilled Soldier Pile Retaining Wall	522
GBSP43	Driven Soldier Pile Retaining Wall	522
GBSP44	Temporary Soil Retention System	522
GBSP46	Geotextile Retaining Walls	522
GBSP57	Temporary Mechanically Stabilized Earth Retaining Walls	522
GBSP62	Concrete Deck Beams	504
GBSP64	Segmental Concrete Block Wall	522
GBSP65	Precast Modular Retaining Wall	522
GBSP73	Cofferdams	2017 Supp
GBSP74	Permanent Steel Sheet Piling (LRFD)	522
GBSP76	Granular Backfill for Structures	2017 Supp
GBSP80	Fabric Reinforced Elastomeric	1028
GBSP84	Precast, Prestressed Concrete Beams	2017 Supp

The following Guide Bridge Special Provisions have been discontinued or have been superseded:

File	Title	Disposition:
Name	Dread Francistics	Han TODO non Can FOO
GBSP70	Braced Excavation	Use TSRS per Sec 522
GBSP95	Bridge Deck Concrete Sealer	Use July 1, 2012 version for
		Repair projects only

> Project No.: KLJK(070) Job No.: C-93-021-19 Contract No.: 87730

#### STATE OF ILLINOIS

#### **SPECIAL PROVISIONS**

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction, Adopted April 1, 2016", the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the "Supplemental Specifications and Recurring Special Provisions Adopted January 1, 2020" indicated on the Check Sheet included herein, which apply to and govern the construction of the proposed improvements designated below, in DeKalb County, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

Great Western Trail Extension: Sycamore Forest Preserve to Old Mill Park
Section No.: 18-P4006-01-BT
Project No.: KLJK(070)

Job No.: C-93-021-19 Contract No.: 87730

### **LOCATION OF PROJECT**

The proposed multi-use trail project is located generally along north side of the Sycamore Forest Preserve east of the South Branch of the East Branch Kishwaukee River (Kishwaukee River) and generally an extension of limits of E. Page Street west of the Kishwaukee River. The trail is located on property owned by the DeKalb County Forest Preserve District, the City of Sycamore, and private owners, in the City of Sycamore and unincorporated DeKalb County. The portion of the trail east of the Kishwaukee River will be installed along a former railroad corridor and will be owned and maintained by the DeKalb County Forest Preserve District. The portion of the trail west of the Kishwaukee River will be installed on private or City property in easements obtained by the Park District. The gross length of the project is approximately 4,077 feet.

#### **DESCRIPTION OF PROJECT**

The project consists of 3,632 linear feet of 10-foot wide multi-use trails constructed with hot-mix asphalt surface pavement. The project will also include 255 linear feet of pedestrian bridges, 90 linear feet of boardwalk, and 60 linear feet of concrete approach pavements. The project also includes installation of storm sewers, signage, bollards, fences, topsoil stripping and placement, seeding, erosion control blanket, and all the incidental and collateral work necessary to complete the project as shown on the plans and as described herein. The project local agency is the Sycamore Park District. However, a portion of the project is located on DeKalb County Forest Preserve District property. The Sycamore Park District has entered into an IGA with the Forest Preserve District for installation of the project. The Sycamore Park District has also obtained easements from the City of Sycamore and private owners for installation and maintenance of the trail, which are shown on the plans. The access and work in the easement portions of the trail shall be limited to the easement areas only.

A majority of the project is located within the 100-year floodplain and regulatory floodway of the Kishwaukee River. Additionally, as a portion of the project is located in an existing farmed area, drain

Great Western Trail Extension Sycamore Forest Preserve to Old Mill Park

Section No.: 18-P4006-01-BT Project No.: KLJK(070) Job No.: C-93-021-19 Contract No.: 87730

tiles may be encountered. Should they be encountered, the Contractor shall contact the Owner or Engineer immediately. Any damage to tiles shall be repaired and replaced by the Contractor at no additional cost to the Owner.

Note: According to the Review for Endangered Species Act – Section 7, due to the potential presence of the Indiana bat and the Northern long-eared bat within the project area, trees larger than three (3) inches DBH shall not be cleared from April 1 through September 30 in order to avoid potential impacts to those species. Therefore, all tree removals shall be performed to meet those time period requirements in order to meet the Section 7 signoff requirements.

#### **SITE ACCESS**

For portions of the trail west of the Kishwaukee River, the proposed trail is entirely within an easement. Therefore, the only construction access allowed for these improvements is within the limits of the easement, which are noted on the plan. The Contractor shall access the work area from the Pleasant Street and E. Page Street intersection only. Additionally, the trail crosses one wetland area at approximately Station 112+50. No work is allowed in the wetland area and construction traffic through the wetland area shall only be completed using low ground pressure equipment or timber ground protection mats. Additionally, this portion of the trail crosses one tributary waterway at approximately Station 114+70 and the Kishwaukee River at approximately Station 117+30. **No construction activity is allowed in any waterway, and no equipment shall enter any waterway at any time**. Temporary crossings of the waterways shall span the waterway to avoid impacts.

For portions of the trail east of the Kishwaukee River, the Contractor shall access the work area through the existing asphalt driveways on the Forest Preserve District property. Contractor shall utilize only paved surfaces to access the work area.

Therefore, it is anticipated that for installation of the bridge over the Kishwaukee River, both abutments will need to be poured from a location on the east side of the river. Additionally, the superstructure will need to be placed with crane access only on the east side of the river.

#### **SEQUENCE OF CONSTRUCTION**

The overall sequence of construction throughout the project is as follows:

- 1. Perform tree removal, and clearing and grubbing throughout entire corridor.
- 2. Install all temporary fence.
- 3. Install perimeter erosion barrier and erosion control measures prior to earthwork activities.
- 4. Excavate site for trail installation, with all proposed trail areas graded to roughly 1-foot below final elevations on plans, perform proof roll, and remove and replace material as necessary.
- 5. Install bridge abutments, concrete approaches, and bridge superstructures.
- 6. Construct utilities. After completion of storm sewer installation, temporary & permanent sediment control filter barrier and sediment control flow-through filters shall be immediately place at each open-grate structure. Permanent erosion control measures shall also be placed.
- 7. Construct asphalt trails.
- 8. Temporarily stabilize site immediately following mass grading completion throughout project.
- 9. Perform fine grading.
- 10. Seed and stabilize site with biodegradable erosion control mat as fine grading is completed throughout the site.

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- 11. Install various additional improvements, including fencing, bollards, and signage.
- 12. Remove temporary erosion control measures following final stabilization & approval by Engineer & Owner.

#### **PERMITS**

Several permitting bodies have regulatory authority over specific portions of the project. The Owner has or will secure all permits prior to construction. However, it is the responsibility of the Contractor to be knowledgeable of all of the stipulations within these permits and follow the requirements of each permit and permitting body, including coordinating the required inspections. The Contractor shall incorporate final requirements of each permit into this work. The following is a list of the permits that have been or will be specifically received for this project:

- 1. City of Sycamore Building Permit
- 2. DeKalb County Site Development Permit
- 3. United States Army Corps of Engineers Nationwide Permit
- 4. Illinois Department of Natural Resources Office of Water Resources Floodway Construction Permit
- 5. Illinois Environmental Protection Agency ILR10 Construction Permit

#### **IDOT BUREAU OF BRIDGES AND STRUCTURES NOTE**

Based on the proposed span length (200') and in accordance with Guide Bridge Special Provision (GBSP) 33, the shop drawings for the pedestrian truss must be reviewed and approved for structural adequacy by the Bureau of Bridges and Structures. The shop drawings shall include all support reactions for each load type. In addition, GBSP 33 includes a certification statement that is to be placed on the first sheet of the bridge shop plans adjacent to the Structural Engineer's seal and signature. GBSP 33 may be found in these special provisions or at http://www.idot.illinois.gov/Assets/uploads/files/Doing-Business/Manuals-Guides-&-Handbooks/Highways/Bridges/Bridge-Special-Provisions/gbsp33.pdf

The Illinois Department of Transportation will perform steel fabrication inspection services for the prefabricated bridge. As such, the Engineer shall send a letter requesting such to the Bureau of Bridges and Structures (BBS) as soon as possible after the steel fabricator is determined. The Contractor shall inform the Owner of the fabricator as soon as possible to avoid inspection delays.

The Engineer shall send a copy of the approved shop drawings to the inspector and to the BBS for office use in assisting the inspector with technical or interpretation questions. The inspector and the BBS office will also require reference copies of any special provisions or project-specific specifications applicable to fabrication that are different from IDOT's Standard & Supplemental Specifications.

#### **WETLAND AREAS**

(Effective April 3, 1997; Revised April 22, 2010)

<u>Description</u>: According to Federal Executive Order 11990, dated May 24, 1977, and Articles 107.01 and 107.23 of the Standard Specifications, the Contractor shall protect the wetland areas on or adjacent to this project.

This work shall consist of constructing, maintaining, removing, and disposing of a temporary fence, perimeter erosion barrier, and signs as shown on the plans and as described herein.

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<u>Materials</u>: Temporary fence shall be a minimum of 4 ft. (1.2 m) in height and shall be a high visibility orange snow fence. Fence stakes shall meet the requirements of Article 1081.15(b) of the Standard Specifications.

Perimeter erosion barrier shall meet the requirements of Section 280 of the Standard Specifications.

Signs shall meet the requirements of Article 720.02 of the Standard Specifications and shall be 9" x 12" (225 mm x 300 mm) and shall read "Federally Protected Wetlands: KEEP OUT." Sign supports shall meet the requirements of Section 1093 of the Standard Specifications.

<u>Construction Requirements</u>: The Contractor shall install fence at all wetland areas as shown on the plans. The Contractor shall also install a minimum of two signs at each wetland location. Signs shall not be spaced greater than 300' (100 m) apart.

The Contractor shall remove the temporary fence at the completion of the project.

<u>Method of Measurement</u>: The temporary fence will be measured for payment in place in feet (meters) along the top of the fence. The signs, sign supports, and fence stakes will not be measured for payment.

Perimeter erosion barrier will be measured for payment according to Article 280.07 of the Standard Specifications. The Owner reserves the right to increase or reduce the quantity for perimeter erosion barrier. The Contractor is not entitled to compensation for any changes in quantities for this pay item.

<u>Basis of Payment</u>: The temporary fence will be paid for at the contract unit price per foot (meter) for TEMPORARY FENCE, which price shall include the cost of the snow fence, fence stakes, signs, and sign supports.

Perimeter erosion barrier will be paid for according to Article 280.08 of the Standard Specifications.

#### **EMBANKMENT**

(Effective July 1, 1990; Revised January 1, 2007)

This work shall be performed in accordance with Section <u>205</u> of the Standard Specifications except that the embankment material shall not be placed and compacted at moisture contents in excess of 110 percent of optimum moisture unless authorized, in writing, by the Engineer.

#### **AGGREGATE SUBGRADE IMPROVEMENT (District 3)**

(Effective April 1, 2012; Revised January 1, 2013)

Add the following Section to the Standard Specifications:

## 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.

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- - Note 1. Crushed RAP, from either full depth or single lift removal, may be mechanically blended with aggregate gradations CS 01 or CS 02 but shall not exceed 40 percent of the total product. The top size of the 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 gradations CS 01 or CS 02 are used in lower lifts. The RAP shall not be gap graded, single sized, or have a maximum size of less than 3/4 in. (19 mm).
  - 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.
- **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 gradations CS 01 and CS 02 shall be 24 in. (600 mm).
- **303.06 Capping Aggregate.** The top surface of the aggregate subgrade shall consist of a minimum 3 inches (75 mm) of aggregate gradations CA 06 or CA 10.
- **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 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.

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- (a) Description. The coarse aggregate shall be crushed gravel, crushed stone, or crushed concrete.
- (b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials.
- (c) Gradation.
  - (1) The coarse aggregate gradation for total subgrade thickness less than or equal to 12 inches (300 mm) shall be CS 02.

The coarse aggregate gradation for total subgrade thickness more than 12 inches (300 mm) shall be CS 01 or CS 02.

	COARSE AGGREGATE SUBGRADE					
Crad Na	Sieve Size and Percent Passing					
Grad No.	8"	6"	4"	2"	#4	
CS 01	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20	
CS 02		100	80 ± 10	25 ± 15		

	COARSE AGGREGATE SUBGRADE GRADATIONS					
Grad No.	Sieve Size and Percent Passing					
Grad No.	200 mm	150 mm	100 mm	50 mm	4.75 mm	
CS 01	100	$97 \pm 3$	90 ± 10	45 ± 25	20 ± 20	
CS 02		100	80 ± 10	25 ± 15		

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

#### TRAFFIC CONTROL PLAN

(Revised November 14, 2016)

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

Special attention is called to the following sections of the Standard Specifications, the Highway Standards, and the special provisions relating to traffic control:

#### Standard Specifications:

Section 701 - Work Zone Traffic Control and Protection

Section 703 - Work Zone Pavement Marking

Section 780 - Pavement Striping

Section 783 - Pavement Marking and Marker Removal

Section 1106 - Work Zone Traffic Control Devices

#### Highway Standards:

701001 701006 701301 701501 701801 701901

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In addition, the following also relate to traffic control for this project:

ERRATA – Standard Specifications for Road and Bridge Construction (Adopted 4-1-16) (Revised 1-1-17)

RECURRING SPECIAL PROVISIONS
Work Zone Public Information Signs

#### SPECIAL PROVISIONS

Alternate Route Signing
Changeable Message Sign
Keeping Roads Open to Traffic
Plastic Drums
Portable Changeable Message Signs
Portable Vehicle Mounted Changeable Message Sign
Temporary Information Signing
Temporary Paint Pavement Marking
Traffic Control Surveillance
Vehicle Parking

#### **EQUIPMENT ILLUMINATION**

(Revised January 26, 1998; Revised January 1, 2016)

The Contractor shall equip all vehicles entering and exiting the work area with flashing amber lights, installed so the illumination is visible from all directions.

#### **GRANULAR MATERIALS**

(Effective: November 26, 2013; Revised January 1, 2016)

For trench backfill and bedding for pipe culverts and storm sewers, gradations CA 7 or CA 11 may be used, however, the granular material shall be encased in filter fabric. The filter fabric shall be installed according to Article 282 of the Standard Specifications, except that the work will not be measured for payment, but will be included in the cost of the pipe culverts or storm sewers. Lifts for gradations CA 7 or CA 11 may exceed 8 inches (200 mm) in depth provided the material is seated to the satisfaction of the Engineer. All trench backfill and removal and disposal of material displaced by trench backfill will not be measured for payment, but will be included in the cost of the pipe culverts or storm sewers.

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#### **CONSTRUCTION LAYOUT (SPECIAL)**

# **Description:**

This work shall be in accordance with Recurring Special Provision #10 – Construction Layout Stakes, except as noted below. This work shall consist of furnishing a construction survey crew and all necessary equipment, materials, tools, and expertise needed for construction surveying, layout, **and preparation of As-Built Plans** (electronic and PDF format). The CONTRACTOR shall be required to furnish and place construction layout stakes for this project. The ENGINEER will provide an AutoCAD file with adequate reference points and benchmarks as shown on the plans.

The CONTRACTOR shall provide field forces, equipment and material to set all additional stakes for this project, which are needed to establish reference points and any other horizontal or vertical controls, including supplementary benchmarks, necessary to secure a correct layout of the work. Stakes for line shall be set at sufficient station intervals (not to exceed 50 feet) aligning with cross-sections shown in the plan to assure substantial conformance to the plan lines. The CONTRACTOR will not be required to set additional stakes to locate a utility line which is not included as a pay item in the contract nor to determine property lines between private properties.

The CONTRACTOR shall be responsible for having the finished work substantially conform to the lines and dimensions called for in the plans. Any inspection or checking of the CONTRACTOR'S layout by the ENGINEERS and the acceptance of all or any part of it shall not relieve the CONTRACTOR of his/her responsibility to secure the proper dimensions. The CONTRACTOR shall exercise care in the preservation of stakes and benchmarks and shall have them reset at his/her expense when any are damaged, lost, displaced or removed or otherwise obliterated.

#### Responsibility:

- a) The ENGINEER will make arrangements and take areas and lengths from which the various pay items are to be measured only where noted in these Special Provisions.
- b) Where the CONTRACTOR, in setting construction stakes, discovers discrepancies, the ENGINEER will check to determine their nature and make whatever revisions are necessary in the plans. Any additional re-staking required by the ENGINEER will be the responsibility of the CONTRACTOR. The additional re-staking done by the CONTRACTOR will be paid for in accordance with 109.04 of the Standard Specifications.
- c) The ENGINEER will provide electronic files of the design plans in AutoCAD format to the CONTRACTOR for use in construction layout.
- d) It is not the responsibility of the ENGINEER, except as provided herein, to check the correctness of the CONTRACTOR'S stakes.
- e) At the completion of construction, the CONTRACTOR will be responsible to prepare as-built drawings in compliance with the requirements of the City of Sycamore, which are to be signed and sealed by a Land Surveyor registered in the State of Illinois. Additionally, these drawings shall be provided in electronic format for the OWNER.
- f) All work shall be in accordance with normally accepted self-checking surveying practices. Field notes shall be kept in standard survey field notebooks and those books shall become the property of the OWNER at the completion of the project. All notes shall be neat, orderly and in accepted form.

All survey work for the OWNER shall meet the following standards.

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- The completed work must be submitted in both hard copy and digital format, which
  includes, three original reproducible bond copies and an electronic drawing file format,
  (AutoCAD Civil 3D 2007 or later), and a space or comma delimited text file, containing raw
  data in the form of (PENZD).
- The .dwg file must have X,Y and Z coordinates attached to all points and contours and shall be tied into the Illinois State Plane Coordinate System NAD 83 East Zone U.S. Survey Foot. If data is not acceptable to OWNER, meaning, not meeting the following specifications, OWNER reserves the right to return data to ENGINEER until it is corrected to meet the following specifications with no further compensation due consultant.

The drawing shall meet the following specifications (as required per contract):

- Drawings shall note all dimensions and elevations in imperial (foot) scale to the nearest .01 foot.
- Include legend of symbology and abbreviations used in drawing.
- Show all existing and newly constructed improvements per construction project specifications. All items to be included but not necessarily limited to; vegetation, one foot contours, high points, low points, storm sewer, and water piping size and type, manhole rims & pipe invert elevations, culvert inverts, pavement delineation and type, fences, and ALL existing utilities.
- Record drawings (AS-BUILTS) and Legal Descriptions as required.
- Show all trees 6" diameter and larger within survey site with a pre-defined tree block symbol.
- Capture mean elevation of water in any excavation, well and or nearby body of water.
- Do not break contour lines for elevation text nor shall text interfere with any mapping lines (do not trim to accommodate text).
- All contour lines should be continuous/closed polylines with respective "Z" coordinates.
- Spot elevations should have "Z" elevations and represented as a CIVIL 3D AutoCAD COGO point to the nearest .01 foot.
- All text associated with a spot elevation should match that elevation and be on a separate text layer.
- Color and line type shall be "by layer".
- Tie in two quarter section corners (X,Y,Z) into survey loop, if in close proximity to project site.
- Set at least one permanent benchmark on site for each 4 acres using an iron pipe marked with lath and with a description and with COGO point in drawing.
- Note all control points.
- All entities shall be drawn on the world coordinate system (do not change U.C.S. origin).
- Scale of drawing shall be 1:1 and all symbols shall be inserted at a scale of 1,1,1.
- All drawing entities (lines, polylines, blocks, etc.) shall be inserted in model space.
- All title blocks, legends, north arrow, etc. shall be inserted in paper space.
- All paper and Mylar copies of survey shall be signed and sealed by a professional land surveyor.
- Show all easements evidenced by a record document or evident in the field

#### Basis of Payment:

This work will be paid for at the contract lump sum price for CONSTRUCTION LAYOUT (SPECIAL) which will include all materials, equipment, and labor needed to perform the work as described herein.

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#### STABILIZED CONSTRUCTION ENTRANCE

<u>Description</u>: This work shall be in accordance with all applicable portions of Sections 1004 and 1080 of the Standard Specification for Road and Bridge Construction, except as modified herein and on the plans. This work shall consist of furnishing, installation, maintenance, removal and restoration of a stabilized pad of aggregate underlain with filter fabric as shown on the plans or directed by the Engineer.

Materials: Materials shall conform to the following:

IDOT Coarse Aggregate Gradation: CA-1. Filter Fabric shall consist of synthetic polymers composed of at least 85 percent by weight polypropylene, polyesters, polyamides, polyethylene, polyolefins, or polyvinylidene-chlorides. The geotextile shall be free of any chemical treatment or coating that significantly reduces its porosity. Fibers shall contain stabilizers and/or inhibitors to enhance resistance to ultraviolet lights. Capping stone may be used by the contractor at their own expense.

<u>Construction Requirements:</u> The coarse aggregate shall be a thickness of 6 inches or more. The stone entrance should not be filled until the area has been inspected and approved by the Engineer.

The rock shall be dumped and spread into place in approximately horizontal layers not more than 3 feet in thickness. It shall be placed in a manner to produce a reasonable homogeneous stable fill that contains no segregated pockets of large or small fragments or large unfilled space caused by bridging of the larger fragments. No compaction will be required beyond that resulting from the placing and spreading operations.

The dimensions shall be as shown on the plans.

All surface water flowing or diverted toward the construction entrance shall be piped across the entrance. Any pipe used for this will be considered included in the cost of STABILIZED CONSTRUCTION ENTRANCE.

The entrance shall remain in place and be maintained until the disturbed area is stabilized. Any sediment spilled onto public right of ways must be removed immediately.

Access to work zones shall be via the stabilized construction entrance depicted on the plans. No other access locations will be permitted unless with prior permission from the owner and the City of Sycamore. All Contractor vehicles, equipment and supplies shall be stored at staging areas as identified on the plans.

The Contractor will be responsible for maintaining the stabilized construction entrance until the completion of the project. Upon completion of the project, the stabilized construction entrance designated on the plans shall be removed by the Contractor

The Contractor shall restore the area to its original grading and condition.

<u>Basis of Payment:</u> This work shall be paid for per the contract unit price per square yard for STABILIZED CONSTRUCTION ENTRANCE. The payment shall constitute full compensation for all materials, sampling, labor, and equipment necessary to complete the work as specified.

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#### **EARTH EXCAVATION, SPECIAL**

<u>Description:</u> This work shall be performed in accordance with Section 202 of the Standard Specifications, with the following exceptions. EARTH EXCAVATION, SPECIAL shall consist of the excavation of earth materials and transportation and placement of suitable material at the embankment locations to bring this project site to the proposed sub grade elevations shown on the plans. EARTH EXCAVATION, SPECIAL shall also include excavation of topsoil. The volume of earth excavation is estimated at 2,000 cubic yards, of which only a portion may remain onsite. As a majority of the project is located in the floodplain, any surplus beyond what is shown for fill on the plans, or unsuitable material, from EARTH EXCAVATION, SPECIAL must be properly disposed of offsite by the Contractor. Soil borings are provided at the end of these special provisions as an Appendix.

An LPC-663 form is provided for use by the Contractor for a portion of the project area (stations 100+00 through 115+00. The Contractor shall comply with Clean Construction or Demolition Debris (CCDD) requirements per Illinois Public Act 96-1416 and the Environmental Protection Agency. The cost of soil sampling and analysis to comply with Illinois Public Act 96-1416 shall be incidental to EARTH EXCAVATION, SPECIAL. Please note that the LPC-663 form does not apply to excavation within the abandoned railroad embankment areas (stations 115+00 through 140+76). Is intended for the non-special (non-CCDD) excavated material to remain onsite as fill through the remainder of the project area to the extent possible. However, it is anticipated that a portion of the non-special waste will need to be disposed of offsite.

The cost of any offsite disposal of excavated materials shall be included in the cost of Earth Excavation, Special. The additional cost of testing and disposal of materials not qualifying as CCDD shall be paid for separately under SOIL DISPOSAL ANALYSIS and NON-SPECIAL WASTE DISPOSAL.

The removal and disposal of unsuitable materials to allow aggregate subgrade improvement to be installed below the pavement sub-base as necessary and as directed by the ENGINEER will be paid for separately under REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

Note: Excavated materials shall not be stockpiled onsite for longer than a 24-hour period.

<u>Basis of Payment:</u> This work shall be paid for per the contract unit price per cubic yard for EARTH EXCAVATION, SPECIAL, which shall include excavation, placement as embankment, and disposal offsite. The payment shall constitute full compensation for all materials, sampling, labor, and equipment necessary to complete the work as specified.

## **TOPSOIL FURNISH AND PLACE, 6"**

<u>Description:</u> Soil borings are provided at the end of this document. This work shall be performed in accordance with Section 211 of the Standard Specifications, with the following additions.

Contractor shall furnish and place topsoil adjacent to the trail such that the minimum topsoil depth is six inches (6") throughout the limits of construction. It is anticipated that a portion of the topsoil materials required for this item may be generated from EARTH EXCAVATION, SPECIAL. Topsoil shall meet the requirements of Section 211 in order to be deemed acceptable for use. Topsoil generated from EARTH EXCAVATION, SPECIAL may not be stockpiled onsite for longer than a 24-hour period.

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Upon completion of mass grading, the topsoil shall be placed to match the final grades show in the plans. As the project is located within the floodplain, surplus topsoil generated from EARTH EXCAVATION, SPECIAL shall be disposed of offsite.

<u>Method of Measurement:</u> This item shall be measured in place after the topsoil has been placed at final grade. It will be measured on a square yard basis, and a depth of six (6) shall be assumed. The CONTRACTOR shall not receive additional payment if depths are above the specified amount. The limits of topsoil placement are shown in the cross-sections. The CONTRACTOR shall be paid only to these limits unless approval is received from the ENGINEER during construction for alternate topsoil limits.

<u>Basis of Payment:</u> This work shall be paid for per the contract unit price per square yard for TOPSOIL FURNISH AND PLACE, 6". The payment shall constitute full compensation for all materials, sampling, labor, and equipment necessary to complete the work as specified.

#### **SAWCUTTING**

<u>Description:</u> Unless otherwise indicated in the Special Provisions, sawcutting operations associated with the conduct of the project shall be considered incidental to the work item being performed. The Contractor will sawcut for all items to be removed or installed. The Contractor shall also sawcut existing pavements where proposed pavements will abut in order for a clean edge to be provided. The Contractor shall be responsible for removing the residue created by sawcutting operations in a manner acceptable to the Engineer. The resulting surface shall be sufficiently clean so that no tracking of residue by vehicles or pedestrians occurs.

#### **FOLD DOWN BOLLARDS**

<u>Description:</u> This work shall consist of furnishing and installing a 36" double post steel fold down bollard at locations on the plans and as directed by the Engineer. The Fold Down Bollard shall be a collapsible bollard and shall be installed so that it lies flat on pavement when unlocked. Open Bollard shall be parallel to edges of trail. Footing shall be included in the unit price bid for FOLD DOWN BOLLARDS. On the trail side of the fold down bollard a high intensity retroreflective stop sign shall be adhered to the upper section of the bollard having approximately the same width as the bollard.

<u>Basis of Payment:</u> This item will be paid for at the contract price per each FOLD DOWN BOLLARDS. The price shall be payment in full for all services, materials, labor, equipment, tools and incidentals to complete this item.

#### **BOLLARDS**

<u>Description:</u> This work shall consist of furnishing and installing a wood bollard at locations on the plans and as directed by the Engineer. The wood bollard shall be installed per all applicable details and the work shall include all excavation and backfill.

<u>Basis of Payment:</u> This item will be paid for at the contract price per each BOLLARDS. The price shall be payment in full for all services, materials, labor, equipment, tools and incidentals to complete this item.

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#### **PAVEMENT REMOVAL**

<u>Description:</u> This work will be performed in accordance with Section 440 of the Standard Specifications with the following amendments.

This work will include all saw cutting, full depth removal of asphalt and aggregate pavement including existing aggregate base. No additional compensation for pavement removal shall be allowed without written direction from the OWNER prior to the commencement of any work. All materials shall be properly disposed of offsite.

<u>Basis of Payment:</u> This work will be paid for at the contract unit price per square yard for PAVEMENT REMOVAL, which price shall include the cost of removing and disposing of the full depth of asphalt or stone surface course and removing and storing (if materials are to be reused) or disposing full depth of stone base course materials.

#### **HOT-MIX ASPHALT SURFACE COURSE**

<u>Descriptions:</u> This work will consist of the placement of Hot-Mix Asphalt Surface Course to the width, length, and depth indicated on the plans. The Hot-Mix Asphalt shall be placed in accordance with the methods and with materials in accordance with Sections 355, 406 and 1000 of the SSRBC.

Construction Requirements: Pavement areas shall consist of HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 3", which shall be furnished and placed on a prepared base all in accordance with Section 406 of the Standard Specifications. Per the requirements of District 3, the HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 shall be placed in two 1.5" lifts.

The CONTRACTOR shall not use equipment of excessive size or weight that causes damage to existing or new pavement, particularly when placing the second 1.5" lift of asphalt over the first 1.5" lift. Any damage to the existing pavement that is to remain in place or new pavement shall be removed and replaced by the CONTRACTOR at his/her own expense.

<u>Basis of Payment:</u> This work will be paid for at the contract price per ton for HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, which shall include all labor, equipment, and materials required to complete this work.

## **WOOD POST AND RAIL FENCE**

<u>Description:</u> This work shall consist of furnishing and installing a wood post and rail fence in accordance with applicable portions of Sections 507 and 641 of the Standard Specifications, at locations noted on the plans.

The posts and rails shall comply with the requirements of Section 1007 of the Standard Specifications for No. 1 Dense SR 1550 F for southern pine or No. 1 Dense 1400 F for Douglas fir. All lumber shall be sound and free from excessive splitting or deterioration. Dimensions shown on the plans are for surfaced (S4S) lumber. All wood used for posts and rails shall be treated with ACA or CCA according to Article 1007.12, Miscellaneous Lumber for Human Contact. After erection of the fence, the Contractor

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shall apply two (2) coats of a commercially available water seal for treated lumber meeting the approval of the Engineer.

Hardware shall include all necessary fasteners and appurtenances for construction of the fence and shall be according to Article 1006.17. Any concrete foundations, if required, to stabilized the posts shall not be paid for separately but shall be considered included in the cost of this item.

Wooden fence construction shall conform to the applicable portions of Sections 507 and 641 of the Standard Specifications. The backfill for posts shall be CA 6, CA 10, or CA 12 aggregate according to Article 1004.01. Backfill shall be thoroughly compacted, meeting the approval of the Engineer.

The wood posts and rail fence will be measured for payment in feet along the top of the fence from center to center of end posts.

<u>Basis of Payment:</u> This work will be paid for at the contract unit price per foot for WOOD POST AND RAIL FENCE. The price shall include all equipment, materials and labor required to complete the work as specified herein.

#### **BRIDGE FENCE RAILING (SPECIAL)**

<u>Description:</u> This work shall consist of the designing, fabrication, storage, delivery and erection of the metal railing on the exterior face of the truss as shown on the drawings. Also included in this work shall be the furnishing and installation of all components and miscellaneous items necessary to erect the railing items as indicated on the plans. The Bridge Fence Railing (special) shall follow the guidelines of Section 509 of the IDOT Standard Specifications.

<u>Materials:</u> Materials shall be according to section 509.02 of the standard specifications. The chain link fabric, ties and tensioning components shall be vinyl coated according to Article 1006.27(a)(1)d. The Bridge Fence Railing does NOT need to be weathering steel.

<u>Submittals:</u> Before beginning fabrication, the Contractor shall submit shop drawings for approval to the Engineer according to Article 505.03. The drawings will be formally reviewed.

<u>Aesthetics:</u> This new bridge is located next to the old railroad bed. The railing proposed shall duplicate the appearance of the old railing dictated in the photograph below. The top X pattern of the steel bridge fence rail may be cut out of 1/2 " steel plate. However, the final product must match the aesthetics of the bridge. The 1" picket width must also be preserved.

<u>Painting:</u> Organic Zinc Rich Primer/ Epoxy/ urethane Paint System shall be used for painting of new structural steel bridge fence railing. The entire system shall be shop applied, except for the masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the finish coat shall be Reddish Brown, Munsell No. 2.5YE <sup>3</sup>/<sub>4</sub>.

The chain link fence shall be vinyl coated, color redwood to match the weathering steel and the reddish-brown bridge fence railing.

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<u>Method of Measurement:</u> This work will be measured for payment in place in feet. The length measured will be the overall length along the top railing through all connections and splices.

<u>Basis of Payment:</u> This work shall be paid for at the contract unit price per foot of BRIDGE FENCE RAILING (SPECIAL), including all connections and cleaning and coating new steel members.

#### TIMBER STRINGER RECREATION BRIDGE (LOCATION 1 AND 2)

<u>Description:</u> This work shall consist of the design, fabrication, storage, delivery and erection of a timber stringer recreation bridge. Also included in this work shall be the furnishing and installation of all headers, straps, clips, bolts, railings, name plates, and miscellaneous items as indicated on the plans.

<u>References:</u> AASHTO LRFD Bridge Design Specifications, current edition and interims AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, current edition American Wood Protection Association (AWPA) Standards, current edition American Wood Council (AWC) National Design Specifications (NDS) for Wood Construction American Institute for Timber Construction (AITC), Timber Construction Manual

<u>Certifications and Submittals:</u> The superstructure shall conform to the clear span, clear width, and railing configuration shown on the contract plans. The design shall be according to the LRFD Guide Specifications for the Design of Pedestrian Bridges.

Prior to beginning fabrication, Structural Engineer's drawings shall be submitted with the Structural Engineer's Seal and Signature as the OWNER's Record Drawings to the Engineer for review and approval. The minimum design live load shall be 90 pounds per square foot and H10 truck loading. All other design loads shall meet the requirements of American Association of State Highway and Transportation Officials LRFD Design Specification standards. The following certification shall be placed on the first sheet of the bridge shop plans adjacent to the seal and signature of the Structural Engineer:

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"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans and complies with the requirements of the Contract and the current 'Guide Specifications for Design of Pedestrian Bridges'."

Storage of Material. Treated timber shall be close-stacked according to Article 1007.13 of the standard specifications.

<u>Materials</u>: Solid sawn timber members shall conform to the requirements of the grading rules agency for the species, type, and grade specified in the plans or special provisions. Glued-Laminated members shall have the trademarks of a third-party inspection agency recognized by the International Accreditation Service, Inc. (IAS) for the combination, species, use, and appearance as specified in the plans or special provisions. A Grading Agency Certification is required on all timber material.

The manufacturer shall be regularly engaged in the production of the specified product or item and be able to furnish independent records or references of competence and satisfaction of this fact upon the request of the Owner.

Lumber and timber shall meet the requirements of AASHTO M168.

Glued laminated timber shall be manufactured in accordance with details shown on the plans and in accordance with the requirements of ANSI-A 190.1, *Structural Glued Laminated Timber*, latest edition using wet use adhesives. Appearance grade will be industrial.

Knotholes and holes from causes other than knots shall be measured and limited as provided for knots. All visible pieces of lumber and timber having knots that are unsightly in appearance shall be rejected. Cluster knots and knots in groups are not permitted.

Only pieces consisting of sound wood free from any form of decay shall be accepted. No piece of exceptionally lightweight shall be accepted.

Lumber and timber shall conform to the dimensions specified for either rough or surfaced stock.

Lumber and timber to be graded as per NFPA National Design Specifications for Wood Construction.

<u>Bearings</u>: The bearings shall be designed and detailed as specified by the bridge manufacturer. Contractor shall not exceed the maximum superstructure depth shown on the plans. Design and materials for connection of superstructure to substructure shall be included in the plans.

Pile bents and abutments. Timber piles shall be southern yellow pine, conforming to ASTM standard D-25 for quality. Specification for size shall be 1" taper in 10 linear feet. Piles are required to be driven to refusal and no less than 10-ft. Hand auguring and jetting are not approved pile installation methods. Contractor to refer to geotechnical investigation report, to assist in determining the proper depth of the pilings. If proper bearing capacity is not met at the minimum pile depth, pilings shall be spliced and driven until proper bearing is achieved. All standard splices must provide engineers calculations and stamp.

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All work involving piles shall be according to Section 512 of the standard specifications. Cut-offs shall be made accurately to ensure complete bearing between the cap and piles, or good alignment of the tops of wing piles. No shimming between pile tops and caps will be permitted, except to provide for adjustment of not more than 1 in. (25 mm) required on account of errors in cut-off. The shim for this purpose shall consist of a single square steel plate of the proper thickness, having the same width as the cap, punched 1/16 in. (2 mm) larger than the drift bolt. The piles for any one bent or line shall be selected carefully as to size, to avoid undue bending or distortion of the bracing or backing timbers. Care shall be exercised in the distribution of piles of varying sizes to secure the required strength and rigidity throughout the structure.

<u>Caps</u>: Timber caps shall be placed, with ends aligned, in a manner to secure an even and uniform bearing on the tops of the supporting posts or piles. They shall be secured by a drift bolt not less than 3/4 in. (20 mm) in diameter, extending at least 9 in. (225 mm) into each post or pile. The drift bolt shall be as near the center of the post or pile as possible without interfering with rods passing through the post.

<u>Railing:</u> The orientation of the safety rail elements shall be vertical. Vertical safety rails shall have a maximum 5" center to center spacing. Railing shall include a 4" minimum toe rail located no more than 2" clear above the deck. Toe rails shall be designed per AASHTO as horizontal rails.

<u>Hardware:</u> All hardware (machine bolts, carriage bolts, drift pins, lag screws, dowels, rods, nails, spikes, washers, connectors, etc.) shall conform to ASTM 307-97. All hardware shall be hot-dipped galvanized in accordance with AASHTO M111-91.

Unless a Dome Head Bolt or approved equal is used, all bolt heads or tightening nuts in contact with Structural Timber and lumber shall have a washer of sufficient thickness and bearing area to ensure a minimum deformation of the contacted surface when tightened to develop not more than the maximum allowable tensile stress of that bolt

Bolt heads or tightening nuts in contact with metal surfaces shall have a cut washer or approved equal placed between the bolt head or nut and the metal surface.

<u>Preservative Treatment:</u> This section covers the wood preservatives and the preservative treatment of lumber, timber, and posts conforming to the Specifications as referenced or otherwise specified in the plans or special provisions. Temporary bracing shall not require preservative treatment.

Preservative treatment of lumber and timber shall be by the pressure process and be in accordance AWPA Standards and AASHTO Designation M 133.

Lumber and timber used for stingers, diaphragms, deck plank and rail posts shall be pressure treated with Copper Naphthenate in AWPA P9 Type A Hydrocarbon Solvent with retentions to meet AWPA UC4B or an approved equivalent.

Lumber used for safety railing and cap rail shall be treated with a waterborne preservative meeting the requirements of AWPA UC3B.

Unless otherwise directed by the Engineer the material shall be graded prior to treatment. Material shall be accepted after treatment on the basis of its condition prior to treatment, on the basis of

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inspection of the treatment procedure substantiated by plant records, on the condition of the material after treatment and on absorption, penetration and visual inspection.

So far as practicable all adazing, boring, chamfering, framing, gaining, mortising, surfacing and general framing, etc., shall be done prior to treatment. If cut after treatment, coat cut surfaces according to AWPA M4.

All Douglas Fir and other species that are difficult to penetrate shall be incised prior to treatment.

Name Plates: One (1) name plate shall be provided for each Timber Bridge (2 Total). These are the manufacturer name plates and will not be paid for separately. Plate shall include design loading, weight, manufacturer and year built.

<u>Quality Assurance</u>: All material shall be well manufactured. All lumber and timber shall be straight, well sawed, sawed squared at ends and have opposite surfaces parallel unless otherwise required by the plans and specifications.

<u>Workmanship</u>: Workmanship shall be first class throughout. Nails and spikes shall be driven with sufficient force to set the heads flush with the surface of the wood, thus ensuring the surface shall be free from deep or frequent hammer marks. Proper pre-drilling of holes for screws, nails, spikes, lags or bolts where necessary to avoid splitting of timber will be required.

<u>Construction:</u> Lumber and timber shall be handled with sufficient care to avoid breaking through portions penetrated by treatment, and thereby exposing untreated wood. Chains, peavies, cant hooks, pickaroons, timber dogs, pike poles and other pointed tools that would burr, blemish, penetrate or permanently deform the contacted member shall not be used. Rope, rubber or fabric slings only shall be used. The timber stringer structure shall be erected in strict conformance with the Licensed Structural Engineer's signed and sealed drawings and the manufacturer's instructions.

The timber structure shall be erected to have a smooth transition with the adjacent boardwalks and shall be accessible as defined by the Illinois Accessibility Code. The walking surface shall have a permanent skid resistance free of sharp corners.

Bridge contractor will perform all work from the deck level. All foot traffic will be contained within six feet from boardwalk path. Bridge contractor will clean up each bridge work site daily, and the contractor shall provide the appropriate dumpster for material removal.

<u>Method of Measurement:</u> This work will be measured for payment in place and the area computed in square foot. The width used in computing the area will be the timber bridge clear width (12-ft). The length used in computing the area will be the distance between centerline of piles to centerline of piles. Hardware will not be measured for payment but included in the cost of the Timber Stringer Recreation Bridge.

<u>Basis of Payment:</u> This work will be paid at the contract unit price per square foot for TIMBER STRINGER RECREATION BRIDGE (LOCATION 1 AND 2) which shall include all labor and materials necessary to complete this work.

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#### **BOARDWALK STRUCTURE**

<u>Description</u>: This work shall consist of the design, fabrication, storage, delivery and erection of a boardwalk structure supported by piling over wetlands to the widths, lines, and grades shown on the Drawings. Also included in this work shall be the furnishing and installation of all headers, straps, clips, bolts, railings, and miscellaneous items as indicated on the plans.

<u>Certification and Submittals:</u> The boardwalk shall conform to the clear span, clear width, and railing configuration shown on the contract plans. The design shall be according to the LRFD Guide Specifications for the Design of Pedestrian Bridges.

The boardwalk structure shall be designed by an Illinois Licensed Structural Engineer. Prior to beginning fabrication, the Structural Engineer's drawings shall be submitted with the Structural Engineer's Seal and Signature as the OWNER's Record Drawings. The minimum design live load shall be 90 pounds per square foot and H10 truck loading. All other design loads shall meet the requirements of American Association of State Highway and Transportation Officials LRFD Design Specification standards. The following certification shall be placed on the first sheet of the bridge shop plans adjacent to the seal and signature of the Structural Engineer:

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans and complies with the requirements of the Contract and the current 'Guide Specifications for Design of Pedestrian Bridges'."

<u>Storage of Materials:</u> Treated timber shall be close-stacked according to Article 1007.13 of the standard specifications.

<u>Pile Bents and Abutments:</u> Timber piles shall be southern yellow pine, conforming to ASTM standard D-25 for quality. Specification for size shall be 1" taper in 10 linear feet. Piles are required to be driven to refusal and no less than 10-ft. Hand auguring and jetting are not approved pile installation methods. Contractor to refer to geotechnical investigation report, to assist in determining the proper depth of the pilings. If proper bearing capacity is not met at the minimum pile depth, pilings shall be spliced and driven until proper bearing is achieved. All standard splices must provide engineers calculations and stamp.

All work involving piles shall be according to Section 512 of the standard specifications. Cut-offs shall be made accurately to ensure complete bearing between the cap and piles, or good alignment of the tops of wing piles. No shimming between pile tops and caps will be permitted, except to provide for adjustment of not more than 1 in. (25 mm) required on account of errors in cut-off. The shim for this purpose shall consist of a single square steel plate of the proper thickness, having the same width as the cap, punched 1/16 in. (2 mm) larger than the drift bolt. The piles for any one bent or line shall be selected carefully as to size, to avoid undue bending or distortion of the bracing or backing timbers. Care shall be exercised in the distribution of piles of varying sizes to secure the required strength and rigidity throughout the structure.

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<u>Caps</u>: Timber caps shall be placed, with ends aligned, in a manner to secure an even and uniform bearing on the tops of the supporting posts or piles. They shall be secured by a drift bolt not less than 3/4 in. (20 mm) in diameter, extending at least 9 in. (225 mm) into each post or pile. The drift bolt shall be as near the center of the post or pile as possible without interfering with rods passing through the post.

<u>Railing:</u> The orientation of the safety rail elements shall be vertical. Vertical safety rails shall have a maximum 5" center to center spacing. Railing shall include a 4" minimum toe rail located no more than 2" clear above the deck. Toe rails shall be designed per AASHTO as horizontal rails.

<u>Materials</u>: All bridge material and construction shall be marine grade. All sawn lumber shall be southern pine and graded under the southern pine inspection bureau (SPIB) rules. All sawn lumber shall be grade No. 2 or better, S4s (surface four sides). Splices of structural members may only be made over supports. Splices between supports are prohibited. Exposed corners shall be beveled/ routered and sanded to remove splinters/ sharp edges. Lumber and timber shall meet the requirements of AASHTO M168.

Decking shall be butted tightly board to board to allow for board shrinkage after deck construction. Decking to be attached with 303 stainless steel or better, screw recessed ½" below deck surface. No splices shall be allowed for bridge decking. Pre-drill and countersink deck screws prior to installation.

<u>Hardware:</u> All hardware shall be ASTM A307 steel, all associated washers and nuts, hot dipped galvanized per AASHTO Specification M-232. After fabrication, all steel shapes shall be hot dipped galvanized per AASHTO specification M-111. All welding to be per AWS specifications.

<u>Construction Requirements:</u> The boardwalk shall be erected in strict conformance with the Licensed Structural Engineer's signed and sealed drawings and the manufacturer's instructions.

The boardwalk shall be erected to have a smooth transition with the concrete approach slabs and shall be accessible as defined by the Illinois Accessibility Code. The walking surface shall have a permanent skid resistance free of sharp corners.

Bridge contractor will perform all work from the deck level. All foot traffic will be contained within six feet from boardwalk path. Bridge contractor will clean up each bridge work site daily, and the contractor shall provide the appropriate dumpster for material removal.

<u>Method of Measurement:</u> This work will be measured for payment in place and the area computed in square foot. The width used in computing the area will be the boardwalk clear width (12-ft). The length used in computing the area will be the distance between centerline of piles to centerline of piles. Hardware will not be measured for payment but included in the cost of the boardwalk.

<u>Basis of Payment:</u> Boardwalk will be paid at the contract unit price per square foot for BOARDWALK STRUCTURE which shall include all labor and materials necessary to complete this work.

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#### **BIAXIAL GEOGRID**

<u>Description:</u> This work shall consist of all labor, equipment and materials required to install biaxial geogrid reinforcement on the pavement subgrade.

Subgrade preparation shall include the removal of unsuitable surface conditions including pavement materials, vegetation, high organic content topsoil, root matter and other deleterious conditions which may be encountered. The subgrade soils (including soils in the conduit trenches) shall be proof-rolled and the soils compacted to a minimum of 95% compaction based on the standard proctor, AASHTO T-99 or ASTM D-698, within 1.0 foot of the surface. Proof-rolling and compaction will not be paid for separately but will be considered as an incidental expense.

The area will be proof-rolled under the supervision of the Engineer. When proof-rolling reveals unstable soil conditions, these locations shall be stabilized either by REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL and AGGREGATE SUBGRADE IMPROVEMENT or with BIAXIAL GEOGRID. REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL and AGGREGATE SUBGRADE IMPROVEMENT will be paid for separately.

Biaxial geogrid reinforcement shall consist of a regular network of integrally connected polymer tensile elements with aperture geometry (apertures > 0.25 inches) sufficient to permit significant mechanical interlock with the surrounding soil, aggregate, or other material. The structure of the geogrid reinforcement shall be dimensionally stable and able to retain its geometry under construction stresses and have high resistance to damage during construction, to ultraviolet degradation, and to all forms of chemical and biological degradation encountered in the soil being reinforced. The minimum rib thickness shall be 1.25 mm.

The Contractor shall provide submittals for review and approval prior to installation. Contractor shall provide the written manufacturer's certification that geogrid manufactured from polypropylene (PP) or polyethylene (HPDE) are capable of withstanding direct exposure to sunlight for 500 hours with a minimum strength retained of 70 percent as measured per ASTM D4355. Geogrid shall provide an ultimate tensile strength of 25 kN/m as measured per ASTM D6637.

The biaxial geogrid shall be delivered to the jobsite in roll form with each roll individually identified and nominally measuring a minimum 12' in width. The product shall be installed per manufacturer specifications.

The quantity provided is for estimating purposes only, and adjustments to unit prices will not be allowed based on actual quantities.

<u>Basis of Payment:</u> This work shall be paid for at the contract unit price per square yard for BIAXIAL GEOGRID which price includes all labor, equipment and materials necessary to perform the work as specified.

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#### REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

<u>Description:</u> Subgrade preparation shall include the removal of unsuitable surface conditions including pavement materials, vegetation, high organic content topsoil, root matter and other deleterious conditions which may be encountered. The subgrade soils (including soils in the conduit trenches) shall be proof-rolled and the soils compacted to a minimum of 95% compaction based on the standard proctor, AASHTO T-99 or ASTM D-698, within 1.0 foot of the surface. Proof-rolling and compaction will not be paid for separately, but will be considered as an incidental expense.

The area will be proof-rolled under the supervision of the Engineer. When proof-rolling reveals unstable soil conditions, these locations shall be stabilized either by REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL and AGGREGATE SUBGRADE IMPROVEMENT or with BIAXIAL GEOGRID. AGGREGATE SUBGRADE IMPROVEMENT and BIAXIAL GEOGRID will be paid for separately. Removal and disposal of all surplus, unstable and unsuitable materials and organic waste below the design sub-grade shall be performed in such a manner that public or private property will not be damaged or endangered. Removal and Disposal of Unsuitable Material shall conform to applicable portions of Section 202 of the IDOT Standard Specifications.

The quantity provided is for estimating purposes only, and adjustments to unit prices will not be allowed based on actual quantities.

<u>Basis of Payment:</u> This work shall be paid for at the contract unit price per cubic yard for: REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, which price includes all labor, equipment and materials necessary to perform the work as specified.

# **CHAIN LINK FENCE REMOVAL (SPECIAL)**

<u>Description</u>: Chain link fence removal shall consist of removal and proper disposal offsite, including removal and disposal of pole foundations. The removals shall be according to the locations and lengths noted in the plans. The removals shall be completed such that the chain link fabric ends cleanly at an existing pole location. The limits of the removals shall be verified in the field with the Engineer prior to beginning this work. This work shall also include backfill of the removed foundations.

<u>Basis of Payment:</u> This work shall be paid for at the contract unit price per linear foot for CHAIN LINK FENCE REMOVAL (SPECIAL) which price includes all labor, equipment and materials necessary to perform the work as specified.

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#### **CLEARING & GRUBBING**

<u>Description:</u> This work includes clearing and grubbing throughout the entire trail corridor. Please note that according to the Review for Endangered Species Act – Section 7, due to the potential presence of the Indiana bat and the Northern long-eared bat within the project area, trees larger than three (3) inches DBH shall not be cleared from April 1 through September 30 in order to avoid potential impacts to those species. Therefore, all clearing and grubbing shall be performed to meet those time period requirements in order to meet the Section 7 signoff requirements.

Please also note that generally only trees six (6) inches DBH or greater are shown on the plans. All existing trees less than six (6) inches DBH within the noted limits of clearing shall be cleared as part of clearing and grubbing.

<u>Materials:</u> This work shall consist of the removal of all living and downed trees less than six (6) inches DBH and removal of brush, including roots and stumps of trees and brush, to facilitate grading operations. Clearing and grubbing shall consist of the removal of all tree, shrub and vine species within designated areas of the project in a manner governed under this specification. All woody material including roots generated from clearing and grubbing work shall require removal and disposal as required by Article 202.03 of the Standard Specifications, the removal of which is not otherwise provided for in Section 501 of the Standard Specifications for Road and Bridge Construction.

The clearing and grubbing of all trees, shrubs and vines may be performed with chainsaws, clearing saws, low ground pressure excavator, bulldozer, forestry vehicle; forestry tractors or tracked skid steer, tracked timber harvester, or tracked feller-buncher for cutting and moving brush. All other operator mechanized equipment applicable for cutting trees and shrubs shall only be permitted upon approval from the OWNER.

<u>Basis of Payment:</u> Clearing and grubbing areas are generally noted on the plans, but final clearing areas may vary in order to complete the various project items. This work shall not be paid for separately but shall be included in the cost of the various items in this contract. This work shall include all materials, equipment, and labor necessary to complete the removal work, which shall also include disposal offsite.

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# TREE REMOVAL (OF THE DIAMETER SPECIFIED)

<u>Description:</u> This work shall include providing all labor, materials, equipment, and tools necessary for tree removal and disposal of materials. The tree removals are generally noted on the engineering plans. This work shall be done in accordance with Section 201 of the Standard Specifications.

The diameter of trees shown on the plans indicate the tree DBH at the time of the survey in late 2016. Additionally, trees that were less than six (6) inches DBH at the time of survey may not be indicated on the plans, but they shall be removed if they are in the location of the proposed trail or in close proximity to other surveyed trees that are marked for removal. The Contractor shall verify all trees to be removed with the Owner or Engineer prior to removal, including those noted for removal on the plans.

Please note that according to the Review for Endangered Species Act – Section 7, due to the potential presence of the Indiana bat and the Northern long-eared bat within the project area, trees larger than three (3) inches DBH shall not be cleared from April 1 through September 30 in order to avoid potential impacts to those species. Therefore, all clearing and grubbing shall be performed to meet those time period requirements in order to meet the Section 7 signoff requirements.

Basis of Payment: This work shall be paid for at the contract unit price per unit for TREE REMOVAL (6 TO 15 UNITS DIAMETER) and per unit for TREE REMOVAL (OVER 15 UNITS DIAMETER). The payment amount shall reflect the actual diameter of trees removed at the time of removal and not necessarily the diameter indicated on the plans. All trees six (6) inches DBH or greater shall be paid for under this item, including those not shown on the existing conditions survey that have been approved by the Owner or Engineer for removal. This payment shall include all materials, equipment, and labor necessary to complete the removal work, which shall also include disposal offsite. The quantity provided is for estimating purposes only. Adjustments will not be made to the unit price based on the actual final quantities.

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#### **NON-SPECIAL WASTE DISPOSAL**

<u>Description:</u> This work shall be in accordance with Article 669 of the Standard Specifications and the following. This work shall consist of the satisfactory disposal of any non-special waste encountered during construction. It is anticipated that the excavation within the abandoned railroad embankment areas (stations 115+00 through 140+76) will not meet CCDD requirements. This excavated material may remain onsite in the areas noted for fill on the plans. However, surplus material shall be disposed of offsite. The disposal of the material shall be compensated for as CONTAMINATED WASTE DISPOSAL which shall be payment in addition to EARTH EXCAVATION, SPECIAL. Sampling, testing, and documenting locations of contaminated material shall be compensated for as SOIL DISPOSAL ANALYSIS.

The Owner reserves the right to increase or reduce the quantity or to delete this pay item from the Contract. The Contractor is not entitled to compensation for any changes in quantities for this pay item.

Excavated material shall be considered non-special waste after one (1) of the following conditions are met:

- a. The Contractor's "clean-fill" dump facility rejects individual load of excavated material. The Contractor shall provide the Engineer with the CCDD Load Rejection Form.
- b. A Contractor-employed environmental consultant performs on-site sampling and discovers areas of contamination. In this situation, the Engineer shall coordinate with the Owner to determine acceptable limits of the contamination. The Owner reserves the right to independently perform their own soil tests. The cost for the Contractor-employed environmental consultant shall be paid for separately under SOIL DISPOSAL ANALYSIS.

The Contractor shall provide the Non-Special Waste Tracking Receipt / Manifest and the Weight Ticket with tonnage to the Engineer for each load of Non-Special Waste. These items shall include the truck number and date.

<u>Basis of Payment:</u> Regardless of actual quantity, this work shall be paid for at the Contract unit price per cubic yard for NON-SPECIAL WASTE DISPOSAL, which price shall be considered full compensation for all coordination, handling, transportation, and disposal fees necessary for the disposal of all non-special waste material.



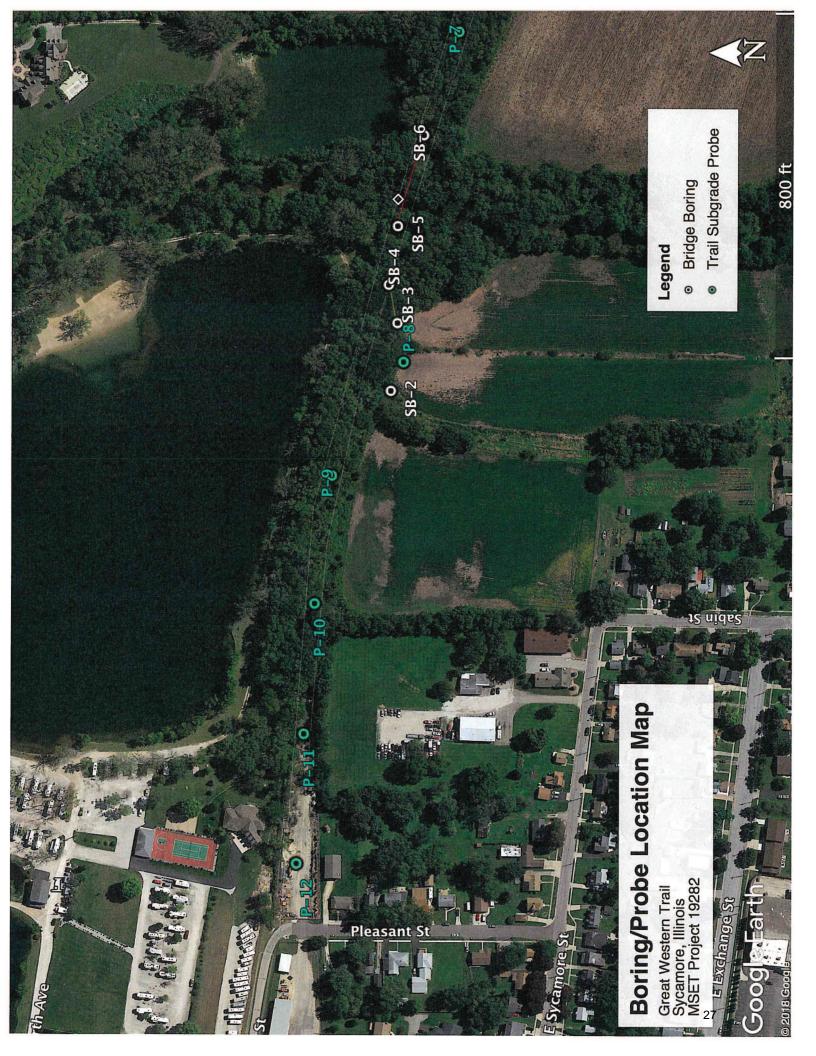


Table 1 - Soil Probe Summary and Recommendations Great Western Trail - Sycamore, IL

Recommended Treatment	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 4		Note 1	Note 5	Note 5	Note 5	Note 5	Note 1	Note 1	Note 2		Note 3	
Static Cone Strength, psi	300+	300+	300+	300+	300+	300+	300+	1.51 tsf Qu		N=11 bpf	N=4 bpf	N=5 bpf	300+	N=5 bpf	300+	300+	Aggregate Base		Aggregate Base	1
Soil Moisture Content, %	10	14	13	13	10	9	2	12		2	27	6	11	15	11	11	15		7	
Subgrade Soil Description	FILL: Brown & Dark Brown LOAM, A-2-4	FILL: Black LOAM, A-2-4 with Gravel & Cinders	FILL: Black LOAM, A-2-4 with Gravel & Cinders	FILL: Black LOAM, A-2-4 with Cinders	FILL: Black, Grey, & Brown Sandy CLAY, A-6		FILL: Black SAND, Cinders, A-1-a	Off Embankment: Dark Grey Sandy LOAM, A-2-4	Off Embankment: Brown SAND, A-3	Off Embankment: Black LOAM, A-2-4 with Gravel	Off Embankment: Dark Grey Sandy LOAM, A-2-4	FILL: Black LOAM, A-2-4 with Gravel & Cinders	FILL: Black LOAM, A-2-4 with Gravel, Concrete Pieces, & Cinders	8" of Crushed Stone over layered stone & Black Clay (8" to 16")	with Auger Refusal on Large stone at 16" depth.	8" of Bituminous Pavement & Crushed Stone, with large stone a	8" depth			
Topsoil/Roots Thickness, In.	4	2	2	11	4	5	2		Kishwaukee River		12	13	9	15	S	2	NA		AN	
Location	P-1	P-2	P-3	P-4	P-5	P-6	P-7	SB-6	Kishwau	SB-5	SB-4	SB-3	P-8	SB-2	6-d	P-10	P-11		P-12	

Votes:

1. Remove upper rooted zone, then compact exposed subgrade soil.

2. Remove Black CLAY where exposed at subgrade depth, compact base prior to installing new materials.

3. No subgrade treatment anticipated.

4. Use 6 inches of additional base stone, verify during construction.

5. Saturated subgrade condition are anticipated, undercut 12 inches, use fabric and 12 inches additional base aggregate.

MSET I	PROJECT	NO.: 19282	LOG OI	<u>F BORI</u>	NO	<u>ON 6</u>	. S	B-2			Pa	age 1 of 2
PROJE	CT:	Great	Western Trail		_	SITE	LOC	IOITA	N:		Sycamore,	Illinois
BORIN	G LOCA	TION:Str	ucture 2, SE Abut	ment	_	CLIEN	NT: _		En	gineer	ing Resourse	Associates
						S	AMPLI	E		TE	STS	
DEPTH (feet)	SOIL	Materi	al Description		Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	%c%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
0		Black CLAY, A	4-6 Topsoil (15")	82	26.5							
		z moist	ndy LOAM, A-2-4	.,	25.3	-	1	5	15			
4 –		Brown SAND medium dense Clay Loam sea		1-α,	24.0 22.5	- -ss	2	12	11			
-						SS	3	11	14			
8 –												
-						- SS	4	11	19			
12 –		Grey SAND ar medium dense	nd GRAVEL, A-1-	-a, 8	15.5	ss	5	21	15			
						- - SS	6	13	13			
16 –					10.0	SS	7A	12	9			
-		Grey Clay LOA	AM, A-6, very sti	iff 8	10.0	_	7B	9	12	123	2.21	
20 -						SS	8	11	11		2.25 Qp	
-						SS	9	13	11		2.5 Qp	
24 –						-ss	10	13	14			
-						SS	11	10	12		2.25 Qp	
28 -						- - SS	12	15	14		2000	
_						33	12	10			2.0 Qp	##1400
		BSERVATIONS, ft.	✓ 25:	AND	\						STARTED:	7/11/19
IMMED		IG: AFTER DRILLING: ING AFTER	2.5' 3.0'		$V_{\rm N}$	ISET	Γ		LO	GGED	COMPLETED BY: METHOD:	GPF HSA

MSET I	PROJEC	CT NO.:	19282	LOC	G OF BOF	RINC	3 NO	. S	B-2			Pa	age 2 of 2
PROJE	CT: _		Great	Western Tra	ail		SITE	LOC	IOITA	N:		Sycamore,	Illinois
BORIN	G LOC	ATION: _	Str	ucture 2, SE	Abutment		CLIEN	NT: _		Er	gineer	ing Resourse	Associates
						_	S	AMPL				STS	
DEPTH (feet)	SOIL		Materia	al Description		Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	%°M	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
-		Grey	Clay LOA	AM, A-6, ve	ry stiff	795.5	-						
32			intermitte	nd GRAVEL ent clay sea	., A-1-a, ms, medium	794.5	- SS -	13	11	11			
40 _							- - SS	14	10	12			
				at 40 Feet		786.5							
DURING IMMEDI	DRILLII	OBSERVAT NG: AFTER DRIL DING AFTER	LLING:	₹ 2.5' ₹ 3.0'		$\mathbf{N}_{\mathrm{M}}$	ISET	7		BOF	RING C	STARTED: COMPLETED: BY: METHOD:	7/11/19 7/11/19 GPF HSA

MSET I	PROJEC	T NO.: 19282	OF BOI	RINC	<b>G NC</b>	). S	<b>B-3</b>			Pa	age 1 of 2	
PROJE	CT: _	Great							N:		Sycamore	, Illinois
BORIN	G LOC	ATION: West	Abutment, St	ructure #3		CLIE	NT:		Er	gineer	ing Resourse	Associates
						S	AMPL	E		TE	STS	
DEPTH (feet)	SOIL	Materi	al Description		Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	%c%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
0		Black Silty CL	AY, Topsoil (	13")	826.0							
-		Brown (f-m) S dense moist — clay seam at 2		ghtly	824.9 823.5	- 00	1	5	9	i		
4 –		Brown SAND slightly to med	and GRAVEL,	A-1-a,	823.0	-ss	2	8	12			
-						SS	3	9	12			
8-						- - - SS	4	7	11			
-								·				
12 -		clay seam at 1	12.5'		813.5	_SS _	5	17	13			
-		cobbles 15 to	17 feet		811.0	SS	6	19	4			
16 -		0000103 10 10	17 1001		01110	SS	7	15	8			
-		Grey Clay LOA	AM, A-6, very	stiff	807.0	SS	8	15	11			
20 -						SS	9	17	12		2.60	
24 –						-	10	40	10		0.07	
24 -		sand seam at	25 feet		801.0	-ss	10	18	12		2.37	
28 –						SS	11	13	13		1.82	
-					- SS	12	12	12	127	2.02		
WATER	LEVEL	OBSERVATIONS, ft.					BOI	RING	STARTED:	7/12/19		
DURING IMMEDI	DRILLI ATELY		₹ 3.5' ₹ 4.0'		$\mathbb{N}_{\mathbb{N}}$	1SET	Γ		BOI LO	RING (	COMPLETED	populate Unicariantes

MSET I	PROJEC	CT NO.: 19282	LOG OF BO	DRIN	G NC	). S	B-3			Pa	age 2 of 2
PROJE	CT: _	Grea	it Western Trail		SITE	LOC	ATIOI	N:		Sycamore,	Illinois
BORIN	G LOC	ATION: Wes	st Abutment, Structure #.	3	CLIE	NT:		Er	ıgineer	ing Resourse	Associates
					5	AMPL	E		TE	STS	
DEPTH (feet)	SOIL	Mate	rial Description	Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	%c%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
32 -		Grey Clay LO	OAM, A-6, very stiff	795.	o- - -						
36 –		Sand seam a	t 34.5 feet	791.	- SS 5	13	13	11		3.0 Ор	
-		Grey SAND a slightly dense	and GRAVEL, A-1-a, e	789.	_						
40 _					- SS	14	8	11			
		End of Boring	; at 40 Feet	786.							
DURING IMMEDI	DRILLI	OBSERVATIONS, ft ING: AFTER DRILLING: DING AFTER	<del>□</del> 3.5' <del>□</del> 4.0'		MSE'	Γ		BOI LO	RING (	STARTED: COMPLETED BY: METHOD:	7/12/19 7/12/19 GPF HSA

MSET	PROJECT	NO.: 19282	LOG OF BO	DRIN	GNO	). S	<b>B-4</b>			Pa	age 1 of 2
PROJE	CT:	Great	Western Trail		SITE	LOC	ATIO	N: _		Sycamore	, Illinois
BORIN	G LOCA	ATION: <u>East</u>	Abutment, Structure #	3	CLIE	NT:		Eı	ngineer	ing Resourse	Associates
					S	AMPL	.E		TE	STS	
DEPTH (feet)	SOIL	Materia	al Description	Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	%c%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
0		Black Silty CL	AY Topsoil (12")	831.	5						
_	¥	Dark Grey San	dy LOAM, A-2-4, loo	se <sup>830.</sup>	ss	1	4	27			
4 -		Z Brown SAND a medium dense	and GRAVEL, A-1-a,	828.	-SS	2	10	14			
-			d GRAVEL, A-1-a, , with intermittent cla	826. ay	SS	3	13	14			
8 -		Grey Clay LOA	M, A-6, very stiff	823.	- SS	4	11	18		2.83	
12 –		Grey SAND an medium dense	d GRAVEL, A-1-a,	821.	ss _	5	13	19			
					- - SS	6	13	15			
16 -					SS	7	13	10			
20 -		Grey Clay LOA	M, A-6, stiff	812.	SS	8A 8B	28 9	11 12	125	1.24	
-					SS	9	9	12	125	1.32	
24 – -					- -ss	10	7	12		1.16	
					SS	11	6	13		0.70	
28 -					- - SS	12	4	12		1.0 Qp	
DURING IMMEDI	DRILLING	BSERVATIONS, ft. G: FTER DRILLING: NG AFTER	\( \frac{\rightarrow}{\rightarrow} \) 2.5' \( \frac{\rightarrow}{\rightarrow} \) 3.5' \( \frac{\rightarrow}{\rightarrow} \)		ASE:	Γ		BOI LO	RING C	STARTED: COMPLETED BY: METHOD:	7/12/19 7/12/19 GPF HSA

MSET	PROJEC	CT NO.:	LOC	G OF BOI	G NC	). S	B-4			Pa	age 2 of 2		
PROJE	ECT: _		Great	Western Tra	ail		SITE	LOC	ATIO	V: _		Sycamore	, Illinois
BORIN	IG LOC	CATION:	East	Abutment, S	Structure #3		CLIE	NT:		Er	igineer	ring Resourse	Associates
						L		AMPL				STS • +	
DEPTH (feet)	SOIL		Materi	al Description		Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	%2W	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
32 -		Grey	y SAND, A	A-3, medium	dense	799.5	_						
-							- - SS	13	10	12			
36 -		Grev	/ SAND ar	nd GRAVEL,	۸ 1 2	794.5	_						
-			ium dense		A-1-a,	704.0	B.						
40 _							SS	14	10	12			
WATER	I EVE			at 40 Feet		791.5				POL	DINIC	TARTED.	7/12/10
DURING IMMEDI	DRILLI			₹ 2.5' ₹ 3.5'		$\mathbf{N}_{\mathbf{N}}$	ISET			BOF LOG	RING C	STARTED: COMPLETED: BY: METHOD:	7/12/19 7/12/19 GPF HSA

MSET F	PROJEC	CT NO.: 19282	LOG	OF BOR	RINC	<b>GNC</b>	). S	B-5			Pr	age 1 of 3
PROJE	CT: _	Great	Western Trail						N:		Sycamore	
BORIN	G LOC	ATION: West	Abutment, St	tructure #4		CLIE	NT:		Er	ıgineer	ring Resourse	Associates
						S	AMPL			TE	ESTS	
DEPTH (feet)	SOIL	Materi	al Description		Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
0		FILL: Black SA	ND, Cinders,	, A-1-a	832.0							
_		FILL: Brown S.  1-a, slightly de	ense ey, & Black C		831.0 830.0	1. 1	1A 1B	11 12	2 17			
4 -		FILL: Black SA a, medium der	ND and CINE	DERS, A-1-	828.5	-ss	2	9	6			
-		FILL: Brown C Black CLAY, A			826.5 825.5	SS	3A 3B	6 8	19 33		1.25 Qp	
8 –		Dark Grey San	ıdy Clay LOA	M, A-6,	824.0	- SS	4	5	24	87	0.54	
-		Grey LOAM, A	1-2-4 slightly	, dense	821.5				24	0,	0.54	
12 –	1 - 1	<u>V</u>	r 2 - i, ongite,	dollad		SS	5	5	9			
		Grey Sandy LC intermittent cla dense			819.0	- SS	6	16	18			
16 –		Grey SAND an medium dense		A-1-a,	815.0	SS	7	7	20			
20 –		mediam dense				- SS	8	15	11			
_						SS	9	13	16			
24 –		Brown SAND,	A-3, medium	ı dense	809.0	-ss	10	11	13			
28 –						SS	11	12	12			
-		Grey Clay LOA	802.0	- SS	12	18	11					
WATER	LEVEL (	OBSERVATIONS, ft.						$\top$	BOF	RING S	STARTED:	7/12/19
	ATELY A	NG: AFTER DRILLING: DING AFTER	\(\frac{}{\equiv}\) 12.5' \(\frac{}{\equiv}\) 12.0'		$\mathbb{N}_{N}$	1SET	7		BOR LOG	RING C	COMPLETED:	7/12/19 GPF HSA

MSET I	PROJEC	CT NO.: 19282	LOG OF BOI	RIN	G NC	). S	B-5			Pa	age 2 of 3
PROJE	CT: _	Great	Western Trail		SITE	LOC	ATIO	N:		Sycamore	, Illinois
BORIN	G LOC	CATION: Wes	t Abutment, Structure #4		CLIE	NT:		Er	igineer	ing Resourse	Associates
DEPTH (feet)	SOIL	Mater	ial Description	Elevation	TYPE/ INTERVAL SO	AMPL ON	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
32 -		Grey Clay LO	AM, A-6 ent silt seams, very stiff		_						
36 -					- SS	13	8	13		0.85	
40 -		Brown SAND, dense	A-3, medium dense to	792.5	- SS	14	11	12		1.5 Qp	
- 44 — - -					- - -SS	15	9	16			
48 <del>-</del> - -					- - SS	16	16	14			
52 <del>-</del>					- - - SS	17	28	11			
56 -											
60 –					SS	18	39	12			
DURING IMMEDIA	DRILLII	OBSERVATIONS, ft. NG: AFTER DRILLING: DING AFTER	\( \frac{\rightarrow}{\rightarrow} \) 12.5' \( \frac{\rightarrow}{\rightarrow} \) 12.0' \( \frac{\rightarrow}{\rightarrow} \)	$\mathbf{D}_{\mathrm{M}}$	ISET	3		BOR LOG	RING C	TARTED: OMPLETED: BY: IETHOD:	7/12/19 7/12/19 GPF HSA

MSET	MSET PROJECT NO.: 19282 LOG OF BORING NO. SB-5				B-5			Pa	age 3 of 3		
PROJE	CT: _	Great	Western Trail		SITE	LOC	ATIO	N:		Sycamore	, Illinois
BORIN	G LOC	CATION: West	Abutment, Structure	#4	CLIE	NT:		Er	igineer	ing Resourse	Associates
DEPTH (feet)	SOIL	Materia	al Description	Elevation	TYPE/ INTERVAL	AMPL ON	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
64 –		Brown SAND,	A-3, dense	770.0	- SS	19	45	17			
68 -			vn & Grey Sandy medium dense	765.0	- SS	20	25	14			
72 - - -					- - - SS	21	16	12			
76 -					- - - SS	22	24	8			
80 -		Grey LOAM, A	-2-4, hard to very h	ard <sup>752.0</sup>	-						
84 <del>-</del> - - -					-SS -	23	36	9			
88 –		End of Boring a	at 90 Feet	742.0	- - SS	24	68	8			
DURING IMMEDIA	DRILLII ATELY	OBSERVATIONS, ft. NG: AFTER DRILLING: DING AFTER	12.5' 12.0'	M <sub>N</sub>	4SET			BOF LOG	RING C	TARTED: OMPLETED: BY: METHOD:	7/12/19 7/12/19 GPF HSA

MSET	PROJEC	T NO.: 19282	LOG	OF BOI	RIN	G NC	). S	<b>B-6</b>			Pa	age 1 of 3
PROJE	CT: _	Great	Western Trail		SITE	LOC	ATIO	N: _		Sycamore	, Illinois	
BORIN	G LOC	ATION: <u>East</u>	Abutment, St	ructure 4		CLIE	NT:		Er	ıgineer	ing Resourse	Associates
						S	AMPL	.E		TE	STS	
DEPTH (feet)	SOIL	Materia	al Description		Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
0		Fill: Black, Gre		Sandy	834.5							
-		CLAY, A-6, sti	iff			SS	1	9	12	108	1.51	
4 -		Concrete Debr Auger Refusal,			830.5	-ss	2	50/ 4"				Concrete Debris No Recovery
8 –						SS	3	4	14		1.5 Ор	
-		FILL: Black SA 1-a, slightly de	ense			- 00	4	4	17			
12 –		Dark Grey Clay  Fibers, soft, m  ✓	oist		824.0	SS	5	2	32		0.25 Qp	
-		■ Brown SAND a medium dense		A-1-a,	821.5	- SS	6	18	7			
16 -		Grey Clay LOA intermittent sa			819.0	SS	7	13	18		2.5 Qp	
20 -		Brown SAND a medium dense	5	A-1-a,	816.5	- SS	8	21	11			
-						SS	9	23	15			
24 <del>-</del>			810.0	-SS	10	68/ 10"	12					
-					SS	11	33	15				
28 –			- SS	12A	12	18						
_		Grey Clay LOA intermittent sa			805.5		12B	18	12		3.25 Qp	
DURING IMMEDIA	DRILLIN	OBSERVATIONS, ft. NG: AFTER DRILLING: NNG AFTER	□ 13.0' □ 11.5' □ 11.5'		$\mathbb{D}_{N}$	(SE)	7		BOF LOG	RING C	TARTED: OMPLETED: BY: METHOD:	7/11/19 7/11/19 GPF HSA

MSET	PROJECT NO.: 19282 LOG OF BORIN  ECT: Great Western Trail				RINC	3 NC	). S	B-6			Pa	age 2 of 3
PROJE	CT: _	Great	Western Tra	ail		SITE	LOC	ATIO	N: _		Sycamore	, Illinois
BORIN	G LOC	ATION: <u>East</u>	Abutment,	Structure 4		CLIE	NT: _		Er	igineer	ing Resourse	Associates
DEPTH (feet)	SOIL	Materi	al Description		Elevation	TYPE/ INTERVAL	ON.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined O Compressive Strength, tsf	REMARKS
32 -		Brown SAND, intermittent sa			803.0	-						
36 -						- SS  -	13	10	21			
40 -						- SS	14	27	20			
44 -						- -ss	15	15	15			
48 – -						- - - SS	16	24	13			
52 <del>-</del>					-	- - SS	17	27	12			
56 - - - - - -		to fine sand, d	ense	7	777.5	- - - SS	18	38	16			
DURING IMMEDIA	DRILLIN	OBSERVATIONS, ft. NG: AFTER DRILLING: DING AFTER	□ 13.0' □ 11.5' □ 11.5'			ISET			BOF LOG	RING C	TARTED: OMPLETED: BY: METHOD:	7/11/19 7/11/19 GPF HSA

MSET PROJECT NO.: 19282 LOG OF BORING				G NC	G NO. SB-6				Page 3 of 3		
PROJE	CT: _	Grea	nt Western Trail		SITE	SITE LOCATION: Sycamore, Illinois			Illinois		
BORIN	G LOC	CATION: <u>Ea</u>	st Abutment, Structure	4	CLIE	NT:		Eı	igineer	ing Resourse	Associates
DEPTH (feet)	SOIL	Mate	rial Description	Elevation	TYPE/ INTERVAL	AMPL ON	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
64 -		Brown SAND with intermit SAND, A-3, (	tent sand seams Brow	772.	- - -ss	19	47	14			
68 –			wn & Grey Sandy , dense to medium	768.	- - - SS	20	48	20			
72 -	1 4 5 6 6 6 7 7 1 4 5 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	End of Poving	1 to 75 Foot	759,	- - - SS	21	21	16			
		End of Boring		759.3							
DURING IMMEDIA	DRILLII ATELY	OBSERVATIONS, ft. NG: AFTER DRILLING: DING AFTER	\(\frac{\rightarrow}{\rightarrow}\) 13.0' \(\frac{\rightarrow}{\rightarrow}\) 11.5' \(\frac{\rightarrow}{\rightarrow}\)	N	ASET	7		BOF LOG	ING C	TARTED: COMPLETED: BY: METHOD:	7/11/19 7/11/19 GPF HSA 40

MIDLAND STANDARD ENGINEERING TESTING, INC. 410 NOLEN DRIVE, SOUTH ELGIN, IL 60118 (847) 844-1895 F(847) 844-3875

	pH of Soil ASTM D 4972 / AASHTO T289							
Project N	ject # 19282 lame: Great Westerr Client: Engineering R ation: Sycamore,	esouce Assocates	Date Received: Date Tested: Tested by:	8/15/19 8/22/19 JDS				
Sample #	P-2 Black Loamy SAND & cinders	7.05	pH in disti	lled water				
Sample #	P-6 Black Loamy SAND & Gravel few cinders	7.27	pH in disti	lled water				
Sample #	P-8 Black Loamy SAND & cinders	7.32	pH in disti	lled water				
Sample #	P-10 Black Loamy SAND & cinders	7.46	pH in disti	lled water				

# **GENERAL NOTES**

# PARTICLE SIZE DESCRIPTION & TERMINOLOGY

Coarse Grained or Granular Soils have more than 50% of their dry weight retained on a #200 sieve; they are described as: boulders, cobbles, gravel or sand. Fine Grained soils have less than 50% of their dry weight retained on a #200 sieve; they are described as: clays or clayey silts if they are cohesive and silts if they are non-cohesive. In addition to gradation, granular soils are defined on the basis of their relative in-place density and the fine grained soils on the basis of their strength or consistency and their plasticity.

Major Component	Size
of Sample	Range
Boulders	Over 8 in. (200 mm)
Cobbles	8 inches to 3 inches (200 mm to 75mm)
Gravel	3 inches to #4 sieve (75mm to 4.75mm)
Sand	#4 to #200 sieve (4.75mm to 0.075mm)
Silt	Passing #200 sieve (0.075mm to 0.002mm)
Clay	Smaller than 0.002mm

Descriptive Term of Components Also Present in Sample	Approximate Quantity (Percent)
Trace	1 - 9
Little	10 - 19
Some	20 - 34
And	35 - 50

## RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

#### GRANULAR SOILS

DENSITY CLASSIFICATION	APPROXIMATE RANGE OF N *
Very Loose	0 - 3
Slightly Dense	4 - 9
Medium Dense	10 - 29
Dense	30 - 49
Very Dense	50 - 80
Extremely Dense	80 +

#### COHESIVE SOILS

CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH, Qu - TSF	APPROXIMATE RANGE OF N *	
Very Soft	0.25	0 - 2	
Soft	0.25 - 0.49	3 - 4	
Firm	0.50 - 0.99	5 - 8	
Stiff	1.00 - 1.99	9 - 15	
Very Stiff	2.00 - 3.99	16 - 30	
Hard	4.00 - 8.00	31 - 50	
Very Hard	8.00 +	Over 50	

<sup>\*</sup>STANDARD PENETRATION TEST (ASTM D1586) - A 2.0" outside-diameter, split barrel sampler is driven into undisturbed soil by means of a 140 pound weight falling freely through a vertical distance of 30 inches. The sampler is normally driven 3 successive 6 inch increments. The total number of blows required for the final 12 inches of penetration is the Standard Penetration Resistance (N).



# **Storm Water Pollution Prevention Plan**



Route		Marked Route	Section					
Multi-	Use Trail	Multi-Use Trail	18-P4006-01-BT					
Project	t Number	County	Contract Number					
TA4V	V(300)	DEKALB						
from co	No. ILR10 (Permit ILR10), issues onstruction site activities.  y under penalty of law that this doc lance with a system designed to as	by the Illinois Environmental Prot cument and all attachments were	Pollutant Discharge Elimination System (NPDES) ection Agency (IEPA) for storm water discharges prepared under my direction or supervision in perly gathered and evaluated the information					
gatheri I am av	ted. Based on my inquiry of the pe ing the information, the information	erson or persons who manage the	system, or those persons directly responsible for nowledge and belief, true, accurate and complete. ion, including the possibility of fine and					
Print N		Title	Agency					
Danie	l Gibble	Executive Director	Sycamore Park District					
Signati	ure		Date					
(	Del Me		11-7-19					
	Provide a description of the proje							
	23 of Sycamore Township. Th	thin the City of Sycamore and ne trail extends from the Sycan St. Lat: 41°59'26.0"N Long: 88°	DeKalb County. The trail lies within Section nore Forest Preserve trail to the intersection 40'15.0"W					
B.	Provide a description of the cons	truction activity which is subject o	f this plan:					
	The proposed improvements There will also be installation	of the project consist of construction of the project consists of the project of	uction of 4,100 LF of asphalt multi-use trail.  nd steel bridge structures.					
C.	Provide the estimated duration of	f this project:						
	8 months, starting in March 20	020.						
D.	The total area of the construction	site is estimated to be 6.415	acres.					
	The total area of the site estimate	ed to be disturbed by excavation,	grading or other activities is 2.86 acres.					
E.			s project after construction activities are					
	81.85							
F.	List all soils found within project t	oundaries. Include map unit nan	ne, slope information and erosivity:					
	F. List all soils found within project boundaries. Include map unit name, slope information and erosivity:  Virgil silt loam, 0 to 2 percent slopes, Dummer silty clay loam, 0 to 2 percent slopes, Elburn silt loam, 0 to 2 percent slopes; Barony silt loam, 2 to 5 percent slopes; Kaneville silt loam, 0 to 2 percent slopes, Orthents, loamy, undulating, Otter silt loam, 0 to 2 percent slopes.							
G.	Provide an aerial extent of wetlar							
	0.21 acres of wetlands and fa	rmed wetlands.						
H.	H. Provide a description of potentially erosive areas associated with this project:							

Potentially erosive areas include the outfalls along the trail, the embankment slopes south and north of the trail along the abandoned railroad be, and the slopes adjacent to the proposed abutments.

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.):

Mass grading will be performed after installation of the erosion control measures for the installation of the

trail. Existing slopes are low, and proposed slopes will not be steeper than 4H:1V. Proposed slopes at 4:1 will be a maximum of 4' of grade difference. Tree removal will occur prior to installation of the erosion control items to avoid conflicts.

- 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:

The project is directly tributary to the East Branch South Branch Kishwaukee River.

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

City of Sycamore and DeKalb County

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:

East Branch South Branch Kishwaukee River

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.

Waters of the US (East Branch South Branch Kishwaukee River and its tributary) and one wooded wetland swale area are directly adjacent to the project site. They, and the wooded buffers not marked for clearing, are to be protected by erosion control barrier along all disturbed areas. Trees adjacent to the project area not marked for removal are to be protected.

Ο.	The following sensitive environmental resources are associated with this project, and may have the potential to be
	impacted by the proposed development:

Wetland Riparian

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):

East Branch South Branch Kishwaukee River

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

Barium, Oxygen (Dissolved), Phosphorous (Total), Sedimentation/Siltation

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:

Riprap will be placed at the discharge points from storm sewers. Silt fence will be placed across all areas downstream of disturbance activities. Seeding will be provided along the entire project site for erosion control. Native seeding will be utilized on all areas outside of the 2' clear zone.

		c.	Provide a description of the location(s)	of di	rect discharge from the project site to the 303(d) water body:				
			There are no locations of direct disc	char	ge to the 303(d) water body.				
		d.	Provide a description of the location(s)	of a	ny dewatering discharges to the MS4 and/or water body:				
			There is no proposed dewatering.						
	2.	ТМ	ΓMDL (fill out this section if checked above)						
		a.	The name(s) of the listed water body:						
			East Branch South Branch Kishwau	ıkee	e River				
		b.	Provide a description of the erosion and design that is consistent with the assum		diment control strategy that will be incorporated into the site ons and requirements of the TMDL:				
					pance will be controlled with silt fence. All outfalls will sturbed areas will be permanently seeded with native,				
		C.	If a specific numeric waste load allocati provide a description of the necessary		has been established that would apply to the project's discharges, is to meet the allocation:				
			N/A						
P.	The	fol	lowing pollutants of concern will be asso	ciat	ed with this construction project:				
	$\boxtimes$	S	oil Sediment	$\boxtimes$	Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids)				
	$\boxtimes$	C	oncrete		Antifreeze / Coolants				
	$\boxtimes$	C	oncrete Truck waste	$\boxtimes$	Waste water from cleaning construction equipment				
	$\boxtimes$	C	oncrete Curing Compounds		Other (specify)				
	$\boxtimes$	S	olid waste Debris		Other (specify)				
	$\boxtimes$	Pa	aints		Other (specify)				
		S	olvents		Other (specify)				
	$\boxtimes$	Fe	ertilizers / Pesticides		Other (specify)				
Со	controls								

#### II.

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:
  - 1. Minimize the amount of soil exposed during construction activity;
  - 2. Minimize the disturbance of steep slopes;
  - 3. Maintain natural buffers around surface waters, direct storm water to vegetated areas to increase sediment removal and maximize storm water infiltration, unless infeasible;
  - 4. Minimize soil compaction and, unless infeasible, preserve topsoil.
- 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.

The following stabilization practices will be Preservation of Mature Vegetation	• •
☐ Vegetated Buffer Strips	Sodding
	Geotextiles
	ng
☐ Temporary Turf (Seeding, Class 7	) Other (specify)
☐ Temporary Mulching	Other (specify)
□ Permanent Seeding	Other (specify)
Describe how the stabilization practices lis	sted above will be utilized during construction:
vegetation in wetland areas. Tempora	esignated in the plans and special provisions to protect existing ry erosion control barriers and seeding will be used downstream of emain unstabilized for more than seven days.
Describe how the stabilization practices lis completed:	sted above will be utilized after construction activities have been
_	ol blanket will be installed immediately after completion of final alled immediately after installation of the storm sewers.
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practikes, drainage swales, sediment traps, di	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth tech checks, subsurface drains, pipe slope drains, level spreaders, storm
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practikes, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth tech checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practikes, drainage swales, sediment traps, didrain inlet protection, rock outlet protection	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth tech checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth the checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth that the checks, subsurface drains, pipe slope drains, level spreaders, storm not reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  Example 1 and 1 and 1 and 2 and 2 and 3 a
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier  Temporary Ditch Check	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth itch checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  E used for this project:  Rock Outlet Protection  Riprap
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier  Temporary Ditch Check  Storm Drain Inlet Protection	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth tch checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  E used for this project:  Rock Outlet Protection  Riprap  Gabions
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier  Temporary Ditch Check  Storm Drain Inlet Protection  Sediment Trap	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth that the checks, subsurface drains, pipe slope drains, level spreaders, storm in, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  Example In the control of
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier  Perimeter Erosion Barrier  Temporary Ditch Check  Storm Drain Inlet Protection  Sediment Trap  Temporary Pipe Slope Drain	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth itch checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  Example In the control of the Clean Water Act.
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier    Temporary Ditch Check   Storm Drain Inlet Protection   Sediment Trap   Temporary Pipe Slope Drain   Temporary Sediment Basin	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth tch checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  Example In the project:  A capacitation of structural practices that will be implemented, to the degree of pollutants transfer of pollu
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier  Temporary Ditch Check  Storm Drain Inlet Protection  Sediment Trap  Temporary Pipe Slope Drain  Temporary Sediment Basin  Temporary Stream Crossing	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth tech checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  Example Gabions  Gabions  Retaining Walls  Slope Walls  Concrete Revetment Mats
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier  Temporary Ditch Check  Storm Drain Inlet Protection  Sediment Trap  Temporary Pipe Slope Drain  Temporary Sediment Basin  Temporary Stream Crossing  Stabilized Construction Exits	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth tech checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  By Rock Outlet Protection  Riprap  Gabions  Slope Mattress  Retaining Walls  Slope Walls  Concrete Revetment Mats  Level Spreaders
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier  Temporary Ditch Check  Storm Drain Inlet Protection  Sediment Trap  Temporary Pipe Slope Drain  Temporary Sediment Basin  Temporary Stream Crossing  Stabilized Construction Exits  Turf Reinforcement Mats	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth itch checks, subsurface drains, pipe slope drains, level spreaders, storm in, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  Example In the Clean
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier  Temporary Ditch Check  Storm Drain Inlet Protection  Sediment Trap  Temporary Pipe Slope Drain  Temporary Sediment Basin  Temporary Stream Crossing  Stabilized Construction Exits  Turf Reinforcement Mats  Permanent Check Dams	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth the checks, subsurface drains, pipe slope drains, level spreaders, storm, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  By used for this project:  Rock Outlet Protection  Riprap  Gabions  Slope Mattress  Retaining Walls  Slope Walls  Concrete Revetment Mats  Level Spreaders  Other (specify)  Other (specify)
Structural Practices: Provided below is a attainable, to divert flows from exposed so from exposed areas of the site. Such practices, drainage swales, sediment traps, didrain inlet protection, rock outlet protection sediment basins. The installation of these The following stabilization practices will be Perimeter Erosion Barrier  Temporary Ditch Check  Storm Drain Inlet Protection  Sediment Trap  Temporary Pipe Slope Drain  Temporary Sediment Basin  Temporary Stream Crossing  Stabilized Construction Exits  Turf Reinforcement Mats  Permanent Check Dams  Permanent Sediment Basin	a description of structural practices that will be implemented, to the degree oils, store flows or otherwise limit runoff and the discharge of pollutants tices may include but are not limited to: perimeter erosion barrier, earth tch checks, subsurface drains, pipe slope drains, level spreaders, storm n, reinforced soil retaining systems, gabions, and temporary or permanent devices may be subject to Section 404 of the Clean Water Act.  By Rock Outlet Protection  Riprap  Gabions  Slope Mattress  Retaining Walls  Slope Walls  Concrete Revetment Mats  Level Spreaders  Other (specify)  Other (specify)  Other (specify)

1. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be

initiated as soon as practicable.

	Describe how the structural practices listed above will be utilized after construction activities have been completed:
	Riprap/rock outlet protection shall be left in place permanently.
D.	Treatment Chemicals
	Will polymer flocculents or treatment chemicals be utilized on this project: ☐ Yes ☒ 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:

Velocity dissipation devices (rip rap) will be installed at the outlet of each flared end section. Native planted open vegetated swales will be installed adjacent to the trail.

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:

All work shall be performed in accordance with Section 9-11 with the Municipal Code of Sycamore.

- 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:

- Approximate duration of the project, including each stage of the project
- Rainy season, dry season, and winter shutdown dates
- Temporary stabilization measures to be employed by contract phases
- Mobilization time frame
- Mass clearing and grubbing/roadside clearing dates
- Deployment of Erosion Control Practices
- Deployment of Sediment Control Practices (including stabilized construction entrances/exits)
- Deployment of Construction Site Management Practices (including concrete washout facilities, chemical storage, refueling locations, etc.)
- · Paving, saw-cutting, and any other pavement related operations
- Major planned stockpiling operations
- Time frame for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.
- · Permanent stabilization activities for each area of the project
- 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:
  - Vehicle Entrances and Exits Identify type and location of stabilized construction entrances and exits to be used and how they will be maintained.
  - Material delivery, Storage, and Use Discuss where and how materials including chemicals, concrete curing compounds, petroleum products, etc. will be stored for this project.
  - Stockpile Management Identify the location of both on-site and off-site stockpiles. Discuss what BMPs will be used to prevent pollution of storm water from stockpiles.
  - Waste Disposal Discuss methods of waste disposal that will be used for this project.
  - Spill Prevention and Control Discuss steps that will be taken in the event of a material spill (chemicals, concrete curing compounds, petroleum, etc.).
  - Concrete Residuals and Washout Wastes Discuss the location and type of concrete washout facilities to be used on this project and how they will be signed and maintained.
  - Litter Management Discuss how litter will be maintained for this project (education of employees, number of dumpsters, frequency of dumpster pick-up, etc.).
  - Vehicle and Equipment Cleaning and Maintenance Identify where equipment cleaning and maintenance locations for this project and what BMPs will be used to ensure containment and spill prevention.
  - Dewatering Activities Identify the controls which will be used during dewatering operations to ensure sediments will not leave the construction site.
  - Polymer Flocculants and Treatment Chemicals Identify the use and dosage of treatment chemicals and provide the Resident Engineer with Material Safety Data Sheets. Describe procedures on how the chemicals will be used and identify who will be responsible for the use and application of these chemicals. The selected individual must be trained on the established procedures.
  - Additional measures indicated in the plan.

#### III. Maintenance

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

Please see the maintenance notes provided in the Final Engineering Plans.

#### 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: <a href="mailto:epa.swnoncomp@illinois.gov">epa.swnoncomp@illinois.gov</a>, 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:

Please see the inspection notes on the Final Engineering Plans.

#### V. Failure to Comply

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



#### **Contractor Certification Statement**



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

Route	Marked Route		Section		
Multi-Use Trail	Multi-use Trail		18-P4006-01-BT		
Project Number	County		Contract Number		
TA4W(300)	DEKALB				
This certification statement is a part of Permit No. ILR10 issued by the Illinois E			in accordance with the General NPDES		
I certify under penalty of law that I under associated with industrial activity from the			at authorizes the storm water discharges certification.		
	oropriate maintenance	procedures; and, I h	ated in SWPPP for the above mentioned have provided all documentation required tes 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/subcontracto	r will be responsible for	as required in Secti	ion II.G. of SWPPP:		



# DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, ROCK ISLAND DISTRICT PO BOX 2004 CLOCK TOWER BUILDING ROCK ISLAND, ILLINOIS 61204-2004

SEP 5 2019

ENGINEERING RESOURCE ASSOCIATES, INC.

August 29, 2019

Operations Division

SUBJECT: CEMVR-OD-P-2019-999

Erin Pande
Engineering Resource Associates
3S701 West Avenue
Warrenville, Illinois 60555

Dear Ms. Pande:

Our office has reviewed your application received August 15, 2018, concerning the Sycamore Park Districts' proposed trail system over the South Branch of the East Branch Kishwaukee River, located in Section 33, Township 41 North, Range 5 East, Dekalb County, Illinois.

The project is covered under Nationwide Permit No. 14, as published in the enclosed Fact Sheet No. 8 (IL), provided you meet the permit conditions for the nationwide permits, which are included in the Fact Sheet. The Corps has also made a determination of no effect on federally threatened and endangered species or critical habitat. The Illinois Environmental Protection Agency (IEPA) has also issued Section 401 Water Quality Certification with conditions for this nationwide permit. Please note these additional conditions included in the Fact Sheet. The decision regarding this action is based on information found in the administrative record, which documents the District's decision-making process, the basis for the decision, and the final decision.

This verification is valid until March 18, 2022, unless the nationwide permit is modified, reissued, or revoked. It is your responsibility to remain informed of changes to the nationwide permit program. We will issue a public notice announcing any changes if and when they occur. Furthermore, if you commence or are under contract to commence this activity before the date the nationwide permit is modified or revoked, you will have twelve months from that date to complete your activity under the present terms and conditions of this nationwide permit. If the project plans change, you should contact our office for another determination.

This authorization does not eliminate the requirement that you must still acquire other applicable Federal, state, and local permits. If you have not already coordinated your project with the Illinois Department of Natural Resources — Offices of Water Resources, please contact them at 217/782-3863 to determine if a floodplain development permit is required for your project. You may contact the IEPA Facility Evaluation Unit at 217/782-3362 to determine whether additional authorizations are required from the IEPA. Please send any electronic correspondence to Epa.401.docs@illinois.gov.

You are required to complete and return the enclosed "Completed Work Certification" form upon completion of your project in accordance with General Condition No. 30 of the nationwide permits.

The Rock Island District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, please take a moment to complete the attached postcard and return it or go to our Customer Service Survey found on our website at <a href="http://corpsmapu.usace.army.mil/cm\_apex/f?p=regulatory\_survey">http://corpsmapu.usace.army.mil/cm\_apex/f?p=regulatory\_survey</a> (Be sure to select "Rock Island District" under the area entitled: <a href="http://corps.mil/cm\_apex/f?p=regulatory\_survey">Which Corps.office did you deal with?</a>)

Should you have any questions, please contact our Regulatory Branch by letter, or telephone Ms. Samantha Chavez at 309/794-5104.

Sincerely,

Donna M. Jones, P.E.

Chief, Illinois/Missouri Permit Section

Regulatory Branch

Copy Furnished: (w/o enclosures)

Mr. William Milner, P.E.
Office of Water Resources
IL Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62701-1271
Bill.Milner@illinois.gov (email)

Mr. Darin LeCrone. P.E.
Illinois Environmental Protection Agency
Division of Water Pollution Control, Sect. 15
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
Darin.LeCrone@illinois.gov (email)

# COMPLETED WORK CERTIFICATION

CEMVR-OD-P-2019-999

Name of Permittee:	Sycamore Park Distri	ct	
County/State:	DeKalb / Illinois		
Date of Issuance:	August 29, 2019		
Upon completion of the ac permit, sign this certification	ivity authorized by this jon and return it to the fol	permit and any mitigation re lowing address:	equired by the
ATT Cloo Post	Army Engineer District N: Regulatory Branch ck Tower Building Office Box 2004 k Island, Illinois 61204-		
Please note that your perm Corps of Engineers represe permit suspension, modifie	entative. If you fail to co	o a compliance inspection bomply with this permit, you	y a U.S. Army are subject to
I hereby certify that the wo accordance with the terms completed in accordance v	and conditions of the sai	ove reference permit has been dipermit, and required mitigs.	en completed in gation was
Signature of Permittee		Date	

Permit Number:

Page 1 of 2



Source Location Information

IL 532-2922

# 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 uncontaminate	ated soil)			
Project Name: Great Western Trail	Office Ph	one Number, if a	available: N	I/A
Physical Site Location (address, inclduding number and	d street):		_	
Former Chicago & Great Western Railway Alignment f	rom Stone Prairie Rental (	Community to S	camore R	V Resort
City: Sycamore State: IL	Zip Code: 60178	_		
County: DeKalb	Township: Sycar	more		
Lat/Long of approximate center of site in decimal degree	es (DD.ddddd) to five dec	cimal places (e.g	., 40.67890	0, -90.12345):
Latitude: 41.991040 Longitude: -88.6739	40			
(Decimal Degrees) (-Decima	al Degrees)			
Identify how the lat/long data were determined:				
☐ GPS ☑ Map Interpolation ☐ Photo Inter	rpolation	☐ Other		
IEPA Site Number(s), if assigned: BOL:	BOW:		BOA:	
II. Owner/Operator Information for Source Site Owner	Site	5	Site Operat	or
Name: Sycamore Park District	Name:	Engineering Re	esource As	sociates
Street Address: 480 South Airport Road	Street Address:	3s701 West Av	enue, Suit	e 150
PO Box:	PO Box:			
City: Sycamore State: IL	City:	Warrenville		_ State: <u>IL</u>
Zip Code: 60178 Phone: (815) 895-3	Zip Code:	60555	Phone:	(630) 393-3060
Contact: Dan Gibble	Contact:	Drew Kustusch	1	
Email, if available:	Email, if availab	le:		

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: 41.991040 Longitude: -88.673940	Project Name:	Great Western	ГгаіІ	
	Latitude:	41.991040	Longitude:	<b>-</b> 88.673940

#### 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 III. Adm. Code 1100.610(a)]:

Hand auger borings were made for the proposed trail section located off the existing railroad embankment, an approximated 300 foot section centered at 41.991040N, -88.673940E. Samples were screened in the field and a discrete sample was selected for analytical testing.

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]:

See First Environmental Laboratories Report dated September 30, 2019.	-

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

l, William J. Wyzgala (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:	Midland Standard Engineering	& Testin	ıg, Inc.		
Street Address:	410 Nolen Drive				
City:	South Elgin	State:	<u>IL</u>	Zip Code: 60177	
Phone:		_			
William J. Wyzgala Printed Name:  Ullian J. Wyzgala  Printed Name:  Licensed Professional E  Licensed Professional G			10/7	Date:	DESCRIPTION OF SEALS



September 30, 2019

Mr. William Wyzgala MIDLAND STANDARD ENG. & TESTING, INC. 410 Nolen Drive South Elgin, IL 60177

Project ID: 19615 - Great Western Trail First Environmental File ID: 19-5736 Date Received: September 23, 2019

Dear Mr. William Wyzgala:

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 1002922019-1: effective 08/22/2019 through 02/28/2020.

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 Manage

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

# Case Narrative

MIDLAND STANDARD ENG. & TESTING, INC.

Lab File ID: 19-5736

Project ID: 19615 - Great Western Trail

Date Received: September 23, 2019

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
19-5736-001	SB-2	09/16/19

#### **Sample Batch Comments:**

Time of sample collection was not provided.

#### **Method Comments**

Lab Number	Sample ID	Comments:
19-5736-001	SB-2	Semi-Volatile Compounds The reporting limits are elevated due tp low %TS
19-5736-001	SB-2	Volatile Organic Compounds The reporting limits are elevated due to low # solids.

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

# Case Narrative

MIDLAND STANDARD ENG. & TESTING, INC.

Lab File ID: 19-5736

Project ID: 19615 - Great Western Trail

Date Received: September 23, 2019

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.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
Е	E Estimated result; concentration exceeds calibration range.		Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	Т	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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# **Analytical Report**

Client:

MIDLAND STANDARD ENG. & TESTING, INC.

**Date Collected:** 09/16/19

Project ID:

19615 - Great Western Trail

Time Collected:

Sample ID:

SB-2

Date Received:

09/23/19

Sample No:

19-5736-001

Date Reported:

09/30/19

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Solids, Total Analysis Date: 09/25/19	Method: 2540B				
Total Solids		44.00		%	
Volatile Organic Compounds Analysis Date: 09/27/19	Method: 5035A/826	60B			
Acetone		< 200	200	ug/kg	
Benzene		10.0	5.0	ug/kg	
Bromodichloromethane		10.0	5.0	ug/kg	
Bromoform		10.0	5.0	ug/kg	
Bromomethane		< 10.0	10.0	ug/kg	
2-Butanone (MEK)		< 100	100	ug/kg	
Carbon disulfide		19.4	5.0	ug/kg	
Carbon tetrachloride		10.0	5.0	ug/kg	
Chlorobenzene		10.0	5.0	ug/kg	
Chlorodibromomethane		10.0	5.0	ug/kg	
Chloroethane		< 10.0	10.0	ug/kg	
Chloroform		10.0	5.0	ug/kg	
Chloromethane		< 10.0	10.0	ug/kg	
1,1-Dichloroethane		10.0	5.0	ug/kg	
1,2-Dichloroethane		10.0	5.0	ug/kg	
1,1-Dichloroethene		10.0	5.0	ug/kg	
cis-1,2-Dichloroethene		10.0	5.0	ug/kg	
trans-1,2-Dichloroethene		10.0	5.0	ug/kg	
1,2-Dichloropropane		10.0	5.0	ug/kg	
cis-1,3-Dichloropropene		10.0	4.0	ug/kg	
trans-1,3-Dichloropropene		10.0	4.0	ug/kg	
Ethylbenzene		10.0	5.0	ug/kg	
2-Hexanone		< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)		10.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)		< 10.0	10.0	ug/kg	
Methylene chloride		< 20.0	20.0	ug/kg	
Styrene		10.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane		10.0	5.0	ug/kg	
Tetrachloroethene		10.0	5.0	ug/kg	
Toluene		10.0	5.0	ug/kg	
1,1,1-Trichloroethane		10.0	5.0	ug/kg	
1,1,2-Trichloroethane		10.0	5.0	ug/kg	
Trichloroethene		10.0	5.0	ug/kg	

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# **Analytical Report**

Client: MIDLAND STANDARD ENG. & TESTING, INC.

**Date Collected:** 09/16/19

Project ID:

19615 - Great Western Trail

Time Collected:

Sample ID:

SB-2

Date Received:

09/23/19

Sample No:

19-5736-001

Date Reported:

09/30/19

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Volatile Organic Compounds Analysis Date: 09/27/19	Method: 5035A/82	260B			4
Vinyl acetate		< 10.0	10.0	ug/kg	
Vinyl chloride		< 10.0	10.0	ug/kg	
Xylene, Total		10.0	5.0	ug/kg	
Semi-Volatile Compounds Analysis Date: 09/25/19	Method: 8270C		Preparation Preparation I		
Acenaphthene		< 660	330	ug/kg	
Acenaphthylene		< 660	330	ug/kg	
Anthracene		< 660	330	ug/kg	
Benzidine		< 660	330	ug/kg	
Benzo(a)anthracene		< 660	330	ug/kg	
Benzo(a)pyrene		< 180	90	ug/kg	
Benzo(b)fluoranthene		< 660	330	ug/kg	
Benzo(k)fluoranthene		< 660	330	ug/kg	
Benzo(ghi)perylene		< 660	330	ug/kg	
Benzoic acid		< 660	330	ug/kg	
Benzyl alcohol		< 660	330	ug/kg	
bis(2-Chloroethoxy)methane		< 660	330	ug/kg	
bis(2-Chloroethyl)ether		< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether		< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate		< 660	330	ug/kg	
4-Bromophenyl phenyl ether		< 660	330	ug/kg	
Butyl benzyl phthalate		< 660	330	ug/kg	
Carbazole		< 660	330	ug/kg	
4-Chloroaniline		< 660	330	ug/kg	
4-Chloro-3-methylphenol		< 660	330	ug/kg	
2-Chloronaphthalene		< 660	330	ug/kg	
2-Chlorophenol		< 660	330	ug/kg	
4-Chlorophenyl phenyl ether		< 660	330	ug/kg	
Chrysene		< 660	330	ug/kg	
Dibenzo(a,h)anthracene		< 180	90	ug/kg	
Dibenzofuran		< 660	330	ug/kg	
1,2-Dichlorobenzene		< 660	330	ug/kg	
1,3-Dichlorobenzene		< 660	330	ug/kg	
1,4-Dichlorobenzene		< 660	330	ug/kg	
3,3'-Dichlorobenzidine	a	< 1,320	660	ug/kg	
2,4-Dichlorophenol		< 660	330	ug/kg	
-				*** <del>**</del>	Page 5608

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

# **Analytical Report**

Client: MIDLAND STANDARD ENG. & TESTING, INC.

**Date Collected:** 09/16/19

Project ID: 19615 - Great Western Trail

Time Collected:

Sample ID: SB-2

Date Received:

09/23/19

**Sample No:** 19-5736-001

**Date Reported:** 09/30/19

Results are reported on a dry weight basis.

A polyte		Result	R.L.	Units	Flore
Analyte		Resuit			Flags
Semi-Volatile Compounds Analysis Date: 09/25/19	Method: 8270C		<b>Preparation</b> Preparation D		
Diethyl phthalate	*	< 660	330	ug/kg	
2,4-Dimethylphenol		< 660	330	ug/kg	
Dimethyl phthalate		< 660	330	ug/kg	
Di-n-butyl phthalate		< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol		< 3,200	1600	ug/kg	
2,4-Dinitrophenol		< 3,200	1600	ug/kg	
2,4-Dinitrotoluene		< 500	250	ug/kg	
2,6-Dinitrotoluene		< 520	260	ug/kg	
Di-n-octylphthalate		< 660	330	ug/kg	
Fluoranthene		< 660	330	ug/kg	
Fluorene		< 660	330	ug/kg	
Hexachlorobenzene		< 660	330	ug/kg	
Hexachlorobutadiene		< 660	330	ug/kg	
Hexachlorocyclopentadiene		< 660	330	ug/kg	
Hexachloroethane		< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene		< 660	330	ug/kg	
Isophorone		< 660	330	ug/kg	
2-Methylnaphthalene		< 660	330	ug/kg	
2-Methylphenol		< 660	330	ug/kg	
3 & 4-Methylphenol		< 660	330	ug/kg	
Naphthalene		< 660	330	ug/kg	
2-Nitroaniline		< 3,200	1600	ug/kg	
3-Nitroaniline		< 3,200	1600	ug/kg	
4-Nitroaniline		< 3,200	1600	ug/kg	
Nitrobenzene		< 520	260	ug/kg	
2-Nitrophenol		< 3,200	1600	ug/kg	
4-Nitrophenol		< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine		< 180	90	ug/kg	
n-Nitrosodimethylamine		< 660	330	ug/kg	
n-Nitrosodiphenylamine		< 660	330	ug/kg	
Pentachlorophenol		< 660	330	ug/kg	
Phenanthrene		< 660	330	ug/kg	
Phenol		< 660	330	ug/kg	
Pyrene		< 660	330	ug/kg	
Pyridine		< 660	330	ug/kg	
1,2,4-Trichlorobenzene		< 660	330	ug/kg	

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# **Analytical Report**

Client:

MIDLAND STANDARD ENG. & TESTING, INC.

**Date Collected:** 09/16/19

Project ID:

19615 - Great Western Trail

Time Collected:

Sample ID:

SB-2

Date Received:

09/23/19

09/30/19

Sample No: 19-5736-001 Date Reported:

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds Analysis Date: 09/25/19	Method: 8270C		Preparation Preparation D		
2,4,5-Trichlorophenol		< 660	330	ug/kg	
2,4,6-Trichlorophenol		< 660	330	ug/kg	
Pesticides/PCBs Analysis Date: 09/26/19	Method: 8081A/80	082	<b>Preparation</b> Preparation D		
Aldrin		< 8.0	8.0	ug/kg	
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
alpha-BHC		< 2.0	2.0	ug/kg	
beta-BHC		< 8.0	8.0	ug/kg	
delta-BHC		< 8.0	8.0	ug/kg	
gamma-BHC (Lindane)		< 8.0	8.0	ug/kg	
alpha-Chlordane		< 80.0	80.0	ug/kg	
gamma-Chlordane		< 80.0	80.0	ug/kg	
4,4'-DDD		< 16.0	16.0	ug/kg	
4,4'-DDE		< 16.0	16.0	ug/kg	
4,4'-DDT		< 16.0	16.0	ug/kg	
Dieldrin		< 16.0	16.0	ug/kg	
Endosulfan I		< 8.0	8.0	ug/kg	
Endosulfan II		< 16.0	16.0	ug/kg	
Endosulfan sulfate		< 16.0	16.0	ug/kg	
Endrin		< 16.0	16.0	ug/kg	
Endrin aldehyde		< 16.0	16.0	ug/kg	
Endrin ketone		< 16.0	16.0	ug/kg	
Heptachlor		< 8.0	8.0	ug/kg	
Heptachlor epoxide		< 8.0	8.0	ug/kg	
Methoxychlor		< 80.0	80.0	ug/kg	
Toxaphene		< 160	160	ug/kg	
Total Metals	Method: 6010C		Preparation	Mothod 305	UB

**Total Metals** 

Method: 6010C

Preparation Method 3050B Preparation Date: 09/24/19

Analysis Date: 09/24/19 Arsenic

3.8

1.0 mg/kg

IL ELAP / NELAC Accreditation # 100292

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

## **Analytical Report**

Client:

MIDLAND STANDARD ENG. & TESTING, INC.

Date Collected:

09/16/19

Project ID:

19615 - Great Western Trail

**Time Collected:** 

00/00/1

Sample ID:

SB-2

Date Received:

09/23/19

Sample No:

19-5736-001

Date Reported:

09/30/19

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Total Metals Analysis Date: 09/24/19	Method: 6010C		<b>Preparation</b> Preparation I		
Barium		64.9	0.5	mg/kg	
Cadmium		< 1.5	0.5	mg/kg	W
Chromium		8.6	0.5	mg/kg	
Lead		9.4	0.5	mg/kg	
Selenium		< 2.5	1.0	mg/kg	W
Silver		0.4	0.2	mg/kg	
Total Mercury Analysis Date: 09/25/19	Method: 7471B				
Mercury		< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 09/25/19 14:00	Method: 9045D 2	004			
pH @ 25°C, 1:2		8.24		Units	

# CHAIN OF CUSTODY RECORD

,	Pgs	
	Jo	
	Page	

First

1	Company Name: N	fidland St	Company Name: Midland Standard Engineering & Testing, Inc.	ing, Inc.				
	Street Address: 410 Nolen Drive	10 Nolen	Drive					
l	City: South Elgin	n		Stat	State: IL	Zip: 60177	0177	
	Phone: 847-844-1895	895	Fax:	-Mail: W	e-Mail: wwyzgala@msetinc.com	etinc.co	Ē	
	Send Report To: William Wyzgala	'illiam Wy	zgala		Via Fax:	<u> </u>	Via e-Mail: 🔀	×
	Sampled By: MSET	_						

the left. ate which		Lab I.D.	001												
Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.		Comments	19.5736												Containers Received Preserved: YesNo 5035 Vlals Frozen: YesNo Freezer Temperature:°C
				•				0	4						Containers Received Pr 5035 Vials Frozen: Yes_ Freezer Temperature:
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des/PCBs Metals		-	7												Sample Refrigerated: Yes_Refrigerator Temperature:
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	ΛOC	$\dashv$	7												Sample Refrige
10	,	Matrix	Other	Other	Other	Other	Other	Other	Other	Other	Other	Other	Other	Other	ပ္
Project I.D.: 19615 Great Western Train. P.O. #: 19615	200	0	DKom Clot of his Sand											,	Cooler Temperature;0.1-6°C Yes V No V7 Received within 6 b/s of collection:
Project I.D.: 19 (	Doctor	Date/11me 1aken	4/16 PM												FOR LAB USE ONLY:

Relinquished By. Rev 1/07 Relinquished By:

Notes and Special Instructions:

Date/Time: 09/23/19

Date/Time: 9/23/15/1627 Received By:

Date/Time:

Received By:

Date/Time:

Great Western Trail Extension Sycamore Forest Preserve to Old Mill Park Section No.: 18-P4006-01-BT

> Project No.: KLJK(070) Job No.: C-93-021-19 Contract No.: 87730

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

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's community college pre-apprenticeship programs outlined by this Special Provision.

It is the policy of IDOT to fund IDOT pre-apprenticeship training programs based at Illinois Community Colleges throughout Illinois, by Intergovernmental Agreement with the Illinois Community College Board, 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 state funded construction contracts shall include "Training Program Graduate (TPG) Special Provisions." To benefit from the incentives to encourage the participation in the additional on-the-job training under this Training Program Graduate (TPG) Special Provision, the Contractor shall make every reasonable effort to employ certified graduates of the IDOT funded Pre-apprenticeship Training Program 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 \$10.00 per hour for training given a certified graduate trainee 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 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.

Great Western Trail Extension Sycamore Forest Preserve to Old Mill Park Section No.: 18-P4006-01-BT

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BASIS OF PAYMENT: This work will be paid for at the contract unit price of \$15.00 per hour for 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 two (2). 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 Southwestern Illinois Community College 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 will be responsible for providing assistance and referrals to the Contractor for the applicable TPGs. For this contract, IDOT staff person Pam Simon 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 Ms. Simon and interviewing each candidate 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 Illinois Community College Program 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 TPG Special Provision \$15.00 an hour incentive.

The Contractor or subcontractor shall provide each TPG with a certification 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:
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	The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

# State of Illinois DEPARTMENT OF TRANSPORTATION Bureau of Local Roads & Streets

### SPECIAL PROVISION FOR GROWTH CURVE

Effective: March 1, 2008 Revised: January 1, 2010

All references to Sections and Articles in this Special Provision shall be construed to mean specific Sections and Articles in the Standard Specifications for Road and Bridge Construction adopted by the Department of Transportation.

The Contractor shall perform a growth curve at the beginning of placement of each type of mix and each lift. The growth curve for each type of mix and each lift shall be performed within the first 200 tons (180 metric tons). If an adjustment is made to the specific mix design, the Engineer reserves the right to request an additional growth curve and supporting tests at the Contractor's expense.

Compaction of the growth curve shall commence immediately after the course is placed and at a temperature of not less than 280 °F (140 °C). The growth curve, consisting of a plot of lb/cu ft (kg/cu m) vs. number of passes with the project breakdown roller, shall be developed. Roller speed during the growth curve testing shall be the same as the normal paving operation. This curve shall be established by use of a nuclear gauge. Tests shall be taken after each pass until the highest lb/cu ft (kg/cu m) is obtained. This value shall be the target density provided the HMA Gyratory air voids are within acceptable limits. If the HMA Gyratory air voids are not within the specified limits, corrective action shall be taken, and a new target density shall be established.

A new growth curve is required if the breakdown roller used on the growth curve is replaced with a new roller during production. The target density shall apply only to the specific gauge used. If additional gauges are to be used to determine density specification compliance, the Contractor shall establish a unique minimum allowable target density from the growth curve location for each gauge.

At least one core sample per day shall be taken at a location specified by the Engineer. Core densities will be determined using the Illinois-Modified AASHTO T 166 or T 275 procedure by the Department. The core density shall be according to Articles 1030.05(d)(4) and (d)(7). The QA Manager is responsible for assuring and documenting that the determined number of roller passes has been accomplished. The Engineer reserves the right to take core samples at any time to verify density from the nuclear gauge,

All lifts and confined longitudinal joint edges shall be compacted to an average nuclear gauge density of not less than 95 percent nor greater than 102 percent of the target density obtained on the growth curve. Unconfined longitudinal joint edges shall be compacted to an average nuclear gauge density of not less than 93 percent nor greater than 102 percent of the target density obtained on the growth curve. The average nuclear gauge density shall be based on tests representing one day's production.

Quality Control density tests shall be performed at randomly selected locations within 1/2 mile (800 m) intervals per lift per lane. In no case shall more than one half day's production be completed without density testing being performed. 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 2 in. (50 mm) from each pavement edge.

If the Contractor is not controlling the compaction process and is making no effort to take corrective action, the operation shall stop as directed by the Engineer.

### **COMPENSABLE DELAY COSTS (BDE)**

Effective: June 2, 2017 Revised: April 1, 2019

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
	One Project Manager,
Over \$50,000,000	Two Project Superintendents,
Over \$50,000,000	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 according to Article 109.04.

When an extended traffic control 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."

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### **DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)**

Effective: September 1, 2000 Revised: March 2, 2019

<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.

STATE OBLIGATION. 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 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.

OVERALL GOAL SET FOR THE DEPARTMENT. 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.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined 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, in the absence of unlawful discrimination and in an arena of fair and open competition, DBE companies can be expected to perform 8.00 % 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 enough DBE participation has been obtained to meet the goal or,
- (b) The bidder documents 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-enterprise-certification/il-ucp-directory/index.

<u>BIDDING PROCEDURES</u>. Compliance with this Special Provision is a material bidding requirement and failure of the bidder to comply will render the bid not responsive.

The bidder shall submit a DBE Utilization Plan (form SBE 2026), and a DBE Participation Statement (form SBE 2025) for each DBE company proposed for the performance of work to achieve the contract goal, with the bid. If the Utilization Plan indicates the contract goal will not be met, documentation of good faith efforts shall also be submitted. 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. The required forms and documentation must be submitted as a single .pdf file using the "Integrated Contractor Exchange (iCX)" application within the Department's "EBids System".

The Department will not accept a Utilization Plan if it does not meet the bidding procedures set forth herein and the bid will be declared not responsive. In the event the bid is declared not responsive, 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.

GOOD FAITH EFFORT PROCEDURES. The contract will not be awarded until the Utilization Plan is approved. All information submitted by the bidder must be complete, accurate and adequately document enough DBE participation has been obtained or document the 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. This means 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 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 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 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 the 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 it is otherwise eligible for award. If the Department determines 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 will also include a statement of reasons for the adverse 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 to cure the deficiency.

(c) The bidder may request administrative reconsideration of an adverse determination by emailing the Department at "DOT.DBE.UP@illinois.gov" within the five calendar days after the receipt of the notification of the determination. The determination shall become final if a request is not made on or before the fifth calendar day. 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 reviewed by the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person 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.

CALCULATING DBE PARTICIPATION. 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 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 owner-operator. 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.

CONTRACT COMPLIANCE. 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 become 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 emailed to the Department at <u>DOT.DBE.UP@illinois.gov</u>.
- (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, a new Request for Approval of Subcontractor will not be required. However, the Contractor must document efforts to assure 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 copies of DBE subcontracts to the Department 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) 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) The DBE is aware 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) 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) TERMINATION AND REPLACEMENT PROCEDURES. 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 Contractor;
- (3) The listed DBE subcontractor fails or refuses to meet the 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) The Contractor has determined the listed DBE subcontractor is not a responsible contractor;
- (7) The listed DBE subcontractor voluntarily withdraws from the projects and provides written notice to the Contractor 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 Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the Contractor can self-perform the work for which the DBE contractor was engaged or so that the 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 will provide a written determination to the Contractor stating whether or not good faith efforts have been demonstrated.
- (f) FINAL PAYMENT. 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 30 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 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 may 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.

80029

### **DISPOSAL FEES (BDE)**

Effective: November 1, 2018

Replace Articles 109.04(b)(5) - 109.04(b)(8) of the Standard Specifications with the following:

- "(5) Disposal Fees. When the extra work performed includes paying for disposal fees at a clean construction and demolition debris facility, an uncontaminated soil fill operation or a landfill, the Contractor shall receive, as administrative costs, an amount equal to five percent of the first \$10,000 and one percent of any amount over \$10,000 of the total approved costs of such fees.
- (6) Miscellaneous. No additional allowance will be made for general superintendence, the use of small tools, or other costs for which no specific allowance is herein provided.
- (7) Statements. No payment will be made for work performed on a force account basis until the Contractor has furnished the Engineer with itemized statements of the cost of such force account work. Statements shall be accompanied and supported by invoices for all materials used and transportation charges. However, if materials used on the force account work are not specifically purchased for such work but are taken from the Contractor's stock, then in lieu of the invoices, the Contractor shall furnish an affidavit certifying that such materials were taken from his/her stock, that the quantity claimed was actually used, and that the price and transportation claimed represent the actual cost to the Contractor.

Itemized statements at the cost of force account work shall be detailed as follows.

- a. Name, classification, date, daily hours, total hours, rate, and extension for each laborer and foreman. Payrolls shall be submitted to substantiate actual wages paid if so requested by the Engineer.
- b. Designation, dates, daily hours, total hours, rental rate, and extension for each unit of machinery and equipment.
- c. Quantities of materials, prices and extensions.
- d. Transportation of materials.
- e. Cost of property damage, liability and workmen's compensation insurance premiums, unemployment insurance contributions, and social security tax.
- (8) Work Performed by an Approved Subcontractor. When extra work is performed by an approved subcontractor, the Contractor shall receive, as administrative costs, an amount equal to five percent of the total approved costs of such work with the minimum payment being \$100.

(9) All statements of the cost of force account work shall be furnished to the Engineer not later than 60 days after receipt of the Central Bureau of Construction form "Extra Work Daily Report". If the statement is not received within the specified time frame, all demands for payment for the extra work are waived and the Department is released from any and all such demands. It is the responsibility of the Contractor to ensure that all statements are received within the specified time regardless of the manner or method of delivery."

80402

### **EMULSIFIED ASPHALTS (BDE)**

Effective: August 1, 2019

Revise Article 1032.06 of the Standard Specifications to read:

"1032.06 Emulsified Asphalts. Emulsified asphalts will be accepted according to the current Bureau of Materials Policy Memorandum, "Emulsified Asphalt Acceptance Procedure". These materials shall be homogeneous and shall show no separation of asphalt after thorough mixing, within 30 days after delivery, provided separation has not been caused by freezing. They shall coat the aggregate being used in the work to the satisfaction of the Engineer and shall be according to the following requirements.

- (a) Anionic Emulsified Asphalt. Anionic emulsified asphalts RS-1, RS-2, HFRS-2, SS-1h, and SS-1 shall be according to AASHTO M 140, except as follows.
  - (1) The cement mixing test will be waived when the emulsion is being used as a tack coat.
  - (2) The Solubility in Trichloroethylene test according to AASHTO T 44 may be run in lieu of Ash Content and shall meet a minimum of 97.5 percent.
- (b) Cationic Emulsified Asphalt. Cationic emulsified asphalts CRS-1, CRS-2, CSS-1h, and CSS-1 shall be according to AASHTO M 208, except as follows.
  - (1) The cement mixing test will be waived when the emulsion is being used as a tack coat.
  - (2) The Solubility in Trichloroethylene test according to AASHTO T 44 may be run in lieu of Ash Content and shall meet a minimum of 97.5 percent.
- (c) High Float Emulsion. High float emulsions HFE-90, HFE-150, and HFE-300 are medium setting and shall be according to the following table.

Test	HFE-90	HFE-150	HFE-300		
Viscosity, Saybolt Furol, at 122 °F (50 °C), (AASHTO T 59), SFS 1/	50 min.	50 min.	50 min.		
Sieve Test, No. 20 (850 μm), retained on sieve, (AASHTO T 59), %	0.10 max.	0.10 max.	0.10 max.		
Storage Stability Test, 1 day, (AASHTO T 59), %	1 max.	1 max.	1 max.		
Coating Test (All Grades), (AASHTO T 59), 3 minutes	stone coated thoroughly				
Distillation Test, (AASHTO T 59): Residue from distillation test to					
500 °F (260 °C), % Oil distillate by volume, %	65 min. 7 max.	65 min. 7 max.	65 min. 7 max.		

Characteristics of residue from distillation test to 500 °F (260 °C): Penetration at 77 °F (25 °C), (AASHTO T 49), 100 g,			
5 sec, dmm	90-150	150-300	300 min.
Float Test at 140 °F (60 °C),			
(AASHTO T 50), sec.	1200 min.	1200 min.	1200 min.

- 1/ The emulsion shall be pumpable.
- (d) Penetrating Emulsified Prime. Penetrating Emulsified Prime (PEP) shall be according to AASHTO T 59, except as follows.

Test	Result
Viscosity, Saybolt Furol, at 77 °F (25 °C), SFS	75 max.
Sieve test, retained on No. 20 (850 µm) sieve, %	0.10 max.
Distillation to 500 °F (260 °C) residue, %	38 min.
Oil distillate by volume, %	4 max.

The PEP shall be tested according to the current Bureau of Materials Illinois Laboratory Test Procedure (ILTP), "Sand Penetration Test of Penetrating Emulsified Prime (PEP)". The time of penetration shall be equal to or less than that of MC-30. The depth of penetration shall be equal to or greater than that of MC-30.

- (e) Delete this subparagraph.
- (f) Polymer Modified Emulsified Asphalt. Polymer modified emulsified asphalts, e.g. SS-1hP, CSS-1hP, CRS-2P (formerly CRSP), CQS-1hP (formerly CSS-1h Latex Modified) and HFRS-2P (formerly HFP) shall be according to AASHTO M 316, except as follows.
  - (1) The cement mixing test will be waived when the polymer modified emulsion is being used as a tack coat.
  - (2) CQS-1hP (formerly CSS-1h Latex Modified) emulsion for micro-surfacing treatments shall use latex as the modifier.
  - (3) Upon examination of the storage stability test cylinder after standing undisturbed for 24 hours, the surface shall show minimal to no white, milky colored substance and shall be a homogenous brown color throughout.
  - (4) The distillation for all polymer modified emulsions shall be performed according to AASHTO T 59, except the temperature shall be  $374 \pm 9$  °F ( $190 \pm 5$  °C) to be held for a period of 15 minutes and measured using an ASTM 16F (16C) thermometer.
  - (5) The specified temperature for the Elastic Recovery test for all polymer modified emulsions shall be  $50.0 \pm 1.0$  °F ( $10.0 \pm 0.5$  °C).

- (6) The Solubility in Trichloroethylene test according to AASHTO T 44 may be run in lieu of Ash Content and shall meet a minimum of 97.5 percent.
- (g) Non-Tracking Emulsified Asphalt. Non-tracking emulsified asphalt NTEA (formerly SS-1vh) shall be according to the following.

Test	Requirement		
Saybolt Viscosity at 77 °F (25 °C),			
(AASHTO T 59), SFS	20-100		
Storage Stability Test, 24 hr, (AASHTO T 59), %	1 max.		
Residue by Distillation, 500 ± 10 °F (260 ± 5 °C), or			
Residue by Evaporation, 325 ± 5 °F (163 ± 3 °C),			
(AASHTO T 59), %	50 min.		
Sieve Test, No. 20 (850 μm), (AASHTO T 59), %	0.3 max.		
Tests on Residue from Evaporation			
Penetration at 77 °F (25 °C), 100 g, 5 sec,			
(AASHTO T 49), dmm	40 max.		
Softening Point, (AASHTO T 53), °F (°C)	135 (57) min.		
Ash Content, (AASHTO T 111), % 1/	1 max.		

<sup>1/</sup> The Solubility in Trichloroethylene test according to AASHTO T 44 may be run in lieu of Ash Content and shall meet a minimum of 97.5 percent

The different grades are, in general, used for the following.

Grade	Use
SS-1, SS-1h, RS-1, RS-2, CSS-1, CRS-1, CRS-2, CSS-1h, HFE-90, SS-1hP, CSS-1hP, NTEA (formerly SS-1vh)	Tack Coat
PEP	Prime Coat
RS-2, HFE-90, HFE-150, HFE-300, CRS-2P (formerly CRSP), HFRS-2P (formerly HFP), CRS-2, HFRS-2	Bituminous Surface Treatment
CQS-1hP (formerly CSS-1h Latex Modified)	Micro-Surfacing Slurry Sealing Cape Seal"

80415

### **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."

80388

### FUEL COST ADJUSTMENT (BDE)

Effective: April 1, 2009 Revised: August 1, 2017

<u>Description</u>. Fuel cost adjustments will be made to provide additional compensation to the Contractor, or a credit to the Department, for fluctuations in fuel prices when optioned by the Contractor. The bidder shall indicate with their bid whether or not this special provision will be part of the contract. Failure to indicate "Yes" for any category of work will make that category of work exempt from fuel cost adjustment.

General. The fuel cost adjustment shall apply to contract pay items as grouped by category. The adjustment shall only apply to those categories of work checked "Yes", and only when the cumulative plan quantities for a category exceed the required threshold. Adjustments to work items in a category, either up or down, and extra work paid for by agreed unit price will be subject to fuel cost adjustment only when the category representing the added work was subject to the fuel cost adjustment. Extra work paid for at a lump sum price or by force account will not be subject to fuel cost adjustment. Category descriptions and thresholds for application and the fuel usage factors which are applicable to each are as follows:

### (a) Categories of Work.

- (1) Category A: Earthwork. Contract pay items performed under Sections 202, 204, and 206 including any modified standard or nonstandard items where the character of the work to be performed is considered earthwork. The cumulative total of all applicable item plan quantities shall exceed 25,000 cu yd (20,000 cu m). Included in the fuel usage factor is a weighted average 0.10 gal/cu yd (0.50 liters/cu m) factor for trucking.
- (2) Category B: Subbases and Aggregate Base Courses. Contract pay items constructed under Sections 311, 312 and 351 including any modified standard or nonstandard items where the character of the work to be performed is considered construction of a subbase or aggregate, stabilized or modified base course. The cumulative total of all applicable item plan quantities shall exceed 5000 tons (4500 metric tons). Included in the fuel usage factor is a 0.60 gal/ton (2.50 liters/metric ton) factor for trucking.
- (3) Category C: Hot-Mix Asphalt (HMA) Bases, Pavements and Shoulders. Contract pay items constructed under Sections 355, 406, 407 and 482 including any modified standard or nonstandard items where the character of the work to be performed is considered HMA bases, pavements and shoulders. The cumulative total of all applicable item plan quantities shall exceed 5000 tons (4500 metric tons). Included in the fuel usage factor is 0.60 gal/ton (2.50 liters/metric ton) factor for trucking.
- (4) Category D: Portland Cement Concrete (PCC) Bases, Pavements and Shoulders. Contract pay items constructed under Sections 353, 420, 421 and 483 including any

modified standard or nonstandard items where the character of the work to be performed is considered PCC base, pavement or shoulder. The cumulative total of all applicable item plan quantities shall exceed 7500 sq yd (6000 sq m). Included in the fuel usage factor is 1.20 gal/cu yd (5.94 liters/cu m) factor for trucking.

(5) Category E: Structures. Structure items having a cumulative bid price that exceeds \$250,000 for pay items constructed under Sections 502, 503, 504, 505, 512, 516 and 540 including any modified standard or nonstandard items where the character of the work to be performed is considered structure work when similar to that performed under these sections and not included in categories A through D.

### (b) Fuel Usage Factors.

English Units		
Category	Factor	Units
A - Earthwork	0.34	gal / cu yd
B – Subbase and Aggregate Base courses	0.62	gal / ton
C – HMA Bases, Pavements and Shoulders	1.05	gal / ton
D – PCC Bases, Pavements and Shoulders	2.53	gal / cu yd
E – Structures	8.00	gal / \$1000
Matria I laita		
Metric Units		11.4
Category	Factor	Units
A - Earthwork	1.68	liters / cu m
B – Subbase and Aggregate Base courses	2.58	liters / metric ton
C – HMA Bases, Pavements and Shoulders	4.37	liters / metric ton
D – PCC Bases, Pavements and Shoulders	12.52	liters / cu m
E – Structures	30.28	liters / \$1000

### (c) Quantity Conversion Factors.

Category	Conversion	Factor
В	sq yd to ton sq m to metric ton	0.057 ton / sq yd / in depth 0.00243 metric ton / sq m / mm depth
С	sq yd to ton sq m to metric ton	0.056 ton / sq yd / in depth 0.00239 m ton / sq m / mm depth
D	sq yd to cu yd sq m to cu m	0.028 cu yd / sq yd / in depth 0.001 cu m / sq m / mm depth

Method of Adjustment. Fuel cost adjustments will be computed as follows.

 $CA = (FPI_P - FPI_L) \times FUF \times Q$ 

Where: CA = Cost Adjustment, \$

FPI<sub>P</sub> = Fuel Price Index, as published by the Department for the month the work is performed, \$/gal (\$/liter)

FPI<sub>L</sub> = Fuel Price Index, as published by the Department for the month prior to the letting for work paid for at the contract price; or for the month the agreed unit price letter is submitted by the Contractor for extra work paid for by agreed unit price, \$/gal (\$/liter)

FUF = Fuel Usage Factor in the pay item(s) being adjusted

Q = Authorized construction Quantity, tons (metric tons) or cu yd (cu m)

The entire FUF indicated in paragraph (b) will be used regardless of use of trucking to perform the work.

<u>Basis of Payment</u>. Fuel cost adjustments may be positive or negative but will only be made when there is a difference between the  $FPI_L$  and  $FPI_P$  in excess of five percent, as calculated by:

Percent Difference =  $\{(FPI_L - FPI_P) \div FPI_L\} \times 100$ 

Fuel cost adjustments will be calculated for each calendar month in which applicable work is performed; and will be paid or deducted when all other contract requirements for the items of work are satisfied. The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

80229

### HOT-MIX ASPHALT - BINDER AND SURFACE COURSE (BDE)

Effective: July 2, 2019 Revised: November 1, 2019

<u>Description</u>. This work shall consist of constructing a hot-mix asphalt (HMA) binder and/or surface course on a prepared base. Work shall be according to Sections 406 and 1030 of the Standard Specifications, except as modified herein.

Materials. Add the following after the second paragraph of Article 1003.03(c):

"For mixture IL-9.5FG, at least 67 percent of the required fine aggregate fraction shall consist of either stone sand, slag sand, steel slag sand, or combinations thereof meeting FA 20 gradation."

Revise Article 1004.03(c) to read:

"(c) Gradation. The coarse aggregate gradations shall be as listed in the following table.

Use	Size/Application Gradation No	
Class A-1, A-2, & A-3	3/8 in. (10 mm) Seal CA 16 or CA 20	
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & A-3	Cover Coat	CA 14
	IL-19.0	CA 11 <sup>1/</sup>
HMA High ESAL	SMA 12.5 <sup>2/</sup>	CA 13, CA 14, or CA 16
	SMA 9.5 <sup>2/</sup>	CA 13 or CA 16 3/
	IL-9.5	CA 16
	IL-9.5FG	CA 16
HMA Low ECAL	IL-19.0L	CA 11 <sup>1/</sup>
HMA Low ESAL	IL-9.5L	CA 16

- 1/ CA 16 or CA 13 may be blended with the CA 11.
- 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/ The specified coarse aggregate gradations may be blended."

HMA Nomenclature. Revise the "High ESAL" portion of the table in Article 1030.01 to read:

"High ESAL	Binder Courses	IL-19.0, IL-9.5, IL-9.5FG, IL-4.75,
1 11g11 207 12	Billiadi Coalcoo	SMA 12.5. SMA 9.5

Surface Courses	IL-9.5, IL-9.5FG,
Surface Courses	SMA 12.5, SMA 9.5"

 $\underline{\text{Mixture Design}}$ . Revise the table in Article 1030.04(a)(1) and add SMA 9.5 and IL-9.5FG mixture compositions as follows:

"HIGH ESAL, MIXTURE COMPOSITION (% PASSING) 1/						
Sieve Size	Siovo Sizo SMA 12.5 <sup>5/</sup>		SMA	A 9.5 <sup>5/</sup>	IL-9.5FG	
Sieve Size	min.	max.	min.	max.	min.	max.
1 in. (25 mm)						
3/4 in. (19 mm)		100		100		
1/2 in. (12.5 mm)	90	99	95	100		100
3/8 in. (9.5 mm)	50	85	70	95	90	100
#4 4.75 mm)	20	40	30	50	60	75
#8 (2.36 mm)	16	24 <sup>4/</sup>	20	30	45	60
#16 (1.18 mm)				21	25	40
#30 (600 μm)				18	15	30
#50 (300 μm)				15	8	15
#100 (150 μm)					6	10
#200 (75 μm)	8.0	11.0 <sup>3/</sup>	8.0	11.0 <sup>3/</sup>	4.0	6.5
#635 (20 μm)		≤ 3.0		≤ 3.0		
Ratio of Dust/Asphalt Binder						1.0

<sup>1/</sup> Based on percent of total aggregate weight.

<sup>2/</sup> 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/ When establishing the adjusted job mix formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above 24 percent.
- 5/ When the bulk specific gravity (Gsb) of the component aggregates vary by more than 0.2, the blend gradations shall be based on volumetric percentage."

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

"VOLUMETRIC REQUIREMENTS, High ESAL				
Ndesign	Voids in the Mineral Aggregate (VMA), % minimum Asphalt Binder			
Nuesign	IL-19.0	IL-9.5 IL-9.5FG	IL-4.75 <sup>1/</sup>	(VFA),%
50			18.5	65 - 78 <sup>2/</sup>
70	13.5	15.0		65 – 75 <sup>3/</sup>
90				65 – 75 **

- 1/ Maximum draindown for IL-4.75 shall be 0.3 percent.
- 2/ VFA for IL-4.75 shall be 76-83 percent.
- 3/ VFA for IL-9.5FG shall be 65-78 percent."

Revise the table in Article 1030.04(b)(3) to read:

"VOLUMETRIC REQUIREMENTS, SMA 12.5 1/ and SMA 9.5 1/				
ESALs (million) Ndesign Design Air Voids Target, %		Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %	
≤ 10	50	4.0	16.0	75 – 80
> 10	80	4.0	17.0	75 – 80

1/ Maximum draindown shall be 0.3 percent."

Quality Control/Quality Assurance (QC/QA). Revise the third paragraph of Article 1030.05(d)(3) to read:

"If the Contractor and Engineer agree the nuclear density test method is not appropriate for the mixture, cores shall be taken at random locations determined according to the QC/QA document "Determination of Random Density Test Site Locations". Core densities shall be determined using the Illinois Modified AASHTO T 166 or T 275 procedure."

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

"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 one-minute 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.

When a longitudinal joint sealant (LJS) is applied, longitudinal joint density testing will not be required on the joint(s) sealed."

Revise the second table in Article 1030.05(d)(4) and its notes to read:

"DENSITY CONTROL LIMITS			
Mixture Composition	Parameter	Individual Test (includes confined edges)	Unconfined Edge Joint Density, minimum
IL-4.75	Ndesign = 50	93.0 – 97.4 % <sup>1/</sup>	91.0%
IL-9.5FG	Ndesign = 50 - 90	93.0 – 97.4 %	91.0%
IL-9.5	Ndesign = 90	92.0 – 96.0 %	90.0%
IL-9.5, IL-9.5L,	-9.5, IL-9.5L, Ndesign < 90		90.0%
IL-19.0	19.0 Ndesign = 90		90.0%
IL-19.0, IL-19.0L	Ndesign < 90	93.0 <sup>2/</sup> – 97.4 %	90.0%
SMA	Ndesign = 50 or 80	93.5 – 97.4 %	91.0%

<sup>1/</sup> Density shall be determined by cores or by correlated, approved thin lift nuclear gauge.

2/ 92.0 % when placed as first lift on an unimproved subgrade."

Equipment. Add the following to Article 1101.01 of the Standard Specifications:

- "(h) Oscillatory Roller. The oscillatory roller shall be self-propelled and provide a smooth operation when starting, stopping, or reversing directions. The oscillatory roller shall be able to operate in a mode that will provide tangential impact force with or without vertical impact force by using at least one drum. The oscillatory roller shall be equipped with water tanks and sprinkling devices, or other approved methods, which shall be used to wet the drums to prevent material pickup. The drum(s) amplitude and frequency of the tangential and vertical impact force shall be approximately the same in each direction and meet the following requirements:
  - (1) The minimum diameter of the drum(s) shall be 42 in. (1070 mm);
  - (2) The minimum length of the drum(s) shall be 57 in. (1480 mm);
  - (3) The minimum unit static force on the drum(s) shall be 125 lb/in. (22 N/m); and
  - (4) The minimum force on the oscillatory drum shall be 18,000 lb (80 kN)."

### **CONSTRUCTION REQUIREMENTS**

Add the following to Article 406.03 of the Standard Specifications:

"(j) Oscillatory Roller ......1101.01"

Revise the third paragraph of Article 406.05(a) to read:

"All depressions of 1 in. (25 mm) or more in the surface of the existing pavement shall be filled with binder. At locations where heavy disintegration and deep spalling exists, the area shall be cleaned of all loose and unsound material, tacked, and filled with binder (hand method)."

Revise Article 406.05(c) to read.

"(c) Binder (Hand Method). Binder placed other than with a finishing machine will be designated as binder (hand method) and shall be compacted with a roller to the satisfaction of the Engineer. Hand tamping will be permitted when approved by the Engineer."

Revise the special conditions for mixture IL-4.75 in Article 406.06(b)(2)e. to read:

"e. The mixture shall be overlaid within 5 days of being placed."

Revise Article 406.06(d) to read:

"(d) Lift Thickness. The minimum compacted lift thickness for HMA binder and surface courses shall be as follows.

MINIMUM COMPACTED LIFT THICKNESS		
Mixture Composition Thickness, in. (mm)		
IL-4.75	3/4 (19) - over HMA surfaces <sup>1/</sup> 1 (25) - over PCC surfaces <sup>1/</sup>	
IL-9.5FG	1 1/4 (32)	
IL-9.5, IL-9.5L	1 1/2 (38)	
SMA 9.5	1 1/2 (38)	
SMA 12.5	2 (51)	
IL-19.0, IL-19.0L	2 1/4 (57)	

<sup>1/</sup> The maximum compacted lift thickness for mixture IL-4.75 shall be 1 1/4 in. (32 mm)."

Revise Table 1 and Note 3/ of Table 1 in Article 406.07(a) of the Standard Specifications to read:

"TABLE 1 - MINIMUM ROLLER REQUIREMENTS FOR HMA				
	Breakdown Roller (one of the following)	Intermediate Roller	Final Roller (one or more of the following)	Density Requirement
Binder and Surface 1/	V <sub>D</sub> , P <sup>3/</sup> , T <sub>B</sub> , 3W, O <sub>T</sub> , O <sub>B</sub>	P <sup>3/</sup> , O <sub>T</sub> , O <sub>B</sub>	$V_S$ , $T_B$ , $T_{F_i}$ $O_T$	As specified in Articles: 1030.05(d)(3), (d)(4), and (d)(7).
IL-4.75 and SMA 4/5/	T <sub>B</sub> , 3W, O <sub>T</sub>		$T_F$ , $3W$ , $O_T$	
Bridge Decks <sup>2/</sup>	Тв		T <sub>F</sub>	As specified in Articles 582.05 and 582.06.

<sup>3/</sup> A vibratory roller (V<sub>D</sub>) or oscillatory roller (O<sub>T</sub> or O<sub>B</sub>) may be used in lieu of the pneumatic-tired roller on mixtures containing polymer modified asphalt binder."

Add the following to EQUIPMENT DEFINITION in Article 406.07(a) contained in the Errata of the Supplemental Specifications:

- "O<sub>T</sub> Oscillatory roller, tangential impact mode. Maximum speed is 3.0 mph (4.8 km/h) or 264 ft/min (80 m/min).
- O<sub>B</sub> Oscillatory roller, tangential and vertical impact mode, operated at a speed to produce not less than 10 vertical impacts/ft (30 impacts/m)."

<u>Basis of Payment</u>. Replace the second through the fifth paragraphs of Article 406.14 with the following:

"HMA binder and surface courses will be paid for at the contract unit price per ton (metric ton) for MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS; HOT-MIX ASPHALT BINDER COURSE (HAND METHOD), of the Ndesign specified; HOT-MIX ASPHALT BINDER COURSE, of the mixture composition and Ndesign specified; HOT-MIX ASPHALT SURFACE COURSE, of the mixture composition, friction aggregate, and Ndesign specified; POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, of the mixture composition and Ndesign specified; POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, of the mixture composition and Ndesign specified; POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, of the mixture composition, friction aggregate, and Ndesign specified; POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified; POLYMERIZED HOT-MIX ASPHALT, of the mixture composition, friction aggregate, and Ndesign specified."

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

Effective: January 1, 2018 Revised: March 1, 2019

<u>Description</u>. In addition to those manufactured according to the current standards included in this contract, manholes, valve vaults, and flat slab tops manufactured prior to March 1, 2019, according to the previous Highway Standards listed below will be accepted on this contract:

Product	Pre	evious Standar	ds
Precast Manhole Type A, 4' (1.22 m) Diameter	602401-05	602401-04	602401-03
Precast Manhole Type A, 5' (1.52 m) Diameter	602402-01	602402	602401-03
Precast Manhole Type A, 6' (1.83 m) Diameter	602406-09	602406-08	602406-07
Precast Manhole Type A, 7' (2.13 m) Diameter	602411-07	602411-06	602411-05
Precast Manhole Type A, 8' (2.44 m) Diameter	602416-07	602416-06	602416-05
Precast Manhole Type A, 9' (2.74 m) Diameter	602421-07	602421-06	602421-05
Precast Manhole Type A, 10' (3.05 m) Diameter	602426-01	602426	
Precast Valve Vault Type A, 4' (1.22 m) Diameter	602501-04	602501-03	602501-02
Precast Valve Vault Type A, 5' (1.52 m) Diameter	602506-01	602506	602501-02
Precast Reinforced Concrete Flat Slab Top	602601-05	602601-04	

The following revisions to the Standard Specifications shall apply to manholes, valve vaults, and flat slab tops manufactured according to the current standards included in this contract:

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

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:

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

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 manufactured according to AASHTO M 199 (M 199M), except the minimum wall thickness shall be as shown on the plans. 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."

## **MOBILIZATION (BDE)**

Effective: April 1, 2020

Replace Articles 671.02(a), (b), and (c) of the Standard Specifications with the following:

- "(a) Upon execution of the contract, 90 percent of the pay item will be paid.
- (b) When 90 percent of the adjusted contract value is earned, the remaining ten percent of the pay item will be paid along with any amount bid in excess of six percent of the original contract amount."

## 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:

"TABLI	"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	4.0 - 8.0"		
	PP-4 PP-5	1.0 0.0		

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."

#### RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (BDE)

Effective: November 1, 2012 Revised: January 2, 2020

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 produced by cold milling or crushing an existing hot-mix asphalt (HMA) pavement. 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 93 percent passing the #4 (4.75 mm) sieve based on a dry shake gradation. RAS shall be uniform in gradation and asphalt binder content and 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. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. "Homogeneous Surface").

Prior to milling, the Contractor shall request the District provide documentation on the quality of the RAP to clarify the appropriate stockpile.

(1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) 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 fractionated prior to testing by screening into a minimum of two size 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 shall pass the sieve size specified below for the mix into which the FRAP will be incorporated.

Mixture FRAP will be used in:	Sieve Size that 100 % of FRAP Shall Pass
IL-19.0	1 1/2 in. (37.5 mm)
SMA 12.5	1 in. (25.0 mm)
IL-9.5, IL-9.5FG, SMA 9.5	3/4 in. (19.0 mm)
IL-4.75	1/2 in. (12.5 mm)

- (2) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogeneous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) 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 prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag.
- (4) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP/FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, 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 not be intermingled. Each stockpile shall be signed indicating what type of RAS is present.

Unless otherwise specified by the Engineer, mechanically blending manufactured sand (FM 20 or FM 22) up to an equal weight of RAS with the processed RAS will be permitted

to improve workability. The sand shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The sand shall be 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.** RAP/FRAP and RAS testing shall be according to the following.

- (a) RAP/FRAP Testing. When used in HMA, the RAP/FRAP shall be sampled and tested either during or after stockpiling.
  - (1) 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) 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.

Each sample shall be split to obtain two equal 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 or RAS blended with manufactured sand shall be sampled and tested during stockpiling according to Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Source".

Samples shall be collected during stockpiling 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 250 tons (225 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 or RAS blended with manufactured sand shall be stockpiled 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.

Before testing, each sample shall be split to obtain two test samples. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall perform a washed extraction and test for unacceptable materials on 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.

If the sampling and testing was performed at the shingle processing facility in accordance with the QC Plan, the Contractor shall obtain and make available all of the test results from start of the initial stockpile.

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

(a) Evaluation of RAP/FRAP Test Results. All of the extraction results shall be compiled and averaged for asphalt binder content and gradation, and when applicable G<sub>mm</sub>. Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	FRAP/Homogeneous/ Conglomerate
1 in. (25 mm)	
1/2 in. (12.5 mm)	± 8 %
No. 4 (4.75 mm)	± 6 %
No. 8 (2.36 mm)	± 5 %
No. 16 (1.18 mm)	
No. 30 (600 µm)	± 5 %
No. 200 (75 μm)	± 2.0 %
Asphalt Binder	$\pm$ 0.4 % <sup>1/</sup>
G <sub>mm</sub>	± 0.03

1/ The tolerance for FRAP shall be  $\pm$  0.3 %.

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, the RAP/FRAP shall not be used in HMA unless the RAP/FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

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

(b) Evaluation of RAS and RAS Blended with Manufactured Sand 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. Individual test results, when compared to the averages, 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)	± 2.0 %
Asphalt Binder Content	± 1.5 %

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, or if the percent unacceptable material exceeds 0.5 percent by weight of material retained on the # 4 (4.75 mm) sieve, the RAS or RAS blend shall not be used in Department projects. All test data and acceptance ranges shall be sent to the District for evaluation.

#### 1031.05 Quality Designation of Aggregate in RAP/FRAP.

- (a) RAP. The aggregate quality of the RAP for homogeneous and conglomerate 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, Superpave/HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
  - (2) RAP from Class I binder, Superpave/HMA (High ESAL) binder, or (Low ESAL) IL-19.0L binder mixtures are designated as containing Class C 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. Coarse and fine FRAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5000 tons (4500 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.

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

- (a) RAP/FRAP. The use of RAP/FRAP in HMA shall be as follows.
  - (1) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
  - (2) Steel Slag Stockpiles. Homogeneous RAP stockpiles containing steel slag will be approved for use in all HMA (High ESAL and Low ESAL) Surface and Binder Mixture applications.
  - (3) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be FRAP or homogeneous in which the coarse aggregate is Class B quality or better. FRAP from Conglomerate stockpiles shall be considered equivalent to limestone for frictional considerations. Known frictional contributions from plus #4 (4.75 mm) homogeneous FRAP stockpiles will be accounted for in meeting frictional requirements in the specified mixture.
  - (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP, homogeneous, or conglomerate, in which the coarse aggregate is Class C quality or better.
  - (5) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, homogeneous, or conglomerate.
  - (6) When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in Article 1031.06(c)(1) below for a given Ndesign.
- (b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.
- (c) RAP/FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with RAP or FRAP in HMA mixtures up to a maximum of 5.0 percent by weight of the total mix.
  - (1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the following table.

#### RAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

HMA Mixtures 1/2/	RAP/RAS Maximum ABR %		
Ndesign	Binder	Surface	Polymer Modified Binder or Surface
30	30	30	10

50	25	15	10
70	15	10	10
90	10	10	10

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the RAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28). If warm mix asphalt (WMA) technology is utilized and production temperatures do not exceed 275 °F (135 °C), the high and low virgin asphalt binder grades shall each be reduced by one grade when RAP/RAS ABR exceeds 25 percent (i.e. 26 percent RAP/RAS ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).
- (2) FRAP/RAS. When FRAP is used alone or FRAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the following table.

FRAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

HMA Mixtures 1/2/	FRAP/RAS Maximum ABR %		
Ndesign	Binder Surface Polymer Modific		
30	50	40	10
50	40	35	10
70	40	30	10
90	40	30	10
SMA			20
IL-4.75			30

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the FRAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When FRAP/RAS ABR exceeds 20 percent for all mixes, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28). If warm mix asphalt (WMA) technology is utilized and production temperatures do not exceed 275 °F (135 °C), the high and low virgin asphalt binder grades shall each be reduced by one grade when FRAP/RAS ABR exceeds 25 percent (i.e. 26 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).

**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) RAP/FRAP and/or RAS. RAP/FRAP and/or RAS mix designs shall be submitted for verification. If additional RAP/FRAP and/or RAS stockpiles are tested and found that no more than 20 percent of the results, as defined under "Testing" herein, are outside of the control tolerances set for the original RAP/FRAP and/or RAS stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP/FRAP and/or RAS stockpiles may be used in the original mix 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 bulk specific gravities ( $G_{sb}$ ) shall be according to the "Determination of Aggregate Bulk (Dry) Specific Gravity ( $G_{sb}$ ) of 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 RAP/FRAP and/or RAS shall be as follows.

(a) RAP/FRAP. The coarse aggregate in all RAP/FRAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced.

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 RAP feed system to remove or reduce oversized material.

If the RAP/FRAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP/FRAP and either switch to the virgin aggregate design or submit a new RAP/FRAP design.

- (b) 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 ± 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.
- (c) RAP/FRAP and/or RAS. HMA plants utilizing RAP/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 RAP/FRAP/RAS 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 RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.
- Aggregate and RAP/FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP/FRAP are printed in wet condition.)

#### (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).
- e. RAP/FRAP/RAS weight to the nearest pound (kilogram).
- f. Virgin asphalt binder weight to the nearest pound (kilogram).
- g. Residual asphalt binder in the RAP/FRAP/RAS 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 in aggregate surface course (temporary access entrances only) and aggregate wedge shoulders, Type B 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".
- (b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted."

#### REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2019 Revised: January 1, 2020

Revise Section 669 of the Standard Specifications to read:

## "SECTION 669. REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

**669.01 Description.** This work shall consist of the transportation and proper disposal of regulated substances. This work shall also consist of the removal, transportation, and proper disposal of underground storage tanks (UST), their contents and associated underground piping to the point where the piping is above the ground, including determining the content types and estimated quantities.

**669.02 Equipment.** The Contractor shall notify the Engineer of the delivery of all excavation, storage, and transportation equipment to a work area location. The equipment shall comply with OSHA and American Petroleum Institute (API) guidelines and shall be furnished in a clean condition. Clean condition means the equipment does not contain any residual material classified as a non-special waste, non-hazardous special waste, or hazardous waste. Residual materials include, but are not limited to, petroleum products, chemical products, sludges, or any other material present in or on equipment.

Before beginning any associated soil or groundwater management activity, the Contractor shall provide the Engineer with the opportunity to visually inspect and approve the equipment. If the equipment contains any contaminated residual material, decontamination shall be performed on the equipment as appropriate to the regulated substance and degree of contamination present according to OSHA and API guidelines. All cleaning fluids used shall be treated as the contaminant unless laboratory testing proves otherwise.

**669.03 Pre-Construction Submittals and Qualifications.** Prior to beginning this work, or working in areas with regulated substances, the Contractor shall submit a "Regulated Substances Pre-Construction Plan (RSPCP)" to the Engineer for review and approval using form BDE 2730. The form shall be signed by an Illinois licensed Professional Engineer or Professional Geologist.

As part of the RSPCP, the Contractor(s) or firm(s) performing the work shall meet the following qualifications.

(a) Regulated Substances Monitoring. Qualification for environmental observation and field screening of regulated substances work and environmental observation of UST removal shall require either pre-qualification in Hazardous Waste by the Department or demonstration of acceptable project experience in remediation and operations for contaminated sites in accordance with applicable Federal, State, or local regulatory requirements using BDE 2730.

- Qualification for each individual performing regulated substances monitoring shall require a minimum of one-year of experience in similar activities as those required for the project.
- (b) Underground Storage Tank Removal. Qualification for underground storage tank (UST) removal work shall require licensing and certification with the Office of the State Fire Marshall (OSFM) and possession of all permits required to perform the work. A copy of the permit shall be provided to the Engineer prior to tank removal.

The qualified Contractor(s) or firm(s) shall also document it does not have any current or former ties with any of the properties contained within, adjoining, or potentially affecting the work.

The Engineer will require up to 21 calendar days for review of the RSPCP. The review may involve rejection or revision and resubmittal; in which case, an additional 21 days will be required for each subsequent review. Work shall not commence until the RSPCP has been approved by the Engineer. After approval, the RSPCP shall be revised as necessary to reflect changed conditions in the field and documented using BDE 2730A "Regulated Substances Pre-Construction Plan (RSPCP) Addendum" and submitted to the Engineer for approval.

#### **CONSTRUCTION REQUIREMENTS**

- **Regulated Substances Monitoring.** Regulated substances monitoring includes environmental observation and field screening during regulated substances management activities at the contract specific work areas. As part of the regulated substances monitoring, the monitoring personnel shall perform and document the applicable duties listed on form BDE 2732 "Regulated Substances Monitoring Daily Record (RSMDR)".
  - (a) Environmental Observation. Prior to beginning excavation, the Contractor shall mark the limits of the contract specific work areas. Once work begins, the monitoring personnel shall be present on-site continuously during the excavation and loading of material.
  - (b) Field Screening. Field screening shall be performed during the excavation and loading of material from the contract specific work areas, except for material classified according to Article 669.05(b)(1) or 669.05(c) where field screening is not required.

Field screening shall be performed with either a photoionization detector (PID) (minimum 10.6eV lamp) or a flame ionization detector (FID), and other equipment as appropriate, to monitor for potential contaminants associated with regulated substances. The PID or FID shall be calibrated on-site, and background level readings taken and recorded daily, and as field and weather conditions change. Field screen readings on the PID or FID in excess of background levels indicates the potential presence of regulated substances requiring handling as a non-special waste, special waste, or hazardous waste. PID or FID readings may be used as the basis of increasing the limits of removal with the approval of the Engineer but shall in no case be used to decrease the limits.

**669.05 Regulated Substances Management and Disposal.** The management and disposal of soil and/or groundwater containing regulated substances shall be according to the following:

- (a) Soil Analytical Results Exceed Most Stringent MAC. When the soil analytical results indicate detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in soil established pursuant to Subpart F of 35 III. Adm. Code 1100.605, the soil shall be managed as follows:
  - (1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC, but still considered within area background levels by the Engineer, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable. If the soils cannot be utilized within the right-of-way, they shall be managed and disposed of at a landfill as a non-special waste.
  - (2) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County identified in 35 III. Admin. Code 742 Appendix A. Table G, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of at a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO) within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
  - (3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago or within the Chicago corporate limits provided the pH of the soil is within the range of 6.25 9.0, inclusive.
  - (4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site at a CCDD facility or an USFO within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 9.0, inclusive.
  - (5) When the Engineer determines soil cannot be managed according to Articles 669.05(a)(1) through (a)(4) above and the materials do not contain special waste or hazardous waste, as determined by the Engineer, the soil shall be managed and disposed of at a landfill as a non-special waste.
  - (6) When analytical results indicate soil is hazardous by characteristic or listing pursuant to 35 III. Admin. Code 721, contains radiological constituents, or the Engineer otherwise determines the soil cannot be managed according to Articles 669.05(a)(1)

through (a)(5) above, the soil shall be managed and disposed of off-site as a special waste or hazardous waste as applicable.

- (b) Soil Analytical Results Do Not Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels do not exceed the most stringent MAC, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO for any of the following reasons.
  - (1) The pH of the soil is less than 6.25 or greater than 9.0.
  - (2) The soil exhibited PID or FID readings in excess of background levels.
- (c) Soil Analytical Results Exceed Most Stringent MAC but Do Not Exceed Tiered Approach to Corrective Action Objectives (TACO) Residential. When the soil analytical results indicate that detected levels exceed the most stringent MAC but do not exceed TACO Tier 1 Soil Remediation Objectives for Residential Properties pursuant to 35 III. Admin. Code 742 Appendix B Table A, the excavated soil can be utilized within the right-of-way as embankment or fill, when suitable, or managed and disposed of off-site according to Article 202.03. However, the excavated soil cannot be taken to a CCDD facility or an USFO.
- (d) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 III. Admin. Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste or hazardous waste as applicable. Special waste groundwater shall be containerized and trucked to an off-site treatment facility, or may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority. Groundwater discharged to a sanitary sewer or combined sewer shall be pre-treated to remove particulates and measured with a calibrated flow meter to comply with applicable discharge limits. A copy of the permit shall be provided to the Engineer prior to discharging groundwater to the sanitary sewer or combined sewer.

Groundwater encountered within trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench, it may be discharged to a sanitary sewer or combined sewer when permitted by the local sewer authority, or it shall be containerized and trucked to an off-site treatment facility as a special waste or hazardous waste. The Contractor is prohibited from discharging groundwater within the trench through a storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

One backfill plug shall be placed down gradient to the area of groundwater contamination. Backfill plugs shall be installed at intervals not to exceed 50 ft (15 m). Backfill plugs are to be 4 ft (1.2 m) long, measured parallel to the trench, full trench width and depth. Backfill plugs shall not have any fine aggregate bedding or backfill, but shall be entirely cohesive

soil or any class of concrete. The Contractor shall provide test data that the material has a permeability of less than  $10^{-7}$  cm/sec according to ASTM D 5084, Method A or per another test method approved by the Engineer.

The Contractor shall use due care when transferring contaminated material from the area of origin to the transporter. Should releases of contaminated material to the environment occur (i.e., spillage onto the ground, etc.), the Contractor shall clean-up spilled material and place in the appropriate storage containers as previously specified. Clean-up shall include, but not be limited to, sampling beneath the material staging area to determine complete removal of the spilled material.

The Contractor shall provide engineered barriers, when required, and shall include materials sufficient to completely line excavation surfaces, including sloped surfaces, bottoms, and sidewall faces, within the areas designated for protection.

The Contractor shall obtain all documentation including any permits and/or licenses required to transport the material containing regulated substances to the disposal facility. The Contractor shall coordinate with the Engineer on the completion of all documentation. The Contractor shall make all arrangements for collection and analysis of landfill acceptance testing. The Contractor shall coordinate waste disposal approvals with the disposal facility.

The Contractor shall provide the Engineer with all transport-related documentation within two days of transport or receipt of said document(s). For management of special or hazardous waste, the Contractor shall provide the Engineer with documentation that the Contractor is operating with a valid Illinois special waste transporter permit at least two weeks before transporting the first load of contaminated material.

Transportation and disposal of material classified according to Article 669.05(a)(5) or 669.05(a)(6) shall be completed each day so that none of the material remains on-site by the close of business, except when temporary staging has been approved.

Any waste generated as a special or hazardous waste from a non-fixed facility shall be manifested off-site using the Department's county generator number provided by the Bureau of Design and Environment. An authorized representative of the Department shall sign all manifests for the disposal of the contaminated material and confirm the Contractor's transported volume. Any waste generated as a non-special waste may be managed off-site without a manifest, a special waste transporter, or a generator number.

The Contractor shall select a landfill permitted for disposal of the contaminant within the State of Illinois. The Department will review and approve or reject the facility proposed by the Contractor to use as a landfill. The Contractor shall verify whether the selected disposal facility is compliant with those applicable standards as mandated by their permit and whether the disposal facility is presently, has previously been, or has never been, on the United States Environmental Protection Agency (U.S. EPA) National Priorities List or the Resource Conservation and Recovery Act (RCRA) List of Violating Facilities. The use of a Contractor selected landfill shall in no manner delay the construction schedule or alter the Contractor's responsibilities as set forth.

- **669.06 Non-Special Waste Certification.** An authorized representative of the Department shall sign and date all non-special waste certifications. The Contractor shall be responsible for providing the Engineer with the required information that will allow the Engineer to certify the waste is not a special waste.
  - (a) Definition. A waste is considered a non-special waste as long as it is not:
    - (1) a potentially infectious medical waste;
    - (2) a hazardous waste as defined in 35 III. Admin. Code 721;
    - (3) an industrial process waste or pollution control waste that contains liquids, as determined using the paint filter test set forth in subdivision (3)(A) of subsection (m) of 35 III. Admin. Code 811.107;
    - (4) a regulated asbestos-containing waste material, as defined under the National Emission Standards for Hazardous Air Pollutants in 40 CFR Part 61.141;
    - (5) a material containing polychlorinated biphenyls (PCB's) regulated pursuant to 40 CFR Part 761;
    - (6) a material subject to the waste analysis and recordkeeping requirements of 35 III. Admin. Code 728.107 under land disposal restrictions of 35 III. Admin. Code 728;
    - (7) a waste material generated by processing recyclable metals by shredding and required to be managed as a special waste under Section 22.29 of the Environmental Protection Act; or
    - (8) an empty portable device or container in which a special or hazardous waste has been stored, transported, treated, disposed of, or otherwise handled.
  - (b) Certification Information. All information used to determine the waste is not a special waste shall be attached to the certification. The information shall include but not be limited to:
    - (1) the means by which the generator has determined the waste is not a hazardous waste;
    - (2) the means by which the generator has determined the waste is not a liquid;
    - (3) if the waste undergoes testing, the analytic results obtained from testing, signed and dated by the person responsible for completing the analysis;
    - (4) if the waste does not undergo testing, an explanation as to why no testing is needed;

- (5) a description of the process generating the waste; and
- (6) relevant material safety data sheets.

**669.07 Temporary Staging.** Soil classified according to Articles 669.05(a)(2), (b)(1), or (c) may be temporarily staged at the Contractor's option. Soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) shall be managed and disposed of without temporary staging to the greatest extent practicable. If circumstances beyond the Contractor's control require temporary staging of these latter materials, the Contractor shall request approval from the Engineer in writing.

Temporary staging shall be accomplished within the right-of-way and the Contractor's means and methods shall be described in the approved or amended RSPCP. Staging areas shall not be located within 200 feet (61 m) of a public or private water supply well; nor within 100 feet (30 m) of sensitive environmental receptor areas, including wetlands, rivers, streams, lakes, or designated habitat zones.

The method of staging shall consist of containerization or stockpiling as applicable for the type, classification, and physical state (i.e., liquid, solid, semisolid) of the material. Materials of different classifications shall be staged separately with no mixing or co-mingling.

When containers are used, the containers and their contents shall remain intact and inaccessible to unauthorized persons until the manner of disposal is determined. The Contractor shall be responsible for all activities associated with the storage containers including, but not limited to, the procurement, transport, and labeling of the containers. The Contractor shall not use a storage container if visual inspection of the container reveals the presence of free liquids or other substances that could cause the waste to be reclassified as a hazardous or special waste.

When stockpiles are used, they shall be covered with a minimum 20-mil plastic sheeting or tarps secured using weights or tie-downs. Perimeter berms or diversionary trenches shall be provided to contain and collect for disposal any water that drains from the soil. Stockpiles shall be managed to prevent or reduce potential dust generation.

When staging non-special waste, special waste, or hazardous waste, the following additional requirements shall apply:

- (a) Non-Special Waste. When stockpiling soil classified according to Article 669.05(a)(1) or 669.05(a)(5), an impermeable surface barrier between the materials and the ground surface shall be installed. The impermeable barrier shall consist of a minimum 20-mil plastic liner material and the surface of the stockpile area shall be clean and free of debris prior to placement of the liner. Measures shall also be taken to limit or discourage access to the staging area.
- (b) Special Waste and Hazardous Waste. Soil classified according to Article 669.05(a)(6) shall not be stockpiled but shall be containerized immediately upon generation in containers, tanks or containment buildings as defined by RCRA, Toxic Substances Control

Act (TSCA), and other applicable State or local regulations and requirements, including 35 III. Admin. Code Part 722, Standards Applicable to Generators of Hazardous Waste.

The staging area(s) shall be enclosed (by a fence or other structure) to restrict direct access to the area, and all required regulatory identification signs applicable to a staging area containing special waste or hazardous waste shall be deployed.

Storage containers shall be placed on an all-weather gravel-packed, asphalt, or concrete surface. Containers shall be in good condition and free of leaks, large dents, or severe rusting, which may compromise containment integrity. Containers must be constructed of, or lined with, materials that will not react or be otherwise incompatible with the hazardous or special waste contents. Containers used to store liquids shall not be filled more than 80 percent of the rated capacity. Incompatible wastes shall not be placed in the same container or comingled.

All containers shall be legibly labeled and marked using pre-printed labels and permanent marker in accordance with applicable regulations, clearly showing the date of waste generation, location and/or area of waste generation, and type of waste. The Contractor shall place these identifying markings on an exterior side surface of the container.

Storage containers shall be kept closed, and storage pads covered, except when access is needed by authorized personnel.

Special waste and hazardous waste shall be transported and disposed within 90 days from the date of generation.

**669.08 Underground Storage Tank Removal.** For the purposes of this section, an underground storage tank (UST) includes the underground storage tank, piping, electrical controls, pump island, vent pipes and appurtenances.

Prior to removing an UST, the Engineer shall determine whether the Department is considered an "owner" or "operator" of the UST as defined by the UST regulations (41 III. Adm. Code Part 176). Ownership of the UST refers to the Department's owning title to the UST during storage, use or dispensing of regulated substances. The Department may be considered an "operator" of the UST if it has control of, or has responsibility for, the daily operation of the UST. The Department may however voluntarily undertake actions to remove an UST from the ground without being deemed an "operator" of the UST.

In the event the Department is deemed not to be the "owner" or "operator" of the UST, the OSFM removal permit shall reflect who was the past "owner" or "operator" of the UST. If the "owner" or "operator" cannot be determined from past UST registration documents from OSFM, then the OSFM removal permit will state the "owner" or "operator" of the UST is the Department. The Department's Office of Chief Counsel (OCC) will review all UST removal permits prior to submitting any removal permit to the OSFM. If the Department is not the "owner" or "operator" of the UST then it will not register the UST or pay any registration fee.

The Contractor shall be responsible for obtaining permits required for removing the UST, notification to the OSFM, using an OSFM certified tank contractor, removal and disposal of the UST and its contents, and preparation and submittal of the OSFM Site Assessment Report in accordance with 41 III. Admin. Code Part 176.330.

The Contractor shall contact the Engineer and the OSFM's office at least 72 hours prior to removal to confirm the OSFM inspector's presence during the UST removal. Removal, transport, and disposal of the UST shall be according to the applicable portions of the latest revision of the "American Petroleum Institute (API) Recommended Practice 1604".

The Contractor shall collect and analyze tank content (sludge) for disposal purposes. The Contractor shall remove as much of the regulated substance from the UST system as necessary to prevent further release into the environment. All contents within the tank shall be removed, transported and disposed of, or recycled. The tank shall be removed and rendered empty according to IEPA definition.

The Contractor shall collect soil samples from the bottom and sidewalls of the excavated area in accordance with 35 III. Admin. Code Part 734.210(h) after the required backfill has been removed during the initial response action, to determine the level of contamination remaining in the ground, regardless if a release is confirmed or not by the OSFM on-site inspector.

In the event the UST is designated a leaking underground storage tank (LUST) by the OSFM's inspector, or confirmation by analytical results, the Contractor shall notify the Engineer and the District Environmental Studies Unit (DESU). Upon confirmation of a release of contaminants and notifications to the Engineer and DESU, the Contractor shall report the release to the Illinois Emergency Management Agency (IEMA) (e.g., by telephone or electronic mail) and provide them with whatever information is available ("owner" or "operator" shall be stated as the past registered "owner" or "operator", or the IDOT District in which the tank is located and the DESU Manager).

The Contractor shall perform the following initial response actions if a release is indicated by the OSFM inspector:

- (a) Take immediate action to prevent any further release of the regulated substance to the environment, which may include removing, at the Engineer's discretion, and disposing of up to 4 ft (1.2 m) of the contaminated material, as measured from the outside dimension of the tank;
- (b) Identify and mitigate fire, explosion and vapor hazards;
- (c) Visually inspect any above ground releases or exposed below ground releases and prevent further migration of the released substance into surrounding soils and groundwater; and
- (d) Continue to monitor and mitigate any additional fire and safety hazards posed by vapors and free product that have migrated from the tank excavation zone and entered into subsurface structures (such as sewers or basements).

The tank excavation shall be backfilled according to applicable portions of Sections 205, 208, and 550 with a material that will compact and develop stability. All uncontaminated concrete and soil removed during tank extraction may be used to backfill the excavation, at the discretion of the Engineer.

After backfilling the excavation, the site shall be graded and cleaned.

- **669.09 Regulated Substances Final Construction Report.** Not later than 90 days after completing this work, the Contractor shall submit a "Regulated Substances Final Construction Report (RSFCR)" to the Engineer using form BDE 2733 and required attachments. The form shall be signed by an Illinois licensed Professional Engineer or Professional Geologist.
- **669.10 Method of Measurement.** Non-special waste, special waste, and hazardous waste soil will be measured for payment according to Article 202.07(b) when performing earth excavation, Article 502.12(b) when excavating for structures, or by computing the volume of the trench using the maximum trench width permitted and the actual depth of the trench.

Groundwater containerized and transported off-site for management, storage, and disposal will be measured for payment in gallons (liters).

Backfill plugs will be measured in cubic yards (cubic meters) in place, except the quantity for which payment will be made shall not exceed the volume of the trench, as computed by using the maximum width of trench permitted by the Specifications and the actual depth of the trench, with a deduction for the volume of the pipe.

Engineered Barriers will be measured for payment in square yards (square meters).

**669.11 Basis of Payment.** The work of preparing, submitting and administering a Regulated Substances Pre-Construction Plan will be paid for at the contract lump sum price for REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN.

Regulated substances monitoring, including completion of form BDE 2732 for each day of work, will be paid for at the contract unit price per calendar day, or fraction thereof to the nearest 0.5 calendar day, for REGULATED SUBSTANCES MONITORING.

The installation of engineered barriers will be paid for at the contract unit price per square yard (square meter) for ENGINEERED BARRIER.

The work of UST removal, soil excavation, soil and content sampling, the management of excavated soil and UST content, and UST disposal, will be paid for at the contract unit price per each for UNDERGROUND STORAGE TANK REMOVAL.

The transportation and disposal of soil and other materials from an excavation determined to be contaminated will be paid for at the contract unit price per cubic yard (cubic meter) for NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, or HAZARDOUS WASTE DISPOSAL.

The transportation and disposal of groundwater from an excavation determined to be contaminated will be paid for at the contract unit price per gallon (liter) for SPECIAL WASTE GROUNDWATER DISPOSAL or HAZARDOUS WASTE GROUNDWATER DISPOSAL. When groundwater is discharged to a sanitary or combined sewer by permit, the cost will be paid for according to Article 109.05.

Backfill plugs will be paid for at the contract unit price per cubic yard (cubic meter) for BACKFILL PLUGS.

Payment for temporary staging of soil classified according to Articles 669.05(a)(1), (a)(3), (a)(4), (a)(5), (a)(6), or (b)(2) will be paid for according to Article 109.04. The Department will not be responsible for any additional costs incurred, if mismanagement of the staging area, storage containers, or their contents by the Contractor results in excess cost expenditure for disposal or other material management requirements.

Payment for accumulated stormwater removal and disposal will be according to Article 109.04. Payment will only be allowed if appropriate stormwater and erosion control methods were used.

Payment for decontamination, labor, material, and equipment for monitoring areas beyond the specified areas, with the Engineer's prior written approval, will be according to Article 109.04.

When the waste material for disposal requires sampling for landfill disposal acceptance, the samples shall be analyzed for TCLP VOCs, SVOCs, RCRA metals, pH, ignitability, and paint filter test. The analysis will be paid for at the contract unit price per each for SOIL DISPOSAL ANALYSIS using EPA Methods 1311 (extraction), 8260B for VOCs, 8270C for SVOCs, 6010B and 7470A for RCRA metals, 9045C for pH, 1030 for ignitability, and 9095A for paint filter.

The work of preparing, submitting and administering a Regulated Substances Final Construction Report will be paid for at the contract lump sum price REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT."

# SILT FENCE, INLET FILTERS, GROUND STABILIZATION AND RIPRAP FILTER FABRIC (BDE)

Effective: November 1, 2019

Revised: April 1, 2020

Revise Article 280.02(m) and add Article 280.02(n) so the Standard Specifications read:

- Revise the last sentence of the first paragraph in Article 280.04(c) of the Standard Specifications to read:

"The protection shall be constructed with hay or straw bales, silt filter fence, above grade inlet filters (fitted and non-fitted), or inlet filters.

Revise the first sentence of the second paragraph in Article 280.04(c) of the Standard Specifications to read:

"When above grade inlet filters (fitted and non-fitted) are specified, they shall be of sufficient size to completely span and enclose the inlet structure."

Revise Article 1080.02 of the Standard Specifications to read:

**"1080.02 Geotextile Fabric.** The fabric for silt filter fence shall consist of woven fabric meeting the requirements of AASHTO M 288 for unsupported silt fence.

The fabric for ground stabilization shall consist of woven yarns or nonwoven filaments of polyolefins or polyesters. Woven fabrics shall be Class 2 and nonwoven fabrics shall be Class 1 according to AASHTO M 288.

The physical properties for silt fence and ground stabilization fabrics shall be according to the following.

PHYSICAL PROPERTIES				
	Silt Fence Woven 1/  Ground Stabilization Woven 2/  Ground Stabilization Nonwoven 2/			
Grab Strength, lb (N) <sup>3/</sup> ASTM D 4632	123 (550) MD 101 (450) XD 247 (1100) min. <sup>4</sup> / 202 (900) r			
Elongation/Grab Strain, % ASTM D 4632 4/	49 max. 49 max. 50 mi			
Trapezoidal Tear Strength, lb (N) ASTM D 4533 4/		90 (400) min.	79 (350) min.	

Puncture Strength, lb (N) ASTM D 6241 4/		494 (2200) min.	433 (1925) min.
Apparent Opening Size, Sieve No. (mm) ASTM D 4751 5/	30 (0.60) max.	40 (0.43) max.	40 (0.43) max.
Permittivity, sec <sup>-1</sup> ASTM D 4491	0.05 min.		
Ultraviolet Stability, % retained strength after 500 hours of exposure ASTM D 4355	70 min.	50 min.	50 min.

- 1/ NTPEP results or manufacturer's certification to meet test requirements.
- 2/ NTPEP results to meet test requirements. Manufacturer shall have public release status and current reports on laboratory results in Test Data of NTPEP's DataMine.
- 3/ MD = Machine direction, XD = Cross-machine direction.
- 4/ Values represent the minimum average roll value (MARV) in the weaker principle direction, MD or XD.
- 5/ Values represent the maximum average roll value."

Revise Article 1080.03 of the Standard Specifications to read:

"1080.03 Filter Fabric. The filter fabric shall consist of woven yarns or nonwoven filaments of polyolefins or polyesters. Woven fabrics shall be Class 3 for riprap gradations RR 4 and RR 5, and Class 2 for RR 6 and RR 7 according to AASHTO M 288. Woven slit film geotextiles (i.e. geotextiles made from yarns of a flat, tape-like character) shall not be permitted. Nonwoven fabrics shall be Class 2 for riprap gradations RR 4 and RR 5, and Class 1 for RR 6 and RR 7 according to AASHTO M 288. After forming, the fabric shall be processed so that the yarns or filaments retain their relative positions with respect to each other. The fabric shall be new and undamaged.

The filter fabric shall be manufactured in widths of not less than 6 ft (2 m). Sheets of fabric may be sewn together with thread of a material meeting the chemical requirements given for the yarns or filaments to form fabric widths as required. The sheets of filter fabric shall be sewn together at the point of manufacture or another approved location.

The filter fabric shall be according to the following.

PHYSICAL PROPERTIES 1/					
	Gradation Nos. RR 4 & RR 5		Gradation Nos. RR 6 & RR 7		
	Woven Nonwoven		Woven	Nonwoven	
Grab Strength, lb (N) ASTM D 4632 <sup>2/</sup>	180 (800) min.	157 (700) min.	247 (1100) min.	202 (900) min.	
Elongation/Grab Strain, % ASTM D 4632 2/	49 max.	50 min.	49 max.	50 min.	
Trapezoidal Tear Strength, lb (N) ASTM D 4533 2/	67 (300) min.	56 (250) min.	90 (400) min.	79 (350) min.	
Puncture Strength, lb (N) ASTM D 6241 <sup>2/</sup>	370 (1650) 309 (1375) 494 (2200) 433 (1925) min. min. min. min.				
Ultraviolet Stability, % retained strength after 500 hours of exposure - ASTM D 4355	50 min.				

- 1/ NTPEP results to meet test requirements. Manufacturer shall have public release status and current reports on laboratory results in Test Data of NTPEP's DataMine.
- 2/ Values represent the minimum average roll value (MARV) in the weaker principle direction [machine direction (MD) or cross-machine direction (XD)].

As determined by the Engineer, the filter fabric shall meet the requirements noted in the following after an onsite investigation of the soil to be protected.

Soil by Weight (Mass) Passing	Apparent Opening Size,	Permittivity, sec <sup>-1</sup>
the No. 200 sieve (75 μm), %	Sieve No. (mm) - ASTM D 4751 <sup>1/</sup>	ASTM D 4491
49 max.	60 (0.25) max.	0.2 min.
50 min.	70 (0.22) max.	0.1 min.

1/ Values represent the maximum average roll value."

Revise Article 1081.15(h)(3)a of the Standard Specifications to read:

"a. Inner Filter Fabric Bag. The inner filter fabric bag shall be constructed of woven yarns or nonwoven filaments made of polyolefins or polyesters with a minimum silt and debris capacity of 2.0 cu ft (0.06 cu m). Woven fabric shall be Class 3 and nonwoven fabric shall be Class 2 according to AASHTO M 288. The fabric bag shall be according to the following.

PHYSICAL PROPERTIES		
	Woven	Nonwoven
Grab Strength, lb (N) ASTM D 4632 1/	180 (800) min.	157 (700) min.
Elongation/Grab Strain, % ASTM D 4632 1/	49 max.	50 min.
Trapezoidal Tear Strength, lb (N) ASTM D 4533 1/	67 (300) min.	56 (250) min.
Puncture Strength, lb (N) ASTM D 6241 1/	370 (1650) min.	309 (1375) min.
Apparent Opening Size, Sieve No. (mm) ASTM D 4751 2/	60 (0.25) max.	
Permittivity, sec <sup>-1</sup> ASTM D 4491	2.0 min.	
Ultraviolet Stability, % retained strength after 500 hours of exposure – ASTM D 4355	70 min.	

- 1/ Values represent the minimum average roll value (MARV) in the weaker principle direction [machine direction (MD) or cross-machine direction (XD)].
- 2/ Values represent the maximum average roll value."

Revise Article 1081.15(i)(1) of the Standard Specifications to read:

- "(i) Urethane Foam/Geotextile. Urethane foam/geotextile shall be triangular shaped having a minimum height of 10 in. (250 mm) in the center with equal sides and a minimum 20 in. (500 mm) base. The triangular shaped inner material shall be a low density urethane foam. The outer geotextile fabric cover shall consist of woven yarns or nonwoven filaments made of polyolefins or polyesters placed around the inner material and shall extend beyond both sides of the triangle a minimum of 18 in. (450 mm). Woven filter fabric shall be Class 3 and nonwoven filter fabric shall be Class 2 according to AASHTO M 288.
  - (1) The geotextile shall meet the following properties.

PHYSICAL PROPERTIES			
	Woven	Nonwoven	
Grab Strength, lb (N) ASTM D 4632 1/	180 (800) min.	157 (700) min.	
Elongation/Grab Strain, % ASTM D 4632 1/	49 max.	50 min.	
Trapezoidal Tear Strength, lb (N) ASTM D 4533 1/	67 (300) min.	56 (250) min.	
Puncture Strength, lb (N) ASTM D 6241 1/	370 (1650) min.	309 (1375) min.	

Apparent Opening Size, Sieve No. (mm) ASTM D 4751 2/	30 (0.60) max.
Permittivity, sec <sup>-1</sup> ASTM D 4491	2.0 min.
Ultraviolet Stability, % retained strength after 500 hours of exposure – ASTM D 4355	70 min.

- 1/ Values represent the minimum average roll value (MARV) in the weaker principle direction [machine direction (MD) or cross-machine direction (XD)].
- 2/ Values represent the maximum average roll value."

Add the following to Article 1081.15(i) of the Standard Specifications.

"(3) Certification. The manufacturer shall furnish a certificate with each shipment of urethane foam/geotextile assemblies stating the amount of product furnished and that the material complies with these requirements."

Revise the title and first sentence of Article 1081.15(j) of the Standards Specifications to read:

"(j) Above Grade Inlet Filters (Fitted). Above grade inlet filters (fitted) shall consist of a rigid polyethylene frame covered with a fitted geotextile filter fabric."

Revise Article 1081.15(j)(2) of the Standard Specifications to read:

(2) Fitted Geotextile Filter Fabric. The fitted geotextile filter fabric shall consist of woven yarns or nonwoven filaments made of polyolefins or polyesters. Woven filter fabric shall be Class 3 and nonwoven filter fabric shall be Class 2 according to AASHTO M 288. The filter shall be fabricated to provide a direct fit to the frame. The top of the filter shall integrate a coarse screen with a minimum apparent opening size of 1/2 in. (13 mm) to allow large volumes of water to pass through in the event of heavy flows. The filter shall have integrated anti-buoyancy pockets capable of holding a minimum of 3.0 cu ft (0.08 cu m) of stabilization material. Each filter shall have a label with the following information sewn to or otherwise permanently adhered to the outside: manufacturer's name, product name, and lot, model, or serial number. The fitted geotextile filter fabric shall be according to the table in Article 1081.15(h)(3)a above."

Add Article 1081.15(k) to the Standard Specifications to read:

- "(k) Above Grade Inlet Filters (Non-Fitted). Above grade inlet filters (non-fitted) shall consist of a geotextile fabric surrounding a metal frame. The frame shall consist of either a) a circular cage formed of welded wire mesh, or b) a collapsible aluminum frame, as described below.
  - (1) Frame Construction.

- a) Welded Wire Mesh Frame. The frame shall consist of 6 in. x 6 in. (150 mm x 150 mm) welded wire mesh formed of #10 gauge (3.42 mm) steel conforming to ASTM A 185. The mesh shall be 30 in. (750 mm) tall and formed into a 42 in. (1.05 m) minimum diameter cylinder.
- b) Collapsible Aluminum Frame. The collapsible aluminum frame shall consist of grade 6036 aluminum. The frame shall have anchor lugs that attach it to the inlet grate, which shall resist movement from water and debris. The collapsible joints of the frame shall have a locking device to secure the vertical members in place, which shall prevent the frame from collapsing while under load from water and debris.
- (2) Geotextile Fabric. The geotextile fabric shall consist of woven yarns or nonwoven filaments made of polyolefins or polyesters. The woven filter fabric shall be a Class 3 and the nonwoven filter fabric shall be a Class 2 according to AASHTO M 288. The geotextile fabric shall be according to the table in Article 1081.15(h)(3)a above.
- (3) Geotechnical Fabric Attachment to the Frame.
  - a) Welded Wire Mesh Frame. The woven or nonwoven geotextile fabric shall be wrapped 3 in. (75 mm) over the top member of a 6 in. x 6 in. (150 mm x 150 mm) welded wire mesh frame and secured with fastening rings constructed of wire conforming to ASTM A 641, A 809, A 370, and A 938 at 6 in. (150 mm) on center. The fastening rings shall penetrate both layers of geotextile and securely close around the steel mesh. The geotextile shall be secured to the sides of the welded wire mesh with fastening rings at a spacing of 1 per sq ft (11 per sq m) and securely close around a steel member.
  - b) Collapsible Aluminum Frame. The woven or nonwoven fabric shall be secured to the aluminum frame along the top and bottom of the frame perimeter with strips of aluminum secured to the perimeter member, such that the anchoring system provides a uniformly distributed stress throughout the geotechnical fabric.
- (4) Certification. The manufacturer shall furnish a certificate with each shipment of above grade inlet filter assemblies stating the amount of product furnished and that the material complies with these requirements."

## STRUCTURAL TIMBER (BDE)

Effective: August 1, 2019

Revise Article 1007.03 of the Standard Specifications to read:

"1007.03 Structural Timber. Structural timber shall be southern pine, Douglas fir (coast region), or other species listed in Chapter 8 of the AASHTO LRFD Bridge Design Specifications.

- (a) Treated and Untreated Timber. When treated material is specified, the method of treatment shall be according to Article 1007.12. There shall be no heartwood requirements for timber which is to receive a preservative treatment and the amount of sapwood shall not be limited. All timber to be used without preservative treatment shall contain not less than 85 percent of heartwood measured on the girth.
- (b) Standard Sizes and Grading Requirements. Rough cut and surfaced timber shall meet the applicable requirements for size and grading according to ASTM D 245 and the Southern Pine Inspection Bureau, the West Coast Lumber Inspection Bureau, or other agencies accredited by the American Lumber Standard Committee, except as provided herein.

All pieces shall be cut to length with square ends.

The dimensions and surfacing requirements will be shown in the contract.

(c) Strength Requirements. The design strengths for structural timber shall be as shown on the plans, and according to the Southern Pine Inspection Bureau, the West Coast Lumber Inspection Bureau, or other agencies accredited by the American Lumber Standard Committee. Additionally, the design strengths shall be according to Chapter 8 of the AASHTO LRFD Bridge Design Specifications."

## 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 MOBILIZATION PAYMENTS (BDE)**

Effective: November 2, 2017

Revised: April 1, 2019

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

following:

"This mobilization payment shall be made at least seven 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%"

#### TRAFFIC CONTROL DEVICES - CONES (BDE)

Effective: January 1, 2019

Revise Article 701.15(a) of the Standard Specifications to read:

"(a) Cones. Cones are used to channelize traffic. Cones used to channelize traffic at night shall be reflectorized; however, cones shall not be used in nighttime lane closure tapers or nighttime lane shifts."

Revise Article 1106.02(b) of the Standard Specifications to read:

"(b) Cones. Cones shall be predominantly orange. Cones used at night that are 28 to 36 in. (700 to 900 mm) in height shall have two white circumferential stripes. If non-reflective spaces are left between the stripes, the spaces shall be no more than 2 in. (50mm) in width. Cones used at night that are taller than 36 in. (900 mm) shall have a minimum of two white and two fluorescent orange alternating, circumferential stripes with the top stripe being fluorescent orange. If non-reflective spaces are left between the stripes, the spaces shall be no more than 3 in. (75 mm) in width.

The minimum weights for the various cone heights shall be 4 lb for 18 in. (2 kg for 450 mm), 7 lb for 28 in. (3 kg for 700 mm), and 10 lb for 36 in. (5 kg for 900 mm) with a minimum of 60 percent of the total weight in the base. Cones taller than 36 in. shall be weighted per the manufacturer's specifications such that they are not moved by wind or passing traffic."

**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 2. 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 qualify 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.

METHOD OF MEASUREMENT 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.

# WORKING DAYS (BDE)

Effective: January 1, 2002

The Contractor shall complete the work within 80 working days.

# PEDESTRIAN TRUSS SUPERSTRUCTURE

Effective: January 13, 1998 Revised: December 29, 2014

**Description:** This work shall consist of the design, fabrication, storage, delivery and erection of a welded steel, pedestrian truss superstructure. Also included in this work shall be the furnishing and installation of a deck, all bearings, anchors and/or retainers, railings, fencing and miscellaneous items as indicated on the plans.

### Materials:

Truss. Structural steel shall conform to the requirements of Section 1006 of the Standard Specifications, ASTM A847 for cold formed welded square and rectangular tubing, AASHTO M270 Grade 50W (M270M 345W) for atmospheric corrosion resistant structural steel, as applicable, unless otherwise shown on the plans or approved by the Engineer. All structural steel field connections shall be bolted with high strength bolts. High strength bolts for unpainted weathering steel shall conform to ASTM A325 (A325M) (Type 3). For painted structures, the high strength bolts shall be mechanically galvanized according to the requirements of Article 1006.08(a) of the Standard Specifications.

<u>Deck.</u> The deck type shall be as specified on the plans. The materials shall comply with the applicable portions of the materials section of the Standard Specifications.

When specified for use, the concrete deck and stay-in-place forms shall be non composite. Metal Forms shall have a minimum thickness of 0.0359 in. (912 microns) or 20 Gage and shall be galvanized per ASTM A653 (A653M) with a G165 (Z350) min. coating designation.

<u>Railing.</u> The railing shall consist of a smooth rub rail, a toe plate and misc. elements, all located on the inside face of the truss.

<u>Bearings.</u> The bearing shall be designed and furnished as detailed in the plans, in the absence of details, the bearings details shall be as specified by the bridge manufacturer.

When specified for use, elastomeric bearings shall be according to Article 1083 of the Standard Specifications. Teflon surfaces shall be per Article 1083.02(b) of the Standard Specification and shall be bonded to the bearing plate.

<u>Suppliers.</u> The Department maintains a pre-qualified list of proprietary structural systems allowed for pedestrian truss superstructures. This list can be found on the Departments web site under Prequalified Structural Systems. The Contractor's options are limited to those systems pre-qualified by the Department. These systems have been reviewed for structural feasibility and adequacy only. Presence on this list shall in no case relieve the Contractor of the site specific design or QC/QA requirements stated herein.

The manufacturer shall provide evidence of current certification by AISC according to Article 106.08(b) of the Standard Specifications.

**Design:** The superstructure shall conform to the clear span, clear width, and railing configuration shown on the contract plans. The design shall be according to the LRFD Guide Specifications for the Design of Pedestrian Bridges. The design loads shall be as specified by the Guide Specification except as follows:

Design Wind Loads (Pz) for Pedestrian Trusses in Illinois		
Application	psf (kPa)	Applied to:
Circular Members	35 (1.68)	Projected vertical area of member
Flat Members	55 (2.63)	Projected vertical area of member
Signs	35 (1.68)	Projected vertical area of sign
Chain Link Fencing	10 (0.48)	Full projected area of fencing as if solid

The railings shall be designed per the appropriate Bridge Design Specifications for bicycle railings as shown on the plans. Smooth rub rails shall be attached to the bicycle railing and located at a bicycle handlebar height of 3.5 ft. (1.1 m) above the top of the deck.

Prior to beginning construction or fabrication, the Contractor shall submit design calculations and six sets of shop drawings for each pedestrian bridge to the Engineer for review and approval. In addition, for bridges with any span over 150 ft. (46 m), or over a State or Federal Route, or within the States Right-of-Way, a copy of the shop drawings will be reviewed and approved for structural adequacy, by the Bureau of Bridges and Structures prior to final approval of shop drawings. The shop drawings shall include all support reactions for each load type. The following certification shall be placed on the first sheet of the bridge shop plans adjacent to the seal and signature of the Structural Engineer:

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans and complies with the requirements of the Contract and the current 'Guide Specifications for Design of Pedestrian Bridges'."

The substructure is designed per the appropriate Bridge Design Specifications and based on the assumed truss loads, as shown on the plans. If the manufacturer's design exceeds those loads and/or the substructure needs to be adjusted to accommodate the truss superstructure chosen, then the Contractor shall submit the redesign to the Engineer for approval prior to ordering any material or starting construction. All design calculations, shop drawings and redesigned substructure drawings shall be sealed by a Structural Engineer licensed in the State of Illinois.

**Construction:** Truss erection procedures shall be according to the manufacturer's instructions. The deck shall be placed according to the applicable Sections of the Standard Specifications.

When weathering steel is used, all structural steel shall be prepared according to Article 506.07.

When painting is specified, all structural steel shall be cleaned and painted according to Section 506. The paint system and color of the finish coat shall be as specified in the plans.

**Method of Measurement:** The pedestrian truss superstructure will be measured in square feet (square meters) of completed and accepted structure measured horizontally from back to back of abutments and within the clear path width as defined on the plans.

**Basis of Payment:** The pedestrian superstructure will be paid for at the contract unit price per square foot (square meter) for "PEDESTRIAN TRUSS SUPERSTRUCTURE."

### PIPE UNDERDRAINS FOR STRUCTURES

Effective: May 17, 2000 Revised: January 22, 2010

<u>Description</u>. This work shall consist of furnishing and installing a pipe underdrain system as shown on the plans, as specified herein, and as directed by the Engineer.

Materials. Materials shall meet the requirements as set forth below:

The perforated pipe underdrain shall be according to Article 601.02 of the Standard Specifications. Outlet pipes or pipes connecting to a separate storm sewer system shall not be perforated.

The drainage aggregate shall be a combination of one or more of the following gradations, FA1, FA2, CA5, CA7, CA8, CA11, or CA13 thru 16, according to Sections 1003 and 1004 of the Standard Specifications.

The fabric surrounding the drainage aggregate shall be Geotechnical Fabric for French Drains according to Article 1080.05 of the Standard Specifications.

<u>Construction Requirements.</u> All work shall be according to the applicable requirements of Section 601 of the Standard Specifications except as modified below.

The pipe underdrains shall consist of a perforated pipe drain situated at the bottom of an area of drainage aggregate wrapped completely in geotechnical fabric and shall be installed to the lines and gradients as shown on the plans.

<u>Method of Measurement.</u> Pipe Underdrains for Structures shall be measured for payment in feet (meters), in place. Measurement shall be along the centerline of the pipe underdrains. All connectors, outlet pipes, elbows, and all other miscellaneous items shall be included in the measurement. Concrete headwalls shall be included in the cost of Pipe Underdrains for Structures, but shall not be included in the measurement for payment.

<u>Basis of Payment.</u> This work will be paid for at the contract unit price per foot (meter) for PIPE UNDERDRAINS FOR STRUCTURES of the diameter specified. Furnishing and installation of the drainage aggregate, geotechnical fabric, forming holes in structural elements and any excavation required, will not be paid for separately, but shall be included in the cost of the pipe underdrains for structures.

# REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- 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

 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).

- 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-the-job 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  $% \left( 1\right) =\left( 1\right) \left( 1\right)$
  - (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.
- (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, fringes 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 (<a href="https://www.epls.gov/">https://www.epls.gov/</a>), 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.

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# 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 (<a href="https://www.epls.gov/">https://www.epls.gov/</a>), 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

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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.

# MINIMUM WAGES FOR FEDERAL AND FEDERALLY ASSISTED CONSTRUCTION CONTRACTS

This project is funded, in part, with Federal-aid funds and, as such, is subject to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Sta. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in a 29 CFR Part 1, Appendix A, as well as such additional statutes as may from time to time be enacted containing provisions for the payment of wages determined to be prevailing by the Secretary of Labor in accordance with the Davis-Bacon Act and pursuant to the provisions of 29 CFR Part 1. The prevailing rates and fringe benefits shown in the General Wage Determination Decisions issued by the U.S. Department of Labor shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged on contract work of the character and in the localities described therein.

General Wage Determination Decisions, modifications and supersedes decisions thereto are to be used in accordance with the provisions of 29 CFR Parts 1 and 5. Accordingly, the applicable decision, together with any modifications issued, must be made a part of every contract for performance of the described work within the geographic area indicated as required by an applicable DBRA Federal prevailing wage law and 29 CFR Part 5. The wage rates and fringe benefits contained in the General Wage Determination Decision shall be the minimum paid by contractors and subcontractors to laborers and mechanics.