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Letting March 11, 2022

Notice to Bidders, Specifications and Proposal



Contract No. 87760
IROQUOIS County
Section 19-00026-00-PV (Gilman)
Route NORTH CENTRAL STREET
Project B8GH-108 ()
District 3 Construction Funds

Prepared by

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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 12:00 p.m. March 11, 2022 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. 87760
IROQUOIS County
Section 19-00026-00-PV (Gilman)
Project B8GH-108 ()
Route NORTH CENTRAL STREET
District 3 Construction Funds

Roadway reconstruction, Curb & gutter, storm sewers, landscaping, streetscape, lighting, and pavement markings on North Central Street, from Crescent St. to East 3rd. Street, and on East 2nd Street from the IC Railroad to North Central Street, and on East Front Street from North Central St. to North Main Street in Gilman.

- 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 re-advertise the proposed improvement, and to waive technicalities.

By Order of the Illinois Department of Transportation

Omer Osman, Secretary

INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2022

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

No ERRATA this year.

SUPPLEMENTAL SPECIFICATIONS

Std. Spec. Sec. Page No.

No Supplemental Specifications this year.

RECURRING SPECIAL PROVISIONS

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

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LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

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N. Central Street Project B8GH(108) Section 19-00026-00-PV City of Gilman Contract No. 87760

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BDE SPECIAL PROVISIONS

The following special provisions indicated by an "X" are applicable to this contract. An * indicates a new or revised special provision for the letting.

	<u>File</u> Name	<u>Pg.</u>		Special Provision Title	Effective	Revised
*	80099			Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
	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	Jan. 1, 2022
	80436	33	Χ	Blended Finely Divided Minerals	April 1, 2021	
	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
	80384	34	Χ	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	
	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
	80261			Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80434	38	Х	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
	80029	50	Χ	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Mar. 2, 2019
	80229			Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
*	80433			Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
*	80422			High Tension Cable Median Barrier	Jan. 1, 2020	Jan. 1, 2022
*	80442			Hot-Mix Asphalt – Start of Production	Jan. 1, 2022	
*	80438			Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	Sept. 2, 2021
*	80411	60	Х	Luminaires, LED	April 1, 2019	Jan. 1, 2022
*	80045			Material Transfer Device	June 15, 1999	Jan. 1, 2022
	80418			Mechanically Stabilized Earth Retaining Walls	Nov. 1, 2019	Nov. 1, 2020
	80430	69	X	Portland Cement Concrete – Haul Time	July 1, 2020	
*	34261	70	Х	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
	80395			Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
*	80340			Speed Display Trailer	April 2, 2014	Jan. 1, 2022
*	80127			Steel Cost Adjustment	April 2, 2014	Jan. 1, 2022
	80397	71	X	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	72	Х	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80437			Submission of Payroll Records	April 1, 2021	
*	80435			Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2022
al.	80410			Traffic Spotters	Jan. 1, 2019	0 1 0 0001
*	20338			Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
4	80318			Traversable Pipe Grate for Concrete End Sections	Jan. 1, 2013	Jan. 1, 2018
*	80429	70	1/	Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
	80439	73	X	Vehicle and Equipment Warning Lights	Nov. 1, 2021	
	80440	- 4	\ \ \	Waterproofing Membrane System	Nov. 1, 2021	N 4 . 000 t
	80302	74	X	Weekly DBE Trucking Reports	June 2, 2012	Nov. 1, 2021
	80427	7-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Work Zone Traffic Control Devices	Mar. 2, 2020	
	80071	75	X	Working Days	Jan. 1, 2002	

The following special provisions are in the 2022 Supplemental Specifications and Recurring Special Provisions.

<u>File</u> Name	Special Provision Title	New Location(s)	Effective	Revised
80425 80387 80402	Cape Seal Contrast Preformed Pavement Marking Disposal Fees	Sections 405, 1003 Articles 780.08, 1095.03 Article 109.04(b)	Jan. 1, 2020 Nov. 1, 2017 Nov. 1, 2018	Jan. 1, 2021
80378	Dowel Bar Inserter	Articles 420.03, 420.05, 1103.20	Jan. 1, 2017	Jan. 1, 2018
80421 80415	Electric Service Installation Emulsified Asphalts	Articles 804.04, 804.05 Article 1032.06	Jan. 1. 2020 Aug. 1, 2019	
80423	Engineer's Field Office and Laboratory	Section 670	Jan. 1, 2020	
80417	Geotechnical Fabric for Pipe Underdrains and French Drains	Articles 1080.01(a), 1080.05	Nov. 1, 2019	
80420	Geotextile Retaining Walls	Article 1080.06(d)	Nov. 1, 2019	
80304	Grooving for Recessed Pavement Markings	Articles 780.05, 780.14, 780.15	Nov. 1, 2012	Nov. 1, 2020
80416	Hot-Mix Asphalt – Binder and Surface Course	Sections 406, 1003, 1004, 1030, 1101	July 2, 2019	Nov. 1, 2019
80398	Hot-Mix Asphalt – Longitudinal Joint Sealant	Sections 406, 1032	Aug. 1, 2018	Nov. 1, 2019
80406	Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT)	Sections 406, 1030	Jan. 1, 2019	Jan. 2, 2021
80347	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Sections 406, 1030	Nov. 1, 2014	July 2, 2019
80383	Hot-Mix Asphalt – Quality Control for Performance	Sections 406, 1030	April 1, 2017	July 2, 2019
80393	Manholes, Valve Vaults, and Flat Slab Tops	Articles 602.02, 1042.10	Jan. 1, 2018	Mar. 1, 2019
80424	Micro-Surfacing and Slurry Sealing	Sections 404, 1003	Jan. 1, 2020	Jan. 1, 2021
80428	Mobilization	Article 671.02	April 1, 2020	
80412	Obstruction Warning Luminaires, LED	Sections 801, 822, 1067	Aug. 1, 2019	N 4 . 0040
80359	Portland Cement Concrete Bridge Deck Curing	Articles 1020.13, 1022.03	April 1, 2015	Nov. 1, 2019
80431	Portland Cement Concrete Pavement Patching	Articles 701.17(e)(3)b, 1001.01(d), 1020.05(b)(5)	July 1, 2020	
80432	Portland Cement Concrete Pavement Placement	Article 420.07	July 1, 2020	
80300	Preformed Plastic Pavement Marking Type D - Inlaid		April 1, 2012	April 1, 2016
80157	Railroad Protective Liability Insurance (5 and 10)	Article 107.11	Jan. 1, 2006	
80306	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Section 1031	Nov. 1, 2012	Jan. 2, 2021
80407	Removal and Disposal of Regulated Substances	Section 669	Jan. 1, 2019	Jan. 1, 2020
80419	Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric	Articles 280.02, 280.04, 1080.02, 1080.03, 1081.15	Nov. 1, 2019	July 1, 2021
80408	Steel Plate Beam Guardrail Manufacturing	Article 1006.25	Jan. 1, 2019	
80413	Structural Timber	Article 1007.03	Aug. 1, 2019	
80298	Temporary Pavement Marking	Section 703, Article 1095.06	April 1, 2012	April 1, 2017
80409	Traffic Control Devices – Cones	Article 701.15(a), 1106.02(b)	Jan. 1, 2019	A 11.4 00.45
80288	Warm Mix Asphalt	Sections 406, 1030, 1102	Jan. 1, 2012	April 1, 2016
80414	Wood Fence Sight Screen	Article 641.02	Aug. 1, 2019	April 1, 2020



Special Provisions



Local Public Agency	County	Section Number
City of Gilman	Iroquois	19-00026-00-PV
The following Special Provision supplement the "Standard Sp	pecifications for Road and Bridge Co	onstruction", adopted
January 1, 2022 , the later Streets and Highways", and the "Manual of Test Procedures Supplemental Specification and Recurring Special Provisions govern the construction of the above named section, and in a Special Provisions shall take precedence and shall govern.	indicated on the Check Sheet inclu	invitation of bids, and the ded here in which apply to and
LOCATION OF PROJECT		
The project is located in the City of Gilman on Nor East 2nd Street from the IC Railroad Tracks to No Central Street to North Main Street.		
DESCRIPTION OF WORK		
The project scope includes streetscaping improve install new curb and gutter, storm sewer, curb ram landscaping items and other necessary appurtena	nps, HMA pavement, concrete	_ ,
NOTIFICATION OF START		
The Contractor shall notify the Engineer at least for excluded) prior to starting. Failure to provide this i	, , ,	•
	•	
NUCLEAR DENSITY TESTING		
Illinois Department of Transportation Bureau of Lo Curve LR1030 shall be used to determine target d LR1030, shall not be utilized. A copy of Special Provisions	ensities. The core sample, n	oted in Paragraph 5 of
No payment shall be made until all asphalt plant re Engineer.	eports and nuclear density rep	ports are supplied to the
The Nuclear Density Testing shall be considered in	ncidental to the Contract and	no additional compensation

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TEMPORARY ACCESS CONTROL

Due to the commercial nature of the corridor of where the work is being performed, it will be necessary for the Contractor to ensure access is provided throughout the duration of the project and work to minimize any disruptions. Ongoing communication with stakeholders in terms of scope of work and schedule will be vital. Prior to construction commencing, the Contractor shall provide to the Engineer a plan including any details for how access will be maintained to businesses. Acceptable methods for providing access include but are not limited to:

Aggregate for Temporary Access Timber Bridges and Ramps

This work will not be paid for separately but will be considered incidental to the contract.

PREFERRED SEQUENCE OF OPERATIONS

In order to limit the disruption to the traveling public, it will be necessary to limit the work area as much as feasibly possible. It is recommended that the work area be limited to a block at a time following the installation of the storm sewer. The preferred sequence of operations is as follows:

- 1. Install storm sewer
- 2. Install west side curb and gutter
- 3. Install west side sidewalk, planters, signs, and light pole foundations
- 4. Full depth reconstruction of pavement on west half up to binder course
- 5. Install east side curb and gutter
- 6. Install east side sidewalk, planters, signs and light pole foundations
- 7. Full depth reconstruction of pavement on east half up to binder course
- 8. Install curb and gutter and curb ramps at each intersection
- 9. Full depth reconstruction of pavement up to binder course at each intersection
- 10. Alternating installation of paver bricks at crosswalks and surface course
- 11. Remaining installation of landscaping items
- 12. Pavement striping installation
- 13. Punch list items

TRAFFIC CONTROL AND PROTECTION, (SPECIAL)

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, any special details and Highway Standards contained herein and in the plans.

The scope of traffic control shall entail supplying, maintenance and removal of any and all necessary traffic control signage and devices required by these special provisions, the IDOT Standard Specifications for Road and Bridge Construction, latest edition, the IDOT Work Zone Safety Manual, latest edition and MUTCD, latest edition in order to complete the scope of work outlined in the construction documents. Any alteration to these requirements shall not be permitted unless expressed by the Engineer in writing.

Any and all traffic control devices shall also comply with the requirements set forth by the aforementioned guidelines. In the event that there are conflicting guidelines for traffic control, the Contractor shall bring this to the attention of the Engineer or comply with the more stringent of the conflicting guidelines.

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Special attention is called to Sections 107 and 701 through 705 of the Standard Specifications for Road and Bridge Construction, and as amended by the Supplemental Specifications, Recurring Special Provisions, the Special Provisions contained herein, and the following highway standards relating to traffic control:

Highway Standards

701001 701006 701501 701801 701901 District 5 Standard 70200000

Limitations of Construction: The Contractor shall coordinate the items of work in order to keep hazards and traffic inconveniences to a minimum, as specified below.

- 1. The Contractor shall install a 48" x 48" "Road Construction Ahead" sign with appropriate supplemental arrow east and west of North Central Street on US Route 24/45.
- 2. The Contractor shall provide, erect, and maintain all the necessary barricades, cones, drums, and lights for the warning and protection of traffic, as required by Sections 107 and 701 through 703 of the Standard Specifications, and as modified.
- 3. The Contractor shall furnish and erect "Road Construction Ahead" signs (W20-1(0)-48) at both ends of the project and all side roads within the limits of this section when working in the vicinity of the road.
- 4. All Type III barricades will be equipped with two Type A flashers per barricade and Type III barricades with R11-3 signing and shall have reflectorized striping on both sides of the barricades.
- 5. The R11-3 and R11-4 signs shall be mounted on wing barricades as per Traffic Control Standard 701901, placement of the wing barricades shall be on the shoulder. The R11-2 signs shall be mounted on Type III barricades as per Traffic Standard 701901 and also equipped with two Type A flashing lights.
- The use of metal posts and sandbags for temporary signage will be permitted.
- 7. The Contractor will be responsible for the traffic control devices at all times during construction activities and shall coordinate the items of work in order to keep hazard traffic inconveniences to a minimum.

Method of Measurement. This work will be measured on a L SUM basis.

Basis of Payment. This work shall be paid for at the contract unit price per L SUM for TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

Description. This work shall consist of the removal and disposal of regulated substances according to Section 669 of the Standard Specifications as revised below.

Contract Specific Work Areas. The excavated soil and groundwater within the work areas listed below shall be managed as either "uncontaminated soil", hazardous waste, special waste or non-special waste. For stationing, the lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit, whichever is less.

Soil Disposal Analysis. When the waste material requires sampling for landfill disposal acceptance, the Contractor shall secure a written list of the specific analytical parameters and analytical methods required by the landfill. The Contractor shall collect and analyze the required number of samples for the parameters

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required by the landfill using the appropriate analytical procedures. A copy of the required parameters and analytical methods (from landfill email or on landfill letterhead) shall be provided as Attachment 4A of the BDE 2733 (Regulated Substances Final Construction Report). The price shall include all sampling materials and effort necessary for collection and management of the samples, including transportation of samples from the job site to the laboratory. The Contractor shall be responsible for determining the specific disposal facilities to be utilized; and collect and analyze any samples required for disposal facility acceptance using a NELAP certified analytical laboratory registered with the State of Illinois.

The following contract specific work areas shall be monitored by the Environmental Firm for soil contamination and workers protection.

Site 3780-1 – State Farm, 105 E. Crescent Street, Gilman, Iroquois County

All excavation in the northeast quadrant of US 24 and Central Avenue: The Engineer has determined this
material meets the criteria of and shall be managed in accordance to Article 669.05(a)(5). Contaminants of
concern sampling parameters: VOCs, SVOCs, and Metals.

Site 3780-3 – Prospect Bank, 209 South Crescent Street, Gilman, Iroquois County

All excavation in the northwest quadrant of US 24 and Central Avenue: The Engineer has determined this
material meets the criteria of and shall be managed in accordance to Article 669.05(a)(5). Contaminants of
concern sampling parameters: VOCs, SVOCs, and Metals.

Work Zones

Three distinct OSHA HAZWOPER work zones (exclusion, decontamination, and support) shall apply to projects adjacent to or within sites with documented leaking underground storage tank (LUST) incidents, or sites under management in accordance with the requirements of the Site Remediation Program (SRP), Resource Conservation and Recovery Act (RCRA), or Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), or as deemed necessary. For this project, the work zones apply for the following ISGS PESA Sites: None

Additional information on the contract specific work areas listed above collected during the regulated substances due-diligence process is available through the District's Environmental Studies Unit (DESU).

TOPSOIL FURNISH AND PLACE, 12"

Description. This work shall consist of furnishing, transporting, preparing, and placing topsoil imported from offsite sources. The work shall be completed in accordance with Section 211 of the Standard Specifications except as specified herein, as shown on the plans, and as directed by the Engineer.

Materials. Topsoil shall be provided in accordance with Article 1081.05 of the Standard Specifications with the exception that the minimum organic content shall be 4 percent.

Import topsoil from offsite sources. Obtain topsoil displaced from naturally well-drained construction or mining sites where topsoil occurs at least 6 inches deep; do not obtain from bogs or marshes.

Construction. This work shall be performed in accordance with Articles 211.04 and 211.05 of the Standard Specifications except as modified herein.

Place topsoil and complete finish grading to meet grades as shown on the plans. For new planting bed areas, excavate to a depth of 12 inches and provide topsoil to meet the grades as indicated on the plans and details. Place topsoil to a depth of 12 inches as directed by the engineer. Amend topsoil in all planting bed areas with a 3-inch depth of Soil Conditioner to meet the requirements specified herein.

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Method of Measurement. This work shall be measured in place per SQUARE YARD.

Basis of Payment. This item shall be paid for at the contract unit price per SQUARE YARD for TOPSOIL FURNISH AND PLACE, 12".

SUPPLEMENTAL WATERING

Description. This work will include watering turf, trees, shrubs, and perennial plants at the rates specified and as directed by the Engineer.

Watering will only begin after the successful completion of all period of establishment requirements and will continue through the construction year growing season as directed by the Engineer.

Watering must be completed in a timely manner. When the Engineer directs the Contractor to do supplemental watering, the Contractor must begin the watering operation within 24 hours of notice. Damage to plant material that is a result of the Contractor's failure to water in a timely way must be repaired or replaced at the Contractor's expense.

Materials. The Contractor shall notify the Engineer of the source of water used and provide written certification that the water does not contain chemicals harmful to plant growth.

Construction. The normal rates of application for watering are as follows. The Engineer will adjust these rates as needed depending upon weather conditions.

Perennial Plants:

2 gallons per square foot

Trees:

35 gallons per tree

Shrubs:

25 gallons per large shrub

15 gallons per small shrub

A spray nozzle that does not damage small plants must be used when watering perennial plants or turf. Water shall be applied at the base of the plant to keep as much water as possible off plant leaves. An open hose may be used to water trees, shrubs, and vines if mulch and soil are not displaced by watering. Water shall trickle slowly into soil and completely soak the root zone. The Contractor must supply metering equipment as needed to assure the specified application rate of water.

Method of Measurement. Supplemental watering will be measured in UNITS of 1,000 gallons of water applied as directed.

Basis of Payment. This work will be paid for at the Contract Unit Price per UNIT for SUPPLEMENTAL WATERING, measured as specified.

ADJUSTING WATER MAIN

Description. This work shall be consist of the adjustment and lowering of existing water main at locations noted in the plans, or as directed by the Engineer.

This work shall be done in accordance with Section 561 of the Standard Specifications for Road and Bridge Construction and the Standard Specifications of Water and Sewer Main Construction in Illinois, latest edition.

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Existing water main in conflict with storm sewer shall be adjusted to avoid conflict with proposed storm sewer. The work shall include the removal and disposal of material, installation of all pipes and fittings including any valves required to lower the main, joint materials, tests, disinfection, casing pipes, and excavation.

Method of Measurement. Adjusting water main will be measured in place per foot.

Basis of Payment. This work will be paid for at the Contract Unit Price per FOOT for ADJUSTING WATER MAIN of the size specified in the plans.

WATER VALVES TO BE ADJUSTED

Description. This work shall consist of the adjustment of existing water valves at locations noted in the plans, or as directed by the Engineer.

This work shall be done in accordance with Section 561 of the Standard Specifications for Road and Bridge Construction and the Standard Specifications of Water and Sewer Main Construction in Illinois, latest edition.

Method of Measurement. This work will be measured in place per EACH.

Basis of Payment. This work shall be paid for at the contract unit price per EACH for WATER VALVES TO BE ADJUSTED.

FIRE HYDRANTS TO BE RELOCATED

Description. This work shall consist of the relocation of existing fire hydrants at locations noted in the plans, or as directed by the Engineer.

This work shall be done in accordance with Section 564 of the Standard Specifications for Road and Bridge Construction and Section 46 of the Standard Specifications of Water and Sewer Main Construction in Illinois, except as modified herein and as shown on the details in the plans.

This item includes the removal and relocations of existing fire hydrants as well as thrust blocking, backfill and any necessary fittings required to complete the relocation.

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

Basis of Payment. This work will be paid for at the contract unit price per EACH for FIRE HYDRANTS TO BE RELOCATED.

CONSTRUCTION LAYOUT (ADA)

This work shall consist of furnishing and placing construction layout stakes for the construction of ADA Ramps shown in the plans. The Contractor shall furnish and place stakes marking the locations and elevations of points indicated in the plans for ADA Ramp Construction. The Contractor shall locate all reference points as shown on the plans and listed herein. Any additional control points required will be identified in the field by the Contractor and all field notes will be kept in the office of the Resident Engineer. The Contractor shall provide field forces, equipment, and material to set all additional stakes for this project, which are needed to establish offset stakes, reference points, and any other horizontal and vertical controls necessary to secure a correct layout for the work. Layout stakes shall be set to assure conformance to the

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ADA Ramp design shown on the plans and shall meet the approval of the Engineer. The Contractor shall be responsible for having the finished work conform to the lines, grades, elevations, and dimensions called for in the plans. Any inspection or checking of the Contractor's layout by the Engineer and the acceptance of all or any part of it shall not relieve the Contractor of his/her responsibility to secure the proper dimensions, grades, and elevations of the work. The Contractor shall exercise care in the preservation of stakes and benchmarks and shall have them reset when any are damaged, lost, displaced, removed, or otherwise obliterated.

Responsibility of the Engineer. The Engineer will make random checks of the Contractor's staking to determine if the work is in conformance with the plans. When the Contractor's work will tie into work that is being or will be done by others, checks will be made to determine if the work is in conformance with the proposed overall grade and horizontal alignment. Where the Contractor, in setting construction stakes, discovers discrepancies, the Engineer will check to determine their nature and make whatever revisions are necessary to 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 according to Article 109.04 of the Standard Specifications. The Engineer will be responsible for the accuracy of the initial reference points shown in the plans. It is not the responsibility of the Engineer, except as provided herein, to check the correctness of the Contractor's stakes. Any apparent errors will be immediately called to the Contractor's attention and the Contractor will be required to make the necessary correction before the stakes are used for construction purposes. The Contractor shall provide the Engineer a copy of any field notes and layout diagrams produced during the course of the project.

Responsibility of the Contractor. The Contractor shall establish from the given survey points and contract plan information, all the control points or reference points necessary to layout the ADA Ramp elements. The Contractor shall furnish and place the layout stakes. The Contractor shall notify the Engineer when the stakes are complete and available for review and approval by the Engineer at least 3 working days in advance of the actual construction. Field notes shall be kept in standard survey field notebooks and those books shall become the property of the Engineer at the completion of the project. All notes shall be neat, orderly, and in accepted form.

Measurement and Payment. This work will be paid for at the contract lump sum price for CONSTRUCTION LAYOUT.

PLANTING WOODY PLANTS

Description. This work shall consist of furnishing, transporting, and planting trees and shrubs in accordance with Section 253 of the Standard Specifications except as specified herein, as shown on the plans, and as directed by the Engineer. The work shall include all mulching, bracing, wrapping, watering, weeding, replacement of plants when required, including all materials, labor, and equipment required to complete this work.

Materials. Provide trees, shrubs, and accessories in accordance with Section 253 and Article1081.01 of the Standard Specifications except as modified herein.

Provide quality, size, genus, species, and variety of trees and shrubs as shown on the plans in compliance with the "American Standard for Nursery Stock" latest edition.

All trees to be provided balled and burlapped. All shrubs to be provided either balled and burlapped or container grown.

Mulch shall be six-month old, well-rotted, shredded, native hardwood bark mulch, not larger than 4 inches in

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length and ½ inches in width, free of wood chips and sawdust.

Construction.

Planting Time. Woody plants shall be planted between August 15th and September 30th unless otherwise approved by the Engineer.

Add the following to Construction Requirements:

Delete the third sentence of Article 253.07 and substitute the following:

The Contractor shall be responsible for all plant layout. The layout must be performed by qualified personnel. The planting locations must be laid out as shown in the landscape plan. This will require the use of an engineer's scale to determine some dimensions. Tree locations within each planting area shall be marked with a different color stake/flag and labeled to denote the different tree species. Shrub beds limits must be painted. The Engineer will approve the layout prior to installation.

Delete the first paragraph of Article 253.15 Plant Care and substitute the following:

The Contractor is responsible for plant care until receipt of the "Final Acceptance of Landscape Work" memorandum from the Village. The Contractor shall properly care for all plants including weeding, watering, adjusting of braces, repair of water saucers, or other work which is necessary to maintain the health, vigor, and satisfactory appearance of the plantings. This may require pruning, cultivating, tightening and repairing supports, repair of wrapping, and furnishing and applying sprays as necessary to keep the plants free of insects and disease. The Contractor shall provide plant care a minimum of every two weeks, or within 3 days following notification by the Engineer. All requirements for plant care shall be considered as included in the cost of the contract.

Delete the first paragraph of Article 253.15 Plant Care (a) and substitute the following:

During plant care watering shall be performed at least every two weeks beginning in May until receipt of the "Final Acceptance of Landscape Work" memorandum from the Bureau of Maintenance. The contractor shall apply a minimum of 35 gallons of water per tree, 25 gallons per large shrub, and 15 gallons per small shrub. The Engineer may direct the Contractor to adjust the watering rate and frequency depending upon weather conditions.

Method of Measurement: The contract unit price for trees and shrubs shall include furnishing, transporting, and planting trees and shrubs including bracing, wrapping, watering, mulching, security, weeding, replacement of plants when required and all materials, labor, or equipment required to complete this work.

Basis of Payment. This item shall be paid for at the contract unit price per each for TREES and SHRUBS of the species, root type, and plant size specified, which price shall be payment in full for performing the work as specified herein and as determined by the Engineer.

PLANTING PERENNIAL PLANTS

Description. This work shall consist of furnishing, transporting, and planting perennial plants in accordance with Section 254 of the Standard Specifications except as specified herein, as shown on the plans, and as directed by the Engineer. The work shall include preparing the planting area, planting, watering, weeding, replacement of plants when required, and maintaining perennial areas including all materials, labor, and equipment required to complete this work.

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Materials. Provide perennial plants and accessories in accordance with Article 1081.02 of the Standard Specifications except as modified herein.

Provide container grown perennial plants for ornamental planting areas as indicated on the plans of the quality, size, genus, species, and variety as shown on the plans in compliance with the "American Standard for Nursery Stock" latest edition.

Construction. This work shall be performed in accordance with Section 254 of the Standard Specifications except as modified herein.

Planting Time. Perennial plants shall be planted between August 15th and September 30th unless otherwise approved by the Engineer.

Layout of Planting. The Contractor shall place the marking flags and outline each area for mass or solid planting. The Engineer will verify layout prior to planting.

Planting Procedures. Disposal of sod and debris (rock, stones, concrete, bottles, plastic bags, etc.) shall be removed from the perennial planting bed as specified in Article 202.03.

When planting perennials in bed areas shown on the plans or as directed by the Engineer, the following work shall be performed:

- 1. Topsoil shall be placed in all planting areas as specified.
- 2. Soil Conditioner shall be applied within the planting beds to a depth of 3-inch and then tilled into the soil to a depth of 6-inches to amend the existing topsoil.

Mulching. Within 24 hours, the entire perennial plant bed shall be mulched to a depth of with 2 inches (75 mm) of fine grade mulch. Mulch shall be six-month old, well-rotted, shredded, native hardwood bark mulch, not larger than 4 inches in length and $\frac{1}{2}$ inches in width, free of wood chips and sawdust. A mulch sample shall be submitted to the Engineer for approval 72 hours prior to placing.

Period of Establishment. Period of Establishment for the various types of perennial plants shall be as follows.

Perennial plants must undergo a 30-day period of establishment. Additional watering shall be performed at least twice a week for four weeks following installation. Water shall be applied at the rate of 2 gallons per square foot. Should excess moisture prevail, the Engineer may delete any or all of the additional watering cycles. In severe weather, the Engineer may require additional watering.

A spray nozzle that does not damage small plants must be used when watering perennial plants. Water shall be applied at the base of the plant to keep as much water as possible off plant leaves. Watering of plants in beds shall be applied in such a manner that all plant holes are uniformly saturated without allowing water to flow beyond the periphery of the bed.

During the period of establishment, weeds and grass growth shall be removed from within the mulched perennial beds. This weeding shall be performed once a week during the 30-day period of establishment. The Contractor will not be relieved in any way from the responsibility for unsatisfactory plants due to the extent of weeding.

The weeding may be performed in any manner approved by the Engineer provided the weed and grass growth, including their roots and stems, are removed from the area specified. Mulch disturbed by the

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weeding operation shall be replaced to its original condition. All debris that results from this operation must be removed from the right-of-way and disposed of at the end of each day in accordance with Article 202.03.

At the end of the Period of Establishment, the Contractor will be permitted to replace any unacceptable plants and shall thoroughly weed all the beds.

Plant perennial plants equally spaced throughout ornamental planting areas as shown on the plans.

Method of Measurement. Measurement for payment of this work will not be performed until at the end of the 30-day establishment period for the replacement planting. Only plants that are in place and alive at the time of measurement will be measured for payment. The contract unit price for perennial plants shall include furnishing, transporting, preparing the planting area, planting, watering, mulching, weeding, replacement of plants when required, and maintaining perennial areas until the project completion date, including all materials, labor, and equipment required to complete this work.

Basis of Payment. This work shall be paid for at the contract unit price per unit (one unit equals 100 plants) for PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT and no additional compensation will be allowed. Refer to material list on planting plans for individual perennial plant species.

SEATWALL, GATEWAY COLUMN

Description. This work shall consist of constructing masonry seatwalls and gateway columns in accordance with the Standard Specifications except as specified herein, as shown on the plans, and as directed by the Engineer.

This work shall consist of furnishing, transporting and placing concrete masonry units in accordance with Section 504 and Section 602.06 of the Standard Specifications except as specified herein, as shown on the plans, and as directed by the Engineer. Work shall include all mortar, reinforcement, finishing, and cleanup necessary for placement of concrete masonry units.

This work shall consist of furnishing, transporting, and placing masonry veneer as specified herein, as shown on the plans, and as directed by the Engineer. Work shall include all mortar, finishing, and cleanup necessary for placement of masonry veneer.

This work shall consist of fabricating, furnishing, transporting, and placing cast stone as specified herein, as shown on the plans, and as directed by the Engineer. Work shall include preparation of shop drawings, mortar, anchoring, caulk, and cleanup necessary for fabrication and placement of precast architectural concrete.

This work shall consist of furnishing, transporting, and placing portland cement concrete foundations as specified herein, as shown on the plans, and as directed by the Engineer.

Quality Assurance.

Installation performed only by experienced workers with satisfactory record of performance on completed projects of comparable size and quality.

Stone veneer standards:

Limestone: Comply with ASTM C568, Specifications for dimensions Limestone and following physical characteristics: Wisconsin (Racine Dolomitic) limestone, Grade A. Absorption: ASTM C97, 1.36% maximum. Compressive strength: ASTM C170, 32,000 psi minimum.

Architectural Precast standards:

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Cast Stone Institute Technical Manual (current addition).

Installation: performed only by experienced workers with satisfactory record of performance on completed projects of comparable size and quality.

All stone to be furnished form a single quarry to ensure consistent color range and texture. Samples to be presented to Engineer for approval.

Submittals. Submit product samples representing the size, shape, and color of each unit type along with Manufacturer's product data to the Engineer for approval prior to construction.

Prior to fabrication, prepare and submit shop drawings for each type of cast stone based on field measurements. Submit Manufacturer's product data for each type of material specified before ordering. Submit a sample of the cast stone representing the finish texture and color for review and approval by the Engineer prior to fabrication.

Materials.

Concrete Masonry Units

Concrete masonry units (CMU) shall be in accordance with Article 1042.15 of the Standard Specifications. Provide hollow, non-load bearing, normal weight concrete block units per dimensions as shown on the plans.

Stone Veneer

Description. This work shall be limestone, sound, natural face ledgestone, natural color blend, 3-inch depth as shown on plans. Stone shall be standard grade, free of cracks, seams, or starts, which may impair structural integrity.

The following products/suppliers are preapproved:

Product/Supplier: Brookfield Blend Halquist Stone Company N51 W23563 Lisbon Road Sussex, WI 53089 800-255-8811 www halquiststone com

Product/Supplier: Autumn Sky Fischer Stone 1567 Heine Road Freeport, IL 61032 815-233-3232 www.fischerstone.com

Product/Supplier: Artesian Blend Eden Stone Company W4520 Lime Road Eden, WI 53019 800-472-2521 www.edenstone.net

Brick Veneer

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Supplier: Pine Hall Brick

800-952-7425

www.pinehallbrick.com

Product: Facebrick – Liberty Rose Size: 7-5/8" x 2-1/4" x 3-1/2"

Color: Full Range

Manufacturer /

Supplier: Belden Brick

330-456-0031

https://www.beldenbrick.com/ Product: Claret Full range Velour Size: 7-5/8" x 2-1/4" x 3-5/8"

Color: Full Range

Manufacturer /

Supplier: Endicott Brick

402-729-3315 https://endicott.com/

Product: Burgundy Blend, Red Blend and Medium Ironspot #46

Size: 7-5/8" x 2-1/4" x 3-5/8"

Color: 50% Burgundy Blend, 30% Red Blend and 20% Medium Ironspot #46

Architectural Precast Concrete

Provide architectural precast components as detailed on the plans.

Finish/ color: Dry cast limestone, natural color and texture.

Size: See plans for specific products and dimensions

Accessories

Provide Type S mortar suitable for exterior concrete masonry unit work and submit manufacturer's product data to Engineer for approval prior to construction. Submit mortar manufacturer's product data to Engineer for approval prior to ordering. Engineer to select mortar color from manufacturer's full range of color options.

Provide corrugated-metal veneer anchors, not less than 0.030-inch- thick by 7/8-inch- wide hot-dip galvanized steel sheet with corrugations having a wavelength of 0.3 to 0.5 inch and an amplitude of 0.06 to 0.10 inch of equal as recommended by stone fabricator and approved by the Engineer.

Fabrication.

Architectural Precast Concrete

Fabricator to be a qualified company that assumes responsibility for engineering cast stone units to comply with the required performance requirements.

Fabricate cast stone units straight and true to size and shape as shown on the plans.

Fabricate stone work as indicated or as accepted and detailed on final shop drawings. Provide holes and sinkages cut or drilled for anchors, fasteners, supports, and lifting devices as shown and as necessary to secure stone work in place. Cut and back-check for proper fit and clearance. Shape beds to fit supports.

Cut accurately to shape and dimensions indicated or accepted final shop drawings. Dress joints, bed, and vertical, straight at 90 degree angle to face. Provide drips and washes as indicated. Joint width: Cut to

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allow 1/2" wide joints. Thickness: Provide thickness indicated. Saw-cut back surfaces concealed in the finished work. Jointing: Provide as indicated; when not indicated, in accordance with industry standards and practices.

Provide reinforcement to resist handling, transportation, and erection stresses and cast-in anchorage hardware as required for applications as shown on the plans.

Place concrete in a continuous operation to prevent seams or planes of weakness from forming in cast stone units. Thoroughly consolidate placed concrete by internal and external vibration without dislocating or damaging reinforcement and built-in items, and minimize pour lines, honeycombing, or entrapped air on surfaces.

Cure concrete by moisture retention without heat, or by accelerated heat curing using low-pressure live steam, or radiant heat and moisture. Cure units until compressive strength is high enough to ensure that stripping does not have an effect on performance or appearance of final product.

Construction.

Masonry Veneer

Inspect masonry veneer units before placing and remove any units that do not comply with requirements relating to aesthetic effects, physical properties, or fabrication, or that is otherwise unsuitable for intended use. Arrange units with color and size variations uniformly dispersed for an evenly blended appearance. Perform necessary field cutting and trimming as units are set.

Arrange units in pattern as shown on the plans. Maintain uniform joint widths except for variations due to different stone sizes and where minor variations are required to maintain bond alignment if any. Maintain joints at not less than 3/8 inch at narrowest points or more than 5/8 inch at widest points.

Place weep holes where moisture may accumulate, including at base of cavity walls and above shelf angles. Use wicking material to form weep holes. Turn wicking down at lip of foundation to be as inconspicuous as possible. Space weep holes 24 inches on center.

Variation from Plumb: For vertical lines and surfaces, do not exceed 1/4 inch in 10 feet. Variation from Level: For bed joints, do not exceed 1/4 inch in 20 feet.

Anchor masonry veneer to unit masonry with corrugated metal veneer anchors. Embed anchors in unit masonry mortar joints or grouted cells for distance at least one-half of unit masonry thickness.

Provide 1 inch minimum cavity between masonry and concrete masonry units. Keep cavity free of mortar droppings and debris. Place mortar spots in cavity at veneer anchors to maintain spacing. Slope beds toward cavity to minimize mortar protrusions into cavity.

Rake joints to depth of approximately 3/8 inch deep to uniform depths with square bottoms and clean sides unless otherwise shown on the plans.

Clean masonry veneer as work progresses. Remove mortar fins and smears before tooling joints.

After mortar is thoroughly set and cured, clean masonry veneer by removing large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels. Further clean by bucket and brush hand-cleaning method using job-mixed detergent solution unless otherwise approved by Owner's Representative.

Cast Stone

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Erect cast stone level, plumb, and square within specified allowable tolerances. Provide temporary supports and bracing as required to maintain position, stability, and alignment as units are being permanently connected. Maintain horizontal and vertical joint alignment and uniform joint width as erection progresses. Unless otherwise indicated, provide for uniform joint widths of 3/4 inch.

Connect cast stone units in position by grouting or as otherwise indicated on shop drawings. Remove temporary shims, wedges, and spacers as soon as practical after connecting and grouting are completed.

Grout connections where required or indicated. Retain grout in place until hard enough to support itself. Pack spaces with stiff grout material, tamping until voids are completely filled. Place grout to finish smooth, level, and plumb with adjacent concrete surfaces. Keep grouted joints damp for not less than 24 hours after initial set. Promptly remove grout material from exposed surfaces before it affects finishes or hardens.

Method of Measurement. This work shall be measured in place per FOOT for SEATWALL 19" HEIGHT and per EACH for GATEWAY MONUMENT SIGN COMPLETE.

Basis of Payment. This work will be paid for at the contract unit price per FOOT for SEATWALL 19" HEIGHT and at the contract unit price per EACH for GATEWAY MONUMENT SIGN COMPLETE.

PARK BENCHES

Description. This work shall consist of furnishing, transporting, assembling, and placing benches as specified herein, as shown on the plans, and as directed by the Engineer.

The following products/suppliers are preapproved:

Manufacturer/

Supplier: DuMor, Inc.

800-598-4018 www.dumor.com

Product: 490-60PL with "Cedar" recycled plastic slats and black powder coated steel members.

Manufacturer/

Supplier: Victor Stanley, Inc.

P.O. Drawer 330 Dunkirk, MD 20754 1-800-368-2573

www.victorstanley.com

Product: C-10with "cherry" recycled plastic slats and black powder coated steel frame, 6 ft

Manufacturer/

Supplier: Landscape Forms, Inc. 7800 East Michigan Avenue

Kalamazoo, MI 49048

1-800-430-6209

www.landscapeforms.com

Product: Plainwell bench, 72" wood – thermal modified ash

Construction. Assemble and install benches at locations as shown on the plans. Anchor benches with appropriately sized fasteners as recommended by the manufacturer, and as shown on the plans. Hardware to be black to match bench color.

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Method of Measurement. This work shall be measured in place per EACH.

Basis of Payment. This work shall be paid for at the contract unit price per EACH for PARK BENCHES.

DIRECTIONAL BORING

Description. This item shall consist of furnishing and installing 4" PVC conduit under the TP&W Railroad at locations shown in the plan. The Contractor shall install the conduit by using the directional boring method, installed to the depths as shown on the drawings at a minimum.

Materials. Materials shall be according to article 1088.01(b) and all applicable Sections of the Standard Specifications, TP&W, N.E.C., IDOT, local ordinances, and local electrical utility standards.

Method of Measurement. This work will be measured in place per FOOT.

Basis of Payment. This work shall be paid for at the contract unit price per FOOT for DIRECTIONAL BORING.

CONNECTION TO EXISTING CULVERT

Description. This work shall consist of the connecting of proposed storm sewers to an existing box culvert in accordance with Section 550 and 602 of the Standard Specifications at locations shown in the plans.

The Contractor shall take all necessary precautions to minimize any damage to the existing culvert. Any damage due to Contractor negligence will be repaired and no additional compensation will be allowed. The Contractor shall provide a water tight connection of the storm sewer to the box culvert to the satisfaction of the Engineer.

Method of Measurement. This work will be measured in place per EACH.

Basis of Payment. This work shall be paid for at the contract unit price per EACH for CONNECTION TO EXISTING CULVERT.

SOIL CONDITIONER 3"

Description. This work shall consist of preparation of the planting areas to receive soil amendments, including placement and incorporation of an approved soil conditioner into the landscaping beds.

Materials. The soil conditioner shall consist of ground southern yellow pine bark, composted rice hulls, organic compost, approved nutrient additives and supplements. The Contractor shall submit a 5 pound bag sample to the Engineer for approval prior to the delivery and installation of this material.

Construction. The soil conditioner installation shall only begin after all removals, including vegetation removals, are completed. Clean planting areas of all trash and debris before placement of the approved soil conditioner.

Remove and legally dispose of all removals and debris offsite in accordance with Article 202.03. In existing planting areas, remove existing vegetation and prepare soil surface by gently loosening the top 6 inches of the existing topsoil.

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Apply a 3 inch deep layer of soil conditioner within the planting areas. The Engineer will verify the propoer soil conditioner depth has been applied. After verification of proper depth, the Contractor shall completely incorporate the soil conditioner in the loosed topsoil by tilling.

Rake smooth and finish grade all planted areas. This work shall be considered included in the cost of SOIL CONDITIONER 3". Grading shall be to a tolerance of +/- 0.10 foot of the design grades. Any grade disturbed by any other operations shall be restored to finish grade and raked smooth at no additional cost.

All debris, litter, tire tracks, and unintended materials shall be removed, swept, or washed off of all landscape, adjacent walls and surfaces, curbs, gutters, and pavement on a daily basis, to the approval and directive of the Engineer.

Method of Measurement. This work shall be measured per SQUARE YARD.

Basis of Payment. This work shall be paid for at the contract unit price per SQUARE YARD for SOIL CONDITIONER 3".

TRIAXIAL GEOGRID REINFORCEMENT, TYPE I

Description. This work consists of furnishing and installing an integrally-formed, high-density polypropylene grid reinforcement material with triangular apertures. The grid shall have an aperture, rib and junction cross section sufficient to permit significant mechanical interlock with the material being reinforced. There shall be a high continuity of tensile strength through all ribs and junctions of the grid material to reinforce the embankment or subgrade as shown on the plans and Table 1 below.

Materials.

Table 1 Geogrid Requirements

Property	Test Method	Туре I
Aperture Shape	Visual	Triangular
Aperture Size (in) (a)	ID Calipered	1.6
Rib Thickness (mil) (b)	ASTM D1777	50
Rib Shape	Visual	Rectangular
Min Radial Stiffness @ 0.5% strain (lb/ft) (c)	ASTM D6637	15,430
Junction Strength (efficiency) (%) (d)	GRI-GG2-87	93 min
Ultraviolet Stability (%)	ASTM D4355	100

- (a) Nominal dimension, measured perpendicular, from center of the base of triangle.
- (b) Nominal dimension, measured at mid-rib.
- (c) Radial stiffness is determined from the tensile stiffness measured in any inplane axis from testing in accordance with ASTM D6637.
- (d) Load transfer capability determined in accordance with GRI-GG1-87 and GRI-GG2-87 and expressed as a percentage of ultimate rib tensile strength.

The supplier shall provide a certification that this product meets the above requirements.

Installation.

The geotechnical reinforcement shall be placed as described herein or as shown on the plan cross

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sections.

Geogrid shall be delivered to the jobsite in such a manner as to facilitate handling and incorporation in to the work without damage. Material shall be stored in such a manner as to prevent exposure to direct sunlight and damage by other construction activities.

Prior to the installation of the geogrid, the application surface shall be cleared of debris and sharp objects All wheel tracks or ruts in excess of 75 mm (3 inches) in depth shall be graded smooth or otherwise filled with soil to provide a reasonably smooth surface.

The geotechnical reinforcement shall be placed with the "roll length" parallel to the roadway. Fabric of insufficient width or length to fully cover the specified shall be lapped a minimum of 600 mm (24 inches).

The granular blanket shall be constructed to the width and depth required on the plans. Unless otherwise specified, the material shall be back dumped on the geogrid in a sequence of operations beginning at the outer edges of the treatment area with subsequent placement towards the middle.

Placement of material on the geogrid shall be accomplished by spreading dumped material off of previously placed material with a bulldozer blade or endloader, in such a manner as to prevent tearing or shoving of the geogrid. Dumping of material directly on the geogrid will only be permitted to establish an initial working platform. No construction equipment shall be allowed on the geogrid prior to placement of the granular blanket.

Unless otherwise specified in the plans or project special provisions, the granular material shall be placed to the full required thickness and compacted to the satisfaction of the Engineer.

Geogrid which is damaged during installation or subsequent placement of granular material, due to failure of the Contractor to comply with these provisions, shall be repaired or replaced at his/her expense, including costs of removal and replacement of the granular material.

Geogrid that is torn may be patched in-place by cutting and placing a piece of the same geogrid over the tear. The dimensions of the patch shall be at lease 600 mm (24 inches) larger than the largest dimension of the tear in each direction, and it shall be weighted or otherwise secured to prevent the granular material from causing lap separation.

Method of Measurement. Triaxial Geogrid Reinforcement Type I will be measured in place per SQUARE YARD.

Basis of Payment. This work will be paid for at the contact unit price per SQUARE YARD for TRIAXIAL GEOGRID REINFORCEMENT, TYPE I.

TRASH AND RECYCLING RECEPTACLES

Description. This work shall consist of furnishing, transporting, assembling, and placing trash and recycling receptacles as specified herein, as shown on the plans, and as directed by the Engineer.

Materials.

The following products/suppliers are preapproved:

Trash Receptacle Manufacturer/

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Supplier: DuMor, Inc. 800-598-4018 www.dumor.com Product: 287-32SH-SO

Finish/Color: Polyester powdercoat, black.

Manufacturer/

Supplier: Victor Stanley, Inc.

P.O. Drawer 330 Dunkirk, MD 20754 1-800-368-2573

www.victorstanley.com

Product: SDC-36 Trash receptacle, Solid convex lid

Finish/Color: Steel with TGIC polyester powder coating; black

Manufacturer/

Supplier: Landscape Forms, Inc. 7800 East Michigan Avenue Kalamazoo, MI 49048 1-800-430-6209

ununu landaaan afarm

www.landscapeforms.com

Product: Chase Park trash receptacle, side opening

Finish/Color: Steel with Pangard II polyester powder coating, black

Recycling Receptacle

Manufacturer/

Supplier: DuMor, Inc. 800-598-4018 www.dumor.com

Product: 287-32SH-RC0001

Finish/Color: Polyester powdercoat, black.

Manufacturer/

Supplier: Victor Stanley, Inc.

P.O. Drawer 330 Dunkirk, MD 20754 1-800-368-2573

www.victorstanley.com

Product: SDC-36 Mixed recycling receptacle

Finish/Color: Steel with TGIC polyester powder coating; black

Manufacturer/

Supplier: Landscape Forms, Inc. 7800 East Michigan Avenue Kalamazoo, MI 49048

1-800-430-6209

www.landscapeforms.com

Product: Chase Park mixed recycling receptacle, side opening Finish/Color: Steel with Pangard II polyester powder coating, black

Construction. Assemble and install trash and recycling receptacles at locations as shown on the plans.

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Anchor benches with appropriately sized fasteners as recommended by the manufacturer, and as shown on the plans. Hardware to match trash [recycling] receptacle color.

Method of Measurement. This work shall be measured in place per EACH.

Basis of Payment. This work shall be paid for at the contract unit price per EACH for TRASH RECEPTACLE and RECYCLING RECEPTACLE.

PAVEMENT REMOVAL (SPECIAL)

Description. All work performed under this pay item shall be performed in accordance with Section 440 of the Standard Specifications for Road and Bridge Construction unless modified within these documents.

This work shall consist of the removal and proper disposal of the existing brick paver pavement at locations provided in the plans.

A full-depth saw cut will be required between the existing pavement to remain in place and the portion to be removed.

The contact unit price shall include removing and disposing of the entire brick pavement structure including the surface, base and any stabilized subbase.

In addition to the requirements of Section 202 and Article 107.01 of the Standard Specifications, the Contractor shall be solely responsible for the complete removal of excavated material as well as full legal and proper disposal off-site. Based upon the land use of the subject and adjoining properties, spoils from the project may not be able to disposed of at a Clean Construction and Demolition Debris (CCDD) landfill, and may need to be managed and disposed of off-site as a nonspecial waste. Disposal waste characterization analyses have not been performed by the City. It is the Contractor's responsibility to procure the services of a Licensed Professional Engineer for the purposed of presenting soil characterization profiles to the landfill selected by the Contractor in order to obtain approval for disposal at said site. No adjustment to unit prices shall be allowed if the landfill selected by the Contractor will not accept the material and the use of a different landfill is required.

CCDD Operations. If the Contractor chooses to dispose of the material at a clean construction and demolition debris (CCDD) facility, it shall be the Contractor's responsibility to procure the services of a Licensed Professional Engineer for the purpose of presenting certification on all required forms prescribed by the IEPA whenever excavated soil and clean construction and demolition debris is disposed of from the public right-of-way. The Licensed Professional Engineer, or signee of the Uncontaminated Soil Certification Form LPC - 662 or 663, shall have reasonable evidence or basis upon which they are clarifying that soil from the project site is uncontaminated. The Licensed Professional Engineer shall obtain evidence including analytical testing for volatile organic compounds (VOC), as a minimum, prior to signing off on the uncontaminated designation of the waste.

Method of Measurement. Pavement Removal (Special) will be measured in place per SQUARE YARD.

Basis of Payment. This work shall be paid for at the contract unit price per SQUARE YARD for PAVEMENT REMOVAL (SPECIAL).

SANITARY MANHOLES TO BE ADJUSTED

Description. All work performed under this pay item shall be performed in accordance with Section 602 of

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the Standard Specifications for Road and Bridge Construction, unless modified within these documents.

This pay item shall include the adjustment of existing sanitary sewer manholes which shall include resetting the frame and grate or lid, removing any existing chimney seal and installing a new external chimney seal, and excavation and backfilling.

Method of Measurement. Sanitary Manholes to be Adjusted will be measured in place per EACH.

Basis of Payment. This work shall be paid for at the contract unit price per EACH for SANITARY MANHOLES TO BE ADJUSTED.

REMOVE AND RE-ERECT EXISTING SIGN

Description. All work performed under this pay item shall be performed in accordance with Section 724 of the Standard Specifications for Road and Bridge Construction, unless modified within these documents.

This work shall consist of the removal and re-erection of the existing signs as shown in the plans including all necessary hardware.

The Contractor shall take all necessary precautions to ensure the signs will not be damaged during construction operations and shall be stored in a manner to protect against damages. Any damage to the sign due to the Contractor's negligence will be repaired by the Contractor at no additional cost to the Owner.

Method of Measurement. Remove and Re-Erect Existing Sign will measured in place per EACH.

Basis of Payment. This work shall be paid for at the contract unit price per EACH for REMOVE AND RE-ERECT EXISTING SIGN.

UNIT PAVERS

Description. This work shall consist of constructing unit paving on a rigid subgrade, in accordance with these special provisions, as shown on the plans, and as directed by the Engineer. Work shall include all subgrade preparation, base material, formwork, reinforcement, finishing, and cleanup necessary for construction of unit paving.

The Contractor shall provide all equipment and materials and do all work necessary to construct the unit paving as indicated on the Drawings and as specified. Drawings and general provisions of Contract, and all other sections of these Special Provisions, apply to this Section. Except as modified herein, the work shall be in accordance with the applicable portions of the Standard Specifications.

The Contractor shall provide evidence that his firm or other entity propose for the unit paving work has specific experience meeting the following criteria:

- 1. Experience installing unit pavers using sand setting beds.
- 2. Installed (within past three years) a minimum of 100,000 square feet per year for the past three years of unit paving using sand setting beds.
- 3. The same experienced supervisory personnel will be made available for this project.

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The Contractor shall also submit a list of comparable projects setting forth description, square footage, location and knowledgeable references with addresses and phone numbers.

The Contractor shall submit to the Engineer a minimum of 16 square feet of each type of unit paver for approval. The Submittal shall indicate the full range of unit pavers in the specified colors.

The Contractor shall submit manufacturer's technical specifications and data for concrete paver units indicating conformance with specified requirements.

Materials.

The following products/suppliers are preapproved:

Unit Paving - Pedestrian

Manufacturer /

Supplier: Pine Hall Brick

800-952-7425

www.pinehallbrick.com

Product: Rumbled Series Full Range

Size: 4"x8"x2.25" Color: Full Range

Manufacturer /

Supplier: Belden Brick

330-456-0031

https://www.beldenbrick.com/ Product: Regimental Full Range

Size: 4"x8"x2.25" Color: Full Range

Manufacturer /

Supplier: Endicott Brick

402-729-3315

https://endicott.com/

Product: Burgundy Blend, Red Blend and Medium Ironspot #46

Size: 4"x8"x2.25"

Color: 50% Burgundy Blend, 30% Red Blend and 20% Medium Ironspot #46

Unit Paving – Crosswalk

Manufacturer/

Supplier: Pine Hall Brick

800-952-7425

www.pinehallbrick.com

Product: Rumbled Series Full Range

Size: 4"x8"x2.75" Color: Full Range

Manufacturer /

Supplier: Belden Brick

330-456-0031

https://www.beldenbrick.com/ Product: Regimental Full Range
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Size: 4"x8"x2.75" Color: Full Range

Manufacturer /

Supplier: Endicott Brick

402-729-3315 https://endicott.com/

Product: Burgundy Blend, Red Blend and Medium Ironspot #46

Size: 4"x8"x2.625"

Color: 50% Burgundy Blend, 30% Red Blend and 20% Medium Ironspot #46

Samples of pavers to be used shall be provided for approval prior to ordering.

There shall be no variation in the depth of each paver and pavers shall have a chamfered edge on all topside edges.

Graded Aggregate for Base

The base course granular material shall meet the requirements of Section 1004 of the Standard Specifications of CA 6 and shall be constructed to a compacted thickness as described in the plans. Crushed Concrete shall not be used.

Portland Cement Concrete Base Course

As described in Concrete Paving Section of these special provisions.

Drainage Geotextile

Nonwoven needle-punched geotextile made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288.

Sand Setting Bed

Sand for setting bed shall meet the requirements of Section 1003 of the Standard Specifications for FA-6. Masons sand shall not be used.

Paver Joint Material

The paver joint material shall be dry sand conforming to ASTM C-144 with all particles passing the No. 16 sieve.

No paver setting work shall be performed when the underlayment has free moisture, ice, or snow, or when the underlayment is frozen.

The concrete underlayment shall be sound, clean, and free from debris and materials or substances which will hinder the bond of the setting bed. The top surface of concrete underlayment slab shall not vary more than one half (1/2) inch of its proposed elevation. Concrete shall have cured at least three (3) days.

Construction.

General: Mix pavers from several pallets or cubes, as they are placed, to produce uniform blend of colors and textures. Cut unit pavers with motor-driven masonry saw equipment to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible.

The Contractor shall make every effort to reduce dust during paver installation and cutting operations. If pavers are wet cut, the Contractor shall clean daily adjacent horizontal and vertical surfaces of all slurry, debris and over spray created by wet cutting operations. If pavers are dry cut, an effective dust collection

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vacuum system must be employed to collect dust at the saw. The Contractor shall maintain such system to optimize its performance by changing or emptying filter bags, or other required activities.

Cut pavers shall be placed in areas shown on the details in the plans. "L" shaped pavers shall be avoided where possible. Pavers shall be cut radially when joints between pavers on curves exceed 1/8 inch. Radial cut pavers shall be created by trimming both sides of paver.

Joint Pattern: As indicated in plans.

Tolerances: Do not exceed 1/16-inch unit-to-unit offset from flush (lippage) nor 1/8 inch in 24 inches and 1/4 inch in 10 feet from level, or indicated slope, for finished surface of paving.

Rigid setting-bed applications: Compact soil subgrade uniformly to at least 95 percent of ASTM D 698 laboratory density. Place aggregate base, and concrete underlayment as described in the Concrete Paving Section of these Special Provisions. Place leveling course and screed to a thickness of ¾ to 1 inch, taking care that moisture content remains constant and density is loose and constant until pavers are set and compacted. Set pavers with a minimum joint width of 1/16 inch and a maximum of 1/8 inch, being careful not to disturb leveling base. If pavers have spacer bars, place pavers hand tight against spacer bars. Vibrate pavers into leveling course with a low-amplitude plate vibrator capable of a 3500- to 5000-lbf compaction force at 80 to 90 Hz. Spread dry sand and fill joints immediately after vibrating pavers into leveling course. Vibrate pavers and add sand until joints are completely filled, then remove excess sand. Leave a slight surplus of sand on the surface for joint filling.

Surface tolerance shall be within 1/4 in. of the required grade as measured with a 10 ft. straightedge in both the transverse and longitudinal directions.

Setting bed shall be protected from damage prior to setting pavers. Unit pavers shall be set on sand setting bed. Setting shall be done by competent workmen under adequate supervision, and in accordance with manufacturer's recommendations. Pavers with chips, cracks, or other structural or aesthetic defects or those rejected by the engineer shall not be used. Pavers shall be set true to the required lines and grades in the pattern detailed on the Plans. Pavers shall be tightly butted. Joints between pavers shall be uniform and shall be 1/8 inch in width. There shall be positive surface drainage with no bird baths or raised edges (either pavers or materials adjacent to pavers) that could allow someone to trip. The tolerance for such edges shall be 0" - 1/8" maximum in range.

After a sufficient area of pavers has been installed, the pavers shall be compacted by running a mechanical vibratory compactor over the paved surface until the pavers are uniformly leveled, true to grade, and totally immobilized.

Where required, pavers shall be accurately cut with a masonry or concrete saw. Cut edges shall be plumb and straight. Scoring and breaking shall not be acceptable.

Joints between pavers shall be filled by sweeping sharp sand into the joints. When joints are filled, paver surfaces shall be swept clean of sand.

Paver edgings shall be installed per manufacturer's recommendations.

After completion of the unit pavers, paver installation areas shall be thoroughly swept clean and surface shall be left unsoiled. Where required by the engineer, surface shall be cleaned with water or an approved cleaner.

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Special attention is called to the details and landscaping plans which specify which type of paver brick is required at pedestrian areas and at crosswalks.

Method of Measurement. This work shall be measured in place per SQUARE FOOT.

Basis of Payment. This work shall be paid for at the contract unit price per SQUARE FOOT for UNIT PAVERS.

CONCRETE MAINTENANCE BAND, PORTLAND CEMENT CONCRETE PAVER BAND FOR PAVER BRICKS, PLANTER CURB

Description. This work shall consist of subgrade preparation, placement of base material, formwork, reinforcement, finishing, and cleanup necessary for construction of concrete maintenance band, concrete paver band, and planter curb in accordance with Section 424 of the Standard Specifications, as described herein, and as depicted on the plan and detail sheets.

Materials.

Concrete

Concrete shall be in accordance with Section 420 of the Standard Specifications, having a minimum 14-day strength of 3500 psi.

Joint Sealant

Joint sealants shall be a one-part non-priming, non-tacking, polyurethane joint sealant with leveling properties suitable to the use intended. The color shall be selected by the Engineer.

Joint Filler Material

Joint filler material shall be a non-extruding asphalt-impregnated fiber board of a width as specified on the Drawings and in accordance with Section 1051 of the Standard Specifications. Joint filler shall extend from the bottom of the slab to within 1 inch of the top of the joint.

Dowel Rod

Dowel rods used for doweled expansion joints shall be smooth steel rod of the size specified on the Drawings. One end of the rod shall be sleeved to permit free movement within one side of the slab or other concrete component.

Base Course Granular Material

Material shall be crushed stone having a CA-6 gradation conforming to Section 1004 of the Standard Specifications.

Reinforcement

Reinforcing bars shall conform to ASTM A615, Grade 60. The welded wire mesh shall be welded plain cold-drawn steel wire fabric conforming to ASTM A185. The steel wire shall conform to ASTM A82 and be of the size indicated on the plans.

The existing subgrade shall be thoroughly compacted prior to installation of the sub-base granular material. Sub-base granular material shall be installed in accordance with these specifications and to the compacted depth indicated on the drawings.

Protective coat shall be applied as specified herein to all poured concrete except underlayment.

Construction.

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Forms shall be oiled prior to placing concrete. All pavements and underlayments shall have a minimum cross slope of 1/4 inch per foot or as indicated on the plans. Concrete shall be placed in one course construction of the specified thickness.

The surface of all exposed Concrete shall have a light broom finish. Exposed formed surfaces to have hand rubbed surface.

Expansion and Isolation Joints

Premolded joint filler shall be installed with attached joint caps where indicated on the plans and not be more than 30 feet apart and where new concrete work abut vertical surfaces, walks, and other existing concrete construction. Joint fillers and joint caps shall be extended to the full width and depth of the joint. Joint fillers shall be furnished in one-piece lengths for the full width of slab to be placed, wherever possible. The top edge of the joint cap shall be formed to conform to the top profile of concrete.

The concrete shall be tooled with a slight radius on each side of joint cap. After the concrete has cured sufficiently, remove top half of joint cap.

The sealant shall be installed as indicated on the plans per manufacturer's recommendations and specifications to fill space created by joint cap to top of concrete.

The surface shall be divided using control joints of the depth and configuration indicated on the drawings. The surface shall be divided by control joints extending to 1/3 the depth of the slab. Control joints shall be tooled first, then sawcut to proper depth and shall be spaced at intervals indicated on the drawings. All edges of header banding shall be shaped with an edging tool having a radius as indicated on the drawings.

Concrete pours shall be ended at expansion or control joints. Partial slabs shall not be allowed.

Protective Coat

Protective coat shall be applied to all concrete surfaces. This work shall be performed in accordance with Article 420.18 of the Standard Specifications, except that the coating shall be applied regardless of when the item being coated was constructed.

All concrete shall be cured for not less than seven (7) days after placement. All surfaces shall be protected from sun with membrane curbing compounds. During hot weather, the temperature of the concrete shall be kept below 90 degrees F. During cold weather, the temperature of the concrete shall be kept between 50 degrees F and 70 degrees F for 3 to 5 days. The concrete shall be protected from frost and rapid drying for 6 days. Warning barricades shall be properly erected to prevent premature loading or tracking of fresh concrete.

Method of Measurement. This work shall be measured in place per FOOT for CONCRETE MAINTENANCE BAND, per FOOT for PORTLAND CEMENT CONCRETE PAVER BAND FOR PAVER BRICKS, and per FOOT for PLANTER CURB.

Basis of Payment. This work shall be paid for at the contract unit price per FOOT for CONCRETE MAINTENANCE BAND, per FOOT for PORTLAND CEMENT CONCRETE PAVER BAND FOR PAVER BRICKS, and per FOOT for PLANTER CURB.

DECORATIVE ROADWAY LIGHTING ASSEMBLY

Description. This work shall consist of the installation of new roadway lighting poles and luminares at locations shown in the plans in accordance with Section 821 of the Standard Specifications. Special

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attention is called to the lighting details shown in the plans.

The Contractor shall submit shop drawings for review prior to ordering any materials.

Method of Measurement. This work will be measured in place per EACH.

Basis of Payment. This work shall be paid for at the contract unit price per EACH for DECORATIVE ROADWAY LIGHTING ASSEMBLY.

HISTORICAL INTERPRETIVE SIGN COMPLETE

Description. This work shall consist of furnishing, fabricating, transporting, and erecting Historical Interpretive Signage as specified herein, as shown on the plans, and as directed by the Engineer.

Materials. Materials provided for signage shall be in accordance with Section 720, 1091, and 1092 of the Standard Specifications except as indicated herein.

Custom High Pressure Laminate Sign: Solid phenolic panel core with graphic image covered with thermosetting resin face layer; ½" thick panel.

Mounting Hardware: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations per manufacturers' recommendations. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors.

The following products/suppliers are preapproved:

Manufacturer/

Supplier: FOSSIL INDUSTRIES INC.

631.254.9200

https://fossilgraphics.com/

Product: NPS Style Single Pedestal Surface Mount

Size: 24" by 36"

Color: Standard black powder coated aluminum

Manufacturer/

Supplier: IZONE imaging

888.464.9663

https://izoneimaging.com/

Product: NPS Style Cantilever Framed Pedestal

Size: 24" by 36"

Color: Standard black powder coated aluminum

Manufacturer/

Supplier: Pulse Design

708.385.1308

http://www.pulsedesign.com/

Product: Cantilever Pedestal with Frame, in ground mount

Size: 24" by 36"

Color: Standard black powder coated aluminum

Prior to fabrication submit complete shop drawings and samples for all signage components to Engineer.

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Shop drawings shall show all sign elevations, including text, details of sections and connections. Show anchorage and accessory items. Provide a sample of typical sign and finish color for approval by the Engineer. All samples, product data, and shop drawings shall be submitted for approval prior to commencement of construction operations.

Locate signs and accessories where indicated, using mounting methods of types described and complying with manufacturer's written instructions. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.

Construction. Layout all sign locations and review with the Engineer prior to installation. Set posts as indicated on plans and erect signs. Upon completion of the work, remove from site all excess materials, debris, tools, and equipment. Repair damage resulting from operations.

Special attention is called to the details and landscaping plans which specify the type of concrete maintenance band to be used with pedestrian paver bricks and concrete maintenance band to be used with crosswalk paver bricks.

Method of Measurement. This work shall be measured in place per EACH.

Basis of Payment. This work shall be paid for at the contract unit price per EACH for HISTORICAL INTERPRETIVE SIGN COMPLETE.

The accessories and methods of attachment, including excavation and placing concrete for setting posts, will not be measured for payment and shall be included in the contract unit cost for HISTORICAL INTERPRETIVE SIGN COMPLETE, and no additional compensation will be allowed.

TYPE 11 FRAME AND GRATE

Description. All work performed under this pay item shall be in accordance with the applicable portions of Section 602 of the Standard Specifications.

This work involves the placing and adjustment of proposed Type 11 Frame and Grates above the existing culvert at locations noted in the plans. Castings shall be placed above the existing holes in the top of the culvert and adjusted to proposed grade with adjustment rings.

Method of Measurement. This work will be measured in place per EACH.

Basis of Payment. This work will be paid for at the contract unit price per EACH for TYPE 11 FRAME AND GRATE.

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

SPECIAL PROVISION FOR GROWTH CURVE

Effective: March 1, 2008 Revised: December 13, 2021

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 1030.09(c). Any required corrective action for testing using nuclear density testing shall be according to Article 1030.09(f). The QA Manager is responsible for assuring and documenting that the determined number of rollerpasses 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.

State of Illinois DEPARTMENT OF TRANSPORTATION Bureau of Local Roads & Streets SPECIAL PROVISION FOR

LOCAL QUALITY ASSURANCE/ QUALITY MANAGEMENT QC/QA Effective: January 1, 2022

Replace the first five paragraphs of Article 1030.06 of the Standard Specifications with the following:

"1030.06 Quality Management Program. The Quality Management Program (QMP) will be Quality Control / Quality Assurance (QC/QA) according to the following."

Delete Article 1030.06(d)(1) of the Standard Specifications.

Revise Article 1030.09(g)(3) of the Standard Specifications to read:

"(3) If core testing is the density verification method, the Contractor shall provide personnel and equipment to collect density verification cores for the Engineer. Core locations will be determined by the Engineer following the document "Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations" at density verification intervals defined in Article 1030.09(b). After the Engineer identifies a density verification location and prior to opening to traffic, the Contractor shall cut a 4 in. (100 mm) diameter core. With the approval of the Engineer, the cores may be cut at a later time."

Revise Article 1030.09(h)(2) of the Standard Specifications to read:

"(2) After final rolling and prior to paving subsequent lifts, the Engineer will identify the random density verification test locations. Cores or nuclear density gauge testing will be used for density verification. The method used for density verification will be as selected below

	Density Verification Method
	Cores
X	Nuclear Density Gauge (Correlated when
	paving ≥ 3,000 tons per mixture)

Density verification test locations will be determined according to the document "Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations". The density testing interval for paving wider than or equal to 3 ft (1 m) will be 0.5 miles (800 m) for lift thicknesses of 3 in. (75 mm) or less and 0.2 miles (320 m) for lift thicknesses greater than 3 in. (75 mm). The density testing interval for paving less than 3 ft (1 m) wide will be 1 mile (1,600 m). If a day's paving will be less than the prescribed density testing interval, the length of the day's paving will be the interval for that day. The density testing interval for mixtures used for patching will be 50 patches with a minimum of one test per mixture per project.

If core testing is the density verification method, the Engineer will witness the Contractor coring, and secure and take possession of all density samples at the

density verification locations. The Engineer will test the cores collected by the Contractor for density according to Illinois Modified AASHTO T 166 or AASHTO T 275.

If nuclear density gauge testing is the density verification method, the Engineer will conduct nuclear density gauge tests. The Engineer will follow the density testing procedure detailed in the document "Illinois Modified ASTM D 2950, Standard Test Method for Density of Bituminous Concrete In-Place by Nuclear Method".

A density verification test will be the result of a single core or the average of the nuclear density tests at one location. The results of each density test must be within acceptable limits. The Engineer will promptly notify the Contractor of observed deficiencies."

Revise the seventh paragraph and all subsequent paragraphs in Section D. of the document "Hot-Mix Asphalt QC/QA Initial Daily Plant and Random Samples" to read:

"Mixtures shall be sampled from the truck at the plant by the Contractor following the same procedure used to collect QC mixture samples (Section A). This process will be witnessed by the Engineer who will take custody of the verification sample. Each sample bag with a verification mixture sample will be secured by the Engineer using a locking ID tag. Sample boxes containing the verification mixture sample will be sealed/taped by the Engineer using a security ID label."

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.

general liability insurance policy in accordance with Article 107.27:	sured under the Contractor's
The entities listed above and their officers, employees, and age held harmless in accordance with Article 107.26.	nts shall be indemnified and

BLENDED FINELY DIVIDED MINERALS (BDE)

Effective: April 1, 2021

Revise the second paragraph of Article 1010.01 of the Standard Specifications to read:

"Different sources or types of finely divided minerals shall not be mixed or used alternately in the same item of construction, except as a blended finely divided mineral product according to Article 1010.06."

Add the following article to Section 1010 of the Standard Specifications:

"1010.06 Blended Finely Divided Minerals. Blended finely divided minerals shall be the product resulting from the blending or intergrinding of two or three finely divided minerals. Blended finely divided minerals shall be according to ASTM C 1697, except as follows.

- (a) Blending shall be accomplished by mechanically or pneumatically intermixing the constituent finely divided minerals into a uniform mixture that is then discharged into a silo for storage or tanker for transportation.
- (b) The blended finely divided mineral product will be classified according to its predominant constituent or the manufacturer's designation and shall meet the chemical requirements of its classification. The other finely divided mineral constituent(s) will not be required to conform to their individual standards."

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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."

80384

CORRUGATED PLASTIC PIPE (CULVERT AND STORM SEWER) (BDE)

Effective: January 1, 2021

Revise Tables IIIA and IIIB of Article 542.03 and the storm sewers tables of Article 550.03 of the Standard Specifications to read:

(SEE TABLES ON NEXT 10 PAGES)

"PIPE CULVERTS TABLE IIIA: PLASTIC PIPE PERMITTED FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE

		•	Type 1				-	Type 2	2		Type 3					Type 4					
Nominal	F	ill Heigl									Fill	Height:			10',	Fill	Height:			15',	
Diameter		Wi	<u>th 1' m</u>	nin			not ex	ceedi	ng 10'		not exceeding 15'					not exceeding 20'					
(in.)	PVC	CPVC	PE	CPE	CPP	PVC	CPVC	PE	CPE	CPP	PVC	CPVC	PE	CPE	CPP	PVC	CPVC	PE	CPE	CPP	
10	Х	QPL	Х	QPL	NA	Х	QPL	Χ	QPL	NA	Χ	QPL	Χ	QPL	NA	Χ	QPL	Х	QPL	NA	
12	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	
15	Χ	QPL	NA	QPL	QPL	Χ	QPL	NA	QPL	QPL	Х	QPL	NA	QPL	QPL	Χ	QPL	NA	QPL	QPL	
18	Χ	QPL	Х	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Х	QPL	QPL	
21	Χ	QPL	NA	QPL	NA	Χ	QPL	NA	QPL	NA	Χ	QPL	NA	QPL	NA	Χ	QPL	NA	NA	NA	
24	Χ	QPL	Х	QPL	QPL	Х	QPL	Х	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Х	NA	QPL	
27	Х	NA	NA	NA	NA	Χ	NA	NA	NA	NA	Х	NA	NA	NA	NA	Χ	NA	NA	NA	NA	
30	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	NA	QPL	
36	Х	QPL	Х	QPL	QPL	Х	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Χ	QPL	Х	NA	QPL	
42	Х	NA	Х	QPL	QPL	Χ	NA	Х	QPL	QPL	Х	NA	Χ	NA	QPL	Χ	NA	Х	NA	NA	
48	Χ	NA	Χ	QPL	QPL	Χ	NA	Х	QPL	QPL	Χ	NA	Χ	NA	QPL	Χ	NA	Х	NA	NA	
54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
60	NA	NA	NA	QPL	QPL	NA	NA	NA	QPL	QPL	NA	NA	NA	NA	QPL	NA	NA	NA	NA	NA	

Notes: PVC

PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

PΕ Polyethylene Pipe

Corrugated Polyethylene Pipe with a Smooth Interior Corrugated Polypropylene Pipe with a Smooth Interior CPE CPP

Χ Permitted

Permitted for the producers approved for that diameter in the Department's qualified product list QPL

Not Acceptable NA

PIPE CULVERTS (metric) TABLE IIIA: PLASTIC PIPE PERMITTED FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE

	Type 1 Type 2							Type 3					Type 4							
Nominal Diameter		II Height with 0.3			,	Fill Height: Greater than 1 m, not exceeding 3 m					Fill Height: Greater than 3 m, not exceeding 4.5 m					Fill Height: Greater than 4.5 m, not exceeding 6 m				
(mm)		CPVC	PE	CPE	CPP	PVC	CPVC	PE	CPE	CPP	PVC	CPVC	PE	CPE	CPP	PVC	CPVC	PE	CPE	CPP
250	Χ	QPL	Х	QPL	NA	Х	QPL	Χ	QPL	NA	Х	QPL	Х	QPL	NA	Χ	QPL	Χ	QPL	NA
300	Χ	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL
375	Χ	QPL	NA	QPL	QPL	Х	QPL	NA	QPL	QPL	Х	QPL	NA	QPL	QPL	Χ	QPL	NA	QPL	QPL
450	Χ	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL
525	Χ	QPL	NA	QPL	NA	Χ	QPL	NA	QPL	NA	Χ	QPL	NA	QPL	NA	Χ	QPL	NA	NA	NA
600	Χ	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Х	QPL	Χ	NA	QPL
675	Χ	NA	NA	NA	NA	Х	NA	NA	NA	NA	Х	NA	NA	NA	NA	Х	NA	NA	NA	NA
750	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	QPL	QPL	Χ	QPL	Χ	NA	QPL
900	Χ	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Х	QPL	Χ	QPL	QPL	Х	QPL	Х	NA	QPL
1050	Χ	NA	Χ	QPL	QPL	Х	NA	Χ	QPL	QPL	Х	NA	Χ	NA	QPL	Х	NA	Х	NA	NA
1200	Χ	NA	Χ	QPL	QPL	Χ	NA	Χ	QPL	QPL	Χ	NA	Χ	NA	QPL	Χ	NA	Χ	NA	NA
1350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1500	NA	NA	NA	QPL	QPL	NA	NA	NA	QPL	QPL	NA	NA	NA	NA	QPL	NA	NA	NA	NA	NA

Notes: PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior
PE Polyvethylene Pipe

Corrugated Polyethylene Pipe with a Smooth Interior Corrugated Polypropylene Pipe with a Smooth Interior CPE CPP

Permitted Χ

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

PIPE CULVERTS TABLE IIIB: PLASTIC PIPE PERMITTED FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE Type 7 Type 5 Type 6 Fill Height: Greater than 20', Fill Height: Greater than 30', Fill Height: Greater than 25', Nominal not exceeding 25' not exceeding 30' not exceeding 35' Diameter (in.) CPVC PΕ CPE CPP PVC CPVC PVC CPVC **PVC** PΕ PΕ 10 Χ QPL Χ QPL NA Χ QPL Χ Χ QPL Χ 12 QPL Χ QPL QPL Χ QPL Χ Χ QPL Χ Χ 15 Х NA QPL Χ QPL NA Х NA QPL NA QPL 18 Χ QPL Χ NA NA Χ QPL Χ Χ QPL Χ Χ Х QPL Χ 21 QPL NA NA NA NA QPL NA 24 Χ QPL Χ NA NA Χ QPL Χ Χ QPL Χ Χ Χ 27 Χ NA NA NA NA NA NA NA NA 30 Χ QPL QPL Χ QPL Χ Χ QPL Χ Χ NA 36 QPL Χ Χ QPL Х Χ QPL Х Χ NA NA 42 Х NA Χ NA NA Χ NA Χ Χ NA Χ Χ Χ 48 Χ NA NA NA Χ NA Χ NA Χ 54 NA 60 NA NA

Notes: PVC Polyvinyl Chloride Pipe

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

X Permitted

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

PIPE CULVERTS (metric) TABLE IIIB: PLASTIC PIPE PERMITTED FOR A GIVEN PIPE DIAMETER AND FILL HEIGHT OVER THE TOP OF THE PIPE

			Type 5				Type 6		Type 7				
Nominal			t: Greater				t: Greater th			nt: Greater t			
Diameter		not e	xceeding 7	<u>'.5 m</u>		not	exceeding 9	9 m	not exceeding 10.5 m				
(mm)	PVC	CPVC	PE	CPE	CPP	PVC	CPVC	PE	PVC	CPVC	PE		
250	Х	QPL	Х	QPL	NA	Х	QPL	Х	Х	QPL	Х		
300	X	QPL	X	QPL	QPL	X	QPL	X	X	QPL	X		
375	Χ	QPL	NA	NA	QPL	Х	QPL	NA	X	QPL	NA		
450	X	QPL	X	NA	NA	X	QPL	X	X	QPL	X		
525	X	QPL	NA	NA	NA	X	QPL	NA	X	QPL	NA		
600	Χ	QPL	Χ	NA	NA	Х	QPL	Х	Х	QPL	Х		
675	X	NA	NA	NA	NA	X	NA	NA	X	NA	NA		
750	X	QPL	X	NA	QPL	X	QPL	X	X	QPL	X		
900	Χ	QPL	Χ	NA	NA	Х	QPL	Х	Х	QPL	Х		
1000	X	NA	X	NA	NA	X	NA	X	X	NA	X		
1200	X	NA	X	NA	NA	X	NA	X	X	NA	X		
1350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

Notes: PVC

PVC Polyvinyl Chloride Pipe
CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior
CPP Corrugated Polypropylene Pipe with a Smooth Interior

Χ Permitted

QPL Permitted for the producers approved for that diameter in the Department's qualified product list Not Acceptable

NA

STORM SEWERS KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

				Тур	e 1				Type 2							
Nominal Diameter in.			Fil	l Height: with 1	3' and les	SS,			Fill Height: Greater than 3', not exceeding 10'							
"".	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP
10	NA	3	Х	Χ	QPL	Х	QPL	NA	NA	1	*X	Х	QPL	Χ	QPL	NA
12	IV	NA	Х	Χ	QPL	Χ	QPL	QPL	II	1	*X	Χ	QPL	Χ	QPL	QPL
15	IV	NA	NA	Χ	QPL	NA	QPL	QPL	II	1	*X	Χ	QPL	NA	QPL	QPL
18	IV	NA	NA	Χ	QPL	Χ	QPL	QPL	II	2	Χ	Χ	QPL	Х	QPL	QPL
21	III	NA	NA	X	QPL	NA	QPL	NA	II	2	Х	Χ	QPL	NA	QPL	NA
24	III	NA	NA	Χ	QPL	Χ	QPL	QPL	II	2	Χ	Χ	QPL	Χ	QPL	QPL
27	III	NA	NA	Х	NA	NA	NA	NA	II	3	Х	Χ	NA	NA	NA	NA
30	IV	NA	NA	Х	QPL	Χ	QPL	QPL	II	3	Х	Χ	QPL	Х	QPL	QPL
33	Ш	NA	NA	NA	NA	NA	NA	NA	II	NA	Χ	NA	NA	NA	NA	NA
36	III	NA	NA	Χ	QPL	Χ	QPL	QPL	=	NA	Х	Χ	QPL	X	QPL	QPL
42	II	NA	Х	X	NA	Χ	QPL	QPL	II	NA	Х	Χ	NA	Х	QPL	QPL
48	II	NA	Χ	Χ	NA	Χ	QPL	QPL	II	NA	Χ	Χ	NA	Χ	QPL	QPL
54	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
60	II	NA	NA	NA	NA	NA	QPL	QPL	II	NA	NA	NA	NA	NA	QPL	QPL
66	II	NA	NA	NA	NA	NA	NA	NA	П	NA	NA	NA	NA	NA	NA	NA
72	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
78	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
84	II	NA	NA	NA	NA	NA	NA	NA	П	NA	NA	NA	NA	NA	NA	NA
90	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
96	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA
102	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA
108		NA	NA - Culus of	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe

CSP Concrete Sewer, Storm drain, and Culvert Pipe (number in column indicates strength class)

Extra Strength Clay Pipe **ESCP** PVC

Polyvinyl Chloride Pipe Corrugated Polyvinyl Chloride Pipe with a Smooth Interior CPVC

PΕ Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

Permitted Χ

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

Not Acceptable NA

May also use Standard Strength Clay Pipe

STORM SEWERS (metric) KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

				Тур	e 1				Type 2							
Nominal Diameter mm			Fill	Height: 7	1 m and le	ess,							eater thar eding 3 m			
	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP	RCCP	CSP	ESCP	PVC	CPVC	PE	CPE	CPP
250	NA	3	Х	Х	QPL	Х	QPL	NA	NA	1	*X	Х	QPL	Х	QPL	NA
300	IV	NA	Х	Х	QPL	X	QPL	QPL	II	1	*X	Х	QPL	Х	QPL	QPL
375	IV	NA	NA	Χ	QPL	NA	QPL	QPL	П	1	*X	Χ	QPL	NA	QPL	QPL
450	IV	NA	NA	Х	QPL	Х	QPL	QPL	ll l	2	Х	Х	QPL	Х	QPL	QPL
525	III	NA	NA	Х	QPL	NA	QPL	NA	ll l	2	Х	Х	QPL	NA	QPL	NA
600	III	NA	NA	Χ	QPL	Χ	QPL	QPL	II	2	Χ	Χ	QPL	Х	QPL	QPL
675	III	NA	NA	Х	NA	NA	NA	NA	ll l	3	Х	Х	NA	NA	NA	NA
750	IV	NA	NA	Х	QPL	Х	QPL	QPL	ll l	3	Х	Х	QPL	Х	QPL	QPL
825	III	NA	NA	NA	NA	NA	NA	NA	II	NA	Χ	NA	NA	NA	NA	NA
900	III	NA	NA	Х	QPL	Х	QPL	QPL	ll l	NA	Х	Х	QPL	Х	QPL	QPL
1050	II	NA	Х	Х	NA	Х	QPL	QPL	II	NA	Х	X	NA	Х	QPL	QPL
1200	II	NA	Χ	Χ	NA	Χ	QPL	QPL	II	NA	Χ	Χ	NA	Х	QPL	QPL
1350	ll l	NA	NA	NA	NA	NA	NA	NA	ll l	NA	NA	NA	NA	NA	NA	NA
1500	II	NA	NA	NA	NA	NA	QPL	QPL	II	NA	NA	NA	NA	NA	QPL	QPL
1650	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
1800	ll l	NA	NA	NA	NA	NA	NA	NA	ll l	NA	NA	NA	NA	NA	NA	NA
1950	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
2100	II	NA	NA	NA	NA	NA	NA	NA	II	NA	NA	NA	NA	NA	NA	NA
2250	ll l	NA	NA	NA	NA	NA	NA	NA	ll l	NA	NA	NA	NA	NA	NA	NA
2400	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA
2550	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA
2700	II	NA	NA	NA	NA	NA	NA	NA	III	NA	NA	NA	NA	NA	NA	NA

Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe RCCP

CSP Concrete Sewer, Storm drain, and Culvert Pipe (number in column indicates strength class)

Extra Strength Clay Pipe **ESCP** PVC

Polyvinyl Chloride Pipe Corrugated Polyvinyl Chloride Pipe with a Smooth Interior CPVC

PΕ Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

Permitted Χ

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

Not Acceptable NA

May also use Standard Strength Clay Pipe

STORM SEWERS KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE Type 3 Type 4 Nominal Fill Height: Greater than 10' Fill Height: Greater than 15' Diameter not exceeding 15' not exceeding 20' in. PVC **RCCP CSP ESCP** CPVC CPE CPP **RCCP** PVC **CPVC** CPE CPP PΕ **CSP ESCP** PΕ NA 2 Χ QPL Χ QPL 3 Χ QPL Χ QPL 10 Χ NA NA Х NA 12 2 Χ Χ QPL Χ QPL QPL Χ QPL Χ QPL QPL Ш IV NA NA QPL 15 Ш 3 Χ Χ QPL NA QPL QPL IV NA NA Χ NA QPL QPL 18 Χ Χ Х Х QPL Ш NA QPL Χ QPL QPL IV NA NA QPL QPL 21 Ш NA NA Χ QPL NA QPL NA IV NA NA Х QPL NA NA NA Χ QPL QPL QPL Χ QPL QPL 24 Ш NA NA Χ IV NA NA Χ NA 27 NA Χ NA IV NA X NA NA NA NA NA NA NA NA NA 30 Х QPL QPL QPL Х QPL NA NA Χ IV NA NA QPL Х NA Ш 33 NA NA NA NA IV NA NA NA NA Ш NA NA NA NA NA NA 36 Χ QPL QPL QPL Χ QPL NA NA Χ QPL IV NA NA Χ NA 42 NA Χ Χ QPL IV Х NA Χ NA Ш NA NA NA NA NA NA 48 Χ QPL Х Χ Ш NA NA Х NA NA IV NA NA NA NA NA 54 Ш NA NA NA NA NA NA NA IV NA NA NA NA NA NA NA 60 NA NA QPL NA NA Ш NA NA NA NA IV NA NA NA NA NA 66 NA NA NA NA NA NA NA IV NA NA NA NA NA NA NA 72 NA NA IV Ш NA 78 NA NA NA NA NA NA NA NA NA Ш NA NA NA IV NA NA 84 NA IV NA Ш NA 90 NA NA NA NA NA NA NA 1680 NA NA NA NA NA NA NA Ш 96 Ш NA NA NA NA NA NA NA 1690 NA NA NA NA NA NA NA 102 NA 1700 Ш NA NA

NA

NA

NA

NA

NA

NA

NA NA NA 1710 NA RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (RCCP with a number instead of a Roman numeral shall be furnished

according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.)

CSP Concrete Sewer, Storm drain, and Culvert Pipe (number in column indicates strength class)

NA

ESCP Extra Strength Clay Pipe

Polyvinyl Chloride Pipe PVC

1360

NA

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

NA

PΕ Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

Permitted Χ

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QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

STORM SEWERS (metric) KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE Type 3 Type 4 Nominal Fill Height: Greater than 3 m, Fill Height: Greater than 4.5 m, Diameter not exceeding 4.5 m not exceeding 6 m mm **RCCP CSP ESCP** PVC CPVC CPE CPP **RCCP PVC** CPE CPP PΕ **CSP ESCP CPVC** PΕ 250 NA 2 QPL Χ QPL NA 3 Χ QPL Χ QPL NA Χ Χ NA Х 300 2 Χ Χ QPL Χ QPL QPL Χ QPL Χ QPL QPL IV NA NA Ш 375 Ш 3 Χ Χ QPL NA QPL QPL IV NA NA Χ QPL NA QPL QPL 450 Χ Χ Х Х QPL QPL Ш NA QPL Χ QPL QPL IV NA NA QPL 525 Ш NA NA Χ QPL NA QPL NA IV NA NA Х QPL NA NA NA Χ QPL QPL QPL Х QPL QPL 600 Ш NA NA Χ IV NA NA Χ NA 675 NA Χ NA IV NA NA X NA NA NA NA NA NA NA NA Х QPL QPL QPL Х QPL 750 Ш NA NA Χ IV NA NA QPL Х NA 825 NA NA NA NA IV NA NA NA NA Ш NA NA NA NA NA NA Χ QPL QPL QPL Χ QPL 900 NA NA Χ QPL IV NA NA Χ NA 1050 NA Χ NA Χ QPL IV Х NA Χ NA NA NA NA NA NA 1200 Х QPL Х Χ Ш NA NA Χ NA NA IV NA NA NA NA NA 1350 Ш NA NA NA NA NA NA NA IV NA NA NA NA NA NA NA 1500 NA NA QPL IV NA NA NA Ш NA NA NA NA NA NA NA NA 1650 NA NA NA NA NA NA NA IV NA NA NA NA NA NA NA 1800 NA NA IV NA NA NA Ш NA NA NA NA NA NA NA NA NA 1950 NA Ш NA NA IV NA NA 2100 NA IV NA NA Ш NA 2250 NA NA NA NA NA NA NA 80 NA NA NA NA NA NA NA Ш 2400 Ш NA NA NA NA NA NA NA 80 NA NA NA NA NA NA NA 2550 NA 80 Ш NA 2700 70 NA NA NA NA NA NA NA 80 NA NA NA NA NA NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 25.4 micro-meter crack.)

CSP Concrete Sewer, Storm drain, and Culvert Pipe (number in column indicates strength class)

ESCP Extra Strength Clay Pipe PVC Polyvinyl Chloride Pipe

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

PE Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

X Permitted

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

STORM SEWERS KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

			Тур	e 5				Тур	pe 6		Type 7				
Nominal Diameter in.		Fill H	leight: Gr not exce		n 20',			eight: Gr	eater thated	n 25',		eight: Gre not excee	eater than eding 35'	30',	
"".	RCCP	PVC	CPVC	PE	CPE	CPP	RCCP	PVC	CPVC	PE	RCCP	PVC	CPVC	PE	
10	NA	Χ	QPL	Х	QPL	NA	NA	Χ	QPL	Χ	NA	Χ	QPL	Х	
12	IV	X	QPL	Х	QPL	QPL	V	Х	QPL	X	V	Х	QPL	Χ	
15	IV	Χ	QPL	NA	NA	QPL	V	Χ	QPL	NA	V	Χ	QPL	NA	
18	IV	Х	QPL	Х	NA	NA	V	Х	QPL	Х	V	Х	QPL	Χ	
21	IV	Χ	QPL	NA	NA	NA	V	Х	QPL	NA	V	Χ	QPL	NA	
24	IV	Χ	QPL	Χ	NA	NA	V	Χ	QPL	Χ	V	Χ	QPL	Χ	
27	IV	Х	NA	NA	NA	NA	V	Х	NA	NA	V	Х	NA	NA	
30	IV	Χ	QPL	Х	NA	QPL	V	Х	QPL	Χ	V	Χ	QPL	Χ	
33	IV	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA	
36	IV	Х	QPL	Х	NA	NA	V	Х	QPL	Х	V	Х	QPL	Χ	
42	IV	Χ	NA	Х	NA	NA	V	Х	NA	Χ	V	Χ	NA	Χ	
48	IV	Χ	NA	Χ	NA	NA	V	Χ	NA	Χ	V	Χ	NA	Χ	
54	IV	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA	
60	IV	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA	
66	IV	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA	
72	V	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA	
78	2020	NA	NA	NA	NA	NA	2370	NA	NA	NA	2730	NA	NA	NA	
84	2020	NA	NA	NA	NA	NA	2380	NA	NA	NA	2740	NA	NA	NA	
90	2030	NA	NA	NA	NA	NA	2390	NA	NA	NA	2750	NA	NA	NA	
96	2040	NA	NA	NA	NA	NA	2400	NA	NA	NA	2750	NA	NA	NA	
102	2050	NA	NA	NA	NA	NA	2410	NA	NA	NA	2760	NA	NA	NA	
108	2060	NA	NA	NA	NA	NA	2410	NA	NA	NA	2770	NA	NA	NA	

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 0.01 in crack.)

PVC Polyvinyl Chloride Pipe

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

PE Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

X Permitted

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable

STORM SEWERS (metric) KIND OF MATERIAL PERMITTED AND STRENGTH REQUIRED FOR A GIVEN PIPE DIAMETERS AND FILL HEIGHTS OVER THE TOP OF THE PIPE

1			Тур	e 5				Тур	oe 6		Type 7			
Nominal Diameter mm	Fill Heldut: (3reater than 6 m								ater than eding 9 m	7.5 m,		•	eater than ling 10.5 m	
	RCCP	PVC	CPVC	PE	CPE	CPP	RCCP	PVC	CPVC	PE	RCCP	PVC	CPVC	PE
250	NA	Х	QPL	Х	QPL	NA	NA	Х	QPL	Χ	NA	Х	QPL	Х
300	IV	Χ	QPL	Χ	QPL	QPL	V	Χ	QPL	Χ	V	X	QPL	X
375	IV	Χ	QPL	NA	NA	QPL	V	Χ	QPL	NA	V	Χ	QPL	NA
450	IV	Χ	QPL	Χ	NA	NA	V	Χ	QPL	Χ	V	Χ	QPL	X
525	IV	Χ	QPL	NA	NA	NA	V	Х	QPL	NA	V	Χ	QPL	NA
600	IV	Χ	QPL	Χ	NA	NA	V	Χ	QPL	Χ	V	Χ	QPL	Χ
675	IV	Χ	NA	NA	NA	NA	V	Х	NA	NA	V	Χ	NA	NA
750	IV	Χ	QPL	Χ	NA	QPL	V	Х	QPL	Χ	V	Χ	QPL	X
825	IV	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA
900	IV	Χ	QPL	Χ	NA	NA	V	Х	QPL	Χ	V	Х	QPL	Χ
1050	IV	Χ	NA	Χ	NA	NA	V	Х	NA	Χ	V	X	NA	X
1200	IV	Χ	NA	Χ	NA	NA	V	Χ	NA	Χ	V	Χ	NA	Χ
1350	IV	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA
1500	IV	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA
1650	IV	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA
1800	V	NA	NA	NA	NA	NA	V	NA	NA	NA	V	NA	NA	NA
1950	100	NA	NA	NA	NA	NA	110	NA	NA	NA	130	NA	NA	NA
2100	100	NA	NA	NA	NA	NA	110	NA	NA	NA	130	NA	NA	NA
2250	100	NA	NA	NA	NA	NA	110	NA	NA	NA	130	NA	NA	NA
2400	100	NA	NA	NA	NA	NA	120	NA	NA	NA	130	NA	NA	NA
2550	100	NA	NA	NA	NA	NA	120	NA	NA	NA	130	NA	NA	NA
2700 PCCD PC	100	NA	NA	NA	NA	NA	120	NA	NA	NA	130	NA	NA o furnicho	NA

RCCP Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (RCCP with a number instead of a Roman numeral shall be furnished according to AASHTO M170 Section 6. This number represents the D-load to produce a 25.4 micro-meter crack.)

PVC Polyvinyl Chloride Pipe

CPVC Corrugated Polyvinyl Chloride Pipe with a Smooth Interior

PE Polyethylene Pipe

CPE Corrugated Polyethylene Pipe with a Smooth Interior CPP Corrugated Polypropylene Pipe with a Smooth Interior

X Permitted

QPL Permitted for the producers approved for that diameter in the Department's qualified product list

NA Not Acceptable"

Revise the first paragraph of Article 1040.03 of the Standard Specifications to read:

"1040.03 Polyvinyl Chloride (PVC) Pipe. Acceptance testing of PVC pipe and fittings shall be accomplished during the same construction season in which they are installed. The pipe shall meet the following additional requirements."

Revise Article 1040.04(b) of the Standard Specifications to read:

"(b) Corrugated PE Pipe with a Smooth Interior. The manufacturer shall be listed as compliant through the NTPEP program and the pipe shall be according to AASHTO M 294 (nominal size – 12 to 60 in. (300 to 1500 mm)). The pipe shall be Type S or D."

Revise the first paragraph of Article 1040.04(d) of the Standard Specifications to read:

"(d) PE Pipe with a Smooth Interior. The pipe shall be according to ASTM F 714 (DR 32.5) with a minimum cell classification of PE 335434 as defined in ASTM D 3350."

Revise the first paragraph of Article 1040.08 of the Standard Specifications to read:

"1040.08 Polypropylene (PP) Pipe. Storage and handling shall be according to the manufacturer's recommendations, except in no case shall the pipe be exposed to direct sunlight for more than six months. Acceptance testing of the pipe shall be accomplished during the same construction season in which it is installed. The pipe shall meet the following additional requirements."

80434

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 5.00 % 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

LUMINAIRES, LED (BDE)

Effective: April 1, 2019 Revised: January 1, 2022

<u>Description</u>. This work shall consist of furnishing and installing light emitting diode (LED) luminaires. Work shall be according to Sections 801, 821, and 1067 of the Standard Specifications, except as modified herein.

<u>Submittals</u>. In addition to the requirements listed in Article 801.05(a), submittals for LED luminaires shall include the following.

- Completed manufacturer's luminaire ordering form with the full catalog number provided.
- Descriptive literature and catalog cuts for the luminaire, driver, and surge protective device.
- Lighting calculations generated with AGi32 software demonstrating compliance with the
 Luminaire Performance Table(s) shown in the contract. These calculations shall be
 performed to the following criteria: photopic units shall be used; calculations shall be
 performed to an accuracy matching the number of significant digits given in the Luminaire
 Performance Table(s); point-by-point illuminance, luminance, and veiling luminance ratios
 demonstrating the submitted luminaire meets the lighting metrics specified in the
 Luminaire Performance Table(s) using IES RP-8 methods.

Upon request by the Engineer, submittals for LED Luminaires shall also include any or all the following.

- IES file associated with each submitted luminaire in IES LM-63 format.
- TM-21 calculator spreadsheet (XLSX or PDF format) and if available, TM-28 report for the specified luminaire or luminaire family. Both reports shall be for 50,000 hours at an ambient temperature of 77 °F (25 °C).
- LM-79 report with National Voluntary Laboratory Accreditation Program (NVLAP) current
 at the time of testing in PDF format inclusive of the following: isofootcandle diagram with
 half candela contour and maximum candela point; polar plots through maximum plane and
 maximum cone; coefficient of utilization graph; candela table; and spectral distribution
 graph and chromaticity diagram.
- LM-80 report for the specified LED package in PDF format and if available, LM-84 report for the specified luminaire or luminaire family in PDF format. Both reports shall be conducted by a laboratory with NVLAP certification current at the time of testing.
- In Situ Temperature Measurement Test (ISTMT) report for the specified luminaire or luminaire family in PDF format.

- Vibration test report in accordance with ANSI C136.31 in PDF format.
- ASTM B117/ASTM D1654 (neutral salt spray) test and sample evaluation report in PDF format.
- ASTM G154 (ASTM D523) gloss test report in PDF format.
- LED drive current, total luminaire input wattage, and current over the operating voltage range at an ambient temperature of 77 °F (25 °C).
- Power factor (pf) and total harmonic distortion (THD) at maximum and minimum supply and at nominal voltage for the dimmed states of 70%, 50%, and 30% full power.
- Ingress protection (IP) test reports, conducted according to ANSI C136.25 requirements, for the driver and optical assembly in PDF format.
- Installation, maintenance, and cleaning instructions in PDF format, including recommendations on periodic cleaning methods.
- Documentation in PDF format that the reporting laboratory is certified to perform the required tests.

Roadway Luminaires. Revise Article 821.02(d) to read.

"(d) Light Source1067.06"

Revise the third paragraph of Article 821.03 to read.

"Each luminaire driver and/or driver arrangement shall be checked to ensure compatibility with the project power supply."

Replace the fifth paragraph of Article 821.03 with the following.

"No luminaire shall be installed before it is approved. When independent luminaire testing is required, full approval will not be given until complete test results which demonstrate compliance with the contract documents have been reviewed and accepted by the Engineer. Independent luminaire testing will be required, and shall be conducted, according to Article 1067.01(k)".

Revise the last paragraph of Article 821.03 to read.

"When installing or adjusting the luminaire, care shall be taken to avoid touching the lenses or allowing contaminants to be deposited on any part of the optical assembly. Each lens shall be free of all dirt, smudges, etc. Should the luminaire require cleaning, the luminaire manufacturer's cleaning instructions shall be strictly followed."

Revise Article 821.08 to read.

"821.08 Basis of Payment. This work will be paid for at the contract unit price per each for LUMINAIRE, LED, ROADWAY, of the output designation specified; LUMINAIRE, LED, HIGHMAST, of the output designation specified; LUMINAIRE, LED, UNDERPASS, WALLMOUNT, of the output designation specified; LUMINAIRE, LED, UNDERPASS, SUSPENDED, of the output designation specified; LUMINAIRE, LED, SIGN LIGHTING, of the output designation specified.

<u>Luminaires</u>. Revise Articles 1067.01 through 1067.06 to read.

- "1067.01 General. The size, weight, and shape of the luminaire shall be designed so as not to incite detrimental vibrations in its respective pole and it shall be compatible with the pole and arm. All electrical and electronic components of the luminaire shall comply with the requirements of Restriction of Hazardous Materials (RoHS) regulations. The luminaire shall be listed for wet locations by an NRTL and shall meet the requirements of UL 1598 and UL 8750.
 - (a) Labels. An internal label shall be provided indicating the luminaire is suitable for wet locations and indicating the luminaire is an NRTL listed product to UL1598 and UL8750. The internal label shall also comply with the requirements of ANSI C136.22.
 - An external label consisting of two black characters on a white background with the dimensions of the label and the characters as specified in ANSI C136.15 for HPS luminaires. The first character shall be the alphabetical character representing the initial lumen output as specified in Table 1 of Article 1067.06(c). The second character shall be the numerical character representing the transverse light distribution type as specified in IES RP-8 (i.e. Types 1, 2, 3, 4, or 5).
 - (b) Surge Protection. The luminaire shall comply the requirements of ANSI C136.2 for electrical transient immunity at the "Extreme" level (20KV/10KA) and shall be equipped with a surge protective device (SPD) that is UL1449 compliant with indicator light. An SPD failure shall open the circuit to protect the driver.
 - (c) Optical Assembly. The optical assembly shall have an IP66 or higher rating in accordance with ANSI C136.25. The circuiting of the LED array shall be designed to minimize the effect of individual LED failures on the operation of other LEDs. All optical components shall be made of glass or a UV stabilized, non-yellowing material.
 - (d) Housing. All external surfaces shall be cleaned in accordance with the manufacturer's recommendations and be constructed in such a way as to discourage the accumulation of water, ice, and debris.
 - (e) Driver. The driver shall be integral to the luminaire and shall be capable of receiving indefinite open and short circuit output conditions without damage.

The driver shall incorporate the use of thermal foldback circuitry to reduce output current under abnormal driver case temperature conditions and shall be rated for a lifetime of 100,000 hours at an ambient temperature exposure of 77 °F (25 °C) to the luminaire. If the driver has a thermal shut down feature, it shall not turn off the LEDs when operated at 104 °F (40 °C) or less.

The driver shall have an input voltage range of 120 to 277 volts (\pm 10%) or 347 to 480 volts (\pm 10%) according to the contract documents. When the driver is operating within the rated input voltage range and in an un-dimmed state, the power factor measurement shall be not less than 0.9 and the THD measurement shall be no greater than 20%.

The driver shall meet the requirements of the FCC Rules and Regulations, Title 47, Part 15 for Class A devices with regard to electromagnetic compatibility. This shall be confirmed through the testing methods in accordance with ANSI C63.4 for electromagnetic interference.

The driver shall be dimmable using the protocol listed in the Luminaire Performance Table shown in the contract.

(f) Photometric Performance. The luminaire shall be IES LM-79 tested by a laboratory holding accreditation from the NVLAP for IES LM-79 testing procedures. At a minimum the LM-79 report shall include a backlight/uplight/glare (BUG) rating and a luminaire classification system (LCS) graph showing lumen values and percent lumens by zone as described in IES RP-8. The uplight of the BUG rating shall be U=0.

The luminaire shall also meet the requirements of the Luminaire Performance Table shown in the contract.

(g) Finish. The luminaire shall have a baked acrylic enamel finish. The color of the finish shall be gray, bronze, or black to match the pole or tower on which the luminaire is mounted.

The finish shall have a rating of six or greater according to ASTM D1654, Section 8.0 Procedure A – Evaluation of Rust Creepage for Scribed Samples after exposure to 1000 hours of testing according to ASTM B117 for painted or finished surfaces under environmental exposure.

The luminaire finish shall have less than or equal to 30% reduction of gloss according to ASTM D523 after exposure of 500 hours to ASTM G154 Cycle 6 QUV® accelerated weathering testing.

- (h) Hardware. All hardware shall be stainless steel or of other corrosion resistant material approved by the Engineer.
- (i) Vibration Testing. All luminaires, with the exception of underpass and sign lighting luminaires, shall be subjected to and pass vibration testing requirements at "3G" minimum

zero to peak acceleration in accordance with ANSI C136.31 requirements using the same luminaire. To be accepted, the luminaire housing, hardware, and each individual component shall pass this test with no noticeable damage and the luminaire must remain fully operational after testing.

- (j) Wiring. All wiring in the luminaire shall be rated for operation at 600V, 221 °F (105 °C).
- (k) Independent Luminaire Testing. When a contract has 30 or more luminaires of the same manufacturer's catalog number, that luminaire shall be independently tested to verify it will meet the contract requirements. The quantity of luminaires requiring testing shall be one luminaire for the first 30 plus one additional luminaire for each additional 50 luminaires of that catalog number. Testing is not required for temporary lighting luminaires.

Prior to testing the Contractor shall propose a properly accredited laboratory and a qualified independent witness, submitting their qualifications to the Engineer for approval. After approval, the Contractor shall coordinate the testing and pay all associated costs, including travel expenses, for the independent witness.

(1) Independent Witness. The independent witness shall select from the project luminaires at the manufacturer's facility the luminaires for testing. In all cases, the selection of luminaires shall be a random selection from the entire completed lot of luminaires required for the contract. Selections from partial lots will not be allowed. The independent witness shall mark each sample luminaire's shipping carton with the IDOT contract number and a unique sample identifier.

At the time of random selection, the independent witness shall inspect the luminaire(s) for compliance with all physical, mechanical, and labeling requirements for luminaires according to Sections 821 and 1067. If deficiencies are found during the physical inspection, the Contractor shall have all luminaires of that manufacturer's catalog number inspected for the identified deficiencies and shall correct the problem(s) where found. Random luminaire selection and physical inspection must then be repeated. When the physical inspection is successfully completed, the independent witness shall mark the project number and sample identifier on the interior housing and driver of the luminaires and have them shipped to the laboratory.

The independent witness shall be present when testing is approved to be performed by the luminaire manufacturer. If the tests are performed by a laboratory independent of the luminaire manufacturer, distributor, and Contractor, the independent witness need not be present during the testing.

(2) Laboratory Testing. Luminaires shall be tested at an NVLAP accredited laboratory approved for each of the required tests. The testing shall include photometric, colorimetric, and electrical testing according to IES LM-79. Colorimetric values shall be determined from total spectral radiant flux measurements using a spectroradiometer. Photometric testing shall be according to IES recommendations and as a minimum, shall yield an isofootcandle chart, with max candela point and half

candela trace indicated, an isocandela diagram, maximum plane and maximum cone plots of candela, a candlepower table (house and street side), a coefficient of utilization chart, a luminous flux distribution table, BUG rating report, and complete calculations based on specified requirements and test results.

All testing shall cover the full spherical light output at a maximum of 5 degree intervals at the vertical angles. The vertical angles shall run from 0 to 180 degrees. There shall be a minimum of 40 lateral test planes listed in Fig. 1 of IES LM-31 plus the two planes containing the maximum candela on the left and right sides of the luminaire axis. Before testing, the luminaire when mounted on the goniometer shall be scanned for vertical and horizontal angles of maximum candela and these planes included in the test. The luminaire shall be checked for a bi-symmetric light distribution. Individual tests must be conducted for each hemisphere, quadrant, and left/right sides.

The results for each photometric and colorimetric test performed shall be presented in a standard IES LM-79 report that includes the contract number, sample identifier, and the outputs listed above. The calculated results for each sample luminaire shall meet or exceed the contract specified levels in the luminaire performance table(s). The laboratory shall mark its test identification number on the interior of each sample luminaire.

Electrical testing shall be in according to IES LM-79 as well as NEMA and ANSI standards. The report shall list luminaire characteristics including input amperes, watts, power factor, total harmonic distortion, and LED driver current for full and partial power.

- (3) Summary Test Report. The summary test report shall consist of a narrative documenting the test process, highlight any deficiencies and corrective actions, and clearly state which luminaires have met or exceeded the test requirements and may be released for delivery to the jobsite. Photographs shall also be used as applicable to document luminaire deficiencies and shall be included in the test report. The summary test report shall include the Luminaire Physical Inspection Checklist (form BDE 5650), photometric and electrical test reports, and point-by-point photometric calculations performed in AGi32 sorted by luminaire manufacturers catalog number. All test reports shall be certified by the independent test laboratory's authorized representative or the independent witness, as applicable, by a dated signature on the first page of each report. The summary test reports shall be delivered to the Engineer and the Contractor as an electronic submittal. Hard copy reports shall be delivered to the Engineer for record retention.
- (4) Approval of Independent Testing Results. Should any of the tested luminaires fail to satisfy the specifications and perform according to approved submittal information, all luminaires of that manufacturers catalog number shall be deemed unacceptable and shall be replaced by alternate equipment meeting the specifications. The submittal and testing process shall then be repeated in its entirety. The Contractor may request in writing that unacceptable luminaires be corrected in lieu of replacement. The

request shall identify the corrections to be made and upon approval of the request, the Contractor shall apply the corrections to the entire lot of unacceptable luminaires. Once the corrections are completed, the testing process shall be repeated, including selection of a new set of sample luminaires. The number of luminaires to be tested shall be the same quantity as originally tested.

The process of retesting, correcting, or replacing luminaires shall be repeated until luminaires for each manufacturers catalog number are approved for the project. Corrections and re-testing shall not be grounds for additional compensation or extension of time. No luminaires shall be shipped from the manufacturer to the jobsite until all luminaire testing is completed and approved in writing.

Submittal information shall include a statement of intent to provide the testing as well as a request for approval of the chosen independent witness and laboratory. All summary test reports, written reports, and the qualifications of the independent witness and laboratory shall be submitted for approval to the Engineer with a copy to the Bureau of Design and Environment, 2300 S Dirksen Parkway, Room 330 Springfield, IL 62764.

1067.02 Roadway Luminaires. Roadway luminaires shall be according to Article 1067.01 and the following.

The luminaire shall be horizontally mounted and shall be designed to slip-fit on a 2-3/8 in. (60 mm) outside diameter pipe arm with a stop to limit the amount of insertion to 7 in. (180 mm). It shall not be necessary to remove or open more than the access door to mount the luminaire.

The effective projected area (EPA) of the luminaire shall not exceed 1.6 sq ft (0.149 sq m) and the weight, including accessories, shall not exceed 40 lb (18.14 kg). If the weight of the luminaire is less than 20 lb (9.07 kg), weight shall be added to the mounting arm or a supplemental vibration damper installed as approved by the Engineer.

The luminaire shall be equipped with both internal and external leveling indicators. The external leveling indicator shall be clearly visible in daylight to an observer directly under the luminaire at a mounting height of 50 ft (15.2 m).

The luminaire shall be fully prewired to accept a seven-pin, twist-lock receptacle that is compliant with ANSI C136.41. All receptacle pins shall be connected according to TALQ Consortium protocol.

The luminaire shall be provided with an installed shorting cap that is compliant with ANSI C136.10.

1067.03 Highmast Luminaires. Highmast luminaires shall be according to Article 1067.01 and the following.

The luminaire shall be horizontally mounted and shall be designed and manufactured for highmast tower use. The EPA of the luminaire shall not exceed 3.0 sq ft (0.279 sq m) and the weight, including accessories, shall not exceed 85 lb (38.6 kg).

The optical assembly shall be capable of being rotated 360 degrees. A vernier scale shall be furnished on the axis of rotation for aiming the luminaire in relation to its mounting tenon arm. The scale shall be graduated in 5 degree increments or less. The luminaire shall be clearly marked at the vernier as to 'house-side' and 'street-side' to allow proper luminaire orientation.

1067.04 Underpass Luminaires. Underpass luminaries shall be according to Article 1067.01 and the following.

The underpass luminaire shall be complete with all supports, hardware, and appurtenant mounting accessories. The underpass luminaire shall be suitable for lighting a roadway underpass at an approximate mounting height of 15 ft (4.5 m) from a position suspended directly above the roadway edge of pavement or attached to a wall or pier. The underpass luminaire shall meet the requirements of ANSI C136.27.

It shall not be necessary to remove more than the cover, reflector and lens to mount the luminaire. The unit shall be suitable for highway use and shall have no indentations or crevices in which dirt, salt, or other corrosives may collect.

(a) Housing. The housing and lens frame shall be made of die cast aluminum or 16 gauge (1.5 mm) minimum thickness Type 304 stainless steel. All seams in the housing enclosure shall be welded by continuous welds.

The housing shall have an opening for installation of a 3/4 in. (19 mm) diameter conduit.

- (b) Lens and Lens Frame. The frame shall not overlap the housing when closed. The luminaire shall have a flat glass lens to protect the LEDs from dirt accumulation or be designed to prevent dirt accumulation. The optic assembly shall be rated IP 66 or higher.
- **1067.05 Sign Lighting Luminaires.** Sign lighting luminaries shall be suitable for lighting overhead freeway and expressway guide signs; and shall be according to Article 1067.01.
- **1067.06 Light Sources.** The light sources in all luminaires shall be LED according to Article 1067.01 and the following.
 - (a) The light source shall be according to ANSI C136.37 for solid state light sources used in roadway and area lighting.
 - (b) The light source shall have a minimum color rendering index (CRI) of 70 and a nominal correlated color temperature (CCT) of 4000 K.
 - (c) The rated initial luminous flux (lumen output) of the light source, as installed in the luminaire, shall be according to the following table for each specified output designation.

Output Designations and Initial Luminous Flux		(for information only)
Output Designation	Initial Luminous Flux (Im)	Approximate High Pressure Sodium (HPS) Equivalent Wattage
Α	2,200	35 (Low Output)
В	3,150	50 (Low Output)
С	4,400	70 (Low Output)
D	6,300	100 (Low Output)
E	9,450	150 (Low Output)
F	12,500	200 (Med Output)
G	15,500	250 (Med Output)
Н	25,200	400 (Med Output)
I	47,250	750 (High Output)
J	63,300	1,000 (High Output)
K	80,000+	1,000+ (High Output)

Luminaires with an initial luminous flux less than or greater than the values listed in the above table may be acceptable if they meet the requirements given in the Luminaire Performance Table shown in the contract and approved by the Engineer."

PORTLAND CEMENT CONCRETE - HAUL TIME (BDE)

Effective: July 1, 2020

Revise Article 1020.11(a)(7) of the Standard Specifications to read:

"(7) Haul Time. Haul time shall begin when the delivery ticket is stamped. The delivery ticket shall be stamped no later than five minutes after the addition of the mixing water to the cement, or after the addition of the cement to the aggregate when the combined aggregates contain free moisture in excess of two percent by weight (mass). If more than one batch is required for charging a truck using a stationary mixer, the time of haul shall start with mixing of the first batch. Haul time shall end when the truck is emptied for incorporation of the concrete into the work. The maximum haul time shall be as follows.

Concrete Temperature at Point of Discharge,	Maximum Haul Time ^{1/} (minutes)	
°F (°C)	Truck Mixer or Truck Agitator	Nonagitator Truck
50 - 64 (10 - 17.5)	90	45
> 64 (> 17.5) - without retarder	60	30
> 64 (> 17.5) - with retarder	90	45

^{1/} To encourage start-up testing for mix adjustments at the plant, the first two trucks will be allowed an additional 15 minutes haul time whenever such testing is performed.

For a mixture which is not mixed on the jobsite, a delivery ticket shall be required for each load. The following information shall be recorded on each delivery ticket: (1) ticket number; (2) name of producer and plant location; (3) contract number; (4) name of Contractor; (5) stamped date and time batched; (6) truck number; (7) quantity batched; (8) amount of admixture(s) in the batch; (9) amount of water in the batch; and (10) Department mix design number.

For concrete mixed in jobsite stationary mixers, the above delivery ticket may be waived, but a method of verifying the haul time shall be established to the satisfaction of the Engineer."

RAILROAD PROTECTIVE LIABILITY INSURANCE (BDE)

Effective: December 1, 1986 Revised: January 1, 2022

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

NAMED INSURED & ADDRESS	NUMBER & SPEED OF PASSENGER TRAINS	NUMBER & SPEED OF FREIGHT TRAINS
Illinois Central Railroad Company and Its Parents 700 Pershing Road Pontiac, MI 48340	6 Passenger Trains Per Day at 1 to 79 MPH	30 Freights Per Day at 1 to 50 MPH

Class 1 RR (Y or N): Y

DOT/AAR No.: 288987G RR Mile Post: 81.00 RR Division: Illinois RR Sub-Division: Chicago

For Freight/Passenger Information Contact: Nick Burwell Phone: (319) 472-1031 For Insurance Information Contact: Phone: (319) 427-1031 Nick Burwell

3 Freights Per Day

Genesee & Wyoming Railroad Services, Inc. (Toledo, Peoria & Western Railway Corporation)

at 5 to 10 MPH 13901 Sutton Park Drive South, Suite 270

Jacksonville, FL 32224 Class 1 RR (Y or N): N

RR Mile Post: 24.53 DOT/AAR No.: 801723B RR Sub-Division: Illinois RR Division: Northern

For Freight/Passenger Information Contact: Crystal Galbreath Phone: (904) 596-7782 For Insurance Information Contact: Crystal Galbreath Phone: (904) 596-7782

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

SUBCONTRACTOR AND DBE PAYMENT REPORTING (BDE)

Effective: April 2, 2018

Add the following to Section 109 of the Standard Specifications.

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

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

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

SUBCONTRACTOR 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%"

VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

Effective: November 1, 2021

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

"The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. The lights shall be in operation while the vehicle or equipment is engaged in construction operations."

WEEKLY DBE TRUCKING REPORTS (BDE)

Effective: June 2, 2012 Revised: November 1, 2021

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 Sunday through Saturday 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 260 working days.

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

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

ATTACHMENTS

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

I. GENERAL

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

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

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

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

- 2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.
- 3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.
- 4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor

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

II. NONDISCRIMINATION

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

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

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

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

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

- 1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:
- a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.
- b. The contractor will accept as its operating policy the following statement:

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

for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

- 2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.
- 3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:
- a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.
- b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.
- c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.
- d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.
- e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.
- 4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.
- a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.
- b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.
- c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.
- **5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

- a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
- b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.
- c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.
- d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

- a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.
- b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).
- c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each
- d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.
- **7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:
- a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.
- b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.
- c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

- d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.
- 8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.
- 9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.
- a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.
- b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

- a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.
- b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.
- 11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.
 - a. The records kept by the contractor shall document the following:
- (1) The number and work hours of minority and nonminority group members and women employed in each work classification on the project;
 - (2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and
 - (3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;
- b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391.

The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-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
 - (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 federally-assisted 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 (https://www.epls.gov/), which is compiled by the General Services Administration.
- i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

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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 (https://www.epls.gov/), which is compiled by the General Services Administration.
- h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

- 1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.
- 2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

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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.