

## **If you plan to submit a bid directly to the Department of Transportation**

### **PREQUALIFICATION**

Any contractor who desires to become pre-qualified to bid on work advertised by IDOT must submit the properly completed pre-qualification forms to the Bureau of Construction no later than 4:30 p.m. prevailing time twenty-one days prior to the letting of interest. This pre-qualification requirement applies to first time contractors, contractors renewing expired ratings, contractors maintaining continuous pre-qualification or contractors requesting revised ratings. To be eligible to bid, existing pre-qualification ratings must be effective through the date of letting.

### **REQUESTS FOR AUTHORIZATION TO BID**

Contractors wanting to bid on items included in a particular letting must submit the properly completed "Request for Authorization to Bid/or Not For Bid Status" (BDE 124) and the ORIGINAL "Affidavit of Availability" (BC 57) to the proper office no later than 4:30 p.m. prevailing time, three (3) days prior to the letting date. This does not apply to Small Business Set-Asides.

### **WHO CAN BID ?**

Bids will be accepted from only those companies that request and receive written **Authorization to Bid** from IDOT's Central Bureau of Construction. This does not apply to Small Business Set-Asides.

**WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?:** When a prospective prime bidder submits a "Request for Authorization to Bid/or Not For Bid Status" (BDE 124) he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued an **Authorization to Bid or Not for Bid Report**, approved by the Central Bureau of Construction that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Authorization to Bid or Not for Bid Report** will indicate the reason for denial.

**ABOUT AUTHORIZATION TO BID:** Firms that have not received an authorization form within a reasonable time of complete and correct original document submittal should contact the department as to status. This is critical in the week before the letting. These documents must be received three days before the letting date. Firms unsure as to authorization status should call the Prequalification Section of the Bureau of Construction at the number listed at the end of these instructions.

**ADDENDA AND REVISIONS:** It is the contractor's responsibility to determine which, if any, addenda or revisions pertain to any project they may be bidding. Failure to incorporate all relevant addenda or revisions may cause the bid to be declared unacceptable.

Each addendum will be placed with the contract number. Addenda and revisions will also be placed on the Addendum/Revision Checklist and each subscription service subscriber will be notified by e-mail of each addendum and revision issued.

The Internet is the Department's primary way of doing business. The subscription server e-mails are an added courtesy the Department provides. It is suggested that bidders check IDOT's website at <http://www.dot.il.gov/desenv/delett.html> before submitting final bid information.

### ***IDOT IS NOT RESPONSIBLE FOR ANY E-MAIL FAILURES.***

Addenda Questions may be directed to the Plans and Contracts Office at (217)782-7806 or [D&Econtracts@dot.il.gov](mailto:D&Econtracts@dot.il.gov)

Technical Questions about downloading these files may be directed to Tim Garman (217)524-1642 or [Timothy.Garman@illinois.gov](mailto:Timothy.Garman@illinois.gov).

**WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?:** Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
2. Other special documentation and/or information that may be required by the contract special provisions

All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed by IDOT personnel.

**ABOUT SUBMITTING BIDS:** It is recommended that bidders deliver bids in person to insure they arrive at the proper location prior to the time specified for the receipt of bids. Any bid received at the place of letting after the time specified will not be accepted.

**WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?**

| <b>Questions Regarding</b>                   | <b>Call</b>  |
|--|--------------|
| Prequalification and/or Authorization to Bid | 217/782-3413 |
| Preparation and submittal of bids            | 217/782-7806 |
| Mailing of plans and proposals               | 217/782-7806 |

**ADDENDUMS AND REVISIONS TO THE PROPOSAL FORMS**

Bidders should verify that they have received and incorporated any addendum and/or revision prior to submitting their bid. Failure by the bidder to include an addendum or revision could result in a bid being rejected as irregular.

# 218

RETURN WITH BID

|                       |
|-----------------------|
| Proposal Submitted By |
| Name                  |
| Address               |
| City                  |

## Letting June 17, 2011

**BIDDERS NEED NOT RETURN THE ENTIRE PROPOSAL**  
(See instructions inside front cover)

### NOTICE TO PROSPECTIVE BIDDERS

This proposal can be used for bidding purposes by only those companies that request and receive written **AUTHORIZATION TO BID** from IDOT's Central Bureau of Construction. This does not apply to Small Business Set-Asides.

(SEE INSTRUCTIONS ON THE INSIDE OF COVER)

# Notice to Bidders, Specifications, Proposal, Contract and Contract Bond



**Illinois Department  
of Transportation**

Springfield, Illinois 62764

Contract No. 64987  
WINNEBAGO County  
Section 129K-1  
Route FAP 303  
Project NHF-0303(053)  
District 2 Construction Funds

PLEASE MARK THE APPROPRIATE BOX BELOW:

- A Bid Bond is included.
- A Cashier's Check or a Certified Check is included

Prepared by

Checked by

F

(Printed by authority of the State of Illinois)

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## INSTRUCTIONS

**ABOUT IDOT PROPOSALS:** All proposals issued by IDOT are potential bidding proposals. Each proposal contains all Certifications and Affidavits, a Proposal Signature Sheet and a Proposal Bid Bond. In addition, this proposal contains new statutory requirements applicable to the use of subcontractors and, in particular, includes the State Required Ethical Standards Governing Subcontractors to be signed and incorporated into all subcontracts.

**WHO CAN BID?:** Bids will be accepted from only those companies that request and receive written **Authorization to Bid** from IDOT's Central Bureau of Construction. To request authorization, a potential bidder must complete and submit Part B of the Request for Authorization to Bid/or Not For Bid Status form (BDE 124) and submit an original Affidavit of Availability (BC 57). This does not apply to Small Business Set-Asides.

**WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?:** When a prospective prime bidder submits a "**Authorization to Bid or Not for Bid**" form, he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued a **Authorization to Bid or Not for Bid Report**, approved by the Central Bureau of Construction, that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Authorization to Bid or Not for Bid Report** will indicate the reason for denial. If a contractor has requested to bid but has not received a **Authorization to Bid or Not for Bid Report**, they should contact the Central Bureau of Construction in advance of the letting date.

**WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?:** Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
2. Other special documentation and/or information that may be required by the contract special provisions

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### WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

| Questions Regarding                          | Call         |
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| Preparation and submittal of bids            | 217/782-7806 |

RETURN WITH BID



PROPOSAL

TO THE DEPARTMENT OF TRANSPORTATION

1. Proposal of \_\_\_\_\_  
\_\_\_\_\_

Taxpayer Identification Number (Mandatory) \_\_\_\_\_

for the improvement identified and advertised for bids in the Invitation for Bids as:

**Contract No. 64987  
WINNEBAGO County  
Section 129K-1  
Project NHF-0303(053)  
Route FAP 303  
District 2 Construction Funds**

**Roadway reconstruction and intersection improvements on IL Route 173 at IL Route 251 in Machesney Park.**

2. The undersigned bidder will furnish all labor, material and equipment to complete the above described project in a good and workmanlike manner as provided in the contract documents provided by the Department of Transportation. This proposal will become part of the contract and the terms and conditions contained in the contract documents shall govern performance and payments.



**RETURN WITH BID**

6. **COMBINATION BIDS.** The undersigned further agrees that if awarded the contract for the sections contained in the following combination, he/she will perform the work in accordance with the requirements of each individual proposal comprising the combination bid specified in the schedule below, and that the combination bid shall be prorated against each section in proportion to the bid submitted for the same. If an error is found to exist in the gross sum bid for one or more of the individual sections included in a combination, the combination bid shall be corrected as provided in the specifications.

**When a combination bid is submitted, the schedule below must be completed in each proposal comprising the combination.**

**If alternate bids are submitted for one or more of the sections comprising the combination, a combination bid must be submitted for each alternate.**

**Schedule of Combination Bids**

| Combination No. | Sections Included in Combination | Combination Bid |       |
|-----------------|----------------------------------|-----------------|-------|
|                 |                                  | Dollars         | Cents |
|                 |                                  |                 |       |
|                 |                                  |                 |       |
|                 |                                  |                 |       |
|                 |                                  |                 |       |

7. **SCHEDULE OF PRICES.** The undersigned bidder submits herewith, in accordance with the rules and instructions, a schedule of prices for the items of work for which bids are sought. The unit prices bid are in U.S. dollars and cents, and all extensions and summations have been made. The bidder understands that the quantities appearing in the bid schedule are approximate and are provided for the purpose of obtaining a gross sum for the comparison of bids. If there is an error in the extension of the unit prices, the unit prices shall govern. Payment to the contractor awarded the contract will be made only for actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as provided elsewhere in the contract.

8. **AUTHORITY TO DO BUSINESS IN ILLINOIS.** Section 20-43 of the Illinois Procurement Code (30 ILCS 500/20-43) provides that a person (other than an individual acting as a sole proprietor) must be a legal entity authorized to do business in the State of Illinois prior to submitting the bid.

9. **The services of a subcontractor will or may be used.**

Check box Yes   
 Check box No

For known subcontractors with subcontracts with an annual value of more than \$25,000, the contract shall include their name, address, and the dollar allocation for each subcontractor.

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10. **EXECUTION OF CONTRACT:** The Department of Transportation will, in accordance with the rules governing Department procurements, execute the contract and shall be the sole entity having the authority to accept performance and make payments under the contract. Execution of the contract by the Chief Procurement Officer or the State Purchasing Officer is for approval of the procurement process and execution of the contract by the Department. Neither the Chief Procurement Officer nor the State Purchasing Officer shall be responsible for administration of the contract or determinations respecting performance or payment there under except as otherwise permitted in the Illinois Procurement Code.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT  
 NUMBER -

64987

State Job # - C-92-162-10  
 PPS NBR - 2-02430-0100  
 County Name - WINNEBAGO - -  
 Code - 201 - -  
 District - 2 - -  
 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

| Item Number | Pay Item Description     | Unit of Measure | Quantity   | x | Unit Price | = | Total Price |
|-------------|--------------------------|-----------------|------------|---|------------|---|-------------|
| A2000114    | T-ACERX FREM AB 1-3/4    | EACH            | 15.000     |   |            |   |             |
| A2001714    | T-ACER SACR 1-3/4        | EACH            | 20.000     |   |            |   |             |
| A2006714    | T-QUERCUS MACR 1-3/4     | EACH            | 9.000      |   |            |   |             |
| B2002614    | T-MALUS ADAM TF 1-3/4    | EACH            | 15.000     |   |            |   |             |
| B2004814    | T-MALUS SAR TF 1-3/4     | EACH            | 17.000     |   |            |   |             |
| XZ127900    | RETAINING WALL REMOV     | FOOT            | 1,450.000  |   |            |   |             |
| X0322936    | REMOV EX FLAR END SEC    | EACH            | 3.000      |   |            |   |             |
| X0324102    | EM VEH SIGNL CONT SYS    | EACH            | 4.000      |   |            |   |             |
| X0327068    | PAVT COLOR & TEXTURE SPL | SQ YD           | 2,321.000  |   |            |   |             |
| X4201000    | HES PCC PVT 9 1/2 J      | SQ YD           | 1,238.000  |   |            |   |             |
| X4400110    | TEMP PAVT REMOVAL        | SQ YD           | 28,315.000 |   |            |   |             |
| X4402805    | ISLAND REMOVAL           | SQ FT           | 4,333.000  |   |            |   |             |
| X4404000    | PARKING LOT PAVT REM     | SQ YD           | 2,654.000  |   |            |   |             |
| X5610006    | DI WT MNF MJ 8X6 HTEE    | EACH            | 1.000      |   |            |   |             |
| X5610700    | WATER MAIN REMOVAL       | FOOT            | 125.000    |   |            |   |             |

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|-------------|----------------------|-----------------|----------|---|------------|---|-------------|
| X5610748    | WM LINE STOP 8       | EACH            | 1.000    |   |            |   |             |
| X6022820    | MAN SAN 5 DIA T1F CL | EACH            | 1.000    |   |            |   |             |
| X6024246    | INLETS SPL N3        | EACH            | 5.000    |   |            |   |             |
| X6024250    | INLETS SPL N5        | EACH            | 58.000   |   |            |   |             |
| X6024254    | INLETS SPL N7        | EACH            | 1.000    |   |            |   |             |
| X6024256    | INLETS SPL N8        | EACH            | 1.000    |   |            |   |             |
| X6026050    | SANITARY MANHOLE ADJ | EACH            | 8.000    |   |            |   |             |
| X6026051    | SAN MAN RECONST      | EACH            | 3.000    |   |            |   |             |
| X7010216    | TRAF CONT & PROT SPL | L SUM           | 1.000    |   |            |   |             |
| X7200105    | SIGN PANEL T1 SPL    | SQ FT           | 150.000  |   |            |   |             |
| X7200205    | SIGN PANEL T2 SPL    | SQ FT           | 52.000   |   |            |   |             |
| X8050095    | SERV INSTALL SPL     | EACH            | 4.000    |   |            |   |             |
| X8250505    | LIGHT CONTROLLER SPL | EACH            | 4.000    |   |            |   |             |
| X8410102    | TEMP LIGHTING SYSTEM | L SUM           | 1.000    |   |            |   |             |
| X8750005    | TS POST 14 SPL       | EACH            | 12.000   |   |            |   |             |

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|-------------|-----------------------|-----------------|----------|---|------------|---|-------------|
| X8770125    | S C MAA&P 28 SPL      | EACH            | 1.000    |   |            |   |             |
| X8770134    | S C MAA&P 34 SPL      | EACH            | 1.000    |   |            |   |             |
| X8770136    | S C MAA&P 36 SPL      | EACH            | 1.000    |   |            |   |             |
| X8770142    | S C MAA&P 50 SPL      | EACH            | 1.000    |   |            |   |             |
| X8770151    | S C MAA&P 55 SPL      | EACH            | 5.000    |   |            |   |             |
| X8770152    | S C MAA&P 52 SPL      | EACH            | 2.000    |   |            |   |             |
| X8770154    | S C MAA&P 54 SPL      | EACH            | 1.000    |   |            |   |             |
| X8770156    | S C MAA&P 56 SPL      | EACH            | 1.000    |   |            |   |             |
| X8770158    | S C MAA&P 58 SPL      | EACH            | 1.000    |   |            |   |             |
| X8770168    | S C MAA&P 68 SPL      | EACH            | 1.000    |   |            |   |             |
| X8770240    | S C MAA&P DMA 28&55SP | EACH            | 1.000    |   |            |   |             |
| Z0005300    | BOX CUL TO BE CLEANED | EACH            | 1.000    |   |            |   |             |
| Z0007601    | BLDG REMOV NO 1       | L SUM           | 1.000    |   |            |   |             |
| Z0007602    | BLDG REMOV NO 2       | L SUM           | 1.000    |   |            |   |             |
| Z0007603    | BLDG REMOV NO 3       | L SUM           | 1.000    |   |            |   |             |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| Z0013302    | SEGMENT CONC BLK WALL | SQ FT           | 9,452.500  |   |            |   |             |
| Z0013798    | CONSTRUCTION LAYOUT   | L SUM           | 1.000      |   |            |   |             |
| Z0014700    | CULVERT TO BE CLEANED | EACH            | 3.000      |   |            |   |             |
| Z0019500    | DRYWELL               | EACH            | 2.000      |   |            |   |             |
| Z0022800    | FENCE REMOVAL         | FOOT            | 252.000    |   |            |   |             |
| Z0024476    | FLEX DELINEATOR MAINT | EACH            | 8.000      |   |            |   |             |
| Z0025500    | F & I PROPERTY MARKER | EACH            | 88.000     |   |            |   |             |
| Z0026346    | NIGHT WORK ZONE LIGHT | L SUM           | 1.000      |   |            |   |             |
| Z0026407    | TEMP SHT PILING       | SQ FT           | 1,521.000  |   |            |   |             |
| Z0028415    | GEOTECHNICAL REINF    | SQ YD           | 81,692.000 |   |            |   |             |
| Z0030250    | IMP ATTN TEMP NRD TL3 | EACH            | 2.000      |   |            |   |             |
| Z0030260    | IMP ATTN TEMP FRN TL3 | EACH            | 3.000      |   |            |   |             |
| Z0030280    | IMP ATTN TEMP SUN TL3 | EACH            | 3.000      |   |            |   |             |
| Z0030330    | IMP ATTN REL FRD TL3  | EACH            | 5.000      |   |            |   |             |
| Z0030350    | IMP ATTN REL NRD TL3  | EACH            | 6.000      |   |            |   |             |

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| Z0030370    | IMP ATTN REL SUN TL3  | EACH            | 10.000     |   |            |   |             |
| Z0033072    | VIDEO VEH DET SYS     | EACH            | 4.000      |   |            |   |             |
| Z0056648    | SS 1 WAT MN 12        | FOOT            | 248.000    |   |            |   |             |
| Z0056668    | SS 2 WAT MN 12        | FOOT            | 93.000     |   |            |   |             |
| Z0056672    | SS 2 WAT MN 24        | FOOT            | 103.000    |   |            |   |             |
| Z0062456    | TEMP PAVEMENT         | SQ YD           | 28,977.000 |   |            |   |             |
| Z0065753    | SLOT DR 15" W/6" SLOT | FOOT            | 30.000     |   |            |   |             |
| Z0073002    | TEMP SOIL RETEN SYSTM | SQ FT           | 1,376.000  |   |            |   |             |
| Z0077700    | WOOD FENCE REM & RE-E | FOOT            | 292.000    |   |            |   |             |
| 20100110    | TREE REMOV 6-15       | UNIT            | 765.000    |   |            |   |             |
| 20100210    | TREE REMOV OVER 15    | UNIT            | 287.000    |   |            |   |             |
| 20101100    | TREE TRUNK PROTECTION | EACH            | 36.000     |   |            |   |             |
| 20200100    | EARTH EXCAVATION      | CU YD           | 45,079.000 |   |            |   |             |
| 20201200    | REM & DISP UNS MATL   | CU YD           | 10,909.000 |   |            |   |             |
| 20400800    | FURNISHED EXCAVATION  | CU YD           | 2,477.000  |   |            |   |             |

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| 20800150    | TRENCH BACKFILL       | CU YD           | 3,520.000  |   |            |   |             |
| 21101615    | TOPSOIL F & P 4       | SQ YD           | 60,975.000 |   |            |   |             |
| 25000210    | SEEDING CL 2A         | ACRE            | 8.500      |   |            |   |             |
| 25000314    | SEEDING CL 4B         | ACRE            | 0.500      |   |            |   |             |
| 25000400    | NITROGEN FERT NUTR    | POUND           | 988.000    |   |            |   |             |
| 25000500    | PHOSPHORUS FERT NUTR  | POUND           | 988.000    |   |            |   |             |
| 25000600    | POTASSIUM FERT NUTR   | POUND           | 988.000    |   |            |   |             |
| 25000750    | MOWING                | ACRE            | 9.000      |   |            |   |             |
| 25100115    | MULCH METHOD 2        | ACRE            | 9.000      |   |            |   |             |
| 25100630    | EROSION CONTR BLANKET | SQ YD           | 88,943.000 |   |            |   |             |
| 25100900    | TURF REINF MAT        | SQ YD           | 2,611.000  |   |            |   |             |
| 25200110    | SODDING SALT TOLERANT | SQ YD           | 17,603.000 |   |            |   |             |
| 25200200    | SUPPLE WATERING       | UNIT            | 158.000    |   |            |   |             |
| 28000250    | TEMP EROS CONTR SEED  | POUND           | 1,838.000  |   |            |   |             |
| 28000305    | TEMP DITCH CHECKS     | FOOT            | 588.000    |   |            |   |             |

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| 28000400    | PERIMETER EROS BAR    | FOOT            | 23,790.000 |   |            |   |             |
| 28000500    | INLET & PIPE PROTECT  | EACH            | 152.000    |   |            |   |             |
| 28100105    | STONE RIPRAP CL A3    | SQ YD           | 136.000    |   |            |   |             |
| 28100109    | STONE RIPRAP CL A5    | SQ YD           | 600.000    |   |            |   |             |
| 28200200    | FILTER FABRIC         | SQ YD           | 600.000    |   |            |   |             |
| 28500400    | ARTICUL BLOCK REV MAT | SQ YD           | 408.000    |   |            |   |             |
| 31100910    | SUB GRAN MAT A 12     | SQ YD           | 72,665.000 |   |            |   |             |
| 31100950    | SUB GRAN MAT A 21     | SQ YD           | 13,622.000 |   |            |   |             |
| 35102000    | AGG BASE CSE B 8      | SQ YD           | 1,384.000  |   |            |   |             |
| 35300500    | PCC BSE CSE 10        | SQ YD           | 84.000     |   |            |   |             |
| 40201000    | AGGREGATE-TEMP ACCESS | TON             | 162.000    |   |            |   |             |
| 40300200    | BIT MATLS PR CT       | TON             | 13.100     |   |            |   |             |
| 40600215    | P BIT MATLS PR CT     | TON             | 7.000      |   |            |   |             |
| 40600300    | AGG PR CT             | TON             | 23.000     |   |            |   |             |
| 40600525    | LEV BIND HM N50       | TON             | 112.000    |   |            |   |             |

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 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

| Item Number | Pay Item Description | Unit of Measure | Quantity   | x | Unit Price | = | Total Price |
|-------------|----------------------|-----------------|------------|---|------------|---|-------------|
| 40600837    | P LEV BIND MM N70    | TON             | 153.000    |   |            |   |             |
| 40600990    | TEMPORARY RAMP       | SQ YD           | 279.000    |   |            |   |             |
| 40603080    | HMA BC IL-19.0 N50   | TON             | 1,419.000  |   |            |   |             |
| 40603235    | P HMA BC IL19.0 N70  | TON             | 2,425.000  |   |            |   |             |
| 40603310    | HMA SC "C" N50       | TON             | 1,004.000  |   |            |   |             |
| 40603565    | P HMA SC "E" N70     | TON             | 598.000    |   |            |   |             |
| 40800050    | INCIDENTAL HMA SURF  | TON             | 182.000    |   |            |   |             |
| 42000306    | PCC PVT 8 1/4 JOINTD | SQ YD           | 2,559.000  |   |            |   |             |
| 42000411    | PCC PVT 9 1/2 JOINTD | SQ YD           | 59,782.000 |   |            |   |             |
| 42300300    | PCC DRIVEWAY PAVT 7  | SQ YD           | 913.000    |   |            |   |             |
| 44000100    | PAVEMENT REM         | SQ YD           | 52,956.000 |   |            |   |             |
| 44000155    | HMA SURF REM 1 1/2   | SQ YD           | 259.000    |   |            |   |             |
| 44000158    | HMA SURF REM 2 1/4   | SQ YD           | 2,664.000  |   |            |   |             |
| 44000200    | DRIVE PAVEMENT REM   | SQ YD           | 1,370.000  |   |            |   |             |
| 44000500    | COMB CURB GUTTER REM | FOOT            | 12,001.000 |   |            |   |             |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT  
 NUMBER - 64987

State Job # - C-92-162-10  
 PPS NBR - 2-02430-0100  
 County Name - WINNEBAGO - -  
 Code - 201 - -  
 District - 2 - -  
 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

| Item Number | Pay Item Description  | Unit of Measure | Quantity   | x | Unit Price | = | Total Price |
|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| 44003100    | MEDIAN REMOVAL        | SQ FT           | 10,151.000 |   |            |   |             |
| 44004000    | PAVED DITCH REMOVAL   | FOOT            | 523.000    |   |            |   |             |
| 44004250    | PAVED SHLD REMOVAL    | SQ YD           | 6,314.000  |   |            |   |             |
| 48203021    | HMA SHOULDERS 6       | SQ YD           | 115.000    |   |            |   |             |
| 48300410    | PCC SHOULDERS 9 1/2   | SQ YD           | 3,594.000  |   |            |   |             |
| 50100300    | REM EXIST STRUCT N1   | EACH            | 1.000      |   |            |   |             |
| 50100400    | REM EXIST STRUCT N2   | EACH            | 1.000      |   |            |   |             |
| 50102400    | CONC REM              | CU YD           | 67.300     |   |            |   |             |
| 50104400    | CONC HDWL REM         | EACH            | 2.000      |   |            |   |             |
| 50105220    | PIPE CULVERT REMOV    | FOOT            | 3,710.000  |   |            |   |             |
| 50200100    | STRUCTURE EXCAVATION  | CU YD           | 1,988.000  |   |            |   |             |
| 50800105    | REINFORCEMENT BARS    | POUND           | 65,360.000 |   |            |   |             |
| 50800205    | REINF BARS, EPOXY CTD | POUND           | 440.000    |   |            |   |             |
| 51500100    | NAME PLATES           | EACH            | 2.000      |   |            |   |             |
| 54002020    | EXPAN BOLTS 3/4       | EACH            | 90.000     |   |            |   |             |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT  
 NUMBER -

64987

State Job # - C-92-162-10  
 PPS NBR - 2-02430-0100  
 County Name - WINNEBAGO - -  
 Code - 201 - -  
 District - 2 - -  
 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

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|-------------|----------------------|-----------------|-----------|---|------------|---|-------------|
| 54003000    | CONC BOX CUL         | CU YD           | 368.300   |   |            |   |             |
| 54011106    | PCBC 11X6            | FOOT            | 1,060.000 |   |            |   |             |
| 54213657    | PRC FLAR END SEC 12  | EACH            | 13.000    |   |            |   |             |
| 54213660    | PRC FLAR END SEC 15  | EACH            | 5.000     |   |            |   |             |
| 54213663    | PRC FLAR END SEC 18  | EACH            | 3.000     |   |            |   |             |
| 54213669    | PRC FLAR END SEC 24  | EACH            | 3.000     |   |            |   |             |
| 54213675    | PRC FLAR END SEC 30  | EACH            | 1.000     |   |            |   |             |
| 550A0050    | STORM SEW CL A 1 12  | FOOT            | 1,950.000 |   |            |   |             |
| 550A0070    | STORM SEW CL A 1 15  | FOOT            | 914.000   |   |            |   |             |
| 550A0090    | STORM SEW CL A 1 18  | FOOT            | 198.000   |   |            |   |             |
| 550A0110    | STORM SEW CL A 1 21  | FOOT            | 331.000   |   |            |   |             |
| 550A0120    | STORM SEW CL A 1 24  | FOOT            | 565.000   |   |            |   |             |
| 550A0140    | STORM SEW CL A 1 30  | FOOT            | 278.000   |   |            |   |             |
| 550A0160    | STORM SEW CL A 1 36  | FOOT            | 25.000    |   |            |   |             |
| 550A0340    | STORM SEW CL A 2 12  | FOOT            | 599.000   |   |            |   |             |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
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 Code - 201 - -  
 District - 2 - -  
 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

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|-------------|------------------------|-----------------|----------|---|------------|---|-------------|
| 550A0360    | STORM SEW CL A 2 15    | FOOT            | 157.000  |   |            |   |             |
| 550A0380    | STORM SEW CL A 2 18    | FOOT            | 125.000  |   |            |   |             |
| 550A0400    | STORM SEW CL A 2 21    | FOOT            | 700.000  |   |            |   |             |
| 550A0410    | STORM SEW CL A 2 24    | FOOT            | 162.000  |   |            |   |             |
| 550A0430    | STORM SEW CL A 2 30    | FOOT            | 118.000  |   |            |   |             |
| 550A0450    | STORM SEW CL A 2 36    | FOOT            | 117.000  |   |            |   |             |
| 550A0480    | STORM SEW CL A 2 48    | FOOT            | 798.000  |   |            |   |             |
| 56100700    | WATER MAIN 8           | FOOT            | 125.000  |   |            |   |             |
| 56105000    | WATER VALVES 8         | EACH            | 1.000    |   |            |   |             |
| 56400100    | FIRE HYDNPTS TO BE MVD | EACH            | 2.000    |   |            |   |             |
| 56400500    | FIRE HYDNPTS TO BE REM | EACH            | 2.000    |   |            |   |             |
| 56400810    | FIRE HYDRANT EXTEN     | FOOT            | 20.000   |   |            |   |             |
| 56400820    | FIRE HYD W/AUX V & VB  | EACH            | 2.000    |   |            |   |             |
| 56500600    | DOM WAT SER BOX ADJ    | EACH            | 2.000    |   |            |   |             |
| 56500700    | DOM WAT SER BOX REM    | EACH            | 3.000    |   |            |   |             |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
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 County Name - WINNEBAGO - -  
 Code - 201 - -  
 District - 2 - -  
 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

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|-------------|----------------------|-----------------|----------|---|------------|---|-------------|
| 60218400    | MAN TA 4 DIA T1F CL  | EACH            | 4.000    |   |            |   |             |
| 60219300    | MAN TA 4 DIA T11F&G  | EACH            | 3.000    |   |            |   |             |
| 60221700    | MAN TA 5 DIA T8G     | EACH            | 1.000    |   |            |   |             |
| 60223700    | MAN TA 6 DIA T1F OL  | EACH            | 1.000    |   |            |   |             |
| 60224446    | MAN TA 7 DIA T1F CL  | EACH            | 1.000    |   |            |   |             |
| 60224449    | MAN TA 7 DIA T24F&G  | EACH            | 1.000    |   |            |   |             |
| 60236200    | INLETS TA T8G        | EACH            | 3.000    |   |            |   |             |
| 60236800    | INLETS TA T11F&G     | EACH            | 1.000    |   |            |   |             |
| 60240215    | INLETS TB T1F CL     | EACH            | 1.000    |   |            |   |             |
| 60240310    | INLETS TB T11F&G     | EACH            | 8.000    |   |            |   |             |
| 60255500    | MAN ADJUST           | EACH            | 7.000    |   |            |   |             |
| 60260100    | INLETS ADJUST        | EACH            | 6.000    |   |            |   |             |
| 60265700    | VV ADJUST            | EACH            | 2.000    |   |            |   |             |
| 60266100    | VV RECONST           | EACH            | 3.000    |   |            |   |             |
| 60266600    | VALVE BOX ADJ        | EACH            | 14.000   |   |            |   |             |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
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 County Name - WINNEBAGO - -  
 Code - 201 - -  
 District - 2 - -  
 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

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|-------------|-----------------------|-----------------|------------|---|------------|---|-------------|
| 60500040    | REMOV MANHOLES        | EACH            | 7.000      |   |            |   |             |
| 60500060    | REMOV INLETS          | EACH            | 35.000     |   |            |   |             |
| 60500070    | REMOV MAN - MAIN FLOW | EACH            | 1.000      |   |            |   |             |
| 60600095    | CLASS SI CONC OUTLET  | CU YD           | 15.000     |   |            |   |             |
| 60603500    | COMB CC&G TB6.06      | FOOT            | 844.000    |   |            |   |             |
| 60603800    | COMB CC&G TB6.12      | FOOT            | 3,305.000  |   |            |   |             |
| 60604400    | COMB CC&G TB6.18      | FOOT            | 2,605.000  |   |            |   |             |
| 60605000    | COMB CC&G TB6.24      | FOOT            | 16,913.000 |   |            |   |             |
| 60608600    | COMB CC&G TM6.06      | FOOT            | 456.000    |   |            |   |             |
| 60610400    | COMB CC&G TM6.24      | FOOT            | 622.000    |   |            |   |             |
| 60618208    | HMA MEDIAN            | SQ FT           | 20,887.000 |   |            |   |             |
| 60618300    | CONC MEDIAN SURF 4    | SQ FT           | 465.000    |   |            |   |             |
| 60619200    | CONC MED TSB6.06      | SQ FT           | 378.000    |   |            |   |             |
| 60624600    | CORRUGATED MED        | SQ FT           | 1,629.000  |   |            |   |             |
| 63000001    | SPBGR TY A 6FT POSTS  | FOOT            | 475.000    |   |            |   |             |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
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 County Name - WINNEBAGO - -  
 Code - 201 - -  
 District - 2 - -  
 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

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|-------------|-----------------------|-----------------|-----------|---|------------|---|-------------|
| 63000025    | SPBGR ATTACH TO STR   | FOOT            | 112.500   |   |            |   |             |
| 63100045    | TRAF BAR TERM T2      | EACH            | 2.000     |   |            |   |             |
| 63100169    | TR BAR TRM T1 SPL FLR | EACH            | 2.000     |   |            |   |             |
| 63200310    | GUARDRAIL REMOV       | FOOT            | 1,218.000 |   |            |   |             |
| 63500105    | DELINEATORS           | EACH            | 8.000     |   |            |   |             |
| 66700305    | PERM SURV MKRS T2     | EACH            | 3.000     |   |            |   |             |
| 67000400    | ENGR FIELD OFFICE A   | CAL MO          | 24.000    |   |            |   |             |
| 67100100    | MOBILIZATION          | L SUM           | 1.000     |   |            |   |             |
| 70100320    | TRAF CONT-PROT 701422 | L SUM           | 1.000     |   |            |   |             |
| 70102625    | TR CONT & PROT 701606 | L SUM           | 1.000     |   |            |   |             |
| 70102635    | TR CONT & PROT 701701 | L SUM           | 1.000     |   |            |   |             |
| 70103815    | TR CONT SURVEILLANCE  | CAL DA          | 128.000   |   |            |   |             |
| 70106800    | CHANGEABLE MESSAGE SN | CAL MO          | 84.000    |   |            |   |             |
| 70300100    | SHORT TERM PAVT MKING | FOOT            | 2,000.000 |   |            |   |             |
| 70300210    | TEMP PVT MK LTR & SYM | SQ FT           | 6,057.000 |   |            |   |             |

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 Code - 201 - -  
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 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

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|-------------|-----------------------|-----------------|-------------|---|------------|---|-------------|
| 70300220    | TEMP PVT MK LINE 4    | FOOT            | 207,627.000 |   |            |   |             |
| 70300250    | TEMP PVT MK LINE 8    | FOOT            | 23,572.000  |   |            |   |             |
| 70300280    | TEMP PVT MK LINE 24   | FOOT            | 3,801.000   |   |            |   |             |
| 70301000    | WORK ZONE PAVT MK REM | SQ FT           | 45,940.000  |   |            |   |             |
| 70400100    | TEMP CONC BARRIER     | FOOT            | 3,075.000   |   |            |   |             |
| 70400200    | REL TEMP CONC BARRIER | FOOT            | 8,712.500   |   |            |   |             |
| 72000100    | SIGN PANEL T1         | SQ FT           | 91.000      |   |            |   |             |
| 78008200    | POLYUREA PM T1 LTR-SY | SQ FT           | 2,813.200   |   |            |   |             |
| 78008210    | POLYUREA PM T1 LN 4   | FOOT            | 26,060.000  |   |            |   |             |
| 78008230    | POLYUREA PM T1 LN 6   | FOOT            | 3,212.000   |   |            |   |             |
| 78008240    | POLYUREA PM T1 LN 8   | FOOT            | 17,495.000  |   |            |   |             |
| 78008250    | POLYUREA PM T1 LN 12  | FOOT            | 2,551.000   |   |            |   |             |
| 78008270    | POLYUREA PM T1 LN 24  | FOOT            | 1,269.000   |   |            |   |             |
| 78100100    | RAISED REFL PAVT MKR  | EACH            | 793.000     |   |            |   |             |
| 78200410    | GUARDRAIL MKR TYPE A  | EACH            | 26.000      |   |            |   |             |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
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 Section Number - 129K-1

Project Number  
 NHF-0303/053/

Route  
 FAP 303

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| 78201000    | TERMINAL MARKER - DA  | EACH            | 2.000     |   |            |   |             |
| 78300100    | PAVT MARKING REMOVAL  | SQ FT           | 3,955.000 |   |            |   |             |
| 81012500    | CON T 1 1/2 PVC       | FOOT            | 96.000    |   |            |   |             |
| 81012700    | CON T 2 1/2 PVC       | FOOT            | 1,517.000 |   |            |   |             |
| 81013000    | CON T 4 PVC           | FOOT            | 406.000   |   |            |   |             |
| 81018600    | CON P 2 1/2 GALVS     | FOOT            | 398.000   |   |            |   |             |
| 81018900    | CON P 4 GALVS         | FOOT            | 2,082.000 |   |            |   |             |
| 81400100    | HANDHOLE              | EACH            | 32.000    |   |            |   |             |
| 81400300    | DBL HANDHOLE          | EACH            | 4.000     |   |            |   |             |
| 81702110    | EC C XLP USE 1C 10    | FOOT            | 7,936.000 |   |            |   |             |
| 81900200    | TR & BKFIL F ELECT WK | FOOT            | 2,019.000 |   |            |   |             |
| 82102250    | LUM SV HOR MT 250W    | EACH            | 12.000    |   |            |   |             |
| 82102400    | LUM SV HOR MT 400W    | EACH            | 4.000     |   |            |   |             |
| 85700300    | FAC T5 CAB            | EACH            | 4.000     |   |            |   |             |
| 86000100    | MASTER CONTROLLER     | EACH            | 1.000     |   |            |   |             |

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 Section Number - 129K-1

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 NHF-0303/053/

Route  
 FAP 303

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| 87100110    | FO CAB C 62.5/125 6F | FOOT            | 1,891.000  |   |            |   |             |
| 87301225    | ELCBL C SIGNAL 14 3C | FOOT            | 4,455.000  |   |            |   |             |
| 87301245    | ELCBL C SIGNAL 14 5C | FOOT            | 21,263.000 |   |            |   |             |
| 87301255    | ELCBL C SIGNAL 14 7C | FOOT            | 2,402.000  |   |            |   |             |
| 87301295    | ELCBL C SIGNAL 20 3C | FOOT            | 4,455.000  |   |            |   |             |
| 87301815    | ELCBL C SERV 6 3C    | FOOT            | 96.000     |   |            |   |             |
| 87301900    | ELCBL C EGRDC 6 1C   | FOOT            | 4,518.000  |   |            |   |             |
| 87800100    | CONC FDN TY A        | FOOT            | 36.000     |   |            |   |             |
| 87800200    | CONC FDN TY D        | FOOT            | 12.000     |   |            |   |             |
| 87800400    | CONC FDN TY E 30D    | FOOT            | 10.000     |   |            |   |             |
| 87800415    | CONC FDN TY E 36D    | FOOT            | 184.000    |   |            |   |             |
| 87800420    | CONC FDN TY E 42D    | FOOT            | 67.000     |   |            |   |             |
| 88040070    | SH P LED 1F 3S BM    | EACH            | 35.000     |   |            |   |             |
| 88040090    | SH P LED 1F 3S MAM   | EACH            | 51.000     |   |            |   |             |
| 88040120    | SH P LED 1F 4S MAM   | EACH            | 2.000      |   |            |   |             |

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 NHF-0303/053/

Route  
 FAP 303

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| 88040150    | SH P LED 1F 5S BM     | EACH            | 2.000    |   |            |   |             |
| 88040160    | SH P LED 1F 5S MAM    | EACH            | 4.000    |   |            |   |             |
| 88200100    | TS BACKPLATE          | EACH            | 57.000   |   |            |   |             |
| 89000100    | TEMP TR SIG INSTALL   | EACH            | 4.000    |   |            |   |             |
| 89000105    | TEMP TR SIG INSTAL SP | EACH            | 1.000    |   |            |   |             |
| 89501300    | RELOC EX MAA & POLE   | EACH            | 1.000    |   |            |   |             |
| 89502375    | REMOV EX TS EQUIP     | EACH            | 4.000    |   |            |   |             |
| 89502380    | REMOV EX HANDHOLE     | EACH            | 23.000   |   |            |   |             |
| 89502382    | REMOV EX DBL HANDHOLE | EACH            | 3.000    |   |            |   |             |
| 89502385    | REMOV EX CONC FDN     | EACH            | 24.000   |   |            |   |             |



## RETURN WITH BID

### **STATE REQUIRED ETHICAL STANDARDS GOVERNING CONTRACT PROCUREMENT: ASSURANCES, CERTIFICATIONS AND DISCLOSURES**

#### **I. GENERAL**

**A.** Article 50 of the Illinois Procurement Code establishes the duty of all State chief procurement officers, State purchasing officers, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.

**B.** In order to comply with the provisions of Article 50 and to carry out the duty established therein, all bidders are to adhere to ethical standards established for the procurement process, and to make such assurances, disclosures and certifications required by law. Except as otherwise required in subsection III, paragraphs J-M, by execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances have been read and understood, that each certification is made and understood, and that each disclosure requirement has been understood and completed.

**C.** In addition to all other remedies provided by law, failure to comply with any assurance, failure to make any disclosure or the making of a false certification shall be grounds for the chief procurement officer to void the contract, or subcontract, and may result in the suspension or debarment of the bidder or subcontractor.

#### **II. ASSURANCES**

The assurances hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

##### **A. Conflicts of Interest**

1. The Illinois Procurement Code provides in pertinent part:

Section 50-13. Conflicts of Interest.

(a) Prohibition. It is unlawful for any person holding an elective office in this State, holding a seat in the General Assembly, or appointed to or employed in any of the offices or agencies of state government and who receives compensation for such employment in excess of 60% of the salary of the Governor of the State of Illinois, or who is an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority, or who is the spouse or minor child of any such person to have or acquire any contract, or any direct pecuniary interest in any contract therein, whether for stationery, printing, paper, or any services, materials, or supplies, that will be wholly or partially satisfied by the payment of funds appropriated by the General Assembly of the State of Illinois or in any contract of the Capital Development Board or the Illinois Toll Highway authority.

(b) Interests. It is unlawful for any firm, partnership, association or corporation, in which any person listed in subsection (a) is entitled to receive (i) more than 7 1/2% of the total distributable income or (ii) an amount in excess of the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(c) Combined interests. It is unlawful for any firm, partnership, association, or corporation, in which any person listed in subsection (a) together with his or her spouse or minor children is entitled to receive (i) more than 15%, in the aggregate, of the total distributable income or (ii) an amount in excess of 2 times the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(d) Securities. Nothing in this Section invalidates the provisions of any bond or other security previously offered or to be offered for sale or sold by or for the State of Illinois.

(e) Prior interests. This Section does not affect the validity of any contract made between the State and an officer or employee of the State or member of the General Assembly, his or her spouse, minor child or any combination of those persons if that contract was in existence before his or her election or employment as an officer, member, or employee. The contract is voidable, however, if it cannot be completed within 365 days after the officer, member, or employee takes office or is employed.

The current salary of the Governor is \$177,412.00. Sixty percent of the salary is \$106,447.20.

## RETURN WITH BID

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-13, or that an effective exemption has been issued by the Board of Ethics to any individual subject to the Section 50-13 prohibitions pursuant to the provisions of Section 50-20 of the Code and Executive Order Number 3 (1998). Information concerning the exemption process is available from the Department upon request.

### **B. Negotiations**

1. The Illinois Procurement Code provides in pertinent part:

Section 50-15. Negotiations.

(a) It is unlawful for any person employed in or on a continual contractual relationship with any of the offices or agencies of State government to participate in contract negotiations on behalf of that office or agency with any firm, partnership, association, or corporation with whom that person has a contract for future employment or is negotiating concerning possible future employment.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-15, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

### **C. Inducements**

1. The Illinois Procurement Code provides:

Section 50-25. Inducement. Any person who offers or pays any money or other valuable thing to any person to induce him or her not to bid for a State contract or as recompense for not having bid on a State contract is guilty of a Class 4 felony. Any person who accepts any money or other valuable thing for not bidding for a State contract or who withholds a bid in consideration of the promise for the payment of money or other valuable thing is guilty of a Class 4 felony.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-25, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

### **D. Revolving Door Prohibition**

1. The Illinois Procurement Code provides:

Section 50-30. Revolving door prohibition. Chief procurement officers, State purchasing officers, procurement compliance monitors, their designees whose principal duties are directly related to State procurement, and executive officers confirmed by the Senate are expressly prohibited for a period of 2 years after terminating an affected position from engaging in any procurement activity relating to the State agency most recently employing them in an affected position for a period of at least 6 months. The prohibition includes, but is not limited to: lobbying the procurement process; specifying; bidding; proposing bid, proposal, or contract documents; on their own behalf or on behalf of any firm, partnership, association, or corporation. This Section applies only to persons who terminate an affected position on or after January 15, 1999.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-30, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

### **E. Reporting Anticompetitive Practices**

1. The Illinois Procurement Code provides:

Section 50-40. Reporting anticompetitive practices. When, for any reason, any vendor, bidder, contractor, chief procurement officer, State purchasing officer, designee, elected official, or State employee suspects collusion or other anticompetitive practice among any bidders, offerors, contractors, proposers, or employees of the State, a notice of the relevant facts shall be transmitted to the Attorney General and the chief procurement officer.

2. The bidder assures the Department that it has not failed to report any relevant facts concerning the practices addressed in Section 50-40 which may involve the contract for which the bid is submitted.

### **F. Confidentiality**

1. The Illinois Procurement Code provides:

Section 50-45. Confidentiality. Any chief procurement officer, State purchasing officer, designee, or executive officer who willfully uses or allows the use of specifications, competitive bid documents, proprietary competitive information, proposals, contracts, or selection information to compromise the fairness or integrity of the procurement, bidding, or contract process shall be subject to immediate dismissal, regardless of the Personnel code, any contract, or any collective bargaining agreement, and may in addition be subject to criminal prosecution.

2. The bidder assures the Department that it has no knowledge of any fact relevant to the practices addressed in Section 50-45 which may involve the contract for which the bid is submitted.

## RETURN WITH BID

### **G. Insider Information**

1. The Illinois Procurement Act provides:

Section 50-50. Insider information. It is unlawful for any current or former elected or appointed State official or State employee to knowingly use confidential information available only by virtue of that office or employment for actual or anticipated gain for themselves or another person.

2. The bidder assures the Department that it has no knowledge of any facts relevant to the practices addressed in Section 50-50 which may involve the contract for which the bid is submitted.

### **III. CERTIFICATIONS**

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. Section 50-2 of the Illinois Procurement Code provides that every person that has entered into a multi-year contract and every subcontractor with a multi-year subcontract shall certify, by July 1 of each fiscal year covered by the contract after the initial fiscal year, to the responsible chief procurement officer whether it continues to satisfy the requirements of Article 50 pertaining to the eligibility for a contract award. If a contractor or subcontractor is not able to truthfully certify that it continues to meet all requirements, it shall provide with its certification a detailed explanation of the circumstances leading to the change in certification status. A contractor or subcontractor that makes a false statement material to any given certification required under Article 50 is, in addition to any other penalties or consequences prescribed by law, subject to liability under the Whistleblower Reward and Protection Act for submission of a false claim.

#### **A. Bribery**

1. The Illinois Procurement Code provides:

Section 50-5. Bribery.

- (a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:

- (1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or

- (2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.

- (b) Businesses. No business shall be barred from contracting with any unit of State or local government, or subcontracting under such a contract, as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:

- (1) the business has been finally adjudicated not guilty; or

- (2) the business demonstrates to the governmental entity with which it seeks to contract, or which is signatory to the contract which the subcontract relates, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.

- (c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.

- (d) Certification. Every bid submitted to and contract executed by the State, and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

2. The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50.5.

#### **B. Felons**

1. The Illinois Procurement Code provides:

Section 50-10. Felons. Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any State agency, or enter into a subcontract, from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

3. Certification. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the bidder or contractor or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer may declare the related contract void if any of the certifications required by this Section are false.

## RETURN WITH BID

### **C. Debt Delinquency**

1. The Illinois Procurement Code provides:

Section 50-11 and 50-12. Debt Delinquency.

The contractor or bidder or subcontractor, respectively, certifies that it, or any affiliate, is not barred from being awarded a contract or subcontract under the Procurement Code. Section 50-11 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, if it, or any affiliate, has failed to collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The bidder or contractor or subcontractor, respectively, further acknowledges that the chief procurement officer may declare the related contract void if this certification is false or if the bidder, contractor, or subcontractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

### **D. Prohibited Bidders, Contractors and Subcontractors**

1. The Illinois Procurement Code provides:

Section 50-10.5 and 50-60(c). Prohibited bidders, contractors and subcontractors.

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 or if in violation of Subsection (c) for a period of five years from the date of conviction. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the bidder, contractor, or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer shall declare the related contract void if any of the certifications completed pursuant to this Section are false.

### **E. Section 42 of the Environmental Protection Act**

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-12 that the bidder, contractor, or subcontractor, is not barred from being awarded a contract or entering into a subcontract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency, or entering into any subcontract, that is subject to the Procurement Code by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The bidder or contractor or subcontractor, respectively, acknowledges that the chief procurement officer may declare the contract void if this certification is false.

### **F. Educational Loan**

1. Section 3 of the Educational Loan Default Act provides:

§ 3. No State agency shall contract with an individual for goods or services if that individual is in default, as defined in Section 2 of this Act, on an educational loan. Any contract used by any State agency shall include a statement certifying that the individual is not in default on an educational loan as provided in this Section.

2. The bidder, if an individual as opposed to a corporation, partnership or other form of business organization, certifies that the bidder is not in default on an educational loan as provided in Section 3 of the Act.

### **G. Bid-Rigging/Bid Rotating**

1. Section 33E-11 of the Criminal Code of 1961 provides:

§ 33E-11. (a) Every bid submitted to and public contract executed pursuant to such bid by the State or a unit of local government shall contain a certification by the prime contractor that the prime contractor is not barred from contracting with any unit of State or local government as a result of a violation of either Section 33E-3 or 33E-4 of this Article. The State and units of local government shall provide the appropriate forms for such certification.

- (b) A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

## RETURN WITH BID

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

2. The bidder certifies that it is not barred from contracting with the Department by reason of a violation of either Section 33E-3 or Section 33E-4.

### **H. International Anti-Boycott**

1. Section 5 of the International Anti-Boycott Certification Act provides:

§ 5. State contracts. Every contract entered into by the State of Illinois for the manufacture, furnishing, or purchasing of supplies, material, or equipment or for the furnishing of work, labor, or services, in an amount exceeding the threshold for small purchases according to the purchasing laws of this State or \$10,000.00, whichever is less, shall contain certification, as a material condition of the contract, by which the contractor agrees that neither the contractor nor any substantially-owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act.

2. The bidder makes the certification set forth in Section 5 of the Act.

### **I. Drug Free Workplace**

1. The Illinois "Drug Free Workplace Act" applies to this contract and it is necessary to comply with the provisions of the "Act" if the contractor is a corporation, partnership, or other entity (including a sole proprietorship) which has 25 or more employees.

2. The bidder certifies that if awarded a contract in excess of \$5,000 it will provide a drug free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance, including cannabis, is prohibited in the contractor's workplace; specifying the actions that will be taken against employees for violations of such prohibition; and notifying the employee that, as a condition of employment on such contract, the employee shall abide by the terms of the statement, and notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.

(b) Establishing a drug free awareness program to inform employees about the dangers of drug abuse in the workplace; the contractor's policy of maintaining a drug free workplace; any available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug violations.

(c) Providing a copy of the statement required by subparagraph (1) to each employee engaged in the performance of the contract and to post the statement in a prominent place in the workplace.

(d) Notifying the Department within ten (10) days after receiving notice from an employee or otherwise receiving actual notice of the conviction of an employee for a violation of any criminal drug statute occurring in the workplace.

(e) Imposing or requiring, within 30 days after receiving notice from an employee of a conviction or actual notice of such a conviction, an appropriate personnel action, up to and including termination, or the satisfactory participation in a drug abuse assistance or rehabilitation program approved by a federal, state or local health, law enforcement or other appropriate agency.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that a trained referral team is in place.

(g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the actions and efforts stated in this certification.

RETURN WITH BID

J. Disclosure of Business Operations in Iran

Section 50-36 of the Illinois Procurement Code, 30ILCS 500/50-36 provides that each bid, offer, or proposal submitted for a State contract shall include a disclosure of whether or not the Company acting as the bidder, offeror, or proposing entity, or any of its corporate parents or subsidiaries, within the 24 months before submission of the bid, offer, or proposal had business operations that involved contracts with or provision of supplies or services to the Government of Iran, companies in which the Government of Iran has any direct or indirect equity share, consortiums or projects commissioned by the Government of Iran, or companies involved in consortiums or projects commissioned by the Government of Iran and either of the following conditions apply:

- (1) More than 10% of the Company's revenues produced in or assets located in Iran involve oil-related activities or mineral-extraction activities; less than 75% of the Company's revenues produced in or assets located in Iran involve contracts with or provision of oil-related or mineral-extraction products or services to the Government of Iran or a project or consortium created exclusively by that government; and the Company has failed to take substantial action.
(2) The Company has, on or after August 5, 1996, made an investment of \$20 million or more, or any combination of investments of at least \$10 million each that in the aggregate equals or exceeds \$20 million in any 12-month period, which directly or significantly contributes to the enhancement of Iran's ability to develop petroleum resources of Iran.

The terms "Business operations", "Company", "Mineral-extraction activities", "Oil-related activities", "Petroleum resources", and "Substantial action" are all defined in the Code.

Failure to make the disclosure required by the Code shall cause the bid, offer or proposal to be considered not responsive. The disclosure will be considered when evaluating the bid, offer, or proposal or awarding the contract. The name of each Company disclosed as doing business or having done business in Iran will be provided to the State Comptroller.

Check the appropriate statement:

/\_\_\_/ Company has no business operations in Iran to disclose.

/\_\_\_/ Company has business operations in Iran as disclosed the attached document.

K. Apprenticeship and Training Certification (Does not apply to federal aid projects)

In accordance with the provisions of Section 30-22 (6) of the Illinois Procurement Code, the bidder certifies that it is a participant, either as an individual or as part of a group program, in the approved apprenticeship and training programs applicable to each type of work or craft that the bidder will perform with its own forces. The bidder further certifies for work that will be performed by subcontract that each of its subcontractors submitted for approval either (a) is, at the time of such bid, participating in an approved, applicable apprenticeship and training program; or (b) will, prior to commencement of performance of work pursuant to this contract, begin participation in an approved apprenticeship and training program applicable to the work of the subcontract. The Department, at any time before or after award, may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. Applicable apprenticeship and training programs are those that have been approved and registered with the United States Department of Labor. The bidder shall list in the space below, the official name of the program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's forces. Types of work or craft work that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category that does not have an applicable apprenticeship or training program. The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project as reported on the Construction Employee Workforce Projection (Form BC-1256) and returned with the bid is accounted for and listed.

NA-FEDERAL

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. In order to fulfill this requirement, it shall not be necessary that an applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract.

**RETURN WITH BID**

**L. Political Contributions and Registration with the State Board of Elections**

Sections 20-160 and 50-37 of the Illinois Procurement Code regulate political contributions from business entities and any affiliated entities or affiliated persons bidding on or contracting with the state. Generally under Section 50-37, any business entity, and any affiliated entity or affiliated person of the business entity, whose current year contracts with all state agencies exceed an awarded value of \$50,000, are prohibited from making any contributions to any political committees established to promote the candidacy of the officeholder responsible for the awarding of the contracts or any other declared candidate for that office for the duration of the term of office of the incumbent officeholder or a period 2 years after the termination of the contract, whichever is longer. Any business entity and affiliated entities or affiliated persons whose state contracts in the current year do not exceed an awarded value of \$50,000, but whose aggregate pending bids and proposals on state contracts exceed \$50,000, either alone or in combination with contracts not exceeding \$50,000, are prohibited from making any political contributions to any political committee established to promote the candidacy of the officeholder responsible for awarding the pending contract during the period beginning on the date the invitation for bids or request for proposals is issued and ending on the day after the date of award or selection if the entity was not awarded or selected. Section 20-160 requires certification of registration of affected business entities in accordance with procedures found in Section 9-35 of The Election Code.

By submission of a bid, the contractor business entity acknowledges and agrees that it has read and understands Sections 20-160 and 50-37 of the Illinois Procurement Code, and that it makes the following certification:

**The undersigned business entity certifies that it has registered as a business with the State Board of Elections and acknowledges a continuing duty to update the registration in accordance with the above referenced statutes. A copy of the certificate of registration shall be submitted with the bid. The bidder is cautioned that the Department will not award a contract without submission of the certificate of registration.**

These requirements and compliance with the above referenced statutory sections are a material part of the contract, and any breach thereof shall be cause to void the contract under Section 50-60 of the Illinois Procurement Code. This provision does not apply to Federal-aid contracts.

**M. Lobbyist Disclosure**

Section 50-38 of the Illinois Procurement Code requires that any bidder or offeror on a State contract that hires a person required to register under the Lobbyist Registration Act to assist in obtaining a contract shall:

- (i) Disclose all costs, fees, compensation, reimbursements, and other remunerations paid or to be paid to the lobbyist related to the contract,
- (ii) Not bill or otherwise cause the State of Illinois to pay for any of the lobbyist's costs, fees, compensation, reimbursements, or other remuneration, and
- (iii) Sign a verification certifying that none of the lobbyist's costs, fees, compensation, reimbursements, or other remuneration were billed to the State.

This information, along with all supporting documents, shall be filed with the agency awarding the contract and with the Secretary of State. The chief procurement officer shall post this information, together with the contract award notice, in the online Procurement Bulletin.

Pursuant to Subsection (c) of this Section, no person or entity shall retain a person or entity to attempt to influence the outcome of a procurement decision made under the Procurement Code for compensation contingent in whole or in part upon the decision or procurement. Any person who violates this subsection is guilty of a business offense and shall be fined not more than \$10,000.

Bidder acknowledges that it is required to disclose the hiring of any person required to register pursuant to the Illinois Lobbyist Registration Act (25 ILCS 170) in connection with this contract.

Bidder has not hired any person required to register pursuant to the Illinois Lobbyist Registration Act in connection with this contract.

Or

Bidder has hired the following persons required to register pursuant to the Illinois Lobbyist Registration Act in connection with the contract:

Name and address of person: \_\_\_\_\_  
All costs, fees, compensation, reimbursements and other remuneration paid to said person: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## RETURN WITH BID

### IV. DISCLOSURES

- A. The disclosures hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The bidder further certifies that the Department has received the disclosure forms for each bid.

The chief procurement officer may void the bid, contract, or subcontract, respectively, if it is later determined that the bidder or subcontractor rendered a false or erroneous disclosure. A contractor or subcontractor may be suspended or debarred for violations of the Procurement Code. Furthermore, the chief procurement officer may void the contract and the surety providing the performance bond shall be responsible for completion of the contract.

### B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Illinois Procurement Code provides that all bids of more than \$25,000 shall be accompanied by disclosure of the financial interests of the bidder. This disclosed information for the successful bidder, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act, filed with the Procurement Policy Board, and shall be incorporated as a material term of the contract. Furthermore, pursuant to Section 5-5, the Procurement Policy Board may review a proposal, bid, or contract and issue a recommendation to void a contract or reject a proposal or bid based on any violation of the Procurement Code or the existence of a conflict of interest as provided in subsections (b) and (d) of Section 50-35.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the bidding entity or its parent entity, whichever is less, unless the contractor or bidder is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each person making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

**The current annual salary of the Governor is \$177,412.00.**

In addition, all disclosures shall indicate any other current or pending contracts, proposals, leases, or other ongoing procurement relationships the bidding entity has with any other unit of state government and shall clearly identify the unit and the contract, proposal, lease, or other relationship.

2. Disclosure Forms. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. Subject individuals should be covered each by one form. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies. **The forms must be included with each bid.**

### C. Disclosure Form Instructions

#### Form A Instructions for Financial Information & Potential Conflicts of Interest

If the bidder is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. If a bidder is not subject to Federal 10K reporting, the bidder must determine if any individuals are required by law to complete a financial disclosure form. To do this, the bidder should answer each of the following questions. A "YES" answer indicates Form A must be completed. If the answer to each of the following questions is "NO", then the NOT APPLICABLE STATEMENT on Form A must be signed and dated by a person that is authorized to execute contracts for the bidding company. Note: These questions are for assistance only and are not required to be completed.

1. Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES \_\_\_ NO \_\_\_
2. Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than 60% of the annual salary of the Governor? YES \_\_\_ NO
3. Does anyone in your organization receive more than 60% of the annual salary of the Governor of the bidding entity's or parent entity's distributive income? YES \_\_\_ NO \_\_\_
4. Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor? YES \_\_\_ NO \_\_\_

(Note: Only one set of forms needs to be completed per person per bid even if a specific individual would require a yes answer to more than one question.)

A "YES" answer to any of these questions requires the completion of Form A. The bidder must determine each individual in the bidding entity or the bidding entity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by a person that is authorized to execute contracts for your organization. **Photocopied or stamped signatures are not acceptable.** The person signing can be, but does not have to be, the person for which the form is being completed. The bidder is responsible for the accuracy of any information provided.

If the answer to each of the above questions is "NO", then the NOT APPLICABLE STATEMENT of Form A must be signed and dated by a person that is authorized to execute contracts for your company.

## RETURN WITH BID

### **Form B: Instructions for Identifying Other Contracts & Procurement Related Information**

Disclosure Form B must be completed for each bid submitted by the bidding entity. *Note: Checking the NOT APPLICABLE STATEMENT on Form A does not allow the bidder to ignore Form B. Form B must be completed, checked, and dated or the bidder may be considered nonresponsive and the bid will not be accepted.*

The Bidder shall identify, by checking Yes or No on Form B, whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the bidder only needs to complete the check box on the bottom of Form B. If "Yes" is checked, the bidder must do one of the following:

Option I: If the bidder did not submit an Affidavit of Availability to obtain authorization to bid, the bidder must list all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an attached sheet(s). Do not include IDOT contracts. Contracts with cities, counties, villages, etc. are not considered State of Illinois agency contracts and are not to be included. Contracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital Development Board must be included. Bidders who submit Affidavits of Availability are suggested to use Option II.

Option II: If the bidder is required and has submitted an Affidavit of Availability in order to obtain authorization to bid, the bidder may write or type "See Affidavit of Availability" which indicates that the Affidavit of Availability is incorporated by reference and includes all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. For any contracts that are not covered by the Affidavit of Availability, the bidder must identify them on Form B or on an attached sheet(s). These might be such things as leases.

RETURN WITH BID

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form A Financial Information & Potential Conflicts of Interest Disclosure

Contractor Name, Legal Address, City, State, Zip, Telephone Number, Email Address, Fax Number (if available)

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Code (30 ILCS 500). Vendors desiring to enter into a contract with the State of Illinois must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form. This information shall become part of the publicly available contract file. This Form A must be completed for bids in excess of \$25,000, and for all open-ended contracts. A publicly traded company may submit a 10K disclosure (or equivalent if applicable) in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.

The current annual salary of the Governor is \$177,412.00.

DISCLOSURE OF FINANCIAL INFORMATION

- 1. Disclosure of Financial Information. The individual named below has an interest in the BIDDER (or its parent) in terms of ownership or distributive income share in excess of 5%, or an interest which has a value of more than 60% of the annual salary of the Governor. (Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)

FOR INDIVIDUAL (type or print information) NAME: ADDRESS Type of ownership/distributable income share: stock sole proprietorship Partnership other: (explain on separate sheet): % or \$ value of ownership/distributable income share:

- 2. Disclosure of Potential Conflicts of Interest. Check "Yes" or "No" to indicate which, if any, of the following potential conflict of interest relationships apply. If the answer to any question is "Yes", please attach additional pages and describe.

(a) State employment, currently or in the previous 3 years, including contractual employment of services. Yes \_\_\_ No \_\_\_

If your answer is yes, please answer each of the following questions.

- 1. Are you currently an officer or employee of either the Capitol Development Board or the Illinois State Toll Highway Authority? Yes \_\_\_ No \_\_\_
2. Are you currently appointed to or employed by any agency of the State of Illinois? If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor provide the name the State agency for which you are employed and your annual salary.

**RETURN WITH BID**

3. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 100% of the annual salary of the Governor? Yes \_\_\_ No \_\_\_
4. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15% in aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor? Yes \_\_\_ No \_\_\_

---

(b) State employment of spouse, father, mother, son, or daughter, including contractual employment for services in the previous 2 years.

Yes \_\_\_ No \_\_\_

If your answer is yes, please answer each of the following questions.

1. Is your spouse or any minor children currently an officer or employee of the Capitol Development Board or the Illinois State Toll Highway Authority? Yes \_\_\_ No \_\_\_
2. Is your spouse or any minor children currently appointed to or employed by any agency of the State of Illinois? If your spouse or minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, provide the name of the spouse and/or minor children, the name of the State agency for which he/she is employed and his/her annual salary. \_\_\_\_\_
- 
3. If your spouse or any minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess 100% of the annual salary of the Governor? Yes \_\_\_ No \_\_\_
4. If your spouse or any minor children are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or any minor children entitled to receive (i) more than 15% in the aggregate of the total distributable income from your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor? Yes \_\_\_ No \_\_\_

---

(c) Elective status; the holding of elective office of the State of Illinois, the government of the United States, any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois currently or in the previous 3 years. Yes \_\_\_ No \_\_\_

---

(d) Relationship to anyone holding elective office currently or in the previous 2 years; spouse, father, mother, son, or daughter. Yes \_\_\_ No \_\_\_

---

(e) Appointive office; the holding of any appointive government office of the State of Illinois, the United State of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of the expenses incurred in the discharge of that office currently or in the previous 3 years. Yes \_\_\_ No \_\_\_

---

(f) Relationship to anyone holding appointive office currently or in the previous 2 years; spouse, father, mother, son, or daughter. Yes \_\_\_ No \_\_\_

---

(g) Employment, currently or in the previous 3 years, as or by any registered lobbyist of the State government. Yes \_\_\_ No \_\_\_

---

**RETURN WITH BID**

(h) Relationship to anyone who is or was a registered lobbyist in the previous 2 years; spouse, father, mother, son, or daughter. Yes \_\_\_ No \_\_\_

---

(i) Compensated employment, currently or in the previous 3 years, by any registered election or reelection committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes \_\_\_ No \_\_\_

---

(j) Relationship to anyone; spouse, father, mother, son, or daughter; who was a compensated employee in the last 2 years by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes \_\_\_ No \_\_\_

---

**3. Communication Disclosure.**

Disclose the name and address of each lobbyist and other agent of the bidder or offeror who is not identified in Section 2 of this form, who is has communicated, is communicating, or may communicate with any State officer or employee concerning the bid or offer. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the process and throughout the term of the contract. If no person is identified, enter "None" on the line below:

Name and address of person(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**RETURN WITH BID**

**4. Debarment Disclosure.** For each of the persons identified under Sections 2 and 3 of this form, disclose whether any of the following has occurred within the previous 10 years: debarment from contracting with any governmental entity; professional licensure discipline; bankruptcies; adverse civil judgments and administrative findings; and criminal felony convictions. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the procurement process and term of the contract. If no person is identified, enter "None" on the line below:

Name of person(s): \_\_\_\_\_

Nature of disclosure: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**APPLICABLE STATEMENT**

**This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page. Under penalty of perjury, I certify the contents of this disclosure to be true and accurate to the best of my knowledge.**

Completed by:  \_\_\_\_\_ Date \_\_\_\_\_  
Signature of Individual or Authorized Representative

**NOT APPLICABLE STATEMENT**

**Under penalty of perjury, I have determined that no individuals associated with this organization meet the criteria that would require the completion of this Form A.**

**This Disclosure Form A is submitted on behalf of the CONTRACTOR listed on the previous page.**

\_\_\_\_\_ Date \_\_\_\_\_  
Signature of Authorized Representative

The bidder has a continuing obligation to supplement these disclosures under Sec. 50-35 of the Procurement Code.

RETURN WITH BID

**ILLINOIS DEPARTMENT  
OF TRANSPORTATION**

**Form B  
Other Contracts &  
Procurement Related Information  
Disclosure**

|                  |               |                           |
|------------------|---------------|---------------------------|
| Contractor Name  |               |                           |
| Legal Address    |               |                           |
| City, State, Zip |               |                           |
| Telephone Number | Email Address | Fax Number (if available) |

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Act (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for bids in excess of \$25,000, and for all open-ended contracts.

**DISCLOSURE OF OTHER CONTRACTS AND PROCUREMENT RELATED INFORMATION**

**1. Identifying Other Contracts & Procurement Related Information.** The BIDDER shall identify whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency: Yes \_\_\_ No \_\_\_

If "No" is checked, the bidder only needs to complete the signature box on the bottom of this page.

**2. If "Yes" is checked.** Identify each such relationship by showing State of Illinois agency name and other descriptive information such as bid or project number (attach additional pages as necessary). SEE DISCLOSURE FORM INSTRUCTIONS:

**THE FOLLOWING STATEMENT MUST BE CHECKED**

|                          |  |       |
|--------------------------|--|-------|
| <input type="checkbox"/> | _____                                  | _____ |
|                          | Signature of Authorized Representative | Date  |

## **RETURN WITH BID**

### **SPECIAL NOTICE TO CONTRACTORS**

The following requirements of the Illinois Department of Human Rights' Rules and Regulations are applicable to bidders on all construction contracts advertised by the Illinois Department of Transportation:

#### **CONSTRUCTION EMPLOYEE UTILIZATION PROJECTION**

- (a) All bidders on construction contracts shall complete and submit, along with and as part of their bids, a Bidder's Employee Utilization Form (Form BC-1256) setting forth a projection and breakdown of the total workforce intended to be hired and/or allocated to such contract work by the bidder including a projection of minority and female employee utilization in all job classifications on the contract project.
- (b) The Department of Transportation shall review the Employee Utilization Form, and workforce projections contained therein, of the contract awardee to determine if such projections reflect an underutilization of minority persons and/or women in any job classification in accordance with the Equal Employment Opportunity Clause and Section 7.2 of the Illinois Department of Human Rights' Rules and Regulations for Public Contracts adopted as amended on September 17, 1980. If it is determined that the contract awardee's projections reflect an underutilization of minority persons and/or women in any job classification, it shall be advised in writing of the manner in which it is underutilizing and such awardee shall be considered to be in breach of the contract unless, prior to commencement of work on the contract project, it submits revised satisfactory projections or an acceptable written affirmative action plan to correct such underutilization including a specific timetable geared to the completion stages of the contract.
- (c) The Department of Transportation shall provide to the Department of Human Rights a copy of the contract awardee's Employee Utilization Form, a copy of any required written affirmative action plan, and any written correspondence related thereto. The Department of Human Rights may review and revise any action taken by the Department of Transportation with respect to these requirements.



**RETURN WITH BID**

**Contract No. 64987  
WINNEBAGO County  
Section 129K-1  
Project NHF-0303(053)  
Route FAP 303  
District 2 Construction Funds**

**PART II. WORKFORCE PROJECTION - continued**

- B. Included in "Total Employees" under Table A is the total number of **new hires** that would be employed in the event the undersigned bidder is awarded this contract.

The undersigned bidder projects that: (number) \_\_\_\_\_ new hires would be recruited from the area in which the contract project is located; and/or (number) \_\_\_\_\_ new hires would be recruited from the area in which the bidder's principal office or base of operation is located.

- C. Included in "Total Employees" under Table A is a projection of numbers of persons to be employed directly by the undersigned bidder as well as a projection of numbers of persons to be employed by subcontractors.

The undersigned bidder estimates that (number) \_\_\_\_\_ persons will be directly employed by the prime contractor and that (number) \_\_\_\_\_ persons will be employed by subcontractors.

**PART III. AFFIRMATIVE ACTION PLAN**

- A. The undersigned bidder understands and agrees that in the event the foregoing minority and female employee utilization projection included under **PART II** is determined to be an underutilization of minority persons or women in any job category, and in the event that the undersigned bidder is awarded this contract, he/she will, prior to commencement of work, develop and submit a written Affirmative Action Plan including a specific timetable (geared to the completion stages of the contract) whereby deficiencies in minority and/or female employee utilization are corrected. Such Affirmative Action Plan will be subject to approval by the contracting agency and the **Department of Human Rights**.
- B. The undersigned bidder understands and agrees that the minority and female employee utilization projection submitted herein, and the goals and timetable included under an Affirmative Action Plan if required, are deemed to be part of the contract specifications.

Company \_\_\_\_\_ Telephone Number \_\_\_\_\_

Address \_\_\_\_\_

**NOTICE REGARDING SIGNATURE**

The Bidder's signature on the Proposal Signature Sheet will constitute the signing of this form. The following signature block needs to be completed only if revisions are required.

Signature:  \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

- Instructions: All tables must include subcontractor personnel in addition to prime contractor personnel.
- Table A - Include both the number of employees that would be hired to perform the contract work and the total number currently employed (Table B) that will be allocated to contract work, and include all apprentices and on-the-job trainees. The "Total Employees" column should include all employees including all minorities, apprentices and on-the-job trainees to be employed on the contract work.
- Table B - Include all employees currently employed that will be allocated to the contract work including any apprentices and on-the-job trainees currently employed.
- Table C - Indicate the racial breakdown of the total apprentices and on-the-job trainees shown in Table A.

**RETURN WITH BID**

**ADDITIONAL FEDERAL REQUIREMENTS**

In addition to the Required Contract Provisions for Federal-Aid Construction Contracts (FHWA 1273), all bidders make the following certifications.

- A. By the execution of this proposal, the signing bidder certifies that the bidding entity has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This statement made by the undersigned bidder is true and correct under penalty of perjury under the laws of the United States.
- B. **CERTIFICATION, EQUAL EMPLOYMENT OPPORTUNITY:**
1. Have you participated in any previous contracts or subcontracts subject to the equal opportunity clause. YES \_\_\_\_\_ NO \_\_\_\_\_
  2. If answer to #1 is yes, have you filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements of those organizations? YES \_\_\_\_\_ NO \_\_\_\_\_

**RETURN WITH BID**

**Contract No. 64987  
WINNEBAGO County  
Section 129K-1  
Project NHF-0303(053)  
Route FAP 303  
District 2 Construction Funds**

PROPOSAL SIGNATURE SHEET

The undersigned bidder hereby makes and submits this bid on the subject Proposal, thereby assuring the Department that all requirements of the Invitation for Bids and rules of the Department have been met, that there is no misunderstanding of the requirements of paragraph 3 of this Proposal, and that the contract will be executed in accordance with the rules of the Department if an award is made on this bid.

(IF AN INDIVIDUAL)

Firm Name \_\_\_\_\_  
Signature of Owner \_\_\_\_\_  
Business Address \_\_\_\_\_  
\_\_\_\_\_

(IF A CO-PARTNERSHIP)

Firm Name \_\_\_\_\_  
By \_\_\_\_\_  
Business Address \_\_\_\_\_  
Name and Address of All Members of the Firm: \_\_\_\_\_  
\_\_\_\_\_

(IF A CORPORATION)

Corporate Name \_\_\_\_\_  
By \_\_\_\_\_  
Signature of Authorized Representative \_\_\_\_\_  
Typed or printed name and title of Authorized Representative \_\_\_\_\_  
Attest \_\_\_\_\_  
Signature \_\_\_\_\_  
(IF A JOINT VENTURE, USE THIS SECTION FOR THE MANAGING PARTY AND THE SECOND PARTY SHOULD SIGN BELOW)  
Business Address \_\_\_\_\_

(IF A JOINT VENTURE)

Corporate Name \_\_\_\_\_  
By \_\_\_\_\_  
Signature of Authorized Representative \_\_\_\_\_  
Typed or printed name and title of Authorized Representative \_\_\_\_\_  
Attest \_\_\_\_\_  
Signature \_\_\_\_\_  
Business Address \_\_\_\_\_

If more than two parties are in the joint venture, please attach an additional signature sheet.



Return with Bid

Division of Highways  
Proposal Bid Bond  
(Effective November 1, 1992)

Item No. \_\_\_\_\_

Letting Date \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, That We \_\_\_\_\_

as PRINCIPAL, and \_\_\_\_\_

\_\_\_\_\_ as SURETY, are held jointly, severally and firmly bound unto the STATE OF ILLINOIS in the penal sum of 5 percent of the total bid price, or for the amount specified in Article 102.09 of the "Standard Specifications for Road and Bridge Construction" in effect on the date of invitation for bids, whichever is the lesser sum, well and truly to be paid unto said STATE OF ILLINOIS, for the payment of which we bind ourselves, our heirs, executors, administrators, successors and assigns.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, that whereas, the PRINCIPAL has submitted a bid proposal to the STATE OF ILLINOIS, acting through the Department of Transportation, for the improvement designated by the Transportation Bulletin Item Number and Letting Date indicated above.

NOW, THEREFORE, if the Department shall accept the bid proposal of the PRINCIPAL; and if the PRINCIPAL shall, within the time and as specified in the bidding and contract documents, submit a DBE Utilization Plan that is accepted and approved by the Department; and if, after award by the Department, the PRINCIPAL shall enter into a contract in accordance with the terms of the bidding and contract documents including evidence of the required insurance coverages and providing such bond as specified with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof; or if, in the event of the failure of the PRINCIPAL to make the required DBE submission or to enter into such contract and to give the specified bond, the PRINCIPAL pays to the Department the difference not to exceed the penalty hereof between the amount specified in the bid proposal and such larger amount for which the Department may contract with another party to perform the work covered by said bid proposal, then this obligation shall be null and void, otherwise, it shall remain in full force and effect.

IN THE EVENT the Department determines the PRINCIPAL has failed to comply with any requirement as set forth in the preceding paragraph, then Surety shall pay the penal sum to the Department within fifteen (15) days of written demand therefor. If Surety does not make full payment within such period of time, the Department may bring an action to collect the amount owed. Surety is liable to the Department for all its expenses, including attorney's fees, incurred in any litigation in which it prevails either in whole or in part.

In TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by

their respective officers this \_\_\_\_\_ day of \_\_\_\_\_ A.D., \_\_\_\_\_ .

**PRINCIPAL**

**SURETY**

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Company Name)

By \_\_\_\_\_  
(Signature & Title)

By: \_\_\_\_\_  
(Signature of Attorney-in-Fact)

**Notary Certification for Principal and Surety**

STATE OF ILLINOIS,  
County of \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public in and for said County, do hereby certify that

\_\_\_\_\_ and \_\_\_\_\_  
(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_ A.D. \_\_\_\_\_

My commission expires \_\_\_\_\_

\_\_\_\_\_  
Notary Public

In lieu of completing the above section of the Proposal Bid Form, the Principal may file an Electronic Bid Bond. By signing the proposal and marking the check box next to the Signature and Title line below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the State of Illinois under the conditions of the bid bond as shown above.

\_\_\_\_\_  
Electronic Bid Bond ID#

\_\_\_\_\_  
Company / Bidder Name



\_\_\_\_\_  
Signature and Title

**(1) Policy**

It is public policy that disadvantageded businesses as defined in 49 CFR Part 26 and the Special Provision shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal or State funds. Consequently the requirements of 49 CFR Part 26 apply to this contract.

**(2) Obligation**

The contractor agrees to ensure that disadvantageded businesses as defined in 49 CFR Part 26 and the Special Provision have the maximum opportunity to participate in the performance of contracts or subcontracts financed in whole or in part with Federal or State funds. The contractor shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 and the Special Provision to ensure that said businesses have the maximum opportunity to compete for and perform under this contract. The contractor shall not discriminate on the basis of race, color, national origin or sex in the award and performance of contracts.

**(3) Project and Bid Identification**

Complete the following information concerning the project and bid:

|                        |  |
|------------------------|--|
| Route _____            | Total Bid _____                                |
| Section _____          | Contract DBE Goal _____                        |
| Project _____          | (Percent)                      (Dollar Amount) |
| County _____           |  |
| Letting Date _____     |  |
| Contract No. _____     |  |
| Letting Item No. _____ |  |

**(4) Assurance**

I, acting in my capacity as an officer of the undersigned bidder (or bidders if a joint venture), hereby assure the Department that on this project my company : (check one)

Meets or exceeds contract award goals and has provided documented participation as follows:  
Disadvantaged Business Participation \_\_\_\_\_ percent

Attached are the signed participation statements, forms SBE 2025, required by the Special Provision evidencing availability and use of each business participating in this plan and assuring that each business will perform a commercially useful function in the work of the contract.

Failed to meet contract award goals and has included good faith effort documentation to meet the goals and that my company has provided participation as follows:

Disadvantaged Business Participation \_\_\_\_\_ percent

The contract goals should be accordingly modified or waived. Attached is all information required by the Special Provision in support of this request including good faith effort. Also attached are the signed participation statements, forms SBE 2025, required by the Special Provision evidencing availability and use of each business participating in this plan and assuring that each business will perform a commercially useful function in the work of the contract.

\_\_\_\_\_  
Company

By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

The "as read" Low Bidder is required to comply with the Special Provision.

Submit only one utilization plan for each project. The utilization plan shall be submitted in accordance with the special provision.

Bureau of Small Business Enterprises                      **Local Let Projects**  
2300 South Dirksen Parkway                                      Submit forms to the  
Springfield, Illinois 62764    Local Agency

The Department of Transportation is requesting disclosure of information that is necessary to accomplish the purpose as outlined under State and Federal law. Disclosure of this information is **REQUIRED**. Failure to provide any information will result in the contract not being awarded. This form has been approved by the State Forms Manager Center.



**Illinois Department  
of Transportation**

**DBE Participation Statement**

Subcontractor Registration \_\_\_\_\_

Letting \_\_\_\_\_

**Participation Statement**

Item No. \_\_\_\_\_

(1) Instructions

Contract \_\_\_\_\_

This form must be completed for each disadvantaged business participating in the Utilization Plan. This form shall be submitted in accordance with the special provision and will be attached to the Utilization Plan form.. If additional space is needed complete an additional form for the firm.

(2) Work

| Pay Item No. | Description | Quantity | Unit Price | Total |
|--------------|-------------|----------|------------|-------|
|              |             |          |            |       |
|              |             |          |            |       |
|              |             |          |            |       |
|              |             |          |            |       |
|              |             |          |            |       |
|              |             |          |            |       |
| <b>Total</b> |             |          |            |       |

(3) Partial Payment Items

For any of the above items which are partial pay items, specifically describe the work and subcontract dollar amount:

(4) Commitment

The undersigned certify that the information included herein is true and correct, and that the DBE firm listed below has agreed to perform a commercially useful function in the work of the contract item(s) listed above and to execute a contract with the prime contractor. The undersigned further understand that no changes to this statement may be made without prior approval from the Department's Bureau of Small Business Enterprises and that complete and accurate information regarding actual work performed on this project and the payment therefore must be provided to the Department.

\_\_\_\_\_  
Signature for Prime Contractor

\_\_\_\_\_  
Signature for DBE Firm

Title \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Contact \_\_\_\_\_

Contact Person \_\_\_\_\_

Phone \_\_\_\_\_

Phone \_\_\_\_\_

Firm Name \_\_\_\_\_

Firm Name \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

City/State/Zip \_\_\_\_\_

E \_\_\_\_\_

WC \_\_\_\_\_

The Department of Transportation is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under the state and federal law. Disclosure of this information is **REQUIRED**. Failure to provide any information will result in the contract not being awarded. This form has been approved by the State Forms Management Center.

# PROPOSAL ENVELOPE



# PROPOSALS

for construction work advertised for bids by the  
Illinois Department of Transportation

| Item No. | Item No. | Item No. |
|----------|----------|----------|
|          |          |          |
|          |          |          |
|          |          |          |
|          |          |          |

Submitted By:

|           |
|-----------|
| Name:     |
| Address:  |
|           |
|           |
| Phone No. |

Bidders should use an IDOT proposal envelope or affix this form to the front of a 10" x 13" envelope for the submittal of bids. If proposals are mailed, they should be enclosed in a second or outer envelope addressed to:

Engineer of Design and Environment - Room 326  
Illinois Department of Transportation  
2300 South Dirksen Parkway  
Springfield, Illinois 62764

## **NOTICE**

**Individual bids, including Bid Bond and/or supplemental information if required, should be securely stapled.**

# CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

## NOTICE

None of the following material needs to be returned with the bid package unless the special provisions require documentation and/or other information to be submitted.

**Contract No. 64987  
WINNEBAGO County  
Section 129K-1  
Project NHF-0303(053)  
Route FAP 303  
District 2 Construction Funds**



**Illinois Department of Transportation**

## **SUBCONTRACTOR DOCUMENTATION**

Public Acts 96-0795 and 96-0920, enacted substantial changes to the provisions of the Illinois Procurement Code (30 ILCS 500). Among the changes are provisions affecting subcontractors. The Contractor awarded this contract will be required as a material condition of the contract to implement and enforce the contract requirements applicable to subcontractors approved in accordance with article 108.01 of the Standard Specifications for Road and Bridge Construction.

If the Contractor seeks approval of subcontractors to perform a portion of the work, and approval is granted by the Department, the Contractor shall provide a copy of the subcontract to the Chief Procurement Officer within 20 calendar days after execution of the subcontract.

The subcontract shall contain the certifications required to be made by subcontractors pursuant to Article 50 of the Illinois Procurement Code. This Notice to Bidders includes a document incorporating all required subcontractor certifications and disclosures for use by the Contractor in compliance with this mandate. The document is entitled State Required Ethical Standards Governing Subcontractors.

## RETURN WITH SUBCONTRACT

### STATE ETHICAL STANDARDS GOVERNING SUBCONTRACTORS

Article 50 of the Illinois Procurement Code establishes the duty of all State chief procurement officers, State purchasing officers, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.

The certifications hereinafter made by the subcontractor are each a material representation of fact upon which reliance is placed should the Department approve the subcontractor. The chief procurement officer may terminate or void the subcontract approval if it is later determined that the bidder or subcontractor rendered a false or erroneous certification.

Section 50-2 of the Illinois Procurement Code provides that every person that has entered into a multi-year contract and every subcontractor with a multi-year subcontract shall certify, by July 1 of each fiscal year covered by the contract after the initial fiscal year, to the responsible chief procurement officer whether it continues to satisfy the requirements of Article 50 pertaining to the eligibility for a contract award. If a contractor or subcontractor is not able to truthfully certify that it continues to meet all requirements, it shall provide with its certification a detailed explanation of the circumstances leading to the change in certification status. A contractor or subcontractor that makes a false statement material to any given certification required under Article 50 is, in addition to any other penalties or consequences prescribed by law, subject to liability under the Whistleblower Reward and Protection Act for submission of a false claim.

#### **A. Bribery**

1. The Illinois Procurement Code provides:

Section 50-5. Bribery.

(a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:

(1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or

(2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.

(b) Businesses. No business shall be barred from contracting with any unit of State or local government, or subcontracting under such a contract, as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:

(1) the business has been finally adjudicated not guilty; or

(2) the business demonstrates to the governmental entity with which it seeks to contract, or which is signatory to the contract to which the subcontract relates, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.

(c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.

(d) Certification. Every bid submitted to and contract executed by the State, and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

2. The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50.5.

#### **B. Felons**

1. The Illinois Procurement Code provides:

Section 50-10. Felons. Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any State agency, or enter into a subcontract, from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

2. Certification. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the bidder or contractor or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer may declare the related contract void if any of the certifications required by this Section are false.

## RETURN WITH SUBCONTRACT

### **C. Debt Delinquency**

1. The Illinois Procurement Code provides:

Section 50-11 and 50-12. Debt Delinquency.

The contractor or bidder or subcontractor, respectively, certifies that it, or any affiliate, is not barred from being awarded a contract or subcontract under the Procurement Code. Section 50-11 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, if it, or any affiliate, has failed to collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The bidder or contractor or subcontractor, respectively, further acknowledges that the chief procurement officer may declare the related contract void if this certification is false or if the bidder, contractor, or subcontractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

### **D. Prohibited Bidders, Contractors and Subcontractors**

1. The Illinois Procurement Code provides:

Section 50-10.5 and 50-60(c). Prohibited bidders, contractors and subcontractors.

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 or if in violation of Subsection (c) for a period of five years from the date of conviction.. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Procurement Code shall contain a certification by the bidder, contractor, or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the chief procurement officer shall declare the related contract void if any of the certifications completed pursuant to this Section are false.

### **E. Section 42 of the Environmental Protection Act**

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-12 that the bidder, contractor, or subcontractor, is not barred from being awarded a contract or entering into a subcontract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency, or entering into any subcontract, that is subject to the Procurement Code by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The bidder or contractor or subcontractor, respectively, acknowledges that the chief procurement officer may declare the contract void if this certification is false.

**The undersigned, on behalf of the subcontracting company, has read and understands the above certifications and makes the certifications as required by law.**

\_\_\_\_\_  
Name of Subcontracting Company

\_\_\_\_\_  
Authorized Officer

\_\_\_\_\_  
Date

**RETURN WITH SUBCONTRACT**  
**SUBCONTRACTOR DISCLOSURES**

**I. DISCLOSURES**

- A.** The disclosures hereinafter made by the subcontractor are each a material representation of fact upon which reliance is placed. The subcontractor further certifies that the Department has received the disclosure forms for each subcontract.

The chief procurement officer may void the bid, contract, or subcontract, respectively, if it is later determined that the bidder or subcontractor rendered a false or erroneous disclosure. A contractor or subcontractor may be suspended or debarred for violations of the Procurement Code. Furthermore, the chief procurement officer may void the contract or subcontract.

**B. Financial Interests and Conflicts of Interest**

1. Section 50-35 of the Illinois Procurement Code provides that all subcontracts with a total value of \$25,000 or more, from subcontractors identified in Section 20-120 of the Illinois Procurement Code, shall be accompanied by disclosure of the financial interests of the subcontractor. This disclosed information for the subcontractor, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act, filed with the Procurement Policy Board, and shall be incorporated as a material term of the Prime Contractor's contract. Furthermore, pursuant to this Section, the Procurement Policy Board may recommend to allow or void a contract or subcontract based on a potential conflict of interest.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the subcontracting entity or its parent entity, whichever is less, unless the subcontractor is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a subcontractor is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each person making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

**The current annual salary of the Governor is \$177,412.00.**

In addition, all disclosures shall indicate any other current or pending contracts, subcontracts, proposals, leases, or other ongoing procurement relationships the subcontracting entity has with any other unit of state government and shall clearly identify the unit and the contract, subcontract, proposal, lease, or other relationship.

2. **Disclosure Forms.** Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. Subject individuals should be covered each by one form. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies.

**C. Disclosure Form Instructions**

**Form A Instructions for Financial Information & Potential Conflicts of Interest**

If the subcontractor is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a subcontractor is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. If a subcontractor is not subject to Federal 10K reporting, the subcontractor must determine if any individuals are required by law to complete a financial disclosure form. To do this, the subcontractor should answer each of the following questions. A "YES" answer indicates Form A must be completed. If the answer to each of the following questions is "NO", then the **NOT APPLICABLE STATEMENT** on the second page of Form A must be signed and dated by a person that is authorized to execute contracts for the subcontracting company. Note: These questions are for assistance only and are not required to be completed.

1. Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES \_\_\_ NO \_\_\_
2. Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than 60% of the annual salary of the Governor? YES \_\_\_ NO \_\_\_
3. Does anyone in your organization receive more than 60% of the annual salary of the Governor of the subcontracting entity's or parent entity's distributive income? YES \_\_\_ NO \_\_\_

(Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.)

4. Does anyone in your organization receive greater than 5% of the subcontracting entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor? YES \_\_\_ NO \_\_\_

(Note: Only one set of forms needs to be completed per person per subcontract even if a specific individual would require a yes answer to more than one question.)

A "YES" answer to any of these questions requires the completion of Form A. The subcontractor must determine each individual in the subcontracting entity or the subcontracting entity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by a person that is authorized to execute contracts for your organization. **Photocopied or stamped signatures are not acceptable.** The person signing can be, but does not have to be, the person for which the form is being completed. The subcontractor is responsible for the accuracy of any information provided.

If the answer to each of the above questions is "NO", then the **NOT APPLICABLE STATEMENT** on page 2 of Form A must be signed and dated by a person that is authorized to execute contracts for your company.

## RETURN WITH SUBCONTRACT

### **Form B: Instructions for Identifying Other Contracts & Procurement Related Information**

Disclosure Form B must be completed for each subcontract submitted by the subcontracting entity. *Note: Checking the NOT APPLICABLE STATEMENT on Form A does not allow the subcontractor to ignore Form B. Form B must be completed, checked, and dated or the subcontract will not be approved.*

The Subcontractor shall identify, by checking Yes or No on Form B, whether it has any pending contracts, subcontracts, leases, bids, proposals, or other ongoing procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the subcontractor only needs to complete the check box on the bottom of Form B. If "Yes" is checked, the subcontractor must list all non-IDOT State of Illinois agency pending contracts, subcontracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an attached sheet(s). Contracts with cities, counties, villages, etc. are not considered State of Illinois agency contracts and are not to be included. Contracts or subcontracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital Development Board must be included.

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form A Subcontractor: Financial Information & Potential Conflicts of Interest Disclosure

Subcontractor Name, Legal Address, City, State, Zip, Telephone Number, Email Address, Fax Number (if available)

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Code (30 ILCS 500). Subcontractors desiring to enter into a subcontract of a State of Illinois contract must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form. This information shall become part of the publicly available contract file. This Form A must be completed for subcontracts with a total value of \$25,000 or more, from subcontractors identified in Section 20-120 of the Illinois Procurement Code, and for all open-ended contracts. A publicly traded company may submit a 10K disclosure (or equivalent if applicable) in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.

The current annual salary of the Governor is \$177,412.00.

DISCLOSURE OF FINANCIAL INFORMATION

1. Disclosure of Financial Information. The individual named below has an interest in the SUBCONTRACTOR (or its parent) in terms of ownership or distributive income share in excess of 5%, or an interest which has a value of more than 60% of the annual salary of the Governor. (Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)

FOR INDIVIDUAL (type or print information) NAME: ADDRESS Type of ownership/distributable income share: stock sole proprietorship Partnership other: (explain on separate sheet): % or \$ value of ownership/distributable income share:

2. Disclosure of Potential Conflicts of Interest. Check "Yes" or "No" to indicate which, if any, of the following potential conflict of interest relationships apply. If the answer to any question is "Yes", please attach additional pages and describe.

(a) State employment, currently or in the previous 3 years, including contractual employment of services. Yes \_\_\_ No \_\_\_

If your answer is yes, please answer each of the following questions.

- 1. Are you currently an officer or employee of either the Capitol Development Board or the Illinois State Toll Highway Authority? Yes \_\_\_ No \_\_\_
2. Are you currently appointed to or employed by any agency of the State of Illinois? If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, provide the name the State agency for which you are employed and your annual salary.

**RETURN WITH SUBCONTRACT**

3. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 100% of the annual salary of the Governor?  
Yes \_\_\_ No \_\_\_

4. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15 % in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor?  
Yes \_\_\_ No \_\_\_

---

(b) State employment of spouse, father, mother, son, or daughter, including contractual employment services in the previous 2 years.

Yes \_\_\_ No \_\_\_

If your answer is yes, please answer each of the following questions.

1. Is your spouse or any minor children currently an officer or employee of the Capitol Development Board or the Illinois State Toll Highway Authority?  
Yes \_\_\_ No \_\_\_

2. Is your spouse or any minor children currently appointed to or employed by any agency of the State of Illinois? If your spouse or minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, provide the name of your spouse and/or minor children, the name of the State agency for which he/she is employed and his/her annual salary. \_\_\_\_\_

---

3. If your spouse or any minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 100% of the annual salary of the Governor?  
Yes \_\_\_ No \_\_\_

4. If your spouse or any minor children are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15 % in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor?  
Yes \_\_\_ No \_\_\_

---

(c) Elective status; the holding of elective office of the State of Illinois, the government of the United States, any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois currently or in the previous 3 years.  
Yes \_\_\_ No \_\_\_

---

(d) Relationship to anyone holding elective office currently or in the previous 2 years; spouse, father, mother, son, or daughter.  
Yes \_\_\_ No \_\_\_

---

(e) Appointive office; the holding of any appointive government office of the State of Illinois, the United States of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of the expenses incurred in the discharge of that office currently or in the previous 3 years.  
Yes \_\_\_ No \_\_\_

---

(f) Relationship to anyone holding appointive office currently or in the previous 2 years; spouse, father, mother, son, or daughter.  
Yes \_\_\_ No \_\_\_

---

(g) Employment, currently or in the previous 3 years, as or by any registered lobbyist of the State government.  
Yes \_\_\_ No \_\_\_

**RETURN WITH SUBCONTRACT**

(h) Relationship to anyone who is or was a registered lobbyist in the previous 2 years; spouse, father, mother, son, or daughter. Yes \_\_\_ No \_\_\_

(i) Compensated employment, currently or in the previous 3 years, by any registered election or reelection committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes \_\_\_ No \_\_\_

(j) Relationship to anyone; spouse, father, mother, son, or daughter; who was a compensated employee in the last 2 years by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes \_\_\_ No \_\_\_

**3. Communication Disclosure.**

Disclose the name and address of each lobbyist and other agent of the bidder or offeror who is not identified in Section 2 of this form, who is has communicated, is communicating, or may communicate with any State officer or employee concerning the bid or offer. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the process and throughout the term of the contract. If no person is identified, enter "None" on the line below:

Name and address of person(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**RETURN WITH SUBCONTRACT**

**4. Debarment Disclosure.** For each of the persons identified under Sections 2 and 3 of this form, disclose whether any of the following has occurred within the previous 10 years: debarment from contracting with any governmental entity; professional licensure discipline; bankruptcies; adverse civil judgments and administrative findings; and criminal felony convictions. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the procurement process and term of the contract. If no person is identified, enter "None" on the line below:

Name of person(s): \_\_\_\_\_

Nature of disclosure: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**APPLICABLE STATEMENT**

**This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page. Under penalty of perjury, I certify the contents of this disclosure to be true and accurate to the best of my knowledge.**

Completed by:  \_\_\_\_\_ Date \_\_\_\_\_  
Signature of Individual or Authorized Officer

**NOT APPLICABLE STATEMENT**

**Under penalty of perjury, I have determined that no individuals associated with this organization meet the criteria that would require the completion of this Form A.**

**This Disclosure Form A is submitted on behalf of the SUBCONTRACTOR listed on the previous page.**

\_\_\_\_\_ Date \_\_\_\_\_  
Signature of Authorized Officer

RETURN WITH SUBCONTRACT

ILLINOIS DEPARTMENT  
OF TRANSPORTATION

Form B  
Subcontractor: Other Contracts &  
Procurement Related Information  
Disclosure

|                    |               |                           |
|--------------------|---------------|---------------------------|
| Subcontractor Name |               |                           |
| Legal Address      |               |                           |
| City, State, Zip   |               |                           |
| Telephone Number   | Email Address | Fax Number (if available) |

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Act (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for subcontracts with a total value of \$25,000 or more, from subcontractors identified in Section 20-120 of the Illinois Procurement Code, and for all open-ended contracts.

**DISCLOSURE OF OTHER CONTRACTS, SUBCONTRACTS, AND PROCUREMENT RELATED INFORMATION**

**1. Identifying Other Contracts & Procurement Related Information.** The SUBCONTRACTOR shall identify whether it has any pending contracts, subcontracts, including leases, bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency: Yes \_\_\_ No \_\_\_

If "No" is checked, the subcontractor only needs to complete the signature box on the bottom of this page.

**2. If "Yes" is checked.** Identify each such relationship by showing State of Illinois agency name and other descriptive information such as bid or project number (attach additional pages as necessary). SEE DISCLOSURE FORM INSTRUCTIONS:

**THE FOLLOWING STATEMENT MUST BE CHECKED**

|                          |                                 |       |
|--------------------------|---------------------------------|-------|
| <input type="checkbox"/> | _____                           | _____ |
|                          | Signature of Authorized Officer | Date  |



## NOTICE TO BIDDERS

- 1. TIME AND PLACE OF OPENING BIDS.** Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway, in Springfield, Illinois until 10:00 o'clock a.m., June 17, 2011. All bids will be gathered, sorted, publicly opened and read in the auditorium at the Department of Transportation's Harry R. Hanley Building shortly after the 10:00 a.m. cut off time.
- 2. DESCRIPTION OF WORK.** The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

**Contract No. 64987  
WINNEBAGO County  
Section 129K-1  
Project NHF-0303(053)  
Route FAP 303  
District 2 Construction Funds**

**Roadway reconstruction and intersection improvements on IL Route 173 at IL Route 251 in Machesney Park.**

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

By Order of the  
Illinois Department of Transportation

Gary Hannig,  
Secretary

INDEX  
 FOR  
 SUPPLEMENTAL SPECIFICATIONS  
 AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2011

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS and frequently used RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-07) (Revised 1-1-11)

SUPPLEMENTAL SPECIFICATIONS

| <u>Std. Spec. Sec.</u>  | <u>Page No.</u> |
|---|-----------------|
| 201 Clearing, Tree Removal and Protection .....                       | 1               |
| 205 Embankment .....  | 2               |
| 251 Mulch .....   | 3               |
| 253 Planting Woody Plants .....                                       | 4               |
| 280 Temporary Erosion Control .....                                   | 6               |
| 406 Hot-Mix Asphalt Binder and Surface Course .....                   | 7               |
| 420 Portland Cement Concrete Pavement .....                           | 11              |
| 443 Reflective Crack Control Treatment .....                          | 12              |
| 501 Removal of Existing Structures .....                              | 15              |
| 502 Excavation for Structures .....                                   | 16              |
| 503 Concrete Structures .....   | 17              |
| 504 Precast Concrete Structures .....                                 | 18              |
| 505 Steel Structures .....  | 19              |
| 508 Reinforcement Bars .....  | 20              |
| 540 Box Culverts .....  | 21              |
| 581 Waterproofing Membrane System .....                               | 22              |
| 606 Concrete Gutter, Curb, Median, and Paved Ditch .....              | 23              |
| 630 Steel Plate Beam Guardrail .....                                  | 24              |
| 633 Removing and Reerecting Guardrail and Terminals .....             | 25              |
| 637 Concrete Barrier .....  | 26              |
| 664 Chain Link Fence .....  | 27              |
| 669 Removal and Disposal of Regulated Substances .....                | 28              |
| 672 Sealing Abandoned Water Wells .....                               | 29              |
| 701 Work Zone Traffic Control and Protection .....                    | 30              |
| 720 Sign Panels and Appurtenances .....                               | 32              |
| 721 Sign Panel Overlay .....  | 33              |
| 722 Demountable Sign Legend Characters and Arrows .....               | 34              |
| 726 Mile Post Marker Assembly .....                                   | 35              |
| 733 Overhead Sign Structures .....                                    | 36              |
| 780 Pavement Striping .....   | 37              |
| 782 Prismatic Reflectors .....  | 42              |
| 783 Pavement Marking and Marker Removal .....                         | 43              |
| 801 Electrical Requirements .....                                     | 44              |
| 805 Electrical Service Installation – Traffic Signals .....           | 45              |
| 821 Roadway Luminaires .....  | 46              |
| 836 Pole Foundation .....   | 47              |
| 838 Breakaway Devices .....   | 48              |
| 843 Removal of Navigational Obstruction Warning Lighting System ..... | 49              |
| 862 Uninterruptable Power Supply .....                                | 50              |
| 873 Electric Cable .....  | 52              |
| 878 Traffic Signal Concrete Foundation .....                          | 54              |
| 1003 Fine Aggregates .....  | 55              |
| 1004 Coarse Aggregates .....  | 56              |
| 1005 Stone and Broken Concrete .....                                  | 57              |
| 1006 Metals .....   | 58              |

|      |   |     |
|------|---|-----|
| 1008 | Structural Steel Coatings .....           | 60  |
| 1010 | Finely Divided Materials .....            | 65  |
| 1020 | Portland Cement Concrete .....            | 66  |
| 1022 | Concrete Curing Materials .....           | 77  |
| 1024 | Nonshrink Grout .....                     | 78  |
| 1026 | Concrete Sealer .....                     | 79  |
| 1030 | Hot-Mix Asphalt .....                     | 80  |
| 1032 | Bituminous Materials .....                | 87  |
| 1042 | Precast Concrete Products .....           | 90  |
| 1062 | Reflective Crack Control System .....     | 92  |
| 1069 | Pole and Tower .....                      | 94  |
| 1074 | Control Equipment .....                   | 97  |
| 1076 | Wire and Cable .....                      | 102 |
| 1077 | Post and Foundation .....                 | 103 |
| 1080 | Fabric Materials .....                    | 105 |
| 1081 | Materials for Planting .....              | 106 |
| 1083 | Elastomeric Bearings .....                | 108 |
| 1090 | Sign Base .....                           | 109 |
| 1091 | Sign Face .....                           | 111 |
| 1092 | Sign Legend and Supplemental Panels ..... | 119 |
| 1093 | Sign Supports .....                       | 120 |
| 1094 | Overhead Sign Structures .....            | 122 |
| 1095 | Pavement Markings .....                   | 128 |
| 1097 | Reflectors .....                          | 136 |
| 1101 | General Equipment .....                   | 137 |
| 1102 | Hot-Mix Asphalt Equipment .....           | 138 |
| 1103 | Portland Cement Concrete Equipment .....  | 140 |
| 1105 | Pavement Marking Equipment .....          | 141 |
| 1106 | Work Zone Traffic Control Devices .....   | 143 |

RECURRING SPECIAL PROVISIONS

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

| <u>CHECK SHEET #</u>   | <u>PAGE NO.</u> |
|--|-----------------|
| 1 X Additional State Requirements For Federal-Aid Construction Contracts<br>(Eff. 2-1-69) (Rev. 1-1-10) .....                | 145             |
| 2 X Subletting of Contracts (Federal-Aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93) .....  | 148             |
| 3 X EEO (Eff. 7-21-78) (Rev. 11-18-80) .....   | 149             |
| 4 Specific Equal Employment Opportunity Responsibilities<br>Non Federal-Aid Contracts (Eff. 3-20-69) (Rev. 1-1-94) .....     | 159             |
| 5 Required Provisions - State Contracts (Eff. 4-1-65) (Rev. 1-1-10) .....  | 164             |
| 6 Reserved .....   | 169             |
| 7 Reserved .....   | 170             |
| 8 Haul Road Stream Crossings, Other Temporary Stream Crossings, and<br>In-Stream Work Pads (Eff. 1-2-92) (Rev. 1-1-98) ..... | 171             |
| 9 Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-07) .....  | 172             |
| 10 X Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-07) .....  | 175             |
| 11 Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-07) .....  | 178             |
| 12 Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 1-1-07) .....   | 180             |
| 13 Hot-Mix Asphalt Surface Correction (Eff. 11-1-87) (Rev. 1-1-09) .....   | 184             |
| 14 X Pavement and Shoulder Resurfacing (Eff. 2-1-00) (Rev. 1-1-09) .....   | 186             |
| 15 PCC Partial Depth Hot-Mix Asphalt Patching (Eff. 1-1-98) (Rev. 1-1-07) .....  | 187             |
| 16 Patching with Hot-Mix Asphalt Overlay Removal (Eff. 10-1-95) (Rev. 1-1-07) .....  | 189             |
| 17 Polymer Concrete (Eff. 8-1-95) (Rev. 1-1-08) .....  | 190             |
| 18 PVC Pipeliner (Eff. 4-1-04) (Rev. 1-1-07) .....   | 192             |
| 19 Pipe Underdrains (Eff. 9-9-87) (Rev. 1-1-07) .....  | 193             |
| 20 X Guardrail and Barrier Wall Delineation (Eff. 12-15-93) (Rev. 1-1-97) .....  | 194             |
| 21 Bicycle Racks (Eff. 4-1-94) (Rev. 1-1-07) .....   | 198             |
| 22 Temporary Modular Glare Screen System (Eff. 1-1-00) (Rev. 1-1-07) .....   | 200             |
| 23 Temporary Portable Bridge Traffic Signals (Eff. 8-1-03) (Rev. 1-1-07) .....   | 202             |
| 24 X Work Zone Public Information Signs (Eff. 9-1-02) (Rev. 1-1-07) .....  | 204             |
| 25 X Night Time Inspection of Roadway Lighting (Eff. 5-1-96) .....   | 205             |
| 26 English Substitution of Metric Bolts (Eff. 7-1-96) .....  | 206             |
| 27 English Substitution of Metric Reinforcement Bars (Eff. 4-1-96) (Rev. 1-1-03) .....                                       | 207             |
| 28 Calcium Chloride Accelerator for Portland Cement Concrete (Eff. 1-1-01) .....   | 208             |
| 29 Reserved .....  | 209             |
| 30 Quality Control of Concrete Mixtures at the Plant<br>(Eff. 8-1-00) (Rev. 1-1-11) .....                                    | 210             |
| 31 X Quality Control/Quality Assurance of Concrete Mixtures<br>(Eff. 4-1-92) (Rev. 1-1-11) .....                             | 218             |
| 32 Asbestos Bearing Pad Removal (Eff. 11-1-03) .....   | 230             |
| 33 Asbestos Hot-Mix Asphalt Surface Removal (Eff. 6-1-89) (Rev. 1-1-09) .....  | 231             |

## TABLE OF CONTENTS

|   |    |
|---|----|
| LOCATION OF PROJECT .....   | 1  |
| DESCRIPTION OF PROJECT .....  | 1  |
| TRAFFIC CONTROL PLAN .....  | 1  |
| TRAFFIC CONTROL AND PROTECTION (SPECIAL) .....                                    | 6  |
| MAINTENANCE OF ROADWAYS .....   | 6  |
| CRITICAL PATH SCHEDULE.....   | 7  |
| COMPLETION DATE PLUS WORKING DAYS FOR 2011 .....                                  | 7  |
| COMPLETION DATE (VIA CALENDAR DAYS) FOR N. 2ND FRONTAGE ROAD CLOSURE IN 2011..... | 7  |
| START DATE FOR 2012 .....   | 8  |
| COMPLETION DATE (VIA CALENDAR DAYS) FOR N. 2ND FRONTAGE ROAD CLOSURE IN 2012..... | 8  |
| COMPLETION DATE (VIA CALENDAR DAYS) FOR ALPINE ROAD CLOSURE IN 2012.....          | 8  |
| COMPLETION DATE PLUS WORKING DAYS FOR 2012 .....                                  | 8  |
| FURNISHED EXCAVATION.....   | 8  |
| MOWING.....   | 9  |
| TEMPORARY DITCH CHECKS .....  | 9  |
| COMPACTION OF POLYMERIZED HOT-MIX ASPHALT CONCRETE.....                           | 9  |
| HOT-MIX ASPHALT SURFACE COURSE, MIX “C”, N50.....                                 | 9  |
| MILLING RESTRICTIONS .....  | 10 |
| REMOVAL OF EXISTING STRUCTURES .....  | 10 |
| WATER VALVES 8” .....   | 11 |
| FIRE HYDRANTS TO BE REMOVED .....   | 11 |
| FIRE HYDRANT EXTENSION.....   | 12 |
| DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED.....                                  | 12 |
| FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX.....                              | 12 |
| DOMESTIC WATER SERVICE BOXES TO BE REMOVED.....                                   | 13 |
| HOT MIX ASPHALT MEDIAN.....   | 13 |
| TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED .....                           | 13 |
| GUARDRAIL REMOVAL.....  | 14 |
| ENGINEER’S FIELD OFFICE TYPE A.....   | 14 |
| WORK ZONE PAVEMENT MARKING AND REMOVAL .....                                      | 16 |
| BOX CULVERT TO BE CLEANED .....   | 16 |
| BUILDING REMOVAL NO. 1 .....  | 16 |
| BUILDING REMOVAL NO. 2 .....  | 17 |
| BUILDING REMOVAL NO. 3 .....  | 17 |
| SEGMENTAL CONCRETE BLOCK WALL.....  | 17 |
| CULVERT TO BE CLEANED.....  | 21 |
| DRYWELL.....  | 22 |
| FENCE REMOVAL .....   | 22 |

|  |    |
|--|----|
| FURNISHING AND INSTALLING PROPERTY MARKERS .....                             | 23 |
| GEOTECHNICAL REINFORCEMENT .....   | 23 |
| IMPACT ATTENUATORS, TEMPORARY .....  | 25 |
| IMPACT ATTENUATORS, RELOCATE .....   | 26 |
| STORM SEWER WATER MAIN .....   | 26 |
| TEMPORARY PAVEMENT .....   | 27 |
| SLOTTED DRAIN .....  | 28 |
| WATER MAIN REMOVAL .....   | 28 |
| WOOD FENCE TO BE REMOVED AND RE-ERECTED .....                                | 29 |
| RETAINING WALL REMOVAL .....   | 29 |
| REMOVE EXISTING FLARED END SECTION .....                                     | 29 |
| WATER MAIN LINE STOP, 8" .....   | 29 |
| DUCTILE IRON WATER MAIN FITTINGS .....                                       | 30 |
| HIGH EARLY STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 9 1/2" (JOINTED) ..... | 30 |
| ISLAND REMOVAL .....   | 30 |
| PARKING LOT PAVEMENT REMOVAL .....   | 31 |
| SANITARY SYSTEM WORK REQUIREMENTS .....                                      | 31 |
| MANHOLE SANITARY 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID .....                 | 33 |
| INLETS, SPECIAL .....  | 34 |
| SANITARY MANHOLES TO BE ADJUSTED .....                                       | 35 |
| SANITARY MANHOLES TO BE RECONSTRUCTED .....                                  | 35 |
| TEMPORARY LIGHTING SYSTEM .....  | 36 |
| PAVEMENT COLOR AND TEXTURE (SPECIAL) .....                                   | 37 |
| SERVICE INSTALLATION (SPECIAL) .....   | 43 |
| CONCRETE FOUNDATION, TYPE E .....  | 43 |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION .....                                  | 43 |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL) .....                        | 44 |
| SEQUENCE OF TRAFFIC SIGNAL CONSTRUCTION .....                                | 45 |
| MAINTENANCE OF EXISTING ELECTRICAL DEVICES .....                             | 46 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT .....                               | 47 |
| REMOVE EXISTING HANDHOLE .....   | 47 |
| REMOVE EXISTING DOUBLE HANDHOLE .....  | 47 |
| REMOVE EXISTING CONCRETE FOUNDATION .....                                    | 48 |
| VIDEO VEHICLE DETECTION SYSTEM .....   | 48 |
| EMERGENCY VEHICLE SIGNAL CONTROL SYSTEM .....                                | 53 |
| SIGN PANEL – TYPE SPECIFIED (SPECIAL) .....                                  | 54 |
| ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN) .....                    | 55 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C .....                            | 55 |
| LIGHTING CONTROLLER, SPECIAL .....   | 56 |

TRAFFIC SIGNAL POST & STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, SPECIAL .... 56

LIGHTING CONTROLLER, SPECIAL ..... 56

TEMPORARY LIGHTING SYSTEM ..... 56

ALKALI-SILICA REACTION FOR CAST-IN-PLACE CONCRETE (BDE) ..... 58

ALKALI-SILICA REACTION FOR PRECAST AND PRECAST PRESTRESSED CONCRETE (BDE)..... 60

APPROVAL OF PROPOSED BORROW AREAS, USE AREAS, AND/OR WASTE AREAS (BDE) ..... 63

CEMENT (BDE) ..... 63

CERTIFICATION OF METAL FABRICATOR (BDE) ..... 65

CONCRETE ADMIXTURES (BDE) ..... 66

CONCRETE JOINT SEALER (BDE) ..... 68

CONCRETE MIX DESIGNS (BDE) ..... 69

CONSTRUCTION AIR QUALITY - DIESEL VEHICLE EMISSIONS CONTROL (BDE) ..... 71

CONSTRUCTION AIR QUALITY - IDLING RESTRICTIONS (BDE)..... 72

DETERMINATION OF THICKNESS (BDE)..... 73

DIGITAL TERRAIN MODELING FOR EARTHWORK CALCULATIONS (BDE) ..... 82

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE) ..... 83

DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (BDE)..... 91

EQUIPMENT RENTAL RATES (BDE)..... 92

FRAMES AND GRATES (BDE)..... 93

FRICTION AGGREGATE (BDE) ..... 93

HOT-MIX ASPHALT – ANTI-STRIPPING ADDITIVE (BDE)..... 96

HOT-MIX ASPHALT - DENSITY TESTING OF LONGITUDINAL JOINTS (BDE) ..... 96

HOT-MIX ASPHALT – DROP-OFFS (BDE) ..... 97

HOT-MIX ASPHALT - FINE AGGREGATE (BDE) ..... 97

IMPACT ATTENUATORS, TEMPORARY (BDE)..... 98

LIQUIDATED DAMAGES (BDE)..... 99

METAL HARDWARE CAST INTO CONCRETE (BDE)..... 100

MULCH AND EROSION CONTROL BLANKETS (BDE)..... 100

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM / EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION (BDE) ..... 103

NIGHTTIME WORK ZONE LIGHTING (BDE) ..... 104

PAVEMENT MARKING REMOVAL (BDE)..... 106

PAYMENTS TO SUBCONTRACTORS (BDE) ..... 106

POST MOUNTING OF SIGNS (BDE)..... 107

PRECAST CONCRETE HANDLING HOLES (BDE)..... 107

PUBLIC CONVENIENCE AND SAFETY (BDE) ..... 109

RAISED REFLECTIVE PAVEMENT MARKERS (BDE)..... 109

RECLAIMED ASPHALT PAVEMENT (RAP) (BDE) ..... 109

SEEDING (BDE) ..... 116

|   |     |
|---|-----|
| SELF-CONSOLIDATING CONCRETE FOR CAST-IN-PLACE CONSTRUCTION (BDE).....   | 118 |
| SELF-CONSOLIDATING CONCRETE FOR PRECAST PRODUCTS (BDE).....             | 122 |
| SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE).....                          | 123 |
| TEMPORARY EROSION CONTROL (BDE).....                                    | 124 |
| TRUCK MOUNTED/TRAILER MOUNTED ATTENUATORS (BDE).....                    | 127 |
| UTILITY COORDINATION AND CONFLICTS (BDE).....                           | 127 |
| BITUMINOUS MATERIALS COST ADJUSTMENTS (BDE) (RETURN FORM WITH BID)..... | 133 |
| FUEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID).....                  | 136 |
| STEEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID).....                 | 140 |
| IEPA PERMIT .....   | 144 |
| IDNR PERMIT .....   | 147 |
| 404 PERMIT.....   | 150 |
| NATIONWIDE PERMITS AND CONDITIONS.....                                  | 152 |
| STORM WATER POLLUTION PREVENTION PLAN.....                              | 165 |

## STATE OF ILLINOIS

### SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction," adopted January 1, 2007, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein which apply to and govern the construction of FAP 303 (IL 173), Project NHF-0303 (053), Section 129K-1, Winnebago County, Contract 64987, and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

#### LOCATION OF PROJECT

IL Route 173 at IL Route 251 in the Village of Machesney Park, Winnebago County.

#### DESCRIPTION OF PROJECT

The project consists of roadway reconstruction and widening of IL 173, IL 251 and side streets, intersection improvements, box culvert constructions, reconstruction of curb and gutter and drainage appurtenances. It also includes placement of segmental concrete block wall, landscaping and asphalt pavement texturing of HMA median.

#### TRAFFIC CONTROL PLAN

Effective January 14, 1999

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

Special attention is called to Articles 107.09 and 107.14 of the Standard Specifications for Road and Bridge Construction and the following Highway Standards relating to traffic control.

Standards:

701006 701101 701106 701201 701206 701301 701306  
701422 701426 701606 701701 701901 704001

Details:

District Standard 40.1

General:

Closing a lane on IL 251 will be permitted only during off-peak hours, between 9:00 AM and 3:00 PM or during the night, and as approved by the Engineer.

Closing a lane on IL 173 will be permitted only during off-peak hours, between 9:00 AM and 3:00 PM or during the night, and as approved by the Engineer. Reducing the traffic to one lane on IL 173 shall be permitted only during the night and as approved by the Engineer.

Signs:

No bracing shall be allowed on post-mounted signs.

Post-mounted signs shall be installed using standard 720011, 728001, and 729001, on 4"x4" wood posts, or on any other "break away" connection if accepted by the FHWA and corresponding letter is provided to the resident.

All signs are required on both sides of the road when the median is greater than 10 feet and on one way roadways.

The "WORKERS" (W21-1a (O)-48) signs shall be replaced with symbol "Right or Left Lane Closed Ahead" (W4-2R or L (O)-48) signs on multilane roadways.

"BUMP" (W8-1(O) 48) signs shall be installed as directed by the Engineer.

"UNEVEN LANES" W8-11(O) 48 signs shall be installed at 1 mile intervals or as directed by the Engineer.

"LOW SHOULDER" W8-9(O) 48 signs shall be installed at 1 mile intervals or as directed by the Engineer.

When covering existing Department signs, no tape shall be used on the reflective portion of the sign. Contact the District sign shop for covering techniques.

All regulatory signs shall be maintained at a 5 foot minimum bottom (rural), or 7 foot minimum (urban).

Devices:

A minimum of 3 drums spaced at 1.2 meters (4 feet) shall be placed at each return when the sideroad is open.

Direction Indicator Barricades shall exclusively be used in lane closure tapers. They shall be used only when traffic is being merged with an adjacent through lane or shifted onto a median crossover.

Vertical barricades shall not be used in weaves, and in the gore areas on Highway Standard 701411.

Lights:

Steady burn mono-directional lights are required on devices delineating a widening trench.

Flaggers:

Flaggers at Sideroads and Commercial Entrances:

Effective: April 9, 2009

Revise the second paragraph of Article 701.13(a) of the Standard Specifications to read:

“The Engineer will determine when a sideroad or commercial entrance shall be closed to traffic. A flagger will be required at each sideroad and commercial entrance deemed necessary by the Engineer remaining open to traffic within the operation where two-way traffic is maintained on one lane of pavement. The flagger shall be positioned as shown on the plans or as directed by the Engineer.”

Revise the first and second paragraph of Article 701.20(i) of the Standard Specifications to read:

“Signs, barricades, or other traffic control devices required by the Engineer over and above those specified will be paid for according to Article 109.04. All flaggers required at sideroads and entrances remaining open to traffic including those that are shown on the Highway Standards and/or additional barricades required by the Engineer to close sideroads and entrances will be paid for according to Article 109.04.”

Flaggers shall comply with all requirements contained in the Department’s “Flagger Handbook” with the following exception: The ANSI Class 2 vest will not be supplied by the Department.

In addition to the flaggers shown on applicable standards, on major sideroads listed below, flaggers shall be required on all legs of the intersection. Major sideroads for this project shall be IL 251, Orlando Street/N. 2<sup>nd</sup> Frontage Road, and Alpine Road.

When the road is closed to through traffic and it is necessary to provide access for local traffic, all flaggers as shown on the applicable standards will be required. No reduction in the number of flaggers shall be allowed except as provided herein.

A reduction in the number of flaggers from that shown on the contract may be permitted when the road is closed to through traffic and it is necessary to provide access for local traffic. If the average daily traffic is 400 or more, or is not shown in the contract, the Contractor shall furnish flaggers and traffic control devices according to the contract. When the road is closed to through traffic, but open to local traffic and average daily traffic, as shown in the plans is less than 400, but more than 100, one flagger will be required for each separate operation where two-way traffic is maintained over one lane and no flagger will be required where at least one unobstructed lane of traffic is maintained, in each direction on multilane pavements. When average daily traffic is less than 100, no flaggers will be required unless the Contractor’s operation encroaches on the open traffic lane, during which time one flagger shall be provided at the Contractor’s expense. If the average daily traffic volume is less than 400, the Engineer may require additional flaggers to protect hazardous conditions and such additional flaggers will be paid for according to Article 109.04.

Pavement Marking:

All temporary pavement markings that will be operational during the winter months (December through March) shall be paint.

Temporary pavement markings shall not be included in the cost of the standard rather it shall be paid for separately at the contract unit prices of specified temporary pavement marking items.

All short term pavement marking placed on a milled surface shall be paint.

Highway Standards Application:

Traffic Control and Protection Standards 701422: This work shall be done according to Standard 701422 and Section 701 of the Standard Specifications. The barricades as shown in Standard 701422 shall not encroach on the lane open to traffic at any time. The only exception to this will be in the immediate work area when workers are present, then the barricades may be moved out to permit the construction operation.

This work shall be included in the contract unit price per Lump Sum for TRAFFIC CONTROL AND PROTECTION STANDARD 701422.

The Contractor shall equip all machinery and vehicles with revolving amber lights, installed so the illumination is visible from all directions.

The median crossover will generally not be available for Contractor use. It may be used only when both lanes adjacent to the median are closed. Under no condition shall left turn lanes be made to cross the median from lanes open to traffic.

Parking of personal vehicles within the interstate right of way will be strictly prohibited. Parking of construction equipment within the right of way will be permitted only at locations approved by the Engineer.

Traffic Control for Road Closure: This work shall be done according to the Road Closure Standard and Section 701 of the Standard Specifications.

“ROAD CLOSED AHEAD” (W20-3(O)-48) with flasher and the appropriate arrow plate (W1-6(O)-36x18 or W1-7(O)-36x18) shall be required on all side roads.

Smythe Avenue/Service Road, Orlando Street/N. 2<sup>nd</sup> Street and N. Alpine Road shall be considered Condition I Major sideroad closures for signing as shown on the District Standard Traffic Control for Road Closure detail.

The Contractor shall notify the Traffic Operations Section of the Bureau of Operations by fax (815/284-5489) and the Bureau of Project Implementation (815/284-5348) in writing by means of fax (to the numbers provided) and also by letter to the District Office. The Contractor shall also be required to notify the Winnebago County Highway Commissioner and/or corresponding Township Commissioner prior to any sideroad closure or opening, and the Village of Machesney Park prior to any changes in side road traffic control.

Signing and devices required to close the road, according to the Traffic Control for Road Closure detail and contained herein, shall be the responsibility of the Contractor.

All costs involved in conforming to this provision shall be considered a part of TRAFFIC CONTROL AND PROTECTION STANDARD 701606.

Other Devices:

TEMPORARY SIGNALS: The Contractor will be required to have someone available at all times to receive phone calls during non-work hours and who is able to reach the job site within one hour of being called. This person will be able to repair the temporary signals or will be able to have flaggers on site within another hour to flag traffic until the signals are again in operation.

Failure to have a person on site within an hour after the initial call out will result in the Contractor being charged liquidated damages by the Department of One Thousand Dollars (\$1,000). Failure to have traffic restored either with repaired signals or with flaggers within two hours after the initial call out will result in the Contractor being charged liquidated damages by the Department of One Thousand Dollars (\$1,000) per hour until traffic is restored. The Contractor may use a traffic control subcontractor for the first call; however this does not relieve the prime Contractor from having a person on call.

Traffic Signal Work: No traffic signal work shall begin until all of the traffic signal hardware is on the job site. The existing traffic signal system shall remain in operation during the modernization work. The work shall be scheduled so that a minimum of two signal indications for each phase remains in operation. No signal indication shall be absent for more than seven calendar days.

The Contractor will be allowed to shut down the existing signal system not to exceed 8 hours to replace the existing controller and cabinet. During this shutdown, the intersection will operate as a 4-way "Stop".

Flexible Delineator Maintenance: This item shall consist of all materials and labor necessary to maintain the flexible delineator required as part of Traffic Control and Protection, Standards 701606 or 701431.

The re-attachment of the flexible delineator to the base shall be considered incidental to the Traffic Control and Protection used.

Any unit which needs repair because the attachment of the base to the pavement failed within 120 hours after installation shall be reattached by the Contractor at his/her expense. Any unit which breaks within 120 hours after installation shall be replaced by the Contractor at his/her expense.

The quantity listed in the contract is only an estimate of the anticipated number of units requiring repair.

This work shall be paid for at the contract unit price per Each for FLEXIBLE DELINEATOR MAINTENANCE to maintain the flexible delineator required as part of Standards 701431 or 701606.

Maintenance of Traffic: The Contractor shall be required to notify the Winnebago County Highway Department, the Village of Machesney Park, the corresponding Township Commissioner, emergency response agencies (i.e.: fire, ambulance, police), school bus companies and the Illinois Department of Transportation – District 2 (Bureau of Project Implementation) regarding any changes in traffic control.

Not more than two sideroad legs may be closed at one time during any stage of construction. Local access must be provided for affected properties and emergency services at all times.

The Contractor shall submit a maintenance of local traffic plan to the Engineer at the preconstruction meeting telling how local access will be maintained at each access location. This traffic plan will need to be approved by the Engineer before construction begins.

The Contractor shall be responsible for providing a weekly article and map to the news media (Machesney Park Post Journal and Rockford Star Register) describing work being performed and stages closed to traffic.

Placing and removing pavement marking shall be completed using Traffic Control and Protection Standard 701701.

At night all workers are required to wear ANSI Class 3 vests and pants.

### **TRAFFIC CONTROL AND PROTECTION (SPECIAL)**

Temporary drainage items as shown on the Storm Water Pollution Protection Plan and Temporary Drainage plan sheets will be paid for per Lump Sum as TRAFFIC CONTROL AND PROTECTION (SPECIAL). This includes items required to stage and maintain traffic that are shown in this section and are not accounted for in the traffic standards, including:

Box culvert extension –Multi-cell box culvert along mainline IL 173 will be extended during the prestage in order to accommodate Pre-stage I traffic control. This work is to be accomplished in general accordance with Section 550 of the Standard Specifications, the plans, and as modified by this special provision. Work may include but is not limited to tee's, concrete collars, structures, pipes, backfill, excavation, removal, etc.

Temporary drainage connections as shown in the plans will be included in this item.

Grate removals/steel plate covers for traffic maintenance will also be included.

Grading for temporary ditches and swales will not be included – These are paid for under the standard grading pay items.

Contractor shall, at the direction of the Engineer and in coordination with the Village of Machesney Park, provide a diversion for the channel along the north side of Illinois Route 173. Diversion shall be provided at the eastern end of the channel, at the point where the overflow exits the detention area north of the Home Depot retail facility. Clean fill shall be provided by the Contractor to fill the channel at this point during the pre-stage work; aggregate fill shall be covered with plastic so as to maintain efficacy of the diversion. Contractor shall add aggregate at this location as needed, as directed by the Engineer. The Contractor shall remove diversion and restore sight to original condition at the time when diversion is not necessary as directed by the Engineer.

### **MAINTENANCE OF ROADWAYS**

Effective: June 26, 2003

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work such as patching, intermittent resurfacing, and shoulder work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

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

### **CRITICAL PATH SCHEDULE**

Effective: February 10, 1995

The construction of this project will be planned and recorded with a conventional Critical Path Method (CPM) as specified in Article 108.02 of the Standard Specifications and the following:

The Contractor is responsible for preparing the initial schedule in the form of an activity on arrow diagram which shall include activity description and duration, two copies shall be submitted to the Engineer at the preconstruction meeting. The construction time, as determined by the schedule shall not exceed the specified contract time. The schedule shall be updated the first of each month, when there is a delay in completion of any critical activity, or when the contract is modified causing additions, deletion or revision of activities required.

As determined by CPM analysis, only delays in activities which affect milestone dates or contract completion dates will be considered for a time extension.

If the Contractor does seek a time extension of any milestone or contract completion date, he/she shall furnish documentation as required by the Engineer to enable him to determine whether a time extension is appropriate under the terms of the contract.

### **COMPLETION DATE PLUS WORKING DAYS FOR 2011**

Effective: October 22, 2010

The Contractor shall perform his work in such a manner that the PROJECT is complete on or prior to November 1, 2011. The PROJECT shall have Pre-Stage 1, 2, 3 and Staging & Traffic Control Plan Winter Shut Down finished except the landscape items for the PROJECT to be considered complete.

The Contractor will be allowed 10 working days after the November 1, 2011 completion date to complete landscaping items.

### **COMPLETION DATE (VIA CALENDAR DAYS) FOR N. 2ND FRONTAGE ROAD CLOSURE IN 2011**

Effective: October 28, 2010

The Contractor shall perform his work in such a manner that N. 2<sup>nd</sup> frontage road between IL 173 and Kohl's entrance is closed for a maximum of 14 consecutive calendar days. Pre-Stage 2 shall be finished and two-way traffic opened on N. 2<sup>nd</sup> frontage road before the work is considered complete.

The Completion Date will be determined by adding the specified number of calendar days to the date N. 2<sup>nd</sup> frontage road is closed. The Contractor will pick the date he/she will close N. 2<sup>nd</sup> frontage road.

**START DATE FOR 2012**

No work shall be started on this project until March 19, 2012.

**COMPLETION DATE (VIA CALENDAR DAYS) FOR N. 2ND FRONTAGE ROAD CLOSURE IN 2012**

Effective: October 28, 2010

The Contractor shall perform his work in such a manner that N. 2<sup>nd</sup> frontage road between IL 173 and Kohl's entrance is closed for a maximum of 14 consecutive calendar days. Stage 1B and the temporary pavement at the intersection of IL 173 & N. 2<sup>nd</sup> frontage road shall be finished and two-way traffic opened on east side of N. 2<sup>nd</sup> frontage road & Orlando Street before the work is considered complete.

The Completion Date will be determined by adding the specified number of calendar days to the date N. 2<sup>nd</sup> frontage road is closed. The Contractor will pick the date he/she will close N. 2<sup>nd</sup> frontage road.

**COMPLETION DATE (VIA CALENDAR DAYS) FOR ALPINE ROAD CLOSURE IN 2012**

Effective: October 28, 2010

The Contractor shall perform his work in such a manner that Alpine Road between IL 173 and Target's entrance is closed for a maximum of 14 consecutive calendar days. Stage 1C and the temporary pavement at the intersection of IL 173 & Alpine Road shall be finished and two-way traffic opened on east side of Alpine Road before the work is considered complete.

The Completion Date will be determined by adding the specified number of calendar days to the date Alpine Road is closed. The Contractor will pick the date he/she will close Alpine Road.

**COMPLETION DATE PLUS WORKING DAYS FOR 2012**

Effective: October 22, 2010

The Contractor shall perform his work in such a manner that the PROJECT is complete on or prior to November 1, 2012. The PROJECT shall have everything finished except the landscape items for the PROJECT to be considered complete.

The Contractor will be allowed 90 working days after the November 1, 2012 completion date to complete landscaping items.

**FURNISHED EXCAVATION**

Effective: July 1, 1994

Revised: October 28, 2010

The Furnished Excavation shall be measured by the truck load method. Prior to the start of work the Contractor and the Engineer shall agree to standard volume for the trucks utilized by the Contractor.

Suitable excavated materials from the project shall not be wasted without permission of the Engineer. Embankment and mechanical compaction will not be measured for payment.

This work shall be paid for at the contract unit price per Cubic Meter (Cubic Yard) for FURNISHED EXCAVATION.

## **MOWING**

This work consists of mowing all Seeding Class 1 and Class 2A at the completion of the project or before winter shut down. The vegetation must be at least 6" long before mowing. The vegetation shall be mowed to obtain a height of not more than 75mm (3 inches). All debris must be cleared from the right-of-way immediately after the mowing.

This work will be paid for at the contract unit price per Hectare (Acre) for MOWING.

## **TEMPORARY DITCH CHECKS**

This Special Provision revises Section 280 of the Standard Specifications for Road and Bridge Construction to eliminate the use of Aggregate Ditch Checks and hay or straw bales for Temporary Ditch Checks.

Revise second sentence of Article 280.04(a) Temporary Ditch Checks as follows: Temporary ditch checks shall be constructed with products from the Department's approved list except for the following hay or straw bales nor aggregate ditch checks.

## **COMPACTION OF POLYMERIZED HOT-MIX ASPHALT CONCRETE**

Effective: January 16, 2002

This work shall consist of furnishing a pneumatic tired roller as specified in Article 406, in addition to all other rollers specified in the Standard Specifications. The spray system shall be in good working order. The tires shall be in good condition and be constructed heavy enough to withstand 90 to 110 psi inflation pressures on a continual basis. An approved water based release agent shall be utilized on the tires similar to, but not limited to Tech Shield that effectively prevents mix adhesion. The dilution rate shall be as per manufacturer's recommendations. The mixture compaction temperature will be the maximum possible without experiencing surface damage to the mix caused by adhesion to the tires. The recommended range is from 200° to 260° Fahrenheit. This work shall be included in the cost of the polymerized Hot-Mix Asphalt concrete of the type and size specified.

## **HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50**

Effective: October 17, 2007

Description: This work shall consist of designing, producing and constructing a HMA Surface Course on a prepared base, according to Sections 406, 1030 and 1102 of the 2007 Standard Specifications, except as follows.

Materials: Surface Mixture 9.5 or 12.5, Mix C, N50 shall be placed on frontage roads, detours, Good Neighbor policy roads, temporary pavement, and runarounds. All others shall match the Mixture and N number of the adjacent mainline.

Required Field Tests: Density Acceptance at 95% - 102% of growth curve at the frequency indicated in Article 1030.05(d)(3).

This work will be paid for at the contract unit price per ton for Hot-Mix Asphalt Surface Course, Mix "C", N50.

## **MILLING RESTRICTIONS**

Effective: January 29, 2010

Milling operations shall be performed such that a vertical milled face no greater than 1½" exists between open lanes of traffic. This can be accomplished by one of the following treatment methods: 1) Make multiple passes with the mill, each one less the 1½"; 2) place a temporary wedge or have milled sloped edge with a minimum 1:3 slope; or 3) mill both lanes the same day so that no difference in elevation exists when the lanes are opened. Other methods may be used if approved by the Engineer prior to implementing the procedure. All short term pavement marking placed on milled surface shall be paint.

This work shall be included in the cost of HMA SURFACE REMOVAL, at the thickness specified.

## **REMOVAL OF EXISTING STRUCTURES**

Description: This work shall consist of the removal of existing structures according to Section 501 of the Standard Specifications and modified as described herein.

Removal of Existing Structures No. 1 refers to the removal of S.N. 101-2009, a 108.4' triple 8'x6' box culvert located on IL 173 at existing Sta. 9+65.4.

Removal of Existing Structures No. 2 refers to the removal of S.N. 101-6502, an 88.1' triple 6'x6' box culvert located on N. 2<sup>nd</sup> Frontage Road at Sta. 311+08.2.

Method of Measurement: The removal of existing structures will be measured per Article 501.06 of the Standard Specifications.

Basis of Payment: This work will be paid for per Article 501.07 of the Standard Specifications except add the following:

The cost to remove S.N. 101-2009 will be paid for as REMOVAL OF EXISTING STRUCTURES NO. 1.

The cost to remove S.N. 101-6502 will be paid for as REMOVAL OF EXISTING STRUCTURES NO. 2.

The earthwork, including that necessary to backfill the void created by removal of the existing structure, will not be paid for separately, but will be included in the cost of the removal of each respective structure described above.

## **WATER VALVES 8”**

The valves shall be 8 in. and suitable for ordinary waterworks service, intended to be installed in a normal position on buried pipe lines for water distribution systems. The 8-in. valves will include a valve box.

All valves, valve boxes, mounting, connections, painting, installation, and operation equipment will be supplied and installed in accordance with the Standard Specifications for Water and Sewer Main Construction in Illinois, current edition, and the Special Provisions stated on the Plans.

Materials: The minimum requirements for all valves shall, in design, material and workmanship, conform to the Standards of the latest AWWA C500.

Method of Measurement: The quantity of water valves to be paid for shall be the number of water valves placed in accordance with this Specification, accepted, and measured in place by the Resident Engineer.

Basis of Payment: This Item of work will be paid for at the contract unit bid price per Each for WATER VALVES 8”, which price shall be full compensation for all excavation, backfilling, valves and valve boxes, and valve operating wrench; for furnishing all materials, labor, equipment, and incidentals necessary to complete this Item of work.

## **FIRE HYDRANTS TO BE REMOVED**

This item shall consist of removing existing fire hydrant valves. The Contractor will disconnect the fire hydrants that are noted for removal on the plans or by the Engineer, and properly dispose off site.

## **CONSTRUCTION REQUIREMENTS**

Excavation shall be according to Section 550.04 of the Standard Specifications. Excavated holes that remain from the removal of the fire hydrants shall be backfilled. Backfilling shall be incidental to these items. The holes in the water main that remain as a result of each fire hydrants' removal will be covered with a small section of rolled, sheet steel or aluminum, extending a minimum of 6 in. beyond the hole in any direction and held securely in place until the backfill material is placed to prevent the controlled low strength material (CLSM) from escaping when the existing water main is filled. Existing thrust blocks and aggregate for the fire hydrants can remain in place. For fire hydrants located in bituminous pavement areas, the holes will be filled with CA-6 material and compacted in accordance to Section 209 of the Standard Specifications. A bituminous pavement shall be placed over the aggregate material with a paving material similar to the adjacent pavement. The bituminous pavement shall be flush with the surrounding pavement, once compacted, or the Contractor will be required to mill the surface of the material flush at his expense. For fire hydrants located in turf areas, the holes will be filled with soil material and compacted, graded, seeded, and mulched. Hydrants shall be removed to an elevation a minimum of 3' below finished grade and abandoned water lines shall be plugged to the satisfaction of the Engineer. Plugging of abandoned waterlines shall be incidental to these items.

Method of Measurement: The quantity of removed water valves to be paid for shall be the number of fire hydrants removed, disposed of, accepted, and measured in place by the Engineer.

Basis of Payment: Payment will be made at the contract unit price bid per Each for FIRE HYDRANTS TO BE REMOVED, for work completed and accepted by the Engineer. This price shall be full compensation for all materials and for all removal, disposal, backfilling (including all aggregate and bituminous materials), transporting, for furnishing all materials, labor, equipment, and incidentals necessary to complete this Item of work.

### **FIRE HYDRANT EXTENSION**

This work involves adjustment of the location of existing fire hydrants where indicated by extending the service pipe lead. Work shall be performed in accordance with Section 564 of the Standard Specifications as well as with the Standard Specifications for Water and Sewer Main Construction in Illinois. Contractor shall excavate around the hydrant as needed. When necessary the Contractor shall coordinate with the Village of Machesney Park to cut existing water service to the hydrant prior to work on the extension of the service pipe lead, and again to restore service after relocation of the hydrant.

This work will be measured in place and paid for at the contract unit price per Foot for FIRE HYDRANT EXTENSION. This cost shall include excavation as needed, removal and storage of the hydrant, excavation at the new location, setting of the hydrant at the new location, and all required couplings needed, thrust blocking, disposal of all excess excavated material, backfilling, compaction, and all other work necessary to relocate and reconnect the existing Hydrant Assembly.

### **DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED**

This work involves adjustment of existing domestic water service boxes where indicated. Work shall be performed in accordance with Section 565 of the Standard Specifications as well as with the Standard Specifications for Water and Sewer Main Construction in Illinois. Contractor shall excavate around service box as needed. Where possible the service box shall be adjusted by raising or lowering the box. If in the opinion of the Engineer this is not possible due to the condition of the existing water service box, the Contractor shall provide and install a new water service box and riser, and any couplings needed to tie into the existing water service line. When necessary the Contractor shall coordinate with the Village of Machesney Park to cut existing water service on each side of water service box, and install a new water service box in the existing water service line.

This work will be paid for at the contract unit price per Each for DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED. This cost shall include excavation as needed, adjustment of existing water service box, backfilling and compaction. If the Engineer directs the Contractor to provide a new water service box and riser due to poor condition of the existing water service box, this work and any extra materials needed will be measured and paid for as described in Article 109.04(b) of the Standard Specifications.

### **FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX**

This work involves providing and installing new fire hydrants with auxiliary valve and valve box where indicated. Work shall be performed in accordance with Section 564 of the Standard Specifications as well as with the Standard Specifications for Water and Sewer Main Construction in Illinois. Contractor shall excavate around the new hydrant location as needed.

When necessary the Contractor shall coordinate with the Village of Machesney Park to provide water service to the hydrant upon completion of the work.

This work will be measured in place and paid for at the Contract unit Price per Each for FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX. This cost shall include excavation as needed, the hydrant, valves and valve boxes, fittings and couplings as required, setting of the hydrant and valve box, thrust blocking, disposal of all excess excavated material, backfilling, compaction, and all other work necessary to connect the Hydrant Assembly.

### **DOMESTIC WATER SERVICE BOXES TO BE REMOVED**

This work involves removal of existing domestic water service boxes where indicated. Work shall be performed in accordance with Section 565 of the Standard Specifications as well as with the Standard Specifications for Water and Sewer Main Construction in Illinois. Contractor shall carefully excavate around service box as needed for removal; when necessary the Contractor shall coordinate with the Village of Machesney Park to cut existing water service on each side of water service box and reconnect the existing water service line if needed.

This work will be paid for at the contract unit price per Each for DOMESTIC WATER SERVICE BOXES TO BE REMOVED. This cost shall include excavation as needed, removal and disposal of the existing water service box, reconnection of the service line with required fittings and couplings, backfilling and compaction.

### **HOT MIX ASPHALT MEDIAN**

This item shall consist of hot mix asphalt median to a depth of 2 inches, mix C, N50, and shown on the plans, constructed in accordance with Section 406 & 606 of the Standard Specifications and as directed by the Engineer.

Method of Measurement. This work will be measured for payment in place and quantity computed in square feet.

Basis of Payment. This work will be paid for at the contract unit price per Square Foot for HOT MIX ASPHALT MEDIAN, which price shall be payment in full for all labor, equipment, materials necessary to complete the work as specified herein. Aggregate fill between top of sub-base granular material and bottom of the HMA Median shall not be paid separately but will be included in the cost of HOT MIX ASPHALT MEDIAN.

### **TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED**

Description: This work shall consist of furnishing and erecting Traffic Barrier Terminal, Type 1 (Special) Flared.

Materials: The materials shall be according to Article 631.02 of the "Standard Specifications".

General: The work shall be performed according to Section 631 of the "Standard Specifications" and the following:

Method of Measurement: The Traffic Barrier Terminal, Type 1 (Special) Flared will be measured for payment, complete in place, in units of each, according to Article 631.12 of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per Each for TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED.

## **GUARDRAIL REMOVAL**

Effective August 20, 1990

Revised August 26, 1997

This work shall be done according to Section 632 of the Standard Specifications except that all removed guardrail will become the property of the Contractor.

This work will be paid for at the contract unit price per Meter (Foot) for GUARDRAIL REMOVAL measured from center-to-center of end post.

## **ENGINEER'S FIELD OFFICE TYPE A**

Effective: June 1, 2009

Revise Article 670.02 of the Standard Specifications to read:

**"670.02 Engineer's Field Office Type A.** Type A field offices shall have a minimum ceiling height of 7 ft (2 m) and a minimum floor space 450 sq ft (42 sq m). The office shall be provided with sufficient heat, natural and artificial light, and air conditioning.

The office shall have an electronic security system that will respond to any breach of exterior doors and windows. Doors and windows shall be equipped with locks. Doors shall also be equipped with dead bolt locks or other secondary locking device.

Windows shall be equipped with exterior screens to allow adequate ventilation. All windows shall be equipped with interior shades, curtains, or blinds. Adequate all-weather parking space shall be available to accommodate a minimum of ten vehicles.

Suitable on-site sanitary facilities meeting Federal, State, and local health department requirements shall be provided, maintained clean and in good working condition, and shall be stocked with lavatory and sanitary supplies at all times.

Sanitary facilities shall include hot and cold potable running water, lavatory and toilet as an integral part of the office where available. Solid waste disposal consisting of two waste baskets and an outside trash container of sufficient size to accommodate a weekly provided pick-up service.

In addition, the following furniture and equipment shall be furnished.

- (a) Four desks with minimum working surface 42 x 30 in. (1.1 m x 750 mm) each and five non-folding chairs with upholstered seats and backs.
- (b) One desk with minimum working surface 48 x 72 in. (1.2 x 1.8 m) with height adjustment of 23 to 30 in. (585 to 750 mm).
- (c) One four-post drafting table with minimum top size of 37 1/2 x 48 in. (950 mm x 1.2 m).

The top shall be basswood or equivalent and capable of being tilted through an angle of 50 degrees. An adjustable height drafting stool with upholstered seat and back shall also be provided.

- (d) Two free standing four drawer legal size file cabinet with lock and an underwriters' laboratories insulated file device 350 degrees one hour rating.
- (e) One 6 ft (1.8 m) folding table with six folding chairs.
- (f) One equipment cabinet of minimum inside dimension of 44 in. (1100 mm) high x 24 in. (600 mm) wide x 30 in. (750 mm) deep with lock. The walls shall be of steel with a 3/32 in. (2 mm) minimum thickness with concealed hinges and enclosed lock constructed in such a manner as to prevent entry by force. The cabinet assembly shall be permanently attached to a structural element of the field office in a manner to prevent theft of the entire cabinet.
- (g) One refrigerator with a minimum size of 16 cu ft (0.45 cu m) with a freezer unit.
- (h) Two electric desk type tape printing calculator.
- (i) A minimum of two communication paths. The configuration shall include:
  - (1) Internet Connection. An internet service connection using telephone DSL, cable broadband, or CDMA wireless technology. Additionally, an 802.11g/N wireless router shall be provided, which will allow connection by the Engineer and up to four Department staff.
  - (2) Telephone Lines. Two separate telephone lines, one to be set up for the exclusive use of the State supplied fax machine.
- (j) One plain paper copy machine capable of reproducing prints up to 11 x 17 in. (280 x 432 mm) with an automatic feed tray capable of storing 30 sheets of paper. Letter size and 11 x 17 in. (280 x 432 mm) paper shall be provided.
- (k) One telephone, with touch tone, where available, and a digital telephone answering machine, for exclusive use by the Engineer.
- (l) Cellular phone with a minimum of 500 anytime calling minutes per month for use by the site resident engineer/technician.
- (m) One electric water cooler dispenser.
- (n) One first-aid cabinet fully equipped.
- (o) One post mounted rain gauge, located on the project site for each 5 miles (8 km) of project length."

Revise the last sentence of the first paragraph of Article 670.07 of the Standard Specifications to read:

"This price shall include all utility costs and shall reflect the salvage value of the building or buildings, equipment, and furniture which become the property of the Contractor after release by the Engineer, except that the Department will pay that portion of the monthly long distance telephone bills that, when combined, exceed \$150."

## **WORK ZONE PAVEMENT MARKING AND REMOVAL**

Effective: December 29, 2008

This work shall consist of installing and removing temporary pavement marking according to Section 703 of the Standard Specifications and the following:

Paint pavement marking shall be used on the final wearing surface when the temporary pavement marking will conflict with the permanent pavement marking such as on tapers, crossovers and lane shifts.

All temporary paint on the final wearing surface shall be removed according to Article 1101.12 Water Blaster with Vacuum Recovery and the applicable portions of Section 703 of the Standard Specifications and as described herein.

Add the following paragraph to Article 1101.12 of the Standard Specifications.

For the high pressure water spray, the pressure at the nozzle shall be approximately 25,000 psi (172,000 kPa) with maximum flow rate of 15 gal/min (56 L/min). The nozzle shall be in close proximity to the pavement surface.

## **BOX CULVERT TO BE CLEANED**

This work shall consist of cleaning out box culverts, as shown on the plans and scheduled as shown in the Summary of Quantities. The box culvert shall be cleaned to their original flowline, using a method approved by the Engineer. The material removed shall be disposed of according to Article 202.03 of the Standard Specifications or it may be used on the job to flatten foreslopes if approved by the Engineer.

This work will be paid for at the contract unit price per Each for BOX CULVERT TO BE CLEANED.

## **BUILDING REMOVAL NO. 1**

This item consists of the removal and proper disposal of an unattached garage located at the residential property adjacent on the west to the Precision Auto Wash, 690 Russ Street in Machesney Park. The removal shall include the building, foundation and any appurtenances as directed by the Engineer. Removal of any debris found in the building or on the property shall be included in the cost of the building removal as directed by the Engineer. The excavation shall be backfilled using suitable backfill and to the grades directed by the Engineer. The granular backfill shall meet the gradation requirements of Article 1003.04 or Article 1004.05 of the Standard Specifications.

This work described shall be paid for at the contract unit price per Lump Sum for BUILDING REMOVAL NO. 1.

## **BUILDING REMOVAL NO. 2**

This item consists of the removal and proper disposal of an unattached outbuilding (storage shed) located at the residential property adjacent on the west to the Precision Auto Wash, 690 Russ Street in Machesney Park. The removal shall include the building, foundation and any appurtenances as directed by the Engineer. Removal of any debris found in the building or on the property shall be included in the cost of the building removal as directed by the Engineer. The excavation shall be backfilled using suitable backfill and to the grades directed by the Engineer. The granular backfill shall meet the gradation requirements of Article 1003.04 or Article 1004.05 of the Standard Specifications.

This work described shall be paid for at the contract unit price per Lump Sum for BUILDING REMOVAL NO. 2.

## **BUILDING REMOVAL NO. 3**

This item consists of the removal and proper disposal of a strip mall building from parcel number 08-20-101-006, located north of Ralston Road in the Village of Machesney Park. The west end of the building is a one-story frame building with two local businesses: "Hair Affair Salon" at 1016 Ralston Road and "3B's Cafe" at 1018 Ralston Road. The east end of the building is a masonry/metal building with a commercial garage with multiple entrances for auto service titled "Carz R Us", located at 1028 Ralston Road. At the back of the building are approximately 4 attached prefabricated sheds which will be also removed as part of this work. The removal shall include all buildings, foundations, hydraulic lifts, underground storage tanks, and any appurtenances as directed by the Engineer. Removal of any debris found in the building or on the property shall be included in the cost of the building removal as directed by the Engineer. The excavation shall be backfilled using suitable backfill and to the grades directed by the Engineer. The granular backfill shall meet the gradation requirements of Article 1003.04 or Article 1004.05 of the Standard Specifications.

The building located at 1020 Ralston Road, Machesney Park, IL 61115 known as Carz R Us Auto Repair & Tires cannot be demolished prior to December 31, 2011. This will also include removal of access to the business and parking lot.

This work described shall be paid for at the contract unit price per Lump Sum for BUILDING REMOVAL NO. 3.

## **SEGMENTAL CONCRETE BLOCK WALL**

Description: This work shall consist of designing, furnishing and constructing a KEYSTONE Compac Unit Retaining Wall System, in accordance with the Standard Specifications and the manufacturer's specifications. No alternate walls will be considered. The maximum wall height will be 7 feet as measured from the top of block elevation down to the finished grade line at the wall face. Contact information for the manufacturer:

Keystone Retaining Wall Systems, a CONTECH Company  
4444 West 78th Street | Minneapolis, MN 55435  
Off: 1-800-747-8971 or 952-897-1040 ext. 201 | Fax: 952-897-3858

General: the wall shall consist of a leveling pad, pre-cast concrete blocks, geogrid soil reinforcement, select granular backfill, and HDPE liner. The materials, fabrication and construction of the wall components are subject to approval by the Engineer. The Engineer reserves the right to obtain random samples for material testing. The wall shall be designed and constructed according to the lines, grades, design parameters and dimensions shown on the contract plans and approved shop plans. Work will include preparing foundation soil, furnishing and installing leveling pad, unit drainage fill, backfill to the lines and grades shown on the contract plans and approved shop plans and furnishing and installing HDPE liner as shown on the plans or directed by the Engineer. Work will also include furnishing and installing geogrid reinforcement of the type, size, location and lengths designated on the contract plans and approved shop drawings.

Submittals: The wall supplier shall submit design computations and shop plans to the Engineer. The shop plans shall be sealed by an Illinois Licensed Professional Engineer and shall include all details, dimensions, quantities, and cross sections necessary to construct the wall and shall include, but not be limited to, the following items:

1. Plan, elevation, and cross section sheet(s) for each wall showing the following:
  - a. A plan view of the wall indicating the offsets from the construction centerline to the first course of blocks at all changes in horizontal alignment. These shall be calculated using the offsets to the front face of the block shown on the contract plans and the suppliers proposed wall batter. The plan view shall indicate bottom (and top course of block when battered), the excavation and select granular backfill limits as well as any soil reinforcing required by the design. The centerline of any drainage structure or pipe behind or passing through/under the wall shall also be shown.
  - b. An elevation view of the wall, indicating the elevation and all steps in the top course of blocks along the length of the wall. The top of these blocks shall be at or above the theoretical top of block line shown on the contract plans. This view shall also show the steps and proposed top of leveling pad elevations as well as the finished grade line at the wall face specified on the contract plans. These leveling pad elevations shall be located at or below the theoretical top of leveling line shown on the contract plans. The location, size, and length of any soil reinforcing connected to the blocks shall be indicated.
  - c. Typical cross section(s) showing the limits of the select granular backfill, soil reinforcement if used in the design. The right-of-way limits shall be indicated as well as the proposed excavation, cut slopes, and the elevation relationship between existing ground conditions and proposed grades.
  - d. All general notes required for constructing the wall.
2. All details for the leveling pads, including the steps, shall be shown. The theoretical top of the leveling pad shall either be below the anticipated frost depth or 2 feet below the finished grade line at the wall face, whichever is greater; unless otherwise shown on the plans. The minimum leveling pad thickness shall be 6".
3. Cap blocks shall be used to cover the top of the standard block units. The top course of blocks and cap blocks shall be stepped to satisfy the top of block line shown on the contract plans.

4. All details of the block and/or soil reinforcement placement around all appurtenances located behind, on top of, or passing through the wall shall be clearly indicated. Any modifications to the design of these appurtenances to accommodate a particular design arrangement shall also be submitted.
5. All details of the blocks, including color and texture shall be shown. The exterior face shall preferably be straight, textured with a "split rock face" pattern, and dark gray in color unless otherwise stated on the plans.
6. All block types (standard, cap, corner, and radius turning blocks) shall be detailed showing all dimensions.
7. All blocks shall have alignment/connection devices such as shear keys, leading/trailing lips, or pins. The details for the connection devices between adjacent blocks and the block to soil reinforcement shall be shown. The block set back or face batter shall be limited to 20 degrees from vertical, unless otherwise shown by the plans.

The initial submittal shall include 3 sets of prints of the detail shop plans and 1 set of calculations. One set of plans will be returned to the Contractor with any corrections indicated. After approval, the Contractor shall furnish the Engineer with 8 sets of corrected plan prints for distribution. No work or ordering of materials for the structure shall be done by the Contractor until the submittal has been approved in writing by the Engineer.

Materials: The materials shall meet the following requirements:

1. Pre-cast Concrete Block: The block proposed for use shall be produced according to the Department's Policy Memorandum "Quality Control/ Quality Assurance Program for Precast Concrete Products", and shall conform to the requirements of ASTM C 1372 except as follows:
  - a. Fly ash shall be according to Article 1010.01 and Article 1010.03 of the "Standard Specifications".
  - b. Ground granulated blast-furnace slag shall be according Section 1016 of the "Standard Specifications".
  - c. Aggregate shall be according to Article 1003.02 and Article 1004.02 of the "Standard Specifications", with the exception of gradation. Chert gravel may be used based on past in-service satisfactory performance, in the environment in which the product was used.
  - d. Water shall be according to Section 1002 of the "Standard Specifications".
  - e. Testing for freeze-thaw durability will not be required. However, unsatisfactory field performance as determined by the Department will be cause to prohibit the use of the block on Department projects.
2. Select Granular Backfill: The material behind the blocks and above a 1:1 slope extending upward from either the back of the bottom block or soil reinforcement (whichever is greater) shall consist of either a coarse aggregate according to Article 1004.06(a) of the "Standard Specifications", or a fine aggregate according to the first sentence of Article 1003.04(a) of the "Standard Specifications". The aggregate used shall also meet the following:

|                               |   |
|-------------------------------|---|
| a. Coarse Aggregate Gradation | CA 6 thru CA 16 (Article 1004.01(c))      |
| b. Fine Aggregate Gradation   | FA 1, FA 2, or FA 20 (Article 1003.01(c)) |
| c. Coarse Aggregate Quality   | Minimum Class C (Article 1004.01(b))      |
| d. Fine Aggregate Quality     | Minimum Class C (Article 1003.01(b))      |
| e. Internal Friction Angle    | 34° minimum (AASHTO T 236)                |
| f. pH                         | 4.5 to 9 (AASHTO T 289)                   |

When a fine aggregate is selected, the rear of all block joints shall be covered by a non-woven needle punch geotextile filter material according to Article 1080.05 of the "Standard Specifications", and shall have a minimum permeability according to ASTM D 4491 of 0.008 cm/sec. All fabric overlaps shall be 6" and non-sewn. As an alternative to the geotextile, a coarse aggregate shall be placed against the back face of the blocks, to create a minimum 12" wide continuous gradation filter to prevent the select fill material from passing through the block joints.

3. Leveling pad: The material shall be either Class SI concrete according to Article 1020.04 of the "Standard Specifications", or compacted coarse aggregate according to Article 1004.04, (a) and (b) of the "Standard Specifications". The compacted coarse aggregate gradation shall be CA 6 or CA 10.
4. Soil Reinforcement: If soil reinforcement is required by the approved design, the Contractor shall submit a manufacturer's certification for the soil reinforcement properties which equals or exceeds those required in the design computations. The soil reinforcement shall be manufactured from high density polyethylene (HDPE) uniaxial or polypropylene biaxial resins or high tenacity polyester fibers with a PVC coating, stored between -20° and 140° F. The following standards shall be used in determining and demonstrating the soil reinforcement capacities:

|              |   |
|--------------|---|
| ASTM D-638   | Test Method for Tensile Properties of Plastic                                     |
| ASTM D-1248  | Specification for Polyethylene Plastics Molding and Extrusion Materials           |
| ASTM D-4218  | Test Method for Carbon Black Content in Polyethylene Compounds                    |
| ASTM D-5262  | Test Method for Evaluating the Unconfined Tension Creep Behavior of Geosynthetics |
| GG1-Standard | Test Method for Geogrid Rib Tensile Strength                                      |
| GG2-Standard | Test Method for Geogrid Junction Strength   |
| GG4-Standard | Practice for Determination of the Long Term Design Strength of Geogrid            |
| GG5-Standard | Practice for Evaluating Geogrid Pullout Behavior                                  |

Design Criteria: The design shall be according to AASHTO Specifications and commentaries for Earth Retaining Walls or FHWA Publication No. HI-95-038, SA-96-071 and SA-96-072. The wall supplier shall be responsible for all internal stability aspects of the wall design.

Internal stability design shall insure that adequate factors of safety against overturning and sliding are present at each level of block. If required by design, soil reinforcement shall be utilized and the loading at the block/soil reinforcement connection as well as the failure surface must be indicated. The calculations to determine the allowable load of the soil reinforcement and the factor of safety against pullout shall also be included. The analysis of settlement, bearing capacity, and overall slope stability are the responsibility of the Department.

External loads such as those applied through structure foundations, from traffic or railroads, slope surcharge etc., shall be accounted for in the internal stability design. The presence of all appurtenances behind, in front of, mounted upon, or passing through the wall volume such as drainage structures, utilities, structure foundation elements, or other items shall be accounted for in the internal stability design of the wall.

Construction Requirements: The Contractor shall obtain technical assistance from the supplier during wall erection to demonstrate proper construction procedures and shall include all costs related to this technical assistance in the unit price bid for this item.

The foundation material for the leveling pad and select granular backfill volume shall be graded to the design elevation and compacted according to Article 205.05 of the "Standard Specifications", except the minimum required compaction shall be 95 percent of the standard laboratory density. Any foundation soils found to be unsuitable shall be removed and replaced as directed by the Engineer and shall be paid for according to Article 109.04 of the "Standard Specifications".

The select granular backfill lift placement shall closely follow the erection of each course of blocks. All aggregate shall be swept from the top of the block prior to placing the next block lift. If soil reinforcement is used, the select granular backfill material shall be leveled and compacted before placing and attaching the soil reinforcement to the blocks. The soil reinforcement shall be pulled taut, staked in place, and select fill placed from the rear face of the blocks outward. The lift thickness shall be the lesser of 10" loose measurement or the proposed block height.

The select granular backfill shall be compacted according to Article 205.05 of the "Standard Specifications", except the minimum required compaction shall be 95 percent of the standard laboratory density. Compaction shall be achieved using a minimum of 3 passes of a lightweight mechanical tamper, roller, or vibratory system. The top 12" of backfill shall be a cohesive, impervious material capable of supporting vegetation, unless other details are specified on the plans.

The blocks shall be maintained in position as successive lifts are compacted along the rear face of the block. Vertical, horizontal, and rotational alignment tolerances shall not exceed 1/2" when measured along a 10' straight edge.

Method of Measurement: Segmental Concrete Block Wall will be measured in place and the area of the wall face computed in square feet. The wall face is measured from the top of block line to the theoretical top of the leveling pad for the length of the wall in a vertical plane, as shown on the contract plans.

Basis of Payment: This work will be paid for at the contract unit price per Square Foot for SEGMENTAL CONCRETE BLOCK WALL. Structural excavation will be paid for separately. The fill, leveling pad construction, geogrid, and HDPE liner shall be considered incidental to this work and will not be paid for separately.

### **CULVERT TO BE CLEANED**

Effective: April 22, 1991

Revised: April 18, 1994

This work shall consist of cleaning out culverts specified to their original flowline, using a method approved by the Engineer.

The material removed shall be disposed of according to Article 202.03 of the Standard Specifications or it may be used on the job to flatten foreslopes if approved by the Engineer.

Basis of Payment: This work will be paid for at the contract unit price per Each for CULVERT TO BE CLEANED. For multi-cell culverts, each barrel will be measured once for payment.

## **DRYWELL**

This work shall be done in accordance with Section 602 of the Standard Specifications, as shown on the plans and the detail for "drywell", as modified herein and as directed by the Engineer.

The drywell shall be a precast concrete unit with a diameter of 6' and total depth of 8'. The depth can be achieved by assembling 2 or 3 pieces of pipe that equal the desired depth. Any joints shall be sealed in accordance with Section 602. The unit shall be cast with rectangular or square openings in the pipe wall evenly spaced around the pipe and along the depth of the drywell to facilitate storm water drainage into the backfill material around the drywell. The openings shall be sized appropriately for the aggregate material specified. The drywell shall be wrapped in Supac 4NP Fabric Barrier or approved equal nonwoven material to prevent fines from infiltrating the drywell. The same fabric barrier shall be placed around the limits of the excavation and below the topsoil for the finish grade. 12" of CA1 shall be used below the invert of the drywell and CA1 shall be used as backfill to fill the void between the drywell and the limits of the excavation. The drywell will have a precast concrete flat top meeting the requirements of DOT standard drawing 602406 and a type 1 frame and lid meeting the requirements of IDOT standard drawing 604001. At locations shown in the plans, openings for pipe culverts or storm sewer intended to drain into the drywell shall be cast into the precast drywell unit. Upon completion of the storm sewer or pipe culvert installation, the Contractor shall seal around the opening in accordance to Section 602 and as directed by the Engineer.

Basis of Payment: This work will be paid for at the contract unit price per Each for DRYWELL and will include excavation, all materials, labor and incidentals necessary to complete this Item of work.

## **FENCE REMOVAL**

This work shall be according to the applicable sections of the Standard Specifications except as indicated below:

Description. Remove and correctly dispose of existing fence, post and foundation (including concrete) and all miscellaneous appurtenances regardless of type and location.

Materials. Provide backfill material, consisting of either excavated material or aggregate to meet a CA-6 gradation, in all fence post holes to remain after foundation removal to a depth of 4 inches below finish grade as directed and approved by the Engineer. Material shall be thoroughly compacted meeting the approval of the Engineer.

## **CONSTRUCTION REQUIREMENTS**

General. Remove and correctly dispose of existing fence, post and foundation (including concrete) and all miscellaneous appurtenances regardless of type and location.

The area surrounding each existing fence post foundation shall be exposed for removal of the foundation to the satisfaction of the Engineer. Material shall be thoroughly compacted meeting the approval of the Engineer.

Method of Measurement. This work will be measured for payment in feet.

Basis of Payment This work will be paid for at the contract unit price per Foot for FENCE REMOVAL, which price shall include all of the above.

## **FURNISHING AND INSTALLING PROPERTY MARKERS**

Effective: July 1, 1994

Revised: January 30, 2008

This work shall consist of locating, protecting, preserving and relocating property markers, monuments or pins which are discovered and which will be disturbed in the normal course of construction. An Illinois Registered Land Surveyor will relocate the markers, monuments or pins to the new or relocated right-of-way line in such a location as to legally define the location of the new or reestablished property corner(s). The Contractor shall be required to furnish one copy of the final plat or plats to the State upon completion of the work.

The Surveyor shall place as a minimum a 900 mm (36") x 19 mm (3/4") round iron pin for the property marker. This work will be paid for at the contract unit price Each for FURNISHING AND INSTALLING PROPERTY MARKERS.

## **GEOTECHNICAL REINFORCEMENT**

Revised September 1, 2004

### Biaxial Geogrid Flat Installation

This work consists of furnishing and installing an integrally-formed polypropylene geotechnical grid reinforcement material. 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 specifications.

Materials: Each layer of geogrid shall conform to the property requirements listed below. Multilayer geogrid and multiple layers of lesser strength geogrids will not be accepted.

### Reinforcement and Interlock

| <u>Property</u>                     | <u>Test Method</u> | <u>Value</u>          |
|-------------------------------------|--------------------|-----------------------|
| <u>Tensile Modulus:</u>             |                    |                       |
| ▪ True Tensile Modulus              | ASTMD 6637         | 17,000 lb./ft. (Min.) |
| ▪ True Tensile Strength @ 2% Strain |                    | 280 lb./ft. (Min.)    |
| ▪ True Tensile Strength @5% Strain  |                    | 580 lb./ft. (Min.)    |

Apertures:

- |                      |                       |                           |
|----------------------|-----------------------|---------------------------|
| ▪ Aperture Stability | USACE*                | 2.7 in. – lb./deg. (min.) |
| ▪ Open Area          | COE Method Modified** | 70% (Nom.)                |
- \* Resistance to in-plane rotational movement measured by applying a 20 kg-cm moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter (U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity).
- \*\* Percent open area measured without magnification by Corps of Engineers method as specified in CW 02215 Civil Works Construction Guide, November, 1977.

Structural Integrity:

- |                       |                    |                    |
|-----------------------|--------------------|--------------------|
| ▪ Flexural Stiffness  | ASTM D-5732–95 *** | 0.2 in.-lb. (Min.) |
| ▪ Junction Efficiency | GRI GG2-87****     | 90% (Min.)         |
- \*\*\* Resistance to bending force measured via ASTM D-5732-95, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs (as a “ladder), and of length sufficiently long to enable measurement of the overhang dimension. The overall Flexural Stiffness is calculated as the square root of the product of machine-and cross-machine-direction Flexural Stiffness values.
- \*\*\*\* Load transfer capability measured via GRI-GG2-87. Expressed as a percentage of ultimate tensile strength.

Material

|               |  |             |
|---------------|--|-------------|
| Polypropylene | ASTM D 1401<br>Group I/Class 1/Grade 2 | 98% (Min.)  |
| Carbon Black  | ASTM 4218                              | 0.5% (Min.) |

The supplier should provide a certification that their product meets the above requirements.

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

Geogrid shall be delivered to the jobsite in such a manner as to facilitate handling and incorporation into 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, sharp objects and trees. Tree stumps shall be cut to the level of the ground surface. If the stumps cannot be cut to the ground level, they shall be completely removed. In the case of subgrades, 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 pavement. Fabric of insufficient width or length to fully cover the specified area shall be lapped a minimum of 600 mm (24 inches).

Installation: 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 Special Provisions, the granular material, shall be placed to the full required thickness and compacted.

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 expense, including costs of removal and replacement of the granular material.

Torn Geogrid 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 least 600 mm (2 feet) larger than the largest dimension of the tear and it shall be weighted or otherwise secured to prevent the granular material from causing lap separation.

Method of Measurement: Geotechnical Reinforcement will be measured in square yards for the surface area placed. The excavation, replacement and compaction of the granular layer shall be paid for separately. Each layer of geogrid will be paid for separately.

Basis of Payment: This work will be measured in place and the area computed in square yards. The work will be paid for at the contract unit price per Square Yard for GEOTECHNICAL REINFORCEMENT.

## **IMPACT ATTENUATORS, TEMPORARY**

This work shall consist of installing Temporary Impact Attenuators according to the BDE Special Provisions. Temporary sand module systems that are not located on pavement or a bituminous shoulder shall be placed on a 6" base. The base can be either bituminous or concrete.

The bituminous base shall be constructed with incidental bituminous surfacing according to Section 408 of the specifications book. The concrete base shall be constructed using class SI concrete.

The temporary impact attenuator and base shall be removed after the completion of work. The area under the base shall be restored to the original condition.

The cost of the base will be included in the contract unit price per Each for IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), IMPACT ATTENUATORS, TEMPORARY (FULLY-REDIRECTIVE, NARROW) or IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW) of the test level specified.

## **IMPACT ATTENUATORS, RELOCATE**

This work shall be done according to the Special Provision Impact Attenuators, Temporary and as contained herein.

Temporary Impact Attenuators removed from one stage and stored temporarily to be used later on a subsequent stage anywhere within the project limits shall be measured for payment as Each for relocation of the impact attenuator type at the test level specified. This includes Temporary Impact Attenuators not stored on the right-of-way and Temporary Impact Attenuators stored for the winter or other long periods of shutdown.

The work shall be paid for at the contract unit price per Each for IMPACT ATTENUATORS, RELOCATE (FULLY-REDIRECTIVE), IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE) or IMPACT ATTENUATORS, RELOCATE (SEVERE USE, NARROW) of the test level specified.

## **STORM SEWER WATER MAIN**

Effective: June 12, 1997

Description: This work shall consist of furnishing and installing water main quality pipe at the locations shown on the plans.

Materials:

- a) Ductile iron water main Class 52

Joints for Ductile Iron pipe shall be:

- 1. Mechanical Joints - AWWA C111 and C600
- 2. Push-On-Joints - AWWA C111 and C600

- b) Polyvinyl Chloride (PVC) Class 12454B (PVC 1120) or Class 12454C (PVC 1220).  
Schedule 40 is required for 8" diameter and schedule 80 for larger sizes.

## **CONSTRUCTION REQUIREMENTS**

The storm sewer water main shall be installed according to the applicable portions of Section 550 and 561 of the Standard Specifications and the Standard Specifications for Water and Sewer Main Construction. In case of conflict between the Standard Specifications, the Standard Specifications for Water and Sewer Main Construction in Illinois shall take precedence and shall govern.

No testing or disinfections of the newly laid storm sewer water main will be required. A water-tight connection is required between the storm sewer water main and the storm sewer.

Method of Measurement: Storm sewer water main of the various diameters will be measured for payment feet, measured in place.

Basis of Payment: This work will be paid for at the contract unit price per Foot for STORM SEWER WATER MAIN, of the type and diameter specified.

## **TEMPORARY PAVEMENT**

Effective: October 17, 2007

This work shall consist of placing a Hot-Mix Asphalt Surface Course or Portland Cement Concrete Base Course and aggregate base to serve as a temporary widening or a runaround at the locations shown on the plans. The choice of material to be used for this item is left to the Contractor to choose from the following options:

### **HOT-MIX ASPHALT OPTION**

This work shall consist of placing and compacting 12 inches of Sub-base Granular Material, Type A and constructing 7 inches of HOT-MIX ASPHALT SURFACE COURSE to serve as a temporary widening or runaround at the location shown on the plans. If the thickness is 3 inches or more, it should be placed in 2 lifts.

Description: This work shall consist of designing, producing and constructing a HMA Surface Course on a prepared base, according to Sections 311, 406, 1030 and 1102 of the 2007 Standard Specifications, except as follows.

Materials: Surface Mixture 9.5 or 12.5, Mix C, N50 shall be used.

Required Field Tests: Density Acceptance at 95% - 102% of growth curve at the frequency indicated in Article 1030.05(d)(3).

All work and materials required to complete the work listed above shall be included in the contract unit cost per Square Yard for TEMPORARY PAVEMENT.

The hot-mix asphalt and sub-base shall be removed after the final stage is completed. Removal shall be paid for separately at the contract unit price per Square Yard for TEMPORARY PAVEMENT REMOVAL.

### **PORTLAND CEMENT CONCRETE OPTION**

This work shall consist of placing and compacting 4 inches of Sub-base Granular Material, Type A and constructing an 8 inch thick Portland Cement Concrete Base Course to serve as a temporary runaround at the location shown on the plans. The minimum width shall be 3 feet. This work shall be completed according to Sections 311 and 353 of the Standard Specifications.

Pavement fabric shall not be utilized in the base course.

The Contractor shall saw longitudinal joints in base courses wider than 16 feet, according to the Standard 420001, except that uncoated steel tie bars may be used instead of epoxy coated tie bars. These joints shall not be sealed.

The Contractor shall saw transverse joints in the base course at 20' centers according to the detail for Sawed Construction Joints in Standard 420001, except that dowel bars are not required. These joints shall not be sealed.

All work as listed above, including tie bars, sawed joints and all other required materials shall be included in the contract unit price per Square Yard for TEMPORARY PAVEMENT.

The base course and sub-base shall be removed after the final stage is completed. Removal shall be paid for separately at the contract unit price per Square Yard for TEMPORARY PAVEMENT REMOVAL.

## **SLOTTED DRAIN**

This work consists of furnishing and installing slotted drains at the locations shown in the plans.

Slotted drain shall be corrugated steel pipe conforming with the applicable requirements of Section 542 of the Standard Specifications, the details shown in the plans and as described herein.

The pipe shall be cut along the longitudinal axis and reinforced with a grate of solid spacer bars. The grate assembly shall be made from structural steel suitably welded to form the open slot and shall be hot-dip galvanized to meet the provisions of AASHTO M 111. The slot depth shall be as shown in the plans. The slot width shall be 1-3/4 inches (44 mm). Spacer bars shall be 3/16 inch (4.7 mm) solid web spacers on 6 inch (150 mm) centers for the full depth of the grating.

Joints and couplers for slotted drain shall provide ring compression capability across the full width of the joint. The bank coupler shall butt up against the grating. A single band bolt shall be provided for band tensioning.

The slotted drain shall be encased in Class SI concrete according to the details shown in the plans. The slotted drain must be properly positioned in the trench prior to backfilling.

After the slotted drain has been leveled to grade, Class SI concrete conforming to Section 1020 of the Standard Specifications, shall be used as backfill. The concrete backfill shall be placed in 6-inch maximum lifts, with each lift being allowed to harden prior to placing the next lift until the concrete reaches the mid-line of the pipe. The remaining concrete backfill shall be placed to the pavement grades shown on the plans.

Method of Measurement. This work will be measured in feet (meters) in place.

Basis of Payment. This work will be paid for at the contract unit price per Foot (Meter) for SLOTTED DRAIN, of the pipe diameter and slot height specified, which price shall include all accessories required for connecting the slotted drain pipes and connections to drainage structures or other storm sewer where necessary. Concrete will not be paid for separately.

## **WATER MAIN REMOVAL**

This work will consist of the removal of existing water mains, fittings, valves, meters, boxes and associated appurtenances associated with construction of the proposed water main/services and storm sewer as shown on the plans and directed by the Engineer.

Basis of Payment: This work shall be paid for at the contract unit price per Foot for WATER MAIN REMOVAL, regardless of size of material encountered, which price shall include all material, labor and equipment necessary to complete the work to the satisfaction of the Engineer. The removal of fittings, valves, meters, boxes and associated appurtenances shall not be paid for separately, but considered included in the cost of Water Main Removal.

## **WOOD FENCE TO BE REMOVED AND RE-ERECTED**

The Contractor shall perform this work according to Section 665 of the Standard Specifications as approved by the Engineer. The existing wood fence shall carefully be removed, and shall be replaced at the location as shown on the plans and approved by the Engineer. The relocated fence shall be in its original condition as approved by the Engineer.

This work will be paid for at the contract unit price per Foot for WOOD FENCE TO BE REMOVED AND RE-ERECTED.

## **RETAINING WALL REMOVAL**

Description: This work will be performed at locations indicated on the plans, in accordance with Section 501 of the Standard Specifications, with the following exceptions:

Under 501.04, Complete Removal of Structures, replace the first paragraph with the following: "Retaining walls and their foundation pads will be removed in their entirety."

Under 501.06, Method of Measurement, add the following:

"Existing retaining walls to be removed as indicated on the plans are to be measured in place in feet. The length measured will be the total length along the top of each wall; vertical displacements and gaps between walls are not included."

Under 501.07, Basis of Payment, add the following paragraph:

"Removal of existing retaining walls will be paid for at the contract unit price per foot for RETAINING WALL REMOVAL."

Basis of Payment: This work will be paid for at the contract unit price per Foot for RETAINING WALL REMOVAL.

## **REMOVE EXISTING FLARED END SECTION**

Description. This work shall consist of the removal of a flared end section at locations where the pipe is not being removed.

At locations where the pipe is being removed the removal of the end section is included in the cost of the pipe being removed.

This work will be paid for at the contract unit price per Each for REMOVE EXISTING FLARED END SECTION.

## **WATER MAIN LINE STOP, 8"**

The Contractor shall install line stops at locations indicated on the plans, or as per the direction of the Village and/or Engineer.

This work will be paid for at the contract unit price per Each for WATER MAIN LINE STOP, of the size specified. The contract unit price shall include all labor, material, and equipment necessary to perform the work, which prices shall include all excavation and backfill, bedding and cover; bracing, pipe joint material and restraint, pipe, trench dewatering, disinfection, removal and disposal of waste excavated materials, protection, replacement or repair of existing utilities, installation and removal of line stop, and labor. Any open cut trenching within (5) feet of a proposed pavement, driveway, or sidewalk shall be backfilled with granular trench backfill and shall be included in the contract unit price for the line stop.

## **DUCTILE IRON WATER MAIN FITTINGS**

Description. This work shall consist of furnishing and installing ductile iron restrained joint type water main fittings and concrete thrust blocks complete in place at locations indicated on the Plans in accordance with the Standard Specifications for Water and Sewer Main Construction in Illinois”, latest edition.

Fittings shall be cement lined, tar coated ductile iron with mechanical or push-on restrained joints rated for 250 psi per AWWA C110/ANSI 21.10 (Clow, US Pipe, EBAA Iron, or equal). Fittings in vaults shall be mechanical joint. All fittings shall have a bell and/or spigot configuration identical to that of the pipe. All materials shall be made in the United States.

Method of Measurement. The work will be measured for payment as follows:

- Reducers will be measured for payment in place for each installed.
- Tees will be measured for payment in place for each installed.
- Bends will be measured for payment in place for each installed.
- Plugs will be measured for payment in place for each installed.
- Cutting-in or solid sleeves will be measured for payment in place for each installed.

Basis of Payment. This work will be paid for at the contract unit price per Each DUCTILE IRON WATER MAIN FITTING, of the type and/or size(s) specified.

## **HIGH EARLY STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 9 ½” (JOINTED)**

This work shall consist of constructing high early strength Portland cement concrete pavement at locations as shown on the plans or as directed by the Engineer. This work shall be done in accordance with applicable portions of Section 420 of the Standard Specifications.

This work will be paid for at the contract unit price per Square Yard for HIGH EARLY STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 9 ½” (JOINTED).

## **ISLAND REMOVAL**

Effective: October 10, 2006

This work shall consist of the removal and disposal of the islands as shown on the plans. This work shall be done in accordance with applicable portions of Section 440 of the Standard Specifications and shall include the removal of the concrete island surface, concrete curb & gutter, and excavation below the concrete to a depth of the bottom of the adjacent concrete pavement.

This work will be paid for at the contract unit price per Square Foot for ISLAND REMOVAL.

## **PARKING LOT PAVEMENT REMOVAL**

This work shall consist of the complete removal of the existing parking lot pavement at locations shown on the plans.

All removal work shall be in accordance with Article 440.03. Disposal shall be in accordance with Article 440.06 of the Standard Specifications.

This work will be measured in place and area computed in square yards. This work will be paid for at the contract unit price per Square Yard for PARKING LOT PAVEMENT REMOVAL which price shall include removal, disposal of the material and backfilling as necessary.

## **SANITARY SYSTEM WORK REQUIREMENTS**

Effective: April 27, 2007

This section contains detailed specifications relating to the sanitary sewer proposal items. The work to be done under each time is discussed along with units for payment and measurement for payment. However, the descriptions given do not necessarily outline all the work to be done under any item. In addition, the pipe, fittings and pipe installation shall conform to the follow specifications: *Standard Specification for Water and Sewer Main Construction in Illinois*, 5<sup>th</sup> Edition; May, 1996, Division IV, Sections 41-2.01 A through C, Protection of Water Mains, NASSCO Specifications for Sewer Collection System Rehabilitation, and Rock River Water Reclamation District *General Provisions and Technical Specifications for Sanitary Sewer Construction* (on file).

In case of apparent contradictions between the Detailed Specifications and the *Technical Specifications* (on file), these Detailed Specifications shall govern.

The Contractor shall:

- Notify the Rock River Water Reclamation District, the Illinois Department of Transportation and the Village of Machesney Park 48 hours prior to beginning any work to have an inspector present during all construction.
- Notify all affected property owners 48 hours minimum prior to start of construction.
- Be responsible for securing and complying with all permits and all bonds, insurance, etc., and for paying all fees required by the permits. Copies of all secured permits shall be provided to the RRWRD Engineer prior to the start of construction. Any construction performed in the absence of a RRWRD inspector will not be accepted.
- Notify J.U.L.I.E. at 1-800-892-0123, and all utilities not on the J.U.L.I.E. network, 48 hours minimum prior to construction. All underground utilities shall be located by the affected utility. The Contractor shall exercise special care when excavating near utilities to avoid any damage.
- Repair or restore any damaged pavements, driveways, bituminous surfacing, turf, trees, structures, etc., as directed by the RRWRD. Restoration in right-of-way areas shall be restored per roadway authority requirements.
- Secure all temporary or permanent access, storage or temporary easements needed for construction.

- Be responsible for all tests of materials and final installation required by the RRWRD. All deficiencies noted by the inspectors shall be promptly corrected by the Contractor at no additional cost to the Department.

All work in streets, highways, railroad rights-of-way or flood plains shall be subject to the regulations and requirements of the appropriate agencies. Should conflicts or contradictions arise between the plans, specifications and the roadway, railroad or waterway permits, the permits shall govern. The Contractor shall be responsible for the temporary maintenance of all roadways and drives over the course of this project and shall maintain access at all times. Excavated or other materials shall not be stored or cast upon pavements. The Contractor shall clean up areas from which spoil has been removed at the end of each day by sweeping, washing or other approved methods. When the work is halted by rain, the Contractor shall clean up the working areas before leaving the site. The Contractor shall provide traffic control manpower and/or equipment as required by the jurisdictional roadway agency(ies). No work shall be permitted on Sundays without prior approval by the Department and the RRWRD Engineering Manager.

Final inspection, testing and acceptance tests shall be in accordance with *Technical Specifications* (on file) and requirements of the RRWRD except as modified by the detailed specifications.

The Contractor shall maintain on-site at all times during construction, a person competent in compliance with OSHA trenching and excavation requirements. This person shall be able to identify existing and potential hazards in the work environment (unsanitary, dangerous conditions, etc.) and shall be deputized to take prompt preventative or corrective measures to avoid or eliminate hazards. The methods and means to comply with construction site safety shall be the sole responsibility of the Contractor. RRWRD staff is not responsible for the Contractor's compliance procedures.

All sanitary sewer sections in this project have been televised. TV Logs are available for viewing at the RRWRD Engineering Department during regular business hours.

Any service reconnections must be inspected by a RRWRD Inspector.

Alignment Variations: General location of sewer is governed by existing obstructions in the field. Minor variations in location may be made after approval by RRWRD to facilitate construction operations.

Utility Locations: The Contractor shall be responsible for relocation and reconstruction of all utilities, power poles, signs, lights, signals, underground utilities, etc. conflicting with the proposed construction whether temporary or permanent, in accordance with G.R. 9.1 (on file). Not all utilities are necessarily shown on the plans, and utility locations shown are not necessarily true. The location and/or elevation of all existing utilities (e.g., gas, water, electric, field tiles, irrigation, etc.) shall be determined by the Contractor. The Contractor shall be responsible for support and protection of any and all of these items where construction passes close by. For the duration of this project, the Contractor shall be responsible for maintaining the current level of service provided by the respective utilities to all properties affected by construction.

Utility Notification: The Contractor is to notify all utility companies as well J.U.L.I.E. (1-800-892-0123) at least 48 hours prior to any construction. The Contractor shall notify the Rock River Water Reclamation District forty-eight (48) hours before beginning work.

The Contractor shall notify the governing roadway authority(ies) forty-eight (48) hours prior to beginning work within public rights-of-way.

Damage to Structures: The Contractor is responsible for any damages caused by his operations to existing structures above or below the ground as covered in G.C. 12:1 of the *General Provision and Technical Specification for Sanitary Sewer Construction in the Sanitary District of Rockford* (on file).

Access: The Contractor shall provide access to the residences and/or businesses, schools, etc. at all times (i.e., drives, roadways, ramps, etc must remain open or must be provided) for the duration of this work. All materials, equipment, labor etc. necessary to assure this shall be incidental to the various sanitary sewer pay items.

### **MANHOLE SANITARY 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID**

Effective: April 27, 2007

This work shall consist of furnishing all materials, exterior joint wraps and seals, accessories, equipment, tools, transportation, services and performance of all operations required to construct five-foot (5') inside diameter manhole as shown and detailed on the plans or as directed by the Rock River Water Reclamation District, all in accordance with Article 6:3 and 7 of the *Technical Specifications* (on file), and the pipe manufacturers requirements. This item shall also include furnishing and placing of the manhole frame and lid as shown on the plans. Rim of frame to be set to grade as shown on plans or as specified in this section; Contractor shall field-verify all invert and rim elevations shown in plans, as they are approximate. The new manhole shall be cut-in manhole, doghouse manholes are not allowed.

The top of the precast cone section shall be at an elevation to allow for adjustment of frame (12" maximum) without disturbing precast cone section. This item shall also include furnishing and installing a Neenah Model R-1915-J bolted down frame and lid, 24" diameter, (or approved equal), manhole steps, type and spacing per Department requirements. Manhole lids shall have the word "SANITARY" cast on the center in 2" high lettering and shall have concealed pick holes. Pipe stubs, fittings, adaptors and couplings, as well as outside drop connections at manholes, shall be considered incidental to this item, unless specifically provided for elsewhere, herein.

Unless otherwise specified or shown, manhole frames shall be set at one inch (1") above finish grade in turf areas and at finish grade in paved areas. Concrete adjusting rings shall be standard reinforced concrete pipe pattern. Minimum ring thickness shall be two inches (2"). Maximum ring thickness shall be twelve inches (12"). ASTM requirements for adjusting rings: conform to ASTM C478 and ASTM C139, latest revision. Concrete for adjusting rings: Class "A" as specified in T.S. 5:3 (a). Concrete in the most current edition of the RRWRD's *General Provisions and Technical Specifications for Sanitary Sewer Construction* (on file); manufacturer to supply certified test results showing compliance with concrete strength requirements. Absorption requirements: ACI Specification P-I-C and ASTM C139, latest revision.

All adjusting ring joints shall be sealed water-tight by means of E-Z Stik, Kent-Seal, or equal (including cast iron frame to concrete adjusting ring). Minimum adjusting ring placement height: four inches (4"). Maximum adjusting ring placement heights: twelve inches (12"), with only one (1) two-inch (2") ring per manhole; no more than thirty inches (30") from the top of casing to the first step. Joint between adjusting rings and casting shall be water-tight by means of a butyl material seal (E-Z Stik, Kent-Seal, or equal). No adjusting rings are required for manholes in turf areas or in roadways with curb and gutter.

In roadways only, metal or plastic shims will be required only if the casting in the roadway must be pitched to accommodate roadway pavement. Shims must be equally spaced with no more than one inch (1") of total adjustment. No butyl materials seal (E-Z Stik, Kent-Seal, or equal) will be used under the casting and the void area between the casting, and masonry shall be grouted from the outside to the inside face of the adjusting ring, with the entire void to be filled. No trench compaction shall take place until the concrete has cured and hardened to the RRWRD's satisfaction.

All manholes located at driveways shall have the cone section rotated so that the manhole casting and cone allow room for a culvert pipe at the driveway. All manholes located off the roadway and not in driveways shall have the cone section rotated so that the manhole casting is located as close to the road as possible.

The Contractor shall install external casting seals on all manholes per the *Standard Detail Sheet*.

All manholes shall be vacuum tested per ASTM C1244 *Standard Test Method for Concrete Sewer Manholes By The Negative Pressure (Vacuum) Test* prior to placing into service.

The Contractor shall construct a paved bench in each manhole per the Standard Detail Sheet or as directed by the RRWRD. Manhole benches shall have a minimum slope of two inches (2") per foot.

Watertight pipe connections to new manholes shall be made by using rubber-gasket type seals cast integrally in the manhole wall per ASTM F-477 or expandable gaskets per ASTM C-943. The design shall be in accordance with the manufacturer's requirements and shall receive prior approval of the RRWRD.

Manhole shop drawings must be submitted to the RRWRD for approval prior to manufacture and delivery to the site. Manhole shop drawings shall include a specified detail for each manhole showing the number and height of barrel sections, height of cone section, number and size of adjusting rings, location and spacing of steps and elevations of all pipes. A plan view shall be provided showing the orientation of pipe openings.

Flat tops will not be permitted on any manholes – eccentric cone sections shall be a component of each manhole.

This item shall include all materials, labor, transportation, core drilling existing manholes as required, reworking existing manhole inverts and/or benches as required, outside drop connections, all manholes of the sizes and types required, dewatering, pipe stubs, gasket seals, equipment, supervision and service necessary to complete the above described operation with all necessary appurtenances, site preparations and restoration work.

Basis of Payment: This work shall be paid for at the contract unit price per Each for SANITARY MANHOLE, 5'-DIAMETER, of the type specified frame and the specified lid.

## **INLETS, SPECIAL**

Description: This item shall be constructed in accordance with Section 602 of the Standard Specifications and the details shown in the plans.

General: This item shall include the cost of furnishing the frame, lid, reinforcement bars, floor, walls, top of slab, labor, and other necessary items to construct the inlets.

Basis of Payment: This work will be paid for at the contract unit price per Each for INLETS, SPECIAL of the type specified.

## **SANITARY MANHOLES TO BE ADJUSTED SANITARY MANHOLES TO BE RECONSTRUCTED**

Structures shall be constructed of pre-cast reinforced concrete sections or cast-in-place concrete only.

Sanitary sewer structures: The bottom, barrel and concentric transition sections of the manhole or flat top shall be constructed of precast reinforced concrete sections only. Sanitary Sewer manholes shall have a sealed exterior, sealed with bitumastic material meeting federal specification SSC153C, Type 1 or SSA 649D.

Brick and or concrete masonry shall not be used for the construction or adjustment of structures.

Adjustment of lids of catch basins, valve vaults or manholes to grade shall be done using cast-in-place concrete only. Drilled bars shall be used when extending walls over 6" to the proper elevation. Bars shall be #6, drilled 9" in to existing walls at 1' centers. For every 6" of adjustment a #5 bar, shaped to match structure, shall be tied to the drilled bars around the perimeter of the adjustment. All reinforcement bars shall be epoxy coated. Any bricks and/or adjustment rings shall be removed and replaced with this method of adjustment. Adjustments for manholes an catch basins (single and double) shall be complete and frames set prior to pavement construction. Manholes with greater than 18" of adjustment shall have a manhole barrel section of the same size and type added to the existing structure. The cost for furnishing the additional section will be paid as specified in Section 109.04.

The casting shall be sealed to the concrete with a mastic type material approved by the engineer.

All excavations shall be backfilled with CA-13 and compacted.

Steps for manholes shall be omitted.

Frames and lids used for adjustments shall be existing unless new are provided for by the item. Any frames, lids or tops broken by the Contractor shall be replaced at no additional cost to the contract.

All manhole frames and lids, unless otherwise noted shall be a NEENAH-1713 or equal with a Type 1 frame. All storm manholes, unless otherwise noted, shall have an open lid stamped with a "NO DUMP" environmental stamp. The lid for sanitary manholes, unless otherwise noted, shall have a "SELF-SEALING" lid, stamped "SANITARY" with a concealed pick-hole.

All storm drainage structures with new frames, lids and grates, including but not limited to catch basin single/double, catch basin specials, and manholes shall have a NO DUMP environmental stamp.

The Mortar bed shall not exceed 1" in thickness.

"Box-outs" shall be optional for manholes, inlets single and doubles, etc. All adjustments must be completed prior to pavement placement or finishing box-outs.

After the finish surface has been placed, the structures shall be adjusted to grade using Concrete "Box-outs". Adjustments shall be required for manholes, valve boxes, cleanouts, inlets single and doubles, etc. If a mortar bed is used to set the casting, the thickness shall not exceed 1".

All storm sewer manholes, inlets and catch basins shall include a six-foot length of perforated, corrugated polyethylene (PE) tubing 4", connected to said structures, encased in a fabric envelope placed in the trench bottom of an upstream storm sewer. The end of said tubing shall be capped.

Pressure testing of sanitary manholes shall be in accordance with the "Illinois Recommended Standards for Sewage Works and the Design Criteria for Pressure Sewer Systems" except as follows. Section 370.32 (h) Joints and Infiltration.

#### Leakage Testing

- A) All main line sewers on new development projects shall be tested. On reconstruction projects where laterals have already been connected, testing will not be required.
- B) Leakage testing for manholes shall be in accordance with ASTM C1244-93, "Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test".

Connection of new structures to new and/or existing storm and/or sanitary sewers shall be incidental to these items. All required pipe for said connections shall also be incidental.

Place upstream of structure, where new storm sewer is constructed, a six-foot length of perforated, corrugated polyethylene (PE) tubing 4", encased in a fabric envelope. Connect to storm manholes, inlets and catch basins. Pipe and connection shall be incidental to these items.

Any additional adjustment required for new and/or reconstructed structures to meet the design elevation will be incidental to the item.

These items include the furnish of all labor, equipment and materials the performing of all work required to adjust frames, lids or tops of structures to fit the finished surface elevation of the completed pavement, top of curb, sidewalk, driveway or ground.

This work shall be paid for at the contract unit price per Each for SANITARY MANHOLE TO BE ADJUSTED and SANITARY MANHOLES TO BE RECONSTRUCTED.

#### **TEMPORARY LIGHTING SYSTEM**

Description: This work shall consist of providing, installing, maintaining, and removing temporary roadway lighting at the locations as directed by the Engineer. The system shall consist of all items necessary to illuminate the median cross-over utilized for maintenance of traffic during construction.

General: The Contractor shall provide, identify and secure electrical service, install power poles, and connect required services for operation of the lights as shown on the plans. The Contractor is responsible for any service connection fees and electrical usage costs. The system shall be operational prior to the diversion of traffic on to Stage I construction. After completion of work, the Contractor shall remove the system in accordance with Article 841 of the Standard Specifications for Road and Bridge Construction.

Equipment: All equipment and installation requirements shall comply with applicable sections of Section 800 of the Standard Specifications for electrical work. Luminaries shall have a minimum mounting height of 35 foot, be a multi-mount type, and utilize a 400 watt high pressure sodium vapor lamp.

Basis of Measurement: This work will be measured for payment as lump sum.

Basis of Payment: This work shall be paid for at the contract unit price per Lump Sum for TEMPORARY LIGHTING SYSTEM.

## **PAVEMENT COLOR AND TEXTURE (SPECIAL)**

### **PART 1 – GENERAL**

#### **1.1 DESCRIPTION**

- A. Pavement coloring and texturing is a highly suitable solution for a wide variety of decorative pavement applications. Paved entranceways, parking lots, residential driveways, sidewalks, plazas, medians, and cross-walks are some examples of successful applications of pavement coloring and texturing.
- B. Pavement texturing is executed by elevating the temperature of an asphalt pavement surface and then pressing a metal template into the surface to replicate, in relief, the grout depressions common to hand-laid brick or cobblestone, or any other design as shown on the drawings or described in the specifications. The imprinted asphalt pavement surface is then coated with a coating or system of coatings specifically formulated for asphalt pavement.
- C. Pavement coloring and texturing is a highly specialized process that requires the skill of a qualified applicator working with the proper equipment and applying highly specialized coating(s) designed specifically for application to asphalt pavement.
- D. This specification will include guidance with respect to the minimum requirements/qualifications of the applicator, equipment and coating in the execution of this Work.

#### **1.2 REFERENCES**

- A. ASTM D-4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Tester.
- B. ASTM D-4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.

- C. ASTM D522-93A Standard Test Method for Mandrel Bend Test of Attached Organic Coatings.
- D. ASTM G-155 QUV Accelerated Weathering Environment. Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.
- E. ASTM D-2486 MEK rub test for chemical resistance.
- F. ASTM E-303 British Pendulum test for friction.
- G. EPA 24 ASTM D3960-05 Volatile Organic Compounds.

### 1.3 DEFINITIONS

- A. "Qualified Applicator" is a contractor or applicator who has completed asphalt pavement texturing work and can provide certification and references upon request.
- B. "Owner" means the Owner and refers to the representative person who has decision making authority for the Work.
- C. "Textured asphalt Pavement" is asphalt pavement that has been subjected to imprinting or stamping in a specific pattern.
- D. "Non-textured asphalt pavement" is asphalt pavement that is unstamped and is sometimes referred to as "flatwork".
- E. The "Work" is the asphalt pavement texturing work contemplated in this bid submission and specification.
- F. "Scuffing" is a "tear" of the asphalt pavement caused by an external force. Stationary vehicle tires turning on the pavement surface is a typical cause.

### 1.4 SUBMITTALS

The documents required as part of this bid submission are as follows:

- A. Proof of applicator's ability. A copy of the current year license as provided to the proposed applicator issued by a recognized authority in the execution of asphalt pavement texturing work. Failing that, at least 3 reference sites and written references from 3 previous customers for work performed by this applicator.
- B. A list of the major equipment to be used in the execution of the Work. This list will include the asphalt pavement reheat machinery, spray equipment, compactor(s) and templates.
- C. The name of the coating(s) and the coating supplier's name.
- D. Certified performance test results of the coating materials as outlined in Table 1.
- E. The CONTRACTOR shall provide representative color samples of asphalt pavement to the owner for color selection. Each sample shall be a minimum of 6"X6", and the color shall be clearly labeled on each sample.

The CONTRACTOR shall provide samples for the following colors: Bedrock Brick, Burnt Sienna, Granite, Sierra, Slate, Chestnut Brown, Khaki, and Sun Baked Clay. Samples shall be provided to the owner a minimum of 60 days before asphalt paving operations begin in the medians and islands. The cost of providing samples shall be considered included in the cost of imprinting and coloring, and no additional compensation will be allowed.

## PART 2 – PRODUCTS

### 2.1 MATERIALS – COATINGS

Properly designed asphalt pavement coatings have been scientifically formulated to provide the optimal balance of performance properties for a durable, long lasting color and texture to asphalt pavement surfaces. Some of these key properties include wet wear durability, crack resistance, fade resistance, adhesion and friction properties. These properties must be backed up by a Certificate of Analysis from an independent laboratory or an equal document that certifies these performance properties. The asphalt pavement coating must be environmentally safe and meet EPA requirements for Volatile Organic Compounds (VOC).

Only use asphalt pavement coatings from qualified pavement coating suppliers who can provide proof of these required performance properties.

### 2.2 MINIMUM PERFORMANCE PROPERTIES OF ASPHALT COATING

The following table outlines the minimum required performance properties of the asphalt pavement coating. These performance properties must be ascertained by a Certificate of Analysis issued by an approved testing facility.

**TABLE 1: Required Performance Properties of Asphalt Pavement Coating**

| <b>Characteristic</b>                                   | <b>Test Specification</b>   | <b>Minimum Required Result</b>      |
|---|---|-------------------------------------|
| Durability<br>Taber Abrasion<br>(cycles to wearthrough) | ASTM D-4060 Abrasion Resistance of Organic Coatings (wet wear)<br>7 day cure, 24 hour soak;H-10 wheel   | <b>Wear Index (WI)<br/>&lt; 5.0</b> |
| Color stability   | ASTM G-155<br>QUV 2,000 hours (CIE units)   | <b>Brick color<br/>ΔE &lt; 1.5</b>  |
| Flexibility:<br>Mandrel Bend                            | <b>ASTM D522-93A Flexibility as measured by Mandrel bend<br/>0.5mm thick sample passes 10 mm at 21°C<br/>0.5mm thick sample passes 125mm at -18°C</b> |                                     |
| Chemical<br>resistance                                  | ASTM D-2486 Modified MEK scrubs<br>16 dry mils, number of scrubs until<br>50% substrate exposed   | <b>&gt;5000</b>                     |
| Adhesion to<br>Asphalt                                  | ASTM D-4541   | <b>Substrate Failure</b>            |
| Friction Wet  | ASTM E-303 British Pendulum Tester  | <b>&gt;55</b>                       |
| Environmental<br>Sensitivity                            | EPA 24 ASTM D3960-05<br>Volatile Organic Compounds  | <b>VOC &lt; 150</b>                 |

### 2.3 EQUIPMENT

The following specialized equipment shall be used in the execution of the Work.

- A. Metal wire rope templates are used to create the desired imprint pattern. Only use templates that have been supplied by a manufacturer who has the proven expertise in manufacturing these templates for this type of application.
- B. Asphalt pavement reheat equipment specifically designed for asphalt pavement texturing is to be used in the execution of this work. The primary asphalt pavement re-heat equipment must cycle the heat application and must allow the equipment operator to check the pavement surface temperature during the heating process. These controls are necessary to enable the pavement temperature to be elevated gradually, giving the operator the ability to ensure that the pavement is not overheated or adversely affected. Heaters without these controls are strictly prohibited as the primary re-heat equipment.
- C. Hand-held portable heating devices may be used only for areas where it is difficult to operate the re-heat machine. These may not be used as the primary pavement re-heating device.
- D. Finishing tools that are designed to enable the applicator to complete the imprinting of the asphalt pavement in areas which may be inaccessible to the template such as curbs and manhole covers are permitted.
- E. Vibratory Plate Compactors shall be used for pressing the templates into the heated asphalt pavement to create the specified pattern.
- F. Specialized coating spray equipment must be used in the application of the coating and must be capable of applying the coating to the asphalt pavement surface in a thin, controlled film which will optimize the drying and curing time of the coating. More specifically, the spray equipment pump must be capable of providing a continuous recirculation of the coating in order to keep the solids within the coating in suspension.

## PART 3 – EXECUTION

### 3.1 GENERAL

The pavement texturing system shall be supplied and installed by a Qualified Applicator in accordance with the plans and specifications or as directed by the Owner. Do not begin the Work until confirmation of the Applicator's qualifications is provided.

### 3.2 PRE-CONDITIONS – ASPHALT PAVEMENT

A highly stable asphalt pavement free of defects is a pre-requisite for the installation of a pavement texturing system. Do not install the pavement texturing system over poor quality asphalt pavement.

#### 3.2.1 Pre-requisites for new asphalt pavement

A durable and stable asphalt pavement mix design installed according to best practices over a properly prepared and stable substrate is a pre-requisite for all long-lasting asphalt pavement surfaces. The application of a pavement texturing system does not change this requirement.

Generally, the asphalt pavement mix design for roadways as prescribed by the local jurisdiction will be sufficient for the application of a pavement texturing system.

### 3.2.2 Pre-requisites for existing asphalt pavement

Depending upon the condition and age, existing asphalt pavement may or may not be suitable for the successful application of a pavement texturing system.

Minimally, the asphalt pavement must be in excellent condition and not have any defects including cracks, ruts or potholes nor demonstrate any flushing, raveling or like deficiencies.

### 3.2.3 Pavement Marking Removal: recommended guidelines

Pavement markings may be removed by sandblasting, water-blasting, grinding, or other approved mechanical methods. The removal methods should, to the fullest extent possible, cause no significant damage to the pavement surface. The Owner shall determine if the removal of the markings is satisfactory for the application of the pavement texturing system. Work shall not proceed until this approval is granted.

### 3.2.4 Surface Preparation

The asphalt pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue.

## 3.3 LAYOUT

Layout of the pattern for imprinting into the surface of the asphalt pavement shall be as per the drawings and specifications.

## 3.4 HEATING THE ASPHALT PAVEMENT

The Applicator shall use asphalt pavement reheat equipment as described in Section 2.3.

- A. The optimal pavement temperature for imprinting the template is dependent upon mix design, modifiers used in the mix, the age of the pavement and weather. The surface temperature of the pavement should not exceed 325°F as determined by an infra-red thermometer reading taken after the heat is applied to the asphalt pavement.
- B. In order to achieve the proper depth of imprint it is important to elevate the asphalt pavement temperature to a minimum depth of 1/2 inch (12.5mm) without burning the pavement surface. This can only be accomplished using asphalt pavement reheat equipment that is specifically designed for this Work.

## 3.5 SURFACE IMPRINTING

- A. The pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue.

- B. Once the asphalt pavement has reached imprinting temperature, the templates shall be placed in position and pressed into the surface using vibratory plate compactors. The top of the template is to be flush with the surrounding asphalt pavement and can then be removed. Areas that have an imprint depth less than 3/8 inch shall be re-heated and re-stamped prior to applying the coatings. Hand tooling is a permitted method to achieve proper imprint depth in areas difficult to get at with the template.

### 3.6 APPLICATION OF ASPHALT PAVEMENT COATING

#### 3.6.1 Application Guidelines.

- A. The qualified applicator shall refer to the asphalt pavement coating supplier's recommendations for methods of application. Special care and attention must be paid to ensure asphalt pavement coatings are applied in environmental conditions that permit proper cure.
- B. The coating application shall proceed as soon as possible upon completion of the imprinting of the asphalt pavement.
- C. The pavement surface shall be completely dry and thoroughly cleaned prior to application of the asphalt pavement coating(s).
- D. Depending upon the condition and age of the pre-existing pavement, primer may be required. Refer to the asphalt pavement coating supplier's specifications.
- E. The qualified applicator shall use spray equipment specifically designed for the application of the coating(s) as outlined in Section 2.3 above.
- F. Refer to the asphalt pavement coating supplier's recommendations for coating coverage rate, number of recommended passes and recommended film thickness.

### 3.7 OPENING TO TRAFFIC

Minimally, the surface coating must be 100% dry before traffic is permitted. Refer to the asphalt pavement coating supplier's guide.

## PART 4 – MEASUREMENT AND PAYMENT

### 4.1 MEASUREMENT

The measured area is the actual area that has received the asphalt pavement texturing. No deduction will be made for the area(s) occupied by manholes, inlets, drainage structures, bollards or by any public utility appurtenances within the area.

### 4.2 PAYMENT

Payment will be full compensation for all work completed as per conditions set out in the contract.

For unit price contracts, the payment shall be calculated using the measured area as determined above.

### **SERVICE INSTALLATION (SPECIAL)**

This service installation shall conform to the specifications as stated in Section 805 including Type A of the "Standard Specifications for Road and Bridge Construction" and/or as directed by the Engineer and/or the Utility Company.

This work shall consist of buried conduit with service cable from electric source to a 6" x 6" wood post at the Traffic Control Cabinet. The post shall house disconnect switch, meter, and ground rod.

The circuit breaker enclosure shall provide a 60 amp single-pole breaker for the traffic signal circuit and a 30 amp single-pole breaker for the lighting circuit.

Basis of Payment. This work will be paid for at the contract unit price per Each intersection for SERVICE INSTALLATION (SPECIAL), which price shall be payment in full for furnishing and installation to complete this pay item.

### **CONCRETE FOUNDATION, TYPE E**

This work shall consist of constructing concrete foundations for mast arm poles at the locations shown in the plans and as detailed on Highway Standard 878001, according to Section 878 of the "Standard Specifications for Road and Bridge Construction".

Depths shown in the plans are approximated and shall be used for estimating purposes only. The Engineer will provide soil borings to determine actual depths.

Basis of Payment. This work will be paid for at the contract unit price per Foot of depth for CONCRETE FOUNDATION, TYPE E, of the diameter specified.

### **TEMPORARY TRAFFIC SIGNAL INSTALLATION**

This work shall be done according to Section 890 of the "Standard Specifications for Road and Bridge Construction" and Standard 880001, and the Special Provision, SEQUENCE OF TRAFFIC SIGNAL CONSTRUCTION, except as modified herein.

This work shall consist of designing, furnishing, installing, modifying, maintaining, and removing a temporary traffic signal installation at the intersections of IL Route 173 with Illinois Route 251, Orlando Street, and Alpine Road and at the intersection of Illinois Route 251 and Melbourne Street.

The Contractor shall design and submit to the Engineer for the District's approval, a detailed plan showing the proposed locations of the temporary poles, phasing, and signal heads for each phase of the staged construction. The existing traffic signal operation sequence shall be maintained.

The Contractor may use the existing controller, with the District's approval, or a temporary controller for the operation of the temporary traffic signals. The cost of installing and removing the existing controller shall be included in the contract unit price. The Contractor, under this provision, shall be responsible for maintaining and repairing/replacing any items of the controller that are damaged for the entire duration when the Contractor is using it.

Existing electrical devices at an intersection shall be maintained according to the Special Provision, MAINTENANCE OF EXISTING ELECTRICAL DEVICES.

The existing traffic signal controller or the temporary traffic signal controller, if provided by IDOT, shall remain the property of the State of Illinois.

Upon removal of the temporary traffic signals, the controller, if furnished by IDOT, shall be delivered to IDOT. Contact Scott Kullerstand at (815) 284-5468 for delivery details.

The Contractor shall be responsible for repairing or replacing any items of the controller that are damaged during the process.

The cost of installing and removing the existing or temporary traffic signal controller, if required, in the temporary traffic signal installation shall be included in the contract unit price for TEMPORARY TRAFFIC SIGNAL INSTALLATION.

Temporary traffic signals may need to be adjusted during the stage construction operation. The cost of these adjustments shall be included in this pay item and no additional compensation will be allowed. A sufficient length of conductors shall be attached to the span wire to allow for movement of the signal heads.

Method of Measurement. This item of work will be measured for payment per each intersection for providing all materials, equipment, and labor necessary to install and maintain the temporary traffic signals until the new signals are in place and operating.

Basis of Payment. This work will be paid for at the contract unit price per Each intersection for TEMPORARY TRAFFIC SIGNAL INSTALLATION, which price shall be payment in full for completing all work specified herein and no additional compensation will be allowed. Sixty percent (60%) of the unit price will be paid following District approval of each installation. The remaining forty percent (40%) will be paid following removal of each installation.

### **TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)**

This work shall be done according to Section 890 of the "Standard Specifications for Road and Bridge Construction" and Standard 880001, and the Special Provision, SEQUENCE OF TRAFFIC SIGNAL CONSTRUCTION, except as modified herein.

This work shall consist of designing, furnishing, installing, modifying, maintaining, and removing a temporary traffic signal installation, capable of side road approach detection, at the intersection of IL Route 173 and Continental Drive. This temporary traffic signal installation will remain in service until permanent traffic signals are installed during a later contract.

The Contractor shall design and submit to the Engineer for the District's approval, a detailed plan showing the proposed locations of the temporary poles, phasing, and signal heads for each phase of the staged construction. The existing traffic signal operation sequence shall be maintained.

The Contractor may use the existing controller, with the District's approval, or a temporary controller for the operation of the temporary traffic signals. The cost of installing and removing the existing controller shall be included in the contract unit price. The Contractor, under this provision, shall be responsible for maintaining and repairing/replacing any items of the controller that are damaged for the entire duration when the Contractor is using it.

Existing electrical devices at an intersection shall be maintained according to the Special Provision, MAINTENANCE OF EXISTING ELECTRICAL DEVICES.

The existing traffic signal controller or the temporary traffic signal controller, if provided by IDOT, shall remain the property of the State of Illinois.

Upon removal of the temporary traffic signals, the controller, if furnished by IDOT, shall be delivered to IDOT. Contact Scott Kullerstand at (815) 284-5468 for delivery details.

The Contractor shall be responsible for repairing or replacing any items of the controller that are damaged during the process.

The cost of installing and removing the existing or temporary traffic signal controller, if required, in the temporary traffic signal installation shall be included in the contract unit price for TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL).

Temporary traffic signals may need to be adjusted during the stage construction operation. The cost of these adjustments shall be included in this pay item and no additional compensation will be allowed. A sufficient length of conductors shall be attached to the span wire to allow for movement of the signal heads.

Method of Measurement. This item of work will be measured for payment per each intersection for providing all materials, equipment, and labor necessary to install and maintain the temporary traffic signals until the new signals are in place and operating.

Basis of Payment. This work will be paid for at the contract unit price per Each intersection for TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL), which price shall be payment in full for completing all work specified herein and no additional compensation will be allowed. Sixty percent (60%) of the unit price will be paid following District approval of each installation. The remaining forty percent (40%) will be paid following removal of each installation.

## **SEQUENCE OF TRAFFIC SIGNAL CONSTRUCTION**

The Contractor shall plan and program the various items of traffic signal work in this contract so that disruptions to the movement of traffic through the existing signalized intersections is kept to a minimum.

The existing traffic signal installation at the intersections of IL 173 with IL 251, Orlando Street, Alpine Road, and Continental Drive shall remain in operation until the temporary traffic signal installations as specified in these Special Provisions are constructed and ready for operation.

The temporary traffic signal installations shall remain in operation until the proposed traffic signals are ready for operation.

The conversion of traffic signals from existing to temporary and from temporary to final installation shall be accomplished using an all-red flash of the signals during a weekday between the hours of 9:00 A.M. and 3:00 P.M. with the signals back in operation at night. Prior approval of the Engineer is required before a shutdown is attempted. The signals shall be in operation on all weekends and holidays.

Any additional cost incurred by the Contractor to meet the requirements of this provision shall be considered incidental to the contract and no additional compensation will be allowed.

### **MAINTENANCE OF EXISTING ELECTRICAL DEVICES**

This work shall be performed according to the Articles 801.10 and 801.11, and as modified herein.

The existing electrical devices which lie within the construction limits of this project will continue to be the maintenance responsibility of the Illinois Department of Transportation. Electrical devices are defined to mean highway lighting installations, traffic signals, flashing beacons, sign truss illumination units, changeable message signs, ITS, motorist aid call boxes, dewatering pumps, speed monitoring devices, traffic volume count stations, wrong way movement detectors, following-too-close monitors, ice/fog detectors or any such devices or facilities the Department may have to maintain.

Any damage or malfunctions of these devices, observed by the Contractor, shall be reported immediately to the Department.

If it is determined by the Engineer that the Contractor is responsible for damage of any type to above-mentioned existing electrical devices, including underground wiring, as a result of negligence or poor workmanship, the Contractor shall be responsible for the repair of these facilities. These repairs shall be accomplished by whatever method the Department deems necessary. In the event the repairs are not made by the Contractor, the Contractor shall be required to reimburse the Department for such repairs within 60 days of receiving written notification of said damage.

The Department will continue to maintain the existing electrical devices until such time as the Contractor removes these devices, if required by this Contract. Any new, rebuilt, or modernized equipment installed as a requirement of this Contract shall be the maintenance responsibility of the Contractor until such time as this equipment is final inspected and found to be installed in a satisfactory manner by the Department. Existing individual equipment not involved with the work of this Contract will continue to be the maintenance responsibility of the Department.

## **REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT**

This work consists of removing the existing traffic signals and appurtenances as shown on the plans at the intersections of Illinois Route 173 with Illinois Route 251, Orlando Street, Alpine Road, and Continental Drive. This work shall be done according to Section 895 of the "Standard Specifications for Road and Bridge Construction".

The existing traffic signal installation shall remain in operation until the temporary traffic signal installation is ready for operation. Upon approval of the Engineer, the Contractor shall remove the following traffic signal equipment:

- Posts – as indicated on the traffic signal plan sheets
- Mast Arms – as indicated on the traffic signal plan sheets
- Signal Heads – as indicated on the traffic signal plan sheets
- Controller – after the activation of the new signals (if utilizing for the temporary signals) or after the activation of the temporary signals (if utilizing a temporary controller for the temporary signals)

The removed equipment shall remain the property of the State of Illinois. Upon removal of such equipment, the Contractor shall contact Scott Kullerstand of IDOT at (815) 284-5468 to determine which traffic signal items IDOT would like to salvage. Such delivery shall be made under other provisions of this contract.

This work will include all materials, equipment, and labor necessary to remove the existing traffic signal equipment as shown in the plans. This work will be paid for at the contract unit price per Each for REMOVAL EXISTING TRAFFIC SIGNAL EQUIPMENT.

## **REMOVE EXISTING HANDHOLE**

This item shall consist of removing concrete handhole(s) according to the requirements of the plans and Section 895 of the "Standard Specifications for Road and Bridge Construction". The entire depth of all walls of the handhole(s) shall be removed. All abandoned conduits shall be sealed to the satisfaction of the Engineer to prevent migration of soil into the conduits.

Method of Measurement. This item of work will be measured for payment per each for removing and disposing of the existing handhole as required in the plans, specifications and these Special Provisions.

Basis of Payment. This work will be paid for at the contract unit price per Each for REMOVE EXISTING HANDHOLE, which price shall be payment in full for completing all work specified herein, and no additional compensation will be allowed.

## **REMOVE EXISTING DOUBLE HANDHOLE**

This item shall consist of removing concrete double handhole(s) according to the requirements of the plans and Section 895 of the "Standard Specifications for Road and Bridge Construction". The entire depth of all walls of the handhole(s) shall be removed. All abandoned conduits shall be sealed to the satisfaction of the Engineer to prevent migration of soil into the conduits.

Method of Measurement. This item of work will be measured for payment per each for removing and disposing of the existing double handhole as required in the plans, specifications and these Special Provisions.

Basis of Payment. This work will be paid for at the contract unit price per Each for REMOVE EXISTING DOUBLE HANDHOLE, which price shall be payment in full for completing all work specified herein, and no additional compensation will be allowed.

## **REMOVE EXISTING CONCRETE FOUNDATION**

This item of work shall include removing the existing concrete traffic signal foundations according to the requirements of the plans and Section 895 of the "Standard Specifications for Road and Bridge Construction." The foundations shall be removed as described in Article 895.05(c) of the Standard Specifications. All abandoned conduits shall be sealed to the satisfaction of the Engineer to prevent migration of soil into the conduits.

Method of Measurement. This item of work will be measured for payment per each for removing and disposing of the existing concrete foundations as required in the plans, specifications and these Special Provisions.

Basis of Payment. This work will be paid for at the contract unit price per Each for REMOVE EXISTING CONCRETE FOUNDATION, which price shall be payment in full for completing all work specified herein, and no additional compensation will be allowed.

## **VIDEO VEHICLE DETECTION SYSTEM**

The following video vehicle detection systems meet the specifications outlined in this section and are currently approved for use in District 2:

Iteris Vantage Edge 2 (4 Camera System)  
Autoscope Solo Pro (4 Camera System)

The quantity and type of cable that will be required to complete the installation will vary depending on the equipment manufacturer.

The Contractor shall be responsible for determining the cable type and quantities of cable required for the video detection installations. All cable used shall meet current Department specifications, manufacturer's recommendations, and shall be subject to approval by the Engineer.

The system to be installed shall be the latest model. It shall include four (4) cameras plus one (1) spare per intersection to be delivered to the City of Machesney Park Traffic Engineer, the processor unit, connectors, software, and all cabling necessary back to the controller. All the equipment shall be compatible with the controller to be installed on this project. All equipment shall be installed according to manufacturer's recommendations. The video detection cameras shall be capable of being zoomed and focused from a connection in the controller cabinet. The video cameras shall be mounted on the mast arm using an extension pole to achieve a minimum height of 25'.

The video vehicle detection system shall include all necessary cables, electrical junction boxes, electrical and coaxial surge suppression, hardware, software, programming, and any camera brackets that are required for installation. These items should be taken into consideration and shall be included in the bid price 4 camera system and 1 spare camera for the VIDEO VEHICLE DETECTION SYSTEM.

If the unit requires the use of a power strip, the power strip/surge suppressor shall conform to the following minimum specifications:

Let Through Voltage: <85 Volts  
Operating Voltage: 120VAC, 50/60H  
UL Suppressed Voltage Rating: 330V  
Energy Rating: 320J  
Peak Current NM/CM: 13k Amps NM, 13k Amps CM  
EMI/RFI Noise Filtration: >25-60dB

A total of one 10" color video monitor and trackball shall be included in the installation, to allow for the setup and monitoring of the video detection system.

All vehicle video detection systems shall be equipped with the latest software or firmware revisions.

The video vehicle system shall be configured and installed to NEMA TS1 Standards.

The Contractor shall be responsible for furnishing and installing all necessary camera brackets that are required for the camera installation. The camera mounting brackets shall be of aluminum or steel construction with a natural or white powder coated finish. All brackets shall be submitted to the Department for approval prior to installation. The material and installation shall be completed to the satisfaction of the Engineer.

The minimum requirements for a video vehicle detection system are listed below:

#### 1.0 General

This Specification sets forth the minimum requirements for a system that monitors vehicles on a roadway via processing of video images and provides detector outputs to a traffic controller or similar device. All video detection systems must be approved by the Department. Currently, only Iteris R2-4 Advanced Camera and Econolite Autoscope Solo Pro video detection systems are approved for use within District 2.

#### 1.1 System Hardware

The system shall consist of four video cameras, one spare camera and an automatic control unit (ACU). The ACU shall process all detected calls and shall be equipped with the latest firmware revisions.

#### 1.2 System Software

The system shall be able to detect either approaching or receding vehicles in multiple traffic lanes. A minimum of 24 detection zones shall be user-definable per camera. The user shall be able to modify and delete previously defined detection zones.

The software shall provide remote access operation and shall be the latest revision.

## 2.0 Functional Capabilities

### 2.1 Real-Time Detection

2.2 The ACU shall be capable of simultaneously processing information from up to four (4) video sources. The video shall be digitized and analyzed at a rate of 30 times per second.

2.3 The system shall be able to detect the presence of vehicles in a minimum of 96 detection zones within the combined field of view of the image sensors.

## 3.0 Vehicle Detection

### 3.1 Detection Zone Placement

The video detection system shall provide flexible detection zone placement anywhere and at any orientation within the combined field of view of the image sensors. In addition, detection zones shall be coordinated with the signal phases. Each detection zone shall provide a minimum of two kinds of detection (extend, delay, presence or counting) as each phase may require. The type of detection provided by the detection zone is to be determined by the active status of the zone's governing phase.

### 3.2 Optimal Detection

The video detection system shall reliably detect vehicle presence when the image sensor is mounted 30 feet (10 m) or higher above the roadway, when the image sensor is adjacent to the desired coverage area, and when the length of the detection area or field of view (FOV) is not greater than ten (10) times the mounting height of the image sensor. The image sensor shall not be required to be mounted directly over the roadway. A single image sensor, placed at the proper mounting height with the proper lens, shall be able to monitor six (6) to eight (8) traffic lanes simultaneously.

### 3.3 Detection Performance

Overall performance of the video detection system shall be comparable to inductive loops. Using standard image sensor optics and in the absence of occlusion, the system shall be able to detect vehicle presence with 98% accuracy under normal conditions, (days & night) and 96% accuracy under adverse conditions (fog, rain, snow). The ACU shall output a constant call for each enabled detector output channel if a loss of video signal occurs in any camera.

The ACU shall be capable of processing a minimum of twenty detector zones placed anywhere in the field of view of the camera.

## 4.0 ACU Hardware

### 4.1 ACU Mounting

The ACU shall be shelf or rack mountable. Nominal outside dimensions excluding connectors shall not exceed 7.25" x 19" x 10.5" (H x W x D).

## 4.2 ACU Environmental

The ACU shall be designed to operate reliably in the adverse environment found in the typical roadside traffic cabinet. It shall meet the environmental requirements set forth by the NEMA (National Electrical Manufacturers Association) TS1 and TS2 standards as well as the environmental requirements for Type 170 and Type 179 controllers. The minimum operating temperature range shall be from -35 to +74 degrees C at 0% to 95% relative humidity, non-condensing.

## 5.0 ACU Electrical

5.1 The ACU shall be modular in design and provide processing capability equivalent to the Intel Pentium microprocessor. The bus connections used to interconnect the modules of the ACU shall be gold-plated DIN connectors.

5.2 The ACU shall be powered by 89 - 135 VAC, 60 Hz, single phase, and draw 0.25 amps, or by 190-270 VAC, 50 Hz, single phase, and draw 0.12 amps. If a rack mountable ACU is supplied, it shall be capable of operating from 10 to 28 VDC. The power supply shall automatically adapt to the input power level. Surge ratings shall be as set forth in the NEMA TS1 and TS2 specifications.

5.3 Serial communications to a remote computer equipped with remote monitoring software shall be through an RS-232 serial port. A 9-pin "D" subminiature connector on the front of the ACU shall be used for serial communications.

5.4 The ACU shall be equipped with a NEMA TS2 RS-485 SDLC interface for communicating input and output information. Front panel LEDs shall provide status information when communications are open.

5.5 The ACU and/or camera hookup panel shall be equipped with four RS-170 (B&W)/NTSC (color) composite video inputs for coaxial camera connections so that signals from four image sensors can be processed in real-time.

5.6 The ACU shall be equipped with a port to provide communications to a computer running the remote access software.

5.7 The ACU and/or camera hookup panels used for a rack mountable ACU shall be equipped with a video output port.

5.8 The ACU shall be equipped with viewable front panel detection LED indications.

## 6.0 Camera

6.1 The video detection system shall use medium resolution, monochrome or color, image sensors as the video source for real-time vehicle detection. As a minimum, each image sensor shall provide the following capabilities:

- a. Images shall be produced with a CCD sensing element with horizontal resolution of at least 768 lines and vertical resolution of at least 494 lines.
- b. Useable video and resolvable features in the video image shall be produced when those features have luminance levels as low as 0.1 lux at night.
- c. Useable video and resolvable features in the video image shall be produced when those features have luminance levels as high as 10,000 lux during the day.

- d. Automatic gain, automatic iris, and absolute black reference controls shall be furnished.
- e. An optical filter and appropriate electronic circuitry shall be included in the image sensor to suppress "blooming" effects at night.

6.2 The image sensor shall be equipped with an integrated zoom lens with zoom and focus capabilities that can be changed using either configuration computer software or hand-held controller. The machine vision processor (MVP) may be enclosed within the camera.

6.3 The image sensor and lens assembly shall be housed in an environmental enclosure that provides the following capabilities:

- a. The enclosure shall be waterproof and dust-tight to NEMA-4 specifications.
- b. The enclosure shall allow the image sensor to operate satisfactorily over an ambient temperature range from -35C to +60C while exposed to precipitation as well as direct sunlight.
- c. The enclosure shall allow the image sensor horizon to be rotated in the field during installation.
- d. The enclosure shall include a provision at the rear of the enclosure for connection of power and video signal cables fabricated at the factory. Input power to the environmental enclosure shall be either 115 VAC 50 Hertz or 230 V AC/DC 60 Hertz.
- e. A heater shall be at the front of the enclosure to prevent the formation of ice and condensation in cold weather, as well as to assure proper operation of the lens' iris mechanism. The heater shall not interfere with the operation of the image sensor electronics, and it shall not cause interference with the video signal.
- f. The enclosure shall be light-colored and shall include a sun shield to minimize solar heating. The front edge of the sunshield shall protrude beyond the front edge of the environmental enclosure and shall include provision to divert water flow to the sides of the sunshield. The amount of overhang of the sun shield shall be adjustable to prevent direct sunlight from entering the lens or hitting the faceplate.
- g. The total weight of the image sensor in the environmental enclosure with sunshield shall be less than 6 pounds.
- h. When operating in the environmental enclosure with power and video signal cables connected, the image sensor shall meet FCC class B requirements for electromagnetic interference emissions.

6.4 The video output of the image sensor shall be isolated from earth ground. All video connections from the image sensor to the video interface panel shall also be isolated from earth ground.

6.5 The video output, communication, and power to the image sensor shall include transient protection to prevent damage to the sensor due to transient voltages occurring on the cable leading from the image sensor to other field locations.

6.6 A stainless steel junction box shall be available as an option with each image sensor for installation on the structure used for image sensor mounting. The junction box shall contain a terminal block for terminating power to the image sensor and connection points for coaxial cables from the image sensor and from the ACU.

6.7 A video interface panel shall be included for installation inside of the traffic cabinet. The panel shall provide coaxial cable/twisted pair connection points and an Edco RMCXI-06 or approved equal transient suppressor for each image sensor. The shield side of the coaxial cable connection at the transient suppressor shall be connected to earth ground via the transient suppressor.

If the coaxial cable/twisted pair used to connect the video signal from the image sensor to the ACU are to be routed through a conduit containing unbundled AC power cables, a video isolation amplifier shall be installed in addition to the video interface panel if interference is present. There will be no additional compensation for providing the video isolation amplifier if necessitated by the presence of video interference. The isolation amplifier shall buffer the video signal and provide transient suppression. The isolation amplifier shall have a minimum common mode rejection ratio at 60 Hz of 100 dB.

6.8 The image sensor shall be connected to the ACU such that the video signal originating from the image sensor is not attenuated more than 3 dB when measured at the ACU. When the connection between the image sensor and the ACU is coaxial cable, the coaxial cable used shall be a low loss 75 ohm precision video cable suited for outdoor installation, such as Belden 8281, West Penn P806, or approved equal.

#### Software

7.1 The system shall include the remote access software that is used to setup and configure the video detection system. The software shall be of the latest revision.

All necessary cable, adapters, and other equipment shall be included with the system.

#### 8.0 Installation and Training

8.1 The supplier of the video detection system shall supervise the installation and testing of the video and video vehicle detection equipment. A factory certified representative from the supplier shall be on-site during installation.

8.2 Training shall be available upon request.

#### 9.0 Warranty, Maintenance, and Support

9.1 The video detection system shall be warranted by its supplier for a minimum of two (2) years from date of turn-on. This warranty shall cover all material defects and shall also provide all parts and labor as well as unlimited technical support.

9.2 Ongoing software support by the supplier shall include updates of the ACU and supervisor software. These updates shall be provided free of charge during the warranty period.

9.3 The supplier shall maintain a program for technical support and software updates following expiration of the warranty period. This program shall be made available to the contracting agency in the form of a separate agreement for continuing support.

Basis of Payment: The above work will be paid for at the contract unit price per Each for VIDEO VEHICLE DETECTION SYSTEM which price will be payment in full for all labor, equipment, and materials required to supply, install, configure, and test the video vehicle detection system described above, complete.

#### **EMERGENCY VEHICLE SIGNAL CONTROL SYSTEM**

This work shall be performed in accordance with manufacturer's specifications and with Section 887 of the "Standard Specifications for Road and Bridge Construction".

Emergency Vehicle Priority System shall be compatible with the system in place within the Harlem-Rose Fire Protection District #1. Chief Don Shoevlin, (815) 623-7867, of the Harlem-Rose Fire Protection District #1 shall be contacted verify that the system is operating properly with the equipment in place on their emergency vehicles.

EMERGENCY VEHICLE SIGNAL CONTROL SYSTEM cost shall include the following items:

1. LIGHT DETECTOR AMPLIFIER

The emergency preemption system shall be the "Tomar/Optronix Optical Preemption System. The light detector amplifier shall be the Tomar 2140 card and backed with a four-channel capacity. The System shall have ID capability with necessary software included so that events can be down loaded to a laptop.

2. CONFIRMATION BEACON

This work shall be performed in accordance with the Manufacturer's specifications and with Section 1072 of the "Standard Specifications for Road and Bridge Construction".

3. ELECTRIC CABLE IN CONDUIT, SIGNAL No. 20 3C

This item shall be to supply the following electric cable for use with the emergency vehicle priority system.

Cable: the cable shall meet requirements for IPCEA-S-61-402/NEMA WC 5, Section 7.4, 600 volt control cable, 75 degree C, Type B, and following:

The cable shall contain 3 conductors, each of which shall be #20 (7x28) stranded, tinned copper with 25 mil minimum average thickness low density polyethylene insulation. Insulation shall be color coded: 1-yellow, 1-blue, and 1-orange.

The shield shall be aluminized polyester film with a nominal 20% overlap. A #20 (7x28) stranded, tinned, bare drain wire shall be placed between the insulated conductors and shield and in the contact with the conductive surface of the shield.

The jacket shall be black PVC with minimum ratings of 600 volts and 80 degrees C and minimum thickness of 45 mils. The jacket shall be marked as required by IPCEA/NEMA.

The finished outside diameter of the cable shall not exceed 0.335 inch.

The capacitance as measured between any conductor and the other conductors and the shield shall not exceed 40 pico farads per foot at 100 Hz.

This work shall be paid for at the contract unit price per Each for EMERGENCY VEHICLE SIGNAL CONTROL SYSTEM, which price shall be payment in full for furnishing and installing the cable equipment as described above.

**SIGN PANEL – TYPE SPECIFIED (SPECIAL)**

This item of work shall include furnishing and erecting street name sign panels on mast arms at the locations shown on the plans.

Signs shall be fabricated according to Section 720 of the "Standard Specifications for Road and Bridge Construction" as modified herein. The shape, size and configuration of the signs shall conform to the details in the plans. All sign faces, sign legends, and supplemental panels shall be reflectorized and of the color specified herein. The sign face shall be green and the legend and borders shall be white.

Method of Measurement. This item of work will be measured for payment in square feet for furnishing and erecting the signs as required in the plans, specifications and these Special Provisions.

Basis of Payment. This work will be paid for at the contract unit price per Square Foot for SIGN PANEL – TYPE SPECIFIED (SPECIAL), which price shall be payment in full for all labor, materials, transportation, handling and incidentals necessary to furnish and erect the signs.

### **ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)**

This work shall be in accordance with the applicable Articles of Sections 806, 817 and 1066 of the Standard Specifications with the following modifications:

This work shall consist of furnishing and installing a grounding wire to connect all mast arm assemblies to the system ground at the service disconnect. This wire shall not be bonded to any component within the controller cabinet. The proposed ground wire shall be an insulated #6 XLP green copper conductor. This wire shall be bonded to all items and their associated ground rods utilizing mechanical lugs and bolts. This wire shall be made continuous by splicing in the adjacent handholes with compression lugs. Split bolts shall not be allowed.

The grounding wire shall be bonded to the grounded conductor at the service disconnect per the NEC.

When the lighting system is supplied by the same source as the signals, the lighting ground conductor may be utilized to provide the required signal equipment ground. All signal poles that are part of a lighting system shall be considered grounded as required by this provision.

All clamps, hardware, and other materials required shall be included in the bid price.

Basis of Payment: This work will be paid for at the contract unit price per Foot for ELECTRIC CABLE IN CONDUIT, GROUNDING NO 6 1C (Green) which price shall be payment in full for all labor, materials, and equipment required to provide the grounding system described above.

### **ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C**

This work consists of furnishing and installing an electric cable of the type, size, and number of conductors specified in accordance with the applicable requirements of Section 873 of the Standard Specifications.

Basis of Payment: This work shall be paid for at the contract unit price per Foot for ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C.

### **LIGHTING CONTROLLER, SPECIAL**

This work consists of furnishing and installing an electric lighting controller in accordance with sections 825 and section 1068 of the Standard Specifications. The controller shall include breakers and wiring as indicated in the plans for distribution of power to power pedestals.

Basis of Payment: This work shall be paid for at the contract unit price per Each for LIGHTING CONTROLLER, SPECIAL. Price shall include all material, equipment and labor necessary to complete this work as specified to the satisfaction of the Engineer.

### **TRAFFIC SIGNAL POST & STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, SPECIAL**

This work shall consist of furnishing ornamental traffic signal posts and steel combination mast arm assemblies and poles of the length specified and installing them on concrete foundations according to the Millerbernd shop drawings provided in these plans and Sections 875 and 877 of the Standard Specifications.

Basis of Payment: This work shall be paid for at the contract unit price per Each for TRAFFIC SIGNAL POST, SPECIAL of the type and length specified and STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, SPECIAL of signal arm length specified. Price shall include all material, equipment and labor necessary to complete this work as specified to the satisfaction of the Engineer.

### **LIGHTING CONTROLLER, SPECIAL**

This work shall consist of furnishing and installing an electrical cabinet with control devices, distribution equipment, and wiring for control of the roadway lighting at the intersection. The lighting controller with photocell shall be mounted to the exterior of the traffic signal controller cabinet. This work shall be in accordance with Section 825 of the "Standard Specifications for Road and Bridge Construction."

The lighting shall operate on 120 volts.

The cabinet shall have an aluminum finish.

Basis of Payment: This work will be paid for at the contract unit price each for LIGHTING CONTROLLER, SPECIAL, which price shall be payment in full for furnishing the equipment described above and installing it in satisfactory condition.

### **TEMPORARY LIGHTING SYSTEM**

This work shall consist of providing a temporary lighting system at the intersections of IL Route 173 with IL Route 251, Orlando Street, Alpine Road and Continental Drive. The Contractor shall provide all labor, material, and equipment necessary to furnish, install, maintain, and remove the temporary lighting system, and pay all utility charges associated with it. The temporary lighting system at IL Route 173 and Continental Drive shall remain in service until permanent traffic signals and combination lighting are installed during a future contract.

This work shall also include the relocation of temporary lighting facilities as necessary to accommodate the various stages of construction and removal of all temporary lighting facilities at the completion of the project. All work shall be performed in accordance with the plans, Standard Specifications, and as directed by the Engineer.

The temporary luminaires shall be installed on fifteen foot mast arms attached to the temporary traffic signal wood poles. Four luminaires and mast arms shall be installed per intersection, with one mast arm and luminaire being installed per wood pole. The Contractor shall furnish and install additional mast arms and luminaires if needed, as directed by the Engineer. Luminaires shall be horizontal mount, 400 Watt high pressure sodium. The luminaire mounting height shall be 45 feet.

The Contractor shall not purchase temporary lighting facilities until the Contractor has submitted shop drawings and received the Engineer's approval to proceed. All temporary lighting facilities shall become property of the Contractor and shall be removed from the site at no additional cost. Any temporary lighting materials used by the Contractor which come from stock rather than being purchased new for this project shall require written approval by the Engineer.

The Contractor shall be responsible to maintain the temporary lighting system throughout the project and no additional compensation will be allowed for this work, no matter how many times temporary and/or permanent lighting facilities are relocated. The Contractor shall furnish to the Engineer the names and phone numbers of two persons responsible for call-out work on the lighting system on a 24/7 basis.

Cable splicing, luminaire fusing, and lighting protection shall be submitted for the District's approval. All work required to keep the temporary and/or permanent lighting systems operational shall be at the Contractor's expense. No lighting circuit or portion thereof shall be removed from nighttime operation without the approval of the Engineer.

An inspection and approval by the Engineer shall take place before the temporary lighting system or modified system is approved for operation. All burnouts shall be replaced on a next day basis and temporary wiring shall be installed as necessary to keep all lights functioning every night.

The Contractor shall be responsible for all costs associated with providing service to the lighting system as the project progresses through the various stages of construction and circuit orientation changes. This shall include all costs of coordinating with the local utility for new and/or relocated electric service and metering.

The Contractor shall pay all energy charges associated with the lighting. Any energy charges which the Contractor would like to present to the Department for reimbursement shall be properly metered, billed, and prorated by the Contractor at no cost to the Department. The only energy charges which will be considered by the Department for reimbursement are those associated with existing or permanent lighting facilities that are identified and agreed to by the Engineer in writing at the time the Contractor's detailed lighting design plan is approved.

The Contractor shall be reimbursed for repair of accident damage according to Articles 105.13 and 107.30 of the Standard Specifications.

Basis of Payment: This work shall be paid for at the contract lump sum price for TEMPORARY LIGHTING SYSTEM.

**ALKALI-SILICA REACTION FOR CAST-IN-PLACE CONCRETE (BDE)**

Effective: August 1, 2007

Revised: January 1, 2009

Description. This special provision is intended to reduce the risk of a deleterious alkali-silica reaction in concrete exposed to humid or wet conditions. The special provision is not intended or adequate for concrete exposed to potassium acetate, potassium formate, sodium acetate or sodium formate. The special provision shall not apply to the dry environment (humidity less than 60 percent) found inside buildings for residential or commercial occupancy. The special provision shall also not apply to precast products or precast prestressed products.

Aggregate Expansion Values. Each coarse and fine aggregate will be tested by the Department for alkali reaction according to ASTM C 1260. The test will be performed with Type I or II cement having a total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.90 percent or greater. The Engineer will determine the assigned expansion value for each aggregate, and these values will be made available on the Department's Alkali-Silica Potential Reactivity Rating List. The Engineer may differentiate aggregate based on ledge, production method, gradation number, or other factors. An expansion value of 0.05 percent will be assigned to limestone or dolomite coarse aggregates and 0.03 percent to limestone or dolomite fine aggregates (manufactured stone sand); however the Department reserves the right to perform the ASTM C 1260 test.

Aggregate Groups. Each combination of aggregates used in a mixture will be assigned to an aggregate group. The point at which the coarse aggregate and fine aggregate expansion values intersect in the following table will determine the group.

| AGGREGATE GROUPS  |   |                 |           |
|---|---|-----------------|-----------|
| Coarse Aggregate<br>or<br>Coarse Aggregate Blend<br><br>ASTM C 1260 Expansion | Fine Aggregate<br>or<br>Fine Aggregate Blend<br><br>ASTM C 1260 Expansion |                 |           |
|   | ≤ 0.16%   | > 0.16% - 0.27% | > 0.27%   |
| ≤ 0.16%   | Group I   | Group II        | Group III |
| > 0.16% - 0.27%   | Group II  | Group II        | Group III |
| > 0.27%   | Group III   | Group III       | Group IV  |

Mixture Options. Based upon the aggregate group, the following mixture options shall be used; however, the Department may prohibit a mixture option if field performance shows a deleterious alkali-silica reaction or Department testing indicates the mixture may experience a deleterious alkali-silica reaction.

- Group I - Mixture options are not applicable. Use any cement or finely divided mineral.
- Group II - Mixture options 1, 2, 3, 4, or 5 shall be used.
- Group III - Mixture options 1, 2 and 3 combined, 4, or 5 shall be used.
- Group IV - Mixture options 1, 2 and 4 combined, or 5 shall be used.

For Class PP-3 concrete the mixture options are not applicable, and any cement may be used with the specified finely divided minerals.

- a) Mixture Option 1. The coarse or fine aggregates shall be blended to place the material in a group that will allow the selected cement or finely divided mineral to be used.

When a coarse or fine aggregate is blended, the weighted expansion value shall be calculated separately for the coarse and fine aggregate as follows:

$$\text{Weighted Expansion Value} = (a/100 \times A) + (b/100 \times B) + (c/100 \times C) + \dots$$

Where: a, b, c... = percentage of aggregate in the blend;  
A, B, C...= expansion value for that aggregate.

b) Mixture Option 2. A finely divided mineral shall be used as described in 1), 2), 3), or 4) that follow. The replacement ratio is defined as "finely divided mineral:portland cement".

1) Class F Fly Ash. For Class PV, BS, MS, DS, SC, and SI concrete and cement aggregate mixture II (CAM II), Class F fly ash shall replace 15 percent of the portland cement at a minimum replacement ratio of 1.5:1.

2) Class C Fly Ash. For Class PV, MS, SC, and SI Concrete, Class C fly ash with 18 percent to less than 26.5 percent calcium oxide content, and less than 2.0 percent loss on ignition, shall replace 20 percent of the portland cement at a minimum replacement ratio of 1:1; or at a minimum replacement ratio of 1.25:1 if the loss on ignition is 2.0 percent or greater. Class C fly ash with less than 18 percent calcium oxide content shall replace 20 percent of the portland cement at a minimum replacement ratio of 1.25:1.

For Class PP-1, RR, BS, and DS concrete and CAM II, Class C fly ash with less than 26.5 percent calcium oxide content shall replace 15 percent of the portland cement at a minimum replacement ratio of 1.5:1.

3) Ground Granulated Blast-Furnace Slag. For Class PV, BS, MS, SI, DS, and SC concrete, ground granulated blast-furnace slag shall replace 25 percent of the portland cement at a minimum replacement ratio of 1:1.

For Class PP-1 and RR concrete, ground granulated blast-furnace slag shall replace 15 percent of the portland cement at a minimum replacement ratio of 1.5:1.

For Class PP-2, ground granulated blast-furnace slag shall replace 25 to 30 percent of the portland cement at a minimum replacement ratio of 1:1.

4) Microsilica or High Reactivity Metakaolin. Microsilica solids or high reactivity metakaolin shall be added to the mixture at a minimum 25 lb/cu yd (15 kg/cu m) or 27 lb/cu yd (16 kg/cu m) respectively.

c) Mixture Option 3. The cement used shall have a maximum total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.60 percent. When aggregate in Group II is involved, any finely divided mineral may be used with a portland cement.

d) Mixture Option 4. The cement used shall have a maximum total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.45 percent. When aggregate in Group II or III is involved, any finely divided mineral may be used with a portland cement.

- e) Mixture Option 5. The proposed cement or finely divided mineral may be used if the ASTM C 1567 expansion value is  $\leq 0.16$  percent when performed on the aggregate in the concrete mixture with the highest ASTM C 1260 test result. The ASTM C 1567 test will be valid for two years, unless the Engineer determines the materials have changed significantly. For latex concrete, the ASTM C 1567 test shall be performed without the latex. The 0.20 percent autoclave expansion limit in ASTM C 1567 shall not apply.

If during the two year time period the Contractor needs to replace the cement, and the replacement cement has an equal or lower total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ), a new ASTM C 1567 test will not be required.

Testing. If an individual aggregate has an ASTM C 1260 expansion value  $> 0.16$  percent, an ASTM C 1293 test may be performed by the Contractor to evaluate the Department's ASTM C 1260 test result. The ASTM C 1293 test shall be performed with Type I or II cement having a total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.80 percent or greater. The interior vertical wall of the ASTM C 1293 recommended container (pail) shall be half covered with a wick of absorbent material consisting of blotting paper. If the testing laboratory desires to use an alternate container or wick of absorbent material, ASTM C 1293 test results with an alkali-reactive aggregate of known expansion characteristics shall be provided to the Engineer for review and approval. If the expansion is less than 0.040 percent after one year, the aggregate will be assigned an ASTM C 1260 expansion value of 0.08 percent that will be valid for two years, unless the Engineer determines the aggregate has changed significantly.

The Engineer reserves the right to verify a Contractor's ASTM C 1293 or 1567 test result. The Engineer will not accept the result if the precision and bias for the test methods are not met.

The laboratory performing the ASTM C 1567 test shall either be accredited by the AASHTO Materials Reference Laboratory (AMRL) for ASTM C 227 under Portland Cement Concrete or Aggregate; or shall be inspected for Hydraulic Cement - Physical Tests by the Cement and Concrete Reference Laboratory (CCRL) and shall be approved by the Department. The laboratory performing the ASTM C 1293 test shall be inspected for Portland Cement Concrete by CCRL and shall be approved by the Department.

## **ALKALI-SILICA REACTION FOR PRECAST AND PRECAST PRESTRESSED CONCRETE (BDE)**

Effective: January 1, 2009

Description. This special provision is intended to reduce the risk of a deleterious alkali-silica reaction in precast and precast prestressed concrete exposed to humid or wet conditions. The special provision is not intended or adequate for concrete exposed to potassium acetate, potassium formate, sodium acetate or sodium formate. The special provision shall not apply to the dry environment (humidity less than 60 percent) found inside buildings for residential or commercial occupancy. The special provision shall also not apply to cast-in-place concrete.

Aggregate Expansion Values. Each coarse and fine aggregate will be tested by the Department for alkali reaction according to ASTM C 1260. The test will be performed with Type I or II cement having a total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.90 percent or greater. The Engineer will determine the assigned expansion value for each aggregate, and these values will be made available on the Department's Alkali-Silica Potential Reactivity Rating List.

The Engineer may differentiate aggregate based on ledge, production method, gradation number, or other factors. An expansion value of 0.05 percent will be assigned to limestone or dolomite coarse aggregates and 0.03 percent to limestone or dolomite fine aggregates (manufactured stone sand); however the Department reserves the right to perform the ASTM C 1260 test.

Aggregate Groups. Each combination of aggregates used in a mixture will be assigned to an aggregate group. The point at which the coarse aggregate and fine aggregate expansion values intersect in the following table will determine the group.

| AGGREGATE GROUPS  |   |                 |           |
|---|---|-----------------|-----------|
| Coarse Aggregate<br>or<br>Coarse Aggregate Blend<br><br>ASTM C 1260 Expansion | Fine Aggregate<br>or<br>Fine Aggregate Blend<br><br>ASTM C 1260 Expansion |                 |           |
|   | ≤ 0.16%   | > 0.16% - 0.27% | > 0.27%   |
| ≤ 0.16%   | Group I   | Group II        | Group III |
| > 0.16% - 0.27%   | Group II  | Group II        | Group III |
| > 0.27%   | Group III   | Group III       | Group IV  |

Mixture Options. Based upon the aggregate group, the following mixture options shall be used; however, the Department may prohibit a mixture option if field performance shows a deleterious alkali-silica reaction or Department testing indicates the mixture may experience a deleterious alkali-silica reaction.

- Group I - Mixture options are not applicable. Use any cement or finely divided mineral.
- Group II - Mixture options 1, 2, 3, 4, or 5 shall be used.
- Group III - Mixture options 1, 2 and 3 combined, 4, or 5 shall be used.
- Group IV - Mixture options 1, 2 and 4 combined, or 5 shall be used.

- a) Mixture Option 1. The coarse or fine aggregates shall be blended to place the material in a group that will allow the selected cement or finely divided mineral to be used.

When a coarse or fine aggregate is blended, the weighted expansion value shall be calculated separately for the coarse and fine aggregate as follows:

$$\text{Weighted Expansion Value} = (a/100 \times A) + (b/100 \times B) + (c/100 \times C) + \dots$$

Where: a, b, c... = percentage of aggregate in the blend;  
 A, B, C... = expansion value for that aggregate.

- b) Mixture Option 2. A finely divided mineral shall be used as described in 1), 2), 3), or 4) that follow. The replacement ratio is defined as "finely divided mineral:portland cement".
  - 1) Class F Fly Ash. For Class PC concrete, precast products, and PS concrete, Class F fly ash shall replace 15 percent of the portland cement at a minimum replacement ratio of 1.5:1.

- 2) Class C Fly Ash. For Class PC Concrete, precast products, and Class PS concrete, Class C fly ash with 18 percent to less than 26.5 percent calcium oxide content, and less than 2.0 percent loss on ignition, shall replace 20 percent of the portland cement at a minimum replacement ratio of 1:1; or at a minimum replacement ratio of 1.25:1 if the loss on ignition is 2.0 percent or greater. Class C fly ash with less than 18 percent calcium oxide content shall replace 20 percent of the portland cement at a minimum replacement ratio of 1.25:1.
  - 3) Ground Granulated Blast-Furnace Slag. For Class PC concrete, precast products, and Class PS concrete, ground granulated blast-furnace slag shall replace 25 percent of the portland cement at a minimum replacement ratio of 1:1.
  - 4) Microsilica or High Reactivity Metakaolin. Microsilica solids or high reactivity metakaolin shall be added to the mixture at a minimum 25 lb/cu yd (15 kg/cu m) or 27 lb/cu yd (16 kg/cu m) respectively.
- c) Mixture Option 3. The cement used shall have a maximum total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.60 percent. When aggregate in Group II is involved, any finely divided mineral may be used with a portland cement.
  - d) Mixture Option 4. The cement used shall have a maximum total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.45 percent. When aggregate in Group II or III is involved, any finely divided mineral may be used with a portland cement.
  - e) Mixture Option 5. The proposed cement or finely divided mineral may be used if the ASTM C 1567 expansion value is  $\leq 0.16$  percent when performed on the aggregate in the concrete mixture with the highest ASTM C 1260 test result. The ASTM C 1567 test will be valid for two years, unless the Engineer determines the materials have changed significantly. The 0.20 percent autoclave expansion limit in ASTM C 1567 shall not apply.

If during the two year time period the Contractor needs to replace the cement, and the replacement cement has an equal or lower total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ), a new ASTM C 1567 test will not be required.

Testing. If an individual aggregate has an ASTM C 1260 expansion value  $> 0.16$  percent, an ASTM C 1293 test may be performed by the Contractor to evaluate the Department's ASTM C 1260 test result. The ASTM C 1293 test shall be performed with Type I or II cement having a total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ) of 0.80 percent or greater. The interior vertical wall of the ASTM C 1293 recommended container (pail) shall be half covered with a wick of absorbent material consisting of blotting paper. If the testing laboratory desires to use an alternate container or wick of absorbent material, ASTM C 1293 test results with an alkali-reactive aggregate of known expansion characteristics shall be provided to the Engineer for review and approval. If the expansion is less than 0.040 percent after one year, the aggregate will be assigned an ASTM C 1260 expansion value of 0.08 percent that will be valid for two years, unless the Engineer determines the aggregate has changed significantly.

The Engineer reserves the right to verify a Contractor's ASTM C 1293 or 1567 test result. The Engineer will not accept the result if the precision and bias for the test methods are not met.

The laboratory performing the ASTM C 1567 test shall either be accredited by the AASHTO Materials Reference Laboratory (AMRL) for ASTM C 227 under Portland Cement or Aggregate; or shall be inspected for Hydraulic Cement - Physical Tests by the Cement and Concrete Reference Laboratory (CCRL) and shall be approved by the Department. The laboratory performing the ASTM C 1293 test shall be inspected for Portland Cement Concrete by CCRL and shall be approved by the Department.

## **APPROVAL OF PROPOSED BORROW AREAS, USE AREAS, AND/OR WASTE AREAS (BDE)**

Effective: November 1, 2008

Revised: November 1, 2010

Replace the first paragraph of Article 107.22 of the Standard Specifications with the following:

“All proposed borrow areas, including commercial borrow areas; use areas, including, but not limited to temporary access roads, detours, runarounds, plant sites, and staging and storage areas; and/or waste areas are to be designated by the Contractor to the Engineer and approved prior to their use. Such areas outside the State of Illinois shall be evaluated, at no additional cost to the Department, according to the requirements of the state in which the area lies; and approval by the authority within that state having jurisdiction for such areas shall be forwarded to the Engineer. Such areas within Illinois shall be evaluated as described herein.

A location map delineating the proposed borrow area, use area, and/or waste area shall be submitted to the Engineer for approval along with an agreement from the property owner granting the Department permission to enter the property and conduct cultural and biological resource reconnaissance surveys of the site for archaeological resources, threatened or endangered species or their designated essential habitat, wetlands, prairies, and savannahs. The type of location map submitted shall be a topographic map, a plat map, or a 7.5 minute quadrangle map. Submittals shall include the intended use of the site and provide sufficient detail for the Engineer to determine the extent of impacts to the site. The Engineer will initiate cultural and biological resource reconnaissance surveys of the site, as necessary, at no cost to the Contractor. The Engineer will advise the Contractor of the expected time required to complete all surveys. If the proposed area is within 150 ft (45 m) of the highway right-of-way, a topographic map of the proposed site will be required as specified in Article 204.02.”

## **CEMENT (BDE)**

Effective: January 1, 2007

Revised: April 1, 2011

Revise Section 1001 of the Standard Specifications to read:

### **“SECTION 1001. CEMENT**

**1001.01 Cement Types.** Cement shall be according to the following.

- (a) Portland Cement. Acceptance of portland cement shall be according to the current Bureau of Materials and Physical Research’s Policy Memorandum, “Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants”.

Portland cement shall be according to AASHTO M 85, and shall meet the standard physical and chemical requirements.

The Contractor has the option to use any type of portland cement listed in AASHTO M 85 unless a specific cement is specified for a construction item. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302, Class C or F fly ash according to the chemical requirements of AASHTO M 295, and cement kiln dust.

- (b) Portland-Pozzolan Cement. Acceptance of portland-pozzolan cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland-pozzolan cement shall be according to AASHTO M 240 and shall meet the standard physical and chemical requirements. The Contractor has the option to use portland-pozzolan cement unless a specific cement is specified for a construction item. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302, Class C or F fly ash according to the chemical requirements of AASHTO M 295, and cement kiln dust. The pozzolan constituent for Type IP using Class F fly ash shall be a maximum of 25 percent of the weight (mass) of the portland-pozzolan cement. The pozzolan constituent for Type IP using Class C fly ash shall be a maximum of 30 percent of the weight (mass) of the portland-pozzolan cement. The pozzolan constituent for Type IP using microsilica or high-reactivity metakaolin shall be a maximum of ten percent. The pozzolan constituent for Type IP using other materials shall have the approval of the Engineer.

Portland-pozzolan cement may be used in concrete mixtures when the air temperature is below 40 °F (4 °C), but the Engineer may request a trial batch of the concrete mixture to show the mix design strength requirement will be met.

- (c) Portland Blast-Furnace Slag Cement. Acceptance of portland blast-furnace slag cement shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants".

Portland blast-furnace slag cement shall be according to AASHTO M 240 and shall meet the standard physical and chemical requirements. The Contractor has the option to use portland blast-furnace slag cement unless a specific cement is specified for a construction item. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302, Class C or F fly ash according to the chemical requirements of AASHTO M 295, and cement kiln dust. The blast-furnace slag constituent for Type IS shall be a maximum of 35 percent of the weight (mass) of the portland blast-furnace slag cement.

Portland blast-furnace slag cement may be used in concrete mixtures when the air temperature is below 40 °F (4 °C), but the Engineer may request a trial batch of the concrete mixture to show the mix design strength requirement will be met.

- (d) Rapid Hardening Cement. Rapid hardening cement shall be used according to Article 1020.04 or when approved by the Engineer. The cement shall be on the Department's current "Approved List of Packaged, Dry, Rapid Hardening Cementitious Materials for Concrete Repairs", and shall be according to the following.

- (1) The cement shall have a maximum final set of 25 minutes, according to Illinois Modified AASHTO T 131.
  - (2) The cement shall have a minimum compressive strength of 2000 psi (13,800 kPa) at 3.0 hours, 3200 psi (22,100 kPa) at 6.0 hours, and 4000 psi (27,600 kPa) at 24.0 hours, according to Illinois Modified AASHTO T 106.
  - (3) The cement shall have a maximum drying shrinkage of 0.050 percent at seven days, according to Illinois Modified ASTM C 596.
  - (4) The cement shall have a maximum expansion of 0.020 percent at 14 days, according to Illinois Modified ASTM C 1038.
  - (5) The cement shall have a minimum 80 percent relative dynamic modulus of elasticity; and shall not have a weight (mass) gain in excess of 0.15 percent or a weight (mass) loss in excess of 1.0 percent, after 100 cycles, according to Illinois Modified AASHTO T 161, Procedure B.
- (e) Calcium Aluminate Cement. Calcium aluminate cement shall be used according to Article 1020.04 or when approved by the Engineer. The cement shall meet the standard physical requirements for Type I cement according to AASHTO M 85, except the time of setting shall not apply. The chemical requirements shall be determined according to AASHTO T 105 and shall be as follows: minimum 38 percent aluminum oxide ( $Al_2O_3$ ), maximum 42 percent calcium oxide (CaO), maximum 1 percent magnesium oxide (MgO), maximum 0.4 percent sulfur trioxide ( $SO_3$ ), maximum 1 percent loss on ignition, and maximum 3.5 percent insoluble residue.

**1001.02 Uniformity of Color.** Cement contained in single loads or in shipments of several loads to the same project shall not have visible differences in color.

**1001.03 Mixing Brands and Types.** Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall not be mixed or used alternately in the same item of construction unless approved by the Engineer.

**1001.04 Storage.** Cement shall be stored and protected against damage, such as dampness which may cause partial set or hardened lumps. Different brands or different types of cement from the same manufacturing plant, or the same brand or type from different plants shall be kept separate.”

## **CERTIFICATION OF METAL FABRICATOR (BDE)**

Effective: July 1, 2010

Revise Article 106.08 of the Standard Specifications to read:

**“106.08 Certification of Metal Fabricator.** All fabricators performing work on metal components of structures shall be certified under the appropriate category of the AISC Quality Certification Program as follows.

- (a) Fabricators of the main load carrying steel components of welded plate girder, box girder, truss, and arch structures shall be certified under Category MBr (Major Steel Bridges).

- (b) Fabricators of the main load carrying steel components of rolled beam structures, either simple span or continuous, and overhead sign structures shall be certified under Category SBr (Simple Steel Bridges).

Fabricators of steel or other non-ferrous metal components of structures not certified under (a) or (b) above shall be certified under the program for Bridge and Highway Metal Component Manufacturers.”

### **CONCRETE ADMIXTURES (BDE)**

Effective: January 1, 2003

Revised: April 1, 2009

Replace the first paragraph of Article 1020.05(b) of the Standard Specifications to read:

“(b) Admixtures. The use of admixtures to increase the workability or to accelerate the hardening of the concrete will be permitted when approved by the Engineer. Admixture dosages shall result in the mixture meeting the specified plastic and hardened properties. The Department will maintain an Approved List of Corrosion Inhibitors. Corrosion inhibitor dosage rates shall be according to Article 1020.05(b)(12). The Department will also maintain an Approved List of Concrete Admixtures, and an admixture technical representative shall be consulted when determining an admixture dosage from this list. The dosage shall be within the range indicated on the approved list unless the influence by other admixtures, jobsite conditions (such as a very short haul time), or other circumstances warrant a dosage outside the range. The Engineer shall be notified when a dosage is proposed outside the range. To determine an admixture dosage, air temperature, concrete temperature, cement source and quantity, finely divided mineral sources(s) and quantity, influence of other admixtures, haul time, placement conditions, and other factors as appropriate shall be considered. The Engineer may request the Contractor to have a batch of concrete mixed in the lab or field to verify the admixture dosage is correct. An admixture dosage or combination of admixture dosages shall not delay the initial set of concrete by more than one hour. When a retarding admixture is required or appropriate for a bridge deck or bridge deck overlay pour, the initial set time shall be delayed until the deflections due to the concrete dead load are no longer a concern for inducing cracks in the completed work. However, a retarding admixture shall not be used to further extend the pour time and justify the alteration of a bridge deck pour sequence.

When determining water in admixtures for water/cement ratio, the Contractor shall calculate 70 percent of the admixture dosage as water, except a value of 50 percent shall be used for a latex admixture used in bridge deck latex concrete overlays.”

Revise Section 1021 of the Standard Specifications to read:

### **“SECTION 1021. CONCRETE ADMIXTURES**

**1021.01 General.** Admixtures shall be furnished in liquid form ready for use. The admixtures shall be delivered in the manufacturer's original containers, bulk tank trucks or such containers or tanks as are acceptable to the Engineer. Delivery shall be accompanied by a ticket which clearly identifies the manufacturer and trade name of the material. Containers shall be readily identifiable as to manufacturer and trade name of the material they contain.

Corrosion inhibitors will be maintained on the Department's Approved List of Corrosion Inhibitors. All other concrete admixture products will be maintained on the Department's Approved List of Concrete Admixtures. For the admixture submittal, a report prepared by an independent laboratory accredited by the AASHTO Materials Reference Laboratory (AMRL) for Portland Cement Concrete shall be provided. The report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications. However, for corrosion inhibitors the ASTM G 109 test information specified in ASTM C 1582 is not required to be from an independent lab. All other information in ASTM C 1582 shall be from an independent lab.

Tests shall be conducted using materials and methods specified on a "test" concrete and a "reference" concrete, together with a certification that no changes have been made in the formulation of the material since the performance of the tests. Per the manufacturer's option, the cement content for all required tests shall either be according to applicable specifications or 5.65 cwt/cu yd (335 kg/cu m). Compressive strength test results for six months and one year will not be required.

Prior to the approval of an admixture, the Engineer reserves the right to request a sample for testing. The test and reference concrete mixtures tested by the Engineer will contain a cement content of 5.65 cwt/cu yd (335 kg/cu m). For freeze-thaw testing, the Department will perform the test according to AASHTO T 161, Procedure B. The flexural strength test will be performed according to AASHTO T 177. If the Engineer decides to test the admixture, the manufacturer shall submit AASHTO T 197 water content and set time test results on the standard cement used by the Department. The test and reference concrete mixture shall contain a cement content of 5.65 cwt/cu yd (335 kg/cu m). The manufacturer may select their lab or an independent lab to perform this testing. The laboratory is not required to be accredited by AASHTO.

The manufacturer shall include in the submittal the following admixture information: the manufacturing range for specific gravity, the midpoint and manufacturing range for residue by oven drying, and the manufacturing range for pH. The submittal shall also include an infrared spectrophotometer trace no more than five years old.

For air-entraining admixtures according to Article 1021.02, the specific gravity allowable manufacturing range shall be established by the manufacturer and the test method shall be according to ASTM C 494. For residue by oven drying and pH, the allowable manufacturing range and test methods shall be according to ASTM C 260.

For admixtures according to Articles 1021.03, 1021.04, 1021.05, 1021.06, and 1021.07, the pH allowable manufacturing range shall be established by the manufacturer and the test method shall be according to ASTM E 70. For specific gravity and residue by oven drying, the allowable manufacturing range and test methods shall be according to ASTM C 494.

When test results are more than seven years old, the manufacturer shall re-submit the infrared spectrophotometer trace and the report prepared by an independent laboratory accredited by AASHTO.

All admixtures, except chloride-based accelerators, shall contain a maximum of 0.3 percent chloride by weight (mass).

Random field samples may be taken by the Department to verify an admixture meets specification. A split sample will be provided to the manufacturer if requested. Admixtures that do not meet specification requirements or an allowable manufacturing range established by the manufacturer shall be replaced with new material.

**1021.02 Air-Entraining Admixtures.** Air-entraining admixtures shall be according to AASHTO M 154.

**1021.03 Retarding and Water-Reducing Admixtures.** The admixture shall be according to the following.

- (a) The retarding admixture shall be according to AASHTO M 194, Type B (retarding) or Type D (water-reducing and retarding).
- (b) The water-reducing admixture shall be according to AASHTO M 194, Type A.
- (c) The high range water-reducing admixture shall be according to AASHTO M 194, Type F (high range water-reducing) or Type G (high range water-reducing and retarding).

**1021.04 Accelerating Admixtures.** The admixture shall be according to AASHTO M 194, Type C (accelerating) or Type E (water reducing and accelerating).

**1021.05 Self-Consolidating Admixtures.** The self-consolidating admixture system shall consist of either a high range water-reducing admixture only or a high range water-reducing admixture combined with a separate viscosity modifying admixture. The one or two component admixture system shall be capable of producing a concrete mixture that can flow around reinforcement and consolidate under its own weight without additional effort and without segregation.

The high range water-reducing admixture shall be according to AASHTO M 194, Type F.

The viscosity modifying admixture shall be according to ASTM C 494, Type S (specific performance).

**1021.06 Rheology-Controlling Admixture.** The rheology-controlling admixture shall be capable of producing a concrete mixture with a lower yield stress that will consolidate easier for slipform applications used by the Contractor. The rheology-controlling admixture shall be according to ASTM C 494, Type S (specific performance).

**1021.07 Corrosion Inhibitor.** The corrosion inhibitor shall be according to one of the following.

- (a) Calcium Nitrite. The corrosion inhibitor shall contain a minimum 30 percent calcium nitrite by weight (mass) of solution, and shall comply with the requirements of AASHTO M 194, Type C (accelerating).
- (b) Other Materials. The corrosion inhibitor shall be according to ASTM C 1582.”

## **CONCRETE JOINT SEALER (BDE)**

Effective: January 1, 2009

Add the following to the end of the second paragraph of Article 503.19 of the Standard Specifications:

“After the surface is clean and before applying protective coat, joints being sealed according to Section 588 shall be covered with a masking tape.”

Revise Section 588 of the Standard Specifications to read:

**“SECTION 588. CONCRETE JOINT SEALER**

**588.01 Description.** This work shall consist of sealing the transverse joint in the bridge roadway slab.

**588.02 Materials.** Materials shall be according to the following.

| Item  | Article/Section |
|---|-----------------|
| (a) Hot-Poured Joint Sealer .....                       | 1050.02         |
| (b) Preformed Flexible Foam Expansion Joint Filler..... | 1051.09         |

**CONSTRUCTION REQUIREMENTS**

**588.03 General.** The faces of all joints to be sealed shall be free of foreign matter, curing compound, oils, grease, dirt, free water, and laitance. Concrete joints to be sealed shall be free of cracked or spalled areas. Any cracked areas shall be chipped back to sound concrete before placing joint sealer.

The hot-poured joint sealer shall be placed when the air temperature in the shade is 40 °F (5 °C) or higher, unless approved by the Engineer.

A continuous length of expansion joint filler of the size designated on the plans, shall be placed in the joint opening at the depth below the finished surface of the joint shown on the plans. Hot-poured joint sealer shall be stirred during heating to prevent localized overheating. The sealing material shall be applied to each joint opening according to the details shown on the plans or as directed by the Engineer, without spilling on the exposed concrete surfaces.

All bridge joints shall be filled to 1/4 in. (6 mm) below the finished surface of the joint. This is to be interpreted to mean that the surface of the sealant shall be level and the point of its contact with the sidewalls of the joint shall be 1/4 in. (6 mm) below the finished surface of the joint.

Any sealing compound that is not bonded to the joint wall or face 24 hours after placing shall be removed and the joint shall be cleaned and resealed.

**588.04 Basis of Payment.** This work will not be paid for as a separate item, but shall be considered as included in the unit price bid for the major item of construction involved.”

**CONCRETE MIX DESIGNS (BDE)**

Effective: April 1, 2009

Add the following to Article 1020.05(c) of the Standard Specifications:

“(5) Performance Based Finely Divided Mineral Combination. For Class PV and SI concrete a performance based finely divided mineral combination may be used.

The minimum cement factor, maximum cement factor, and water cement ratio of Article 1020.04 shall be replaced with the values below, and the performance based finely divided mineral combination herein is an alternative to Articles 1020.05(c)(1), (c)(2), (c)(3), and (c)(4). The mix design shall meet the following requirements and the Engineer may request a trial batch.

- a. The mixture shall contain a minimum of 375 lbs/cu yd (222 kg/cu m) of portland cement. For a blended cement, a sufficient amount shall be used to obtain the required 375 lbs/cu yd (222 kg/cu m) of portland cement in the mixture. For example, a blended cement stated to have 20 percent finely divided mineral, ignoring any ASTM C 595 tolerance on the 20 percent, would require a minimum of 469 lbs/cu yd (278 kg/cu m) of material in the mixture. When the mixture is designed for cement content from 375 lbs/cu yd (222 kg/cu m) to 400 lbs/cu yd (237 kg/cu m), the total of organic processing additions, inorganic processing additions, and limestone addition in the cement shall not exceed 5.0 percent.
- b. The mixture shall contain a maximum of two finely divided minerals. The finely divided mineral in a blended cement shall count toward the total number of finely divided minerals allowed. The finely divided mineral(s) shall constitute a maximum of 35.0 percent of the total cement plus finely divided mineral(s). The fly ash portion shall not exceed 30.0 percent for Class C fly ash or 25.0 percent for Class F fly ash. The Class C and F fly ash combination shall not exceed 30.0 percent. The ground granulated blast-furnace slag portion shall not exceed 35.0 percent. The microsilica or high-reactivity metakaolin portion used together or separately shall not exceed 5.0 percent. The finely divided mineral in the blended cement shall apply to the maximum 35.0 percent, and shall be determined as discussed in a. above for determining portland cement in blended cement.
- c. For central mixed Class PV and SI concrete, the mixture shall contain a minimum of 535 lbs/cu yd (320 kg/cu m) of cement and finely divided mineral(s) summed together, and a water-reducing admixture shall be used. The value shall be 565 lbs/cu yd (335 kg/cu m) without a water-reducing admixture.

For truck mixed or shrink mixed Class PV and SI concrete, the mixture shall contain a minimum of 575 lbs/cu yd (345 kg/cu m) of cement and finely divided mineral(s) summed together, and a water-reducing admixture shall be used. The value shall be 605 lbs/cu yd (360 kg/cu m) without a water-reducing admixture.

- d. The mixture shall contain a maximum of 705 lbs/cu yd (418 kg/cu m) of cement and finely divided mineral(s) summed together.
- e. The mixture shall have a water/cement ratio of 0.32 – 0.44.
- f. The mixture shall not be used for placement underwater.
- g. The combination of cement and finely divided mineral(s) shall have an ASTM C 1567 expansion value  $\leq 0.16$  percent, and shall be performed on the aggregate in the concrete mixture with the highest ASTM C 1260 test result.

The ASTM C 1567 test will be valid for two years, unless the Engineer determines the materials have changed significantly.

If during the two year time period the Contractor needs to replace the portland cement, and the replacement portland cement has an equal or lower total equivalent alkali content ( $\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$ ), a new ASTM C 1567 test will not be required. However, replacement of a blended cement with another cement will require a new ASTM C 1567 test.”

### **CONSTRUCTION AIR QUALITY - DIESEL VEHICLE EMISSIONS CONTROL (BDE)**

Effective: April 1, 2009

Revised: July 1, 2009

Diesel Vehicle Emissions Control. The reduction of construction air emissions shall be accomplished by using cleaner burning diesel fuel. The term “equipment” refers to any and all diesel fuel powered devices rated at 50 hp and above, to be used on the project site in excess of seven calendar days over the course of the construction period on the project site (including any “rental” equipment).

All equipment on the jobsite, with engine ratings of 50 hp and above, shall be required to: use Ultra Low Sulfur Diesel fuel (ULSD) exclusively (15 ppm sulfur content or less).

Diesel powered equipment in non-compliance will not be allowed to be used on the project site, and is also subject to a notice of non-compliance as outlined below.

The Contractor shall submit copies of monthly summary reports and include certified copies of the ULSD diesel fuel delivery slips for diesel fuel delivered to the jobsite for the reporting time period, noting the quantity of diesel fuel used.

If any diesel powered equipment is found to be in non-compliance with any portion of this specification, the Engineer will issue the Contractor a notice of non-compliance and identify an appropriate period of time, as outlined below under environmental deficiency deduction, in which to bring the equipment into compliance or remove it from the project site.

Any costs associated with bringing any diesel powered equipment into compliance with these diesel vehicle emissions controls shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall also not be grounds for a claim.

Environmental Deficiency Deduction. When the Engineer is notified, or determines that an environmental control deficiency exists, he/she will notify the Contractor in writing, and direct the Contractor to correct the deficiency within a specified time period. The specified time-period, which begins upon Contractor notification, will be from 1/2 hour to 24 hours long, based on the urgency of the situation and the nature of the deficiency. The Engineer shall be the sole judge regarding the time period.

The deficiency will be based on lack of repair, maintenance and diesel vehicle emissions control.

If the Contractor fails to correct the deficiency within the specified time frame, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

If a Contractor or subcontractor accumulates three environmental deficiency deductions in a contract period, the Contractor will be shutdown until the deficiency is corrected. Such a shutdown will not be grounds for any extension of contract time, waiver of penalties, or be grounds for any claim.

### **CONSTRUCTION AIR QUALITY - IDLING RESTRICTIONS (BDE)**

Effective: April 1, 2009

Idling Restrictions. The Contractor shall establish truck-staging areas for all diesel powered vehicles that are waiting to load or unload material at the jobsite. Staging areas shall be located where the diesel emissions from the equipment will have a minimum impact on adjacent sensitive receptors. The Department will review the selection of staging areas, whether within or outside the existing highway right-of-way, to avoid locations near sensitive areas or populations to the extent possible. Sensitive receptors include, but are not limited to, hospitals, schools, residences, motels, hotels, daycare facilities, elderly housing and convalescent facilities. Diesel powered engines shall also be located as far away as possible from fresh air intakes, air conditioners, and windows. The Engineer will approve staging areas before implementation.

Diesel powered vehicle operators may not cause or allow the motor vehicle, when it is not in motion, to idle for more than a total of 10 minutes within any 60 minute period, except under any of the following circumstances:

- 1) The motor vehicle has a gross vehicle weight rating of less than 8000 lb (3630 kg).
- 2) The motor vehicle idles while forced to remain motionless because of on-highway traffic, an official traffic control device or signal, or at the direction of a law enforcement official.
- 3) The motor vehicle idles when operating defrosters, heaters, air conditioners, or other equipment solely to prevent a safety or health emergency.
- 4) A police, fire, ambulance, public safety, other emergency or law enforcement motor vehicle, or any motor vehicle used in an emergency capacity, idles while in an emergency or training mode and not for the convenience of the vehicle operator.
- 5) The primary propulsion engine idles for maintenance, servicing, repairing, or diagnostic purposes if idling is necessary for such activity.
- 6) A motor vehicle idles as part of a government inspection to verify that all equipment is in good working order, provided idling is required as part of the inspection.
- 7) When idling of the motor vehicle is required to operate auxiliary equipment to accomplish the intended use of the vehicle (such as loading, unloading, mixing, or processing cargo; controlling cargo temperature; construction operations, lumbering operations; oil or gas well servicing; or farming operations), provided that this exemption does not apply when the vehicle is idling solely for cabin comfort or to operate non-essential equipment such as air conditioning, heating, microwave ovens, or televisions.
- 8) When the motor vehicle idles due to mechanical difficulties over which the operator has no control.
- 9) The outdoor temperature is less than 32 °F (0 °C) or greater than 80 °F (26 °C).

When the outdoor temperature is greater than or equal to 32 °F (0 °C) or less than or equal to 80 °F (26 °C), a person who operates a motor vehicle operating on diesel fuel shall not cause or allow the motor vehicle to idle for a period greater than 30 minutes in any 60 minute period while waiting to weigh, load, or unload cargo or freight, unless the vehicle is in a line of vehicles that regularly and periodically moves forward.

The above requirements do not prohibit the operation of an auxiliary power unit or generator set as an alternative to idling the main engine of a motor vehicle operating on diesel fuel.

Environmental Deficiency Deduction. When the Engineer is notified, or determines that an environmental control deficiency exists based on non-compliance with the idling restrictions, he/she will notify the Contractor, and direct the Contractor to correct the deficiency.

If the Contractor fails to correct the deficiency a monetary deduction will be imposed. The monetary deduction will be \$1,000.00 for each deficiency identified.

### **DETERMINATION OF THICKNESS (BDE)**

Effective: April 1, 2009

Revise Articles 353.12 and 353.13 of the Standard Specifications to Articles 353.13 and 353.14 respectively.

Add the following Article to the Standard Specifications:

**“353.12 Tolerance in Thickness.** The thickness of base course pay items that individually contain at least 1000 sq yd (840 sq m) of contiguous area, except for temporary construction, bike paths, and individual locations less than 500 ft (150 m) long, will be evaluated. Temporary construction is defined as those areas constructed and removed under the same contract. If the base course cannot be cored for thickness prior to placement of the cover layer(s), the Engineer will determine the thickness of the cover layer(s), and subtract them from the measured core thickness to determine the base course thickness.

The procedure described in Article 407.10(b) will be followed, except the option of correcting deficient pavement with additional lift(s) shall not apply.”

Revise Article 354.09 of the Standard Specifications to read:

**“354.09 Tolerance in Thickness.** The thickness of base course widening pay items that individually contain at least 1000 sq yd (840 sq m) of contiguous area, except for temporary construction; bike paths and individual locations less than 3 ft (1 m) wide or 1000 ft (300 m) long, will be evaluated. Temporary construction is defined as those areas constructed and removed under the same contract. If the base course widening cannot be cored for thickness prior to placement of the cover layer(s), the Engineer will determine the thickness of the cover layer(s), and subtract them from the measured core thickness to determine the base course widening thickness.

The procedure described in Article 407.10(b) will be followed, except:

- (a) The width of a unit shall be the width of the widening along one edge of the pavement.

(b) The length of the unit shall be 1000 ft (300 m).

(c) The option of correcting deficient pavement with additional lift(s) shall not apply.”

Revise Article 355.09 of the Standard Specifications to read:

“**355.09 Tolerance in Thickness.** The thickness of HMA base course pay items that individually contain at least 1000 sq yd (840 sq m) of contiguous area, except for temporary construction; bike paths and individual locations less than 500 ft (150 m) long, will be evaluated according to Article 407.10(b). Temporary construction is defined as those areas constructed and removed under the same contract. If the base course cannot be cored for thickness prior to placement of the cover layer(s), the Engineer will determine the thickness of the cover layer(s), and subtract them from the measured core thickness to determine the base course thickness.”

Revise Article 356.07 of the Standard Specifications to read:

“**356.07 Tolerance in Thickness.** The thickness of HMA base course widening pay items that individually contain at least 1000 sq yd (840 sq m) of contiguous area, except for temporary construction; bike paths and individual locations less than 3 ft (1 m) wide or 1000 ft (300 m) long, will be evaluated according to Article 407.10(b) except, the width of a unit shall be the width of the widening along one edge of the pavement and the length of a unit shall be 1000 ft (300 m). Temporary locations are defined as those constructed and removed under the same contract. If the base course widening cannot be cored for thickness prior to placement of the cover layer(s), the Engineer will determine the thickness of the cover layer(s) and subtract them from the measured core thickness to determine the base course widening thickness.”

Revise Article 407.10 of the Standard Specifications to read:

“**407.10 Tolerance in Thickness.** Determination of pavement thickness shall be performed after the pavement surface tests and corrective action have been completed according to Article 407.09. Pay adjustments made for pavement thickness will be in addition to and independent of those made for pavement smoothness. Pavement pay items that individually contain at least 1000 sq yd (840 sq m) of contiguous pavement shall be evaluated with the following exclusions: temporary pavements; variable width pavements; radius returns; short lengths of contiguous pavements less than 500 ft (125 m) in length; and constant width portions of turn lanes less than 500 ft (125 m) in length. Temporary pavements are defined as pavements constructed and removed under the same contract.

The method described in Article 407.10(a), shall be used except for those pavements constructed in areas where access to side streets and entrances necessitates construction in segments less than 1000 ft (300 m). The method described in Article 407.10(b) shall be used in areas where access to side streets and entrances necessitates construction in segments less than 1000 ft (300 m).

(a) Percent Within Limits. The percent within limits (PWL) method shall be as follows.

(1) Lots and Sublots. The pavement will be divided into approximately equal lots of not more than 5000 ft (1500 m) in length. When the length of a continuous strip of pavement is 500 ft (150 m) or greater but less than 5000 ft (1500 m), these short lengths of pavement, ramps, turn lanes, and other short sections of continuous pavement will be grouped together to form lots approximately 5000 ft (1500 m) in length.

Short segments between structures will be measured continuously with the structure segments omitted. Each lot will be subdivided into ten equal sublots. The width of a subplot and lot will be the width from the pavement edge to the adjacent lane line, from one lane line to the next, or between pavement edges for single-lane pavements.

- (2) Cores. Cores 2 in. (50 mm) in diameter shall be taken from the pavement by the Contractor, at locations selected by the Engineer. The exact location for each core will be selected at random, but will result in one core per subplot. Core locations will be specified prior to beginning the coring operations.

The Contractor and the Engineer shall witness the coring operations, as well as the measuring and recording of the core lengths. The cores will be measured with a device supplied by the Department immediately upon removal from the core bit and prior to moving to the next core location. Upon concurrence of the length, the core samples shall be disposed of according to Article 202.03.

Upon completion of each core, all water shall be removed from the hole and the hole then filled with a rapid hardening mortar or concrete. The material shall be mixed in a separate container, placed in the hole, consolidated by rodding, and struck-off flush with the adjacent pavement.

- (3) Deficient Sublot. When the length of the core in a subplot is deficient by more than ten percent of plan thickness, the Contractor may take three additional cores within that subplot at locations selected at random by the Engineer. If the Contractor chooses not to take additional cores, the pavement in that subplot shall be removed and replaced.

When the three additional cores are taken, the length of those cores will be averaged with the original core length. If the average shows the subplot to be deficient by ten percent or less, no additional action is necessary. If the average shows the subplot to be deficient by more than ten percent, the pavement in that subplot shall be removed and replaced; however, when requested in writing by the Contractor, the Engineer may permit in writing such deficient sublots to remain in place. For deficient sublots allowed to remain in place, additional lift(s) may be placed, at no additional cost to the Department, to bring the deficient pavement to plan thickness when the Engineer determines grade control conditions will permit such lift(s). The area(s) to be overlaid, material to be used, thickness(es) of the lift(s), and method of placement will be approved by the Engineer.

When a deficient subplot is removed and replaced, or additional lifts are placed, the corrected subplot shall be retested for thickness. The length of the new core taken in the subplot will be used in determining the PWL for the lot.

When a deficient subplot is left in place, and no additional lift(s) are placed, no payment will be made for the deficient subplot. The length of the original core taken in the subplot will be used in determining the PWL for the lot.

- (4) Deficient Lot. After addressing deficient sublots, the PWL for each lot will be determined.

When the PWL of a lot is 60 percent or less, the pavement in that lot shall be removed and replaced; however, when requested in writing by the Contractor, the Engineer may permit in writing such deficient lots to remain in place. For deficient lots allowed to remain in place, additional lift(s) may be placed, at no additional cost to the Department, to bring the deficient pavement to plan thickness when the Engineer determines grade control conditions will permit such lift(s). The area(s) to be overlaid, material to be used, thickness(es) of the lift(s), and method of placement will be approved by the Engineer.

When a deficient lot is removed and replaced, or additional lifts are placed, the corrected lot shall be retested for thickness. The PWL for the lot will then be recalculated based upon the new cores; however, the pay factor for the lot shall be a maximum of 100 percent.

When a deficient lot is left in place, and no additional lift(s) are placed, the PWL for the lot will not be recalculated.

- (5) Right of Discovery. When the Engineer has reason to believe the random core selection process will not accurately represent the true conditions of the work, he/she may order additional cores. The additional cores shall be taken at specific locations determined by the Engineer. The Engineer will provide notice to the Contractor containing an explanation of the reasons for his/her action. The need for, and location of, additional cores will be determined prior to commencement of coring operations.

When the additional cores show the pavement to be deficient by more than ten percent of plan thickness, more additional cores shall be taken to determine the limits of the deficient pavement and that area shall be removed and replaced; however, when requested in writing by the Contractor, the Engineer may permit in writing such areas of deficient pavement to remain in place. The area of deficient pavement will be defined using the length between two acceptable cores and the full width of the subplot. An acceptable core is a core with a length of at least 90 percent of plan thickness.

For deficient areas allowed to remain in place, additional lift(s) may be placed, at no additional cost to the Department, to bring the deficient pavement to plan thickness when the Engineer determines grade control conditions will permit such lift(s). The area(s) to be overlaid, material to be used, thickness(es) of the lift(s), and method of placement will be approved by the Engineer.

When an area of deficient pavement is removed and replaced, or additional lifts are placed, the corrected pavement shall be retested for thickness.

When an area of deficient pavement is left in place, and no additional lift(s) are placed, no payment will be made for the deficient pavement.

When the additional cores show the pavement to be at least 90 percent of plan thickness, the additional cores will be paid for according to Article 109.04.

- (6) Profile Index Adjustment. After any area of pavement is removed and replaced or any additional lifts are placed, the corrected areas shall be retested for pavement smoothness and any necessary profile index adjustments and/or corrections will be made based on these final profile readings prior to retesting for thickness.
- (7) Determination of PWL. The PWL for each lot will be determined as follows.

Definitions:

- $x_i$  = Individual values (core lengths) under consideration
- $n$  = Number of individual values under consideration (10 per lot)
- $\bar{x}$  = Average of the values under consideration
- LSL = Lower Specification Limit (98% of plan thickness)
- $Q_L$  = Lower Quality Index
- $S$  = Sample Standard Deviation
- PWL = Percent Within Limits

Determine  $\bar{x}$  for the lot to the nearest two decimal places.

Determine  $S$  for the lot to the nearest three decimal places using:

$$S = \sqrt{\frac{\sum(x_i - \bar{x})^2}{n - 1}} \quad \text{where} \quad \sum(x_i - \bar{x})^2 = (x_1 - \bar{x})^2 + (x_2 - \bar{x})^2 + \dots + (x_{10} - \bar{x})^2$$

Determine  $Q_L$  for the lot to the nearest two decimal places using:

$$Q_L = \frac{(\bar{x} - LSL)}{S}$$

Determine PWL for the lot using the  $Q_L$  and the following table. For  $Q_L$  values less than zero the value shown in the table must be subtracted from 100 to obtain PWL.

- (8) Pay Factors. The pay factor (PF) for each lot will be determined, to the nearest two decimal places, using:

$$PF \text{ (in percent)} = 55 + 0.5 (PWL)$$

If  $\bar{x}$  for a lot is less than the plan thickness, the maximum PF for that lot shall be 100 percent.

- (9) Payment. Payment of incentive or disincentive for pay items subject to the PWL method will be calculated using:

$$\text{Payment} = (((TPF/100)-1) \times CUP) \times (TOTPAVT - DEFPAVT)$$

- TPF = Total Pay Factor
- CUP = Contract Unit Price
- TOTPAVT = Area of Pavement Subject to Coring
- DEFPAVT = Area of Deficient Pavement

The TPF for the pavement shall be the average of the PF for all the lots; however, the TPF shall not exceed 102 percent.

Area of Deficient pavement (DEFPVAVT) is defined as an area of pavement represented by a subplot deficient by more than ten percent which is left in place with no additional thickness added.

Area of Pavement Subject to Coring (TOTPAVT) is defined as those pavement areas included in lots for pavement thickness determination.

| PERCENT WITHIN LIMITS            |                             |                                  |                             |                                  |                             |                                  |                             |
|----------------------------------|-----------------------------|----------------------------------|-----------------------------|----------------------------------|-----------------------------|----------------------------------|-----------------------------|
| Quality Index (Q <sub>L</sub> )* | Percent Within Limits (PWL) | Quality Index (Q <sub>L</sub> )* | Percent Within Limits (PWL) | Quality Index (Q <sub>L</sub> )* | Percent Within Limits (PWL) | Quality Index (Q <sub>L</sub> )* | Percent Within Limits (PWL) |
| 0.00                             | 50.00                       | 0.40                             | 65.07                       | 0.80                             | 78.43                       | 1.20                             | 88.76                       |
| 0.01                             | 50.38                       | 0.41                             | 65.43                       | 0.81                             | 78.72                       | 1.21                             | 88.97                       |
| 0.02                             | 50.77                       | 0.42                             | 65.79                       | 0.82                             | 79.02                       | 1.22                             | 89.17                       |
| 0.03                             | 51.15                       | 0.43                             | 66.15                       | 0.83                             | 79.31                       | 1.23                             | 89.38                       |
| 0.04                             | 51.54                       | 0.44                             | 66.51                       | 0.84                             | 79.61                       | 1.24                             | 89.58                       |
| 0.05                             | 51.92                       | 0.45                             | 66.87                       | 0.85                             | 79.90                       | 1.25                             | 89.79                       |
| 0.06                             | 52.30                       | 0.46                             | 67.22                       | 0.86                             | 80.19                       | 1.26                             | 89.99                       |
| 0.07                             | 52.69                       | 0.47                             | 67.57                       | 0.87                             | 80.47                       | 1.27                             | 90.19                       |
| 0.08                             | 53.07                       | 0.48                             | 67.93                       | 0.88                             | 80.76                       | 1.28                             | 90.38                       |
| 0.09                             | 53.46                       | 0.49                             | 68.28                       | 0.89                             | 81.04                       | 1.29                             | 90.58                       |
| 0.10                             | 53.84                       | 0.50                             | 68.63                       | 0.90                             | 81.33                       | 1.30                             | 90.78                       |
| 0.11                             | 54.22                       | 0.51                             | 68.98                       | 0.91                             | 81.61                       | 1.31                             | 90.96                       |
| 0.12                             | 54.60                       | 0.52                             | 69.32                       | 0.92                             | 81.88                       | 1.32                             | 91.15                       |
| 0.13                             | 54.99                       | 0.53                             | 69.67                       | 0.93                             | 82.16                       | 1.33                             | 91.33                       |
| 0.14                             | 55.37                       | 0.54                             | 70.01                       | 0.94                             | 82.43                       | 1.34                             | 91.52                       |
| 0.15                             | 55.75                       | 0.55                             | 70.36                       | 0.95                             | 82.71                       | 1.35                             | 91.70                       |
| 0.16                             | 56.13                       | 0.56                             | 70.70                       | 0.96                             | 82.97                       | 1.36                             | 91.87                       |
| 0.17                             | 56.51                       | 0.57                             | 71.04                       | 0.97                             | 83.24                       | 1.37                             | 92.04                       |
| 0.18                             | 56.89                       | 0.58                             | 71.38                       | 0.98                             | 83.50                       | 1.38                             | 92.22                       |
| 0.19                             | 57.27                       | 0.59                             | 71.72                       | 0.99                             | 83.77                       | 1.39                             | 92.39                       |
| 0.20                             | 57.65                       | 0.60                             | 72.06                       | 1.00                             | 84.03                       | 1.40                             | 92.56                       |
| 0.21                             | 58.03                       | 0.61                             | 72.39                       | 1.01                             | 84.28                       | 1.41                             | 92.72                       |
| 0.22                             | 58.40                       | 0.62                             | 72.72                       | 1.02                             | 84.53                       | 1.42                             | 92.88                       |
| 0.23                             | 58.78                       | 0.63                             | 73.06                       | 1.03                             | 84.79                       | 1.43                             | 93.05                       |
| 0.24                             | 59.15                       | 0.64                             | 73.39                       | 1.04                             | 85.04                       | 1.44                             | 93.21                       |
| 0.25                             | 59.53                       | 0.65                             | 73.72                       | 1.05                             | 85.29                       | 1.45                             | 93.37                       |
| 0.26                             | 59.90                       | 0.66                             | 74.04                       | 1.06                             | 85.53                       | 1.46                             | 93.52                       |
| 0.27                             | 60.28                       | 0.67                             | 74.36                       | 1.07                             | 85.77                       | 1.47                             | 93.67                       |
| 0.28                             | 60.65                       | 0.68                             | 74.69                       | 1.08                             | 86.02                       | 1.48                             | 93.83                       |
| 0.29                             | 61.03                       | 0.69                             | 75.01                       | 1.09                             | 86.26                       | 1.49                             | 93.98                       |
| 0.30                             | 61.40                       | 0.70                             | 75.33                       | 1.10                             | 86.50                       | 1.50                             | 94.13                       |
| 0.31                             | 61.77                       | 0.71                             | 75.64                       | 1.11                             | 86.73                       | 1.51                             | 94.27                       |
| 0.32                             | 62.14                       | 0.72                             | 75.96                       | 1.12                             | 86.96                       | 1.52                             | 94.41                       |
| 0.33                             | 62.51                       | 0.73                             | 76.27                       | 1.13                             | 87.20                       | 1.53                             | 94.54                       |
| 0.34                             | 62.88                       | 0.74                             | 76.59                       | 1.14                             | 87.43                       | 1.54                             | 94.68                       |
| 0.35                             | 63.25                       | 0.75                             | 76.90                       | 1.15                             | 87.66                       | 1.55                             | 94.82                       |
| 0.36                             | 63.61                       | 0.76                             | 77.21                       | 1.16                             | 87.88                       | 1.56                             | 94.95                       |
| 0.37                             | 63.98                       | 0.77                             | 77.51                       | 1.17                             | 88.10                       | 1.57                             | 95.08                       |
| 0.38                             | 64.34                       | 0.78                             | 77.82                       | 1.18                             | 88.32                       | 1.58                             | 95.20                       |
| 0.39                             | 64.71                       | 0.79                             | 78.12                       | 1.19                             | 88.54                       | 1.59                             | 95.33                       |

\*For Q<sub>L</sub> values less than zero, subtract the table value from 100 to obtain PWL

| PERCENT WITHIN LIMITS (continued) |                             |                                  |                             |                                  |                             |
|-----------------------------------|-----------------------------|----------------------------------|-----------------------------|----------------------------------|-----------------------------|
| Quality Index (Q <sub>L</sub> )*  | Percent Within Limits (PWL) | Quality Index (Q <sub>L</sub> )* | Percent Within Limits (PWL) | Quality Index (Q <sub>L</sub> )* | Percent Within Limits (PWL) |
| 1.60                              | 95.46                       | 2.00                             | 98.83                       | 2.40                             | 99.89                       |
| 1.61                              | 95.58                       | 2.01                             | 98.88                       | 2.41                             | 99.90                       |
| 1.62                              | 95.70                       | 2.02                             | 98.92                       | 2.42                             | 99.91                       |
| 1.63                              | 95.81                       | 2.03                             | 98.97                       | 2.43                             | 99.91                       |
| 1.64                              | 95.93                       | 2.04                             | 99.01                       | 2.44                             | 99.92                       |
| 1.65                              | 96.05                       | 2.05                             | 99.06                       | 2.45                             | 99.93                       |
| 1.66                              | 96.16                       | 2.06                             | 99.10                       | 2.46                             | 99.94                       |
| 1.67                              | 96.27                       | 2.07                             | 99.14                       | 2.47                             | 99.94                       |
| 1.68                              | 96.37                       | 2.08                             | 99.18                       | 2.48                             | 99.95                       |
| 1.69                              | 96.48                       | 2.09                             | 99.22                       | 2.49                             | 99.95                       |
| 1.70                              | 96.59                       | 2.10                             | 99.26                       | 2.50                             | 99.96                       |
| 1.71                              | 96.69                       | 2.11                             | 99.29                       | 2.51                             | 99.96                       |
| 1.72                              | 96.78                       | 2.12                             | 99.32                       | 2.52                             | 99.97                       |
| 1.73                              | 96.88                       | 2.13                             | 99.36                       | 2.53                             | 99.97                       |
| 1.74                              | 96.97                       | 2.14                             | 99.39                       | 2.54                             | 99.98                       |
| 1.75                              | 97.07                       | 2.15                             | 99.42                       | 2.55                             | 99.98                       |
| 1.76                              | 97.16                       | 2.16                             | 99.45                       | 2.56                             | 99.98                       |
| 1.77                              | 97.25                       | 2.17                             | 99.48                       | 2.57                             | 99.98                       |
| 1.78                              | 97.33                       | 2.18                             | 99.50                       | 2.58                             | 99.99                       |
| 1.79                              | 97.42                       | 2.19                             | 99.53                       | 2.59                             | 99.99                       |
| 1.80                              | 97.51                       | 2.20                             | 99.56                       | 2.60                             | 99.99                       |
| 1.81                              | 97.59                       | 2.21                             | 99.58                       | 2.61                             | 99.99                       |
| 1.82                              | 97.67                       | 2.22                             | 99.61                       | 2.62                             | 99.99                       |
| 1.83                              | 97.75                       | 2.23                             | 99.63                       | 2.63                             | 100.00                      |
| 1.84                              | 97.83                       | 2.22                             | 99.66                       | 2.64                             | 100.00                      |
| 1.85                              | 97.91                       | 2.25                             | 99.68                       | ≥ 2.65                           | 100.00                      |
| 1.86                              | 97.98                       | 2.26                             | 99.70                       |                                  |                             |
| 1.87                              | 98.05                       | 2.27                             | 99.72                       |                                  |                             |
| 1.88                              | 98.11                       | 2.28                             | 99.73                       |                                  |                             |
| 1.89                              | 98.18                       | 2.29                             | 99.75                       |                                  |                             |
| 1.90                              | 98.25                       | 2.30                             | 99.77                       |                                  |                             |
| 1.91                              | 98.31                       | 2.31                             | 99.78                       |                                  |                             |
| 1.92                              | 98.37                       | 2.32                             | 99.80                       |                                  |                             |
| 1.93                              | 98.44                       | 2.33                             | 99.81                       |                                  |                             |
| 1.94                              | 98.50                       | 2.34                             | 99.83                       |                                  |                             |
| 1.95                              | 98.56                       | 2.35                             | 99.84                       |                                  |                             |
| 1.96                              | 98.61                       | 2.36                             | 99.85                       |                                  |                             |
| 1.97                              | 98.67                       | 2.37                             | 99.86                       |                                  |                             |
| 1.98                              | 98.72                       | 2.38                             | 99.87                       |                                  |                             |
| 1.99                              | 98.78                       | 2.39                             | 99.88                       |                                  |                             |

\*For Q<sub>L</sub> values less than zero, subtract the table value from 100 to obtain PWL

(b) Minimum Thickness. The minimum thickness method shall be as follows.

- (1) Length of Units. The length of a unit will be a continuous strip of pavement 500 ft (150 m) in length.
- (2) Width of Units. The width of a unit will be the width from the pavement edge to the adjacent lane line, from one lane line to the next, or between pavement edges for single-lane pavements.

- (3) Thickness Measurements. Pavement thickness will be based on 2 in. (50 mm) diameter cores.

Cores shall be taken from the pavement by the Contractor at locations selected by the Engineer. When determining the thickness of a unit, one core shall be taken in each unit.

The Contractor and the Engineer shall witness the coring operations, as well as the measuring and recording of the cores. Core measurements will be determined immediately upon removal from the core bit and prior to moving to the next core location. Upon concurrence of the length, the core samples may be disposed of according to Article 202.03.

Upon completion of each core, all water shall be removed from the hole and the hole then filled with a rapid hardening mortar or concrete. The material shall be mixed in a separate container, placed in the hole, consolidated by rodding, and struck-off flush with the adjacent pavement.

- (4) Unit Deficient in Thickness. In considering any portion of the pavement that is deficient, the entire limits of the unit will be used in computing the deficiency or determining the remedial action required.
- (5) Thickness Equals or Exceeds Specified Thickness. When the thickness of a unit equals or exceeds the specified plan thickness, payment will be made at the contract unit price per square yard (square meter) for the specified thickness.
- (6) Thickness Deficient by Ten Percent or Less. When the thickness of a unit is less than the specified plan thickness by ten percent or less, a deficiency deduction will be assessed against payment for the item involved. The deficiency will be a percentage of the contract unit price as given in the following table.

| Percent Deficiency<br>(of Plan Thickness) | Percent Deduction<br>(of Contract Unit Price) |
|---|---|
| 0.0 to 2.0                                | 0   |
| 2.1 to 3.0                                | 20  |
| 3.1 to 4.0                                | 28  |
| 4.1 to 5.0                                | 32  |
| 5.1 to 7.5                                | 43  |
| 7.6 to 10.0                               | 50  |

- (7) Thickness Deficient by More than Ten Percent. When a core shows the pavement to be deficient by more than ten percent of plan thickness, additional cores shall be taken on each side of the deficient core, at stations selected by the Contractor and offsets selected by the Engineer, to determine the limits of the deficient pavement. No core shall be located within 5 ft (1.5 m) of a previous core obtained for thickness determination. The first acceptable core obtained on each side of a deficient core will be used to determine the length of the deficient pavement. An acceptable core is a core with a thickness of at least 90 percent of plan thickness. The area of deficient pavement will be defined using the length between two acceptable cores and the full width of the unit.

The area of deficient pavement shall be removed and replaced; however, when requested in writing by the Contractor, the Engineer may permit in writing such areas of deficient pavement to remain in place. For deficient areas allowed to remain in place, additional lift(s) may be placed, at no additional cost to the Department, to bring the deficient pavement to plan thickness when the Engineer determines grade control conditions will permit such lift(s). The area(s) to be overlaid, material to be used, thickness(es) of the lift(s), and method of placement will be approved by the Engineer.

When an area of deficient pavement is removed and replaced, or additional lifts are placed, the corrected pavement shall be retested for thickness. The thickness of the new core will be used to determine the pay factor for the corrected area.

When an area of deficient pavement is left in place, and no additional lift(s) are placed, no payment will be made for the deficient pavement. In addition, an amount equal to two times the contract cost of the deficient pavement will be deducted from the compensation due the Contractor.

The thickness of the first acceptable core on each side of the core more than ten percent deficient will be used to determine any needed pay adjustments for the remaining areas on each side of the area deficient by more than ten percent. The pay adjustment will be determined according to Article 407.10(b)(6).

- (8) Right of Discovery. When the Engineer has reason to believe any core location does not accurately represent the true conditions of the work, he/she may order additional cores. These additional cores shall be taken at specific locations determined by the Engineer. The Engineer will provide notice to the Contractor containing an explanation of the reasons for his/her action.

When the additional cores show the pavement to be deficient by more than ten percent of plan thickness, the procedures outlined in Article 407.10(b)(7) shall be followed, except the Engineer will determine the additional core locations.

When the additional cores, ordered by the Engineer, show the pavement to be at least 90 percent of plan thickness, the additional cores will be paid for according to Article 109.04.

- (9) Profile Index Adjustment. After any area of pavement is removed and replaced or any additional lifts are added, the corrected areas shall be retested for pavement smoothness and any necessary profile index adjustments and/or corrections will be made based on these final profile readings prior to retesting for thickness.”

Revise Article 482.06 of the Standard Specifications to read:

**“482.06 Tolerance in Thickness.** The shoulder shall be constructed to the thickness shown on the plans. When the contract includes square yards (square meters) as the unit of measurement for HMA shoulder, thickness determinations shall be made according to Article 407.10(b)(3) and the following.

- (a) Length of the Units. The length of a unit shall be a continuous strip of shoulder 2500 ft (750 m) long.

- (b) Width of the Units. The width of the unit shall be the full width of the shoulder.
- (c) Thickness Deficient by More than Ten Percent. When a core shows the shoulder to be deficient by more than ten percent of plan thickness, additional cores shall be taken on each side of the deficient core, at stations selected by the Contractor and offsets selected by the Engineer, to determine the limits of the deficient shoulder. No core shall be located within 5 ft (1.5 m) of a previous core obtained for thickness determination. The first acceptable core obtained on each side of a deficient core will be used to determine the length of the deficient shoulder. An acceptable core is a core with a thickness of at least 90 percent of plan thickness. The area of deficient shoulder will be defined using the length between two acceptable cores and the full width of the unit. The area of deficient shoulder shall be brought to specified thickness by the addition of the applicable mixture, at no additional cost to the Department and subject to the lift thickness requirements of Article 312.05, or by removal and replacement with a new mixture. However, the surface elevation of the completed shoulder shall not exceed by more than 1/8 in. (3 mm) the surface elevation of the adjacent pavement. When requested in writing by the Contractor, the Engineer may permit in writing such thin shoulder to remain in place. When an area of thin shoulder is left in place, and no additional lift(s) are placed, no payment will be made for the thin shoulder. In addition, an amount equal to two times the contract unit price of the shoulder will be deducted from the compensation due the Contractor.

When an area of deficient shoulder is removed and replaced, or additional lifts are placed, the corrected pavement shall be retested for thickness.

- (d) Right of Discovery. When the Engineer has reason to believe any core location does not accurately represent the true conditions of the work, he/she may order additional cores. When the additional cores, ordered by the Engineer, show the shoulder to be at least 90 percent of plan thickness, the additional cores will be paid for according to Article 109.04. When the additional core shows the shoulder to be less than 90 percent of plan thickness, the procedure in (c), above shall be followed.”

Revise Article 483.07 of the Standard Specifications to read:

**“483.07 Tolerance in Thickness.** The shoulder shall be constructed to the thickness shown on the plans. Thickness determinations shall be made according to Article 482.06 except the option of correcting deficient pavement with additional lift(s) shall not apply.”

## **DIGITAL TERRAIN MODELING FOR EARTHWORK CALCULATIONS (BDE)**

Effective: April 1, 2007

Revise the first and second paragraphs of Article 202.07(b) of the Standard Specifications to read:

- “(b) Measured Quantities. Earth and rock excavation will be measured in cubic yards (cubic meters) in their original positions. The volumes will be computed by the method of average end areas using before and after cross sections; or by the method of digital terrain modeling using before and after total station surveys. The volume of any unstable or unsuitable material removed will be measured for payment in cubic yards (cubic meters).

In rock excavation, the Contractor shall strip ledge rock of overburden so that necessary survey shots for measurement may be taken. Vertical measurements shall extend from the surface of the rock to an elevation not more than 6 in. (150 mm) below the subgrade of the proposed pavement structure, as shown on the plans, or to the bottom of the rock where that point is above the subgrade of the proposed pavement structure. Horizontal measurements shall extend not more than 6 in. (150 mm) beyond the slope lines fixed by the Engineer for the work. Boulders and rocks 1/2 cu yd (0.5 cu m) or more in volume will be measured individually and the volume computed from average dimensions taken in three directions.”

Revise the first paragraph of Article 204.07 of the Standard Specifications to read.

**“204.07 Method of Measurement.** Borrow excavation will be measured in cubic yards (cubic meters) in its original position. The volume will be computed by the method of average end areas using before and after cross sections; or by the method of digital terrain modeling using before and after total station surveys.”

Revise the embankment definition of Article 204.07(b) of the Standard Specifications to read:

“Embankment = the volume of fill in its final position computed by the method of average end areas or digital terrain modeling. Both methods will be based upon the existing ground line as shown on the plans, except as noted in (1) and (2) below;”

Revise Article 207.04 of the Standard Specifications to read:

**“207.04 Method of Measurement.** This work will be measured for payment in tons (metric tons) according to Article 311.08(b), or in cubic yards (cubic meters) compacted in place and the volume computed by the method of average end areas or digital terrain modeling by total station measurement.”

Revise the second sentence of the second paragraph of Article 211.07(b) of the Standard Specifications to read:

“The volume will be computed by the method of average end areas or digital terrain modeling by total station measurement.”

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

Effective: September 1, 2000

Revised: January 1, 2011

**FEDERAL OBLIGATION.** 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.

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

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

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 that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform **8.00%** of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:

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

DBE LOCATOR REFERENCES. Bidders may 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 web site at [www.dot.il.gov](http://www.dot.il.gov).

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

- (a) The bidder shall submit a Disadvantaged Business Utilization Plan on Department forms SBE 2025 and 2026 with the bid.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number, and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. For bidding purposes, submission of the completed SBE 2025 forms, signed by the DBEs and faxed to the bidder will be acceptable as long as the original is available and provided upon request. All elements of information indicated on the said form shall be provided, including but not limited to the following:
  - (1) The names and addresses of DBE firms that will participate in the contract;
  - (2) A description, including pay item numbers, of the work each DBE will perform;
  - (3) The dollar amount of the participation of each DBE firm participating. The dollar amount of participation for identified work shall specifically state the quantity, unit price, and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
  - (4) DBE Participation Commitment Statements, form SBE 2025, signed by the bidder and each participating DBE firm documenting the commitment to use the DBE subcontractors whose participation is submitted to meet the contract goal;
  - (5) If the bidder is a joint venture comprised of DBE companies and non-DBE companies, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s); and,
  - (6) If the contract goal is not met, evidence of good faith efforts.

GOOD FAITH EFFORT PROCEDURES. The contract will not be awarded until the Utilization Plan submitted by the apparent successful bidder is approved. All information submitted by the bidder must be complete, accurate and adequately document that enough DBE participation has been obtained or document 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 performance to meet the contract goal or the bidder submits sufficient documentation of a good faith effort to meet the contract goal pursuant to 49 CFR part 26, Appendix A. The Utilization Plan will not be approved by the Department if the Utilization Plan does not document sufficient DBE participation to meet the contract goal unless the apparent successful bidder documented in the Utilization Plan that it made a good faith effort to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which, by their scope, intensity and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not successful.

The Department will consider the quality, quantity, and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts, in other words, efforts done as a matter of form, are not good faith efforts; rather, the bidder is expected to have taken genuine efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

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

- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
  - (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
  - (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
  - (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the apparent successful bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that the bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification shall include a statement of reasons for the determination.
- (c) The bidder may request administrative reconsideration of a determination adverse to the bidder within the five working days after receipt of the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

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 prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.
- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the following:
  - (1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.
  - (2) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission it 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 or 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 regular dealer or 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.

- (a) No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764. Telephone number (217) 785-4611. Telefax number (217) 785-1524.
- (b) The Contractor must notify and obtain written approval from the Department's Bureau of Small Business Enterprises prior to replacing a DBE or making any change in the participation of a DBE. Approval for replacement will be granted only if it is demonstrated that the DBE is unable or unwilling to perform. The Contractor must make every good faith effort to find another certified DBE subcontractor to substitute for the original DBE. The good faith efforts shall be directed at finding another DBE to perform at least the same amount of work under the contract as the original DBE, to the extent needed to meet the contract goal.
- (c) Any deviation from the DBE condition-of-award or contract specifications must be approved, in writing, by the Department. 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.
- (d) In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractor-initiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
  - (1) That the replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award;  
or
  - (2) That the DBE is aware that its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
  - (3) That the DBE is not capable of performing the replacement work or has declined to perform the work at a reasonably 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) 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, must be signed and submitted.

- (f) If the commitment of work is in the form of additional tasks assigned to an existing subcontract, than a new Request for Approval of Subcontractor shall not be required. However, the Contractor must document efforts to assure that the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.
- (g) All work indicated for performance by an approved DBE shall be performed, managed, and supervised by the DBE executing the Participation Statement. The Contractor shall not terminate for convenience a DBE listed in the Utilization Plan and then perform the work of the terminated DBE with its own forces, those of an affiliate or those of another subcontractor, whether DBE or not, without first obtaining the written consent of the Bureau of Small Business Enterprises to amend the Utilization Plan. The Contractor shall notify the Bureau of Small Business Enterprises of any termination for reasons other than convenience, and shall obtain approval for inclusion of the substitute DBE in the Utilization Plan. If good faith efforts following a termination of a DBE for cause are not successful, the Contractor shall contact the Bureau of Small Business Enterprises and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Bureau of Small Business Enterprises will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.
- (h) The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Regional Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (j) of this part.
- (i) 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.
- (j) 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.

**DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (BDE)**

Effective: April 1, 2011

Add the following to Article 603.02 of the Standard Specifications:

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

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

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

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

Revise Article 603.07 of the Standard Specifications to read:

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

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

- (a) Temporary Asphalt Ramps. Temporary hot-mix asphalt ramps shall be placed around the casting, flush with its surface and decreasing to a featheredge in a distance of 2 ft (600 mm) around the entire surface of the casting.
- (b) Temporary Rubber Ramps. Temporary rubber ramps shall only be used on roadways with permanent posted speeds of 40 mph or less and when the height of the casting to be protected meets the proper sizing requirements for the rubber ramps as shown below.

| Dimension   | Requirement                                   |
|---|---|
| Inside Opening                                      | Outside dimensions of casting + 1 in. (25 mm) |
| Thickness at inside edge                            | Height of casting ± 1/4 in. (6 mm)            |
| Thickness at outside edge                           | 1/4 in. (6 mm) max.                           |
| Width, measured from inside opening to outside edge | 8 1/2 in. (215 mm) min                        |

Placement shall be according to the manufacturer's specifications.

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

### **EQUIPMENT RENTAL RATES (BDE)**

Effective: August 2, 2007

Revised: January 2, 2008

Replace the second and third paragraphs of Article 105.07(b)(4)a. of the Standard Specifications with the following:

"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)."

Replace Article 109.04(b)(4) of the Standard Specifications with the following:

"(4) Equipment. Equipment used for extra work shall be authorized by the Engineer. The equipment shall be specifically described, be of suitable size and capacity for the work to be performed, and be in good operating condition. For such equipment, the Contractor will be paid as follows.

- a. Contractor Owned Equipment. Contractor owned equipment will be paid for by the hour using the applicable FHWA hourly rate from the "Equipment Watch Rental Rate Blue Book" (Blue Book) in effect when the force account work begins. The FHWA hourly rate is calculated as follows.

$$\text{FHWA hourly rate} = (\text{monthly rate}/176) \times (\text{model year adj.}) \times (\text{Illinois adj.}) + \text{EOC}$$

Where: EOC = Estimated Operating Costs per hour (from the Blue Book)

The time allowed will be the actual time the equipment is operating on the extra work. For the time required to move the equipment to and from the site of the extra work and any authorized idle (standby) time, payment will be made at the following hourly rate:  $0.5 \times (\text{FHWA hourly rate} - \text{EOC})$ .

All time allowed shall fall within the working hours authorized for the extra work.

The rates above include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs, overhaul and maintenance of any kind, depreciation, storage, overhead, profits, insurance, and all incidentals. The rates do not include labor.

The Contractor shall submit to the Engineer sufficient information for each piece of equipment and its attachments to enable the Engineer to determine the proper equipment category. If a rate is not established in the Blue Book for a particular piece of equipment, the Engineer will establish a rate for that piece of equipment that is consistent with its cost and use in the industry.

- b. Rented Equipment. Whenever it is necessary for the Contractor to rent equipment to perform extra work, the rental and transportation costs of the equipment plus five percent for overhead will be paid. In no case shall the rental rates exceed those of established distributors or equipment rental agencies.

All prices shall be agreed to in writing before the equipment is used.”

**FRAMES AND GRATES (BDE)**

Effective: January 1, 2010

Revise Article 609.02 of the Standard Specifications to read:

“**609.02 Materials.** Materials shall be according to the following.

| Item  | Article/Section |
|---|-----------------|
| (a) Portland Cement Concrete .....                | 1020            |
| (b) Gray Iron Castings .....                      | 1006.14         |
| (c) Ductile Iron Castings .....                   | 1006.15         |
| (d) Reinforcement Bars .....                      | 1006.10         |
| (e) Bedding Layer (Note 1) .....                  | 1004.01         |
| (f) Precast Concrete Bridge Approach Drains ..... | 1042            |

Note 1. Gradation CA 6, CA 10, or CA 12 of D quality or better.”

Revise Article 609.04 of the Standard Specifications to read:

“**609.04 Frames and Grates.** Cast iron frames and grates shall be used. Grates shall seat firmly in the frame.”

**FRICTION AGGREGATE (BDE)**

Effective: January 1, 2011

Revise Article 1004.01(a)(4) of the Standard Specifications to read:

“(4)Crushed Stone. Crushed stone shall be the angular fragments resulting from crushing undisturbed, consolidated deposits of rock by mechanical means. Crushed stone shall be divided into the following, when specified.

- a. Carbonate Crushed Stone. Carbonate crushed stone shall be either dolomite or limestone. Dolomite shall contain 11.0 percent or more magnesium oxide (MgO). Limestone shall contain less than 11.0 percent magnesium oxide (MgO).
- b. Crystalline Crushed Stone. Crystalline crushed stone shall be either metamorphic or igneous stone, including but is not limited to, quartzite, granite, rhyolite and diabase.”

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

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

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

| Use                          | Mixture   | Aggregates Allowed   |
|------------------------------|---|--|
| Class A                      | Seal or Cover   | <u>Allowed Alone or in Combination:</u><br>Gravel<br>Crushed Gravel<br>Carbonate Crushed Stone<br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF)<br>Crushed Steel Slag<br>Crushed Concrete  |
| HMA<br>All Other             | Stabilized Subbase<br>or Shoulders  | <u>Allowed Alone or in Combination:</u><br>Gravel<br>Crushed Gravel<br>Carbonate Crushed Stone<br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF)<br>Crushed Steel Slag <sup>1/</sup><br>Crushed Concrete  |
| HMA<br>High ESAL<br>Low ESAL | Binder<br>IL-25.0, IL-19.0,<br>or IL-19.0L<br><br>SMA Binder  | <u>Allowed Alone or in Combination:</u><br>Crushed Gravel<br>Carbonate Crushed Stone <sup>2/</sup><br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF)<br>Crushed Concrete <sup>3/</sup>  |
| HMA<br>High ESAL<br>Low ESAL | C Surface and<br>Leveling Binder<br>IL-12.5, IL-9.5,<br>or IL-9.5L<br><br>SMA<br>Ndesign 50 Surface | <u>Allowed Alone or in Combination:</u><br>Crushed Gravel<br>Carbonate Crushed Stone <sup>2/</sup><br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF)<br>Crushed Steel Slag <sup>4/</sup><br>Crushed Concrete <sup>3/</sup>  |
| HMA<br>High ESAL             | D Surface and<br>Leveling Binder<br>IL-12.5 or<br>IL-9.5<br><br>SMA<br>Ndesign 50<br>Surface        | <u>Allowed Alone or in Combination:</u><br>Crushed Gravel<br>Carbonate Crushed Stone (other than<br>Limestone) <sup>2/</sup><br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF) <sup>5/</sup><br>Crushed Steel Slag <sup>4/ 5/</sup><br>Crushed Concrete <sup>3/</sup> |
|                              |   | <u>Other Combinations Allowed:</u>   |
|                              |   | <i>Up to...</i>   <i>With...</i>   |
|                              |   | 25% Limestone   Dolomite   |

|  |  |  |   |
|--|--|--|---|
|  |  | 50% Limestone  | Any Mixture D aggregate other than Dolomite   |
|  |  | 75% Limestone  | Crushed Slag (ACBF) <sup>5/</sup> or Crushed Sandstone  |
| HMA<br>High ESAL                                     | E Surface<br>IL-12.5 or<br>IL-9.5<br><br>SMA<br>Ndesign 80<br>Surface  | <u>Allowed Alone or in Combination:</u><br>Crushed Gravel<br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF) <sup>5/</sup><br>Crushed Steel Slag <sup>5/</sup><br>Crushed Concrete <sup>3/</sup> |   |
|  |  | No Limestone.  |   |
|  |  | <u>Other Combinations Allowed:</u>   |   |
|  |  | <i>Up to...</i>  | <i>With...</i>  |
|  |  | 50% Dolomite <sup>2/</sup>   | Any Mixture E aggregate   |
|  |  | 75% Dolomite <sup>2/</sup>   | Crushed Sandstone,<br>Crushed Slag (ACBF) <sup>5/</sup> ,<br>Crushed Steel Slag <sup>5/</sup> , or<br>Crystalline Crushed Stone |
| 75% Crushed Gravel or Crushed Concrete <sup>3/</sup> | Crushed Sandstone,<br>Crystalline Crushed Stone,<br>Crushed Slag (ACBF) <sup>5/</sup> , or<br>Crushed Steel Slag <sup>5/</sup> |  |   |
| HMA<br>High ESAL                                     | F Surface<br>IL-12.5 or<br>IL-9.5<br><br>SMA<br>Ndesign 80<br>Surface  | <u>Allowed Alone or in Combination:</u><br>Crystalline Crushed Stone<br>Crushed Sandstone<br>Crushed Slag (ACBF) <sup>5/</sup><br>Crushed Steel Slag <sup>5/</sup><br>No Limestone.                                    |   |
|  |  | <u>Other Combinations Allowed:</u>   |   |
|  |  | <i>Up to...</i>  | <i>With...</i>  |
|  |  | 50% Crushed Gravel, Crushed Concrete <sup>3/</sup> , or Dolomite <sup>2/</sup>   | Crushed Sandstone,<br>Crushed Slag (ACBF) <sup>5/</sup> ,<br>Crushed Steel Slag <sup>5/</sup> , or<br>Crystalline Crushed Stone |

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
- 3/ Crushed concrete will not be permitted in SMA mixes.
- 4/ Crushed steel slag shall not be used as leveling binder.
- 5/ When either slag is used, the blend percentages listed shall be by volume."

### **HOT-MIX ASPHALT – ANTI-STRIPPING ADDITIVE (BDE)**

Effective: November 1, 2009

Revise the first and second paragraphs of Article 1030.04(c) of the Standard Specifications to read:

“(c) Determination of Need for Anti-Stripping Additive. The mixture designer shall determine if an additive is needed in the mix to prevent stripping. The determination will be made on the basis of tests performed according to Illinois Modified AASHTO T 283. To be considered acceptable by the Department as a mixture not susceptible to stripping, the conditioned to unconditioned split tensile strength ratio (TSR) shall be equal to or greater than 0.85 for 6 in. (150 mm) specimens. Mixtures, either with or without an additive, with TSRs less than 0.85 for 6 in. (150 mm) specimens will be considered unacceptable. Also, the conditioned tensile strength for mixtures containing an anti-strip additive shall not be lower than the original conditioned tensile strength determined for the same mixture without the anti-strip additive.

If it is determined that an additive is required, the additive may be hydrated lime, slaked quicklime, or a liquid additive, at the Contractor's option.”

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

Effective: January 1, 2010

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

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

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

“Longitudinal joint density testing shall be performed at each random density test location. Longitudinal joint testing shall be located at a distance equal to the lift thickness or a minimum of 2 in. (50 mm), from each pavement edge. (i.e. for a 4 in. (100 mm) lift the near edge of the density gauge or core barrel shall be within 4 in. (100 mm) from the edge of pavement.) Longitudinal joint density testing shall be performed using either a correlated nuclear gauge or cores.

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

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

| "Mixture Composition          | Parameter         | Individual Test<br>(includes confined edges) | Unconfined Edge<br>Joint Density<br>Minimum |
|-------------------------------|-------------------|--|---|
| IL-9.5, IL-12.5               | Ndesign ≥ 90      | 92.0 – 96.0%                                 | 90.0%                                       |
| IL-9.5,IL-9.5L,<br>IL-12.5    | Ndesign < 90      | 92.5 – 97.4%                                 | 90.0%                                       |
| IL-19.0, IL-25.0              | Ndesign ≥ 90      | 93.0 – 96.0%                                 | 90.0%                                       |
| IL-19.0, IL-19.0L,<br>IL-25.0 | Ndesign < 90      | 93.0 – 97.4%                                 | 90.0%                                       |
| SMA                           | Ndesign = 50 & 80 | 93.5 – 97.4%                                 | 91.0%                                       |
| All Other                     | Ndesign = 30      | 93.0 - 97.4%                                 | 90.0%"                                      |

**HOT-MIX ASPHALT – DROP-OFFS (BDE)**

Effective: January 1, 2010

Revise the third paragraph of Article 701.07 of the Standard Specifications to read:

“At locations where construction operations result in a differential in elevation exceeding 3 in. (75 mm) between the edge of pavement or edge of shoulder within 3 ft (900 mm) of the edge of the pavement and the earth or aggregate shoulders, Type I or II barricades or vertical panels shall be placed at 100 ft (30 m) centers on roadways where the posted speed limit is 45 mph or greater and at 50 ft (15 m) centers on roadways where the posted speed limit is less than 45 mph.”

**HOT-MIX ASPHALT - FINE AGGREGATE (BDE)**

Effective: April 1, 2010

Add the following to the gradation tables of Article 1003.01(c) of the Standard Specifications:

| "FINE AGGREGATE GRADATIONS |                                |       |       |        |         |
|----------------------------|--------------------------------|-------|-------|--------|---------|
| Grad No.                   | Sieve Size and Percent Passing |       |       |        |         |
|                            | 3/8                            | No. 4 | No. 8 | No. 16 | No. 200 |
| FA 22                      | 100                            | 6/    | 6/    | 8±8    | 2±2     |

| FINE AGGREGATE GRADATIONS (Metric) |                                |         |         |         |       |
|------------------------------------|--------------------------------|---------|---------|---------|-------|
| Grad No.                           | Sieve Size and Percent Passing |         |         |         |       |
|                                    | 9.5 mm                         | 4.75 mm | 2.36 mm | 1.18 mm | 75 µm |
| FA 22                              | 100                            | 6/      | 6/      | 8±8     | 2±2   |

6/ For the fine aggregate gradation FA 22, the aggregate producer shall set the midpoint percent passing, and the Department will apply a range of ± ten percent. The midpoint shall not be changed without Department approval.”

Revise Article 1003.03(a) of the Standard Specifications to read:

“(a) Description. Fine aggregate for HMA shall consist of sand, stone sand, chats, slag sand, or steel slag sand. For gradation FA 22, uncrushed material will not be permitted.”

Revise Article 1003.03(c) of the Standard Specifications to read:

“(c) Gradation. The fine aggregate gradation for all HMA shall be FA 1, FA 2, FA 20, FA 21, or FA 22.

Gradation FA 1, FA 2, or FA 3 shall be used when required for prime coat aggregate application for HMA.”

### **IMPACT ATTENUATORS, TEMPORARY (BDE)**

Effective: November 1, 2003

Revised: January 1, 2007

Description. This work shall consist of furnishing, installing, maintaining, and removing temporary impact attenuators of the category and test level specified.

Materials. Materials shall meet the requirements of the impact attenuator manufacturer and the following:

| Item   | Article/Section           |
|--|---------------------------|
| (a) Fine Aggregate (Note 1)                              | 003.01                    |
| (b) Steel Posts, Structural Shapes, and Plates           | 1006.04                   |
| (c) Rail Elements, End Section Plates, and Splice Plates | 1006.25                   |
| (d) Bolts, Nuts, Washers and Hardware                    | 1006.25                   |
| (e) Hollow Structural Tubing                             | 1006.27(b)                |
| (f) Wood Posts and Wood Blockouts                        | 1007.01, 1007.02, 1007.06 |
| (g) Preservative Treatment                               | 1007.12                   |
| (h) Packaged Rapid Hardening Mortar                      | 1018.01                   |

Note 1. Fine aggregate shall be FA 1 or FA 2, Class A quality. The sand shall be unbagged and shall have a maximum moisture content of five percent.

### CONSTRUCTION REQUIREMENTS

General. Impact Attenuators shall meet the testing criteria contained in National Cooperative Highway Research Program (NCHRP) Report 350 for the test level specified and shall be on the Department’s approved list.

Installation. Regrading of slopes or approaches for the installation shall be as shown on the plans.

Attenuator bases, when required by the manufacturer, shall be constructed on a prepared subgrade according to the manufacturer’s specifications. The surface of the base shall be slightly sloped or crowned to facilitate drainage.

Impact attenuators shall be installed according to the manufacturer’s specifications and include all necessary transitions between the impact attenuator and the item to which it is attached.

When water filled attenuators are used between November 1 and April 15, they shall contain anti-freeze according to the manufacturer's recommendations.

Markings. Sand module impact attenuators shall be striped with alternating reflectorized Type AA or Type AP fluorescent orange and reflectorized white horizontal, circumferential stripes. There shall be at least two of each stripe on each module.

Other types of impact attenuators shall have a terminal marker applied to their nose and reflectors along their sides.

Maintenance. All maintenance of the impact attenuators shall be the responsibility of the Contractor until removal is directed by the Engineer.

Relocate. When relocation of temporary impact attenuators is specified, they shall be removed, relocated and reinstalled at the new location. The reinstallation requirements shall be the same as those for a new installation.

Removal. When the Engineer determines the temporary impact attenuators are no longer required, the installation shall be dismantled with all hardware becoming the property of the Contractor.

Surplus material shall be disposed of according to Article 202.03. Anti-freeze, when present, shall be disposed of/recycled according to local ordinances.

When impact attenuators have been anchored to the pavement, the anchor holes shall be repaired with rapid set mortar. Only enough water to permit placement and consolidation by rodding shall be used and the material shall be struck-off flush.

Method of Measurement. This work will be measured for payment as each, where each is defined as one complete installation.

Basis of Payment. This work will be paid for at the contract unit price per each for IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW); IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE); IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, RESETTABLE); IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW); IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, WIDE); or IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) of the test level specified.

Relocation of the devices will be paid for at the contract unit price per each for IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE); IMPACT ATTENUATORS, RELOCATE (SEVERE USE); or IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE); of the test level specified.

Regrading of slopes or approaches will be paid for according to Section 202 and/or Section 204 of the Standard Specifications.

#### **LIQUIDATED DAMAGES (BDE)**

Effective: April 1, 2009

Revised: April 1, 2011

Revise the table in Article 108.09 of the Standard Specifications to read:

| "Schedule of Deductions for Each Day of Overrun in Contract Time |                  |               |          |
|--|------------------|---------------|----------|
| Original Contract Amount   |                  | Daily Charges |          |
| From More Than   | To and Including | Calendar Day  | Work Day |
| \$ 0   | \$ 100,000       | \$ 475        | \$ 675   |
| 100,000  | 500,000          | 750           | 1,050    |
| 500,000  | 1,000,000        | 1,025         | 1,425    |
| 1,000,000  | 3,000,000        | 1,275         | 1,725    |
| 3,000,000  | 6,000,000        | 1,425         | 2,000    |
| 6,000,000  | 12,000,000       | 2,300         | 3,450    |
| 12,000,000   | And over         | 5,800         | 8,125"   |

**METAL HARDWARE CAST INTO CONCRETE (BDE)**

Effective: April 1, 2008

Revised: April 1, 2009

Add the following to Article 503.02 of the Standard Specifications:

"(g) Metal Hardware Cast into Concrete ..... 1006.13"

Add the following to Article 504.02 of the Standard Specifications:

"(j) Metal Hardware Cast into Concrete ..... 1006.13"

Revise Article 1006.13 of the Standard Specifications to read:

**"1006.13 Metal Hardware Cast into Concrete.** Unless otherwise noted, all steel hardware cast into concrete, such as inserts, brackets, cable clamps, metal casings for formed holes, and other miscellaneous items, shall be galvanized according to AASHTO M 232 or AASHTO M 111. Aluminum inserts will not be allowed. Zinc alloy inserts shall be according to ASTM B 86, Alloys 3, 5, or 7.

The inserts shall be UNC threaded type anchorages having the following minimum certified proof load.

| Insert Diameter | Proof Load         |
|-----------------|--------------------|
| 5/8 in. (16 mm) | 6600 lb (29.4 kN)  |
| 3/4 in. (19 mm) | 6600 lb (29.4 kN)  |
| 1 in. (25 mm)   | 9240 lb (41.1 kN)" |

**MULCH AND EROSION CONTROL BLANKETS (BDE)**

Effective: November 1, 2010

Revised: April 1, 2011

Revise the first sentence of Article 251.03 of the Standard Specifications to read:

"Within 24 hours of seed placement, mulch by one of the following methods shall be placed on the areas specified."

Revise Article 251.03(b)(2) of the Standard Specifications to read:

"(2) Procedure 2. This procedure shall consist of stabilizing the straw with an approved mulch blower followed immediately by an overspray application of light-duty hydraulic mulch.

The hydraulic mulch shall be according to Article 251.03(c) except that it shall be applied as a slurry of 900 lb (1020 kg) of mulch and 1000 gal (9500 L) of water per acre (hectare) using a hydraulic mulch applicator. The light-duty hydraulic mulch shall be agitated a minimum of five minutes before application and shall be agitated during application. The light-duty hydraulic mulch shall be applied from opposing directions to ensure even coverage.”

Revise Article 251.03(c) of the Standard Specification to read:

“(c) Method 3. This method shall consist of the machine application of a light-duty hydraulic mulch. Seeding shall be conducted as a separate operation and shall not be added to the hydraulic mulch slurry. Hydraulic mulch shall not be applied when the ambient temperature is at or below freezing. To achieve full and even coverage, the hydraulic mulch shall be applied from two opposing directions. Mixing and application rates shall be according to the manufacturer’s recommendations and meet the minimum application rates set in Article 1081.06(a)(2).”

Revise Article 251.03(d) of the Standard Specifications to read:

“(d) Method 3A. This method shall consist of the machine application of a heavy-duty hydraulic mulch. Seeding shall be conducted as a separate operation and shall not be added to the hydraulic mulch slurry. The hydraulic mulch shall not be applied when the ambient temperature is at or below freezing. To achieve full and even coverage, the hydraulic mulch shall be applied from two opposing directions. Mixing and application rates shall be according to the manufacturer’s recommendations and meet the minimum application rates set in Article 1081.06(a)(2). The heavy-duty hydraulic mulch shall be applied using a mechanically agitated hydraulic mulching machine.”

Add the following to Article 251.03 of the Standard Specifications:

“(e) Method 4. This method shall consist of applying compost combined with a performance additive designed to bind/stabilize the compost. The compost/performance additive mixture shall be applied to the surface of the slope using a pneumatic blower at a depth of 2 in. (50 mm).”

Revise Article 251.04 of the Standard Specifications to read:

**“251.04 Erosion Control Blanket.** Erosion control blanket may be placed using either excelsior blanket or knitted straw blanket. Within 24 hours of seed placement, blanket shall be placed on the areas specified. Prior to placing the blanket, the areas to be covered shall be relatively free of rocks or clods over 1 1/2 in. (40 mm) in diameter, and sticks or other foreign material which will prevent the close contact of the blanket with the seed bed. If, as a result of rain, the prepared seed bed becomes crusted or eroded, or if eroded places, ruts, or depressions exist for any reason, the Contractor shall rework the soil until it is smooth and reseed such areas which are reworked.

After the area has been properly shaped, fertilized, and seeded, the blanket shall be laid out flat, evenly, and smoothly, without stretching the material. The excelsior and knitted straw blankets shall be placed so that the netting is on the top and the fibers are in contact with the soil. The heavy duty blankets shall be placed so that the heavy duty extruded plastic mesh is on the bottom.

For placement in ditches, the erosion control blanket shall be applied parallel to the centerline of the ditch so that there are no longitudinal seams within 2 ft (600 mm) of the bottom centerline of the ditch. The blanket shall be toed in on the upslope edge and shingled or overlapped with the flow.

On slopes, the blanket shall be applied either horizontally or vertically to the contour, toed in on the upslope edge, and shingled or overlapped with the flow.

When placed adjacent to the roadway, blankets shall be toed in along the edge of shoulder.

Anchoring the blankets shall be according to the manufacturer's specifications."

Revise Article 251.06(b) of the Supplemental Specifications to read:

"(b) Measured Quantities. Mulch Methods 1, 2, 3, 3A and 4 will be measured for payment in place in acres (hectares) of surface area mulched. Erosion control blanket, heavy duty erosion control blanket, and turf reinforcement mat will be measured for payment in place in square yards (square meters)."

Revise Article 251.07 of the Supplemental Specifications to read:

"**251.07 Basis of Payment.** This work will be paid for at the contract unit price per acre (hectare) for MULCH, METHOD 1; MULCH, METHOD 2; MULCH, METHOD 3; MULCH, METHOD 3A; MULCH, METHOD 4; and at the contract unit price per square yard (square meter) for EROSION CONTROL BLANKET, HEAVY DUTY EROSION CONTROL BLANKET, or TURF REINFORCEMENT MAT."

Revise Article 1081.06(a)(2) of the Standard Specifications to read:

"(2) Hydraulic Mulch. The mulch component shall be comprised of a minimum of 70 percent biodegradable material such as wood cellulose, paper fibers, straw or cotton and shall contain no growth or germination inhibiting factors. The remainder of the components shall consist of the manufacturer's choice of tackifiers and/or strengthening fibers needed to meet the performance specifications. Tackifiers shall be non-toxic and LC 50 test results shall be provided along with the manufacturer's certification. Hydraulic mulch shall disperse evenly and rapidly and remain in slurry when agitated with water. When uniformly applied, the slurry shall form an absorbent cover allowing percolation of water to the underlying surface. Hydraulic mulch shall be packaged in UV and moisture resistant factory labeled packages or bags with the net quantity of the packaged material plainly shown on each package. The biodegradable material shall be relatively free of glossy papers and shall not be water soluble. The hydraulic mulches shall be according to the following.

| Light-Duty Hydraulic Mulch                     |                           |
|--|---------------------------|
| Property <sup>1/</sup>                         | Value                     |
| Functional Longevity <sup>2/</sup>             | 3 months                  |
| Minimum Application Rates                      | 2000 lb/acre (2240 kg/ha) |
| Typical Maximum Slope Gradient (V:H)           | ≤ 1:3                     |
| Maximum Uninterrupted Slope Length             | 50 ft (15 m)              |
| Maximum C Factor                               | 0.15                      |
| Minimum Vegetation Establishment <sup>5/</sup> | 200 %                     |

| Heavy-Duty Hydraulic Mulch                     |                           |
|--|---------------------------|
| Property <sup>1/</sup>                         | Value                     |
| Functional Longevity <sup>2/</sup>             | 12 months                 |
| Minimum Application Rates                      | 3000 lb/acre (3360 kg/ha) |
| Typical Maximum Slope Gradient (V:H)           | ≤ 1:2                     |
| Maximum Uninterrupted Slope Length             | 100 ft (30 m)             |
| Maximum C Factor <sup>3/ 4/</sup>              | 0.02                      |
| Minimum Vegetation Establishment <sup>5/</sup> | 400 %                     |

- 1/ This table sets minimum requirements only. Refer to manufacturer recommendations for application rates, instructions, gradients, maximum continuous slope lengths and other site specific recommendations.
- 2/ Manufacturer's estimated time period, based upon field observations, that a material can be anticipated to provide erosion control as influenced by its composition and site-specific conditions.
- 3/ "C" Factor calculated as ratio of soil loss from HECF protected slope (tested at specified or greater gradient, h:v) to ratio of soil loss from unprotected (control) plot based on large-scale testing.
- 4/ Large-scale test methods shall be according to ASTM D 6459.
- 5/ Minimum vegetation establishment shall be calculated according to ASTM D 7322.

The manufacturer shall furnish a certification with each shipment of hydraulic mulch stating the number of packages or bags furnished and that the material complies with these requirements."

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM / EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION (BDE)**

Effective: April 1, 2007

Revised: November 1, 2009

Revise Article 105.03(a) of the Standard Specifications to read:

"(a) National Pollutant Discharge Elimination System (NPDES) / Erosion and Sediment Control Deficiency Deduction When the Engineer is notified or determines an erosion and/or sediment control deficiency(s) exists, or the Contractor's activities represents a violation of the Department's NPDES permits, the Engineer will notify and direct the Contractor to correct the deficiency within a specified time. The specified time, which begins upon notification to the Contractor, will be from 1/2 hour to 1 week based on the urgency of the situation and the nature of the work effort required. The Engineer will be the sole judge.

A deficiency may be any lack of repair, maintenance, or implementation of erosion and/or sediment control devices included in the contract, or any failure to comply with the conditions of the Department's NPDES permits. A deficiency may also be applied to situations where corrective action is not an option such as the failure to participate in a jobsite inspection of the project, failure to install required measures prior to initiating earth moving operations, disregard of concrete washout requirements, or other disregard of the NPDES permit.

If the Contractor fails to correct a deficiency within the specified time, a daily monetary deduction will be imposed for each calendar day or portion of a calendar day until the deficiency is corrected to the satisfaction of the Engineer. The calendar day(s) will begin with notification to the Contractor and end with the Engineer's acceptance of the correction. The base value of the daily monetary deduction is \$1000.00 and will be applied to each location for which a deficiency exists. The value of the deficiency deduction assessed for each infraction will be determined by multiplying the base value by a Gravity Adjustment Factor provided in Table A. Except for failure to participate in a required jobsite inspection of the project prior to initiating earthmoving operations which will be based on the total acreage of planned disturbance at the following multipliers: <5 Acres: 1; 5-10 Acres: 2; >10-25 Acres: 3; >25 Acres: 5. For those deficiencies where corrective action was not an option, the monetary deduction will be immediate and will be valued at one calendar day multiplied by a Gravity Adjustment Factor.

| Table A<br>Deficiency Deduction Gravity Adjustment Factors                                   |   |                 |                   |               |
|--|---|-----------------|-------------------|---------------|
| Types of Violations  | Soil Disturbed and Not Permanently Stabilized<br>At Time of Violation |                 |                   |               |
|  | < 5<br>Acres  | 5 - 10<br>Acres | >10 - 25<br>Acres | > 25<br>Acres |
| Failure to Install or Properly Maintain BMP  | 0.1 - 0.5   | 0.2 - 1.0       | 0.5 - 2.5         | 1.0 - 5       |
| Careless Destruction of BMP  | 0.2 - 1   | 0.5 - 2.5       | 1.0 - 5.          | 1.0 - 5       |
| Intrusion into Protected Resource  | 1.0 - 5   | 1.0 - 5         | 2.0 - 10          | 2.0 - 10      |
| Failure to properly manage Chemicals, Concrete Washouts or Residuals, Litter or other Wastes | 0.2 - 1   | 0.2 - 1         | 0.5 - 2.5         | 1.0 - 5       |
| Improper Vehicle and Equipment Maintenance, Fueling or Cleaning                              | 0.1 - 0.5   | 0.2 - 1         | 0.2 - 1           | 0.5 - 2.5     |
| Failure to Provide or Update Written or Graphic Plans Required by SWPPP                      | 0.2 - 1   | 0.5 - 2.5       | 1.0 - 5           | 1.0 - 5       |
| Failure to comply with Other Provisions of the NPDES Permit                                  | 0.1 - 0.5   | 0.2 - 1         | 0.2 - 1           | 0.5 - 2.5"    |

### **NIGHTTIME WORK ZONE LIGHTING (BDE)**

Effective: November 1, 2008

Description. This work shall consist of furnishing, installing, maintaining, moving, and removing lighting for nighttime work zones. Nighttime shall be defined as occurring shortly before sunset until after sunrise.

Materials. The lighting shall consist of mobile and/or stationary lighting systems as required herein for the specific type of construction. Mobile lighting systems shall consist of luminaires attached to construction equipment or moveable carts. Stationary lighting systems shall consist of roadway luminaires mounted on temporary poles or trailer mounted light towers at fixed locations. Some lighting systems, such as balloon lights, may be adapted to both mobile and stationary applications.

Equipment. The Contractor shall furnish an illuminance meter for use by the Engineer. The meter shall have a digital display calibrated to NIST standards, shall be cosine and color corrected, and shall have an accuracy of  $\pm$  five percent. The sensor shall have a level indicator to ensure measurements are taken in a horizontal plane.

## CONSTRUCTION REQUIREMENTS

General. At the preconstruction conference, the Contractor shall submit the type(s) of lighting system to be used and the locations of all devices.

Before nighttime construction may begin, the lighting system shall be demonstrated as being operational.

Nighttime Flagging. The requirements for nighttime flagging shall be according to Article 701.13 of the Standard Specifications and the glare control requirements contained herein.

Lighting System Design. The lighting system shall be designed to meet the following.

- (a) Lighting Levels. The lighting system shall provide a minimum of 5 foot candles (54 lux) throughout the work area. For mobile operations, the work area shall be defined as 25 ft (9 m) in front of and behind moving equipment. For stationary operations, the work area shall be defined as the entire area where work is being performed.

Lighting levels will be measured with an illuminance meter. Readings will be taken in a horizontal plane 3 ft (1 m) above the pavement or ground surface.

- (b) Glare Control. The lighting system shall be designed and operated so as to avoid glare that interferes with traffic, workers, or inspection personnel. Lighting systems with flood, spot, or stadium type luminaires shall be aimed downward at the work and rotated outward no greater than 30 degrees from nadir (straight down). Balloon lights shall be positioned at least 12 ft (3.6 m) above the roadway.

As a large component of glare, the headlights of construction vehicles and equipment shall not be operated within the work zone except as allowed for specific construction operations. Headlights shall never be used when facing oncoming traffic.

- (c) Light Trespass. The lighting system shall be designed to effectively light the work area without spilling over to adjoining property. When, in the opinion of the Engineer, the lighting is disturbing adjoining property, the Contractor shall modify the lighting arrangement or add hardware to shield the light trespass.

Construction Operations. The lighting design required above shall be provided at any location where construction equipment is operating or workers are present on foot. When multiple operations are being carried on simultaneously, lighting shall be provided at each separate work area.

The lighting requirements for specific construction operations shall be as follows.

- (a) Installation or Removal of Work Zone Traffic Control. The required lighting level shall be provided at each truck and piece of equipment used during the installation or removal of work zone traffic control. Headlights may be operated in the work zone.
- (b) Milling and Paving. The required lighting level shall be provided by mounting a minimum of one balloon light to each piece of mobile construction equipment used in the work zone.

This would include milling machines, mechanical sweepers, material transfer devices, spreading and finishing machines, and rollers; but not include trucks used to transport materials and personnel or other vehicles that are continuously moving in and out of the work zone. The headlights of construction equipment shall not be operated within the work zone.

- (c) Patching. The required lighting level shall be provided at each patching location where work is being performed.
- (d) Pavement Marking and Raised Reflective Pavement Marker Removal/Installation. The striping truck and the attenuator/arrow board trucks may be operated by headlights alone; however, additional lighting may be necessary for the operator of the striping truck to perform the work.

For raised reflective pavement marker removal and installation and other pavement marking operations where workers are on foot, the required lighting level shall be provided at each truck and piece of equipment.

- (e) Layout, Testing, and Inspection. The required lighting level shall be provided for each active area of construction layout, material testing, and inspection. The work area shall be defined as 15 ft (7.6 m) in front and back of the individual(s) performing the tasks.

Basis of Payment. This work will be paid for at the contract lump sum price for NIGHTTIME WORK ZONE LIGHTING.

#### **PAVEMENT MARKING REMOVAL (BDE)**

Effective: April 1, 2009

Add the following to the end of the first paragraph of Article 783.03(a) of the Standard Specifications:

“The use of grinders will not be allowed on new surface courses.”

#### **PAYMENTS TO SUBCONTRACTORS (BDE)**

Effective: June 1, 2000

Revised: January 1, 2006

Federal regulations found at 49 CFR §26.29 mandate the Department to establish a contract clause to require Contractors to pay subcontractors for satisfactory performance of their subcontracts and to set the time for such payments.

State law also addresses the timing of payments to be made to subcontractors and material suppliers. Section 7 of the Prompt Payment Act, 30 ILCS 540/7, requires that when a Contractor receives any payment from the Department, the Contractor shall make corresponding, proportional payments to each subcontractor and material supplier performing work or supplying material within 15 calendar days after receipt of the Department payment. Section 7 of the Act further provides that interest in the amount of two percent per month, in addition to the payment due, shall be paid to any subcontractor or material supplier by the Contractor if the payment required by the Act is withheld or delayed without reasonable cause.

The Act also provides that the time for payment required and the calculation of any interest due applies to transactions between subcontractors and lower-tier subcontractors and material suppliers throughout the contracting chain.

This Special Provision establishes the required federal contract clause, and adopts the 15 calendar day requirement of the State Prompt Payment Act for purposes of compliance with the federal regulation regarding payments to subcontractors. This contract is subject to the following payment obligations.

When progress payments are made to the Contractor according to Article 109.07 of the Standard Specifications, the Contractor shall make a corresponding payment to each subcontractor and material supplier in proportion to the work satisfactorily completed by each subcontractor and for the material supplied to perform any work of the contract. The proportionate amount of partial payment due to each subcontractor and material supplier throughout the contracting chain shall be determined by the quantities measured or otherwise determined as eligible for payment by the Department and included in the progress payment to the Contractor. Subcontractors and material suppliers shall be paid by the Contractor within 15 calendar days after the receipt of payment from the Department. The Contractor shall not hold retainage from the subcontractors. These obligations shall also apply to any payments made by subcontractors and material suppliers to their subcontractors and material suppliers; and to all payments made to lower tier subcontractors and material suppliers throughout the contracting chain. Any payment or portion of a payment subject to this provision may only be withheld from the subcontractor or material supplier to whom it is due for reasonable cause.

This Special Provision does not create any rights in favor of any subcontractor or material supplier against the State or authorize any cause of action against the State on account of any payment, nonpayment, delayed payment, or interest claimed by application of the State Prompt Payment Act. The Department will not approve any delay or postponement of the 15 day requirement except for reasonable cause shown after notice and hearing pursuant to Section 7(b) of the State Prompt Payment Act. State law creates other and additional remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly performed or material furnished. These remedies are a lien against public funds set forth in Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c), and a recovery on the Contractor's payment bond according to the Public Construction Bond Act, 30 ILCS 550.

#### **POST MOUNTING OF SIGNS (BDE)**

Effective: January 1, 2011

Revise the second paragraph of Article 701.14 of the Standard Specifications to read:

“Post mounted signs shall be a breakaway design. The sign shall be within five degrees of vertical. Two posts shall be used for signs greater than 16 sq ft (1.5 sq m) in area or where the height between the sign and the ground exceeds 7 ft (2.1 m).”

#### **PRECAST CONCRETE HANDLING HOLES (BDE)**

Effective: January 1, 2007

Add the following to Article 540.02 of the Standard Specifications:

“(g) Handling Hole Plugs 1042.16”

Add the following paragraph after the sixth paragraph of Article 540.06 of the Standard Specifications:

“Handling holes shall be filled with a precast concrete plug and sealed with mastic or mortar, or filled with a polyethylene plug. The plug shall not project beyond the inside surface after installation. When metal lifting inserts are used, their sockets shall be filled with mastic or mortar.”

Add the following to Article 542.02 of the Standard Specifications:

“(ee) Handling Hole Plugs 1042.16”

Revise the fifth paragraph of Article 542.04(d) of the Standard Specifications to read:

“Handling holes in concrete pipe shall be filled with a precast concrete plug and sealed with mastic or mortar; or filled with a polyethylene plug. The plug shall not project beyond the inside surface after installation.”

Add the following to Article 550.02 of the Standard Specifications:

“(o) Handling Hole Plugs 1042.16”

Replace the fourth sentence of the fifth paragraph of Article 550.06 of the Standard Specifications with the following:

“Handling holes in concrete pipe shall be filled with a precast concrete plug and sealed with mastic or mortar; or filled with a polyethylene plug. The plug shall not project beyond the inside surface after installation.”

Add the following to Article 602.02 of the Standard Specifications:

“(p) Handling Hole Plugs 1042.16(a)”

Replace the fifth sentence of the first paragraph of Article 602.07 of the Standard Specifications with the following:

“Handling holes shall be filled with a precast concrete plug and sealed with mastic or mortar. The plug shall not project beyond the inside surface after installation. When metal lifting inserts are used, their sockets shall be filled with mastic or mortar.”

Add the following to Section 1042 of the Standard Specifications:

“**1042.16 Handling Hole Plugs.** Plugs for handling holes in precast concrete products shall be as follows.

- (a) Precast Concrete Plug. The precast concrete plug shall have a tapered shape and shall have a minimum compressive strength of 3000 psi (20,700 kPa) at 28 days.

- (b) Polyethylene Plug. The polyethylene plug shall have a “mushroom” shape with a flat round top and a stem with three different size ribs. The plug shall fit snugly and cover the handling hole.

The plug shall be according to the following.

| Mechanical Properties    | Test Method | Value (min.)          |
|--------------------------|-------------|-----------------------|
| Flexural Modulus         | ASTM D 790  | 3300 psi (22,750 kPa) |
| Tensile Strength (Break) | ASTM D 638  | 1600 psi (11,030 kPa) |
| Tensile Strength (Yield) | ASTM D 638  | 1200 psi (8270 kPa)   |

| Thermal Properties    | Test Method | Value (min.)    |
|-----------------------|-------------|-----------------|
| Brittle Temperature   | ASTM D 746  | -49 °F (-45 °C) |
| Vicat Softening Point | ASTM D 1525 | 194 °F (90 °C)” |

**PUBLIC CONVENIENCE AND SAFETY (BDE)**

Effective: January 1, 2000

Add the following paragraph after the fourth paragraph of Article 107.09 of the Standard Specifications.

“On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical.”

**RAISED REFLECTIVE PAVEMENT MARKERS (BDE)**

Effective: November 1, 2009

Revised: April 1, 2010

Revise the first sentence of the second paragraph of Article 781.03(a) of the Standard Specifications to read:

“The pavement shall be cut to match the bottom contour of the marker using a concrete saw fitted with 18 and 20 in. (450 and 500 mm) diameter blades.”

**RECLAIMED ASPHALT PAVEMENT (RAP) (BDE)**

Effective: January 1, 2007

Revised: January 1, 2011

In Article 1030.02(g), delete the last sentence of the first paragraph in (Note 2).

Revise Section 1031 of the Standard Specifications to read:

**“SECTION 1031. RECLAIMED ASPHALT PAVEMENT**

**1031.01 Description.** Reclaimed asphalt pavement (RAP) is reclaimed asphalt pavement resulting from cold milling or crushing of an existing dense graded hot-mix asphalt (HMA) pavement.

The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.

**1031.02 Stockpiles.** The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. "Homogeneous Surface").

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

- (a) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. All FRAP shall be fractionated prior to testing by screening into a minimum of two size fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass one sieve size larger than the maximum sieve size specified for the mix the RAP will be used in.
- (b) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogenous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.
- (c) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, Superpave (High ESAL), HMA (High ESAL), or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (d) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from Class I, Superpave (High or Low ESAL), HMA (High or Low ESAL), or equivalent mixtures. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (e) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

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

Sheet asphalt shall be stockpiled separately.

**1031.03 Testing.** When used in HMA, the RAP/FRAP shall be sampled and tested either during or after stockpiling.

For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

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

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

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

| Parameter         | FRAP/Homogeneous/Conglomerate | Conglomerate "D" Quality |
|-------------------|-------------------------------|--------------------------|
| 1 in. (25 mm)     |                               | ± 5 %                    |
| 1/2 in. (12.5 mm) | ± 8 %                         | ± 15 %                   |
| No. 4 (4.75 mm)   | ± 6 %                         | ± 13 %                   |
| No. 8 (2.36 mm)   | ± 5 %                         |                          |
| No. 16 (1.18 mm)  |                               | ± 15 %                   |
| No. 30 (600 μm)   | ± 5 %                         |                          |
| No. 200 (75 μm)   | ± 2.0 %                       | ± 4.0 %                  |
| Asphalt Binder    | ± 0.4 % <sup>1/</sup>         | ± 0.5 %                  |
| $G_{mm}$          | ± 0.03                        |                          |

1/ The tolerance for FRAP shall be ± 0.3 %.

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

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

**1031.04 Quality Designation of Aggregate in RAP/FRAP.**

- (a) The aggregate quality of the RAP for homogenous, conglomerate, and conglomerate “D” quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.
- (1) RAP from Class I, Superpave (High ESAL)/HMA (High ESAL), or HMA (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
  - (2) RAP from Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
  - (3) RAP from Class I, Superpave (High ESAL), or HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.
  - (4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.
- (b) The aggregate quality of FRAP shall be determined as follows.
- (1) If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer. If the quality is not known, the quality shall be determined according to Article 1031.04(b)(2).
  - (2) Fractionated stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5000 tons (4500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant prequalified by the Department for the specified testing. The consultant shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the BMPR Aggregate Lab for MicroDeval Testing, according to Illinois Modified AASHTO T 327. A maximum loss of 15.0 percent will be applied for all HMA applications.”

**1031.05 Use of RAP/FRAP in HMA.** The use of RAP/FRAP shall be a Contractor’s option when constructing HMA in all contracts. The use of RAP/FRAP in HMA shall be as follows.

- (a) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (b) Steel Slag Stockpiles. RAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) surface mixtures only.
- (c) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be FRAP or homogeneous in which the coarse aggregate is Class B quality or better.
- (d) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP, homogeneous, or conglomerate, in which the coarse aggregate is Class C quality or better.

- (e) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, homogeneous, conglomerate, or conglomerate DQ.
- (f) When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in the table below for a given N Design.

Max RAP Percentage

| HMA Mixtures <sup>1/, 3/</sup> | Maximum % RAP          |                       |                  |
|--------------------------------|------------------------|-----------------------|------------------|
|                                | Binder/Leveling Binder | Surface               | Polymer Modified |
| Ndesign                        |                        |                       |                  |
| 30                             | 30                     | 30                    | 10               |
| 50                             | 25                     | 15                    | 10               |
| 70                             | 15 / 25 <sup>2/</sup>  | 10 / 15 <sup>2/</sup> | 10               |
| 90                             | 10                     | 10                    | 10               |
| 105                            | 10                     | 10                    | 10               |

- 1/ For HMA shoulder and stabilized subbase (HMA) N-30, the amount of RAP shall not exceed 50% of the mixture.
- 2/ Value of Max % RAP if homogeneous RAP stockpile of IL-9.5 RAP is utilized.
- 3/ When RAP exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275 °F (135 °C) the grades shall be reduced as follows:

Overlays:

When WMA contains between 20 and 30 percent RAP the high temperature shall be reduced by one grade (i.e. 25 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-22). When WMA contains 30 percent or more RAP the high and low temperature grades shall each be reduced by one grade (i.e. 35 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

Full Depth:

When WMA contains between 20 and 30 percent RAP, the low temperature shall be reduced by one grade (i.e. 25 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG64-28). When the WMA contains 30 percent or more RAP the high and low temperature grades shall each be reduced by one grade (i.e. 35 percent RAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

- (g) When the Contractor chooses the FRAP option, the percentage of FRAP shall not exceed the amounts indicated in the table below for a given N Design.

Max FRAP Percentage

| HMA Mixtures <sup>1/, 2/</sup> | Maximum % FRAP |                        |         |
|--------------------------------|----------------|------------------------|---------|
|                                | Ndesign        | Binder/Leveling Binder | Surface |
| 30                             | 35             | 35                     | 10      |
| 50                             | 30             | 25                     | 10      |
| 70                             | 25             | 20                     | 10      |
| 90                             | 20             | 15                     | 10      |
| 105                            | 10             | 10                     | 10      |

- 1/ For HMA shoulder and stabilized subbase (HMA) N30, the amount of FRAP shall not exceed 50 percent of the mixture.
- 2/ When FRAP exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275°F (135 °C) the grades shall be reduced as follows:

Overlays:

When WMA contains between 20 and 30 percent FRAP the high temperature shall be reduced by one grade (i.e. 25 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-22). When WMA contains 30 percent or more FRAP the high and low temperature grades shall each be reduced by one grade (i.e. 35 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

Full Depth:

When WMA contains between 20 and 30 percent FRAP, the low temperature shall be reduced by one grade (i.e. 25 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG64-28). When the WMA contains 30 percent or more FRAP the high and low temperature grades shall each be reduced by one grade (i.e. 35 percent FRAP would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

**1031.06 HMA Mix Designs.** At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP material meeting the above detailed requirements.

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

**1031.07 HMA Production.** The coarse aggregate in all RAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced.

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

If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

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

HMA plants utilizing RAP/FRAP shall be capable of automatically recording and printing the following information.

(a) Dryer Drum Plants.

- (1) Date, month, year, and time to the nearest minute for each print.
- (2) HMA mix number assigned by the Department.
- (3) Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- (4) Accumulated dry weight of RAP/FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- (5) Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- (6) Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- (7) Residual asphalt binder in the RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.
- (8) Aggregate and RAP/FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP/FRAP are printed in wet condition.)

(b) Batch Plants.

- (1) Date, month, year, and time to the nearest minute for each print.
- (2) HMA mix number assigned by the Department.
- (3) Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
- (4) Mineral filler weight to the nearest pound (kilogram).
- (5) RAP/FRAP weight to the nearest pound (kilogram).
- (6) Virgin asphalt binder weight to the nearest pound (kilogram).
- (7) Residual asphalt binder in the RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

**1031.08 RAP in Aggregate Surface Course and Aggregate Shoulders.** The use of RAP in aggregate surface course and aggregate shoulders shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except “Non-Quality” and “FRAP”. The testing requirements of Article 1031.03 shall not apply.
- (b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted.”

**SEEDING (BDE)**

Effective: July 1, 2004

Revised: July 1, 2010

Revise the following seeding mixtures shown in Table 1 of Article 250.07 of the Standard Specifications to read:

| "Table 1 - SEEDING MIXTURES             |   |                         |
|---|---|-------------------------|
| Class – Type                            | Seeds   | lb/acre<br>(kg/hectare) |
| 1A Salt Tolerant<br>Lawn Mixture 7/     | Bluegrass   | 60 (70)                 |
|   | Perennial Ryegrass  | 20 (20)                 |
|   | Red Fescue<br>(Audubon, Sea Link, or Epic)                              | 20 (20)                 |
|   | Hard Fescue<br>(Rescue 911, Spartan II, or Reliant IV)                  | 20 (20)                 |
|   | Fults Salt Grass 1/ or Salty Alkaligrass                                | 60 (70)                 |
| 2 Roadside Mixture 7/                   | Tall Fescue<br>(Inferno, Tarheel II, Quest, Blade Runner, or Falcon IV) | 100 (110)               |
|   | Perennial Ryegrass  | 50 (55)                 |
|   | Creeping Red Fescue   | 40 (50)                 |
|   | Red Top   | 10 (10)                 |
| 2A Salt Tolerant<br>Roadside Mixture 7/ | Tall Fescue<br>(Inferno, Tarheel II, Quest, Blade Runner, or Falcon IV) | 60 (70)                 |
|   | Perennial Ryegrass  | 20 (20)                 |
|   | Red Fescue<br>(Audubon, Sea Link, or Epic)                              | 30 (20)                 |
|   | Hard Fescue<br>(Rescue 911, Spartan II, or Reliant IV)                  | 30 (20)                 |
|   | Fults Salt Grass 1/ or Salty Alkaligrass                                | 60 (70)                 |

|    |                                    |  |  |
|----|------------------------------------|--|--|
| 3  | Northern Illinois Slope Mixture 7/ | Elymus Canadensis (Canada Wild Rye)<br>Perennial Ryegrass<br>Alsike Cover 2/<br>Desmanthus Illinoensis (Illinois Bundleflower) 2/, 5/<br>Andropogon Scoparius (Little Bluestem) 5/<br>Bouteloua Curtipendula (Side-Oats Grama)<br>Fults Salt Grass 1/ or Salty Alkaligrass<br>Oats, Spring<br>Slender Wheat Grass 5/<br>Buffalo Grass (Cody or Bowie) 4/, 5/, 9/ | 5 (5)<br>20 (20)<br>5 (5)<br>2 (2)<br>12 (12)<br>10 (10)<br>30 (35)<br>50 (55)<br>15 (15)<br>5 (5) |
| 6A | Salt Tolerant Conservation Mixture | Andropogon Scoparius (Little Bluestem) 5/<br>Elymus Canadensis (Canada Wild Rye) 5/<br>Buffalo Grass (Cody or Bowie) 4/, 5/, 9/<br>Vernal Alfalfa 2/<br>Oats, Spring<br>Fults Salt Grass 1/ or Salty Alkaligrass   | 5 (5)<br>2 (2)<br>5 (5)<br>15 (15)<br>48 (55)<br>20 (20)"  |

Revise Note 7 of Table 1 – Seeding Mixtures of Article 250.07 of the Standard Specifications to read:

“7/ In Districts 1 through 6, the planting times shall be April 1 to June 15 and August 1 to November 1. In Districts 7 through 9, the planting times shall be March 1 to June 1 and August 1 to November 15. Seeding may be performed outside these dates provided the Contractor guarantees a minimum of 75 percent uniform growth over the entire seeded area(s) after a period of establishment. Inspection dates for the period of establishment will be as follows: Seeding conducted in Districts 1 through 6 between June 16 and July 31 will be inspected after April 15 and seeding conducted between November 2 and March 31 will be inspected after September 15. Seeding conducted in Districts 7 through 9 between June 2 and July 31 will be inspected after April 15 and seeding conducted between November 16 and February 28 will be inspected after September 15. The guarantee shall be submitted to the Engineer in writing prior to performing the work. After the period of establishment, areas not exhibiting 75 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost to the Department.”

Revise the first paragraph of Article 1081.04(a) of the Standard Specifications to read:

“(a) Sampling and Testing. Each lot of seed furnished shall be tested by a State Agriculture Department (including other States) or by land grant college or university agricultural sections or by a Registered Seed Technologist. Germination testing of seed shall be accomplished within the 12 months prior to the seed being installed on the project.”

Delete the last sentence of the first paragraph of Article 1081.04(c)(2) of the Standard Specifications.

Revise Table II of Article 1081.04(c)(6) of the Standard Specifications to read:

| TABLE II                    |             |          |                  |        |   |       |
|-----------------------------|-------------|----------|------------------|--------|---|-------|
| Variety of Seeds            | Hard Seed % | Purity % | Pure Live Seed % | Weed % | Secondary *<br>Noxious Weeds<br>No. per oz (kg) | Notes |
|                             | Max.        | Min.     | Min.             | Max.   | Max. Permitted                                  |       |
| Alfalfa                     | 20          | 92       | 89               | 0.50   | 6 (211)   | 1/    |
| Clover, Alsike              | 15          | 92       | 87               | 0.30   | 6 (211)   | 2/    |
| Red Fescue, Audubon         | 0           | 97       | 82               | 0.10   | 3 (105)   | -     |
| Red Fescue, Creeping        | -           | 97       | 82               | 1.00   | 6 (211)   | -     |
| Red Fescue, Epic            | -           | 98       | 83               | 0.05   | 1 (35)  | -     |
| Red Fescue, Sea Link        | -           | 98       | 83               | 0.10   | 3 (105)   | -     |
| Tall Fescue, Blade Runner   | -           | 98       | 83               | 0.10   | 2 (70)  | -     |
| Tall Fescue, Falcon IV      | -           | 98       | 83               | 0.05   | 1 (35)  | -     |
| Tall Fescue, Inferno        | 0           | 98       | 83               | 0.10   | 2 (70)  | -     |
| Tall Fescue, Tarheel II     | -           | 97       | 82               | 1.00   | 6 (211)   | -     |
| Tall Fescue, Quest          | 0           | 98       | 83               | 0.10   | 2 (70)  | -     |
| Fults Salt Grass            | 0           | 98       | 85               | 0.10   | 2 (70)  | -     |
| Salty Alkaligrass           | 0           | 98       | 85               | 0.10   | 2 (70)  | -     |
| Kentucky Bluegrass          | -           | 97       | 80               | 0.30   | 7 (247)   | 4/    |
| Oats                        | -           | 92       | 88               | 0.50   | 2 (70)  | 3/    |
| Redtop                      | -           | 90       | 78               | 1.80   | 5 (175)   | 3/    |
| Ryegrass, Perennial, Annual | -           | 97       | 85               | 0.30   | 5 (175)   | 3/    |
| Rye, Grain, Winter          | -           | 92       | 83               | 0.50   | 2 (70)  | 3/    |
| Hard Fescue, Reliant IV     | -           | 98       | 83               | 0.05   | 1 (35)  | -     |
| Hard Fescue, Rescue 911     | 0           | 97       | 82               | 0.10   | 3 (105)   | -     |
| Hard Fescue, Spartan II     | -           | 98       | 83               | 0.10   | 3 (105)   | -     |
| Timothy                     | -           | 92       | 84               | 0.50   | 5 (175)   | 3/    |
| Wheat, hard Red Winter      | -           | 92       | 89               | 0.50   | 2 (70)  | 3/    |

Revise the first sentence of the first paragraph of Article 1081.04(c)(7) of the Standard Specifications to read:

“The seed quantities indicated per acre (hectare) for Prairie Grass Seed in Classes 3, 3A, 4, 4A, 6, and 6A in Article 250.07 shall be the amounts of pure, live seed per acre (hectare) for each species listed.”

**SELF-CONSOLIDATING CONCRETE FOR CAST-IN-PLACE CONSTRUCTION (BDE)**

Effective: November 1, 2005

Revised: July 1, 2010

Definition. Self-consolidating concrete is a flowable mixture that does not require mechanical vibration for consolidation.

Usage. Self-consolidating concrete may be used for cast-in-place concrete construction items involving Class MS, DS, and SI concrete.

Materials. Materials shall be according to Section 1021 of the Standard Specifications.

Mix Design Criteria. Article 1020.04 of the Standard Specifications shall apply, except as follows:

- (a) The cement factor shall be according to Article 1020.04 of the Standard Specifications. If the maximum cement factor is not specified, it shall not exceed 7.05 cwt/cu yd (418 kg/cu m). The cement factor shall not be reduced if a water-reducing, retarding, or high range water-reducing admixture is used.

- (b) The maximum allowable water/cement ratio shall be according to Article 1020.04 of the Standard Specifications or 0.44, whichever is lower.
- (c) The slump requirements shall not apply.
- (d) The coarse aggregate gradations shall be CA 13, CA 14, CA 16, or a blend of these gradations. CA 11 may be used when the Contractor provides satisfactory evidence to the Engineer that the mix will not segregate. The fine aggregate proportion shall be a maximum 50 percent by weight (mass) of the total aggregate used.
- (e) The slump flow range shall be  $\pm 2$  in. ( $\pm 50$  mm) of the Contractor target value, and within the overall Department range of 20 in. (510 mm) minimum to 28 in. (710 mm) maximum.
- (f) The visual stability index shall be a maximum of 1.
- (g) The J-ring value shall be a maximum of 4 in. (100 mm). The Contractor may specify a lower maximum in the mix design.
- (h) The L-box blocking ratio shall be a minimum of 60 percent. The Contractor may specify a higher minimum in the mix design.
- (i) The hardened visual stability index shall be a maximum of 1.

Test Methods. Illinois Test Procedures SCC-1, SCC-2, SCC-3, SCC-4, SCC-6, and Illinois Modified AASHTO T 22, 23, 121, 126, 141, 152, 177, 196, and 309 shall be used for testing of self-consolidating concrete mixtures.

Mix Design Submittal. The Contractor's Level III PCC Technician shall submit a mix design according to the "Portland Cement Concrete Level III Technician" course manual, except target slump information is not applicable and will not be required. However, a target slump flow shall be submitted.

A J-ring value shall be submitted if a lower mix design maximum will apply. An L-box blocking ratio shall be submitted if a higher mix design minimum will apply. The Contractor shall also indicate applicable construction items for the mix design.

Trial mixture information will be required by the Engineer. A trial mixture is a batch of concrete tested by the Contractor to verify the Contractor's mix design will meet specification requirements. Trial mixture information shall include test results as specified in the "Portland Cement Concrete Level III Technician" course manual. Test results shall also include slump flow, visual stability index, J-ring value or L-box blocking ratio, and hardened visual stability index. For the trial mixture, the slump flow shall be near the proposed target slump flow.

Trial Batch. A minimum 2 cu yd (1.5 cu m) trial batch shall be produced, and the self-consolidating concrete admixture dosage proposed by the Contractor shall be used. The slump flow shall be within 1.0 in. (25 mm) of the maximum slump flow range specified by the Contractor, and the air content shall be within the top half of the allowable specification range.

The trial batch shall be scheduled a minimum of 21 calendar days prior to anticipated use and shall be performed in the presence of the Engineer.

The Contractor shall provide the labor, equipment, and materials to test the concrete. The mixture will be evaluated by the Engineer for strength, air content, slump flow, visual stability index, J-ring value or L-box blocking ratio, and hardened visual stability index.

Upon review of the test data from the trial batch, the Engineer will verify or deny the use of the mix design and notify the Contractor.

A new trial batch will be required whenever there is a change in the source of any component material, proportions beyond normal field adjustments, dosage of the self-consolidating concrete admixture, batch sequence, mixing speed, mixing time, or as determined by the Engineer. The testing criteria for the new trial batch will be determined by the Engineer.

When necessary, the trial batches shall be disposed of according to Article 202.03 of the Standard Specifications.

Mixing Portland Cement Concrete. In addition to Article 1020.11 of the Standard Specifications, the mixing time for central-mixed concrete shall not be reduced as a result of a mixer performance test. Truck-mixed or shrink-mixed concrete shall be mixed in a truck mixer for a minimum of 100 revolutions.

Wash water, if used, shall be completely discharged from the drum or container before the succeeding batch is introduced.

The batch sequence, mixing speed, and mixing time shall be appropriate to prevent cement balls and mix foaming for central-mixed, truck-mixed, and shrink-mixed concrete.

Falsework and Forms. In addition to Articles 503.05 and 503.06 of the Standard Specifications, the Contractor shall ensure the design of the falsework and forms is adequate for the additional form pressure caused by the fluid concrete. Forms shall be tight to prevent leakage of fluid concrete.

When the form height for placing the self-consolidating concrete is greater than 10.0 ft (3.0 m), direct monitoring of form pressure shall be performed according to Illinois Test Procedure SCC-10. The monitoring requirement is a minimum, and the Contractor shall remain responsible for adequate design of the falsework and forms. The Contractor shall record the formwork pressure during concrete placement. This information shall be used by the Contractor to prevent the placement rate from exceeding the maximum formwork pressure allowed, to monitor the thixotropic change in the concrete during the pour, and to make appropriate adjustments to the mix design. This information shall be provided to the Engineer during the pour.

Placing and Consolidating. Concrete placement and consolidation shall be according to Article 503.07 of the Standard Specifications, except as follows:

Revise the third paragraph of Article 503.07 of the Standard Specifications to read:

“Open troughs and chutes shall extend as nearly as practicable to the point of deposit. The drop distance of concrete shall not exceed 5 ft (1.5 m). If necessary, a tremie shall be used to meet this requirement. The maximum distance of horizontal flow from the point of deposit shall be 25 ft (7.6 m), unless approved otherwise by the Engineer. For drilled shafts, free fall placement will not be permitted.”

Delete the seventh, eighth, ninth, and tenth paragraphs of Article 503.07 of the Standard Specifications.

Add to the end of the eleventh paragraph of Article 503.07 of the Standard Specifications the following:

“Concrete shall be rodded with a piece of lumber, conduit, or vibrator if the material has lost its fluidity prior to placement of additional concrete. The vibrator shall be the pencil head type with a maximum diameter or width of 1 in. (25 mm). Any other method for restoring the fluidity of the concrete shall be approved by the Engineer.”

Quality Control by Contractor at Plant. The specified test frequencies for aggregate gradation, aggregate moisture, air content, unit weight/yield, and temperature shall be performed as indicated in the contract.

Slump flow, visual stability index, and J-ring or L-box tests shall be performed as needed to control production. The hardened visual stability index test will not be required to be performed at the plant.

Quality Control by Contractor at Jobsite. The specified test frequencies for air content, strength, and temperature shall be performed as indicated in the contract.

Slump flow, visual stability index, and J-ring or L-box tests shall be performed on the first two truck deliveries of the day, and every 50 cu yd (40 cu m) thereafter. The Contractor shall select either the J-ring or L-box test for jobsite testing.

The hardened visual stability index test shall be performed on the first truck delivery of the day, and every 300 cu yd (230 cu m) thereafter. Slump flow, visual stability index, J-ring value or L-box blocking ratio, air content, and concrete temperature shall be recorded for each hardened visual stability index test.

The Contractor shall retain all hardened visual stability index cut cylinder specimens until the Engineer notifies the Contractor that the specimens may be discarded.

If mix foaming or other potential detrimental material is observed during placement or at the completion of the pour, the material shall be removed while the concrete is still plastic.

Quality Assurance by Engineer at Plant. For air content and aggregate gradation, quality assurance independent sample testing and split sample testing will be performed as indicated in the contract.

For slump flow, visual stability index, and J-ring or L-box tests, quality assurance independent sample testing and split sample testing will be performed as determined by the Engineer.

Quality Assurance by Engineer at Jobsite. For air content and strength, quality assurance independent sample testing and split sample testing will be performed as indicated in the contract.

For slump flow, visual stability index, J-ring or L-box, and hardened visual stability index tests, quality assurance independent sample testing will be performed as determined by the Engineer.

For slump flow and visual stability index quality assurance split sample testing, the Engineer will perform tests at the beginning of the project on the first three tests performed by the Contractor. Thereafter, a minimum of ten percent of total tests required of the Contractor will be performed per plant, which will include a minimum of one test per mix design. The acceptable limit of precision will be 1.5 in. (40 mm) for slump flow and a limit of precision will not apply to the visual stability index.

For the J-ring or the L-box quality assurance split sample testing, a minimum of 80 percent of the total tests required of the Contractor will be witnessed by the Engineer per plant, which will include a minimum of one witnessed test per mix design. The Engineer reserves the right to conduct quality assurance split sample testing. The acceptable limit of precision will be 1.5 in. (40 mm) for the J-ring value and ten percent for the L-box blocking ratio.

For each hardened visual stability index test performed by the Contractor, the cut cylinders shall be presented to the Engineer for determination of the rating. The Engineer reserves the right to conduct quality assurance split sample testing. A limit of precision will not apply to the hardened visual stability index.

### **SELF-CONSOLIDATING CONCRETE FOR PRECAST PRODUCTS (BDE)**

Effective: July 1, 2004

Revised: July 1, 2010

Definition. Self-consolidating concrete is a flowable mixture that does not require mechanical vibration for consolidation.

Usage. Self-consolidating concrete may be used for precast concrete products.

Materials. Materials shall be according to Section 1021 of the Standard Specifications.

Mix Design Criteria. The mix design criteria shall be as follows:

- (a) The minimum cement factor shall be according to Article 1020.04 of the Standard Specifications. If the maximum cement factor is not specified, it shall not exceed 7.05 cwt/cu yd (418 kg/cu m).
- (b) The maximum allowable water/cement ratio shall be according to Article 1020.04 of the Standard Specifications or 0.44, whichever is lower.
- (c) The slump requirements of Article 1020.04 of the Standard Specifications shall not apply.
- (d) The coarse aggregate gradations shall be CA 13, CA 14, CA 16, or a blend of these gradations. CA 11 may be used when the Contractor provides satisfactory evidence to the Engineer that the mix will not segregate. The fine aggregate proportion shall be a maximum 50 percent by weight (mass) of the total aggregate used.
- (e) The slump flow range shall be  $\pm 2$  in. ( $\pm 50$  mm) of the Contractor target value, and within the overall Department range of 20 in. (510 mm) minimum to 28 in. (710 mm) maximum.

- (f) The visual stability index shall be a maximum of 1.
- (g) The J-ring value shall be a maximum of 4 in. (100 mm). The Contractor may specify a lower maximum in the mix design.
- (h) The L-box blocking ratio shall be a minimum of 60 percent. The Contractor may specify a higher minimum in the mix design.
- (i) The hardened visual stability index shall be a maximum of 1.

Mixing Portland Cement Concrete. In addition to Article 1020.11 of the Standard Specifications, the mixing time for central-mixed concrete shall not be reduced as a result of a mixer performance test. Truck-mixed or shrink-mixed concrete shall be mixed in a truck mixer for a minimum of 100 revolutions.

Wash water, if used, shall be completely discharged from the drum or container before the succeeding batch is introduced.

The batch sequence, mixing speed, and mixing time shall be appropriate to prevent cement balls and mix foaming for central-mixed, truck-mixed, and shrink-mixed concrete.

Placing and Consolidating. The maximum distance of horizontal flow from the point of deposit shall be 25 ft (7.6 m), unless approved otherwise by the Engineer.

Concrete shall be rodded with a piece of lumber, conduit, or vibrator if the material has lost its fluidity prior to placement of additional concrete. The vibrator shall be the pencil head type with a maximum diameter or width of 1 in. (25 mm). Any other method for restoring the fluidity of the concrete shall be approved by the Engineer.

Mix Design Approval. The Contractor shall obtain mix design approval according to the Department's Policy Memorandum "Quality Control/Quality Assurance Program for Precast Concrete Products".

## **SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)**

Effective: April 2, 2005

Revised: April 1, 2011

To account for the preparatory work and operations necessary for the movement of subcontractor personnel, equipment, supplies, and incidentals to the project site and for all other work or operations that must be performed or costs incurred when beginning work approved for subcontracting according to Article 108.01 of the Standard Specifications, the Contractor shall make a mobilization payment to each subcontractor.

This mobilization payment shall be made at least 14 days prior to the subcontractor starting work. The amount paid shall be equal to 3 percent of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor's work.

The mobilization payment to the subcontractor is an advance payment of the reported amount of the subcontract and is not a payment in addition to the amount of the subcontract; therefore, the amount of the advance payment will be deducted from future progress payments.

This provision shall be incorporated directly or by reference into each subcontract approved by the Department.

**TEMPORARY EROSION CONTROL (BDE)**

Effective: November 1, 2002

Revised: January 1, 2011

Add the following to Article 280.02 of the Standard Specifications to read:

- “(k) Filter Fabric ..... 1080.03
- “(l) Urethane Foam/Geotextile .....1081.15(i)”

Revise the third paragraph of Article 280.03 of the Standard Specifications to read:

“Erosion control systems shall be installed prior to beginning any activities which will potentially create erodible conditions. Erosion control systems for areas outside the limits of construction such as storage sites, plant sites, waste sites, haul roads, and Contractor furnished borrow sites shall be installed prior to beginning soil disturbing activities at each area. These offsite systems shall be designed by the Contractor and be subject to the approval of the Engineer.”

Add the following paragraph after the third paragraph of Article 280.03 of the Standard Specifications:

“The temporary erosion and sediment control systems shown on the plans represent the minimum systems anticipated for the project. Conditions created by the Contractor’s operations, or for the Contractor’s convenience, which are not covered by the plans, shall be protected as directed by the Engineer at no additional cost to the Department. Revisions or modifications of the erosion and sediment control systems shall have the Engineer’s written approval.”

Revise Article 280.04(a) of the Standard Specifications to read:

- “(a) Temporary Ditch Checks. This system consists of the construction of temporary ditch checks to prevent siltation, erosion, or scour of ditches and drainage ways. Temporary ditch checks shall be constructed with products from the Department’s approved list, rolled excelsior, or with aggregate placed on filter fabric when specified. Filter fabric shall be installed according to the requirements of Section 282. Riprap shall be placed according to Article 281.04. Manufactured ditch checks shall be installed according to the manufacturer’s specifications. Spacing of ditch checks shall be such that the low point in the center of one ditch check is at the same elevation as the base of the ditch check immediately upstream. Temporary ditch checks shall be sufficiently long enough that the top of the device in the middle of the ditch is 6 in. (150 mm) lower than the bottom of the terminating ends of the ditch side slopes.

When rolled excelsior is used, each ditch check shall be installed and maintained such that the device is no less than 10 in. (250 mm) high at the point of overflow. Units installed at a spacing requiring a height greater than 10 in. (250 mm) shall be maintained at the height for the spacing at which they were originally installed.”

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

“The barrier shall be constructed with rolled excelsior, silt filter fence, or urethane foam/geotextiles.”

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

“The temporary mulch cover shall be installed according to Article 251.03 except for any reference to seeding.”

Add the following to Article 280.04 of the Standard Specifications:

- (h) Temporary Erosion Control Blanket. This system consists of temporarily installing erosion control blanket or heavy duty erosion control blanket over areas that are to be reworked during a later construction phase. Work shall be according to Article 251.04 except references to seeding and fertilizer shall not apply. When an area is to be reworked more than once, the blanket shall be carefully removed, properly stored, and then reinstalled over the same area.”

Revise Article 280.07(b) of the Standard Specifications to read:

- “(b) Temporary Ditch Checks. This work will be measured for payment along the long axis of the device in place in feet (meters) except for aggregate ditch checks which will be measured for payment in tons (metric tons). Payment will not be made for aggregate in excess of 108 percent of the amount specified by the Engineer.”

Revise Article 280.07(f) of the Standard Specifications to read:

- “(f) Temporary Mulch. This work will be measured for payment according to Article 251.05(b).”

Add the following to Article 280.07 of the Standard Specifications:

- “(g) Temporary Erosion Control Blanket. This work will be measured for payment in place in square yards (square meters) of actual surface covered.

Add the following paragraph after the ninth paragraph of Article 280.07 of the Standard Specifications:

“Temporary or permanent erosion control systems required for areas outside the limits of construction will not be measured for payment.”

Revise Article 280.08(b) of the Standard Specifications to read:

- “(b) Temporary Ditch Checks. This work will be paid for at the contract unit price per foot (meter) for TEMPORARY DITCH CHECKS except for aggregate ditch checks which will be paid for at the contract unit price per ton (metric ton) for AGGREGATE DITCH CHECKS.”

Revise Article 280.08(f) of the Standard Specifications to read:

“(f) Temporary Mulch. Temporary Mulch will be paid for according to Article 251.06.”

Add the following to Article 280.08 of the Standard Specifications:

“(g) Temporary Erosion Control Blanket. Temporary Erosion Control Blanket will be paid for at the contract unit price per square yard (square meter) for TEMPORARY EROSION CONTROL BLANKET or TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET.

The work of removing, storing, and reinstalling the blanket over areas to be reworked more than once will not be paid for separately but shall be included in the cost of the temporary erosion control blanket or temporary heavy duty erosion control blanket.”

Delete the tenth (last) paragraph of Article 280.08 of the Standard Specifications.

Revise the second sentence of the first paragraph of Article 1081.15(e) of the Standard Specifications to read:

“The upstream facing of the aggregate ditch check shall be constructed of gradation CA 3. The remainder of the ditch check shall be constructed of gradation RR 3.”

Revise Article 1081.15(f) of the Supplemental Specifications to read:

“(f) Rolled Excelsior. Rolled excelsior shall consist of an excelsior fiber filling totally encased inside netting and sealed with metal clips or knotted at the ends. The fiber density shall be a minimum of 1.24 lb/cu ft (20 kg/cu m) based on a moisture content of 22 percent at manufacturing. The netting shall be composed of a polyester or polypropylene material which retains 70 percent of its strength after 500 hours of exposure to sunlight. The maximum opening of the net shall be 1 x 1 in. (25 x 25 mm).”

Add the following to Article 1081.15 of the Standard Specifications:

“(i) Urethane Foam/Geotextile. Urethane foam/geotextile shall be triangular shaped having a minimum height of 10 in. (250 mm) in the center with equal sides and a minimum 20 in. (500 mm) base. The triangular shaped inner material shall be a low density urethane foam. The outer cover shall be a woven geotextile fabric placed around the inner material and allowed to extend beyond both sides of the triangle a minimum of 18 in. (450 mm).

(1) The geotextile shall meet the following properties:

| Property                               | Value           | Test Method |
|--|-----------------|-------------|
| Grab Tensile Strength<br>lb (N) (min.) | 124 (550) min.  | ASTM D 4632 |
| Grab Elongation @ Brake (percent)      | 15 min.         | ASTM D 4632 |
| Burst Strength psi (kPa)               | 280 (1930) min. | ASTM D 3786 |
| AOS (Sieve No.)                        | 30 min.         | ASTM D 4751 |
| UV Resistance (500 hours) (percent)    | 80 min.         | ASTM D 4355 |

(2) The urethane foam shall meet the following properties:

| Property                      | Value                  | Test Method  |
|-------------------------------|------------------------|--------------|
| Density lb/cu ft (kg/cu m)    | 1.0 ± 0.1 (16.0 ± 1.6) | ASTM D 3574  |
| Tensile Strength psi (kPa)    | 10 (70) min.           | ASTM D 3574  |
| Elongation (percent)          | 125 min.               | ASTM D 3574  |
| Tear Resistance lb/in. (N/mm) | 1.25 (0.22)            | ASTM D 3574" |

**TRUCK MOUNTED/TRAILER MOUNTED ATTENUATORS (BDE)**

Effective: January 1, 2010

Revise Article 701.03(k) of the Standard Specifications to read:

“(k) Truck Mounted/Trailer Mounted Attenuators ..... 1106.02”

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

“(h) Truck Mounted/Trailer Mounted Attenuators (TMA). TMA units shall have a roll ahead distance in the event of an impact. The TMA shall be between 100 and 200 ft (30 and 60 m) behind the vehicle ahead or the workers. This distance may be extended by the Engineer.

TMA host vehicles shall have the parking brake engaged when stationary.

The driver and passengers of the TMA host vehicle should exit the vehicle if the TMA is to remain stationary for 15 minutes or more in duration.”

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

“(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be a NCHRP 350 approved unit for Test Level 3. Test Level 2 may be used as directed by the Engineer for normal posted speeds less than or equal to 45 mph.”

**UTILITY COORDINATION AND CONFLICTS (BDE)**

Effective: April 1, 2011

Revise Article 105.07 of the Standard Specifications to read:

“**105.07 Cooperation with Utilities.** The Department reserves the right at any time to allow work by utilities on or near the work covered by the contract. The Contractor shall conduct his/her work so as not to interfere with or hinder the progress or completion of the work being performed by utilities. The Contractor shall also arrange the work and shall place and dispose of the materials being used so as not to interfere with the operations of utility work in the area.

The Contractor shall cooperate with the owners of utilities in their removal and rearrangement operations so work may progress in a reasonable manner, duplication or rearrangement of work may be reduced to a minimum, and services rendered by those parties will not be unnecessarily interrupted.

The Contractor shall coordinate with any planned utility adjustment or new installation and the Contractor shall take all precautions to prevent disturbance or damage to utility facilities. Any failure on the part of the utility owner, or their representative, to proceed with any planned utility adjustment or new installation shall be reported promptly by the Contractor to the Engineer.”

Revise the first sentence of the last paragraph of Article 107.19 of the Standard Specifications to read:

“When the Contractor encounters unexpected regulated substances due to the presence of utilities in unanticipated locations, the provisions of Article 107.40 shall apply; otherwise, if the Engineer does not direct a resumption of operations, the provisions of Article 108.07 shall apply.”

Revise Article 107.31 of the Standard Specification to read:

**“107.31 Reserved.”**

Add the following four Articles to Section 107 of the Standard Specifications:

**“107.37 Locations of Utilities within the Project Limits.** All known utilities existing within the limits of construction are either indicated on the plans or visible above ground. For the purpose of this Article, the limits of proposed construction are defined as follows:

(a) Limits of Proposed Construction for Utilities Paralleling the Roadway.

- (1) The horizontal limits shall be a vertical plane, outside of, parallel to, and 2 ft (600 mm) distant at right angles from the plan or revised slope limits.

In cases where the limits of excavation for structures are not shown on the plans, the horizontal limits shall be a vertical plane 4 ft (1.2 m) outside the edges of structure footings or the structure where no footings are required.

- (2) The upper vertical limits shall be the regulations governing the roadbed clearance for the specific utility involved.
- (3) The lower vertical limits shall be either the top of the utility at the depth below the proposed grade as prescribed by the governing agency or the limits of excavation, whichever is less.

(b) Limits of Proposed Construction for Utilities Crossing the Roadway in a Generally Transverse Direction.

- (1) Utilities crossing excavations for structures that are normally made by trenching such as sewers, underdrains, etc. and all minor structures such as manholes, inlets, foundations for signs, foundations for traffic signals, etc., the limits shall be the space to be occupied by the proposed permanent construction, unless otherwise required by the regulations governing the specific utility involved.

- (2) For utilities crossing the proposed site of major structures such as bridges, sign trusses, etc., the limits shall be as defined above for utilities extending in the same general direction as the roadway.

It is understood and agreed that the Contractor has considered in the bid all of the permanent and temporary utilities in their present and/or adjusted positions as indicated in the contract. It is further understood the actual location of the utilities may be located anywhere within the tolerances provided in 220 ILCS 50/2.8 or Administrative Code Title 92 Part 530.40(c), and the proximity of some utilities to construction may require extraordinary measures by the Contractor to protect those utilities.

No additional compensation will be allowed for any delays, inconveniences, or damages sustained by the Contractor due to the presence of or any claimed interference from known utility facilities or any adjustment of them, except as specifically provided in the contract.

**107.38 Adjustments of Utilities within the Project Limits.** The adjustment of utilities consists of the relocation, removal, replacement, rearrangements, reconstruction, improvement, disconnection, connection, shifting, new installation, or altering of an existing utility facility in any manner.

Utilities which are to be adjusted shall be adjusted by the utility owner or the owner's representative or by the Contractor as a contract item. Generally, arrangements for adjusting known utilities will be made by the Department prior to project construction; however, utilities will not necessarily be adjusted in advance of project construction and, in some cases, utilities will not be removed from the proposed construction limits as described in Article 107.37. When utility adjustments must be performed in conjunction with construction, the utility adjustment work will be indicated in the contract.

The Contractor may make arrangements for adjustment of utilities indicated in the contract, but not scheduled by the Department for adjustment, provided the Contractor furnishes the Department with a signed agreement with the utility owner covering the adjustments to be made. The cost of any such adjustments shall be the responsibility of the Contractor.

**107.39 Contractor's Responsibility for Locating and Protecting Utility Property and Services.** At points where the Contractor's operations are adjacent to properties or facilities of utility companies, or are adjacent to other property, damage to which might result in considerable expense, loss, or inconvenience, work shall not be commenced until all arrangements necessary for the protection thereof have been made.

Within the State of Illinois, a State-Wide One Call Notice System has been established for notifying utilities. Outside the city limits of the City of Chicago, the system is known as the Joint Utility Locating Information for Excavators (JULIE) System. Within the city limits of the City of Chicago the system is known as DIGGER. All utility companies and municipalities which have buried utility facilities in the State of Illinois are a part of this system.

The Contractor shall call JULIE (800-892-0123) or DIGGER (312-744-7000), a minimum of 48 hours in advance of work being done in the area, and they will notify all member utility companies involved their respective utility should be located.

For utilities which are not members of JULIE or DIGGER, the Contractor shall contact the owners directly.

The plan general notes will indicate which utilities are not members of JULIE or DIGGER.

The following table indicates the color of markings required of the State-Wide One Call Notification System.

| Utility Service                               | Color  |
|---|--|
| Electric Power, Distribution and Transmission | Safety Red   |
| Municipal Electric Systems                    | Safety Red   |
| Gas Distribution and Transmission             | High Visibility Safety Yellow                      |
| Oil Distribution and Transmission             | High Visibility Safety Yellow                      |
| Telephone and Telegraph System                | Safety Alert Orange                                |
| Community Antenna Television Systems          | Safety Alert Orange                                |
| Water Systems                                 | Safety Precaution Blue                             |
| Sewer Systems                                 | Safety Green                                       |
| Non-Potable Water and Slurry Lines            | Safety Purple                                      |
| Temporary Survey                              | Safety Pink  |
| Proposed Excavation                           | Safety White<br>(Black when snow is on the ground) |

The State-Wide One Call Notification System will provide for horizontal locations of utilities. When it is determined that the vertical location of the utility is necessary to facilitate construction, the Engineer may make the request for location from the utility after receipt of notice from the Contractor. If the utility owner does not field locate their facilities to the satisfaction of the Engineer, the Engineer will authorize the Contractor in writing to proceed to locate the facilities in the most economical and reasonable manner, subject to the approval of the Engineer, and be paid according to Article 109.04.

The Contractor shall be responsible for maintaining the excavations or markers provided by the utility owners.

The Contractor shall take all necessary precautions for the protection of the utility facilities. The Contractor shall be responsible for any damage or destruction of utility facilities resulting from neglect, misconduct, or omission in the Contractor's manner or method of execution or nonexecution of the work, or caused by defective work or the use of unsatisfactory materials. Whenever any damage or destruction of a utility facility occurs as a result of work performed by the Contractor, the utility company will be immediately notified. The utility company will make arrangements to restore such facility to a condition equal to that existing before any such damage or destruction was done.

In the event of interruption of utility services as a result of accidental breakage or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with the said authority in the restoration of service. If water service is interrupted, repair work shall be continuous until the service is restored. No work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.

**107.40 Conflicts with Utilities.** Except as provided hereinafter, the discovery of a utility in an unanticipated location will be evaluated according to Article 104.03.

It is understood and agreed that the Contractor has considered in the bid all facilities not meeting the definition of a utility in an unanticipated location and no additional compensation will be allowed for any delays, inconveniences, or damages sustained by the Contractor due to the presence of or any claimed interference from such facilities.

When the Contractor discovers a utility in an unanticipated location, the Contractor shall not interfere with said utility, shall take proper precautions to prevent damage or interruption of the utility, and shall promptly notify the Engineer of the nature and location of said utility.

(a) Definition. A utility in an unanticipated location is defined as an active or inactive utility, which is either:

(1) Located underground and (a) not shown in any way in any location on the contract documents; (b) not identified in writing by the Department to the Contractor prior to the letting; or (c) not located relative to the location shown in the contract within the tolerances provided in 220 ILCS 50/2.8 or Administrative Code Title 92 Part 530.40(c); or

(2) Located above ground or underground and not relocated as provided in the contract.

Service connections shall not be considered to be utilities in unanticipated locations.

(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 applicable to the utility 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 Contractor's operation is completely stopped by a utility in an unanticipated location for more than two hours, but not to exceed three weeks.

(2) Major Delay. A major delay occurs when the Contractor's operation is completely stopped by a utility in an unanticipated location for more than three weeks.

(3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the contractor's rate of production decreases by more than 25 percent and lasts longer than seven days.

(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 will be paid for according to Article 109.04(b)(4). The length of time paid for will be the time between start of delay and eight hours working time from start of shift being worked.

For delays exceeding the initial shift, excluding Saturdays, Sundays, and holidays, Contractor-owned equipment idled by the delay which cannot be used on other work and remaining at the work site, will be paid at one-half the rate permitted in Article 109.04(b)(4) using a maximum eight hours per day for computation purposes. Equipment rented from an independent source will be paid at rates being paid by the Contractor plus move-in move-out costs, but the total amount paid will not exceed three weeks rental.

(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 three weeks plus the cost of move-out to either the Contractor's yard or another job, whichever is less. Rental equipment may be paid for longer than three 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 days. Determination of compensation will be in accordance with Article 104.02, except labor and material additives will not be permitted.

Whether covered by (1), (2) or (3) above, additional traffic control required as a result of the operation(s) delayed will be paid for according to Article 109.04 for the total length of the delay.

If the delay is clearly shown to have caused work, which would have otherwise been completed, to be done after material or labor costs have increased, such increases may be paid. Payment for materials will be limited to increased cost substantiated by documentation furnished by the Contractor. Payment for increased labor rates will include those items in Article 109.04(b)(1) and (2), except the 35 percent and ten percent additives will not be permitted. On a working day contract, a delay occurring between November 30 and May 1, when work has not started, will not be considered as eligible for payment of measured labor and material costs.

Project overhead (not including interest) will be allowed when all progress on the contract has been delayed, and will be calculated as 15 percent of the delay claim.

(d) Other Obligations of Contractor. Upon payment of a claim 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."

**BITUMINOUS MATERIALS COST ADJUSTMENTS (BDE) (RETURN FORM WITH BID)**

Effective: November 2, 2006

Revised: April 1, 2009

Description. Bituminous material cost adjustments will be made to provide additional compensation to the Contractor, or credit to the Department, for fluctuations in the cost of bituminous materials when optioned by the Contractor. The adjustments shall apply to permanent and temporary hot-mix asphalt (HMA) mixtures, bituminous surface treatments (cover and seal coats), and pavement preservation type surface treatments. The adjustments shall not apply to bituminous prime coats, tack coats, crack filling/sealing, or joint filling/sealing.

The bidder shall indicate on the attached form whether or not this special provision will be part of the contract and submit the completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments.

Method of Adjustment. Bituminous materials cost adjustments will be computed as follows.

$$CA = (BPI_P - BPI_L) \times (\%AC_V / 100) \times Q$$

Where: CA = Cost Adjustment, \$.

BPI<sub>P</sub> = Bituminous Price Index, as published by the Department for the month the work is performed, \$/ton (\$/metric ton).

BPI<sub>L</sub> = Bituminous Price Index, as published by the Department for the month prior to the letting, \$/ton (\$/metric ton).

%AC<sub>V</sub> = Percent of virgin Asphalt Cement in the Quantity being adjusted. For HMA mixtures, the % AC<sub>V</sub> will be determined from the adjusted job mix formula. For bituminous materials applied, a performance graded or cutback asphalt will be considered to be 100% AC<sub>V</sub> and undiluted emulsified asphalt will be considered to be 65% AC<sub>V</sub>.

Q = Authorized construction Quantity, tons (metric tons) (see below).

For HMA mixtures measured in square yards:  $Q, \text{ tons} = A \times D \times (G_{mb} \times 46.8) / 2000$ . For HMA mixtures measured in square meters:  $Q, \text{ metric tons} = A \times D \times (G_{mb} \times 24.99) / 1000$ . When computing adjustments for full-depth HMA pavement, separate calculations will be made for the binder and surface courses to account for their different  $G_{mb}$  and  $\% AC_V$ .

For bituminous materials measured in gallons:  $Q, \text{ tons} = V \times 8.33 \text{ lb/gal} \times SG / 2000$   
For bituminous materials measured in liters:  $Q, \text{ metric tons} = V \times 1.0 \text{ kg/L} \times SG / 1000$

Where: A = Area of the HMA mixture, sq yd (sq m).  
D = Depth of the HMA mixture, in. (mm).  
 $G_{mb}$  = Average bulk specific gravity of the mixture, from the approved mix design.  
V = Volume of the bituminous material, gal (L).  
SG = Specific Gravity of bituminous material as shown on the bill of lading.

Basis of Payment. Bituminous materials cost adjustments may be positive or negative but will only be made when there is a difference between the  $BPI_L$  and  $BPI_P$  in excess of five percent, as calculated by:

$$\text{Percent Difference} = \{(BPI_L - BPI_P) \div BPI_L\} \times 100$$

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

## RETURN WITH BID

### ILLINOIS DEPARTMENT OF TRANSPORTATION

### OPTION FOR BITUMINOUS MATERIALS COST ADJUSTMENTS

The bidder shall submit this completed form with his/her bid. Failure to submit the form, or failure to fill out the form completely, shall make this contract exempt of bituminous materials cost adjustments. After award, this form, when submitted, shall become part of the contract.

**Contract No.:** \_\_\_\_\_

**Company Name:** \_\_\_\_\_

**Contractor's Option:**

Is your company opting to include this special provision as part of the contract?

Yes  No

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**FUEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID)**

Effective: April 1, 2009

Revised: July 1, 2009

Description. Fuel cost adjustments will be made to provide additional compensation to the Contractor, or a credit to the Department, for fluctuations in fuel prices when optioned by the Contractor. The bidder shall indicate on the attached form whether or not this special provision will be part of the contract and submit the completed form with his/her bid. Failure to submit the form or failure to indicate contract number, company name and sign and date the form shall make this contract exempt of fuel cost adjustments for all categories of work. Failure to indicate "Yes" for any category of work will make that category of work exempt from fuel cost adjustment.

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

(a) Categories of Work.

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

- (4) Category D: Portland Cement Concrete (PCC) Bases, Pavements and Shoulders. Contract pay items constructed under Sections 353, 420, 421 and 483 including any modified standard or nonstandard items where the character of the work to be performed is considered PCC base, pavement or shoulder. The cumulative total of all applicable item plan quantities shall exceed 7500 sq yd (6000 sq m). Included in the fuel usage factor is 1.20 gal/cu yd (5.94 liters/cu m) factor for trucking.
- (5) Category E: Structures. Structure items having a cumulative bid price that exceeds \$250,000 for pay items constructed under Sections 502, 503, 504, 505, 512, 516 and 540 including any modified standard or nonstandard items where the character of the work to be performed is considered structure work when similar to that performed under these sections and not included in categories A through D.

(b) Fuel Usage Factors.

| English Units                          |        |              |
|--|--------|--------------|
| Category                               | Factor | Units        |
| A - Earthwork                          | 0.34   | gal / cu yd  |
| B – Subbase and Aggregate Base courses | 0.62   | gal / ton    |
| C – HMA Bases, Pavements and Shoulders | 1.05   | gal / ton    |
| D – PCC Bases, Pavements and Shoulders | 2.53   | gal / cu yd  |
| E – Structures                         | 8.00   | gal / \$1000 |

| Metric Units                           |        |                     |
|--|--------|---------------------|
| Category                               | Factor | Units               |
| A - Earthwork                          | 1.68   | liters / cu m       |
| B – Subbase and Aggregate Base courses | 2.58   | liters / metric ton |
| C – HMA Bases, Pavements and Shoulders | 4.37   | liters / metric ton |
| D – PCC Bases, Pavements and Shoulders | 12.52  | liters / cu m       |
| E – Structures                         | 30.28  | liters / \$1000     |

(c) Quantity Conversion Factors.

| Category | Conversion         | Factor                               |
|----------|--------------------|--------------------------------------|
| B        | sq yd to ton       | 0.057 ton / sq yd / in depth         |
|          | sq m to metric ton | 0.00243 metric ton / sq m / mm depth |
| C        | sq yd to ton       | 0.056 ton / sq yd / in depth         |
|          | sq m to metric ton | 0.00239 m ton / sq m / mm depth      |
| D        | sq yd to cu yd     | 0.028 cu yd / sq yd / in depth       |
|          | sq m to cu m       | 0.001 cu m / sq m / mm depth         |

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

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

Where: CA = Cost Adjustment, \$  
FPI<sub>P</sub> = Fuel Price Index, as published by the Department for the month the work is performed, \$/gal (\$/liter)  
FPI<sub>L</sub> = Fuel Price Index, as published by the Department for the month prior to the letting, \$/gal (\$/liter)  
FUF = Fuel Usage Factor in the pay item(s) being adjusted  
Q = Authorized construction Quantity, tons (metric tons) or cu yd (cu m)

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

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

Final Quantities. Upon completion of the work and determination of final pay quantities, an adjustment will be prepared to reconcile any differences between estimated quantities previously paid and the final quantities. The value for the balancing adjustment will be based on a weighted average of FPI<sub>P</sub> and Q only for those months requiring the cost adjustment. The cost adjustment will be applicable to the final measured quantities of all applicable pay items.

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

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

Return With Bid

**ILLINOIS DEPARTMENT  
OF TRANSPORTATION**

**OPTION FOR  
FUEL COST ADJUSTMENT**

The bidder shall submit this completed form with his/her bid. Failure to submit the form or properly complete contract number, company name, and sign and date the form shall make this contract exempt of fuel cost adjustments in all categories. Failure to indicate "Yes" for any category of work at the time of bid will make that category of work exempt from fuel cost adjustment. After award, this form, when submitted shall become part of the contract.

**Contract No.:** \_\_\_\_\_

**Company Name:** \_\_\_\_\_

**Contractor's Option:**

Is your company opting to include this special provision as part of the contract plans for the following categories of work?

- |  |     |                          |
|--|-----|--------------------------|
| Category A Earthwork.                          | Yes | <input type="checkbox"/> |
| Category B Subbases and Aggregate Base Courses | Yes | <input type="checkbox"/> |
| Category C HMA Bases, Pavements and Shoulders  | Yes | <input type="checkbox"/> |
| Category D PCC Bases, Pavements and Shoulders  | Yes | <input type="checkbox"/> |
| Category E Structures                          | Yes | <input type="checkbox"/> |

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**STEEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID)**

Effective: April 2, 2004

Revised: April 1, 2009

Description. Steel cost adjustments will be made to provide additional compensation to the Contractor, or a credit to the Department, for fluctuations in steel prices when optioned by the Contractor. The bidder shall indicate on the attached form whether or not this special provision will be part of the contract and submit the completed form with his/her bid. Failure to submit the form or failure to indicate contract number, company name, and sign and date the form shall make this contract exempt of steel cost adjustments for all items of steel. Failure to indicate "Yes" for any item of work will make that item of steel exempt from steel cost adjustment.

Types of Steel Products. An adjustment will be made for fluctuations in the cost of steel used in the manufacture of the following items:

Metal Piling (excluding temporary sheet piling)  
Structural Steel  
Reinforcing Steel

Other steel materials such as dowel bars, tie bars, mesh reinforcement, guardrail, steel traffic signal and light poles, towers and mast arms, metal railings (excluding wire fence), and frames and grates will be subject to a steel cost adjustment when the pay items they are used in has a contract value of \$10,000 or greater.

Documentation. Sufficient documentation shall be furnished to the Engineer to verify the following:

- (a) The dates and quantity of steel, in lb (kg), shipped from the mill to the fabricator.
- (b) The quantity of steel, in lb (kg), incorporated into the various items of work covered by this special provision. The Department reserves the right to verify submitted quantities.

Method of Adjustment. Steel cost adjustments will be computed as follows:

SCA = Q X D

Where: SCA = steel cost adjustment, in dollars  
Q = quantity of steel incorporated into the work, in lb (kg)  
D = price factor, in dollars per lb (kg)

$$D = MPI_M - MPI_L$$

Where:  $MPI_M$  = The Materials Cost Index for steel as published by the Engineering News-Record for the month the steel is shipped from the mill. The indices will be converted from dollars per 100 lb to dollars per lb (kg).

$MPI_L$  = The Materials Cost Index for steel as published by the Engineering News-Record for the month prior to the letting. The indices will be converted from dollars per 100 lb to dollars per lb (kg).

The unit weights (masses) of steel that will be used to calculate the steel cost adjustment for the various items are shown in the attached table.

No steel cost adjustment will be made for any products manufactured from steel having a mill shipping date prior to the letting date.

If the Contractor fails to provide the required documentation, the method of adjustment will be calculated as described above; however, the  $MPI_M$  will be based on the date the steel arrives at the job site. In this case, an adjustment will only be made when there is a decrease in steel costs.

Basis of Payment. Steel cost adjustments may be positive or negative but will only be made when there is a difference between the  $MPI_L$  and  $MPI_M$  in excess of five percent, as calculated by:

$$\text{Percent Difference} = \{(MPI_L - MPI_M) \div MPI_L\} \times 100$$

Steel cost adjustments will be calculated by the Engineer and will be paid or deducted when all other contract requirements for the items of work are satisfied. Adjustments will only be made for fluctuations in the cost of the steel as described herein. No adjustment will be made for changes in the cost of manufacturing, fabrication, shipping, storage, etc.

The adjustments shall not apply during contract time subject to liquidated damages for completion of the entire contract.

**Attachment**

| Item  | Unit Mass (Weight)             |
|---|--------------------------------|
| Metal Piling (excluding temporary sheet piling)                                   |                                |
| Furnishing Metal Pile Shells 12 in. (305 mm), 0.179 in. (3.80 mm) wall thickness) | 23 lb/ft (34 kg/m)             |
| Furnishing Metal Pile Shells 12 in. (305 mm), 0.250 in. (6.35 mm) wall thickness) | 32 lb/ft (48 kg/m)             |
| Furnishing Metal Pile Shells 14 in. (356 mm), 0.250 in. (6.35 mm) wall thickness) | 37 lb/ft (55 kg/m)             |
| Other piling  | See plans                      |
| Structural Steel  | See plans for weights (masses) |
| Reinforcing Steel   | See plans for weights (masses) |
| Dowel Bars and Tie Bars   | 6 lb (3 kg) each               |
| Mesh Reinforcement  | 63 lb/100 sq ft (310 kg/sq m)  |
| Guardrail   |                                |
| Steel Plate Beam Guardrail, Type A w/steel posts                                  | 20 lb/ft (30 kg/m)             |
| Steel Plate Beam Guardrail, Type B w/steel posts                                  | 30 lb/ft (45 kg/m)             |
| Steel Plate Beam Guardrail, Types A and B w/wood posts                            | 8 lb/ft (12 kg/m)              |
| Steel Plate Beam Guardrail, Type 2  | 305 lb (140 kg) each           |
| Steel Plate Beam Guardrail, Type 6  | 1260 lb (570 kg) each          |
| Traffic Barrier Terminal, Type 1 Special (Tangent)                                | 730 lb (330 kg) each           |
| Traffic Barrier Terminal, Type 1 Special (Flared)                                 | 410 lb (185 kg) each           |
| Steel Traffic Signal and Light Poles, Towers and Mast Arms                        |                                |
| Traffic Signal Post   | 11 lb/ft (16 kg/m)             |
| Light Pole, Tenon Mount and Twin Mount, 30 - 40 ft (9 - 12 m)                     | 14 lb/ft (21 kg/m)             |
| Light Pole, Tenon Mount and Twin Mount, 45 - 55 ft (13.5 - 16.5 m)                | 21 lb/ft (31 kg/m)             |
| Light Pole w/Mast Arm, 30 - 50 ft (9 - 15.2 m)                                    | 13 lb/ft (19 kg/m)             |
| Light Pole w/Mast Arm, 55 - 60 ft (16.5 - 18 m)                                   | 19 lb/ft (28 kg/m)             |
| Light Tower w/Luminaire Mount, 80 - 110 ft (24 - 33.5 m)                          | 31 lb/ft (46 kg/m)             |
| Light Tower w/Luminaire Mount, 120 - 140 ft (36.5 - 42.5 m)                       | 65 lb/ft (97 kg/m)             |
| Light Tower w/Luminaire Mount, 150 - 160 ft (45.5 - 48.5 m)                       | 80 lb/ft (119 kg/m)            |
| Metal Railings (excluding wire fence)   |                                |
| Steel Railing, Type SM  | 64 lb/ft (95 kg/m)             |
| Steel Railing, Type S-1   | 39 lb/ft (58 kg/m)             |
| Steel Railing, Type T-1   | 53 lb/ft (79 kg/m)             |
| Steel Bridge Rail   | 52 lb/ft (77 kg/m)             |
| Frames and Grates   |                                |
| Frame   | 250 lb (115 kg)                |
| Lids and Grates   | 150 lb (70 kg)                 |

## RETURN WITH BID

### ILLINOIS DEPARTMENT OF TRANSPORTATION

### OPTION FOR STEEL COST ADJUSTMENT

The bidder shall submit this completed form with his/her bid. Failure to submit the form or properly complete contract number, company name, and sign and date the form shall make this contract exempt of steel cost adjustments for all items of steel. Failure to indicate "Yes" for any item of work will make that item of steel exempt from steel cost adjustment. After award, this form, when submitted shall become part of the contract.

**Contract No.:** \_\_\_\_\_

**Company Name:** \_\_\_\_\_

#### **Contractor's Option:**

Is your company opting to include this special provision as part of the contract plans for the following items of work?

|  |     |                          |
|--|-----|--------------------------|
| Metal Piling   | Yes | <input type="checkbox"/> |
| Structural Steel   | Yes | <input type="checkbox"/> |
| Reinforcing Steel  | Yes | <input type="checkbox"/> |
| Dowel Bars, Tie Bars and Mesh Reinforcement                | Yes | <input type="checkbox"/> |
| Guardrail  | Yes | <input type="checkbox"/> |
| Steel Traffic Signal and Light Poles, Towers and Mast Arms | Yes | <input type="checkbox"/> |
| Metal Railings (excluding wire fence)                      | Yes | <input type="checkbox"/> |
| Frames and Grates  | Yes | <input type="checkbox"/> |

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

IEPA PERMIT



**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829  
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

PAT QUINN, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

217/782-3362

**APR 21 2011**

Rock Island District  
Corps of Engineers  
Post Office Box 2004  
Clock Tower Building  
Rock Island, IL 61204-2004



Re: Illinois Department of Transportation (Winnebago County)  
IL 173 from IL 251 easterly to Alpine Road. Two culvert replacements, one culvert extension  
channel relocation.  
Log # C- 0798-10[CoE appl. #2010-1383]

Gentlemen:

This Agency received a request on January 26, 2011 from Illinois Department of Transportation requesting necessary comments concerning the culvert replacement on Illinois 173 on the North Branch of Willow Creek in Winnebago County impacting the North Branch of Willow Creek. We offer the following comments.

Based on the information included in this submittal, it is our engineering judgment that the proposed project may be completed without causing water pollution as defined in the Illinois Environmental Protection Act, provided the project is carefully planned and supervised.

These comments are directed at the effect on water quality of the construction procedures involved in the above described project and are not an approval of any discharge resulting from the completed facility, nor an approval of the design of the facility. These comments do not supplant any permit responsibilities of the applicant toward the Agency.

This Agency hereby issues certification under Section 401 of the Clean Water Act (PL 95-217), subject to the applicant's compliance with the following conditions:

1. The applicant shall not cause:
  - a. violation of applicable water quality standards of the Illinois Pollution Control Board, Title 35, Subtitle C: Water Pollution Rules and Regulations;
  - b. water pollution defined and prohibited by the Illinois Environmental Protection Act; or
  - c. interference with water use practices near public recreation areas or water supply intakes.
2. The applicant shall provide adequate planning and supervision during the project construction period for implementing construction methods, processes and cleanup procedures necessary to prevent water pollution and control erosion.

Rockford • 4302 N. Main St., Rockford, IL 61103 • (815) 987-7760  
Elgin • 595 S. State, Elgin, IL 60123 • (847) 608-3131  
Bureau of Land – Peoria • 7620 N. University St., Peoria, IL 61614 • (309) 693-5462  
Collinsville • 2009 Mall Street, Collinsville, IL 62234 • (618) 346-5120

Des Plaines • 9511 W. Harrison St., Des Plaines, IL 60016 • (847) 294-4000  
Peoria • 5415 N. University St., Peoria, IL 61614 • (309) 693-5463  
Champaign • 2125 S. First St., Champaign, IL 61820 • (217) 278-5800  
Marion • 2309 W. Main St., Suite 116, Marion, IL 62959 • (618) 993-7200

Page No. 2  
Log No. C-0798-10

3. Any spoil material excavated, dredged or otherwise produced must not be returned to the waterway but must be deposited in a self-contained area in compliance with all state statutes, regulations and permit requirements with no discharge to waters of the State unless a permit has been issued by this Agency. Any backfilling must be done with clean material and placed in a manner to prevent violation of applicable water quality standards.
4. All areas affected by construction shall be mulched and seeded as soon after construction as possible. The applicant shall undertake necessary measures and procedures to reduce erosion during construction. Interim measures to prevent erosion during construction shall be taken and may include the installation of staked straw bales, sedimentation basins and temporary mulching. All construction within the waterway shall be constructed during zero or low flow conditions. The applicant shall be responsible for obtaining an NPDES Storm Water Permit prior to initiating construction if the construction activity associated with the project will result in the disturbance of 1 (one) or more acres, total land area. An NPDES Storm Water Permit may be obtained by submitting a properly completed Notice of Intent (NOI) form by certified mail to the Agency's Division of Water Pollution Control, Permit Section.
5. The applicant shall implement erosion control measures consistent with the "Illinois Urban Manual" (IEPA/USDA, NRCS; 2010).
6. Asphalt, bituminous material and concrete with protruding material such as reinforcing bar or mesh shall not be 1) used for backfill, 2) placed on shorelines/streambanks, or 3) placed in waters of the State.
7. The applicant is advised that the following permit(s) must be obtained from the Agency: The applicant must obtain permits to construct sanitary sewers, water mains and related facilities prior to construction.
8. The proposed work shall be constructed with adequate erosion control measures (i.e., silt fences, straw bales, etc.) to prevent transport of sediment and materials downstream.
9. The applicant shall use adequate measures (i.e., flumes, culverts, etc.) to maintain normal stream flow during construction.
10. The fill material used for the construction of the temporary causeway shall be predominantly sand or larger size material, with <20% passing a #230 U.S. sieve.

This certification becomes effective when the Department of the Army, Corps of Engineers, includes the above conditions # 1 through # 10 as conditions of the requested permit issued pursuant to Section 404 of PL 95-217.

This certification does not grant immunity from any enforcement action found necessary by this Agency to meet its responsibilities in prevention, abatement, and control of water pollution.

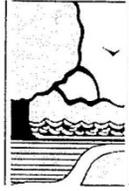
Sincerely,



Alan Keller, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

11-11-11

**IDNR PERMIT**



Illinois Department of  
**Natural Resources**

One Natural Resources Way Springfield, Illinois 62702-1271  
<http://dnr.state.il.us>

Pat Quinn, Governor  
Marc Miller, Director

February 24, 2011

**SUBJECT:** Permit No. DS2011022  
Channel Modification & Culvert Replacement  
IL Route 173 & Orlando Street over North Branch Willow Creek  
Village of Machesney Park, Winnebago County

Illinois Department of Transportation  
Division of Highways/Region 2/District 2  
819 Depot Avenue  
Dixon, Illinois 61021

**ATTENTION:** George F. Ryan, Deputy Director of Highways

Dear Mr. Ryan:

Enclosed is Illinois Department of Natural Resources, Office of Water Resources (IDNR/OWR) Permit No. DS2011022 authorizing the subject project. This approval is based on our determination that the project will not increase stream water surface profiles for flood events up to and including the 100-year frequency event. IDNR authorization is not required for the proposed twenty-six foot six-inch extension of the existing box culvert under IL 251. Such extensions are exempt from the Part 3700 floodway construction rules.

This permit does not supersede any other federal, state or local authorizations that may be required for the project. If any changes in the permitted work are found necessary, revised plans should be submitted promptly to this office for review and approval. Also, this permit expires on the date indicated in Condition (13). If unable to complete the work by that date, the permittee may make a written request for a time extension.

Please feel free to contact Jerry Bishoff of my staff at 217/558-6617 if you have any questions concerning this authorization.

Sincerely,

Michael L. Diedrichsen, P.E.  
Acting Manager, Downstate Regulatory Programs

MLD:JMB:crw  
Enclosure

cc: U.S. Army Corps of Engineers, Rock Island District  
Village of Machesney Park (Chad Hunter)

|                   |     |                                   |                         |
|-------------------|-----|-----------------------------------|-------------------------|
| RECEIVED REGION 2 | D-2 | D-3                               |                         |
|                   |     |                                   | PROGRAM DEVELOPMENT     |
|                   |     |                                   | PROGRAM IMPLEMENTATION  |
|                   |     |                                   | OPERATIONS              |
|                   |     |                                   | ADMINISTRATIVE SERVICES |
|                   |     |                                   | LOCAL ROADS             |
| FEB 28 2011       |     |                                   |                         |
|                   |     | REGION ENGINEER                   |                         |
|                   |     | Confer with Region Engineer       |                         |
|                   |     | Correspondence for RE signature   |                         |
|                   |     | Correspondence for your signature |                         |



PERMIT NO. DS2011022  
DATE: February 24, 2011

**State of Illinois**  
**Department of Natural Resources, Office of Water Resources**

Permission is hereby granted to:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/REGION 2/DISTRICT 2  
819 DEPOT AVENUE  
DIXON, ILLINOIS 61021

to replace two culverts and perform channel modification of the North Branch of Willow Creek in the Northwest  $\frac{1}{4}$  of Section 20, Township 45 North, Range 2 East of the 3<sup>rd</sup> Principal Meridian in Winnebago County,

in accordance with an application dated August 21, 2009, and the plans and specifications entitled:

GENERAL PLAN, IL 173 OVER WILLOW CREEK TRIBUTARY (Sheet 1 of 6, Plotted 9/10/2010);  
GENERAL PLAN, N. 2<sup>ND</sup> FRONTAGE ROAD OVER WILLOW CREEK TRIBUTARY (Sheet 1 of 6, Plotted 9/10/2010);  
IL RTE 173 (2 Plan & Profile Sheets, Stations 2141+00 to 2171+00, submitted with application);  
ORLANDO ST (1 Plan & Profile Sheet, Stations 72+00 to 317+00, submitted with application);  
CHANNEL WALL DETAILS (1 Sheet, Plotted 9/15/2010); and  
IL RTE 173 CROSS SECTIONS (Sheet Nos. 280 – 284 of 323, Plotted 9/14/2010).

Examined and Recommended:

Michael L. Diedrichsen, Acting Manager  
Downstate Regulatory Programs

Approval Recommended:

Arlan R. Juhl, Acting Director  
Office of Water Resources

Approved:

Marc Miller, Director  
Department of Natural Resources

This PERMIT is subject to the terms and special conditions contained herein.

**PERMIT NO. DS2011022**

**THIS PERMIT IS SUBJECT TO THE FOLLOWING CONDITIONS:**

- 1) This permit is granted in accordance with the Rivers, Lakes and Streams Act "615 ILCS 5."
- 2) This permit does not convey title to the permittee or recognize title of the permittee to any submerged or other lands, and furthermore, does not convey, lease or provide any right or rights of occupancy or use of the public or private property on which the activity or any part thereof will be located, or otherwise grant to the permittee any right or interest in or to the property, whether the property is owned or possessed by the State of Illinois or by any private or public party or parties.
- 3) This permit does not release the permittee from liability for damage to persons or property resulting from the work covered by this permit, and does not authorize any injury to private property or invasion of private rights.
- 4) This permit does not relieve the permittee of the responsibility to obtain other federal, state or local authorizations required for the construction of the permitted activity; and if the permittee is required by law to obtain approvals from any federal or other state agency to do the work, this permit is not effective until the federal and state approvals are obtained.
- 5) The permittee shall, at the permittee's own expense, remove all temporary piling, cofferdams, false work, and material incidental to the construction of the project. If the permittee fails to remove such structures or materials, the Department may have removal made at the expense of the permittee.
- 6) In public waters, if future need for public navigation or other public interest by the state or federal government necessitates changes in any part of the structure or structures, such changes shall be made by and at the expense of the permittee or the permittee's successors as required by the Department or other properly constituted agency, within sixty (60) days from receipt of written notice of the necessity from the Department or other agency, unless a longer period of time is specifically authorized.
- 7) The execution and details of the work authorized shall be subject to the review and approval of the Department. Department personnel shall have the right of access to accomplish this purpose.
- 8) Starting work on the activity authorized will be considered full acceptance by the permittee of the terms and conditions of the permit.
- 9) The Department in issuing this permit has relied upon the statements and representations made by the permittee; if any substantive statement or representation made by the permittee is found to be false, this permit will be revoked; and when revoked, all rights of the permittee under the permit are voided.
- 10) In public waters, the permittee and the permittee's successors shall make no claim whatsoever to any interest in any accretions caused by the activity.
- 11) In issuing this permit, the Department does not ensure the adequacy of the design or structural strength of the structure or improvement.
- 12) Noncompliance with the conditions of this permit will be considered grounds for revocation.
- 13) If the construction activity permitted is not completed on or before December 31, 2014, this permit shall cease and be null and void.

404 PERMIT



REPLY TO  
ATTENTION OF

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

February 24, 2011

Operations Division

SUBJECT: CEMVR-OD-P-2010-1383

Mr. George Ryan  
Illinois Dept. of Transportation  
819 Depot Avenue  
Dixon, Illinois 61021

Dear Mr. Ryan:

|                   |     |                                   |                         |
|-------------------|-----|-----------------------------------|-------------------------|
| RECEIVED REGION 2 | D-2 | D-3                               | PROGRAM DEVELOPMENT     |
|                   |     |                                   | PROGRAM IMPLEMENTATION  |
|                   |     |                                   | OPERATIONS              |
|                   |     |                                   | ADMINISTRATIVE SERVICES |
|                   |     |                                   | LOCAL ROADS             |
| FEB 28 2011       |     |                                   |                         |
|                   |     | REGION ENGINEER                   |                         |
|                   |     | Confer with Region Engineer       |                         |
|                   |     | Correspondence for RE signature   |                         |
|                   |     | Correspondence for your signature |                         |

Our office reviewed your application dated 11/25/10, together with additional information dated 1/26/11, concerning the proposed replacement of two existing box culverts and the extension of another in the North Branch of Willow Creek. In addition, approximately 750 feet of the channel along IL173 is to be reconstructed and moved to the north due to the roadway being widened. This work will be conducted in Section 20, Township 45 North, Range 2 East, Winnebago County, Illinois.

The State of Illinois has not issued state water quality certification under Section 401 of the Clean Water Act for the nationwide permit as described under Item 23 of the enclosed Fact Sheet No. 6 (IL). This is the nationwide permit under which your activity will be covered after you obtain either water quality certification or waiver from the Illinois Environmental Protection Agency (IEPA) for your project. The decision regarding this action is based on information found in the administrative record, which documents the District's decision-making process, the basis for the decision, and the final decision.

If you discover any previously unknown historic or archaeological remains while accomplishing the activity authorized by this permit, you must immediately stop any land disturbance activities and notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

You must comply with any additional IEPA water quality certification conditions and furnish us a copy of IEPA's certification. If IEPA has not responded to you within 60 days from the date of this letter, the Section 401 water quality certification requirement will be considered waived for your project.

The Corps has also made a determination of no impact on federally threatened and endangered species. We based this determination on the information furnished us.

This verification is valid until March 19, 2012, unless the nationwide permit is modified, reissued or revoked. It is your responsibility to remain informed of changes to the nationwide permit program. We will issue a public notice announcing any changes if and when they occur. Furthermore, if you commence or are under contract to commence this activity before the date the nationwide permit is modified or revoked, you will have twelve months from this date to complete your activity under the present terms and conditions of this nationwide permit.

-2-

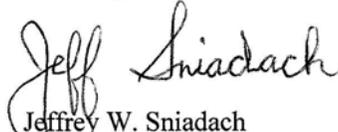
Our office has completed a Preliminary Jurisdictional Determination concerning your project area. A Preliminary Jurisdictional Determination is not appealable.

You are required to complete and return the enclosed "Completed Work Certification" upon completion of your project, in accordance with General Condition No. 14 of the enclosed Fact Sheet.

The Rock Island District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, please take a moment to complete the attached postcard and return it or go to our Customer Service Survey found on our web site at <http://per2.nwp.usace.army.mil/survey.html>. (Be sure to select "Rock Island District" under the area entitled: Which Corps office did you deal with?)

Should you have any questions, please contact our Regulatory Branch by letter, or telephone me at 309/794-5369.

Sincerely,

  
Jeffrey W. Sniadach  
Project Manager  
Enforcement Section

Enclosures

Copies Furnished: (w/o enclosures)

Mr. Mike Diedrichsen, P.E.  
Office of Water Resources  
IL Department of Natural Resources  
One Natural Resources Way  
Springfield, Illinois 62701-1271

Mr. Dan Heacock  
Illinois Environmental Protection Agency  
Watershed Management Section,  
Permit Sec. 15  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62754

Mr. Peter J. Frantz/Ms. Kathy Ames  
Bureau of Location and Environment  
Illinois Department of Transportation  
Division of Highways  
2300 South Dirksen Parkway  
Springfield, Illinois 62754

## NATIONWIDE PERMITS AND CONDITIONS

The following information presents the requirements for nationwide Section 404/10 permits most often used on highway projects. The information in this guidance reflects the requirements associated with the nationwide permits that were published in the March 12, 2007 *Federal Register*.

**Permittees wishing to conduct activities under the nationwide permits must comply with the terms of the applicable permit and the conditions in Section C of this document.**

### B. Nationwide Permits

3. Maintenance. (a) The repair, rehabilitation, or replacement of any previously authorized, currently serviceable, structure, or fill, or of any currently serviceable structure or fill authorized by 33 CFR 330.3, provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modification. Minor deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, or current construction codes or safety standards that are necessary to make the repair, rehabilitation, or replacement are authorized. This NWP authorizes the repair, rehabilitation, or replacement of those structures or fills destroyed or damaged by storms, floods, fire or other discrete events, provided the repair, rehabilitation, or replacement is commenced, or is under contract to commence, within two years of the date of their destruction or damage. In cases of catastrophic events, such as hurricanes or tornadoes, this two-year limit may be waived by the district engineer, provided the permittee can demonstrate funding, contract, or other similar delays.

(b) This NWP also authorizes the removal of accumulated sediments and debris in the vicinity of and within existing structures (e.g., bridges, culverted road crossings, water intake structures, etc.) and the placement of new or additional riprap to protect the structure. The removal of sediment is limited to the minimum necessary to restore the waterway in the immediate vicinity of the structure to the approximate dimensions that existed when the structure was built, but cannot extend further than 200 feet in any direction from the structure. This 200 foot limit does not apply to maintenance dredging to remove accumulated sediments blocking or restricting outfall and intake structures or to maintenance dredging to remove accumulated sediments from canals associated with outfall and intake structures. All dredged or excavated materials must be deposited and retained in an upland area unless otherwise specifically approved by the district engineer under separate authorization. The placement of riprap must be the minimum necessary to protect the structure or to ensure the safety of the structure. Any bank stabilization measures not directly associated with the structure will require a separate authorization from the district engineer.

(c) This NWP also authorizes temporary structures, fills, and work necessary to conduct the maintenance activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

(d) This NWP does not authorize maintenance dredging for the primary purpose of navigation or beach restoration. This NWP does not authorize new stream channelization or stream relocation projects.

Notification: For activities authorized by paragraph (b) of this NWP, the permittee must submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 27). Where maintenance dredging is proposed, the pre-construction notification must include information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals. (Sections 10 and 404)

Note: This NWP authorizes the repair, rehabilitation, or replacement of any previously authorized structure or fill that does not qualify for the Clean Water Act Section 404(f) exemption for maintenance.

13. Bank Stabilization. Bank stabilization activities necessary for erosion prevention, provided the activity meets all of the following criteria:

- (a) No material is placed in excess of the minimum needed for erosion protection;
- (b) The activity is no more than 500 feet in length along the bank, unless this criterion is waived in writing by the district engineer;
- (c) The activity will not exceed an average of one cubic yard per running foot placed along the bank below the plane of the ordinary high water mark or the high tide line, unless this criterion is waived in writing by the district engineer;
- (d) The activity does not involve discharges of dredged or fill material into special aquatic sites, unless this criterion is waived in writing by the district engineer;
- (e) No material is of the type, or is placed in any location, or in any manner, to impair surface water flow into or out of any water of the United States;
- (f) No material is placed in a manner that will be eroded by normal or expected high flows (properly anchored trees and treetops may be used in low energy areas); and,
- (g) The activity is not a stream channelization activity.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if the bank stabilization activity: (1) involves discharges into special aquatic sites; (2) is in excess of 500 feet in length; or (3) will involve the discharge of greater than an average of one cubic yard per running foot along the bank below the plane of the ordinary high water mark or the high tide line. (See general condition 27.) (Sections 10 and 404)

14. Linear Transportation Projects. Activities required for the construction, expansion, modification, or improvement of linear transportation projects (e.g., roads, highways, railways, trails, airport runways, and taxiways) in waters of the United States. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than 1/2-acre of waters of the United States. For linear transportation projects in tidal waters, the discharge cannot cause the loss of greater than 1/3-acre of waters of the United States. Any stream channel modification, including bank stabilization, is limited to the minimum necessary to construct or protect the linear transportation project; such modifications must be in the immediate vicinity of the project.

This NWP also authorizes temporary structures, fills, and work necessary to construct the linear transportation project.

Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

This NWP cannot be used to authorize non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, train stations, or aircraft hangars.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if: (1) the loss of waters of the United States exceeds 1/10 acre; or (2) there is a discharge in a special aquatic site, including wetlands. (See general condition 27.) (Sections 10 and 404)

Note: Some discharges for the construction of farm roads or forest roads, or temporary roads for moving mining equipment, may qualify for an exemption under Section 404(f) of the Clean Water Act (see 33 CFR 323.4).

23. Approved Categorical Exclusions. Activities undertaken, assisted, authorized, regulated, funded, or financed, in whole or in part, by another Federal agency or department where:

(a) That agency or department has determined, pursuant to the Council on Environmental Quality's implementing regulations for the National Environmental Policy Act (40 CFR part 1500 et seq.), that the activity is categorically excluded from environmental documentation, because it is included within a category of actions which neither individually nor cumulatively have a significant effect on the human environment; and

(b) The Office of the Chief of Engineers (Attn: CECW-CO) has concurred with that agency's or department's determination that the activity is categorically excluded and approved the activity for authorization under NWP 23.

The Office of the Chief of Engineers may require additional conditions, including pre-construction notification, for authorization of an agency's categorical exclusions under this NWP.

Notification: Certain categorical exclusions approved for authorization under this NWP require the permittee to submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 27). The activities that require pre-construction notification are listed in the appropriate Regulatory Guidance Letters. (Sections 10 and 404)

Note: The agency or department may submit an application for an activity believed to be categorically excluded to the Office of the Chief of Engineers (Attn: CECW-CO). Prior to approval for authorization under this NWP of any agency's activity, the Office of the Chief of Engineers will solicit public comment. As of the date of issuance of this NWP, agencies with approved categorical exclusions are the: Bureau of Reclamation, Federal Highway Administration, and U.S. Coast Guard. Activities approved for authorization under this NWP as of the date of this notice are found in Corps Regulatory Guidance Letter 05-07, which is available at: <http://www.usace.army.mil/inet/functions/cw/cecwo/reg/rglsindx.htm> .

Any future approved categorical exclusions will be announced in Regulatory Guidance Letters and posted on this same web site.

33. Temporary Construction, Access, and Dewatering. Temporary structures, work, and discharges, including cofferdams, necessary for construction activities or access fills or dewatering of construction sites, provided that the associated primary activity is authorized by the Corps of Engineers or the U.S. Coast Guard. This NWP also authorizes temporary structures, work, and discharges, including cofferdams, necessary for construction activities not otherwise subject to the Corps or U.S. Coast Guard permit requirements. Appropriate measures must be taken to maintain near normal downstream flows and to minimize flooding. Fill must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. The use of dredged material may be allowed if the district engineer determines that it will not cause more than minimal adverse effects on aquatic resources. Following completion of construction, temporary fill must be entirely removed to upland areas, dredged material must be returned to its original location, and the affected areas must be restored to pre-construction elevations. The affected areas must also be revegetated, as appropriate. This permit does not authorize the use of cofferdams to dewater wetlands or other aquatic areas to change their use. Structures left in place after construction is completed require a section 10 permit if located in navigable waters of the United States. (See 33 CFR part 322.)

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 27). The pre-construction notification must include a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre-project conditions. (Sections 10 and 404)

### **C. Nationwide Permit General Conditions**

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as appropriate, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States.

No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. Culverts placed in streams must be installed to maintain low flow conditions.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4 and 48.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety.

15. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency in the area (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

16. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

17. Endangered Species. (a) No activity is authorized under any NWP which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements.

(c) Non-federal permittees shall notify the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that may be affected by the proposed work or that utilize the designated critical habitat that may be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs.

(e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, both lethal and non-lethal "takes" of protected species are in violation of the ESA.

Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world-wide Web pages at <http://www.fws.gov/> and <http://www.noaa.gov/fisheries.html> respectively.

18. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, explaining the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

19. Designated Critical Resource Waters. Critical resource waters include, NOAA-designated marine sanctuaries, National Estuarine Research Reserves, state natural heritage sites, and outstanding national resource waters or other waters officially designated by a state as having particular environmental or ecological significance and identified by the district engineer after notice and opportunity for public comment. The district engineer may also designate additional critical resource waters after notice and opportunity for comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWP's 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, and 50 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWP's 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 27, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWP's only after it is determined that the impacts to the critical resource waters will be no more than minimal.

20. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10 acre and require pre-construction notification, unless the district engineer determines in writing that some other form of mitigation would be more environmentally appropriate and provides a project-specific waiver of this requirement. For wetland losses of 1/10 acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream restoration, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWP's. For example, if an NWP has an acreage limit of 1/2 acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2 acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWP's.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns.

Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee arrangements or separate activity-specific compensatory mitigation. In all cases, the mitigation provisions will specify the party responsible for accomplishing and/or complying with the mitigation plan.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

21. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

22. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

23. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

24. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

25. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature: "When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property."

To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

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(Transferee)

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(Date)

26. Compliance Certification. Each permittee who received an NWP verification from the Corps must submit a signed certification regarding the completed work and any required mitigation. The certification form must be forwarded by the Corps with the NWP verification letter and will include:

- (a) A statement that the authorized work was done in accordance with the NWP authorization, including any general or specific conditions;
- (b) A statement that any required mitigation was completed in accordance with the permit conditions; and
- (c) The signature of the permittee certifying the completion of the work and mitigation.

27. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, as a general rule, will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

- (1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or
- (2) Forty-five calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 17 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 18 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that is “no effect” on listed species or “no potential to cause effects” on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) is completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee cannot begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;  
(2) Location of the proposed project;  
(3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided result in a quicker decision.);

(4) The PCN must include a delineation of special aquatic sites and other waters of the United States on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters of the United States, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, where appropriate;

(5) If the proposed activity will result in the loss of greater than 1/10 acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and

(7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination:

(1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

(2) For all NWP 48 activities requiring pre-construction notification and for other NWP activities requiring pre-construction notification to the district engineer that result in the loss of greater than 1/2-acre of waters of the United States, the district engineer will immediately provide (e.g., via facsimile transmission, overnight mail, or other expeditious manner) a copy of the PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS).

With the exception of NWP 37, these agencies will then have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame, but will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(4) Applicants are encouraged to provide the Corps multiple copies of pre-construction notifications to expedite agency coordination.

(5) For NWP 48 activities that require reporting, the district engineer will provide a copy of each report within 10 calendar days of receipt to the appropriate regional office of the NMFS.

(e) District Engineer's Decision: In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If the proposed activity requires a PCN and will result in a loss of greater than 1/10 acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for projects with smaller impacts. The district engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed work are minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the district engineer will notify the permittee and include any conditions the district engineer deems necessary. The district engineer must approve any compensatory mitigation proposal before the permittee commences work. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the district engineer to be minimal, the district engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP.

If the district engineer determines that the adverse effects of the proposed work are more than minimal, then the district engineer will notify the applicant either: (1) That the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit;

(2) that the project is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level; or (3) that the project is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period. The authorization will include the necessary conceptual or specific mitigation or a requirement that the applicant submit a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level. When mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan.

28. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

STORM WATER POLLUTION PREVENTION PLAN



Storm Water Pollution Prevention Plan

|         |                  |              |                    |
|---------|------------------|--------------|--------------------|
| Route   | <u>FAP 303</u>   | Marked Rte.  | <u>IL 173</u>      |
| Section | <u>129K-1</u>    | Project No.  | <u>C-92-162-10</u> |
| County  | <u>Winnebago</u> | Contract No. | <u>64987</u>       |

This plan has been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

|  |                        |
|--|------------------------|
| <u>Eric S. Therkildsen</u><br>Print Name           |                        |
| <u>Acting Deputy Director of Highways</u><br>Title | <u>1/20/11</u><br>Date |
| <u>Region Two Engineer - IDOT</u><br>Agency        |                        |

I. Site Description:

A. Provide a description of the project location (include latitude and longitude):

Approximately 0.78 mile of IL 173 and 0.296 mile of IL 251 in Machesney Park, Winnebago County, Illinois. Sections 17, 18, 19 and 20 of Harlem Township. Latitude: 42 degrees and 21 minutes N. Longitude: 89 degrees and 1 minute W.

B. Provide a description of the construction activity which is the subject of this plan:

Construction activities include the widening and reconstruction of IL 173 and IL 251 in aforementioned locations complete with concrete curb and gutter, concrete medians, sidestreet and driveway upgrades, pavement markings and all necessary landscaping to complete the project as shown in the plans. Additional activities include the relocation of Willow Creek, which includes replacement of the retaining walls and culverts, drainage improvements and traffic signal installation and modernization.

C. Provide the estimated duration of this project:

14 working months with a 4 month winter shut down for a total of 18 months.

D. The total area of the construction site is estimated to be 31.8 acres.

The total area of the site estimated to be disturbed by excavation, grading or other activities is 16.6 acres.

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

After construction is completed the weighted average of the runoff coefficient is 0.60.

F. List all soils found within project boundaries. Include map unit name, slope information, and erosivity:

Warsaw Loam (290A), 0-2 % slopes  
Hononegah Loamy Course Sand (354A), 0-2% slopes  
Urban Land (533)  
Kishwaukee Silt Loam (623A), 0-2% slopes  
Flagler Sandy Loam (783A), 0-2% slopes

- G. Identify any hydric soils onsite, and provide an estimate of the number of acres that will likely be disturbed:  
There are no hydric soils within the limits of the project.
- H. Provide a description of potentially erosive areas associated with this project:  
No slope stability problems are anticipated due to the absence of any significant cuts or fills.
- I. The following is a description of soil disturbing activities by stages, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):  
Pre-stage general construction: Remove islands, medians, curb and gutter, and replace with temporary pavement. Place temporary pavement along IL 251 and other cross streets. Construct temporary intersection and left turn lane from SB IL 251 at Melbourne Avenue. Construct temporary median crossover at north and south IL 251 section limits.  
Pre-stage 1: Extend existing culvert under IL 173 to the north to allow for temporary pavement. Construct south portion of new culvert under IL 173. Install temporary pavement as required for pre-stage 2. Construct temporary drainage appurtenances as required for temporary pavement construction.  
Pre-stage 2: Construct north portion of proposed IL 173 culvert, culvert under N. 2nd Frontage Road, channel walls between culverts, and proposed storm sewers in proximity to the walls. During pre-stage 2, the channel flow will be diverted into an existing pit located behind commercial development ("Home Depot"). Install temporary pavement as required for pre-stage 3. Construct temporary drainage appurtenances as required for temporary pavement construction.  
Pre-stage 3: Remove the south portion of the existing culvert under IL 173. Construct temporary drainage appurtenances as required for temporary pavement construction.  
Stage 1 general construction: Construct east extension for culvert under IL 251, north side of IL 173, new western portion of N. 2nd Street, east side of Orlando Street and Alpine Road, eastside and intersection of N. 2nd Frontage Road. Finalize channel and related retaining walls construction, between N. 2nd Frontage Road and Alpine Road. Construct associated proposed storm sewers.  
Stage 1A: Construct proposed culvert extension at IL 251 south of IL 173, and complete this portion of temporary pavement. Perform island removal and temporary paving at remaining intersections. Construct the NE quadrant of the IL 173/IL 251, NE quadrant of IL 173 at Alpine Road, east half of N. 2nd Frontage Road, east half of Alpine Road excluding median, place temporary pavement instead. Install temporary and permanent drainage items as required.  
Stage 1B: Begin constructing the NW quadrant of IL 173 at IL 251. Construct the west half of the intersection of N. 2nd Frontage Road and IL 173. Install temporary and permanent drainage items as required.  
Stage 1C: Complete construction of the NW quadrant of IL 251. Construct the NW quadrant of the intersection of IL 173 at Alpine Road. Complete all stage 1 general construction. All temporary pavement shall be placed for use during stage 2. Install temporary and permanent drainage items as required.  
Stage 2A: Construct the south side of IL 173, west portion of N. 2nd Street. Reconstruction of the Smythe Avenue intersection and Banyan Drive construction shall be staggered during this stage in order to maintain constant access to the Frontage Road south of IL 173. Construct the SW quadrant of IL 173 at IL 251, west side of Orlando Street, Alpine Road and N. 2nd Frontage Road. All related storm sewer construction shall be done. Install temporary pavement required for stage 2B. Install temporary and permanent drainage items as required.  
Stage 2B through 3: Construct the intersections and remaining sections of the side roads with multiple stages and sub stages. Remove north crossover temporary pavement from IL 251 (during stage 2C). Install temporary and permanent drainage items as required.  
Stage 4A and 4B: Remove south crossover temporary pavement from IL 251 (during stage 4A). Complete tapers along IL 173 between Orlando Street and Alpine Road, along Orlando Street south of IL 173, along Alpine Road. North Alpine Road milling and resurfacing shall be performed. Remove temporary pavement and finish construction of the center medians on IL 173. Remove SB IL 251 left turn lane at Melbourne Avenue and reconstruct island. All landscaping and miscellaneous work shall be performed. Finalize permanent drainage items as required.
- J. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands) and locations where storm water is discharged to surface water including wetlands.

- K. Identify who owns the drainage system (municipality or agency) this project will drain into:

The receiving drainage system is the "Unnamed Tributary to Willow Creek" which is owned and maintained by Winnebago County immediately downstream.

- L. The following is a list of receiving water(s) and the ultimate receiving water(s), and aerial extent of wetland acreage at the site. The location of the receiving waters can be found on the erosion and sediment control plans:

Receiving waters: Unnamed Tributary to Willow Creek  
Ultimate Receiving Water: Rock River

- M. Describe areas of the site that are to be protected or remain undisturbed. These areas may include steep slopes, highly erodible soils, streams, stream buffers, specimen trees, natural vegetation, nature preserves, etc.

There are no protected areas within the project limits. There are some trees to be protected as indicated on the plans.

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

- Floodplain
- Wetland Riparian
- Threatened and Endangered Species
- Historic Preservation
- 303(d) Listed Receiving Waters
- Receiving Waters with Total Maximum Daily Load (TMDL)
- Applicable Federal, Tribal, State or Local Programs
- Other

1. 303(d) Listed Receiving Waters (fill out this section if checked above):

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

b. A description of how Erosion and Sediment Control Practices will prevent a discharge of sediment resulting from a storm event equal to or greater than a 25-year, 24-hour rainfall event, if the receiving water is listed as impaired for sediment or a parameter that addresses sediment (such as total suspended solids, turbidity, or siltation):

c. If pollutants other than sediment are identified as causing the impairment, provide a description of how Pollution Prevention BMPs will be incorporated into the site design to prevent their discharge.

d. Provide a description of the location(s) of direct discharge from the project site to the 303(d) water body:

e. Provide a description of the location(s) of any dewatering discharges to the MS4 and/or water body:

2. TMDL (fill out this section if checked above)

a. The name(s) of the listed water body:

b. Provide a description of the Erosion and Sediment Control strategy that will be incorporated into the site design that is consistent with the assumptions and requirements of the TMDL:

c. If a specific numeric waste load allocation has been established that would apply to the project's discharges, provide a description of the necessary steps to meet that allocation:

O. The following pollutants of concern will be associated with this construction project:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Soil Sediment             | <input checked="" type="checkbox"/> Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids) |
| <input checked="" type="checkbox"/> Concrete                  | <input checked="" type="checkbox"/> Antifreeze / Coolants  |
| <input checked="" type="checkbox"/> Concrete Truck Waste      | <input checked="" type="checkbox"/> Waste water from cleaning construction equipment               |
| <input checked="" type="checkbox"/> Concrete Curing Compounds | <input type="checkbox"/> Other (specify)   |
| <input checked="" type="checkbox"/> Solid Waste Debris        | <input type="checkbox"/> Other (specify)   |
| <input checked="" type="checkbox"/> Paints                    | <input type="checkbox"/> Other (specify)   |
| <input type="checkbox"/> Solvents                             | <input type="checkbox"/> Other (specify)   |
| <input type="checkbox"/> Fertilizers / Pesticides             | <input type="checkbox"/> Other (specify)   |

II. Controls:

This section of the plan addresses the controls that will be implemented for each of the major construction activities described in I.C. above and for all use areas, borrow sites, and waste sites. For each measure discussed, the contractor will be responsible for its implementation as indicated. The contractor shall provide to the Resident Engineer a plan for the implementation of the measures indicated. The contractor, and subcontractors, will notify the Resident Engineer of any proposed changes, maintenance, or modifications to keep construction activities compliant with the permit. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan:

A. Erosion and Sediment Controls

1. **Stabilized Practices:** Provided below is a description of interim and permanent stabilization practices, including site specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in II(A)(1)(a) and II(A)(3), stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceases on all disturbed portions of the site where construction will not occur for a period of 14 or more calendar days.

Where the initiation of stabilization measures by the 7<sup>th</sup> day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

The following Stabilization Practices will be used for this project:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Preservation of Mature Vegetation | <input checked="" type="checkbox"/> Erosion Control Blanket / Mulching |
| <input type="checkbox"/> Vegetated Buffer Strips                      | <input checked="" type="checkbox"/> Sodding                            |
| <input checked="" type="checkbox"/> Protection of Trees               | <input checked="" type="checkbox"/> Geotextiles                        |
| <input checked="" type="checkbox"/> Temporary Erosion Control Seeding | <input type="checkbox"/> Other (specify)                               |
| <input type="checkbox"/> Temporary Turf (Seeding, Class 7)            | <input type="checkbox"/> Other (specify)                               |
| <input type="checkbox"/> Temporary Mulching                           | <input type="checkbox"/> Other (specify)                               |
| <input checked="" type="checkbox"/> Permanent Seeding                 | <input type="checkbox"/> Other (specify)                               |

Describe how the Stabilization Practices listed above will be utilized during construction:

Stabilization practices at the beginning of construction:

The area between the proposed right-of-way boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area. Reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:

- (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal, and other activities which would be detrimental to their maintenance and development.
- (b) Bare and sparsely vegetated ground in highly erodible areas as determined by the engineer shall be temporarily seeded at the beginning of construction where no construction activities are expected within seven days.

(c) Immediately after tree removal is completed in certain areas, which are highly erodible areas as determined by the engineer; these areas shall be temporarily seeded where no construction activities are expected within seven days.

Stabilization practices during construction:

During roadway construction, areas outside the construction limits as outlined previously herein shall be protected from damaging effects of construction. The contractor shall not use this area for staging (except as designated on the plans or directed by the engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.

(a) As earth excavation and embankment are being completed, the contractor shall place erosion control blanket and seeding as stages of the project are completed. Seeding shall be completed as specified in the erosion control/seeding mobilization and temporary seeding special provision.

(b) Within the construction zone, critical areas which have high flows of water as determined by the engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.

(c) Earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.

(d) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded if no construction activity in the area is planned for seven days.

(e) The temporary erosion control system shall be removed as directed by the engineer after it is no longer needed or no longer functioning. The cost of this removal shall be included in the unit price for the temporary erosion control system. No additional compensation will be allowed.

Describe how the Stabilization Practices listed above will be utilized after construction activities have been completed:

After the completion of construction activities, all disturbed areas will be permanently stabilized and seeded/sodded.

2. **Structural Practices:** Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The following Structural Practices will be used for this project:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Perimeter Erosion Barrier    | <input type="checkbox"/> Rock Outlet Protection                     |
| <input checked="" type="checkbox"/> Temporary Ditch Check        | <input checked="" type="checkbox"/> Riprap                          |
| <input checked="" type="checkbox"/> Storm Drain Inlet Protection | <input type="checkbox"/> Gabions                                    |
| <input type="checkbox"/> Sediment Trap                           | <input type="checkbox"/> Slope Mattress                             |
| <input type="checkbox"/> Temporary Pipe Slope Drain              | <input checked="" type="checkbox"/> Retaining Walls                 |
| <input type="checkbox"/> Temporary Sediment Basin                | <input type="checkbox"/> Slope Walls                                |
| <input type="checkbox"/> Temporary Stream Crossing               | <input type="checkbox"/> Concrete Revetment Mats                    |
| <input type="checkbox"/> Stabilized Construction Exits           | <input type="checkbox"/> Level Spreaders                            |
| <input checked="" type="checkbox"/> Turf Reinforcement Mats      | <input checked="" type="checkbox"/> Articulated Block Revetment Mat |
| <input type="checkbox"/> Permanent Check Dams                    | <input type="checkbox"/> Other (specify)                            |
| <input type="checkbox"/> Permanent Sediment Basin                | <input type="checkbox"/> Other (specify)                            |
| <input type="checkbox"/> Aggregate Ditch                         | <input type="checkbox"/> Other (specify)                            |
| <input type="checkbox"/> Paved Ditch                             | <input type="checkbox"/> Other (specify)                            |

Describe how the Structural Practices listed above will be utilized during construction:

Stabilization practices at the beginning of construction:

The area between the proposed right-of-way boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area. Treatment will include reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:

(a) Perimeter erosion control and other erosion control measures shall be placed prior to beginning earthwork.

(b) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), temporary ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right of way line.

- (c) Temporary ditch checks shall be placed at all existing ditches, at every 1 ft. drop in elevation.
- (d) All existing inlets and pipes within limits of construction, or that shall receive runoff from disturbed areas, shall be protected as shown on the plans and as directed by the engineer.

Stabilization practices during construction:

During roadway construction, areas outside the construction limits as outlined previously herein shall be protected from damaging effects of construction. The contractor shall not use this area for staging (except as designated on the plans or directed by the engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.

- (a) As earth excavation and embankment are being completed, the contractor shall place ditch checks as stages of the project are completed.

- (b) Perimeter erosion barrier will be installed at additional locations as the project progresses. Proposed inlets and pipes shall be protected immediately after construction.

- (c) As the contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps and as directed by the engineer:

- I. Place temporary erosion control systems at locations where water leaves and returns from the construction zone.
- II. Temporary seed highly erodible areas outside the construction slope limits.
- III. Construct ditches and provide temporary erosion control systems.
- IV. Continue building up the embankment to the proposed grade while at the same time placing permanent erosion control such as riprap ditch lining and conduct final shaping to the slopes.

- (d) The temporary erosion control system shall be removed as directed by the engineer after it is no longer needed or no longer functioning. The cost of this removal shall be included in the unit price for the temporary erosion control system. No additional compensation will be allowed.

Describe how the Structural Practices listed above will be utilized after construction activities have been completed:

All outlets will be protected with riprap to ensure continued stabilization. Turf reinforcement mats and articulated block revetment mats will be used in the channel for permanent stabilization.

- 3. **Storm Water Management:** Provided below is a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

- a. Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).

The practices selected for implementation were determined on the basis of the technical guidance in Chapter 41 (Construction Site Storm Water Pollution Control) of the Illinois Department of Transportation Bureau of Design and Environment Manual. If practices other than those discussed in Chapter 41 are selected for implementation or if practices are applied to situations different from those covered in Chapter 41, the technical basis for such decisions will be explained below.

- b. Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

Description of Storm Water Management Controls:

The existing basin at the northwest corner of IL 173 and IL 251 will be regraded and maintained in the proposed condition. Riprap will be utilized at all outlet locations for velocity dissipation. A new storm sewer system will be installed throughout.

4. **Approved State or Local Laws:** The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI, to be authorized to discharge under permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials:

Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded.

5. **Contractor Required Submittals**

- a. Contractor is to provide a Construction Schedule containing an adequate level of detail to show major activities with implementation of Pollution Prevention BMPs, including the following items:
- Approximate duration of the project, including each stage of the project
  - Rainy season, dry season, and winter shutdown dates
  - Temporary stabilization measures to be employed by contract phases
  - Mobilization timeframe
  - Mass clearing and grubbing/roadside clearing dates
  - Deployment of Erosion Control Practices
  - Deployment of Sediment Control Practices (including stabilized construction entrances/exits)
  - Deployment of Construction Site Management Practices (including concrete washout facilities, chemical storage, refueling locations, etc.)
  - Paving, saw-cutting, and any other pavement related operations
  - Major planned stockpiling operations
  - Timeframe for other significant long-term operations or activities that may plan non-storm water discharges such as dewatering, grinding, etc.
  - Permanent stabilization activities for each area of the project
- b. Contractor is to provide a discussion of how they will comply with the requirements of the permit in regard to the following items and provide a graphical representation showing location and type of BMPs to be used when applicable:
- Vehicle Entrances and Exits – Identify type and location of stabilized construction entrances and exits to be used and how they will be maintained.
  - Material Delivery, Storage and Use – Discuss where and how materials including chemicals, concrete curing compounds, petroleum products, etc. will be stored for this project.
  - Stockpile Management – Discuss what BMPs will be used to prevent pollution of storm water from stockpiles.
  - Waste Disposal – Discuss methods of waste disposal that will be used for this project.
  - Spill Prevention and Control – Discuss steps that will be taken in the event of a material spill (chemicals, concrete curing compounds, petroleum, etc.)
  - Concrete Residuals and Washout Wastes – Discuss the location and type of concrete washout facilities to be used on this project and how they will be signed and maintained.
  - Litter Management – Discuss how litter will be maintained for this project (education of employees, number of dumpsters, frequency of dumpster pick-up, etc.).
  - Vehicle and Equipment Fueling – Identify equipment fueling locations for this project and what BMPs will be used to ensure containment and spill prevention.
  - Vehicle and Equipment Cleaning and Maintenance – Identify where equipment cleaning and maintenance locations for this project and what BMPs will be used to ensure containment and spill prevention.

III. **Maintenance:**

The Resident Engineer will provide maintenance guides to the contractor for the practices associated with this project. The following additional procedures will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective measures identified in this plan.

**IV. Inspections:**

Qualified personnel shall inspect disturbed areas of the construction site which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site using the Department's Storm Water Pollution Prevention Plan Erosion Control Inspection Report (BC 2259). Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inch or greater or equivalent snowfall.

If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer shall notify the appropriate IEPA Field Operations Section office by email at: [epa.swnoncomp@illinois.gov](mailto:epa.swnoncomp@illinois.gov), telephone or fax within 24 hours of the incident. The Resident Engineer shall then complete and submit an "Incidence of Noncompliance" (ION) report for the identified violation within 5 days of the incident. The Resident Engineer shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.

The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Attn: Compliance Assurance Section  
1021 North Grand East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

**V. Failure to Comply:**

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



**Contractor Certification Statement**

The Resident Engineer is to make copies of this form and every contractor and sub-contractor will be required to complete their own separate form.

|         |                  |              |                    |
|---------|------------------|--------------|--------------------|
| Route   | <u>FAP 303</u>   | Marked Rte.  | <u>IL 173</u>      |
| Section | <u>129K-1</u>    | Project No.  | <u>C-92-162-10</u> |
| County  | <u>Winnebago</u> | Contract No. | <u>64987</u>       |

This certification statement is part of the Storm Water Pollution Prevention Plan for the project described above, in accordance with General NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency.

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

In addition, I have read and understand all of the information and requirements stated in the Storm Water Pollution Prevention Plan for the above mentioned project; I have received copies of all appropriate maintenance procedures; and, I have provided all documentation required to be in compliance with the ILR10 and Storm Water Pollution Prevention Plan and will provide timely updates to these documents as necessary.

- Contractor
- Sub-Contractor

|                |                |
|----------------|----------------|
| _____          | _____          |
| Print Name     | Signature      |
| _____          | _____          |
| Title          | Date           |
| _____          | _____          |
| Name of Firm   | Telephone      |
| _____          | _____          |
| Street Address | City/State/ZIP |

**REQUIRED CONTRACT PROVISIONS  
FEDERAL-AID CONSTRUCTION CONTRACTS**

|  | Page |
|--|------|
| I. General .....   | 1    |
| II. Nondiscrimination .....  | 1    |
| III. Nonsegregated Facilities .....  | 3    |
| IV. Payment of Predetermined Minimum Wage.....   | 3    |
| V. Statements and Payrolls .....   | 5    |
| VI. Record of Materials, Supplies, and Labor.....  | 6    |
| VII. Subletting or Assigning the Contract.....   | 6    |
| VIII. Safety: Accident Prevention .....  | 7    |
| IX. False Statements Concerning Highway Projects.....  | 7    |
| X. Implementation of Clean Air Act and Federal<br>Water Pollution Control Act .....                | 7    |
| XI. Certification Regarding Debarment, Suspension,<br>Ineligibility, and Voluntary Exclusion ..... | 8    |
| XII. Certification Regarding Use of Contract Funds for<br>Lobbying .....                           | 9    |

**ATTACHMENTS**

**A. Employment Preference for Appalachian Contracts  
(included in Appalachian contracts only)**

**I. GENERAL**

1. 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.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

- Section I, paragraph 2;
- Section IV, paragraphs 1, 2, 3, 4 and 7;
- Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 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 DOL, or the contractor's employees or their representatives.

6. Selection of Labor: During the performance of this contract, the contractor shall not:

- a. Discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

- b. Employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

**II. NONDISCRIMINATION**

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

**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 and 41 CFR 60 (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 Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American 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 State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.
- b. The contractor will accept as his 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, preapprenticeship, and/or on-the-job-training."

**2. EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for an must be capable of effectively administering and promoting an active contractor program of EEO 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 minority group employees.
- 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 minority groups 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 employees referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish which such identified sources procedures whereby minority group 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, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group 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 his 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 his avenues of appeal.

#### **6. Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

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. Where feasible, 25 percent of apprentices or trainees in each occupation shall be

in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

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 minority group and women employees 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 his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. 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 best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best 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 SHA 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 minority and women 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 quailifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) 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 SHA.

**8. 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.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees.

Contractors shall obtain lists of DBE construction firms from SHA

personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

**9. 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 completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority 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;

(3) The progress and efforts being made in locating, hiring, training,

qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of

DBE subcontractors or subcontractors with meaningful minority and

female representation among their employees.

b. The contractors will submit an annual report to the SHA 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. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

### III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

### IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located

on roadways classified as local roads or rural minor collectors, which are exempt.)

#### 1. General:

a. All mechanics and laborers 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 (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) 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. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, 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 paragraphs 4 and 5 of this Section IV.

b. 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.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

#### 2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification 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 DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour 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.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional 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 question, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advised the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

### 3. Payment of Fringe Benefits:

a. 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 or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any cost 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.

### 4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

#### a. Apprentices:

(1) 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 DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/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 Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees 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

employee 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 listed in 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 or subcontractor 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-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) 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 journeyman-level 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 for the Wage

and Hour Division determines that a different practice prevails for

the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

#### b. Trainees:

(1) 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 DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. 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.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level 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-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which cases such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration

withdraws approval of a training program, the contractor or subcontractor 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. Helpers:**

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV. 2. Any worker listed on a payroll at a helper wage rate, who is not a helper under a approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

**5. 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.

**6. Withholding:**

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor 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, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainee's 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 SHA contracting officer 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.

**7. Overtime Requirements:**

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

**8. Violation:**

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her 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, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or

permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

**9. Withholding for Unpaid Wages and Liquidated Damages:**

The SHA shall; upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies 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 8 above.

**V. STATEMENTS AND PAYROLLS**

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

**1. Compliance with Copeland Regulations (29 CFR 3):**

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

**2. Payrolls and Payroll Records:**

- a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.
- b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof 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. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found 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 and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.
- c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely

all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for submitting payroll copies of all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;
- (2) that such 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 the Regulations, 29 CFR 3;
- (3) that each laborer or mechanic has been paid not less than the applicable wage rate and fringe benefits or cash equivalent for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

e. 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 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S. C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, 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 SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions 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.

## VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all federal-aid contracts on the national highway system, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:

- a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.
- b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.
- c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data

required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

## VII. SUBLETTING OR ASSIGNING THE CONTRACT

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 State. 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 contractors' own organization (23 CFR 635).

a. "Its own organization" shall be construed to include only workers employed and paid directly 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, assignee, or agent of the prime contractor.

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 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 VII 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 SHA 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 SHA 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 SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

## VIII. SAFETY: ACCIDENT PREVENTION

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 SHA 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. 333).

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. 333).

#### **IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS**

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, the following notice 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:

##### **NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS**

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 not more than \$10,000 or imprisoned not more than 5 years or both.”*

#### **X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT**

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more).

By submission of this bid or the execution of this contract, or

subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 *et seq.*, as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 *et seq.*, as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

#### **XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

1. Instructions for Certification - Primary Covered Transactions:

(Applicable to all Federal-aid contracts - 49 CFR 29)

- a. By signing and submitting this proposal, the prospective primary 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 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 primary 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 department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
- d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary 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," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal

is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary 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 primary 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 Transaction," provided by the department or agency entering into this covered transaction, without modification in all lower tier covered transactions

and in all solicitations for lower tier covered transactions.

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 may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded from Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. 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.

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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#### **Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Primary Covered Transactions**

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a 3-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;
- c. 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 1b of this certification; and
- d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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#### **2. Instructions for Certification - Lower Tier Covered Transactions:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

- 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," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
- 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.
- 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 may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
- 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 dealing.
- 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.

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2. Where the prospective primary participant is unable to certify

**Certification Regarding Debarment, Suspension, Ineligibility And  
Voluntary Exclusion-Lower Tier Covered Transactions:**

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 participation in this transaction 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.

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**XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR  
LOBBYING**

(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 his or her bid or proposal that he or she 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.

**MINIMUM WAGES FOR FEDERAL AND FEDERALLY  
ASSISTED CONSTRUCTION CONTRACTS**

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

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

**NOTICE**

The most current **General Wage Determination Decisions** (wage rates) are available on the IDOT web site. They are located on the Letting and Bidding page at <http://www.dot.state.il.us/desenv/delett.html>.

In addition, ten (10) days prior to the letting, the applicable Federal wage rates will be e-mailed to subscribers. It is recommended that all contractors subscribe to the Federal Wage Rates List or the Contractor's Packet through IDOT's subscription service.

PLEASE NOTE: if you have already subscribed to the Contractor's Packet you will automatically receive the Federal Wage Rates.

The instructions for subscribing are at <http://www.dot.state.il.us/desenv/subsc.html>.

If you have any questions concerning the wage rates, please contact IDOT's Chief Contract Official at 217-782-7806.