

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 124INT) 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.

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.

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a "Request for Authorization to Bid/or Not For Bid Status"(BDE 124INT) 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 Contracts Office at (217)782-7806 or 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.

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?

| Questions Regarding | Call |
|--|--------------|
| 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

Planholders 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.

RETURN WITH BID

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

Letting March 5, 2010

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.

(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. 63427
DUPAGE County
Section 09-00098-00-RS (Addison)
Routes FAU 3884 & FAU 2625 (Army Trail Blvd & Mill Rd)
Project M-9003(474)
District 1 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)

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 required for Prime Contractors to submit a bid after written **Authorization to Bid** has been issued by IDOT's Central Bureau of Construction.

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 INT) and submit an original Affidavit of Availability (BC 57).

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a "Request for 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 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. 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

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?

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|--|--------------|
| Prequalification and/or Authorization to Bid | 217/782-3413 |
| 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. 63427
DUPAGE County
Section 09-00098-00-RS (Addison)
Project M-9003(474)
Routes FAU 3884 & FAU 2625 (Army Trail Blvd & Mill Rd)
District 1 Construction Funds**

Project consists of HMA surface removal and resurfacing, HMA pavement patching, completion of new water main, curb and gutter removal and replacement, sidewalk removal and replacement, adjustment of structures and all other incidental items to complete the work on FAU Rte 3884 (Army Trail Boulevard) from Mill Road to US Rte. 20 and on FAU Rte. 2625 (Mill Road) from Army Trail Boulevard to US Rte. 20 in the village of Addison.

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. **CERTIFICATE OF AUTHORITY.** The undersigned bidder, if a business organized under the laws of another State, assures the Department that it will furnish a copy of its certificate of authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish the certificate within the time provided for execution of an awarded contract may be cause for cancellation of the award and forfeiture of the proposal guaranty to the State.

| | | | | | |
|-------------|------|------|--------------------------|----------------|----------|
| COUNTY NAME | CODE | DIST | SECTION NUMBER | PROJECT NUMBER | ROUTE |
| DUPAGE | 043 | 01 | 09-00098-00-RS (ADDISON) | M-9003/474/000 | FAU 3884 |
| | | | | | FAU 2625 |

| ITEM NUMBER | PAY ITEM DESCRIPTION | UNIT OF MEASURE | QUANTITY | UNIT PRICE | | TOTAL PRICE | |
|-------------|-----------------------|-----------------|----------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| A2000118 | T ACERX FREM AB 3 | EACH | 1.000 X | | | | |
| XX003516 | CONN EX W MN NP 8 | EACH | 9.000 X | | | | |
| XX003517 | CONN EX W MN NP 6 | EACH | 6.000 X | | | | |
| XX003518 | CONN EX W MN NP 4 | EACH | 1.000 X | | | | |
| XX003526 | D I WAT MNF 8X6 RED | EACH | 4.000 X | | | | |
| XX003531 | WAT SER CONN 1 | EACH | 39.000 X | | | | |
| XX003532 | WAT SER CONN 1.5 | EACH | 8.000 X | | | | |
| XX003539 | D I WAT MNF 8 X 6 TEE | EACH | 7.000 X | | | | |
| XX003542 | D I WAT MNF 6 45 BEND | EACH | 7.000 X | | | | |
| XX003543 | D I WAT MNF 8 45 BEND | EACH | 25.000 X | | | | |
| XX003668 | PRECONSTRUCT VID TAP | L SUM | 1.000 X | | | | |
| XX003673 | SANI SERV REP | EACH | 8.000 X | | | | |
| XX003778 | FLUOR RUB VITON GASKT | EACH | 10.000 X | | | | |
| XX004997 | WAT SER CONN 2 | EACH | 3.000 X | | | | |
| XX005003 | D I WAT MNF 10X6 TEE | EACH | 6.000 X | | | | |

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|-------------|-----------------------|-----------------|-------------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| XX005004 | D I WAT MNF 10X6 HTEE | EACH | 3.000 X | = | = | = | = |
| XX005005 | D I WAT MNF 10X8 TEE | EACH | 5.000 X | = | = | = | = |
| XX005010 | D I WAT MNF 4X6 RED | EACH | 1.000 X | = | = | = | = |
| XX005077 | SAN SEW 8 T2 DI CL52 | FOOT | 128.000 X | = | = | = | = |
| XX005221 | TOPSOIL F & P P VD | SQ YD | 3,700.000 X | = | = | = | = |
| XX005477 | D I WM 4 RJ | FOOT | 30.000 X | = | = | = | = |
| XX005478 | D I WM 6 RJ | FOOT | 300.000 X | = | = | = | = |
| XX006119 | TRAF CON & PRO DETOUR | L SUM | 1.000 X | = | = | = | = |
| XX006878 | DI SOLID SLEEVE 4 | EACH | 3.000 X | = | = | = | = |
| XX006879 | DI SOLID SLEEVE 6 | EACH | 7.000 X | = | = | = | = |
| XX006910 | TREE PROTECT, SPECIAL | EACH | 50.000 X | = | = | = | = |
| XX007220 | PVC CASING PIPE 20 | FOOT | 110.000 X | = | = | = | = |
| XX007225 | GATE VL 8 VLT 6 VALT | EACH | 12.000 X | = | = | = | = |
| XX007226 | GATE VL 6 VLT 6 VALT | EACH | 3.000 X | = | = | = | = |
| XX008295 | D I WAT MNF 4 45 BEND | EACH | 4.000 X | = | = | = | = |

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|-------------|-----------------------|-----------------|-----------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| XX008296 | GATE VLVE 10 W/VLT 5 | EACH | 5.000 X | = | = | = | = |
| XX008297 | DI WAT MN TEE, 10 X 4 | EACH | 1.000 X | = | = | = | = |
| XX008298 | TREE TUNNEL 4-12 PIPE | FOOT | 150.000 X | = | = | = | = |
| XX008299 | HOR DIR DRL DIWM 8 RJ | FOOT | 220.000 X | = | = | = | = |
| X0320591 | SAN MAN REMOVED | EACH | 1.000 X | = | = | = | = |
| X0321556 | SANITARY MANHOLE ADJ | EACH | 8.000 X | = | = | = | = |
| X0322032 | STORM SEW WM REQ 10 | FOOT | 376.000 X | = | = | = | = |
| X0322033 | STORM SEW WM REQ 12 | FOOT | 461.000 X | = | = | = | = |
| X0322124 | STORM SEW WM REQ 8 | FOOT | 17.000 X | = | = | = | = |
| X0322256 | TEMP INFO SIGNING | SQ FT | 364.000 X | = | = | = | = |
| X0323820 | DI WAT MN TEE, 8 X 8 | EACH | 10.000 X | = | = | = | = |
| X0323821 | DI WAT MN RED, 10 X 8 | EACH | 1.000 X | = | = | = | = |
| X0324445 | D I WT MNF 8 22.5 BND | EACH | 2.000 X | = | = | = | = |
| X0324446 | DI WT MNF 10 11.25 BD | EACH | 2.000 X | = | = | = | = |
| X0324447 | DI WT MNF 10 22.5 BND | EACH | 1.000 X | = | = | = | = |

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|-------------|-----------------------|-----------------|-------------|------------|-------|-------------|--------|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| X0324448 | D I WT MNF 10 45 BEND | EACH | 6.000 X | = | = | = | = |
| X0324449 | DI WT MNF MJ 8X6 HTEE | EACH | 3.000 X | = | = | = | = |
| X0324931 | DUCT IRON SLEEVE, 8" | EACH | 12.000 X | = | = | = | = |
| X0325012 | CONN EX W MN NP 10 | EACH | 1.000 X | = | = | = | = |
| X0325846 | ABAND EX WATER MAIN | L SUM | 1.000 X | = | = | = | = |
| X0325885 | STL CAS P AUG/JKD 36 | FOOT | 100.000 X | = | = | = | = |
| X0325950 | GATE VLVE 8 W/VLT 5 | EACH | 10.000 X | = | = | = | = |
| X0326014 | DI WAT MN CUTSLV 10 | EACH | 2.000 X | = | = | = | = |
| X0326417 | DI WT MNF 8 11.25 BND | EACH | 3.000 X | = | = | = | = |
| X0712400 | TEMP PAVEMENT | SQ YD | 1,250.000 X | = | = | = | = |
| X0840000 | SAN SEW REMOV 8 | FOOT | 243.000 X | = | = | = | = |
| X4021000 | TEMP ACCESS- PRIV ENT | EACH | 33.000 X | = | = | = | = |
| X4022000 | TEMP ACCESS- COM ENT | EACH | 20.000 X | = | = | = | = |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1.000 X | = | = | = | = |
| Z0076600 | TRAINEES | HOUR | 1,000.000 X | = | 0.80 | = | 800.00 |

| ITEM NUMBER | PAY ITEM DESCRIPTION | UNIT OF MEASURE | QUANTITY | UNIT PRICE | | TOTAL PRICE | |
|-------------|-----------------------|-----------------|-------------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| 20100110 | TREE REMOV 6-15 | UNIT | 11.000 X | = | | = | |
| 20101000 | TEMPORARY FENCE | FOOT | 6,200.000 X | = | | = | |
| 20101200 | TREE ROOT PRUNING | EACH | 25.000 X | = | | = | |
| 20101300 | TREE PRUN 1-10 | EACH | 18.000 X | = | | = | |
| 20101350 | TREE PRUN OVER 10 | EACH | 7.000 X | = | | = | |
| 20101700 | SUPPLE WATERING | UNIT | 200.000 X | = | | = | |
| 20200100 | EARTH EXCAVATION | CU YD | 89.000 X | = | | = | |
| 20201200 | REM & DISP UNS MATL | CU YD | 135.000 X | = | | = | |
| 20700420 | POROUS GRAN EMB SUBGR | CU YD | 135.000 X | = | | = | |
| 20800250 | TRENCH BACKFILL SPL | CU YD | 6,070.000 X | = | | = | |
| 21001000 | GEOTECH FAB F/GR STAB | SQ YD | 300.000 X | = | | = | |
| 21300010 | EXPLOR TRENCH SPL | FOOT | 100.000 X | = | | = | |
| 25000110 | SEEDING CL 1A | ACRE | 0.800 X | = | | = | |
| 25000400 | NITROGEN FERT NUTR | POUND | 78.000 X | = | | = | |
| 25000500 | PHOSPHORUS FERT NUTR | POUND | 78.000 X | = | | = | |

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|-------------|-----------------------|-----------------|-------------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| 25000600 | POTASSIUM FERT NUTR | POUND | 78.000 X | = | | | |
| 25100401 | EXCELSIOR BLANKET SPL | SQ YD | 3,700.000 X | = | | | |
| 25200200 | SUPPLE WATERING | UNIT | 93.000 X | = | | | |
| 25300600 | TRANSP SALV TREES | EACH | 15.000 X | = | | | |
| 25300700 | TRANSP SALV SHRUBS | EACH | 15.000 X | = | | | |
| 28000250 | TEMP EROS CONTR SEED | POUND | 81.000 X | = | | | |
| 28000510 | INLET FILTERS | EACH | 56.000 X | = | | | |
| 28000700 | MULCH METHOD 1 | ACRE | 0.800 X | = | | | |
| 35102000 | AGG BASE CSE B 8 | SQ YD | 1,016.000 X | = | | | |
| 35102400 | AGG BASE CSE B 12 | SQ YD | 490.000 X | = | | | |
| 40600100 | BIT MATLS PR CT | GALLON | 6,688.000 X | = | | | |
| 40600300 | AGG PR CT | TON | 136.000 X | = | | | |
| 40600400 | MIX CR JTS FLANGEWYS | TON | 19.000 X | = | | | |
| 40600895 | CONSTRUC TEST STRIP | EACH | 1.000 X | = | | | |
| 40600982 | HWA SURF REM BUTT JT | SQ YD | 968.000 X | = | | | |

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| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| 40600990 | TEMPORARY RAMP | SQ YD | 357.000 X | = | | = | |
| 40603080 | HMA BC IL-19.0 N50 | TON | 48.000 X | = | | = | |
| 40603085 | HMA BC IL-19.0 N70 | TON | 4,794.000 X | = | | = | |
| 40603310 | HMA SC "C" N50 | TON | 119.000 X | = | | = | |
| 40603340 | HMA SC "D" N70 | TON | 3,944.000 X | = | | = | |
| 42001300 | PROTECTIVE COAT | SQ YD | 2,955.000 X | = | | = | |
| 42300200 | PCC DRIVEWAY PAVT 6 | SQ YD | 178.000 X | = | | = | |
| 42300400 | PCC DRIVEWAY PAVT 8 | SQ YD | 471.000 X | = | | = | |
| 42400200 | PC CONC SIDEWALK 5 | SQ FT | 13,000.000 X | = | | = | |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 866.000 X | = | | = | |
| 44000157 | HMA SURF REM 2 | SQ YD | 3,135.000 X | = | | = | |
| 44000167 | HMA SURF REM 4 1/2 | SQ YD | 30,305.000 X | = | | = | |
| 44000200 | DRIVE PAVEMENT REM | SQ YD | 2,100.000 X | = | | = | |
| 44000300 | CURB REM | FOOT | 120.000 X | = | | = | |
| 44000600 | SIDEWALK REM | SQ FT | 12,395.000 X | = | | = | |

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|-------------|-----------------------|-----------------|--------------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| 44001700 | COMB C C&G REM & REPL | FOOT | 10,000.000 X | = | | | |
| 44003100 | MEDIAN REMOVAL | SQ FT | 1,900.000 X | = | | | |
| 44201737 | CL D PATCH T1 8 | SQ YD | 190.000 X | = | | | |
| 44201741 | CL D PATCH T2 8 | SQ YD | 439.000 X | = | | | |
| 44201745 | CL D PATCH T3 8 | SQ YD | 1,353.000 X | = | | | |
| 44201747 | CL D PATCH T4 8 | SQ YD | 5,800.000 X | = | | | |
| 44201785 | CL D PATCH T1 12 | SQ YD | 10.000 X | = | | | |
| 44201789 | CL D PATCH T2 12 | SQ YD | 20.000 X | = | | | |
| 44201794 | CL D PATCH T3 12 | SQ YD | 40.000 X | = | | | |
| 44201796 | CL D PATCH T4 12 | SQ YD | 100.000 X | = | | | |
| 48102100 | AGG WEDGE SHLD TYPE B | TON | 2.000 X | = | | | |
| 550A0030 | STORM SEW CL A 1 8 | FOOT | 111.000 X | = | | | |
| 550A0040 | STORM SEW CL A 1 10 | FOOT | 65.000 X | = | | | |
| 550A0050 | STORM SEW CL A 1 12 | FOOT | 90.000 X | = | | | |
| 550A0340 | STORM SEW CL A 2 12 | FOOT | 416.000 X | = | | | |

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|-------------|-----------------------|-----------------|-------------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| 55100300 | STORM SEWER REM 8 | FOOT | 99.000 X | = | | = | |
| 55100400 | STORM SEWER REM 10 | FOOT | 389.000 X | = | | = | |
| 55100500 | STORM SEWER REM 12 | FOOT | 318.000 X | = | | = | |
| 56103100 | D I WATER MAIN 8 | FOOT | 3,670.000 X | = | | = | |
| 56103200 | D I WATER MAIN 10 | FOOT | 2,160.000 X | = | | = | |
| 56200300 | WATER SERV LINE 1 | FOOT | 810.000 X | = | | = | |
| 56200500 | WATER SERV LINE 1 1/2 | FOOT | 430.000 X | = | | = | |
| 56200700 | WATER SERV LINE 2 | FOOT | 30.000 X | = | | = | |
| 56400820 | FIRE HYD W/AUX V & VB | EACH | 16.000 X | = | | = | |
| 59300100 | CONTR LOW-STRENG MATL | CU YD | 90.000 X | = | | = | |
| 60200105 | CB TA 4 DIA T1F OL | EACH | 1.000 X | = | | = | |
| 60200305 | CB TA 4 DIA T3F&G | EACH | 2.000 X | = | | = | |
| 60201105 | CB TA 4 DIA T11F&G | EACH | 3.000 X | = | | = | |
| 60207905 | CB TC T11F&G | EACH | 2.000 X | = | | = | |
| 60218400 | MAN TA 4 DIA T1F CL | EACH | 4.000 X | = | | = | |

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|-------------|----------------------|-----------------|----------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| 60228100 | MAN SAN T1F CL | EACH | 1.000 X | = | | | |
| 60234200 | INLETS TA T1F OL | EACH | 4.000 X | = | | | |
| 60235700 | INLETS TA T3F&G | EACH | 6.000 X | = | | | |
| 60236800 | INLETS TA T11F&G | EACH | 6.000 X | = | | | |
| 60249125 | VALVE VAULTS 6 DIA | EACH | 1.000 X | = | | | |
| 60250200 | CB ADJUST | EACH | 9.000 X | = | | | |
| 60255500 | MAN ADJUST | EACH | 9.000 X | = | | | |
| 60260100 | INLETS ADJUST | EACH | 15.000 X | = | | | |
| 60262700 | INLETS RECONST | EACH | 8.000 X | = | | | |
| 60265700 | VV ADJUST | EACH | 1.000 X | = | | | |
| 60300310 | FR & LIDS ADJUST SPL | EACH | 25.000 X | = | | | |
| 60404300 | FR & GRATES T3 | EACH | 12.000 X | = | | | |
| 60404600 | FR & GRATES T9 | EACH | 2.000 X | = | | | |
| 60404800 | FR & GRATES T11 | EACH | 11.000 X | = | | | |
| 60406000 | FR & LIDS T1 OL | EACH | 3.000 X | = | | | |

| ITEM NUMBER | PAY ITEM DESCRIPTION | UNIT OF MEASURE | QUANTITY | UNIT PRICE | | TOTAL PRICE | |
|-------------|-----------------------|-----------------|-------------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| 60406100 | FR & LIDS T1 CL | EACH | 41.000 X | = | | = | |
| 60500050 | REMOV CATCH BAS | EACH | 4.000 X | = | | = | |
| 60500060 | REMOV INLETS | EACH | 11.000 X | = | | = | |
| 60600605 | CONC CURB TB | FOOT | 120.000 X | = | | = | |
| 60619500 | CONC MED TSB6.06 SPL | SQ FT | 1,100.000 X | = | | = | |
| 60624700 | CORRUGATED MED SPL | SQ FT | 800.000 X | = | | = | |
| 66900200 | NON SPL WASTE DISPOSL | CU YD | 320.000 X | = | | = | |
| 66900450 | SPL WASTE PLNS/REPORT | L SUM | 1.000 X | = | | = | |
| 66900500 | BETX SOIL ANALYSIS | EACH | 1.000 X | = | | = | |
| 67100100 | MOBILIZATION | L SUM | 1.000 X | = | | = | |
| 70102620 | TR CONT & PROT 701501 | L SUM | 1.000 X | = | | = | |
| 70102630 | TR CONT & PROT 701601 | L SUM | 1.000 X | = | | = | |
| 70102635 | TR CONT & PROT 701701 | L SUM | 1.000 X | = | | = | |
| 70102640 | TR CONT & PROT 701801 | L SUM | 1.000 X | = | | = | |
| 70106800 | CHANGEABLE MESSAGE SN | CAL MO | 25.000 X | = | | = | |

| ITEM NUMBER | PAY ITEM DESCRIPTION | UNIT OF MEASURE | QUANTITY | UNIT PRICE | | TOTAL PRICE | |
|-------------|-----------------------|-----------------|--------------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| 70300100 | SHORT-TERM PAVT MKING | FOOT | 17,650.000 X | = | | | |
| 70300210 | TEMP PVT MK LTR & SYM | SQ FT | 1,150.000 X | = | | | |
| 70300220 | TEMP PVT MK LINE 4 | FOOT | 46,400.000 X | = | | | |
| 70300240 | TEMP PVT MK LINE 6 | FOOT | 1,920.000 X | = | | | |
| 70300260 | TEMP PVT MK LINE 12 | FOOT | 1,350.000 X | = | | | |
| 70300280 | TEMP PVT MK LINE 24 | FOOT | 620.000 X | = | | | |
| 70300520 | PAVT MARK TAPE T3 4 | FOOT | 8,100.000 X | = | | | |
| 70301000 | WRK ZONE PAVT MK REM | SQ FT | 4,330.000 X | = | | | |
| 72000100 | SIGN PANEL T1 | SQ FT | 4.000 X | = | | | |
| 72800100 | TELES STL SIN SUPPORT | FOOT | 14.000 X | = | | | |
| 78000100 | THPL PVT MK LTR & SYM | SQ FT | 785.000 X | = | | | |
| 78000200 | THPL PVT MK LINE 4 | FOOT | 9,200.000 X | = | | | |
| 78000400 | THPL PVT MK LINE 6 | FOOT | 3,970.000 X | = | | | |
| 78000600 | THPL PVT MK LINE 12 | FOOT | 910.000 X | = | | | |
| 78000650 | THPL PVT MK LINE 24 | FOOT | 670.000 X | = | | | |

| ITEM NUMBER | PAY ITEM DESCRIPTION | UNIT OF MEASURE | QUANTITY | UNIT PRICE | | TOTAL PRICE | |
|-------------|-----------------------|-----------------|-------------|------------|-------|-------------|-----|
| | | | | DOLLARS | CENTS | DOLLARS | CTS |
| 78100100 | RAISED REFL PAVT MKR | EACH | 80.000 X | = | | | |
| 78300100 | PAVT MARKING REMOVAL | SQ FT | 1,273.000 X | = | | | |
| 78300200 | RAISED REF PVT MK REM | EACH | 80.000 X | = | | | |
| 88600600 | DET LOOP REPL | FOOT | 1,740.000 X | = | | | |
| | | | | TOTAL | \$ | | |

NOTE:

1. EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE.
2. THE UNIT PRICE SHALL GOVERN IF NO TOTAL PRICE IS SHOWN OR IF THERE IS A DISCREPANCY BETWEEN THE PRODUCT OF THE UNIT PRICE MULTIPLIED BY THE QUANTITY.
3. IF A UNIT PRICE IS OMITTED, THE TOTAL PRICE WILL BE DIVIDED BY THE QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE.
4. A BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN.

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. By execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances has 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 termination of the contract and the suspension or debarment of the bidder.

II. ASSURANCES

A. 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. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous assurance, and the surety providing the performance bond shall be responsible for the completion of the contract.

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 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. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-10.

C. 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.

D. 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.

E. 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.

F. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

Section 50-30. Revolving door prohibition. Chief procurement officers, associate procurement officers, State purchasing officers, 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.

G. 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.

H. 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.

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I. 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

A. 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. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous certification, and the surety providing the performance bond shall be responsible for completion of the contract.

B. 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 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, 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 shall contain a certification by the contractor that the contractor is not barred from being awarded a contract or subcontract under this Section. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

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

C. 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.

D. 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.

RETURN WITH BID

(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.

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.

E. 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.

F. 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.

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G. Debt Delinquency

1. The Illinois Procurement Code provides:

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

The contractor or bidder certifies that it, or any affiliate, is not barred from being awarded a contract under 30 ILCS 500. Section 50-11 prohibits a person from entering into a contract with a State agency 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 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 contractor further acknowledges that the contracting State agency may declare the contract void if this certification is false or if the contractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

H. Sarbanes-Oxley Act of 2002

1. The Illinois Procurement Code, Section 50-60(c), provides:

The contractor 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 for a period of five years prior to the date of the bid or contract. The contractor acknowledges that the contracting agency shall declare the contract void if this certification is false.

I. Addenda

The contractor or bidder certifies that all relevant addenda have been incorporated in to this contract. Failure to do so may cause the bid to be declared unacceptable.

J. Section 42 of the Environmental Protection Act

The contractor certifies in accordance with 30 ILCS 500/50-12 that the bidder or contractor is not barred from being awarded a contract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency 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 contractor acknowledges that the contracting agency may declare the contract void if this certification is false.

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.

L. Executive Order Number 1 (2007) Regarding Lobbying on Government Procurements

The bidder hereby warrants and certifies that they have complied and will comply with the requirements set forth in this Order. The requirements of this warrant and certification are a material part of the contract, and the contractor shall require this warrant and certification provision to be included in all approved subcontracts.

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M. 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, offer or, 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.

N. 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.

TO BE RETURNED 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 Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous disclosure, 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 \$10,000 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.

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.

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 or incorporated by reference.**

C. Disclosure Form Instructions

Form A: For bidders that have previously submitted the information requested in Form A

The Department has retained the Form A disclosures submitted by all bidders responding to these requirements for the April 24, 1998 or any subsequent letting conducted by the Department. The bidder has the option of submitting the information again or the bidder may check the following certification statement indicating that the information previously submitted by the bidder is, as of the date of submission, current and accurate. Before checking this certification, the bidder should carefully review its prior submissions to ensure the Certification is correct. If the Bidder checks the Certification, the Bidder should proceed to Form B instructions.

CERTIFICATION STATEMENT

I have determined that the Form A disclosure information previously submitted is current and accurate, and all forms are hereby incorporated by reference in this bid. Any necessary additional forms or amendments to previously submitted forms are attached to this bid.

(Bidding Company)



Signature of Authorized Representative

Date

Form A: For bidders who have NOT previously submitted the information requested in Form A

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 the second page of 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 \$102,600.00? YES ___ NO ___
3. Does anyone in your organization receive more than \$106,447.20 of the bidding entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not 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 \$106,447.20? 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 on page 2 of Form A must be signed and dated by a person that is authorized to execute contracts for your company.

Form B: 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.

D. Bidders Submitting More Than One Bid

Bidders submitting multiple bids may submit one set of forms consisting of all required Form A disclosures and one Form B for use with all bids. Please indicate in the space provided below the bid item that contains the original disclosure forms and the bid items which incorporate the forms by reference.

- The bid submitted for letting item _____ contains the Form A disclosures or Certification Statement and the Form B disclosures. The following letting items incorporate the said forms by reference:

RETURN WITH BID/OFFER

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 \$10,000, 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.

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 \$106,447.20 (60% of the Governor's salary as of 3/1/09). (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 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 \$106,447.20, (60% of the Governor's salary as of 3/1/09) provide the name the State agency for which you are employed and your annual salary. _____

RETURN WITH BID/OFFER

- 3. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds \$106,447.20, (60% of the Governor's salary as of 3/1/09) 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 the 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 \$106,447.20, (60% of the Governor's salary as of 3/1/09) 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 2 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 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 \$106,447.20, (60% of the Governor's salary as of 3/1/09) 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 \$106,447.20.00, (60% of the salary of the Governor as of 3/1/09) 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 the 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 \$106,447.20, (60% of the Governor's salary as of 3/1/09) 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 2 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/OFFER

(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 ___

APPLICABLE STATEMENT

This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page.

Completed by: _____ Date _____
Signature of Individual or Authorized Representative

NOT APPLICABLE STATEMENT

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

RETURN WITH BID/OFFER

**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 \$10,000, 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. 63427
DUPAGE County
Section 09-00098-00-RS (Addison)
Project M-9003(474)
Routes FAU 3884 & FAU 2625 (Army Trail Blvd & Mill Rd)
District 1 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. 63427
DUPAGE County
Section 09-00098-00-RS (Addison)
Project M-9003(474)
Routes FAU 3884 & FAU 2625 (Army Trail Blvd & Mill Rd)
District 1 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 _____

(IF A JOINT VENTURE, USE THIS SECTION FOR THE MANAGING PARTY AND THE SECOND PARTY SHOULD SIGN BELOW) Attest _____
Signature _____
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

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. 63427
DUPAGE County
Section 09-00098-00-RS (Addison)
Project M-9003(474)
Routes FAU 3884 & FAU 2625 (Army Trail Blvd & Mill Rd)
District 1 Construction Funds**



Illinois Department of Transportation



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., March 5, 2010. 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. 63427
DUPAGE County
Section 09-00098-00-RS (Addison)
Project M-9003(474)
Routes FAU 3884 & FAU 2625 (Army Trail Blvd & Mill Rd)
District 1 Construction Funds**

Project consists of HMA surface removal and resurfacing, HMA pavement patching, completion of new water main, curb and gutter removal and replacement, sidewalk removal and replacement, adjustment of structures and all other incidental items to complete the work on FAU Rte 3884 (Army Trail Boulevard) from Mill Road to US Rte. 20 and on FAU Rte. 2625 (Mill Road) from Army Trail Boulevard to US Rte. 20 in the village of Addison.

- 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, 2010

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 1-1-10)

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| LR SD 13 | | <input type="checkbox"/> Required Cold Milled Surface Texture | Nov. 1, 1987 | Jan. 1, 2007 |
| LR 102 | | <input type="checkbox"/> Protests on Local Lettings | Jan. 1, 2006 | |
| LR 105 | 91 | <input checked="" type="checkbox"/> Cooperation with Utilities | Jan. 1, 1999 | Jan. 1, 2007 |
| LR 107-2 | | <input type="checkbox"/> Railroad Protective Liability Insurance for Local Lettings | Mar. 1, 2005 | Jan. 1, 2006 |
| LR 107-3 | | <input type="checkbox"/> Disadvantaged Business Enterprise Participation | Jan. 1, 2007 | Nov. 1, 2008 |
| LR 107-4 | 94 | <input checked="" type="checkbox"/> Insurance | Feb. 1, 2007 | Aug. 1, 2007 |
| LR 107-5 | | <input type="checkbox"/> Substance Abuse Prevention Program | Jan. 1, 2008 | Jan. 8, 2008 |
| LR 108 | | <input type="checkbox"/> Combination Bids | Jan. 1, 1994 | Mar. 1, 2005 |
| LR 212 | | <input type="checkbox"/> Shaping Roadway | Aug. 1, 1969 | Jan. 1, 2002 |
| LR 355-1 | | <input type="checkbox"/> Asphalt Stabilized Base Course, Road Mix or Traveling Plant Mix | Oct. 1, 1973 | Jan. 1, 2007 |
| LR 355-2 | | <input type="checkbox"/> Asphalt Stabilized Base Course, Plant Mix | Feb. 20, 1963 | Jan. 1, 2007 |
| LR 400-1 | | <input type="checkbox"/> Bituminous Treated Earth Surface | Jan. 1, 2007 | Jan. 1, 2008 |
| LR 400-2 | | <input type="checkbox"/> Bituminous Surface Mixture (Class B) | Jan. 1, 2008 | |
| LR 402 | | <input type="checkbox"/> Salt Stabilized Surface Course | Feb. 20, 1963 | Jan. 1, 2007 |
| LR 403-2 | | <input type="checkbox"/> Bituminous Hot Mix Sand Seal Coat | Aug. 1, 1969 | Jan. 1, 2007 |
| LR 406 | | <input type="checkbox"/> Filling HMA Core Holes with Non-shrink Grout | Jan. 1, 2008 | |
| LR 420 | | <input type="checkbox"/> PCC Pavement (Special) | May 12, 1964 | Jan. 2, 2007 |
| LR 442 | | <input type="checkbox"/> Bituminous Patching Mixtures for Maintenance Use | Jan. 1, 2004 | Jun. 1, 2007 |
| LR 451 | | <input type="checkbox"/> Crack Filling Bituminous Pavement with Fiber-Asphalt | Oct. 1, 1991 | Jan. 1, 2007 |
| LR 503-1 | | <input type="checkbox"/> Furnishing Class SI Concrete | Oct. 1, 1973 | Jan. 1, 2002 |
| LR 503-2 | | <input type="checkbox"/> Furnishing Class SI Concrete (Short Load) | Jan. 1, 1989 | Jan. 1, 2002 |
| LR 542 | | <input type="checkbox"/> Pipe Culverts, Type _____ (Furnished) | Sep. 1, 1964 | Jan. 1, 2007 |
| LR 663 | | <input type="checkbox"/> Calcium Chloride Applied | Jun. 1, 1958 | Jan. 1, 2007 |
| LR 702 | | <input type="checkbox"/> Construction and Maintenance Signs | Jan. 1, 2004 | Jun. 1, 2007 |
| LR 1004 | | <input type="checkbox"/> Coarse Aggregate for Bituminous Surface Treatment | Jan. 1, 2002 | Jan. 1, 2007 |
| LR 1013 | | <input type="checkbox"/> Rock Salt (Sodium Chloride) | Aug. 1, 1969 | Jan. 1, 2002 |
| LR 1030 | | <input type="checkbox"/> Growth Curve | Mar. 1, 2008 | |
| LR 1032-1 | | <input type="checkbox"/> Emulsified Asphalts | Jan. 1, 2007 | Feb. 7, 2008 |
| LR 1032-2 | | <input type="checkbox"/> Multigrade Cold Mix Asphalt | Jan. 1, 2007 | Feb. 1, 2007 |
| LR 1102 | | <input type="checkbox"/> Road Mix or Traveling Plan Mix Equipment | Jan. 1, 2007 | |

BDE SPECIAL PROVISIONS
For the January 15 and March 5, 2010 Lettings

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

| <u>File Name</u> | <u>Pg #</u> | <u>Special Provision Title</u> | <u>Effective</u> | <u>Revised</u> |
|------------------|-------------|--|------------------|----------------|
| 80240 | | Above Grade Inlet Protection | July 1, 2009 | |
| 80099 | | Accessible Pedestrian Signals (APS) | April 1, 2003 | Jan. 1, 2007 |
| 80243 | | American Recovery and Reinvestment Act Provisions | April 1, 2009 | |
| 80236 | | American Recovery and Reinvestment Act Signing | April 1, 2009 | April 15, 2009 |
| 80186 | 95 | X Alkali-Silica Reaction for Cast-in-Place Concrete | Aug. 1, 2007 | Jan. 1, 2009 |
| 80213 | 93 | X Alkali-Silica Reaction for Precast and Precast Prestressed Concrete | Jan. 1, 2009 | |
| 80207 | 101 | X Approval of Proposed Borrow Areas, Use Areas, and/or Waste Areas Inside Illinois State Borders | Nov. 1, 2008 | |
| 80192 | | Automated Flagger Assistance Device | Jan. 1, 2008 | |
| 80173 | 102 | X Bituminous Materials Cost Adjustments | Nov. 2, 2006 | April 1, 2009 |
| 80241 | | Bridge Demolition Debris | July 1, 2009 | |
| 50261 | | Building Removal-Case I (Non-Friable and Friable Asbestos) | Sept. 1, 1990 | Jan. 1, 2007 |
| 50481 | | Building Removal-Case II (Non-Friable Asbestos) | Sept. 1, 1990 | Jan. 1, 2007 |
| 50491 | | Building Removal-Case III (Friable Asbestos) | Sept. 1, 1990 | Jan. 1, 2007 |
| 50531 | | Building Removal-Case IV (No Asbestos) | Sept. 1, 1990 | Jan. 1, 2007 |
| 80166 | 105 | X Cement | Jan. 1, 2007 | April 1, 2009 |
| 80198 | 108 | X Completion Date (via calendar days) | April 1, 2008 | |
| 80199 | | Completion Date (via calendar days) Plus Working Days | April 1, 2008 | |
| 80094 | 109 | X Concrete Admixtures | Jan. 1, 2003 | April 1, 2009 |
| 80214 | | Concrete Gutter, Type A | Jan. 1, 2009 | |
| 80215 | | Concrete Joint Sealer | Jan. 1, 2009 | |
| 80226 | 113 | X Concrete Mix Designs | April 1, 2009 | |
| 80237 | 115 | X Construction Air Quality – Diesel Vehicle Emissions Control | April 1, 2009 | July 1, 2009 |
| 80239 | 117 | X Construction Air Quality – Idling Restrictions | April 1, 2009 | |
| 80227 | | Determination of Thickness | April 1, 2009 | |
| 80177 | | Digital Terrain Modeling for Earthwork Calculations | April 1, 2007 | |
| 80029 | 119 | X Disadvantaged Business Enterprise Participation | Sept. 1, 2000 | Jan. 1, 2010 |
| 80178 | 128 | X Dowel Bars | April 1, 2007 | Jan. 1, 2008 |
| 80179 | | Engineer's Field Office Type A | April 1, 2007 | Aug. 1, 2008 |
| 80205 | | Engineer's Field Office Type B | Aug. 1, 2008 | |
| 80189 | 129 | X Equipment Rental Rates | Aug. 2, 2007 | Jan. 2, 2008 |
| 80244 | | Filter Fabric | Nov. 1, 2009 | Jan. 1, 2010 |
| 80228 | | Flagger at Side Roads and Entrances | April 1, 2009 | |
| 80249 | 131 | X Frames and Grates | Jan. 1, 2010 | |
| 80229 | | Fuel Cost Adjustment | April 1, 2009 | July 1, 2009 |
| 80169 | | High Tension Cable Median Barrier | Jan. 1, 2007 | April 1, 2009 |
| 80194 | 132 | X HMA – Hauling on Partially Completed Full-Depth Pavement | Jan. 1, 2008 | |
| 80245 | 134 | X Hot-Mix Asphalt – Anti-Stripping Additive | Nov. 1, 2009 | |
| 80246 | 135 | X Hot-Mix Asphalt – Density Testing of Longitudinal Joints | Jan. 1, 2010 | |
| 80250 | 136 | X Hot-Mix Asphalt – Drop-Offs | Jan. 1, 2010 | |
| 80201 | 137 | X Hot-Mix Asphalt – Plant Test Frequency | April 1, 2008 | Jan. 1, 2010 |
| 80251 | 139 | X Hot-Mix Asphalt – QC/QA Acceptance Criteria | Jan. 1, 2010 | |
| 80202 | 140 | X Hot-Mix Asphalt – Transportation | April 1, 2008 | |
| 80109 | | Impact Attenuators | Nov. 1, 2003 | Nov. 1, 2008 |
| 80110 | | Impact Attenuators, Temporary | Nov. 1, 2003 | Jan. 1, 2007 |
| 80252 | | Improved Subgrade | Jan. 1, 2010 | |
| 80230 | 141 | X Liquidated Damages | April 1, 2009 | |
| 80196 | | Mast Arm Assembly and Pole | Jan. 1, 2008 | Jan. 1, 2009 |
| 80045 | | Material Transfer Device | June 15, 1999 | Jan. 1, 2009 |
| 80203 | 142 | X Metal Hardware Cast into Concrete | April 1, 2008 | April 1, 2009 |
| 80165 | | Moisture Cured Urethane Paint System | Nov. 1, 2006 | Jan. 1, 2010 |
| 80238 | | Monthly Employment Report | April 1, 2009 | |

| File Name | Pg # | | Special Provision Title | Effective | Revised |
|-----------|------|---|---|---------------|---------------|
| 80253 | | | Movable Traffic Barrier System | Jan. 1, 2010 | |
| 80082 | 143 | X | Multilane Pavement Patching | Nov. 1, 2002 | |
| 80180 | 144 | X | National Pollutant Discharge Elimination System / Erosion and Sediment Control Deficiency Deduction | April 1, 2007 | Nov. 1, 2009 |
| 80208 | | | Nighttime Work Zone Lighting | Nov. 1, 2008 | |
| 80182 | | | Notification of Reduced Width | April 1, 2007 | |
| 80069 | | | Organic Zinc-Rich Paint System | Nov. 1, 2001 | Jan. 1, 2010 |
| 80216 | | | Partial Exit Ramp Closure for Freeway/Expressway | Jan. 1, 2009 | |
| 80231 | 146 | X | Pavement Marking Removal | April 1, 2009 | |
| 80254 | 147 | X | Pavement Patching | Jan. 1, 2010 | |
| 80022 | 148 | X | Payments to Subcontractors | June 1, 2000 | Jan. 1, 2006 |
| 80209 | 150 | X | Personal Protective Equipment | Nov. 1, 2008 | |
| 80232 | | | Pipe Culverts | April 1, 2009 | |
| 80119 | | | Polyurea Pavement Marking | April 1, 2004 | Jan. 1, 2009 |
| 80210 | | | Portland Cement Concrete Inlay or Overlay | Nov. 1, 2008 | |
| 80170 | 151 | X | Portland Cement Concrete Plants | Jan. 1, 2007 | |
| 80217 | | | Post Clips for Extruded Aluminum Signs | Jan. 1, 2009 | |
| 80171 | 153 | X | Precast Handling Holes | Jan. 1, 2007 | |
| 80218 | | | Preventive Maintenance – Bituminous Surface Treatment | Jan. 1, 2009 | April 1, 2009 |
| 80219 | | | Preventive Maintenance – Cape Seal | Jan. 1, 2009 | April 1, 2009 |
| 80220 | | | Preventive Maintenance – Micro-Surfacing | Jan. 1, 2009 | |
| 80221 | | | Preventive Maintenance – Slurry Seal | Jan. 1, 2009 | |
| 80211 | | | Prismatic Curb Reflectors | Nov. 1, 2008 | |
| 80015 | | | Public Convenience and Safety | Jan. 1, 2000 | |
| 34261 | | | Railroad Protective Liability Insurance | Dec. 1, 1986 | Jan. 1, 2006 |
| 80157 | | | Railroad Protective Liability Insurance (5 and 10) | Jan. 1, 2006 | |
| 80247 | 155 | X | Raised Reflective Pavement Markers | Nov. 1, 2009 | |
| 80223 | | | Ramp Closure for Freeway/Expressway | Jan. 1, 2009 | |
| 80172 | | | Reclaimed Asphalt Pavement (RAP) | Jan. 1, 2007 | Jan. 1, 2010 |
| 80183 | 156 | X | Reflective Sheeting on Channelizing Devices | April 1, 2007 | Nov. 1, 2008 |
| 80206 | 157 | X | Reinforcement Bars – Storage and Protection | Aug. 1, 2008 | April 1, 2009 |
| 80224 | | | Restoring Bridge Approach Pavements Using High-Density Foam | Jan. 1, 2009 | |
| 80131 | 158 | X | Seeding | July 1, 2004 | Jan. 1, 2010 |
| 80152 | 161 | X | Self-Consolidating Concrete for Cast-In-Place Construction | Nov. 1, 2005 | Jan. 1, 2009 |
| 80132 | 166 | X | Self-Consolidating Concrete for Precast Products | July 1, 2004 | Jan. 1, 2007 |
| 80127 | | | Steel Cost Adjustment | April 2, 2004 | April 1, 2009 |
| 80255 | | | Stone Matrix Asphalt | Jan. 1, 2010 | |
| 80234 | | | Storm Sewers | April 1, 2009 | |
| 80143 | 168 | X | Subcontractor Mobilization Payments | April 2, 2005 | |
| 80075 | | | Surface Testing of Pavements | April 1, 2002 | Jan. 1, 2007 |
| 80087 | 169 | X | Temporary Erosion Control | Nov. 1, 2002 | Jan. 1, 2010 |
| 80256 | | | Temporary Longitudinal Traffic Barrier System | Jan. 1, 2010 | |
| 80225 | | | Temporary Raised Pavement Marker | Jan. 1, 2009 | |
| 80176 | 171 | X | Thermoplastic Pavement Markings | Jan. 1, 2007 | |
| 80257 | | | Traffic Barrier Terminal, Type 6 | Jan. 1, 2010 | |
| 20338 | 173 | X | Training Special Provisions | Oct. 15, 1975 | |
| 80258 | | | Truck Mounted/Trailer Mounted Attenuators | Jan. 1, 2010 | |
| 80071 | | | Working Days | Jan. 1, 2002 | |

The following special provisions are in the 2010 Supplemental Specifications and Recurring Special Provisions:

| <u>File Name</u> | <u>Special Provision Title</u> | <u>New Location</u> | <u>Effective</u> | <u>Revised</u> |
|------------------|--|---|------------------|----------------|
| 80193 | Concrete Barrier | Section 637 | Jan. 1, 2008 | |
| 80175 | Epoxy Pavement Markings | Section 1095 | Jan. 1, 2007 | |
| 80181 | Hot-Mix Asphalt – Field Voids in the Mineral Aggregate | Section 1030 | April 1, 2007 | April 1, 2008 |
| 80136 | Hot-Mix Asphalt Mixture IL-4.75 | Sections 406, 1003, 1030, 1032 and 1102 | Nov. 1, 2004 | Jan. 1, 2008 |
| 80195 | Hot-Mix Asphalt Mixture IL-9.5L | Sections 1004 and 1030 | Jan. 1, 2008 | |
| 80129 | Notched Wedge Longitudinal Joint | Section 406 | July 1, 2004 | Jan. 1, 2007 |
| 80235 | Payrolls and Payroll Records | Check Sheets #1 and #5 | Mar. 1, 2009 | July 1, 2009 |
| 80134 | Plastic Blockouts for Guardrail | Section 630 | Nov. 1, 2004 | Jan. 1, 2007 |
| 80151 | Reinforcement Bars | Section 1006 | Nov. 1, 2005 | April 1, 2009 |
| 80184 | Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs | Sections 1090, 1091, 1092 and 1093 | April 1, 2007 | |
| 80212 | Sign Panels and Sign Panel Overlays | Supplemental | Nov. 1, 2008 | |
| 80197 | Silt Filter Fence | Sections 1080 and 1081 | Jan. 1, 2008 | |
| 80153 | Steel Plate Beam Guardrail | Section 1006 | Nov. 1, 2005 | Aug. 1, 2007 |
| 80191 | Stone Gradation Testing | Section 1005 | Nov. 1, 2007 | |
| 80185 | Type ZZ Retroreflective Sheeting, Nonreflective Sheeting, and Translucent Overlay Film for Highway Signs | Sections 1090, 1091, 1092 and 1093 | April 1, 2007 | |
| 80149 | Variable Spaced Tining | Section 420 | Aug. 1, 2005 | Jan. 1, 2007 |
| 80204 | Woven Wire Fence | Section 1006 | April 1, 2008 | |

The following special provisions require additional information from the designer. The additional information needs to be included in a separate document attached to this check sheet. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

- Bridge Demolition Debris
- Building Removal-Case I
- Building Removal-Case II
- Building Removal-Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

Special Provisions
070142.40

Village of Addison
Mill Road and Army Trail Boulevard STP Improvements
Section No.: 09-00098-00-RS
Project No.: M-9003(474)

STATE OF ILLINOIS
SPECIAL PROVISIONS

CONTRACT NO.: 63427

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", "Standard Specifications for Water and Sewer Main Construction in Illinois" and the "Manual of Test Procedures for Materials" and the "Standard Specifications for the Village of Addison" 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 water main installation and resurfacing of Mill Road and Army Trail Boulevard in the Village of Addison, DuPage County, Project No. M-9003(474), Section 09-00098-00-RS, 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 IMPROVEMENT:

The project is located on Mill Road from Army Trail Boulevard to U.S. Route 20 (Lake Street) and Army Trail Boulevard (John F. Kennedy Drive) from Mill Road to U.S. Route 20 (Lake Street) in the Village of Addison. A location map is shown on the cover of the Plans. The gross length of improvements is 6,200 feet (1.174 miles). The net length of improvements is 6,200 feet (1.174 miles).

DESCRIPTION OF IMPROVEMENT:

The Work included in this contract consists of furnishing all labor, materials, equipment, and other incidentals necessary for the completion of new water main and abandonment of existing water main; hot-mix asphalt surface removal; hot-mix asphalt pavement patching; curb and gutter removal and replacement; sidewalk removal and replacement; driveway removal and replacement; hot-mix asphalt resurfacing; adjustment of structures; thermoplastic pavement markings; and other incidental and miscellaneous items of work in accordance with the Plans, Standard Specifications, and Special Provisions for this improvement.

MAINTENANCE OF ROADWAYS:

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

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

Special Provisions
070142.40

Village of Addison
Mill Road and Army Trail Boulevard STP Improvements
Section No.: 09-00098-00-RS
Project No.: M-9003(474)

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.

STATUS OF UTILITIES:

Effective: January 30, 1987

Revised: July 1, 1994

Utility companies involved in this project have provided the following estimated dates:

| Name of Utility | Type | Location | Estimated Dates for Start and Completion of Relocation or Adjustments |
|---|--|---|---|
| ATT/Legal Mandate Team Mr. David Phelps 1000 Commerce Drive Oak Brook, Illinois 60523 630-573-6464 | Underground telephone and fiber optic cables | Underground vault to be adjusted – Mill Rd - STA 99+51, 5' RT; 99+59, 11' RT; 99+51, 5' RT; 107+42, 14' RT; 107+56, 16' RT. | Exact dates for adjustment are unknown. Coordination by the Contractor is required. |
| Com Ed Commonwealth Edison 1N 423 Swift Road Lombard, Illinois 60148 Mr. Joe Stacho 630-424-5704 ComEd Project# 5H090174 and P.L. #445292 | Underground and aerial electrical cable | Pole to be supported/braced – Mill Rd – STA 105+29, 29' RT; 107+36, 29' RT STA 113+68, 30' RT. | Relocation by May 1, 2010 Coordination by the Contractor is required. |
| Comcast Cable 688 Industrial Drive Elmhurst, IL 60126 Mr. Tony Delvaux 847-789-0792 | Underground and aerial cable | Facilities attached to ComEd poles | Exact dates for relocation are unknown. Coordination by Comcast with ComEd is required. Coordination by the Contractor is required. |
| Nicor Ms. Constance Lane 1844 Ferry Road Naperville, IL 60563 630-388-3830 Nicor #SC8005 | Underground gas main and services | | Plans sent to EN Engineering to determine if relocations are required. Coordination by the Contractor is required. |

Special Provisions
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Village of Addison
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| Name of Utility | Type | Location | Estimated Dates for Start and Completion of Relocation or Adjustments |
|--|-------------------------------------|----------|---|
| Redspeed Illinois, LLC Scott Hemmings 400 Eisenhower Lane North Lombard, IL 60148 630-317-5740 | Underground fiber optic cable | | No apparent conflicts |
| DuPage Water Commission Michael Schweizer 600 E Butterfield Road Elmhurst, IL 60126 630-834-0100 | Underground water main | | No apparent conflicts |

The above represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of Articles 105.07 and 107.31 of the Standard Specifications shall apply.

TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN:

SUMMARY: Trench, backfill, and compact shown on the plans, as specified herein and as needed for installation of water main in accordance with the "Standard Specification for Water and Sewer Main Construction in Illinois".

QUALITY ASSURANCE: Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

Use equipment adequate in size, capacity, and numbers to accomplish the work in a timely manner.

Comply with requirements of governmental agencies having jurisdiction.

GRANULAR PIPE BEDDING AND COVERING MATERIALS: Provide well graded, washed, mixture of gravel or crushed stone aggregate free of clay, loam, dirt, calcareous or other foreign matter conforming to the IDOT "Standard Specifications" gradation No. CA 11 or CA-6 or the Standard Specifications for Water and Sewer Construction in Illinois, with the following gradation:

| <u>Sieve Size</u> | <u>Percent Passing</u> |
|-------------------|------------------------|
| 1-inch | 100% |
| 3/4-inch | 84 - 100% |
| 1/2-inch | 30 - 60% |
| No. 4 | 0 - 12% |
| No. 16 | 0 - 6% |

1. For flexible thermoplastic pipes including sewer pipes, sewage force mains, and water mains: Comply with ASTM D2321, Class I or II as modified below.
 - a. Exclude sharp angular granular materials.
 - b. Limit maximum particle size to 1/2-inch.
 - c. Do not use Class II materials in wet conditions.
2. For rigid pipes comply with ASTM C12, Bedding Class B.

EXCAVATED BACKFILL MATERIALS IN NON-PAVED AREAS: Provide soil materials free from organic matter, rubble, or frozen material, containing no rocks or lumps over 6 inches, and with not more than 15 percent of the rocks or lumps larger than 2-3/8 inches.

GRANULAR BACKFILL MATERIALS: Provide IDOT gradation CA-6 material complying with Article 208.02 of the IDOT Standard Specifications and these special provisions.

GEOTECHNICAL FABRIC: Provide geotechnical fabric for separation of granular material and native soil in areas where trench is over excavated to remove unsuitable materials.

1. Acceptable manufacturers:
 - a. Mirafi: 160N.
 - b. Synthetic Industries: 601.
 - c. Amaco: 4551.
 - d. Or approved equal.

WATER MAIN REPAIR: Repair water main or water services damaged during construction utilizing products of type and manufacturers as approved by the Owner.

Pipe couplings for joining of sections of cut water main where a section of new pipe is used to replace a broken pipe.

1. Acceptable manufacturers:
 - a. Dresser Style 38.
 - b. Smith-Blair CC-441.
 - c. Or equal.
2. Repair clamps for broken or cracked pipe and sealing of existing corporation stop opening.
 - a. Use full-circle single band all stainless steel clamps.
 - b. Acceptable manufacturers:
 - (1) Dresser Style 360.
 - (2) Smith-Blair 200 Series.
 - (3) Or equal.
 - c. Replace damaged service corporation stops by installation of full-circle single band all stainless steel clamps, with service outlet, matching manufacturer's and styles used for repair of a cracked pipe.

GENERAL CONSTRUCTION REQUIREMENTS:

1. Protection of existing facilities:
 - a. Unless shown to be removed, protect existing structures, conduits, active utility lines and all other facilities shown on the Drawings or otherwise made known to the Contractor. If damaged, repair, replace, or restore to a condition equal to or better than the original condition at no additional cost to the Owner.
 - b. Notify all persons, firms, corporations, or agencies owning or using any existing structures, conduits, or utilities which may be affected by the Work prior to the start of construction.
 - c. Make arrangements to locate, maintain, protect, and/or relocate facilities in order to complete the Work.
 - d. Make such exploration as is necessary to determine the exact location of underground utilities.
 - e. Exercise care during the progress of work in the area to prevent damage to the utilities.
 - f. Whenever it becomes necessary to relocate underground gas mains, telephone conduit, or electrical lines or support or relocate utility poles, the utility company involved will make such relocation or provide pole support. Notify the utility company promptly.
 - g. Whenever it becomes necessary to relocate water or other pipes or conduits in direct conflict with the proposed pipe (exclusive of culverts) which are not shown on the Drawings, obtain the direction from the Engineer for the relocation. Compensation will be allowed only for such quantities as determined by the Engineer.
 - h. Do not obstruct accessibility of fire hydrants.

TRENCHING:

1. Do not advance trench excavation more than 50 feet ahead of completed pipe installation except as approved by the Engineer.
2. Provide and maintain sheeting, shoring, and bracing necessary for protection of the Work, adjacent property, and for the safety of personnel.
 - a. Remove temporary sheeting and bracing after backfilling to an elevation which will prohibit caving of exposed sidebanks.
 - b. Fill voids left by the withdrawal of sheeting with compacted sand.
 - c. The Engineer may direct that supports in trenches be cut off at any specific elevation to protect adjacent facilities or property. Compensation for support left in place will be negotiated.
 - d. No extra payment will be made for the supports left in place without the direction of the Engineer.
 - e. Do not leave supports within 4 feet of the ground or pavement surface in place without the permission of the Engineer.

3. Provide pumping, bailing, wellpointing, and construct ditches and dikes required to dewater and drain ground water, sewage, or stormwater to keep the excavation and site dry for the completion of the Work.
4. Excavation:
 - a. Excavate by open cut unless otherwise indicated on the Drawings.
 - b. Excavate trenches to the depths and grades necessary for the pipelines with allowances for bedding material.
 - c. Over excavate organic, soft, spongy, or otherwise unsuitable soils found at or below the bottom of the trench to meet firm subsoil or as determined by the Engineer.
 - d. Comply with the following maximum trench widths at the top of pipelines:

| <u>Nominal Pipe Sizes (inches)</u> | <u>Maximum Trench Widths (inches)</u> |
|--|---|
| 12 or smaller | 30 |
| 14 - 18 | 36 |
| 20 - 24 | 42 |
| 27 - 30 | 48 |
| 33 and larger | 1-1/3 times pipe OD |

- e. Where the trench width exceeds the maximum limitations, provide higher strength pipe, or embed or cradle the pipe in concrete to achieve the necessary load factor as determined by the Engineer at no additional cost to the Owner.

EXCAVATION FOR APPURTENANCES:

1. Excavate for valve vaults, and similar structures to the depths as shown on the Drawings and to a distance sufficient to leave at least 12 inches clear between outer surfaces and the embankment or shoring that may be used to hold and protect the banks.
2. Over depth excavation beyond depths indicated on the Drawings that has not been directed will be considered unauthorized. Fill with sand, gravel, or lean concrete as determined by the Engineer, and at no additional cost to the Owner.

BEDDING AND COVERING OF PIPE: Bedding is defined as the shaped and tamped material which supports the pipes. Covering is defined as the compacted material which protects and covers the pipes. Provide continuous bedding and covering for underground pipelines, except where concrete encasement, concrete cradles, boring or jacking are indicated.

Pipe bedding:

1. Provide compacted granular pipe bedding and covering material with a minimum thickness of 4 inches under pipe barrels and 2 inches under bells.

2. Wherever the trench is over excavated, refill the trench bottom to the required pipeline grade with granular pipe bedding and covering material, or granular material conforming to the IDOT "Standard Specifications" gradation No. CA 11 or CA-6 as determined by the Engineer.
 - a. Removal and replacement of material, or unsuitable material, to a depth of one-foot below pipe barrel outside diameter is considered incidental to installation of the pipe.
3. Wherever the trench is over excavated to remove unsuitable material, install geotechnical fabric between native soil and granular material:
 - a. Install fabric to cover bottom and sides of trench to heights as follows:
 - (1) Sanitary sewer, force main, and water main; to envelop entire bedding and covering material and overlap 1-foot at the top.
 - (2) Where undercut is of a depth that requires more than one piece of fabric to provide envelope, provide sewn seams between sections of fabric.
4. Wherever two or more pipes or conduits are placed in the same trench or excavated area, backfill the trench with granular pipe bedding and covering material to support the uppermost pipe or conduit.
5. Provide sand bedding with a minimum thickness of 3 inches under electrical and wiring conduits and cables.

Pipe covering:

1. Following placement of pipe and inspection of joints, provide compacted granular pipe bedding and covering material for the full width of the trench to 12 inches above the top of the pipe for all pipe sizes and types.
2. Place granular pipe bedding and covering material in uniform loose layers not exceeding 8 inches thick.
 - a. Compact each layer firmly by ramming or tamping with tools approved by the Engineer in such a manner as not to disturb or injure the pipe to yield a minimum density of 95 percent of maximum dry density as determined according to ASTM D1557 or AASHTO-T180.
3. Where trench is widened by installation of structures or jacking pits, extend bedding and covering materials to total width of excavations.

TRENCH BACKFILLING AND COMPACTING: Backfill trench from the top of pipe cover to topsoil, paving subgrade, or foundation level.

For trench in lawns, parkways, and other improved areas not subject to vehicular traffic:

1. Backfill with excavated materials in uniform loose layer not exceeding 12 inches thick.
2. Compact each layer of trench backfill materials to yield a minimum of 85 percent of maximum dry density as determined according to ASTM D1557 or AASHTO-T180.

For trenches within 2 feet of any existing or proposed pavement, curb and gutter, sidewalk, or other paved areas:

1. Backfilling with granular backfill materials:
 - a. Place in uniform loose layer not exceeding 8 inches thick and compact with vibrating roller or equivalent.
 - b. Water jetting may not be used in lieu of vibratory compaction.
 - c. The top 12 inches shall be CA-6 crushed stone or crushed gravel.
2. Compacting requirements:
 - a. Compact each layer of trench backfill materials to yield a minimum density of 95 percent of maximum dry density as determined according to ASTM D1557 or AASHTO T-180.
 - b. Determine the density of compacted backfill at intervals of not more than 500 feet at locations selected by the Engineer.
 - c. Provide the services of an independent testing laboratory for the density tests.
3. Maintain temporary pavement or Class D Patch level with adjoining pavement surfaces until the road is resurfaced.

BACKFILL AND BEDDING FOR APPURTENANCES:

1. Provide 6 inches of granular bedding material unless otherwise shown on the Drawings.
2. Do not backfill until new concrete has properly cured, and any required tests have been accepted.
3. Backfill in lawns and landscaped areas with excavated materials.
4. Backfill in pavement around manholes, catch basins, inlets, valve vaults, and other structures as determined by the Engineer with special granular backfill materials.

FINISH GRADING:

1. Provide finish grading and filling to achieve the lines and grades.
2. Slope grades to drain away from structures.
3. Replace culverts damaged during the construction with new culverts.
4. Except where mounding over trenches is specified, grade smooth areas of the Work including previously grassed areas that have been disturbed, and adjacent transition areas.
5. Fill and compact depressions from settlement and round tops of embankments and breaks in grade.
6. Protect newly graded areas from traffic and erosion. Repair settlement or washing away that may occur prior to surface restoration and re-establish grades to the required elevations at no additional cost to the Owner.
7. Remove unsuitable and surplus excavated materials not used for backfilling from the project site.
8. Do not deposit on public or private property without written permission from property owner or authorized representative of appropriate public agency.

TEMPORARY PAVEMENT:

1. Provide a premixed hot-mix asphalt wearing surface for use during the period between backfilling the trench and constructing the permanent pavement patches at locations open to thru traffic and intersections or as determined by the Engineer.
2. Remove the temporary pavement at the time of permanent pavement construction.

WATER MAIN REPAIR:

1. Whenever existing water mains and water service pipes are damaged during construction, stop the pipe installation work and immediately repair the damaged portion of the existing piping.
2. Contact the Engineer and Owner immediately to report the location and extent of the damage.
3. Repair the water main with methods complying with the "Standards for Water and Sewer Main Construction In Illinois", and any additional requirements required by the Owner.
4. Utilize only materials of repair as noted in the products section of this specification or as dictated by the Owner.
5. Where water services have been stripped or pulled from the water main, replace the corporation stop as instructed by the Engineer and Owner, and replace the water service pipe to a point as determined by the Owner.
6. Comply with disinfection requirements as dictated by the Owner.
7. Do not cover the repair until work is inspected and approved by Owner.

PROTECTION OF EXISTING TREES:

The Contractor shall be responsible for taking measures to minimize damage to the tree limbs, tree trunks, and tree roots at each work site. All such measures shall be included in the contract price for other work except that payment will be made for TREE TRUNK PROTECTION, TEMPORARY FENCE, TREE ROOT PRUNING, TREE PROTECTION SPECIAL and TREE PRUNING.

A. Definitions

1. Critical Root Zone: An 18-inch diameter of protection for every 1-inch trunk diameter as measured at 4.5 feet above the ground. Multiple stem trees shall have an estimated stem diameter by using the sum of all diameters taken at 4.5 feet.

B. Earth Saw Cut of Tree Roots (Root Pruning):

1. Whenever proposed excavation falls within the critical root zone of a tree, the Contractor shall:
 - a. Root prune 6 inches behind and parallel to the proposed edge of trench a neat, clean vertical cut to a minimum depth directed by the Engineer through all affected tree roots.

- b. Root prune to a maximum width of 4 inches using a "Vermeer" wheel, or other similar machine. Trenching machines will not be permitted.
 - c. Exercise care not to cut any existing utilities.
 - d. If during construction it becomes necessary to expose tree roots which have not been pre-cut, the Engineer shall be notified and the Contractor shall provide a clean, vertical cut at the proper root location, nearer the tree trunk, as necessary, by means of hand-digging and trimming with chain saw or hand saw. Ripping, shredding, shearing, chopping or tearing will not be permitted.
2. Whenever curb and gutter is removed for replacement or excavation for removal of or construction of a structure or utility is within the critical root zone of a tree, the Contractor shall:
- a. Root prune 6-inches behind the curbing so as to neatly cut the tree roots.
 - b. Depth of cut shall be 12 inches for curb removal and replacement and 24 inches for structural work. Any roots encountered at a greater depth shall be neatly saw cut at no additional cost.
 - c. Locations where earth saw cutting of tree roots is required will be marked in the field by the Engineer.
3. All root pruning work is to be performed through the services of a licensed arborist to be approved by the Engineer.

Root pruning will be paid for at the contract unit price each for TREE ROOT PRUNING, which price shall be payment for all labor, materials and equipment.

C. Temporary Fence:

1. The Contractor shall erect a temporary fence around all trees within the construction area to establish a "tree protection zone" before any work begins or any material is delivered to the jobsite. No work is to be performed (other than root pruning), materials stored or vehicles driven or parked within the critical root zone.
2. Crushed limestone hydrocarbons and other materials detrimental to trees shall not be dumped within the critical root zone of any tree nor at any higher location where drainage toward the tree could reasonably expect to affect the health of the tree. No attachments, signs, fences or wires, other than that approved for bracing, guying or wrapping shall be attached to trees during construction. No soil shall be removed or added within the critical root zone area of any tree that is to remain.
3. The exact location and establishment of the "tree protection zone" fence shall be approved by the Engineer prior to setting the fence.
4. The fence shall be erected on three sides of the tree at the drip-line of the tree or as determined by the Engineer.
5. All work within the "tree protection zone" shall have the Engineer's prior approval. All slopes and other areas not regarded should be avoided so that unnecessary damage is not done to the existing turf, tree root system ground cover.
6. The grade within the "tree protection zone" shall not be changed unless approved by the Engineer prior to making said changes or performing the work.

The fence shall be similar to wood lath snow fence (48 inches high), plastic poly-type or and other type of highly visible barrier approved by the Engineer. This fence shall be properly maintained and shall remain up until final restoration, unless the Engineer directs removal otherwise. Tree fence shall be supported using T-Post style fence posts. **Utilizing re-bar as a fence post will not be permitted.**

Temporary fence will be paid for at the contract unit price per foot for TEMPORARY FENCE, which price shall include furnishing, installing, maintaining, and removing.

D. Tree Limb Pruning:

1. The Contractor shall inspect the work site in advance and arrange with the Roadside Development Unit (847.705.4171) to have any tree limbs pruned that might be damaged by equipment operations at least one week prior to the start of construction. Any tree limbs that are broken by construction equipment after the initial pruning must be pruned correctly within 72 hours.

Tree limb pruning will be paid for at the contract unit price per each for TREE PRUNING (1 TO 10-INCH DIAMETER) and/or TREE PRUNING (OVER 10-INCH DIAMETER), which price shall include labor, materials, and equipment.

E. Construction within Critical Root Zone:

1. In order to minimize the potential damage to the tree root system(s), the Contractor will not be allowed to operate any construction equipment or machinery within the critical root zone.
2. Sidewalk to be removed in the areas adjacent to the critical root zone shall be removed with equipment operated from the street pavement. Removal equipment shall be Gradall (or similar method), or by hand or a combination of these methods. The method of removal shall be approved by the Engineer prior to commencing any work.
3. Any pavement or pavement related work that is removed shall be immediately disposed of from the area and shall not be stockpiled or stored within the parkway area under any circumstances.
4. When work within the critical root zone is unavoidable and approved by the engineer, TREE PROTECTION SPECIAL shall be provided.

F. Tree Root Protection:

1. Bridging to minimize compaction of tree roots, consisting of, but not limited to, the application of 8 inches of woodchips under the canopy or within critical root zone, whichever is larger, of the protected tree followed by the overlayment of 3/4-inch (minimum) thickness sheets of exterior plywood over the same area. Woodchips shall be removed and grass restored when completed.
2. Bridging to minimize compaction of tree roots, consisting of, but not limited to, the application of 8 inches of woodchips under the canopy or within critical root zone, whichever is larger, of the protected tree followed by the overlayment of 3/4-inch

(minimum) thickness sheets of exterior plywood over the same area. Woodchips shall be removed and grass restored when completed.

Parkway restoration shall be paid for as TOPSOIL FURNISH AND PLACE (PULVERIZED) VARIABLE DEPTH; SEEDING, CLASS 1A; NITROGEN FERTILIZER NUTRIENT; PHOSPHORUS FERTILIZER NUTRIENT; POTASSIUM FERTILIZER NUTRIENT; and EXCELSIOR BLANKET, SPECIAL."

Tree Root Protection will be paid for at the contract unit price per each for TREE PROTECTION SPECIAL, which shall include furnishing, installing, maintaining, and removing this item.

G. Backfilling:

1. Prior to placing the topsoil and/or sod, in areas outside the protection zone, the existing ground shall be disked to a depth no greater than one (1"), unless otherwise directed by the Engineer. No grading will be allowed within the drip-line of any tree unless directed by the Engineer.

H. Damages:

1. In the event that a tree not scheduled for removal is injured such that potential irreparable damage may ensue, as determined by the Roadside Development Unit, the Contractor shall be required to remove the damage tree and replace it on a three to one (3:1) basis, at his own expense. The Roadside Development Unit will select replacement trees from the pay items already established in the contract.
2. The Contractor shall place extreme importance upon the protection and care of trees and shrubs which are to remain during all times of this improvement. It is of paramount importance that the trees and shrubs which are to remain are adequately protected by the Contractor and made safe from harm and potential damage from the operations and construction of this improvement. If the Contractor is found to be in violation of storage or operations within the "tree protection zone" or construction activities not approved by the Engineer, a penalty shall be levied against the Contractor with the monies being deducted from the contract. The amount of the penalty shall be two hundred fifty dollars (\$250.00) per occurrence per day.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL:

Work shall be according to Section 202, except as modified herein:

202.01 Description. Add the following to the end of this Article:

"The work shall be in accordance with the Special Provision for "TRENCHING, BACKFILLING AND COMPACTING" and consists of the removal and appropriate disposal of organic, soft, spongy or otherwise unsuitable soils found at the bottom of open cut trench pipe installations. Work shall also include the protection, replacement, or repair of utilities; and dewatering, including erosion and sedimentation control methods and devices to provide protection to environment from all pumping operations."

CONSTRUCTION REQUIREMENTS

202.03 Removal and Disposal of Surplus, Unstable and Unsuitable Materials and Organic Waste.
Add the following to the end of this Article:

"Where the removal and appropriate disposal of unsuitable materials is required, only material below an elevation one-foot below the bottom of the pipe barrel shall be measured for payment as approved by the Engineer."

202.07 Method of Measurement. Add the following to the end of this Article:

"The work will be measured in the field and computed in cubic yards."

202.08 Basis of Payment. Add the following to the end of this Article:

"The work will be paid for at the contract unit price per cubic yard for REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."

POROUS GRANULAR EMBANKMENT, SUBGRADE:

Effective: September 30, 1985

Revised: August 1, 2008

This work consists of furnishing, placing, and compacting porous granular material to the lines and grades shown on the plans or as directed by the Engineer in accordance with applicable portions of Section 207 of the Standard Specifications. The material shall be used as a bridging layer over soft, pumpy, loose soil and for placing under water and shall conform with Article 1004.05 of the Standard Specifications except the gradation shall be as follows:

1. Crushed Stone, Crushed Blast Furnace Slag, and Crushed Concrete

| <u>Sieve Size</u> | <u>Percent Passing</u> |
|-------------------|------------------------|
| *6 in. (150 mm) | 97 ± 3 |
| *4 in. (100 mm) | 90 ± 10 |
| 2 in. (50 mm) | 45 ± 25 |
| No. 200 (75 µm) | 5 ± 5 |

2. Gravel** and Crushed Gravel

| <u>Sieve Size</u> | <u>Percent Passing</u> |
|-------------------|------------------------|
| *6 in. (150 mm) | 97 ± 3 |
| *4 in. (100 mm) | 90 ± 10 |
| 2 in. (50 mm) | 55 ± 25 |
| No. 4 (4.75 mm) | 30 ± 20 |
| No. 200 (75 µm) | 5 ± 5 |

* For undercut greater than 18 inches (450 mm) the percent passing the 6-inch (150 mm) sieve may be 90 ± 10 and the 4-inch (100 mm) sieve requirements eliminated.

** Not to be used in 30 or 40 year extended life concrete pavement or extended life bituminous concrete pavement (full depth).

The porous granular material shall be placed in one lift when the total thickness to be placed is 2 feet (600 mm) or less or as directed by the Engineer. Each lift of the porous granular material shall be rolled with a vibratory roller meeting the requirements of Article 1101.01(g) of the Standard Specifications to obtain the desired keying or interlock and compaction. The Engineer shall verify that adequate keying has been obtained.

A 3-inch (75 mm) nominal thickness top lift of capping aggregate having a gradation of CA-6 will be required when Aggregate Subgrade is not specified in the contract and Porous Granular Embankment, Subgrade will be used under the pavement and shoulders. Capping aggregate will not be required when embankment meeting the requirements of Section 207 of the Standard Specifications or granular subbase is placed on top of the porous granular material.

Construction equipment not necessary for the completion of the replacement material will not be allowed on the undercut areas until completion of the recommended thickness of the porous granular embankment subgrade.

Full depth subgrade undercut should occur at limits determined by the Engineer. A transition slope to the full depth of undercut shall be made outside of the undercut limits at a taper of 1-foot (300 mm) longitudinal per 1-inch (25 mm) depth below the proposed subgrade or bottom of the proposed aggregate subgrade when included in the contract.

Method of Measurement. This work will be measured for payment in accordance with Article 207.04 of the Standard Specifications. When specified on the contract, the theoretical elevation of the bottom of the aggregate subgrade shall be used to determine the upper limit of Porous Granular Embankment, Subgrade. The volume will be computed by the method of average end areas.

Basis of Payment. This work shall be paid for at the contract unit price per cubic yard (cubic meter) for POROUS GRANULAR EMBANKMENT, SUBGRADE.

The Porous Granular Embankment, Subgrade shall be used as field conditions warrant at the time of construction. No adjustment in unit price will be allowed for an increase or decrease in quantities from the estimated quantities shown on the plans.

TRENCH BACKFILL, SPECIAL:

Description. Trench backfill shall be placed in all trenches crossing driveways, sidewalks, curb and gutter and all proposed and existing roadways, from the top of bedding and covering material to the top of the existing surface. Installation of the trench backfill shall be in accordance with Section 208 of the "Standard Specifications for Road and Bridge Construction," latest edition and the Special Provision for "TRENCHING BACKFILLING AND COMPACTING FOR WATER MAIN" and the detail shown on the Plans.

Trench backfill shall consist of CA-6 compacted in place to 95% of maximum density at optimum moisture as determined by the Modified Standard Proctor Test. The top 12" of the trench up to the bottom of the existing pavement shall be CA-6 crushed stone or crushed gravel, compacted with the same requirements. Granular backfill shall be mechanically compacted in 8-inch lifts from top of the bedding and covering material. No jetting will be allowed.

CA-6 shall be used to fill from the bottom of the existing pavement to the top of the existing pavement until the Class D Patches are installed. CA-6 shall be included in the measurement for payment for TRENCH BACKFILL, SPECIAL. Removal of CA-6 shall be included in the cost of CLASS D PATCHES, of the type and thickness specified. TEMPORARY PAVEMENT shall be installed at locations open to thru traffic and intersections. Removal of temporary pavement shall be included in the cost of CLASS D PATCHES, of the type and thickness specified.

Method of Measurement. Trench backfill for water main will be measured for payment in accordance with the trench detail shown on the Plans and the volume computed in cubic yards. No extra compensation will be due to the Contractor for over-excavation of the trench not approved by the Engineer.

Basis of Payment. This work will be paid for at the contract unit price per cubic yard for TRENCH BACKFILL, SPECIAL.

EXPLORATION TRENCH, SPECIAL:

Work shall be according to Section 213, except as modified herein:

213.01 Description. Revise the Article to read:

"213.01 Description. This work shall consist of excavating a trench at the locations determined by the Engineer for the purpose of locating existing tile lines, gas lines, and/or other utilities within the construction limits of the proposed improvement"

CONSTRUCTION REQUIREMENTS

213.02 General. Revise the Article to read:

"213.02 General. The trench shall be deep enough to expose the utility, and the width of the trench shall be sufficient to allow proper investigation to determine if the utility needs to be replaced.

Any damage to utility shall be repaired by the contractor at the contractor's expense to the satisfaction of the utility owner and the Engineer.

After the trench has been inspected by the Engineer, the excavated material shall be used to backfill the trench. When determined by the Engineer, the exploration trench shall be backfilled

with trench backfill meeting the requirements of these special provisions. This shall be paid for separately at the contract unit price for TRENCH BACKFILL, SPECIAL”.

213.03 Method of Measurement. Revise the Article read:

“**213.03 Method of Measurement.** This work will be measured for payment in place in feet of actual trench constructed.”

213.04 Basis of Payment. Revise this Article to read:

“**213.04 Basis of Payment.** This work will be paid for at the contract unit price per foot (regardless of depth) for EXPLORATION TRENCH, SPECIAL. No additional compensation will be allowed for any delays, inconveniences or damage sustained by the Contractor in performing this work.”

EXCELSIOR BLANKET, SPECIAL:

Work shall be according to Section 251, except as modified herein:

CONSTRUCTION REQUIREMENTS

251.04 Erosion Control Blanket. Revise the first sentence of the article to read:

“**251.04 Erosion Control Blanket.** Erosion control blanket shall be placed using ‘Curlex’ excelsior blanket as manufactured by American Excelsior Company or approved equal.”

Delete Articles 251.04(b) and 251.04(c):

251.05 Method of Measurement. Revise the Article 251.05(b) to read:

“Measured Quantities. This work will be measured for payment in place in square yards of actual surface area covered.”

251.06 Basis of Payment. Revise this Article to read:

“**251.06 Basis of Payment.** This work will be paid for at the contract unit price per square yard for EXCELSIOR BLANKET, SPECIAL.”

TRANSPLANTED SALVAGED TREES:
TRANSPLANTED SALVAGED SHRUBS:

Work shall be according to Section 253 except as modified herein:

253.01 Description. Add the following to the end of this Article:

“The work shall consist of transplanting existing salvaged trees and shrubs shown on the plans.”

253.02 Materials. Add the following to the end of this Article:

"Burlap and twine shall be natural fabrics. No synthetic burlap or twine shall be permitted. Topsoil, mulch, anitdessicants, wire, hose, and twine shall conform to the Standard Specifications and the details on the plans."

CONSTRUCTION REQUIREMENTS

253.15 Plant Care. Add the following to the end of this Article:

"Prior to performing any work, the Contractor shall submit for approval: the name, references, and background of a qualified Transplanting Subcontractor who is a licensed arborist with demonstrated experience in moving trees and shrubs. The Transplanting Subcontractor shall submit a plan for approval with the following information:

- (1) Method of excavating at the time of transplanting.
- (2) Method of containing root balls for various sizes.
- (3) Proposed root ball width and depth for each size tree/shrub.
- (4) Equipment proposed to move trees and shrubs and site routing for all aspects of the operation.
- (5) Transplant schedule.
- (6) Any other details or suggestions which vary from the methods provided.

Season:

Transplanting operation shall occur when the ground is not frozen or otherwise in an unsatisfactory condition for working, after leaf fall and before bud break on deciduous trees and shrubs, unless otherwise determined by the Engineer.

General Methods:

Trees less than 10" and shrubs may be hand dug or machine dug and may be moved by means of a "tree spade". In case of a tree spade, the diameter of the spade must be sufficient to allow for an adequate root as described below.

Ground Preparation:

Transplant location: The new locations to receive transplants shall be staked out for approval prior to digging the trees/shrubs. In all cases, these pits shall be dug and prepared prior to

completion of final digging of transplant trees/shrubs. Pits shall be thoroughly watered on the day of transplanting prior to receiving plants.

The excavated subsoil and topsoil shall be set aside in separate stockpiles for reuse in backfilling. Where, in the opinion of the Engineer, the subgrade material is unsuitable, it shall be removed and replaced with adequate subgrade material and topsoil.

Transplant pit diameter and depth: *Where a "tree spade" is used;* the excavated hole may be made with the same spade used to excavate and remove the tree/shrub, and shall be the same diameter and depth as the root ball of the transplanted tree/shrub.

Where a tree spade is not used; the diameter shall be a minimum of 3 feet greater than the diameter of the root ball. Depth shall be sufficient to ensure that the root ball will sit in its new location on undisturbed soil such that the surface of the root ball will bear the exact relationship to adjacent new finish grades as it did in its original location.

Preparation of Plants:

All precautions customary in good trade practice shall be taken in preparing plants for moving, and workmanship that fails to meet the highest standards will be rejected.

Marking orientation of trees: Prior to transplanting, the Contractor shall tie a flag of cloth or plastic ribbon to a branch to mark the north side of the plant as a guide for positioning the plant in the new location.

Tying of Branches: If necessary, to facilitate positioning of equipment and help avoid injury to the tree/shrub, tying up the branches of low-branched plants using heavy twine or burlap strips is allowable, if approved in advance by the Engineer in consultation with the certified arborist. Each point of contact of twine on tree/shrub trunks or branches shall be protected with burlap.

Crown Pruning: Dead, injured or diseased wood shall be removed in accordance with good horticultural practice. Additional pruning may be required as determined by the Transplanting Subcontractor to preserve aesthetic balance. Any pruning shall preserve the natural character of each plant and shall be done in a manner appropriate to its particular requirements. Any crown pruning shall be done during the transplanting season and may be performed either before or after transplanting, at the Subcontractor's discretion. If done before, additional pruning may be required to correct any damage incurred during the transplanting operation. In no case shall leader branches be removed or harmed.

Transplanting Operation:

Root ball: In all cases, the diameter of the ball of native soil to be preserved intact shall be at least 10 times the diameter of the tree/shrub trunk at breast height (dbh) unless otherwise approved by the Engineer in consultation with the Subcontractor. The depth of the root ball shall be

sufficient to preserve the majority of large roots characteristic of the given tree/shrub growing in that particular soil type as determined by the approved Transplanting Subconsultant in consultation with a Registered Landscape Architect. Unless otherwise specified, the depth shall be approximately 60% of the ball width for root balls up to 6' and a minimum of 8' for root balls greater than 6' in diameter.

Precaution: Exposed roots shall never be allowed to dry out. If for any reason the plant will sit with roots or root ball exposed, roots shall be protected by packing them in moist straw, sphagnum, peat moss, bark or other suitable material and then wrapping with moist burlap.

Where a tree spade is used:

- A tree spade of sufficient size must be used to meet the root ball diameter specifications stated above.
- The approved destination hole shall first be excavated (it is assumed that this shall be with the same spade to be used to move the tree/shrub) and thoroughly watered.
- The tree/shrub shall then be excavated, moved and planted, taking care to avoid damage to tree/shrub branches and trunk. The tree/shrub trunk shall be protected as necessary with burlap or protective padding. The tree/shrub shall be set with the same compass orientation and at the same depth as its original location.
- In a ring 2' wide extending from the edge of the root ball, the top 6" of soil shall be loosened. Mycorrhizal Fungi Mixture shall be evenly spread in this zone at the rate of one packet per square yard and thoroughly incorporated into the loosened layer.
- This zone and the root ball of the tree/shrub shall be watered thoroughly.

Where a tree spade is not used:

- The destination hole shall be prepared to the approved size and depth prior to digging the tree to be transplanted. Topsoil and subsoil shall be set aside in separate piles. The soil surface in the hole shall be thoroughly watered.
- A circle shall be inscribed around each tree to the approved anticipated size of the root ball. Where trees have been previously root pruned, the limit shall be that established at the time of first root pruning, which is 4" further from the trunk than the line of root pruning.
- The ground shall be cleanly cut along the ball limit with a saw, sharp spade or other means to a minimum depth of 1".

- A trench shall be dug outside and adjacent to this limit to a minimum width of 2' and as deep as necessary to shape a root ball of the approved size.
- The root ball shall be trimmed to proper size and shape.
- Loosening of the soil around the roots shall be avoided by cutting remaining woody roots cleanly with a sharp spade, saw, shears or other approved means. Extreme care shall be exercised to preserve any new fibrous roots which have developed in root-pruned zones.
- Root balls shall be securely contained by: wrapping in burlap secured tightly with "drum-laced" twine; a wooden "soil crate"; or other approved means which shall ensure a solid, secure root ball. The lower 4' of tree trunk shall be wrapped in burlap if it is anticipated that any twine will be in contact with the trunk.
- Trees shall be moved by crane, winch or other approved means per the Subcontractor's approved plan to new location. Plants shall be handled so that the ball will not be loosened or broken and shall be set with same compass orientation and at the same relative elevations as in their original location.
- The pit around the ball shall be backfilled, beginning with stockpiled subsoil. After the soil has been thoroughly firmed around the lower half of the ball, any burlap shall be cut away from upper half of the ball and the remaining burlap adjusted to prevent the formation of air pockets. Soil shall be firmed at 6" intervals and thoroughly settled with water the same day of planting, to within 8" of the finished grade.
- Topsoil shall then be added from on-site stockpiles to within 4" of the finished grade.
- Mycorrhizal Fungi Mixture shall be evenly spread on the surface of the excavated area at the rate of one packet per square yard. Excavated areas shall be brought to grade with stockpiled topsoil, and the top 8" shall be thoroughly mixed to incorporate the Mycorrhizal Fungi Mixture.
- The planting area including the root ball of the tree shall be watered thoroughly.

Finishing Surface After Backfilling: The Contractor shall cultivate and rake over finished planting areas and shall leave them in an orderly condition.

Staking: All staking shall be done immediately after planting and all stakes and wire maintained. Plants shall stand plumb after staking. Stakes shall be placed outside of the root ball and shall be driven a minimum of 3' into the ground. Stakes shall be fastened to the tree/shrub with wire protected by hose and shall be set plumb unless otherwise determined by the Engineer. Each tree/shrub shall have four (4) stakes.

Spraying with Anti-Desiccant: The Contractor shall spray all Plant Material with an antidesiccant, using an approved power sprayer to apply an adequate film over trunks, branches, twigs, and/or foliage. Anti-desiccants shall be delivered in containers of the manufacturer, shall be mixed according to directions, and applied to plant material within forty-eight (48) hours of each day's planting that is completed.

Mulching: The Contractor shall place 4" of mulch over each tree/shrubs entire transplant area to the limit of disturbance.

Maintenance:

The Contractor shall maintain all transplanted areas within the limits of this contract in accordance specifications and a minimum one year period of establishment. At the expiration of the period of establishment, unless specifically determined by the Engineer, the Contractor shall leave the entire area cultivated and weed free and shall remove all stakes, burlap, wires and hoses.

Maintenance guarantee:

The Contractor shall execute and deliver to the Village, before final payment will be issued, a written warranty, in a form satisfactory to the Village, which guarantees that the work is in accordance with the Contract Documents and will not be defective. This warranty shall guarantee this work for a period of 1-year from the date of acceptance of the work and final payment by the Village.

If within this guarantee period, any work is found to be defective, as determined by the Village, the Contractor shall promptly, without cost to the Village, correct or repair such defective work, or remove and replace the defective work in accordance with the Special Provisions for the items in question.

The Contractor shall furnish a warranty bond in an amount equal to fifty percent (50%) of the contract amount, or \$25,000, whichever is greater, by a surety satisfactory to the Village to guarantee Contractor's warranty to repair defective work."

253.16 Method of Measurement. Add the following to the end of this Article:

"This work will be measured for payment as each per tree or shrub."

253.17 Basis of Payment. Add the following to the end of this Article:

This work will be paid for at the contract unit price per each for TRANSPLANTED SALVAGED TREES or TRANSPLANTED SALVAGED SHRUBS.

TEMPORARY EROSION CONTROL SEEDING:

Work shall be according to Section 280, except as modified herein:

CONSTRUCTION REQUIREMENTS

280.05 Maintenance. Add the following to the end of this Article:

“Maintenance of the temporary erosion control seeding shall be included in this Pay Item.”

280.07 Method of Measurement. Add the following to the end of this Article:

“This work will be measured for payment in pounds.”

280.08 Basis of Payment. Add the following to the end of this Article:

“This work will be paid for at the contract unit price per pound for TEMPORARY EROSION CONTROL SEEDING.”

INLET FILTERS:

Work shall be according to Section 280, except as modified herein:

CONSTRUCTION REQUIREMENTS

280.05 Maintenance. Add the following to the end of this Article:

“Maintenance of inlet filters shall be included in this Pay Item.”

280.07 Method of Measurement. Add the following to the end of this Article:

“This work will be measured for payment per each inlet filter.”

280.08 Basis of Payment. Add the following to the end of this Article:

“This work will be paid for at the contract unit price per each for INLET FILTERS.”

MULCH, METHOD 1:

Work shall be according to Section 280, except as modified herein:

CONSTRUCTION REQUIREMENTS

280.05 Maintenance. Add the following to the end of this Article:

“Maintenance of mulch, method 1 shall be included in this Pay Item.”

280.07 Method of Measurement. Add the following to the end of this Article:

“This work will be measured for payment in acres.”

280.08 Basis of Payment. Add the following to the end of this Article:

“This work will be paid for at the contract unit price per acre for MULCH, METHOD 1.”

MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS:

Work shall be according to Section 406, except as modified herein:

CONSTRUCTION REQUIREMENTS

406.05 Preparation, Priming and Leveling of Brick, Concrete, HMA or Aggregate Bases. Add the following to the end of this Article:

“All base preparation shall be included in this Pay Item.”

406.13 Method of Measurement. Add the following to the end of this Article:

“This work will be measured for payment in tons.”

406.14 Basis of Payment. Add the following to the end of this Article:

“This work will be paid for at the contract unit price per ton for MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS.”

TEMPORARY RAMP:

Work shall be done in according to Sections 406 and 440, except as modified herein:

406.01 Description. Add the following to the end of this Article:

“This work shall consist of installing and removing temporary ramps to transition from milled pavement surfaces or newly installed pavement to existing pavement and/or curb and gutter surfaces.”

CONSTRUCTION REQUIREMENTS

406.09 Approaches, Intersections, and Entrances. Add the following to the end of this Article:

“Remove and correctly dispose of temporary ramps installed to transition from milled pavement surfaces or newly installed pavement to existing pavement and/or curb and gutter surfaces.”

406.13 Method of Measurement. Add the following to the end of this Article:

“This work will be measured for payment in place in square yards of installing each temporary ramp. Temporary ramp removal shall not be measured for payment.”

406.14 Basis of Payment. Add the following to the end of this Article:

“This work will be paid for at the contract unit price per square yard for TEMPORARY RAMP including removal of the temporary ramp prior to resurfacing.”

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT:

Work shall be according to Section 423, and the Detail in the plans, except as modified herein:

423.01 Description. Add the following paragraph to the end of this Article:

“The work shall consist of constructing Portland cement concrete driveway pavement on a 4” aggregate base course with 6” x 6” welded wire fabric.”

CONSTRUCTION REQUIREMENTS

423.06 Placing and Finishing. Add the following to the end of this Article:

“6” x 6” welded wire fabric shall be installed in Portland cement concrete driveway pavement. The Portland cement concrete driveway pavement shall be installed on a 4-inch thick CA-6 aggregate base course. The welded wire fabric and aggregate base course shall be included in this Pay Item.”

423.10 Method of Measurement. Add the following paragraph to the end of this Article:

“The work will be measured for payment and the area computed in square yards.”

423.11 Basis of Payment. Add to the end of this Article to read:

"The work will be paid for at the contract unit price per square yard for PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, of the thickness specified."

DETECTABLE WARNINGS:

Work shall be according to Section 424, except as modified herein:

CONSTRUCTION REQUIREMENTS

424.09 Detectable Warnings. Add the following to the end of this Article:

"Detectable warnings shall be cast-in-place systems. Stamped concrete will not be allowed. The color of the detectable warning surface shall be brick red.

Acceptable manufactures:

1. Detectable Warning Systems, Inc (EZ Set Polymer Concrete Panel),
2. Armor Tile (Cast in Place systems),
3. or approved equal."

424.12 Method of Measurement. Add the following paragraph to the end of this Article:

"Detectable warnings will be measured for payment in place and the area computed in square feet."

424.13 Basis of Payment. Add to the end of this Article to read:

"Detectable warnings will be paid for at the contract unit price per square foot for DETECTABLE WARNINGS."

COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT:

Work shall be according to Sections 440 and 606 and the Detail provided in the Plans, except as modified herein:

440.01 & 606.01 Description. Revise the Articles to read:

"This work shall consist of the removal and replacement of existing curb and gutter at the locations shown on the Plans or as determined by the Engineer. No curb and gutter removal and replacement shall be less than 10 feet. Not all locations may be shown in the plans.

The purpose of this work is to replace curb and gutter that is damaged and/or requires replacement to improve the street drainage and/or match Village Standards. The replacement curb

and gutter shall match the existing curb and gutter unless otherwise determined by the Engineer. The Village reserves the right to remove one type and replace with another type of curb and gutter.

This work shall include all sawcutting; pavement removal for forming purposes; excavating; installing a 4-inch CA-6 aggregate base course; reinforcing bars installed across utility trenches; backfilling in front of the curb with Class SI Concrete; backfilling behind the curb to the top of the proposed curb with sand or other material approved by the Engineer; dowel bars at the connection of existing to replaced curb and gutter, construction and expansion joints; installation of contraction joints at 25-foot intervals; sealing of all joints with hot-poured or cold-poured joint sealer; and removing any excess backfill behind the proposed curb just prior to parkway restoration and restoring the parkway with pulverized topsoil to a minimum thickness of 4 inches, excelsior blanket, special, fertilizer and seeding, class 1A."

CONSTRUCTION REQUIREMENTS

440.03 General. Revise the first two paragraphs of this Article to read:

"The Contractor shall form a perpendicular straight joint by full-depth machine sawing at the limits of the curb and gutter removal. Any damage done to the existing curb and gutter to remain in place shall be repaired or removed and replaced by the Contractor at his/her own expense, as determined by the Engineer.

It is the responsibility of the Contractor to determine the type and thickness of the existing curb and gutter to be removed, and the extent to which they are reinforced. No additional compensation will be allowed because of variations from the assumed type(s) or thickness(s) or from the type(s) or thickness(s) shown on the Plans, or for variations in the amount of reinforcement. Curb and gutter adjacent to the pavement shall be 10 inches thick or match the existing pavement thickness, whichever is greater.

The minimum length of removal and replacement is 10 feet."

606.04 Excavation. Add the following paragraphs to the end of this Article:

"A 4-inch thick CA-6 aggregate base course shall be placed on compacted subgrade and compacted under the proposed curb and gutter as shown on the detail provided in the Plans. The 4-inch thick CA-6 aggregate base course shall be included in this Pay Item".

Removal of the existing pavement will be required in order to install a front face form. The area between the edge of the existing pavement and the face of the new gutter shall be cleaned of all loose material and then filled with Class SI concrete to a minimum 6-inch width, 4½" below the top of the proposed gutter flag. Driveway locations where curb and gutter is removed and replaced is to be backfilled and compacted with granular material until the driveway is repaired or replaced. Concrete driveway aprons shall not be removed for curb and gutter forming purposes unless determined by the Engineer."

606.07 Concrete Gutter and Curb and Gutter. Add following to the fourth paragraph of this Article:

“Contraction joints shall be provided at uniform intervals not to exceed 25 feet. Construction joints with dowel bars shall be provided at the end of a day’s work or when the placing of concrete is held up for thirty (30) minutes or more and the construction joints shall match expansion joints. Expansion joints shall be 1-inch thick with two No. 6 (3/4”) smooth epoxy coated bars with greased cap and shall be constructed 5 feet either side of any structure that is located within the curb line, at the beginning and ending of a radius, at the end of each concrete placement and at intervals not to exceed 60 feet as determined by the Engineer. All joints shall be sealed with either hot-poured or cold-poured joint sealer, meeting the approval of the Village or Engineer. All joints shall be cleaned and dry prior to sealing. Hot-poured sealer shall comply with ASTM D 3405 and cold-poured sealer shall comply with ASTM D 1850.

Install two (2) 10-foot No. 4 (1/2-inch) reinforcing bars, on all utility crossings. Reinforcing bars shall extend 5 feet beyond the each edge of all utility crossings (existing or proposed).

Portions of existing curb and gutter within the project limits are painted. If painted curb and gutter requires removal and replacement, the replacement curb shall be painted to match the color of the curb and gutter to be removed. Samples of the paint shall be provided to the Engineer prior to application to ensure compliance with the manufactures recommendations. No painting shall occur until the paint and application is approved by the Village and Engineer. Painting shall be included in this Pay Item.”

606.13 Backfill. Revise this Article to read:

“**606.13 Backfill**. After the concrete has obtained the specified strength or when determined by the Engineer, the space in front of the construction shall be filled with Class SI concrete. The space in front of construction shall be filled with Class SI concrete to 4½ inches below the gutter flag. The space in back of the construction shall be backfilled to the top of the proposed curb with sand or other material approved by the Engineer, and neatly graded to the satisfaction of the Engineer. Temporary erosion control measures shall be provided when final parkway restoration is not completed immediately. Prior to final parkway restoration, excess backfill material behind the curb shall be removed to a minimum of 4 inches. The final restoration, consisting of a minimum of 4 inches of pulverized topsoil and salt tolerant sod, shall be included in this Pay Item.”

606.14 Method of Measurement. Add the following paragraph to the end of this Article:

“The measurement for payment will be without respect to curb and gutter type or depth. The Engineer will measure the curb and gutter as marked for removal and replacement prior to the removal of the existing curb and gutter. The measurement, as marked, will be the final payment quantity and should be verified by the Contractor prior to the removal.”

440.08 & 606.15 Basis of Payment. Replace these articles with the following:

"This work will be paid for at the contract unit price per foot for COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT. The cost of over cutting and filling behind and in front of the curb and gutter shall also be included in this contract unit price.

DUCTILE IRON WATER MAIN:

Description. This work shall consist of furnishing all labor, materials and equipment necessary to install ductile iron water main, of the size and joint type specified to the alignment, grade and locations shown on the Plans.

Water main shall be ductile iron, class 52, bituminous seal coated pipe and cement mortar lining per AWWA C104/ANSI 21.4 (Griffen, Clow, US Pipe or approved equal), with mechanical or rubber gasket push-on joints "Bell-Tite" per ANSI A21.11 (AWWA C111 and AWWA C600). All materials shall be made in the United States.

All mechanical joint fittings which deflect the flow 11-1/2 degrees or greater shall have a thrust block. Thrust blocks shall be pre-cast concrete blocks of the dimensions shown on the drawings. They shall also be provided with Meg-A-Lug Retaining Glands for the appropriate diameter. Unless otherwise shown on the Drawings, each pipe joint on both sides of a valve or fitting shall be restrained joint.

The flanged fittings requiring bases shall have the base flange machined and drilled in accordance with AWWA C110.

Polyethylene encasement shall be wrapped and taped around all ductile iron pipe and fittings. The polyethylene material shall be Class C (black) in conformance with the requirements of ANSI A21.5 and AWWA C-105. The minimum nominal thickness shall be 8 mils (0.008 inches) and the minus 0.008" thickness tolerance shall not exceed 1-percent of this nominal thickness. The wrap shall be Griffen, Clow or equal. All material shall be manufactured in the United States.

CONSTRUCTION REQUIREMENTS

Ductile Iron Pipe: The Contractor shall furnish and install water main in accordance with the Plans, the requirements stated herein, and Divisions II and IV of the "Standard Specifications for Water and Sewer Main Construction in Illinois," latest edition and applicable ordinances of the Village of Addison. The section of the "Standard Specifications for Water and Sewer Main Construction in Illinois" relating to this item are as follows:

DIVISION II EXCAVATION AND CLEAN UP

Section 20 – Excavation and Backfill for Underground Conduits
Section 21 – Restoration of Surfaces

Section 22 – Finishing and Clean Up for Underground Conduits
Section 40 – Pipe for Water Mains and Service Connections
Section 41 – Pipe Installation for Water Mains

The following requirements are in addition to the above referenced construction standards:

Open Excavation: All trenches located in street pavement shall include full depth saw cutting of existing pavement prior to excavation of pavement and trench materials. This work is included in the ductile iron water main Pay Item. All excavations located in a street pavement shall be backfilled by the end of the workday and shall not be left open overnight. Trenches not located in a pavement may be left open only if surrounded by construction fence and barricades with flashing lights.

Granular Bedding: The Contractor shall furnish, install and compact granular bedding around the pipe as shown on the detail in the Plans for entire length of the pipe in accordance with the detail shown on the plans. Bedding material shall meet the gradation of IDOT CA-6. The bedding shall be compacted as indicated on the Plans. The cost of the bedding shall be included in the water main.

Ductile Iron Fittings: The Contractor shall install ductile iron fittings in accordance with the DUCTILE IRON WATER MAIN FITTINGS special provision.

Polyethylene Encasement: The Contractor shall furnish and install polyethylene encasement in accordance with the Plans, the requirements stated herein, the "Standard Specifications for Water and Sewer Main Construction in Illinois," latest edition and applicable ordinances of the Village of Addison. The polyethylene liner shall prevent contact between the pipe and the surrounding backfill and bedding material but is not intended to be a completely air and water tight enclosure. Overlaps shall be secured by use of polyethylene tape capable of holding polyethylene liner in place until backfilling operations are completed. The encased pipe shall be lowered into the trench using a sling that will not tear the polyethylene liner.

Wrap all water mains, fittings, valves, fire hydrant leaders, fire hydrants, and service lines. Wrap copper service lines to a point 3 feet from the center of the water main. Do not block fire hydrant weep hole.

Testing and Disinfection: Install new water main but do not install corporation stops, service lines, curb stops, or service boxes. Conduct pressure test, leakage test; and disinfection of new water main; flush main; and after acceptance for use, put water main into service (while existing main continues to function): Install corporation stops, curb stops, and new service boxes; and connect new service box to existing service lines.

Pressure Tests: All piping shall be subject to pressure tests as specified herein. After the pipe has been laid and partially backfilled, the pipe shall be subjected to a hydrostatic pressure equal to 150 psi at the lowest elevation of the pipe section. The duration of each pressure test shall

be for a period of two hours, and the pressure shall not drop more than 5 psi over this duration. The basic provisions of AWWA C-600 and C-603 shall apply.

Each section of pipe to be tested, as determined by the Village, shall be slowly filled with water and the specified test pressure shall be applied by means of a pump connected to the pipe in a satisfactory manner. The pump pipe connection and all necessary apparatus including gauges and meters shall be furnished by the Contractor. Before applying the specified test pressure, all air shall be expelled from the pipe. To accomplish this, taps shall be made, if necessary, at points of highest elevation and afterwards tightly plugged. Any cracked or defective pipes, fittings, valves or hydrants discovered in consequence of this pressure test shall be removed and replaced by the Contractor with sound material and the test shall be repeated until satisfactory to the Engineer. Provisions of AWWA C-600 and C-603, where applicable, shall apply.

Leakage Test: After completion of the pressure test, a leakage test shall be conducted to determine the quantity of water lost by leakage under the specified test pressure. Test pressure is defined as the maximum operating pressure of the section under test and is based on the elevation of the lowest point in the line or section under test corrected to the elevation of the test gauge. Applicable provisions of AWWA C-600 and C-603 shall apply. Duration of each leakage test shall be a minimum of one (1) hour in addition to the pressure test periods. A table of allowable leakage is listed below:

Allowable Leakage for Pipeline per 1,000 ft – gallons per hour

| Avg. Test Pressure | <u>Pipe Size in Inches</u> | | | | | |
|--------------------|----------------------------|----------|-----------|-----------|-----------|-----------|
| | <u>6</u> | <u>8</u> | <u>12</u> | <u>14</u> | <u>16</u> | <u>20</u> |
| <u>PSI</u> | | | | | | |
| 200 | 0.64 | 0.85 | 1.28 | 1.49 | 1.70 | 2.12 |
| 175 | 0.60 | 0.80 | 1.19 | 1.39 | 1.59 | 1.98 |
| 150 | 0.55 | 0.74 | 1.10 | 1.29 | 1.47 | 1.84 |
| 125 | 0.51 | 0.67 | 1.01 | 1.18 | 1.34 | 1.68 |
| 100 | 0.45 | 0.60 | 0.90 | 1.05 | 1.20 | 1.50 |
| 80 | 0.41 | 0.54 | 0.81 | 0.94 | 1.08 | 1.35 |
| 60 | 0.35 | 0.47 | 0.70 | 0.82 | 0.94 | 1.14 |

Disinfection: All water main and piping shall be flushed and satisfactorily disinfected in accordance with the “Standard Specifications for Water and Sewer Main Construction in Illinois”. The method of applied chlorine shall be approved by the Engineer and/or Village. Water sampling procedures; and the chain of custody and sample testing procedures; shall be approved by the Village and Engineer.

Method of Measurement. This work will be measured in lineal feet along the centerline of the pipe, and the measurement shall extend through fittings and valves.

Special Provisions
070142.40

Village of Addison
Mill Road and Army Trail Boulevard STP Improvements
Section No.: 09-00098-00-RS
Project No.: M-9003(474)

Basis of Payment. This work will be paid for at the contract unit price per lineal foot for DUCTILE IRON WATER MAIN or DUCTILE IRON WATER MAIN RESTRAINED JOINT TYPE, of the pipe sizes, joint type and material specified, regardless of depth, which price shall include all accessories required, including thrust blocks, polyethylene encasement, Meg-A-Lugs, excavation, bedding and initial pipe covering, testing and disinfection.

10-inch diameter and 8-inch diameter ductile iron water main shall be paid for as DUCTILE IRON WATER MAIN, regardless of the location and installation of restrained joint pipe. Locations for restrained joint pipe are as shown on the Drawings and shall be as specified herein.

6-inch diameter and 4-inch diameter ductile iron water main shall be paid for as DUCTILE IRON WATER MAIN RESTRAINED JOINT TYPE as all 6-inch and 4-inch ductile iron pipe is required to have restrained joints.

Water main fittings shall be paid for separately as DUCTILE IRON WATER MAIN FITTINGS.

Trench backfill with special granular materials above the granular pipe bedding and cover material shall be paid for separately as TRENCH BACKFILL, SPECIAL.

WATER SERVICE LINE:

Description. The work of this Pay Item shall be in accordance with Section 562 and the Special Provision for "TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN" and the detail on the Drawings, and shall consist of water service pipe complete in place by open cut or augering/moling (trenchless) methods, including saw-cutting, removal and disposal of existing pavements; excavation; removal and disposal of waste excavated materials; shoring; bracing; trench dewatering, including erosion and sedimentation control for discharge resulting from all pumping operations; protection, replacement or repair of utilities; installation of service pipe, bedding and covering of pipe; connections to existing building service pipe, including unions, reducers, couplings and fittings; backfilling with excavated material or granular backfill, and complete surface restoration.

Granular backfill, as required, shall be included in this item and shall be in accordance with the Special Provision for GRANULAR BACKFILL. Granular backfill will not be paid for separately when placed in open cut trenches for water service pipe.

Permanent Markers: The Contractor shall install permanent markers in the concrete curb identifying the points where the curb crosses the service trench. A permanent marker shall be embedded in the vertical or horizontal face of the curb at all crossing points before the concrete hardens. The marker shall be the letter "W" and shall measure 3 inches in height. Materials may be metal, plastic, or other material approved by the Engineer. If service line is installed under an existing curb, the Contractor shall saw cut into the concrete curb a "W" to mark the location of the water service line. This marker shall measure at least 3 inches in height.

Method of Measurement. The work shall be measured in lineal feet along the centerline of the pipe, from the centerline of the water main to the termination of the service pipe at the new service box.

Basis of Payment. The work shall be paid for at the Contract Unit Price per lineal foot for WATER SERVICE LINE of the size indicated. Water service pipe may be installed by trenchless methods, at the Contractor's option, at no change to the Contract Unit Price per lineal foot for WATER SERVICE LINE.

FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX:

Description. This work shall consist of furnishing all labor, materials and equipment necessary to install fire hydrants with auxiliary valves and boxes at locations shown on the Plans in accordance AWWA Standard C502, the "Standard Specifications for Water and Sewer Main Construction in Illinois," latest edition and applicable ordinances of the Village of Addison.

All hydrants shall be Eddy F-2640 with a breakaway flange (no equals). Hydrants shall be 6" with 5¼" main valve opening, two 2½" hose nozzles and one 4½" pumper nozzle with National Standard threading. Hydrant shall have safety stem couplings and safety flange. Hydrants shall open counterclockwise and shall be furnished with a mechanical joint inlet. Hydrants shall have field locking gaskets and Meg-A-Lugs. All hydrants shall be painted yellow (Dura King-457-57 School Bus Yellow Truck-Tractor Implement Enamel). Hydrants shall include an auxiliary valve with box along with a connection to the water main. All materials shall be manufactured in the United States.

All nozzles shall be fitted with cast iron threaded caps securely connected to the fire hydrant with 1/8-inch thick chain. An operating nut on the end of the cap shall be of the same design and proportions as the fire hydrant stem nut. Caps shall be threaded to fit the corresponding nozzles and fitted with suitable gaskets for positive water tightness under pressure tests. After testing, all nozzles and caps shall have their threads greased.

A 6-inch auxiliary valve shall be provided for each hydrant. The auxiliary valve shall be connected directly to the water main with a locking hydrant tee in non-paved areas only. In paved areas, the fire hydrant shall be connected by using ductile iron water main with Field-Lok gaskets and Meg-A-Lug connections. The auxiliary valve shall be a resilient wedge gate valve. The ends of the gate valve shall consist of flanged or mechanical joints. The valve shall be designed for a minimum pressure of 175 psi. Auxiliary valves shall be provided with a cast iron valve box. Auxiliary valves shall be manufactured by Mueller, Clow, Waterous or approved equal. All fittings shall be installed with field lock gaskets or Meg-A-Lugs.

Cast iron valve boxes with the word "WATER" imprinted in the lid shall be used. All valve boxes shall be an adjustable Bimham & Taylor, Central States Foundry, Tyler, or approved equal. All work shall be completed in accordance with the drawings and the requirements stated herein.

CONSTRUCTION REQUIREMENTS

The hydrant and auxiliary valve and box shall be installed in accordance with AWWA C600. The Contractor shall inspect all fire hydrants in the field upon delivery to the job site to insure proper operation before installation. The hydrant shall be set on a concrete block, 12" x 12" x 8" in size, to ensure a firm bearing for the hydrant base. Additional concrete blocks a minimum of 12 inches thick shall be placed in the back of the hydrant. The concrete blocks shall extend from the hydrant to undisturbed soil. Wood wedges may be used to ensure a solid fit. Care shall be taken to ensure that weep holes are not covered by the concrete blocks. Cast-in-place concrete blocking will not be allowed. A minimum of one (1) cubic yard of washed gravel shall be placed at and around the base of the hydrant to insure proper drainage of the hydrant after use. A layer of filter fabric shall be installed over the gravel drain field before backfilling begins. Fire hydrants shall be set in a vertical position, and staked in place to insure the hydrant stays in a permanent vertical position. All hydrants shall be adjusted to finish grade with the closest edge of the hydrant no closer than 3 feet from the back of curb and no more than 4 feet. Hydrants shall be located a minimum of 6 feet away from the edge of any existing or proposed driveway. Centerline of the pumper nozzle shall be 18-24 inches above finish grade. The break flange is to be no higher than 3 inches above finish grade. The base of the hydrant, valve, and pipe shall be wrapped with polyethylene in accordance with the DUCTILE IRON WATER MAIN special provision.

A screw type cast iron valve box shall be set in position during the backfilling so that it will be in vertical alignment to the gate valve operating stem. The lower part of the unit shall be installed on concrete blocks in such a manner as to not rest directly on the body of the gate valve, or on the water main. The upper part of the valve box shall be placed and adjusted to finish grade. CA-6 crushed and compacted stone shall be utilized to backfill all around the operating nut on all valves and valve boxes to prevent mud from penetrating the valve box.

Method of Measurement. The work will be measured for payment in place for each fire hydrant with auxiliary valve and valve box installed.

Basis of Payment. This work will be paid for at the contract unit price for each FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX, which includes all as described herein, including excavation, backfill, all pipe between the auxiliary valve and hydrant, and up to 4 lineal feet of water main pipe beyond the auxiliary valve.

Water main pipe between the mainline and the auxiliary valve, beyond the 4 feet included in the hydrant installation, shall be paid for separately as DUCTILE IRON WATER MAIN RESTRAINED JOINT TYPE, of the type and size specified in accordance with the DUCTILE IRON WATER MAIN special provision.

The water main tee placed in order to install the hydrant lateral to the mainline shall be paid for separately in accordance with the DUCTILE IRON WATER MAIN FITTINGS special provision.

CONTROLLED LOW-STRENGTH MATERIAL:

Description. The work of this Pay Item shall be in accordance with Section 593 and the Special Provision for "TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN" and consists of backfilling open cut trenches with controlled low-strength material where the trenches cross side streets, if and where directed by the Engineer, from the top of the pipe bedding and covering material to the elevation of the adjacent existing pavement, and extending 2 feet beyond the edges of pavement, complete in place, including installation and removal of forms; and cleanup.

This Pay Item includes installation and subsequent grinding of the controlled low-strength material to function as a driving surface until bituminous or concrete pavement is installed.

Method of Measurement. The work will be measured in cubic yards, based on approved load tickets.

Basis of Payment. The work will be paid for at the Contract Unit Price per cubic yard for CONTROLLED LOW-STRENGTH MATERIAL.

MANHOLES, SANITARY, WITH TYPE 1 FRAME, CLOSED LID:

Work shall be according to Section 602, except as modified herein:

602.01 Description. Add the following to the end of this Article:

"This work shall consist of constructing sanitary manholes to the finished elevation as determined by the Engineer".

602.02 Materials. Revise Notes 2 and 3 at the end of this Article to read:

"Note 2. High Density Polyethylene (HDPE) Plastic Adjusting Rings will not be allowed.

Note 3. Riser rings fabricated from recycled rubber must be used to adjust the frames and grates of drainage and utility structures up to a maximum of 50 mm (2 in.). They shall be installed and sealed underneath the frames according to the manufacturer's specifications.

Recycled rubber products shall consist of no less than 80 percent by weight recycled rubber. The riser shall meet or exceed the following when maintained at $23 \pm 2^{\circ}\text{C}$ ($73 \pm 3^{\circ}\text{F}$) for at least 24 hours prior to and during testing.

| Physical Property | Test Standard | Value |
|--------------------|------------------------|--|
| Density | ASTM C 642-90 | 1.10 ± 0.034 g/cu cm (68.63 ± 2.11 lb/cu ft) |
| Durometer Hardness | ASTM D 2240-97 Shore A | 72 ± 6^1 |

| Physical Property | Test Standard | Value |
|---|---|---------------------|
| Compression Deformation under 1000 kPa (145 psi) | ASTM D 575 –Test Method B Test of Specified Force | 9 ± 4% |
| Compression Set | ASTM D 395 – Illinois Modified Test Method B Compression Set under Constant Deflection in Air | 5 ± 3% ² |
| Weathering (70 hrs at 70 °C (158 °F)) Hardness retained | ASTM D 573 | 98%, minimum |
| Freeze/thaw when exposed to deicing chemicals | ASTM C 672-91 | 3% loss, maximum |

¹ Average of three tests over a 28 mm (1.12") diameter sample.

² Samples compressed to 75 percent of initial height.

Recycled rubber adjusting rings shall have no void areas, cracks, or tears, and have no effects due to exposure to ultraviolet light. The actual diameter or length shall not vary more than 3 mm (0.125") from the specified diameter or length. Variations in height are limited to ± 1.6 mm (0.063") for parts up to 50 mm (2")."

CONSTRUCTION REQUIREMENTS

602.11 Furnishing and Placing Castings. Add the following to the end of this Article:

"An external frame seal shall be installed on all sanitary manholes.

The External Frame seal shall consist of the following:

- A. Provide frame seals consisting of a flexible external rubber sleeve and extension and stainless steel compression bands.
- B. Rubber sleeve and extension:
 1. Provide rubber sleeve and extension complying with ASTM C923.
 2. Comply with a minimum 1500 psi tensile strength, maximum 18 percent compression set and a hardness (durameter) of 48±5.
 3. Provide sleeve with a minimum thickness of 3/16-inch and unexpanded vertical heights of 6 or 9 inches.
- C. Provide extension having a minimum thickness of 3/16-inch.
- D. Compression band:
 1. Provide compression band to compress the sleeve against the manhole.
 2. Use 16 gauge stainless steel conforming to ASTM A240 Type 304 with no welded attachments and having a minimum width of 1-inch.
 3. Make a watertight seal having a minimum adjustment range of 2 diameter inches.
 4. Provide stainless steel screws, bolts, and nuts conforming to ASTM F593 and 594, Type 304.

- E. Acceptable products:
 - 1. Cretex Specialty Products.
 - 2. Or approved equal.

The External Frame Seal shall be installed as follows:

- A. Install external rubber gasket on the manhole frame and chimney.
 - 1. Provide watertight gasket to eliminate leakage between the frame and each adjusting ring down to and including cone section.
- B. Clean surface and prepare the lower 2 inches of the manhole frame and exterior of all adjusting rings and cone section/corbel surfaces.
 - 1. Realign frame on adjusting rings or corbel as required.
- C. Repair and apply mortar grout to the adjusting rings as required to provide a smooth, circular surface for the rubber gasket.
- D. Install rubber gasket in accordance with manufacturer's recommendations.
 - 1. Field verify for suitable dimensions and layout before installation.
 - 2. Utilize sealing caulk where required.
- E. Test installation by flooding area around the manhole with water before backfilling and surface restoration.
 - 1. Gaskets are required to provide watertight seal at openings between the frame and adjusting rings and between adjacent adjusting rings down to the cone/corbel section.
 - 2. Reinstall and retest failing gaskets at no additional cost to Owner.

Method of Measurement. The work will be measured for payment in place for each sanitary manhole installed.

602.16 Basis of Payment. Add the following to the end of this Article:

"This work shall be paid for at the contract unit price per each for MANHOLES, SANITARY, WITH TYPE 1 FRAME, CLOSED LID."

CATCH BASINS TO BE ADJUSTED:

Work shall be according to Section 602, except as modified herein:

602.01 Description. Add the following to the end of this Article:

"This work shall consist of adjusting catch basins to the finished elevation as determined by the Engineer".

602.02 Materials. Revise Notes 2 and 3 at the end of this Article to read:

"Note 2. High Density Polyethylene (HDPE) Plastic Adjusting Rings will not be allowed.

Note 3. Riser rings fabricated from recycled rubber must be used to adjust the frames and grates of drainage and utility structures up to a maximum of 50 mm (2 in.). They shall be installed and sealed underneath the frames according to the manufacturer's specifications.

Recycled rubber products shall consist of no less than 80 percent by weight recycled rubber. The riser shall meet or exceed the following when maintained at 23 ± 2°C (73 ± 3°F) for at least 24 hours prior to and during testing.

| Physical Property | Test Standard | Value |
|---|---|---|
| Density | ASTM C 642-90 | 1.10 ± 0.034 g/cu cm (68.63 ± 2.11 lb/cu ft) |
| Durometer Hardness | ASTM D 2240-97 Shore A | 72 ± 6 ¹ |
| Compression Deformation under 1000 kPa (145 psi) | ASTM D 575 – Test Method B Test of Specified Force | 9 ± 4% |
| Compression Set | ASTM D 395 – Illinois Modified Test Method B Compression Set under Constant Deflection in Air | 5 ± 3% ² |
| Weathering (70 hrs at 70 °C (158 °F)) Hardness retained | ASTM D 573 | 98%, minimum |
| Freeze/thaw when exposed to deicing chemicals | ASTM C 672-91 | 3% loss, maximum |

¹ Average of three tests over a 28 mm (1.12") diameter sample.

² Samples compressed to 75 percent of initial height.

Recycled rubber adjusting rings shall have no void areas, cracks, or tears, and have no effects due to exposure to ultraviolet light. The actual diameter or length shall not vary more than 3 mm (0.125") from the specified diameter or length. Variations in height are limited to ± 1.6 mm (0.063") for parts up to 50 mm (2")."

CONSTRUCTION REQUIREMENTS

Method of Measurement. The work will be measured for payment in place for each catch basin adjusted.

602.16 Basis of Payment. Add the following to the end of this Article:

"This work will be paid for at the contract unit price per each for CATCH BASINS TO BE ADJUSTED which price shall include the adjustment of the catch basin, resetting the frame and grate or lid, and excavation and backfilling. New frames and lids, when specified, will be paid for separately."

MANHOLES TO BE ADJUSTED:

Work shall be according to Section 602, except as modified herein:

602.01 Description. Add the following to the end of this Article:

"This work shall consist of adjusting manholes to the finished elevation as determined by the Engineer".

602.02 Materials. Revise Notes 2 and 3 at the end of this Article to read:

"Note 2. High Density Polyethylene (HDPE) Plastic Adjusting Rings will not be allowed.

Note 3. Riser rings fabricated from recycled rubber must be used to adjust the frames and grates of drainage and utility structures up to a maximum of 50 mm (2 in.). They shall be installed and sealed underneath the frames according to the manufacturer's specifications.

Recycled rubber products shall consist of no less than 80 percent by weight recycled rubber. The riser shall meet or exceed the following when maintained at 23 ± 2°C (73 ± 3°F) for at least 24 hours prior to and during testing.

| Physical Property | Test Standard | Value |
|---|---|---|
| Density | ASTM C 642-90 | 1.10 ± 0.034 g/cu cm (68.63 ± 2.11 lb/cu ft) |
| Durometer Hardness | ASTM D 2240-97 Shore A | 72 ± 6 ¹ |
| Compression Deformation under 1000 kPa (145 psi) | ASTM D 575 – Test Method B Test of Specified Force | 9 ± 4% |
| Compression Set | ASTM D 395 – Illinois Modified Test Method B Compression Set under Constant Deflection in Air | 5 ± 3% ² |
| Weathering (70 hrs at 70 °C (158 °F)) Hardness retained | ASTM D 573 | 98%, minimum |
| Freeze/thaw when exposed to deicing chemicals | ASTM C 672-91 | 3% loss, maximum |

¹ Average of three tests over a 28 mm (1.12") diameter sample.

² Samples compressed to 75 percent of initial height.

Recycled rubber adjusting rings shall have no void areas, cracks, or tears, and have no effects due to exposure to ultraviolet light. The actual diameter or length shall not vary more than 3 mm (0.125") from the specified diameter or length. Variations in height are limited to ± 1.6 mm (0.063") for parts up to 50 mm (2")."

CONSTRUCTION REQUIREMENTS

Method of Measurement. The work will be measured for payment in place for each manhole adjusted.

602.16 Basis of Payment. Add the following to the end of this Article:

“This work will be paid for at the contract unit price per each for MANHOLES TO BE ADJUSTED which price shall include the adjustment of the manhole, resetting the frame and grate or lid, and excavation and backfilling. New frames and lids, when specified, will be paid for separately.”

INLETS TO BE ADJUSTED:

Work shall be according to Section 602, except as modified herein:

602.01 Description. Add the following to the end of this Article:

“This work shall consist of adjusting inlets to the finished elevation as determined by the Engineer”.

602.02 Materials. Revise Notes 2 and 3 at the end of this Article to read:

“Note 2. High Density Polyethylene (HDPE) Plastic Adjusting Rings will not be allowed.

Note 3. Riser rings fabricated from recycled rubber must be used to adjust the frames and grates of drainage and utility structures up to a maximum of 50 mm (2 in.). They shall be installed and sealed underneath the frames according to the manufacturer’s specifications.

Recycled rubber products shall consist of no less than 80 percent by weight recycled rubber. The riser shall meet or exceed the following when maintained at 23 ± 2°C (73 ± 3°F) for at least 24 hours prior to and during testing.

| Physical Property | Test Standard | Value |
|--|---|---|
| Density | ASTM C 642-90 | 1.10 ± 0.034 g/cu cm (68.63 ± 2.11 lb/cu ft) |
| Durometer Hardness | ASTM D 2240-97 Shore A | 72 ± 6 ¹ |
| Compression Deformation under 1000 kPa (145 psi) | ASTM D 575 – Test Method B Test of Specified Force | 9 ± 4% |
| Compression Set | ASTM D 395 – Illinois Modified Test Method B Compression Set under Constant Deflection in Air | 5 ± 3% ² |

| Physical Property | Test Standard | Value |
|---|---------------|------------------|
| Weathering (70 hrs at 70 °C (158 °F)) Hardness retained | ASTM D 573 | 98%, minimum |
| Freeze/thaw when exposed to deicing chemicals | ASTM C 672-91 | 3% loss, maximum |

¹ Average of three tests over a 28 mm (1.12") diameter sample.

² Samples compressed to 75 percent of initial height.

Recycled rubber adjusting rings shall have no void areas, cracks, or tears, and have no effects due to exposure to ultraviolet light. The actual diameter or length shall not vary more than 3 mm (0.125") from the specified diameter or length. Variations in height are limited to ± 1.6 mm (0.063") for parts up to 50 mm (2")."

CONSTRUCTION REQUIREMENTS

Method of Measurement. The work will be measured for payment in place for each inlet adjusted.

602.16 Basis of Payment. Add the following to the end of this Article:

"This work will be paid for at the contract unit price per each for INLETS TO BE ADJUSTED which price shall include the adjustment of the inlet, resetting the frame and grate or lid, and excavation and backfilling. New frames and lids, when specified, will be paid for separately."

INLETS TO BE RECONSTRUCTED:

Work shall be according to Section 602, except as modified herein:

602.01 Description. Add the following to the end of this Article:

"This work shall consist of reconstructing inlets to the finished elevation as determined by the Engineer".

602.02 Materials. Revise Notes 2 and 3 at the end of this Article to read:

"Note 2. High Density Polyethylene (HDPE) Plastic Adjusting Rings will not be allowed.

Note 3. Riser rings fabricated from recycled rubber must be used to adjust the frames and grates of drainage and utility structures up to a maximum of 50 mm (2 in.). They shall be installed and sealed underneath the frames according to the manufacturer's specifications.

Recycled rubber products shall consist of no less than 80 percent by weight recycled rubber. The riser shall meet or exceed the following when maintained at $23 \pm 2^\circ\text{C}$ ($73 \pm 3^\circ\text{F}$) for at least 24 hours prior to and during testing.

| Physical Property | Test Standard | Value |
|---|---|--|
| Density | ASTM C 642-90 | 1.10 ± 0.034 g/cu cm (68.63 ± 2.11 lb/cu ft) |
| Durometer Hardness | ASTM D 2240-97 Shore A | 72 ± 6^1 |
| Compression Deformation under 1000 kPa (145 psi) | ASTM D 575 – Test Method B Test of Specified Force | $9 \pm 4\%$ |
| Compression Set | ASTM D 395 – Illinois Modified Test Method B Compression Set under Constant Deflection in Air | $5 \pm 3\%^2$ |
| Weathering (70 hrs at 70°C (158°F)) Hardness retained | ASTM D 573 | 98%, minimum |
| Freeze/thaw when exposed to deicing chemicals | ASTM C 672-91 | 3% loss, maximum |

¹ Average of three tests over a 28 mm (1.12") diameter sample.

² Samples compressed to 75 percent of initial height.

Recycled rubber adjusting rings shall have no void areas, cracks, or tears, and have no effects due to exposure to ultraviolet light. The actual diameter or length shall not vary more than 3 mm (0.125") from the specified diameter or length. Variations in height are limited to ± 1.6 mm (0.063") for parts up to 50 mm (2")."

CONSTRUCTION REQUIREMENTS

Method of Measurement. The work will be measured for payment in place for each inlet reconstructed.

602.16 Basis of Payment. Add the following to the end of this Article:

"This work will be paid for at the contract unit price per each for INLETS TO BE RECONSTRUCTED which price shall include the reconstruction of the inlet, resetting the frame and grate or lid, and excavation and backfilling. New frames and lids, when specified, will be paid for separately."

VALVE VAULTS TO BE ADJUSTED:

Work shall be according to Section 602, except as modified herein:

602.01 Description. Add the following to the end of this Article:

"This work shall consist of adjusting valve vaults to the finished elevation as determined by the Engineer".

602.02 Materials. Revise Notes 2 and 3 at the end of this Article to read:

"Note 2. High Density Polyethylene (HDPE) Plastic Adjusting Rings will not be allowed.

Note 3. Riser rings fabricated from recycled rubber must be used to adjust the frames and grates of drainage and utility structures up to a maximum of 50 mm (2 in.). They shall be installed and sealed underneath the frames according to the manufacturer's specifications.

Recycled rubber products shall consist of no less than 80 percent by weight recycled rubber. The riser shall meet or exceed the following when maintained at $23 \pm 2^{\circ}\text{C}$ ($73 \pm 3^{\circ}\text{F}$) for at least 24 hours prior to and during testing.

| Physical Property | Test Standard | Value |
|---|---|--|
| Density | ASTM C 642-90 | 1.10 ± 0.034 g/cu cm (68.63 ± 2.11 lb/cu ft) |
| Durometer Hardness | ASTM D 2240-97 Shore A | 72 ± 6^1 |
| Compression Deformation under 1000 kPa (145 psi) | ASTM D 575 –Test Method B Test of Specified Force | $9 \pm 4\%$ |
| Compression Set | ASTM D 395 – Illinois Modified Test Method B Compression Set under Constant Deflection in Air | $5 \pm 3\%^2$ |
| Weathering (70 hrs at 70°C (158°F)) Hardness retained | ASTM D 573 | 98%, minimum |
| Freeze/thaw when exposed to deicing chemicals | ASTM C 672-91 | 3% loss, maximum |

¹ Average of three tests over a 28 mm (1.12") diameter sample.

² Samples compressed to 75 percent of initial height.

Recycled rubber adjusting rings shall have no void areas, cracks, or tears, and have no effects due to exposure to ultraviolet light. The actual diameter or length shall not vary more than 3 mm (0.125") from the specified diameter or length. Variations in height are limited to ± 1.6 mm (0.063") for parts up to 50 mm (2")."

CONSTRUCTION REQUIREMENTS

Method of Measurement. The work will be measured for payment in place for each valve vault adjusted.

602.16 Basis of Payment. Add the following to the end of this Article:

"This work will be paid for at the contract unit price per each for VALVE VAULTS BE ADJUSTED which price shall include the adjustment of the valve vault, resetting the frame and

grate or lid, and excavation and backfilling. New frames and lids, when specified, will be paid for separately.”

FRAMES AND LIDS TO BE ADJUSTED (SPECIAL):

Work shall be according to Section 603 and the District 1 Detail in the plans, except as modified herein:

603.01 Description. Add the following to the end of this Article:

“This work shall consist of adjusting catch basins, storm or sanitary manholes, inlets, or valve vaults in the pavement prior to milling and to the finished elevation prior to resurfacing as determined by the Engineer”.

603.02 Materials. Add the following to the end of this Article:

“High Density Polyethylene (HDPE) Plastic Adjusting Rings will not be allowed.

Riser rings fabricated from recycled rubber must be used to adjust the frames and grates or lids of structures up to a maximum of 50 mm (2 in.). They shall be installed and sealed underneath the frames according to the manufacturer’s specifications.

Recycled rubber products shall consist of no less than 80 percent by weight recycled rubber. The riser shall meet or exceed the following when maintained at 23 ± 2°C (73 ± 3°F) for at least 24 hours prior to and during testing.

| Physical Property | Test Standard | Value |
|---|--|---|
| Density | ASTM C 642-90 | 1.10 ± 0.034 g/cu cm (68.63 ± 2.11 lb/cu ft) |
| Durometer Hardness | ASTM D 2240-97 Shore A | 72 ± 6 ¹ |
| Compression Deformation under 1000 kPa (145 psi) | ASTM D 575 – Test Method B Test of Specified Force | 9 ± 4% |
| Compression Set | ASTM D 395 – Illinois Modified Test Method B Compression Set under Constant Deflection in Air | 5 ± 3% ² |
| Weathering (70 hrs at 70 °C (158 °F)) Hardness retained | ASTM D 573 | 98%, minimum |
| Freeze/thaw when exposed to deicing chemicals | ASTM C 672-91 | 3% loss, maximum |

¹ Average of three tests over a 28 mm (1.12”) diameter sample.

² Samples compressed to 75 percent of initial height.

Recycled rubber adjusting rings shall have no void areas, cracks, or tears, and have no effects due to exposure to ultraviolet light. The actual diameter or length shall not vary more than 3 mm (0.125") from the specified diameter or length. Variations in height are limited to ± 1.6 mm (0.063") for parts up to 50 mm (2")."

CONSTRUCTION REQUIREMENTS

603.08 Adjusting Rings. Add the following to the end of this Article:

"The following shall apply to sanitary manholes located in the pavement that require adjustment for milling.

Non-hardening butyl rubber mastic sealant; minimum thickness $\frac{1}{4}$ -inch, shall be used between adjusting rings in place of mortar. In locations where existing external frame seals exist, they shall be removed and reinstalled. In locations where internal frame seals exist, they shall be removed and disposed of and an external frame seal shall be installed. In locations where there are no existing frame seals, an external frame seal shall be installed.

The External Frame seal shall consist of the following:

- A. Provide frame seals consisting of a flexible external rubber sleeve and extension and stainless steel compression bands.
- B. Rubber sleeve and extension:
 - 1. Provide rubber sleeve and extension complying with ASTM C923.
 - 2. Comply with a minimum 1500 psi tensile strength, maximum 18 percent compression set and a hardness (durameter) of 48 ± 5 .
 - 3. Provide sleeve with a minimum thickness of $\frac{3}{16}$ -inch and unexpanded vertical heights of 6 or 9 inches.
- C. Provide extension having a minimum thickness of $\frac{3}{16}$ -inch.
- D. Compression band:
 - 1. Provide compression band to compress the sleeve against the manhole.
 - 2. Use 16 gauge stainless steel conforming to ASTM A240 Type 304 with no welded attachments and having a minimum width of 1-inch.
 - 3. Make a watertight seal having a minimum adjustment range of 2 diameter inches.
 - 4. Provide stainless steel screws, bolts, and nuts conforming to ASTM F593 and 594, Type 304.
- E. Acceptable products:
 - 1. Cretex Specialty Products.
 - 2. Or approved equal.

The External Frame Seal shall be installed as follows:

- A. Install external rubber gasket on the manhole frame and chimney.
 - 1. Provide watertight gasket to eliminate leakage between the frame and each adjusting ring down to and including cone section.

- B. Clean surface and prepare the lower 2 inches of the manhole frame and exterior of all adjusting rings and cone section/corbel surfaces.
 - 1. Realign frame on adjusting rings or corbel as required.
- C. Repair and apply mortar grout to the adjusting rings as required to provide a smooth, circular surface for the rubber gasket.
- D. Install rubber gasket in accordance with manufacturer's recommendations.
 - 1. Field verify for suitable dimensions and layout before installation.
 - 2. Utilize sealing caulk where required.
- E. Test installation by flooding area around the manhole with water before backfilling and surface restoration.
 - 1. Gaskets are required to provide watertight seal at openings between the frame and adjusting rings and between adjacent adjusting rings down to the cone/corbel section.
 - 2. Reinstall and retest failing gaskets at no additional cost to Owner.

Method of Measurement. The work will be measured for payment in place for each structure adjusted.

603.09 Basis of Payment. Add the following to the end of this Article:

"This work shall be paid for at the contract unit price per each for FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) which price shall include the adjustment of catch basins, storm or sanitary manholes, inlets or valve vaults, resetting the frame and grate or lid, removing and reinstalling external frame seals, removing and discarding internal frame seals and installing external frame seals or installing new external frame seals, and excavation and backfilling. New frames and lids, when specified, will be paid for separately."

CONCRETE CURB, TYPE B:

Work shall be according to Section 606, and the Detail provided in the Plans, except as modified herein:

606.01 Description. Add the following to the end of this Article:

"This work shall consist of constructing concrete curb, type B adjacent to driveways where concrete curb, type B was removed and shall include all saw cutting; pavement removal for forming purposes; excavating; installing a 4-inch CA-6 aggregate base course; installation of two No. 4 (1/2-inch) reinforcing bars across all trenches; backfilling in front of the concrete curb with Class SI Concrete; and dowel bars at construction and expansion joints."

CONSTRUCTION REQUIREMENTS

606.04 Excavation. Add the following to the end of this Article:

"A 4-inch thick CA-6 aggregate base course shall be placed and compacted under the proposed concrete curb. The 4-inch thick CA-6 aggregate base course shall be included in the Pay Item.

606.07 Concrete Gutter, Curb, and Curb and Gutter. Add following to the fourth paragraph of this Article:

"The Contractor shall form a perpendicular straight joint by full-depth machine sawing at the limits of the concrete curb removal. Any damage done to the existing concrete curb to remain in place shall be repaired or removed and replaced by the Contractor at his/her own expense, as determined by the Engineer.

It is the responsibility of the Contractor to determine the thickness of the existing concrete curb to be removed, and the extent to which they are reinforced. No additional compensation will be allowed because of variations from the assumed thickness(s) or from the thickness(s) shown on the Plans, or for variations in the amount of reinforcement. Curb adjacent to the pavement shall be 10 inches thick or match the existing pavement thickness, whichever is greater.

Contraction joints shall be provided at uniform intervals not to exceed 25 feet. Construction joints with dowel bars shall be provided at the end of a day's work. Expansion joints shall be 1-inch thick with two No. 6 (3/4") smooth epoxy coated bars with greased cap and shall be constructed at intervals not to exceed 60 feet. All joints shall be sealed with either hot-poured or cold-poured joint sealer, meeting the approval of the Village or Engineer. All joints shall be cleaned and dry prior to sealing. Hot-poured sealer shall comply with ASTM D 3405 and cold-poured sealer shall comply with ASTM D 1850.

Install two (2) 10-foot No. 4 (1/2-inch) reinforcing bars, on all utility crossings. Reinforcing bars shall extend 5 feet beyond the each edge of all utility crossings (existing or proposed)."

606.13 Backfill. Add the following to the end of this Article:

"After the concrete has obtained the specified strength or when determined by the Engineer, the space in back of the construction shall be backfilled to the top of the proposed curb with sand or other material approved by the Engineer, and neatly graded to the satisfaction of the Engineer. Excess sand behind the curb shall be removed just prior to parkway restoration work."

606.14 Method of Measurement. Add the following to the end of the article:

"The concrete curb, type B will be measured for payment in feet."

606.15 Basis of Payment. Add the following to the end of this Article:

"This work will be paid for at the contract unit price per foot for CONCRETE CURB, TYPE B.

CONCRETE MEDIAN, TYPE SB-6.06 (SPECIAL):

Work shall be according to Section 606, except as modified herein:

606.01 Description. Add the following to the end of this Article:

"This work shall consist of constructing concrete median; which shall include all sawcutting; pavement removal for forming purposes; excavating; installing a 4-inch CA-6 aggregate base course; installation of two No. 4 (1/2-inch) reinforcing bars; backfilling in front of the concrete median with Class SI Concrete; and dowel bars at construction and expansion joints."

606.04 Excavation. Add the following paragraphs to the end of this Article:

"A 4-inch thick CA-6 aggregate base course shall be placed and compacted under the proposed concrete median. The 4-inch thick CA-6 aggregate base course shall be included in this Pay Item.

Removal of the existing pavement will be required in order to install a front face form. The area between the edge of the existing pavement and the face of the new gutter shall be cleaned of all loose material and then filled with Class SI concrete to a minimum 6-inch width, 4½" below the top of the proposed gutter flag."

606.09 Concrete Medians. Add following to the fourth paragraph of this Article:

"The Contractor shall form a perpendicular straight joint by full-depth machine sawing at the limits of the concrete median removal. Any damage done to the existing concrete median to remain in place shall be repaired or removed and replaced by the Contractor at their own expense, as determined by the Engineer.

It is the responsibility of the Contractor to determine the thickness of the existing concrete median to be removed, and the extent to which they are reinforced. No additional compensation will be allowed because of variations from the assumed thickness(s) or from the thickness(s) shown on the Plans, or for variations in the amount of reinforcement."

Contraction joints shall be provided at uniform intervals not to exceed 25 feet. Construction joints with dowel bars shall be provided at the end of a day's work. Expansion joints shall be 1-inch thick with two No. 6 (3/4") smooth epoxy coated bars with greased cap and shall be constructed at intervals not to exceed 60 feet. All joints shall be sealed with either hot-poured or cold-poured joint sealer, meeting the approval of the Village or Engineer. All joints shall be cleaned and dry prior to

sealing. Hot-poured sealer shall comply with ASTM D 3405 and cold-poured sealer shall comply with ASTM D 1850.

Install two (2) 10-foot No. 4 (1/2-inch) reinforcing bars, on all utility crossings. Reinforcing bars shall extend 5 feet beyond the each edge of all utility crossings (existing or proposed)."

Portions of existing concrete median within the project limits are painted. If painted concrete median requires removal and replacement, the replacement concrete median shall be painted to match the color of the concrete median to be removed. Samples of the paint shall be provided to the Engineer prior to application to ensure compliance with the manufactures recommendations. No painting shall occur until the paint and application is approved by the Engineer. Painting shall be included in this Pay Item."

606.13 Backfill. Add the following to the end of this Article:

"After the concrete has obtained the specified strength or when determined by the Engineer, the space in front of the construction shall be filled with Class SI concrete to 4½ inches below the gutter flag."

606.14 Method of Measurement. Add the following to the end of this Article:

"This work will be measured for payment in place and the area computed in square feet."

606.15 Basis of Payment. Add the following to the end of this Article:

"This work will be paid for at the contract unit price per square foot for CONCRETE MEDIAN, TYPE SB-6.06 (SPECIAL). The cost of over cutting and filling in front of the concrete median shall also be included in this contract unit price."

CORRUGATED MEDIAN (SPECIAL):

Work shall be according to Section 606, except as modified herein:

606.01 Description. Add the following to the end of this Article:

"This work shall consist of constructing corrugated median; which shall include all sawcutting; pavement removal for forming purposes; excavating; installing a 4-inch CA-6 aggregate base course; backfilling in front of the concrete median with Class SI Concrete; and dowel bars at construction and expansion joints."

606.04 Excavation. Add the following paragraphs to the end of this Article:

"A 4-inch thick CA-6 aggregate base course shall be placed and compacted under the proposed corrugated median. The 4-inch thick CA-6 aggregate base course shall be included in this Pay Item.

Removal of the existing pavement will be required in order to install a front face form. The area between the edge of the existing pavement and the face of the new corrugated median shall be cleaned of all loose material and then filled with Class SI concrete to a minimum 6-inch width, 4½" below the proposed edge of pavement elevation."

606.09 Concrete Medians. Add following to the fourth paragraph of this Article:

"The Contractor shall form a perpendicular straight joint by full-depth machine sawing at the limits of the corrugated median removal. Any damage done to the existing corrugated median to remain in place shall be repaired or removed and replaced by the Contractor at his expense, as determined by the Engineer.

It is the responsibility of the Contractor to determine the thickness of the existing corrugated median to be removed, and the extent to which they are reinforced. No additional compensation will be allowed because of variations from the assumed thickness(s) or from the thickness(s) shown on the Plans, or for variations in the amount of reinforcement."

Portions of existing corrugated median within the project limits are painted. If painted corrugated median requires removal and replacement, the replacement corrugated median shall be painted to match the color of the corrugated median to be removed. Samples of the paint shall be provided to the Engineer prior to application to ensure compliance with the manufactures recommendations. No painting shall occur until the paint and application is approved by the Engineer. Painting shall be included in this Pay Item."

606.13 Backfill. Revise this Article to read:

"After the concrete has obtained the specified strength or when determined by the Engineer, the space in front of the construction shall be filled with Class SI concrete to 4½ inches below the gutter flag."

606.14 Method of Measurement. Revise this Article to read:

"This work will be measured for payment in place and the area computed in square feet."

606.15 Basis of Payment. Revise the first paragraph of this Article to read:

"This work will be paid for at the contract unit price per square foot for CORRUGATED MEDIAN (SPECIAL). The cost of over cutting and filling in front of the CORRUGATED MEDIAN (SPECIAL) shall also be included in this contract unit price."

TRAFFIC CONTROL PLAN:

Effective: September 30, 1985

Revised: January 1, 2007

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

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

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

STANDARDS:

- 701101-02 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS – DAY ONLY
- 701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701601-06 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-06 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-04 LANE CLOSURE MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES

DETAILS:

- Traffic Control and Protection for Side Roads, Intersections, and Driveways (TC-10)
- District One Typical Pavement Markings (TC-13)
- Pavement Marking Letters and Symbols for Traffic Staging (TC-16)
- Signing for Flagging Operations at Work Zone Openings (TC-18)
- Arterial Road Information Sign (TC-22)

SPECIAL PROVISIONS:

- Maintenance of Roadways
- Work Zone Traffic Control (Local Roads and Streets)

Flaggers in Work Zones (Local Roads and Streets)
Personal Protective Equipment (BDE)
Reflective Sheeting on Channelizing Devices (BDE)

CHANGEABLE MESSAGE SIGN:

Work shall be according to Section 701 and the plans, except as modified herein:

701.15 Traffic Control Devices. (j) Portable Changeable Message Signs.

Add the following to the end of this Article:

“The contractor shall be required to remove and relocate the signs as determined by the engineer and no additional compensation will be paid to the contractor.

Signs shall read ‘MILL ROAD CLOSED [DATE], USE DETOUR’ or ‘ARMY TRAIL BOULEVARD CLOSE [DATE], USE DETOUR’ or other message approved by the Engineer. Message on signs shall be updated immediately upon the request of the Engineer.”

701.19 Method of Measurement. Add the following to the end of the Article:

“This work will be measured for payment on a calendar month basis.”

701.20 Basis of Payment. Add the following to the end of the Article:

“This work will be paid for at the contract unit price per calendar month for each sign as CHANGEABLE MESSAGE SIGN.”

TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING, & PATCHING OPERATIONS:

The following Traffic Signal Special Provisions and the “District 1 Standard Traffic Signal Design Details” supplement the requirements of the State of Illinois “Standard Specifications for Road and Bridge Construction.”

The intent of this Special Provision is to prescribe the materials and construction methods commonly used to replace traffic signal detector loops and replace magnetic signal detectors with detector loops during roadway resurfacing, grinding and patching operations. Loop detector replacement will not require the transfer of traffic signal maintenance from the District Electrical Maintenance Contractor to this contract’s electrical contractor. Replacement of magnetic detector will require wiring revisions inside the control cabinet and therefore the transfer of maintenance will be required. All material furnished shall be new. The locations and the details of all installations shall be as indicated on the Plans or as directed by the Engineer.

The work to be provided under this contract consists of furnishing and installing all traffic signal work as specified on the Plans and as specified herein in a manner acceptable and approved by the Engineer.

NOTIFICATION OF INTENT TO WORK. Contracts such as pavement grinding or patching which result in the destruction of traffic signal detection require a notification of intent to work and an inspection. A minimum of seven (7) working days prior to the detection removal, the Contractor shall notify the:

- Traffic Signal Maintenance and Operations Engineer at (847) 705-4424
- AWWA Electrical Maintenance Contractor at (773) 287-7600
- Tom Talbot, Project Manager, Meade Electric at (708) 588-2500

at which time arrangements will be made to adjust the traffic controller timing to compensate for the absence of detection.

Failure to provide proper notification may require the Village's and/or District's Electrical Maintenance Contractor to be called to investigate complaints of inadequate traffic signal timing. All costs associated with these expenses will be paid for by the Contractor at no additional expense to the Department according to Section 109 of the "Standard Specifications."

ACCEPTANCE OF MATERIAL.

The Contractor shall provide:

1. All material approval requests shall be submitted a minimum of seven (7) days prior to the delivery of equipment to the job site, or within 30 consecutive calendar days after the contract is awarded, or within 15 consecutive calendar days after the preconstruction meeting, whichever is first.
2. Seven (7) copies of a letter listing the manufacturer's name and model numbers of the proposed equipment shall be supplied. The letter will be reviewed by the Traffic Design Engineer to determine whether the equipment to be used is approved. The letters will be stamped as approved or not approved accordingly and returned to the Contractor.
3. One (1) copy of material catalog cuts.
4. The contract number, permit number or intersection location must be on each sheet of the letter and material catalog cuts as required in items 2 and 3.

INSPECTION OF CONSTRUCTION.

When the road is open to traffic, except as otherwise provided in Section 801 and 850 of the Standard Specifications, the Contractor may request a turn-on and inspection of the completed traffic signal installation at each separate location. This request must be made to the Traffic Signal

Maintenance and Operations Engineer at (847) 705-4424 a minimum of seven (7) working days prior to the time of the requested inspection.

Acceptance of the traffic signal equipment by the Department shall be based upon inspection results at the traffic signal "turn on." If approved, traffic signal acceptance shall be verbal at the "turn on" inspection followed by written correspondence from the Engineer. If this work is not completed in time, the Department reserves the right to have the work completed by others at the Contractor's expense.

All cost of work and materials required to comply with the above requirements shall be included in the Pay Item bid prices, under which the subject materials and signal equipment are paid, and no additional compensation will be allowed. Materials and signal equipment not complying with the above requirements will be subject to removal and disposal at the Contractor's expense.

RESTORATION OF WORK AREA. Restoration of the traffic signal work area shall be incidental to the related Pay Item such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced as shown in the plans or in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded.

REMOVAL, DISPOSAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT. This item shall be incidental to this contract. All material and equipment removed shall become the property of the Contractor and disposed of by the Contractor outside the Village's and/or State's right-of-way. No additional compensation shall be provided to the Contractor for removal, disposal or salvage expense for the work in this contract.

DETECTOR LOOP REPLACEMENT. This work shall consist of replacing existing detector loops which are destroyed during grinding, resurfacing, or patching operations.

If damage to the detector loop is unavoidable, replacement of the existing detection system will be necessary. This work shall be completed by an approved Electrical Contractor as directed by the Engineer.

Replacement of the loops shall be accomplished in the following manner: The Engineer shall mark the location of the replacement loops. The Traffic Signal Maintenance and Operations Engineer shall be called to approve loop locations prior to the cutting of the pavement. The Contractor may reuse the existing conduit (duct) located between the existing handhole and the pavement if it hasn't been damaged. All burrs shall be removed from the edges of the existing conduit which may cause damage to the new detector loop during installation. If the existing conduit is damaged beyond repair, or if it cannot be located, or if additional conduits are required to provide one lead-in duct for each proposed loop; the Contractor shall be required to drill through the existing pavement into the appropriate handhole, and install 25 mm (1") unit duct conduit. This work and the required materials shall not be paid for separately but shall be included in the Pay Item Detector Loop

Replacement. Upon establishment of the duct, the loop may be cut, installed, sealed and spliced to the twisted-shielded controller cable in the handhole.

Detector loop measurements shall include the saw-cut and the length of the loop lead-in leading to the edge of pavement. Unit duct, splicing, trench and backfill, and drilling of pavement or handholes shall be incidental to detector loop quantities.

All loops installed in new asphalt pavement shall be installed in the binder course and not in the surface course. The edge of pavement or the curb shall be cut with a 6.3 mm (1/4") deep x 100 mm (4") saw-cut to mark location of each loop lead-in.

A minimum of seven (7) working days prior to the Contractor cutting loops, the Contractor shall have the proposed loop locations marked and contact the Traffic Signal Maintenance and Operations Engineer (847) 705-4424 to inspect and approve the layout.

Loop detectors shall be installed according to the requirements of the "District 1 Standard Traffic Signal Design Details". Saw-cuts from the loop to the edge of pavement shall be made perpendicular to the edge of pavement when possible in order to minimize the length of the saw-cut unless directed otherwise by the Engineer or as shown on the plan.

The detector loop cable insulation shall be labeled with the cable specifications. Each loop detector lead-in wire shall be labeled in the handhole using a Panduit 250W175C water proof tag or approved equal secured to each wire with nylon ties. The lead-in wire, including all necessary connections for proper operation, from the edge of pavement to the handhole, shall be incidental to the price of the detector loop.

Loop sealant shall be a two-component thixotropic chemically cured polyurethane either Chemque Q-Seal 295, Percol Elastic Cement A/C Grade or an approved equal. The sealant shall be installed 3 mm (1/8") below the pavement surface, if installed above the surface the overlap shall be removed immediately.

Round loop(s) 1.8 m (six-foot) diameter may be substituted for 1.8 m (six-foot) by 1.8 m (six-foot) square loop(s) and shall be paid for as 7.2 m (24 feet) of detector loop.

Resistance to ground shall be a minimum of 100 megohms under any conditions of weather or moisture.

Heat shrink splices shall be used according to the "District 1 Standard Traffic Signal Design Details".

Drilling handholes, sawing the pavement, furnishing and installing unit-duct to the appropriate handhole, cable splicing to provide a fully operable detector loop, testing and all trench and backfill shall be included in this item.

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Basis of Payment. Detector Loop Replacement shall be paid for at the contract unit price per foot (meter) of DETECTOR LOOP REPLACEMENT.

MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION. This work shall consist of the removal of existing magnetic detectors, magnetic detector lead-in cable and magnetic detection amplifiers and related control equipment wiring, installation of detector lead-in cable, detector loops, detector amplifiers and related equipment wiring. The detector loop, cable, and amplifier shall be installed according to the applicable portions of the "Standard Specifications" and the applicable portions of the Special Provision for "Detector Loop Replacement." All drilling of handholes, furnishing and installing unit duct, cable splicing, trench and backfill, removal of equipment, and pulling cable from conduit shall be included in this item.

Basis of Payment. Magnetic Detector Removal and Detector Loop Installation shall be paid for at the contract unit price per foot (meter) for DETECTOR LOOP, TYPE I, per each for INDUCTIVE LOOP DETECTOR, and foot (meter) for ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR.

CONSTRUCTION LAYOUT:

Work shall be according to the recurring special provision for CONSTRUCTION LAYOUT STAKES, except as modified herein:

Description. Add the following to the end of the article:

"This work shall consist of construction layout of the proposed improvements once. Layout can be staged, with up to 50% completed in one visit prior to beginning construction. The remaining construction layout shall be completed at one time during construction."

General. Add the following to the end of the article:

"The contractor shall provide construction layout stakes. The contractor shall be responsible to ensure layout remains. Additional layouts required due to knock downs, stake removal, etc. shall be at the contractor's expense."

Method of Measurement. This work will be measured for payment on a lump sum basis.

Basis of Payment. This work will be paid for at contract lump sum price for CONSTRUCTION LAYOUT.

NON-SPECIAL WASTE DISPOSAL:

Description. The work of this Pay Item shall be according to Section 669 and the Special Provision for "TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN" and consists of excavation of soil contaminated with petroleum products; removal of contaminated soil from the trench; temporary storage by the Contractor at an acceptable off-site location; land fill disposal permitting; hauling, trucking or transportation of the contaminated soil to the temporary storage location and the disposal facility accepting special wastes; disposal of the contaminated soil at the disposal facility; personnel protection; compliance with all applicable Federal, State and local regulations; cleaning and decontamination of equipment, vehicles, and the site; including all disposal fees and manifesting.

The Contractor shall be responsible for any and all special waste plans and reports. This will be paid for separately as SPECIAL WASTE PLANS AND REPORT on a L SUM basis.

The Contractor shall be responsible for any and all BETX soil analysis. This will be paid for separately as BETX SOIL ANALYSIS for each analysis. Only one analysis shall be provided.

Method of Measurement. The work will be measured in the field at the site, in cubic yards based upon the theoretical computed volume prior to removal from the trench.

The work will also be measured in tons, with weight determined at the licensed, and approved, disposal site. The weight tickets or receipts will be used as a check of the field/site volume determination. For every 1¼ tons of net weight, the Contractor will be paid for one cubic yard of removal and disposal.

Final volume of soil shall be measured as the volume determined by measurement in the field or determined by calculating the volume based on the weight of the soil disposed of at the disposal facility, whichever is greater.

Basis of Payment. The work will be paid for at the Contract Unit Price per cubic yard for NON-SPECIAL WASTE DISPOSAL. If contaminated soils are not encountered, then the quantity shall be deducted and no additional compensation will be due to the contractor.

TRAFFIC CONTROL AND PROTECTION (DETOUR):

Description. This work shall be done in accordance with Section 701 of the Standard Specifications, the traffic control detour and details on the plans and the special provisions provided herein. This work shall consist of installing a traffic control detour for construction work along Mill Road and Army Trail Boulevard.

Installation Requirements: Prior to construction, traffic control detour signage, as identified in the traffic control detour and details on the plans, shall be installed for traffic to be detoured around Mill Road and Army Trail Boulevard. Coordination shall be required with the Village to transfer existing

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signalized intersections on Army Trail Boulevard at Mill Road and Lincoln Avenue to stop control mode and return to normal operation after construction on Army Trail Boulevard is complete. Army Trail Boulevard is designated a "no truck route" from Rohlwing Road to Lake Street. Mill Road and Army Trail Boulevard is off limits to construction truck traffic except where the work is being performed. Truck traffic shall only be allowed onto the jobsite through the two points from Lake Street. Relocation of any traffic control detour signs on Mill Road and Army Trail Boulevard required to comply with the TRAFFIC CONTROL AND PROTECTION, STANDARDS on Mill Road and Army Trail Boulevard shall be included in the cost of this item.

Method of Measurement. This work will be measured for payment on a lump sum basis.

Basis of Payment. This work will be paid for at the at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION (DETOUR), which price shall include all stages of the detour and all of the above.

SANITARY SEWER ADJACENT TO OR CROSSING WATER MAIN:

This work consists of constructing sanitary sewer adjacent to or crossing a water main, at the locations shown on the plans. The material and installation requirements shall be according to the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois", and the applicable portions of Section 563 of the Standard Specifications.

Pipe materials shall meet the requirements of Sections 40 and 41-2.01 of the "Standard Specifications for Water and Sewer Main Construction in Illinois", except PVC pipe will not be allowed. Ductile-Iron pipe shall meet the minimum requirements for Thickness Class 52.

Encasing of standard type sanitary sewer, according to the details for "Water and Sewer Separation Requirements (Vertical Separation)" in the "STANDARD DRAWINGS" Division of the "Standard Specifications for Water and Sewer Main Construction in Illinois", may be used for sanitary sewers crossing water mains.

Basis of Payment: This work will be paid according to Article 550.10 of the Standard Specifications, except the Pay Item shall be SANITARY SEWER 8" TYPE 2, DUCTILE IRON, CL 52.

CONNECTIONS TO EXISTING WATER MAINS (NON-PRESSURE):

Description. This work shall consist of the connection of the proposed water main to the existing water main at locations shown on the Plans. It shall be performed in accordance with applicable portions of Section 41 of the "Standard Specifications for Water and Sewer Main Construction in Illinois," latest edition.

The work shall include all necessary equipment necessary to physically make the connection. Pipe bedding and backfill shall be in accordance with the special provision for "TRENCHING, BACKFILLING, AND COMPACTING FOR WATER MAIN". Any reducers, cutting-in

sleeves, or any other fitting near/or as result of the connection, shall be installed and paid for according to the DUCTILE IRON WATER MAIN FITTINGS special provision.

CONSTRUCTION REQUIREMENTS

Proposed water main shall be connected to existing water main after the new main has passed hydrostatic testing and disinfection. Connections shall be accomplished by use of mechanical joint fittings and lengths of pipe to make the most direct vertical and horizontal adjustments necessary to make the connection. This may include cut-ins to the existing main or connections to existing valves or fittings. This work will require water shut-off, which shall be coordinated with the Village's maintenance personnel for date, time and duration of shut-off. The Village Public Works shall be notified a minimum 48 hours prior to the planned water disruption.

New fittings and pipe that need to be put into immediate service shall be flushed and swabbed with 5 percent solution of calcium hypochlorite prior to assembly as approved by the Engineer and/or Village.

Method of Measurement. The work will be measured for payment in place for each non-pressure connection made to an existing water main.

Basis of Payment. This work will be paid for at the contract unit price for each CONNECTIONS TO EXISTING WATER MAINS (NON-PRESSURE), of the size indicated, which includes necessary equipment to physically make the connection, polyethylene wrapping, disinfection, testing, and thrust blocking.

Water main fittings and valves shall be paid for separately as DUCTILE IRON WATER MAIN FITTINGS, of the type and size specified and GATE VALVE WITH VAULT, of the sizes specified, respectively.

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; and applicable ordinances of the Village of Addison.

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.

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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 for each DUCTILE IRON WATER MAIN FITTING, of the type and/or size(s) specified.

WATER SERVICE CONNECTION:

Description. This work shall consist of furnishing all labor, materials and equipment necessary to install water services including service pipe, service tabs, corporation stops, curb stops and curb boxes at locations shown on the Plans or as determined in the field. All material shall be manufactured in the United States.

Curb stops shall be installed for each water service. Curb stops shall be fabricated of brass and shall be provided with outlets suitable for flared joint copper connections. Curb stops shall be of the round-way type, Ford or Mueller Ori-Seal.

A cast iron curb box, of the Buffalo type with an arch-type saddle, Mueller shall be furnished and installed over the curb stop. Curb boxes, also known as Buffalo boxes or B-boxes, shall be size 95E with the top section having a 2½" shaft size. The lid of a curb box shall contain the word "WATER".

Service taps up to and including 1-inch in size shall be made using a corporation stop. Service taps over 1-inch in diameter, up to and including 2 inches in size, shall be made with a stainless steel tapping sleeve and a corporation stop. Service taps larger than 2 inches shall use a stainless steel tapping sleeve and a tapping valve. Service taps 4 inches and larger shall be made with a valve and vault.

All tapping sleeves shall be full circle stainless steel (Rockwell 662, 663 or approved equal by engineer) and used at the tap. All nuts and bolts used with the tapping sleeve shall also be stainless steel.

Copper water service pipe shall be Type "K" or greater copper tube, soft temper, for underground service, conforming to ASTM B-88 and B-251. The pipe shall be marked with the manufacturer's name or trademark and a mark indicative of the type of pipe.

CONSTRUCTION REQUIREMENTS

The Contractor shall furnish and install curb stops in accordance with the Plans, the "Standard Specifications for Water and Sewer Main Construction in Illinois", latest edition and applicable ordinances of the Village of Addison. Curb stops shall be set on a flat concrete block (12" x 12" x 1"), at least 5 feet 6 inches below finished surface grade.

Curb boxes shall be installed near the locations of existing curb stops and service boxes, and shall **not** be located in any sidewalk or driveway. The Contractor shall record the location of the new curb boxes from the nearest newly installed fire hydrant. Curb boxes shall be held in a truly vertical position and staked into place to ensure permanent vertical alignment of the curb box. The location of the curb box shall be marked with a 2" x 4" 8-foot long board, extending 3 feet above the ground surface until the final stages of the project.

Copper water service pipe shall be installed a minimum of 5' 6" deep, and shall connect between the new corporation stop and the new curb stop as shown on the Plans. No water service couplings shall be made under paved areas.

Where indicated on the Plans, new Type K copper water service tubing of the appropriate size shall be pushed into position. The Contractor may employ auguring, hydraulic pushing or other industry-recognized techniques to accomplish this work upon approval of the Village.

Open cut service pipe under pavement, curb and gutter or sidewalk shall be thoroughly backfilled in accordance with the special provision for TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN and shall be included in the cost of this work.

Method of Measurement. The work will be measured for payment in place for each water service connection.

Basis of Payment. This work will be paid for at the contract unit price for each WATER SERVICE CONNECTION of the size indicated complete in place, which includes all water service pipe, tapping sleeves, corporations stops, curb stops, curb boxes, excavation and backfill.

SANITARY SERVICE REPLACEMENT:

Description. The work of this Pay Item shall be in accordance with the Special Provision for "TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN" and shall consist of removing sanitary sewer service pipes encountered during installation of the water main or the new sanitary sewer, and replacement of the service pipes complete in place, including providing and installing a 20-foot long piece of the same size PVC SDR 26 sewer pipe to replace the service pipe removed; non-shear watertight couplings at ends of the replacements; granular backfill extending from the top of the water main bedding and cover material to 12 inches above the PVC sewer service replacement pipe; backfilling with excavated material or granular backfill; and protection of the service pipe during backfilling.

Basis of Payment. The work shall be paid for at the Contract Unit Price per each for SANITARY SERVICE REPLACEMENT, regardless of pipe size.

Where the sanitary sewer service pipe is outside the water main trench, granular trench backfill where required will be paid for under the separate Pay Item for TRENCH BACKFILL, SPECIAL.

FLUOROCARBON RUBBER (VITON) GASKETS:

Description. The work of Pay Item shall be in accordance with Section 561 and the Special Provision for "TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN" and shall consist of substituting fluorocarbon or buna-nitrile material gaskets for common gaskets used in water main pipe joints, as required at the time of construction.

Method of Measurement. The work will be measured by each gasket provided and installed, based on gaskets for 8-inch water main pipe. If gaskets of a different diameter are provided and installed, the gaskets will be paid for a proportional basis. For example, a gasket for a 10-inch pipe will be measured as 1.25 of an 8-inch gasket.

Basis of Payment. The work shall be paid for at the Contract Unit Price for each FLUOROCARBON RUBBER (VITON) GASKET substituted for a common gasket.

TOPSOIL FURNISH AND PLACE (PULVERIZED) VARIABLE DEPTH:

This work shall be done in accordance with Section 211 of the Standard Specifications and the Plans, except as modified herein.

211.01 Description. Revise the Article to read:

"This work shall consist of furnishing, excavating, and placing pulverized topsoil for a minimum depth of 4 inches."

211.02 Materials. Add the following to the end of the Article:

"Samples of the pulverized topsoil shall be provided to the Village for review and written approval prior to installation."

211.07 Method of Measurement. Revise the article to read:

"The area of pulverized topsoil shall be computed for payment in place measured in square yards as determined by the Engineer."

211.08 Basis of Payment. Revise the article to read:

"This work will be paid for at the contract unit price per square yard for TOPSOIL FURNISH AND PLACE (PULVERIZED) VARIABLE DEPTH of a minimum depth of 4 inches."

VALVE VAULTS:

Description: The work of this Pay Item shall be in accordance with Section 562 and the Special Provision for "TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN" and shall

consist of the installation of valve vaults during pressure connections complete in place, including sawcutting; removal and disposal of existing pavements; excavation in excess of that required for tapping sleeve installation; bracing, sheeting, and shoring; protection, replacement, or repair of utilities; dewatering, including erosion and sedimentation control methods and devices to provide protection to the environment from all pumping operations; vault bedding; vault to be installed over existing water main for pressure connections; vault riser sections as required to provide proper depth; eccentric cone for pressure connection valve vaults; frame and cover adjusting rings; frame and cover; steps; backfilling with compacted excavated materials in parkways, and compacted granular materials under pavements; and including frame and cover adjustment to final grade at time of street or parkway restoration.

This Pay Item includes providing vaults of sufficient depth to provide the standard depth of cover indicated on the drawings, plus two feet, measured from the top of the water main to the top of the frame and cover. If depth of cover is 6 feet, vaults to a depth of 8 feet from top to main to top of frame and cover will be installed at no additional cost to the contract.

Method of Measurement. The work will be measured for payment in place for each valve vault installed.

Basis of Payment: The work will be paid for at the Contract Unit Price for each VALVE VAULTS of the diameter specified.

PVC CASING PIPE:

Description. This work consists of furnishing all labor, materials, and appurtenance necessary to install 20" diameter PVC casing pipe around ductile iron water main at locations shown on the Plans.

The water main quality casing pipe shall be polyvinyl chloride pipe (ASTM D-2241) PVC SDR-26 class 160 psi with ASTM D-3139 joints and gaskets. The Contractor shall seal the ends of the casing pipe with concrete masonry and mortar. Mortar shall conform to ASTM C270, Type M, with Type II Portland cement and Type S lime.

The work shall be performed in accordance with the Plans, the "Standard Specifications for Water and Sewer Main Construction in Illinois," latest edition and applicable ordinances of the Village of Addison. This work shall include installation of a 20" diameter PVC casing pipe of sufficient length to extend 10 feet on either side of all sewers and services that cross over the proposed water main.

Method of Measurement. This work will be measured for payment in lineal feet along the centerline of the pipe, and will begin and end at the transition to ductile iron water main pipe. The length of pipe shall be measured with the Engineer prior to insertion, and any unused portion after installation shall be subtracted from the original length to arrive at the final measurement for payment.

Basis of Payment. This work will be paid for at the contract unit price per foot for PVC CASING PIPE of the size specified.

SANITARY MANHOLES TO BE REMOVED:

Work shall be according to Section 605, except as modified herein:

605.01 Description. Add the following to the end of this Article:

“This work shall consist of removing existing sanitary manholes”.

CONSTRUCTION REQUIREMENTS

Method of Measurement. The work will be measured for payment for each sanitary manhole removed.

605.06 Basis of Payment. Add the following to the end of this Article:

“This work will be paid for at the contract unit price per each for SANITARY MANHOLES TO BE REMOVED.”

SANITARY MANHOLES TO BE ADJUSTED:

Work shall be according to Section 602, except as modified herein:

602.01 Description. Add the following to the end of this Article:

“This work shall consist of adjusting sanitary manholes to the finished elevation as determined by the Engineer”.

602.02 Materials. Add the following to the end of this Article:

“High Density Polyethylene (HDPE) Plastic Adjusting Rings will not be allowed.”

CONSTRUCTION REQUIREMENTS

602.11 Furnishing and Placing Castings. Add the following to the end of this Article:

“Non-hardening butyl rubber mastic sealant; minimum thickness ¼-inch, shall be used between adjusting rings in place of mortar. In locations where existing external frame seals exist, they shall be removed and reinstalled. In locations where internal frame seals exist, they shall be removed and disposed of and an external frame seal shall be installed. In locations where there are no existing frame seals, an external frame seal shall be installed.

The External Frame seal shall consist of the following:

- A. Provide frame seals consisting of a flexible external rubber sleeve and extension and stainless steel compression bands.
- B. Rubber sleeve and extension:
 - 1. Provide rubber sleeve and extension complying with ASTM C923.
 - 2. Comply with a minimum 1500 psi tensile strength, maximum 18 percent compression set and a hardness (durameter) of 48 ± 5 .
 - 3. Provide sleeve with a minimum thickness of 3/16-inch and unexpanded vertical heights of 6 or 9 inches.
- C. Provide extension having a minimum thickness of 3/16-inch.
- D. Compression band:
 - 1. Provide compression band to compress the sleeve against the manhole.
 - 2. Use 16 gauge stainless steel conforming to ASTM A240 Type 304 with no welded attachments and having a minimum width of 1-inch.
 - 3. Make a watertight seal having a minimum adjustment range of 2 diameter inches.
 - 4. Provide stainless steel screws, bolts, and nuts conforming to ASTM F593 and 594, Type 304.
- E. Acceptable products:
 - 1. Cretex Specialty Products.
 - 2. Or approved equal.

The External Frame Seal shall be installed as follows:

- A. Install external rubber gasket on the manhole frame and chimney.
 - 1. Provide watertight gasket to eliminate leakage between the frame and each adjusting ring down to and including cone section.
- B. Clean surface and prepare the lower 2 inches of the manhole frame and exterior of all adjusting rings and cone section/corbel surfaces.
 - 1. Realign frame on adjusting rings or corbel as required.
- C. Repair and apply mortar grout to the adjusting rings as required to provide a smooth, circular surface for the rubber gasket.
- D. Install rubber gasket in accordance with manufacturer's recommendations.
 - 1. Field verify for suitable dimensions and layout before installation.
 - 2. Utilize sealing caulk where required.
- E. Test installation by flooding area around the manhole with water before backfilling and surface restoration.
 - 1. Gaskets are required to provide watertight seal at openings between the frame and adjusting rings and between adjacent adjusting rings down to the cone/corbel section.
 - 2. Reinstall and retest failing gaskets at no additional cost to Owner.

Method of Measurement. The work will be measured for payment in place for each sanitary manhole adjusted.

602.16 Basis of Payment. Add the following to the end of this Article:

“This work shall be paid for at the contract unit price per each for SANITARY MANHOLES TO BE ADJUSTED which price shall include the adjustment of sanitary manholes, resetting the frame and grate or lid, removing and reinstalling external frame seals, removing and discarding internal frame seals and installing external frame seals or installing new external frame seals, and excavation and backfilling. New frames and lids, when specified, will be paid for separately.”

STORM SEWER ADJACENT TO OR CROSSING WATER MAIN:

This work consists of constructing storm sewer adjacent to or crossing a water main, at the locations shown on the plans. The material and installation requirements shall be according to the latest edition of the “Standard Specifications for Water and Sewer Main Construction in Illinois”, and the applicable portions of Section 550 of the Standard Specifications; which may include concrete collars and encasing pipe with seals if required.

Pipe materials shall meet the requirements of Sections 40 and 41-2.01 of the “Standard Specifications for Water and Sewer Main Construction in Illinois”, except PVC pipe will not be allowed. Ductile-Iron pipe shall meet the minimum requirements for Thickness Class 52.

Encasing of standard type storm sewer, according to the details for “Water and Sewer Separation Requirements (Vertical Separation)” in the “STANDARD DRAWINGS” Division of the “Standard Specifications for Water and Sewer Main Construction in Illinois”, may be used for storm sewers crossing water mains.

Basis of Payment: This work will be paid according to Article 550.10 of the Standard Specifications, except the Pay Item shall be STORM SEWER (WATER MAIN REQUIREMENTS), of the diameter specified.

TEMPORARY INFORMATION SIGNING:

Effective: November 13, 1996

Revised: January 2, 2007

Description. This work shall consist of furnishing, installing, maintaining, relocating for various states of construction and eventually removing temporary informational signs. Included in this item may be ground mount signs, skid mount signs, truss mount signs, bridge mount signs, and overlay sign panels which cover portions of existing signs.

Materials. Materials shall be according to the following Articles of Section 1000 – Materials:

| | <u>Item</u> | <u>Article</u> |
|----|-------------------------|----------------|
| a) | Sign Base (Notes 1 & 2) | 1090 |
| b) | Sign Face (Note 3) | 1091 |
| c) | Sign Legends | 1092 |
| d) | Sign Supports | 1093 |

e) Overlay Panels (Note 4) 1090.01

Note 1: The Contractor may use 5/8-inch (16 mm) instead of 3/4-inch (19 mm) thick plywood.

Note 2: Type A sheeting can be used on the plywood base.

Note 3: All sign faces shall be Type A except all orange signs shall meet the requirements in Article 1084.02(b).

Note 4: The overlay panels shall be 0.08-inch (2 mm) thick.

GENERAL CONSTRUCTION REQUIREMENTS

Installation. The sign sizes and legend sizes shall be verified by the Contractor prior to fabrication.

Signs which are placed along the roadway and/or within the construction zone shall be installed according to the requirements of Article 701.14 and Article 720.04. The signs shall be 7 ft (2.1 m) above the near edge of the pavement and shall be a minimum of 2 ft (600 mm) beyond the edge of the paved shoulder. A minimum of two (2) posts shall be used.

The attachment of temporary signs to existing sign structures or sign panels shall be approved by the Engineer. Any damage to the existing signs due to the Contractor's operations shall be repaired or signs replaced, as determined by the Engineer, at the Contractor's expense.

Signs which are placed on overhead bridge structures shall be fastened to the handrail with stainless steel bands. These signs shall rest on the concrete parapet where possible. The Contractor shall furnish mounting details for approval by the Engineer.

Method of Measurement. This work shall be measured for payment in square feet (square meters) edge to edge (horizontally and vertically).

All hardware, posts or skids, supports, bases for ground mounted signs, connections, which are required for mounting these signs will be included as part of this Pay Item.

Basis of Payment. This work shall be paid for at the contract unit price per square feet (square meter) for TEMPORARY INFORMATION SIGNING.

ABANDONMENT OF EXISTING WATER MAINS:

Description. This work of this Pay Item shall be in accordance with Special Provision for "TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN" and consists of the abandonment of existing water mains, including the abandonment and partial removal of existing water mains, valve vaults, valve boxes and fire hydrants. The work shall include saw-cutting, removal and disposal of existing pavements; excavation; removal and disposal of waste excavated materials; temporary line stops; removing portions of existing water mains, valve vaults, valve boxes and complete removal of fire hydrants, capping or plugging abandoned water main; fittings; concrete

thrust blocks; filling excavations and structures with compacted granular materials where required; and surface restoration.

Provide ductile iron plugs, caps or other fittings and concrete thrust blocking, on ends of portions of existing mains that are to remain in service.

Basis of Payment. This work will be paid for at the Contract Unit Lump Sum Price for ABANDONMENT OF EXISTING WATER MAINS.

STEEL CASING PIPE AUGERED AND JACKED:

Description. The work of this Pay Item shall be in accordance with Section 561 and the Special Provision for "TRENCHING, BACKFILLING AND COMPACTING FOR WATER MAIN" and shall consist of steel casing pipe complete in place by augering and jacking or pneumatic ramming methods; including providing both jacking and receiving pits; tight sheeting to protect adjacent utilities, roadways and property, or to provide protection to the public; protection, repair or replacement of utilities; traffic control; fencing of work site to provide protection to public; excavation; removal and disposal of waste excavated materials; bracing; dewatering, including erosion and sedimentation control methods and devices to provide protection to environment from all pumping operations; providing and jacking or ramming of casing pipe; grouting of voids between casing and casing excavation; installing carrier pipe; supporting carrier pipe within the casing; filling of annular space between carrier and casing pipe; end seals; testing; backfilling with and compaction of excavated materials, or granular backfill if indicated on the Drawings; cleanup; and finish grading.

Removal and replacement of casing to avoid obstructions, achieve correct slope, elevation, and bearing will be done at no additional cost to the Contract.

Installation of short lengths of casing and carrier pipe because of limited working room will be done at no additional cost to the Contract.

Method of Measurement. The work will be measured in lineal feet for the length of the casing pipe.

Basis of Payment. The work will be paid for at the Contract Unit Price per foot for STEEL CASING PIPE AUGERED AND JACKED of the diameter specified.

TEMPORARY PAVEMENT:

Description. This work shall consist of constructing a temporary pavement at the locations shown on the plans or as directed by the engineer.

The contractor shall use HMA according to Sections 355, 356, 406 of the Standard Specifications, and other applicable HMA special provisions as contained herein. The HMA

mixtures to be used shall be specified in the plans. The thickness of the Temporary Pavement shall be as described in the plans.

Articles 355.08 and 406.11 of the Standard Specifications shall not apply.

The removal of the Temporary Pavement, if required, shall conform to Section 440 of the Standard Specification.

Temporary pavement shall be installed at locations open to through traffic and intersections at the end of each day. The Village reserves the right to not install TEMPORARY PAVEMENT in areas where the Village deems TEMPORARY PAVEMENT is not required.

Where TEMPORARY PAVEMENT is not installed:

- (a) quantity shall be deducted and no revision in the unit price shall be allowed;
- (b) trench backfill, special shall be installed to existing pavement elevation and will be paid for as TRENCH BACKFILL, SPECIAL.

Milling operations will reduce the thickness of the TEMPORARY PAVEMENT to 1½ inches. The Contractor is responsible to inspect the TEMPORARY PAVEMENT as the milling operations occur to ensure the TEMPORARY PAVEMENT is satisfactory for traffic. The Contractor shall continue to inspect and maintain the TEMPORARY PAVEMENT as necessary until the permanent pavement patch is installed. Any and all maintenance to the TEMPORARY PAVEMENT shall be completed immediately. Any and all maintenance to the TEMPORARY PAVEMENT shall be included in this Pay Item.

Method of Measurement. Temporary pavement will be measured in place and the area computed in square yards.

Basis of Payment. This work will be paid for at the contract unit price per square yard for TEMPORARY PAVEMENT.

Removal of temporary pavement will be included in the cost for CLASS D, PATCHES, of the type and depth specified.

SANITARY SEWER REMOVAL 8":

Work shall be according to Section 563, except as modified herein:

563.01 Description. Add the following to the end of this Article:

"The work shall consist of removal and appropriate disposal of sanitary sewer, of the diameter specified in conflict with the proposed improvements."

CONSTRUCTION REQUIREMENTS

563.03 General. Add the following to the end of this Article:

"Where the removed pipe is not replaced, the void shall be filled with compacted granular material which will be paid for as TRENCH BACKFILL, SPECIAL."

563.06 Method of Measurement. Add the following to the end of this Article:

"The work will be measured in feet."

563.07 Basis of Payment. Add the following to the end of this Article:

"The work will be paid for at the contract unit price per foot for SANITARY SEWER REMOVAL 8"."

AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS:

Revise Article 402.10 of the Standard Specifications to read:

"402.10 For Temporary Access. The contractor shall construct and maintain aggregate surface course for temporary access to private entrances, commercial entrances and roads according to Article 402.07 and as determined by the Engineer.

The aggregate surface course shall be constructed to the dimensions and grades specified below, except as modified by the plans or as determined by the Engineer.

- (a) Private Entrance. The minimum width shall be 12 ft (3.6 m). The minimum compacted thickness shall be 6 in. (150 mm). The maximum grade shall be eight percent, except as required to match the existing grade. Temporary access shall only be provided at driveways to be disturbed by water main installation or as determined by the Engineer.
- (b) Commercial Entrance. The minimum width shall be 24 ft (7.2 m). The minimum compacted thickness shall be 9 in. (230 mm). The maximum grade shall be six percent, except as required to match the existing grade.
- (c) Road. The minimum width shall be 24 ft (7.2 m). The minimum compacted thickness shall be 9 in. (230 mm). The grade and elevation shall be the same as the removed pavement, except as required to meet the grade of any new pavement constructed.

Maintaining the temporary access shall include relocating and/or regrading the aggregate surface course for any operation that may disturb or remove the temporary access. The same type and gradation of material used to construct the temporary access shall be used to maintain it.

When use of the temporary access is discontinued, the aggregate shall be removed and utilized in the permanent construction or disposed of according to Article 202.03."

Add the following to Article 402.12 of the Standard Specifications:

"Aggregate surface course for temporary access will be measured for payment as each for every private entrance, commercial entrance or road constructed for the purpose of temporary access. If a residential drive, commercial entrance, or road is to be constructed under multiple stages, the aggregate needed to construct the second or subsequent stages will not be measured for payment but shall be included in the cost per each of the type specified."

Revise the second paragraph of Article 402.13 of the Standard Specifications to read:

"Aggregate surface course for temporary access will be paid for at the contract unit price per each for TEMPORARY ACCESS (PRIVATE ENTRANCE), TEMPORARY ACCESS (COMMERCIAL ENTRANCE) or TEMPORARY ACCESS (ROAD).

Partial payment of the each amount bid for temporary access, of the type specified, will be paid according to the following schedule:

- (a) Upon construction of the temporary access, sixty percent of the contract unit price per each, of the type constructed, will be paid.
- (b) Subject to the approval of the Engineer for the adequate maintenance and removal of the temporary access, the remaining forty percent of the Pay Item will be paid upon the permanent removal of the temporary access."

GATE VALVE WITH VAULT:

Description. This work shall consist of furnishing all labor, materials and equipment necessary to install gate valves and valve vaults at the locations shown on the Plans. Gate valves shall be resilient wedge type conforming to the latest edition of AWWA C-509. All gate valves shall be furnished with mechanical or push-on restrained joints (Clow, US Pipe, EBAA Iron, or equal) conforming to ANSI 21.10 or flanged joints conforming to ANSI A21.11. All valves shall have stainless steel bolts at the packing gland and bonnet. Valve bodies shall be of ductile iron with the name or make of manufacturer, size and working pressure plainly cast in raised letters. Gate valves shall be AWWA gate valves as manufactured by Clow, Waterous or approved equal by the engineer and shall be manufactured in the United States. All gate valves shall be equipped with 2-inch square operating nut that shall open to the left (counterclockwise) with the word "open" in ½-

inch letters or larger and arrow (minimum 2 inches long) cast on the nut to indicate direction of opening.

Valve Vaults shall be reinforced precast concrete units. Minimum inside diameter for the vault shall be 5 feet (60") for 4"-12" water mains. Split concrete bottoms will not be permitted. Precast concrete units shall conform to ASTM C-478. Walls shall have a minimum thickness of 6 inches and slab bottoms a minimum of 5 inches. Joints shall be of the tongue and groove type. Provide a concentric cone section, unless otherwise specified on the Plans. All valve vaults shall be water-tight to prevent the infiltration of storm or ground water into the structure. Valve vaults shall not put undue pressure on the water main. The Contractor shall be liable for any costs due to repairing a water main break that may occur within 10 feet of the valve vault for a period of one (1) year after installation. Each valve vault shall be furnished with a Type 1 frame and Type "B" lid. The lid shall be self-sealing and have concealed pick holes to prevent the inflow of surface water into the valve vault. The word "WATER" shall be imprinted in the lid. Valve Vault frames shall be Standard frame and lid for use in paved areas, curb and gutter, or driveways; shall be cast iron, heavy duty construction; and shall be Neenah R-1713 or approved equal.

CONSTRUCTION REQUIREMENTS

Gate valves shall be installed at locations shown on the Plans and according to the manufacturer's recommendations. The Contractor shall complete work in accordance with the Plans, the "Standard Specifications for Water and Sewer Main Construction in Illinois," latest edition and applicable ordinances of the Village of Addison. All gate valves shall be inspected upon delivery in the field to insure proper working order before installation. Valves shall be installed in a vertical position, supported on a solid concrete block. $\frac{3}{4}$ " thick asphalt impregnated fire board expansion joint material shall be placed between the concrete block and the valve.

Granular bedding material shall be required on all valve vaults installed. Granular bedding shall be a minimum 6 inches in thickness and shall extend to the limits of the excavation. Valve vault bedding shall be firmly tamped, made smooth and level to assure uniform contact and support for the base. Granular bedding material shall meet IDOT specifications for CA-6 (crushed stone).

Bituminous materials shall be used to securely seal the joints between the precast sections. Surfaces may be set in full bituminous mastic beds or two rows of resilient, flexible, non-hardening, preformed, bituminous mastic material (Ram-nek or equal). Precast mortar plugs shall not be used to plug lifting holes in valve vaults. Lifting holes and joints shall be thoroughly wetted, then filled with a non-shrink or hydraulic grout. Openings through which pipes enter the valve vault shall be blocked shut using solid concrete blocks, bricks, and non-shrink or hydraulic grout. All grouted areas shall be smoothed, both inside and out, then covered with a bituminous water proofing compound on the outside only.

Any excavation for a valve vault shall be made a minimum of 1-foot greater than the diameter of the structure in order to permit proper patching and compaction of backfill material. If

excavations need to be undercut due to poor soil conditions, the undercut shall provide for a minimum of 3 inches of additional granular bedding.

Backfilling shall not begin until the exterior of the valve vault has been inspected and approved. The space between the sides of the excavation and the outer surface of the valve vault shall be completely backfilled with granular trench backfill if the edge of excavation is within 2 feet of existing or proposed pavement, curb and gutter, sidewalks, paved or unpaved driveways.

Method of Measurement. The work will be measured for payment in place for each gate valve with vault installed.

Basis of Payment. This work will be paid for at the Contract Unit Price for each GATE VALVE WITH VAULT, of the gate valve size specified and valve vault size specified, which price shall include excavation and trench backfill immediately around the structure.

Fire hydrant auxiliary valves will be paid for separately as part of the Pay Item for FIRE HYDRANTS WITH AUXILIARY VALVE AND VALVE BOX.

GATE VALVE WITH VAULT (VALVE ATTACHED TO LINE TEE):

Description. This work shall consist of furnishing all labor, materials and equipment necessary to install gate valves on line tees within valve vaults at the locations shown on the Plans and in accordance with the Detail shown in the Plans. Gate valves shall be resilient wedge type conforming to the latest edition of AWWA C-509. All gate valves shall be furnished with mechanical or push-on restrained joints (Clow, US Pipe, EBAA Iron, or equal) conforming to ANSI 21.10 or flanged joints conforming to ANSI A21.11. All valves shall have stainless steel bolts at the packing gland and bonnet. Valve bodies shall be of ductile iron with the name or make of manufacturer, size and working pressure plainly cast in raised letters. Gate valves shall be AWWA gate valves as manufactured by Clow, Waterous or approved equal by the engineer and shall be manufactured in the United States. All gate valves shall be equipped with 2-inch square operating nut that shall open to the left (counterclockwise) with the word "open" in ½-inch letters or larger and arrow (minimum 2 inches long) cast on the nut to indicate direction of opening.

Water main tees shall meet the requirements of the DUCTILE IRON WATER MAIN FITTINGS special provision and shall be paid for separately as such.

Valve Vaults shall be reinforced precast concrete units. Minimum inside diameter for the vault shall be 6 feet (72"), regardless of water main size. Split concrete bottoms will not be permitted. Precast concrete units shall conform to ASTM C-478. Walls shall have a minimum thickness of 7 inches and slab bottoms a minimum of 6 inches. Joints shall be of the tongue and groove type. Provide an eccentric cone section, with the manhole opening centered over the gate valve. All valve vaults shall be water-tight to prevent the infiltration of storm or ground water into the structure. Valve vaults shall not put undue pressure on the water main. The Contractor shall be liable for any costs due to repairing a water main break that may occur within 10 feet of the valve

vault for a period of one (1) year after installation. Each valve vault shall be furnished with a Type 1 frame and Type "B" lid. The lid shall be self-sealing and have concealed pick holes to prevent the inflow of surface water into the valve vault. The word "WATER" shall be imprinted in the lid. Valve Vault frames shall be Standard frame and lid for use in paved areas, curb and gutter, or driveways; shall be cast iron, heavy duty construction; and shall be Neenah R-1713 or approved equal.

CONSTRUCTION REQUIREMENTS

Gate valves shall be installed at locations shown on the Plans and according to the manufacturer's recommendations. Gate valves shall be installed immediately after the tee on the lateral water main within the valve vault as shown on the Detail in the Plans. The Contractor shall complete work in accordance with the Plans, the "Standard Specifications for Water and Sewer Main Construction in Illinois," latest edition and applicable ordinances of the Village of Addison. All gate valves shall be inspected upon delivery in the field to insure proper working order before installation. Valves shall be installed in a vertical position, supported on a solid concrete block. $\frac{3}{4}$ " thick asphalt impregnated fire board expansion joint material shall be placed between the concrete block and the valve.

The water main tee shall be installed in the center of the valve vault, supported on a solid concrete block, with a $\frac{3}{4}$ " thick board of expansion joint material between the concrete block and the tee. Thrust blocking shall be installed as necessary between the tee and inside wall of the vault.

Granular bedding material shall be required on all valve vaults installed. Granular bedding shall be a minimum 6 inches in thickness and shall extend to the limits of the excavation. Valve vault bedding shall be firmly tamped, made smooth and level to assure uniform contact and support for the base. Granular bedding material shall meet IDOT specifications for CA-6 (crushed stone).

Bituminous materials shall be used to securely seal the joints between the precast sections. Surfaces may be set in full bituminous mastic beds or two rows of resilient, flexible, non-hardening, preformed, bituminous mastic material (Ram-nek or approved equal). Precast mortar plugs shall not be used to plug lifting holes in valve vaults. Lifting holes and joints shall be thoroughly wetted, then filled with a non-shrink or hydraulic grout. Openings through which pipes enter the valve vault shall be blocked shut using solid concrete blocks, bricks, and non-shrink or hydraulic grout. All grouted areas shall be smoothed, both inside and out, then covered with a bituminous water proofing compound on the outside only.

Any excavation for a valve vault shall be made a minimum of 1-foot greater than the diameter of the structure in order to permit proper patching and compaction of backfill material. If excavations need to be undercut due to poor soil conditions, the undercut shall provide for a minimum of 3 inches of additional granular bedding.

Backfilling shall not begin until the exterior of the valve vault has been inspected and approved. The space between the sides of the excavation and the outer surface of the valve vault

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shall be completely backfilled with granular trench backfill if the edge of excavation is within 2 feet of existing or proposed pavement, curb and gutter, sidewalks, paved or unpaved driveways.

Method of Measurement. The work will be measured for payment in place for each gate valve with vault with the valve attached to the line tee installed.

Basis of Payment. This work will be paid for at the Contract Unit Price for each GATE VALVE WITH VAULT (VALVE ATTACHED TO LINE TEE), of the gate valve size and valve vault diameter specified, which price shall include excavation and trench backfill immediately around the structure.

Water main tees shall be paid for separately as DUCTILE IRON WATER MAIN TEE, of the size specified in accordance with the DUCTILE IRON WATER MAIN FITTINGS special provision.

Fire hydrant auxiliary valves will be paid for separately as part of the Pay Item for FIRE HYDRANTS WITH AUXILIARY VALVE AND VALVE BOX.

TREE TUNNEL:

Description. The work of this Pay Item shall be in accordance with Section 561 and these Special Provisions and shall consist of tree tunneling; complete in place by auguring method, including auguring holes, providing and installing pipes, and sandfilling the annular space between the tunnel walls and the water main pipe.

Removal and replacement of casing to avoid obstructions, achieve correct slope, elevation, and boring shall be done at no additional cost to the Contract.

The work may also be done by hydro-boring or other directional boring/drilling methods, subject to approval at pre-construction meeting.

This Pay Item does not include the water main pipe within the tunnel, which is paid for as DUCTILE IRON WATER MAIN.

Method of Measurement. The work will be measured in lineal feet along the centerline of the water main pipe, for length of tunnel.

Basis of Payment. The work will be paid for at the Contract Unit Price per lineal foot for TREE TUNNEL - 4" TO 12" DIAMETER PIPE.

HORIZONTAL DIRECTIONALLY DRILLED DUCTILE IRON WATER MAIN:

Description. This work shall consist of furnishing all labor, materials and equipment necessary to install ductile iron water main by the horizontal directional drilling method of pipe installation, of the size and joint type specified to the alignment, grade and locations shown on the Plans.

CONSTRUCTION REQUIREMENTS

SUMMARY: Provide ductile iron water main pipe and install by trenchless horizontal directional drilling method as shown on the Drawings; as specified in DUCTILE IRON WATER MAIN in these Special Provisions, as specified in this section of the Special Provisions herein, in accordance with Section 561 of the "Standard Specifications", in accordance with the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois", and as needed for a complete installation.

Provide labor, materials, tools, equipment and chemicals necessary to perform all work and testing specified in this Section.

SUBMITTALS: Provide detailed plan of means and methods to maintain clean and safe conditions in the event drilling material escapes to surface or adjacent storm sewers, including list of material and equipment that will be on-site during drilling and pipe insertion.

GENERAL CONSTRUCTION REQUIREMENTS: Provide all excavation, pits, installation and removal of tight sheeting, backfilling of pits, compaction of excavated materials, and providing and compacting granular backfill materials where necessary. Use an adequate number of workmen who are thoroughly trained and experienced in the necessary crafts, and who are completely familiar with the specified requirements and methods needed for proper performance of the work of this Section.

DIRECTIONAL DRILLING SYSTEM: Provide hydraulically or pneumatically operated, fluid-assisted, remote guided drilling system capable of installing pipe indicated on the Drawings by trenchless methods.

1. Provide compressors, pumps, apparatus, tools, and all devices certified as suitable by the system manufacturer to install the new pipe without damaging or stressing the pipe.
2. Provide recovery system that will recover bentonite slurries or other drilling fluids without releasing the slurry onto the surrounding ground or water surfaces.
3. Provide certification from pipe manufacturer that the proposed material and strength classification is appropriate for application.

DUCTILE IRON PIPE: Provide ductile iron pipe complying with ANSI A21.51, thickness Class 52, with joints complying with ANSI A21.11.

1. Use cement lining complying with ANSI/AWWA C104/A21.4, standard thickness.
2. Provide restrained joint pipe system that utilizes one of the following methods:
 - a. Lock rings welded into place around pipe barrel.
 - b. Bolted rings installed around pipe barrels that fit inside pipe bells.
 - c. Acceptable products:
 - (1) American Flex-Ring or Lok-Ring.

- (2) Clow Tyton Joint – Super-Lock.
- (3) U.S. Pipe TR-Flex Gripper.
- (4) Griffin Bolt Lok or Snap Lok.

POLYETHYLENE SHEET: Comply with ANSI/AWWA C105/A21.5-99.

1. Thickness: Linear low-density polyethylene film (minimum 8 mils) or High-density cross laminated polyethylene film (minimum 4 mils).
2. Markings: the following information will be clearly marked on the sheet at minimum increments of 2 feet along its length.
 - a. Manufacturer's name or trademark.
 - b. Year of manufacture.
 - c. Minimum thickness and material type (LLDPE or HDCLPE).
 - d. Applicable range of nominal pipe diameter size(s).
 - e. Warning – Corrosion Protection – Repair Any Damage.
3. Comply with requirements of ANSI/AWWA C105/A21.5-99.
 - a. Place polyethylene sheet around the entire circumference of the pipe, tie or tape sheet securely to prevent displacement during backfilling.
 - b. Use spiral wrapping extending the entire length of the pipe or circumferential wrapping at 2-foot intervals.
 - c. Provide double wrap at first two pipe sections at pull head end of pipe consisting of one layer of 8 mil LLDPE and a second layer of HDCLPE with a minimum thickness of 4 mils for the outer wrap.
 - d. Comply with recommendations of DIPRA's article for "Horizontal Directional Drilling with Ductile Iron Pipe" in installation and wrapping of polyethylene sheet.

INSTALLATION AND RECEIVING PIT: Comply with OSHA requirements and install sheeting and fencing as required to protect the public.

1. Although most horizontal directional drilling is done without the use of pits, if pits are required, comply with the following criteria.
2. Provide pits as required to install and receive pipes.
 - a. Provide tight sheeting where required to provide protection to public, permitting agency and public property, and adjacent utilities.
 - b. Comply with OSHA requirements for type, installation, and removal of sheeting.
 - c. Provide fencing around pits to secure the area and to provide protection to the public.
3. Provide pits of length and width as necessary to install pipes and sized to fit area available for Work.
4. Provide dewatering as required to allow excavation of pits and installation of pipes.
 - a. Provide protection to environment from erosion or siltation resulting from all pumping operations.

5. Backfilling of pits:
 - a. Backfill with compacted granular backfill materials where required.
 - b. Remove all construction debris, materials, excess excavated material, and sheeting from construction area upon completion of the Work.

LOCATOR WIRE: Provide 7x19SS (T304) PVC coated stainless steel Aircraft Cable sized to withstand pull required, but of minimum 3/16-inch diameter.

SURFACE CONDITIONS: Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

1. Protect existing utilities indicated or made known.
2. Protect trees and shrubs by plank wrappers securely wired in place or by providing a fence around the tree or shrub of sufficient distance away and of sufficient height so trees and shrubs will not be damaged in any way as part of this Work.
 - a. Do not permit any equipment to operate within 5 feet of any trees or shrubs that are to remain or in a manner as to harm overhanging branches.
3. Protection of persons and property:
 - a. Barricade open depressions and holes occurring as part of this Work, and post warning lights on property adjacent to or with public access.
 - b. Operate warning lights during hours from dusk to dawn each day and as otherwise required.
 - c. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by operations under this Section.
4. Use means necessary to prevent dust from becoming a nuisance to the public, to neighbors, and to other work being performed on or near the work areas.
5. Maintain access to the work areas at all times.
6. Provide protection to environment, public and private property, and public or private utilities from drilling mud that is utilized as lubricant or hole support during drilling and pipe insertion.
 - a. Provide vacuum trucks and apparatus of sufficient size and quantity to reclaim all drilling mud discharged during operations.
 - b. Provide trucks, end loaders, and any other equipment and manpower necessary to maintain a clean and safe work site during operation.

PIPE INSTALLATION: Install ductile iron pipe by pulling the pipe into place.

1. Provide winch systems designed to protect structures, provide directional stability, and pull pipe from insertion point to exit point without causing damage to the pipe.
2. Insert pipe in a continuous operation from point to point.

3. Provide silencers, mufflers, or other devices required to reduce noise from compressors and other equipment to meet limits as outlined by Owner's local ordinances.
4. Use only the restrained type joints allowed above.
5. Provide stainless steel PVC coated Aircraft Cable at each boring location for the total length of pipe.
 - a. Connect locator wire to ductile iron water main pipe with a "hard" connection at each end of horizontal directionally drilled pipe.
 - b. Do not provide or install conductivity wedges, used for ductile iron water main pipe installed in open cut trenches, in horizontal directionally drilled ductile iron water main pipe.
6. Mark location of boring pipe termination points on "Job Set" of plans, measured from adjacent permanent structures or iron pins.

TESTING: Comply with testing requirements outlined in other Sections of these Specifications.

1. Repair any defects or leaks in the pipe discovered during testing.
2. Retest all repaired sections until they meet all testing and inspection requirements.

Method of Measurement. This work will be measured in lineal feet along the centerline of the pipe, and the measurement shall extend from the end of the drilling and receiving pits located adjacent to ductile iron water main pipe installed in open cut trench.

Basis of Payment. This work will be paid for at the contract unit price per lineal foot for HORIZONTAL DIRECTIONALLY DRILLED DUCTILE IRON WATER MAIN, of the pipe sizes, joint type and material specified, regardless of depth, which price shall include polyethylene encasement, excavation for drilling and receiving pits, bedding and initial pipe covering in the drilling and receiving pits, testing and disinfection.

Water main fittings shall be paid for separately as DUCTILE IRON WATER MAIN FITTINGS.

All trench backfill with granular backfill materials above the granular pipe bedding and cover material shall be included in the cost of the drilling and receiving pits, which are included in the cost of the HORIZONTAL DIRECTIONALLY DRILLED DUCTILE IRON WATER MAIN.

PRECONSTRUCTION VIDEO RECORDING:

This work consists of providing color audio/video recording of construction areas prior to the start of construction, including coverage of all areas that will be affected by the construction or installation of pipelines such as driveways, fences, trees or plantings, or other items that may be damaged or have to be removed and replaced as a part of the construction.

Each recording shall begin with current date, project name, and Owner, followed by descriptions of the general location, street names, addresses, and data that describes location and subject of viewing. The video recording along the project limits shall capture no more than 48 feet of project length per minute. Separate recordings shall be provided for westbound and eastbound Army Trail Boulevard. Panning rates and zoom-in or zoom-out rates shall be controlled to provide clarity of object during playback. The finished product shall be provided with bright, sharp, clear pictures and accurate colors free from distortion, tearing, rolls, or other forms of picture imperfection. The audio shall have proper volume and clarity. All recording shall be done at good times of visibility, and when no more than 10 percent of snow or fallen leaf cover is present. The areas shall not be recorded earlier than 6 months prior to the start of construction.

The recording shall be submitted to the Owner or the Owner's Engineer for review prior to commencement of any construction, and receive acceptance of recordings prior to commencement of construction. Any areas found not acceptable to the Owner shall be re-recorded at no additional cost to the contract. The final recording shall be transferred onto standard definition DVD. Two (2) copies shall be provided to the Village.

Method of Measurement. This work will be measured for payment on a lump sum basis.

Basis of Payment. This work will be paid for at contract lump sum price for PRECONSTRUCTION VIDEO TAPING

USE OF RAP (DIST 1):

Effective: January 1, 2007

Revised: July 1, 2009

In Article 1030.02(g) of the Standard Specifications, 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) results from the cold milling or crushing of an existing hot-mix asphalt (HMA) pavement. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction. The contractor can also request that a processed pile be tested by the Department to determine the aggregate quality as described in Article 1031.04, herein.

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 and size as listed below (i.e. "Homogenous Surface").

Prior to milling or removal of an HMA pavement, the Contractor may request the District to provide verification of the existing mix composition to clarify appropriate stockpile.

- (a) 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.
- (b) Conglomerate 5/8. Conglomerate 5/8 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 5/8 RAP shall be processed prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen.
- (c) Conglomerate 3/8. Conglomerate 3/8 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 B quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate 3/8 RAP shall be processed prior to testing by crushing to where all RAP shall pass the 3/8 in (9.5 mm) or smaller screen.
- (d) Conglomerate Variable Size. Conglomerate variable size RAP 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 B quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate variable size RAP shall be processed prior to testing by crushing and screening to where all RAP is separated into various sizes. All the conglomerate variable size RAP shall pass the 3/4 in. (19 mm) screen and shall be a minimum of two sizes.
- (e) 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.

- (f) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP 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 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 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.

- (a) Testing Conglomerate 3/8 and Conglomerate Variable Size. In addition to the requirements above, conglomerate 3/8 and variable size RAP shall be tested for maximum theoretical specific gravity (G_{mm}) at a 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).
- (b) 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 | Homogeneous/ Conglomerate | Conglomerate "D" Quality |
|-------------------|------------------------------|--------------------------|
| 1 in. (25 mm) | | ± 5% |
| 3/4 in. (19 mm) | | |
| 1/2 in. (12.5 mm) | ± 8% | ± 15% |

| Parameter | Homogeneous/ Conglomerate | Conglomerate "D" Quality |
|------------------|------------------------------|--------------------------|
| No. 4 (4.75 mm) | ± 6% | ± 13% |
| No. 8 (2.36 mm) | ±5% | |
| No. 16 (1.18 mm) | | ± 15% |
| No. 30 (600 μm) | ± 5.0% | |
| No. 200 (75 μm) | ± 2.0% | ± 4.0% |
| Asphalt Binder | ± 0.4% ^{1/} | ± 0.5% |
| Gmm | ±0.02% ^{2/} | |
| Gmm | ±0.03% ^{3/} | |

- 1/ The tolerance for conglomerate 3/8 shall be ± 0.3%.
- 2/ Applies only to conglomerate 3/8. When variation of the G_{mm} exceeds the ± 0.02% tolerance, a new conglomerate 3/8 stockpile shall be created which will also require an additional mix design.
- 3/ Applies only to conglomerate variable size. When variation of the G_{mm} exceeds the ± 0.03 tolerance, a new conglomerate variable size stockpile shall be created which will also require an additional mix design.

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 shall not be used in HMA unless the RAP 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. The quality of the RAP shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.

- (a) RAP from Class I, Superpave (High ESAL), or HMA (High ESAL) surface mixtures are designated as containing Class B quality coarse aggregate.
- (b) RAP from Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder and IL-9.5L surface mixtures are designated as Class D quality coarse aggregate.
- (c) 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.

- (d) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

Aggregate Quality Testing of RAP:

The processed pile shall have a maximum tonnage of 5,000 tons (4500 metric tons). The pile shall be crushed and screened with 100 percent of the material passing the 3/4 in. (19 mm) sieve. The pile shall be tested for AC content and gradation and shall conform to all requirements of Article 1031.03 Testing, herein. Once the uniformity of the gradation and AC content has been established, the Contractor shall obtain a representative sample with district oversight of the sampling. This sample shall be no less than 50 lbs (25 kg) and this sample shall be delivered to a Consultant Lab, prequalified by the Department for extraction testing according to Illinois Modified AASHTO T 164. After the AC has been extracted, the Consultant Lab shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid directly 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 in HMA. The use of RAP 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) Use in HMA Surface Mixtures (High and Low ESAL). RAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be either homogeneous or conglomerate 3/8 or variable size in which the coarse aggregate is Class B quality or better.
- (c) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be homogeneous, conglomerate 5/8, or conglomerate 3/8, conglomerate variable size, in which the coarse aggregate is Class C quality or better.
- (d) Use in Shoulders and Subbase. RAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be homogeneous, conglomerate 5/8, conglomerate 3/8, conglomerate variable size, or conglomerate DQ.
- (e) The use of RAP shall be a contractor's option when constructing HMA in all contracts. When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in the table for a given N Design.

Maximum Mixture RAP Percentage

| HMA Mixtures ^{1/3/} | | Maximum % Rap | |
|------------------------------|------------------------|---------------------|------------------|
| Ndesign | Binder/Leveling Binder | Surface | Polymer Modified |
| 30 | 30/40 ^{2/} | 30 | 10 |
| 50 | 25/40 ^{2/4/} | 15/25 ^{2/} | 10 ^{4/} |
| 70 | 25/30 ^{2/} | 10/20 ^{2/} | 10 |
| 90 | 10/15 ^{2/} | 10/15 ^{2/} | 10 |
| 105 | 10/15 ^{2/} | 10/15 ^{2/} | 10 |

- 1/ For HMA Shoulder and Stabilized Sub-Base (HMA) N-30, the amount of RAP shall not exceed 50% of the mixture.
- 2/ Value of Max % RAP If 3/8 Rap or conglomerate variable size RAP is utilized.
- 3/ When RAP exceeds 20% the AC shall be PG58-22. However, when RAP exceeds 20% and is used in full depth HMA pavement the AC shall be PG58-28.
- 4/ Polymerized Leveling Binder, IL-4.75 is 15%.

1031.06 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP material meeting the above detailed requirements.

RAP designs shall be submitted for volumetric verification. If additional RAP 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 stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP 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, 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 control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP and either switch to the virgin aggregate design or submit a new RAP design. When producing mixtures containing conglomerate 3/8 or conglomerate variable size RAP, a positive dust control system shall be utilized.

HMA plants utilizing RAP shall be capable of automatically recording and printing the following information.

(a) Drier 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). 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 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 material (per size) as a percent of the total mix to the nearest 0.1 unit.
 - (8) Aggregate and RAP moisture compensators in percent as set on the control panel (required when accumulated or individual aggregate and RAP 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) Individual RAP Aggregate weight to the nearest pound (kilogram).
 - (6) Virgin asphalt binder weight to the nearest pound (kilogram).
 - (7) Residual asphalt binder of each RAP size 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 "Other". 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."

FINE AGGREGATE FOR HOT- MIX ASPHALT (HMA) (D-1):

Effective: May 1, 2007

Revised: May 1, 2009.

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 | 1.16 mm | 0.075 mm |
| FA 22 | 100 | 6/ | 6/ | 8±8 | 2±2 |

6/ For the fine aggregate gradations FA 22, the aggregate producer shall set the midpoint percent passing and a range of ± 10% shall be applied. The midpoint shall not be changed without Department approval.

Revise Article 1003.03 (c) of the Standard Specifications to read:

"Gradation. The fine aggregate gradation for all HMA shall be FA1, FA 2, FA 20, FA 21 or FA 22. When Reclaimed Asphalt Pavement (RAP) is incorporated in the HMA design, the use of FA 21 Gradation will not be permitted.

COARSE AGGREGATE FOR HOT-MIX ASPHALT (HMA) (D-1):

Effective: March 16, 2009

Revise Article 1004.03 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 | Gravel Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete |
| HMA All Other | Stabilized Subbase Shoulders | or Gravel Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag Crushed Concrete The coarse aggregate for stabilized subbase, if approved by the Engineer, may be produced by blending aggregates according to Article 1004.04(a). |
| HMA High ESAL Low ESAL | IL-25.0, IL-19.0, or IL-19.0L | Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag (ACBF) |
| HMA High ESAL Low ESAL | C Surface IL-12.5, IL-9.5, or IL-9.5L | Gravel (only when used in IL-9.5L) Crushed Gravel Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag (except when used as leveling binder) |
| HMA High ESAL | D Surface IL-12.5 or IL-9.5 | Crushed Gravel Crushed Stone (other than Limestone) Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag (except when used as leveling binder) Limestone may be used in Mixture D if blended by volume |

| Use | Mixture | Aggregates Allowed |
|------------------|-----------------------------------|---|
| | | <p>in the following coarse aggregate percentages: Up to 25% Limestone with at least 75% Dolomite. Up to 50% Limestone with at least 50% any aggregate listed for Mixture D except Dolomite. Up to 75% Limestone with at least 25% Crushed Slag (ACBF) or Crushed Sandstone.</p> |
| HMA High ESAL | E Surface IL-12.5 or IL-9.5 | <p>Crushed Gravel Crushed Stone (other than Limestone and Dolomite) Crushed Sandstone</p> <p>No Limestone. Dolomite may be used in Mixture E if blended by volume</p> |
| | | <p>in the following coarse aggregate percentages: Up to 75% Dolomite with at least 25% Crushed Sandstone, Crushed Slag (ACBF), or Crushed Steel Slag. When Crushed Slag (ACBF) or Crushed Steel Slag are used in the blend, the blend shall contain a minimum of 25% to a maximum of 75% of either Slag by volume. Up to 50% Dolomite with at least 50% of any aggregate listed for Mixture E.</p> <p>If required to meet design criteria, Crushed Gravel or Crushed Stone (other than Limestone or Dolomite) may be blended by volume in the following coarse aggregate percentages: Up to 75% Crushed Gravel or Crushed Stone (other than Limestone or Dolomite) with at least 25% Crushed Sandstone, Crushed Slag (ACBF), or Crushed Steel Slag. When Crushed Slag (ACBF) or Crushed Steel Slag are used in the blend, the blend shall contain a minimum of 25% to a maximum of 50% of either Slag by volume.</p> |
| HMA High ESAL | F Surface IL-12.5 or IL-9.5 | <p>Crushed Sandstone</p> <p>No Limestone.</p> <p>Crushed Gravel, Crushed Concrete, or Crushed Dolomite may be used in Mixture F if blended by volume in the following coarse aggregate percentages: Up to 50% Crushed Gravel, Crushed Concrete or Crushed Dolomite with at least 50% Crushed</p> |

| Use | Mixture | Aggregates Allowed |
|-----|---------|---|
| | | Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or any Other Crushed Stone (to include Granite, Diabase, Rhyolite or Quartzite). When Crushed Slag (ACBF) or Crushed Steel Slag are used in the blend, the blend shall contain a minimum of 50% to a maximum of 75% of either Slag by volume. |

- (b) Quality. For surface courses and binder courses when used as surface course, the coarse aggregate shall be Class B quality or better. For Class A (seal or cover coat), other binder courses, and surface course IL-9.5L (Low ESAL), the coarse aggregate shall be Class C quality or better. For All Other courses, the coarse aggregate shall be Class D quality or better.
- (c) Gradation. The coarse aggregate gradations shall be as listed in the following table.

| Use | Size/Application | Gradation No. |
|-------------------|---|--|
| Class A-1, 2, & 3 | 3/8 in. (10 mm) Seal | CA 16 |
| Class A-1 | 1/2 in. (13 mm) Seal | CA 15 |
| Class A-2 & 3 | Cover | CA 14 |
| HMA High ESAL | IL-25.0 IL-19.0 IL-12.5 IL-9.5 | CA 7 ^{1/} or CA 8 ^{1/} CA 11 ^{1/} CA 16 and/or CA 13 CA 16 |
| HMA Low ESAL | IL-19.0L IL-9.5L | CA 11 ^{1/} CA 16 |
| HMA All Other | Stabilized Subbase or Shoulders | CA-6 ^{2/} , CA 10, or CA 12 |

- 1/ CA 16 or CA 13 may be blended with the gradations listed.
2/ CA-6 will not be permitted in the top lift of shoulders.

TEMPERATURE CONTROL FOR CONCRETE PLACEMENT (DISTRICT ONE):

Effective: May 1, 2007

Delete the second and third sentences of the second paragraph of Article 1020.14(a) of the Standard Specifications.

Special Provisions
070142.40

Village of Addison
Mill Road and Army Trail Boulevard STP Improvements
Section No.: 09-00098-00-RS
Project No.: M-9003(474)

INTERIM COMPLETION DATE:

Work shall be according to the BDE Special Provision COMPLETION DATE (VIA CALENDAR DAYS), except as modified herein:

Add the following to the end of the special provision:

"The Village of Addison requests the calendar days to begin on or before June 24, 2010; the watermain installation be complete before August 20, 2010 (69 Calendar Days);

Special Provisions
070142.40

Village of Addison
Mill Road and Army Trail Boulevard STP Improvements
Section No.: 09-00098-00-RS
Project No.: M-9003(474)

TEMPORARY PAVEMENT MARKING:

Work shall be according to Section 703, except as modified herein:

703.01 Description. Add the following to the end of this Article:

"This work shall consist of furnishing, installing, maintaining and removing temporary pavement markings."

CONSTRUCTION REQUIREMENTS

703.05 Temporary Pavement Markings. Add the following to the end of this Article:

"The contractor shall utilize paint for temporary pavement markings on all intermediate courses unless determined by the Engineer."

703.06 Method of Measurement. Add the following to the end of the Article:

"Temporary pavement markings of the various line widths will be measured for payment in feet in place and accepted.

Temporary pavement markings letters and symbols conforming to the sizes and dimensions specified will be measured for payment in square feet in place and accepted.

Temporary pavement marking maintenance will not be measured for payment unless determined by the Engineer."

703.07 Basis of Payment. Add the following to the end of the Article:

"This work will be paid for at the contract unit price per foot for TEMPORARY PAVEMENT MARKING of the line width specified, and at the contract unit price per square foot for TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS."

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

SPECIAL PROVISION
FOR
COOPERATION WITH UTILITIES

Effective: January 1, 1999
Revised: January 1, 2007

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

Replace Article 105.07 of the Standard Specifications with the following:

"105.07 Cooperation with Utilities. 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.

When the plans or special provisions include information pertaining to the location of underground utility facilities, such information represents only the opinion of the Department as to the location of such utilities and is only included for the convenience of the bidder. The Department assumes no responsibility in respect to the sufficiency or the accuracy of the information shown on the plans relative to the location of the underground utility facilities.

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 existing 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. When utility adjustments must be performed in conjunction with construction, the utility adjustment work will be shown on the plans and/or covered by Special Provisions.

When the Contractor discovers a utility has not been adjusted by the owner or the owner's representative as indicated in the contract documents, or the utility is not shown on the plans or described in the Special Provisions as to be adjusted in conjunction with construction, the Contractor shall not interfere with said utility, and 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.

All necessary adjustments, as determined by the Engineer, of utilities not shown on the plans or not identified by markers, will be made at no cost to the Contractor except traffic structures, light poles, etc., that are normally located within the proposed construction limits as hereinafter defined will not be adjusted unless required by the proposed improvement.

(a) Limits of Proposed Construction for Utilities Paralleling the Roadway. For the purpose of this Article, limits of proposed construction for utilities extending in the same longitudinal direction as the roadway, shall be defined as follows:

(1) The horizontal limits shall be a vertical plane, outside of, parallel to, and 600 mm (2 ft) 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 1.2 m (4 ft) 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 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. For the purpose of this Article, limits of proposed construction for utilities crossing the roadway in a generally transverse direction shall be defined as follows:

(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.

The Contractor may make arrangements for adjustment of utilities outside of the limits of proposed construction provided the Contractor furnishes the Department with a signed agreement with the utility owner covering the adjustments to be made. The cost of any adjustments made outside the limits of proposed construction shall be the responsibility of the Contractor unless otherwise provided.

The Contractor shall request all utility owners to field locate their facilities according to Article 107.31. The Engineer may make the request for location from the utility after receipt of notice from the Contractor. On request, the Engineer will make an inspection to verify that the utility company has field located its facilities, but will not assume responsibility for the accuracy of such work. The Contractor shall be responsible for maintaining the excavations or markers provided by the utility owners. This field location procedure may be waived if the utility owner has stated in writing to the Department it is satisfied the construction plans are sufficiently accurate. If the utility owner does not submit such statement to the Department, and they do not field locate their facilities in both horizontal and vertical alignment, 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 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 orally and in writing.

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.

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.

No additional compensation will be allowed for any delays, inconvenience, or damage sustained by the Contractor due to any interference from the said utility facilities or the operation of relocating the said utility facilities.

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

SPECIAL PROVISION
FOR
INSURANCE

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

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

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

Village of Addison, Illinois

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

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 ($Na_2O + 0.658K_2O$) 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 or Coarse Aggregate Blend ASTM C 1260 Expansion | Fine Aggregate or Fine Aggregate Blend 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 ≤ 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 or Coarse Aggregate Blend ASTM C 1260 Expansion | Fine Aggregate or Fine Aggregate Blend ASTM C 1260 Expansion | | |
| | $\leq 0.16\%$ | $> 0.16\% - 0.27\%$ | $> 0.27\%$ |
| | $\leq 0.16\%$ | Group I | Group II |
| $> 0.16\% - 0.27\%$ | 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 ≤ 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.

80213

**APPROVAL OF PROPOSED BORROW AREAS, USE AREAS, AND/OR WASTE AREAS
INSIDE ILLINOIS STATE BORDERS (BDE)**

Effective: November 1, 2008

Revise the title of Article 107.22 of the Standard Specifications to read:

**"107.22 Approval of Proposed Borrow Areas, Use Areas, and/or Waste Areas Inside
Illinois State Borders."**

Add the following sentence to the end of the first paragraph of Article 107.22 of the Standard Specifications:

"Proposed borrow areas, use areas, and/or waste areas outside of Illinois shall comply with Article 107.01."

80207

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_P = Bituminous Price Index, as published by the Department for the month the work is performed, \$/ton (\$/metric ton).

BPI_L = Bituminous Price Index, as published by the Department for the month prior to the letting, \$/ton (\$/metric ton).

%AC_V = Percent of virgin Asphalt Cement in the Quantity being adjusted. For HMA mixtures, the % AC_V 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_V and undiluted emulsified asphalt will be considered to be 65% AC_V.

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:** _____

80173

CEMENT (BDE)

Effective: January 1, 2007

Revised: April 1, 2009

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 ASTM C 150, and shall meet the standard physical and chemical requirements. Type I or Type II may be used for cast-in-place, precast, and precast prestressed concrete. Type III may be used according to Article 1020.04, or when approved by the Engineer. All other cements referenced in ASTM C 150 may be used when approved by the Engineer.

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. The total of all inorganic processing additions shall be a maximum of 4.0 percent by weight (mass) of the cement. However, a cement kiln dust inorganic processing addition shall be limited to a maximum of 1.0 percent. Organic processing additions shall be limited to grinding aids that improve the flowability of cement, reduce pack set, and improve grinding efficiency. Inorganic processing additions shall be limited to granulated blast-furnace slag according to the chemical requirements of AASHTO M 302, Class C 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 ASTM C 595 and shall meet the standard physical and chemical requirements. Type IP may be used for cast-in-place, precast, and precast prestressed concrete, except when Class PP concrete is used. The pozzolan constituent for Type IP shall be a maximum of 21 percent of the weight (mass) of the portland-pozzolan cement.

For cast-in-place construction, portland-pozzolan cement shall not be used in concrete mixtures when the air temperature is below 40 °F (4 °C) without permission of the Engineer. If permission is given, the mix design strength requirement may require the Contractor to increase the cement or eliminate the cement factor reduction for a water-

reducing or high range water-reducing admixture which is permitted according to Article 1020.05(b).

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids as defined in (a) above. Inorganic processing additions shall be limited to cement kiln dust at a maximum of 1.0 percent.

- (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 ASTM C 595 and shall meet the standard physical and chemical requirements. Type IS portland blast-furnace slag cement may be used for cast-in-place, precast, and precast prestressed concrete, except when Class PP concrete is used. The blast-furnace slag constituent for Type IS shall be a maximum of 25 percent of the weight (mass) of the portland blast-furnace slag cement.

For cast-in-place construction, portland blast-furnace slag cement shall not be used in concrete mixtures when the air temperature is below 40 °F (4 °C) without permission of the Engineer. If permission is given, the mix design strength requirement may require the Contractor to increase the cement or eliminate the cement factor reduction for a water-reducing or high range water-reducing admixture which is permitted according to Article 1020.05(b).

The total of all organic processing additions shall be a maximum of 1.0 percent by weight (mass) of the cement. Organic processing additions shall be limited to grinding aids as defined in (a) above. Inorganic processing additions shall be limited to cement kiln dust at a maximum of 1.0 percent.

- (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 ASTM C 191.
- (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 ASTM C 109.
- (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 AASHTO T 161, Procedure B.
- (e) Calcium Aluminate Cement. Calcium aluminate cement shall be used only where specified by the Engineer. The cement shall meet the standard physical requirements for Type I cement according to ASTM C 150, except the time of setting shall not apply. The chemical requirements shall be determined according to ASTM C 114 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."

80166

COMPLETION DATE (VIA CALENDAR DAYS) (BDE)

Effective: April 1, 2008

The Contractor shall complete all work on or before the completion date of this contract which will be based upon 138 calendar days.

The completion date will be determined by adding the specified number of calendar days to the date the Contractor begins work, or to the date ten days after execution of the contract, whichever is the earlier, unless a delayed start is granted by the Engineer.

80198

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 overlayer 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."

80094

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 ≤ 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."

80226

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.

80237

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.

80239

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000

Revised: January 1, 2010

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 13 % 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.

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 the good faith efforts of the bidder 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 commits 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 commit 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 and 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 why good faith efforts have not been found.
- (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 issue of whether an adequate good faith effort was made to meet the contract goal. 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 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.

80029

DOWEL BARS (BDE)

Effective: April 1, 2007

Revised: January 1, 2008

Revise the fifth and sixth sentences of Article 1006.11(b) of the Standard Specifications to read:

“The bars shall be epoxy coated according to AASHTO M 284, except the thickness of the epoxy shall be 7 to 12 mils (0.18 to 0.30 mm) and patching of the ends will not be required. The epoxy coating applicator shall be certified according to the current Bureau of Materials and Physical Research Policy Memorandum, “Epoxy Coating Plant Certification Procedure”. The Department will maintain an approved list.”

80178

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.”

80189

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.”

80249

HMA - HAULING ON PARTIALLY COMPLETED FULL-DEPTH PAVEMENT (BDE)

Effective: January 1, 2008

Revise Article 407.08 of the Standard Specifications to read:

“407.08 Hauling on the Partially Completed Full-Depth Pavement. Legally loaded trucks will be permitted on the partially completed full-depth HMA pavement only to deliver HMA mixture to the paver, provided the last lift has cooled a minimum of 12 hours. Hauling shall be limited to the distances shown in the following tables. The pavement surface temperature shall be measured using an infrared gun. The use of water to cool the pavement to permit hauling will not be allowed. The Contractor’s traffic pattern shall minimize hauling on the partially completed pavement and shall vary across the width of the pavement such that “tracking” of vehicles, one directly behind the other, does not occur.

| MAXIMUM HAULING DISTANCE FOR PAVEMENT SURFACE TEMPERATURE BELOW 105 °F (40 °C) | | | | |
|---|--------------------------------|-----------------------|---------------------------|------------------------|
| Total In-Place Thickness Being Hauled On, in. (mm) | Thickness of Lift Being Placed | | | |
| | 3 in. (75 mm) or less | | More than 3 in. (75 mm) | |
| | Modified Soil Subgrade | Granular Subbase | Modified Soil Subgrade | Granular Subbase |
| 3.0 to 4.0 (75 to 100) | 0.75 miles (1200 m) | 1.0 mile (1600 m) | 0.50 miles (800 m) | 0.75 miles (1200 m) |
| 4.1 to 5.0 (101 to 125) | 1.0 mile (1600 m) | 1.5 miles (2400 m) | 0.75 miles (1200 m) | 1.0 mile (1600 m) |
| 5.1 to 6.0 (126 to 150) | 2.0 miles (3200 m) | 2.5 miles (4000 m) | 1.5 miles (2400 m) | 2.0 miles (3200 m) |
| 6.1 to 8.0 (151 to 200) | 2.5 miles (4000 m) | 3.0 miles (4800 m) | 2.0 miles (3200 m) | 2.5 miles (4000 m) |
| Over 8.0 (200) | No Restrictions | | | |

| MAXIMUM HAULING DISTANCE FOR PAVEMENT SURFACE TEMPERATURE OF 105 °F (40 °C) AND ABOVE | | | | |
|--|--------------------------------|------------------------|---------------------------|------------------------|
| Total In-Place Thickness Being Hauled On, in. (mm) | Thickness of Lift Being Placed | | | |
| | 3 in. (75 mm) or less | | More than 3 in. (75 mm) | |
| | Modified Soil Subgrade | Granular Subbase | Modified Soil Subgrade | Granular Subbase |
| 3.0 to 4.0 (75 to 100) | 0.50 miles (800 m) | 0.75 miles (1200 m) | 0.25 miles (400 m) | 0.50 miles (800 m) |
| 4.1 to 5.0 (101 to 125) | 0.75 miles (1200 m) | 1.0 mile (1600 m) | 0.50 miles (800 m) | 0.75 miles (1200 m) |
| 5.1 to 6.0 (126 to 150) | 1.0 mile (1600 m) | 1.5 miles (2400 m) | 0.75 miles (1200 m) | 1.0 mile (1600 m) |
| 6.1 to 8.0 (151 to 200) | 2.0 miles (3200 m) | 2.5 miles (4000 m) | 1.5 miles (2400 m) | 2.0 miles (3200 m) |
| Over 8.0 (200) | No Restrictions | | | |

Permissive hauling on the partially completed pavement shall not relieve the Contractor of his/her responsibility for damage to the pavement. Any portion of the full-depth HMA pavement that is damaged by hauling shall be removed and replaced, or otherwise repaired to the satisfaction of the Engineer.

Crossovers used to transfer haul trucks from one roadway to the other shall be at least 1000 ft (300 m) apart and shall be constructed of material that will prevent tracking of dust or mud on the completed HMA lifts. The Contractor shall construct, maintain, and remove all crossovers."

80194

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.”

80245

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 (includes confined edges) | Unconfined Edge Joint Density Minimum |
|-------------------------------|-------------------|--|---|
| IL-9.5, IL-12.5 | Ndesign ≥ 90 | 92.0 – 96.0% | 90.0% |
| IL-9.5, IL-9.5L, 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, 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.”

80250

HOT-MIX ASPHALT – PLANT TEST FREQUENCY (BDE)

Effective: April 1, 2008

Revised: January 1, 2010

Revise the table in Article 1030.05(d)(2)a. of the Standard Specifications to read:

| "Parameter | Frequency of Tests | Frequency of Tests | Test Method |
|---|--|---|---|
| | High ESAL Mixture Low ESAL Mixture | All Other Mixtures | See Manual of Test Procedures for Materials |
| Aggregate Gradation % passing sieves: 1/2 in. (12.5 mm), No. 4 (4.75 mm), No. 8 (2.36 mm), No. 30 (600 μm) No. 200 (75 μm) Note 1. | 1 washed ignition oven test on the mix per half day of production Note 4. | 1 washed ignition oven test on the mix per day of production Note 4. | Illinois Procedure |
| Asphalt Binder Content by Ignition Oven Note 2. | 1 per half day of production | 1 per day | Illinois-Modified AASHTO T 308 |
| VMA Note 3. | Day's production ≥ 1200 tons: 1 per half day of production Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day) | N/A | Illinois Modified AASHTO R 35 |
| Air Voids Bulk Specific Gravity of Gyratory Sample | Day's production ≥ 1200 tons: 1 per half day of production | 1 per day | Illinois-Modified AASHTO T 312 |

| "Parameter | Frequency of Tests | Frequency of Tests | Test Method |
|-------------------------------------|---|--------------------|---|
| | High ESAL Mixture Low ESAL Mixture | All Other Mixtures | See Manual of Test Procedures for Materials |
| | Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day) | | |
| Maximum Specific Gravity of Mixture | Day's production ≥ 1200 tons: 1 per half day of production | 1 per day | Illinois-Modified AASHTO T 209 |
| | Day's production < 1200 tons: 1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day) | | |

Note 1. The No. 8 (2.36 mm) and No. 30 (600 μm) sieves are not required for All Other Mixtures.

Note 2. The Engineer may waive the ignition oven requirement for asphalt binder content if the aggregates to be used are known to have ignition asphalt binder content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the asphalt binder content.

Note 3. The G_{sb} used in the voids in the mineral aggregate (VMA) calculation shall be the same average G_{sb} value listed in the mix design.

Note 4. The Engineer reserves the right to require additional hot bin gradations for batch plants if control problems are evident."

80201

HOT-MIX ASPHALT – QC/QA ACCEPTANCE CRITERIA (BDE)

Effective: January 1, 2010

Revise Article 1030.05(f)(3) of the Standard Specifications to read:

“(3) Department assurance tests for voids, field VMA, and density.”

80251

HOT-MIX ASPHALT – TRANSPORTATION (BDE)

Effective: April 1, 2008

Revise Article 1030.08 of the Standard Specifications to read:

“1030.08 Transportation. Vehicles used in transporting HMA shall have clean and tight beds. The beds shall be sprayed with asphalt release agents from the Department’s approved list. In lieu of a release agent, the Contractor may use a light spray of water with a light scatter of manufactured sand (FA 20 or FA 21) evenly distributed over the bed of the vehicle. After spraying, the bed of the vehicle shall be in a completely raised position and it shall remain in this position until all excess asphalt release agent or water has been drained.

When the air temperature is below 60 °F (15 °C), the bed, including the end, endgate, sides and bottom shall be insulated with fiberboard, plywood or other approved insulating material and shall have a thickness of not less than 3/4 in (20 mm). When the insulation is placed inside the bed, the insulation shall be covered with sheet steel approved by the Engineer. Each vehicle shall be equipped with a cover of canvas or other suitable material meeting the approval of the Engineer which shall be used if any one of the following conditions is present.

- (a) Ambient air temperature is below 60 °F (15 °C).
- (b) The weather is inclement.
- (c) The temperature of the HMA immediately behind the paver screed is below 250 °F (120 °C).

The cover shall extend down over the sides and ends of the bed for a distance of approximately 12 in. (300 mm) and shall be fastened securely. The covering shall be rolled back before the load is dumped into the finishing machine.”

80202

LIQUIDATED DAMAGES (BDE)

Effective: April 1, 2009

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 | \$ 375 | \$ 500 |
| 100,000 | 500,000 | 625 | 875 |
| 500,000 | 1,000,000 | 1,025 | 1,425 |
| 1,000,000 | 3,000,000 | 1,125 | 1,550 |
| 3,000,000 | 5,000,000 | 1,425 | 1,950 |
| 5,000,000 | 10,000,000 | 1,700 | 2,350 |
| 10,000,000 | And over | 3,325 | 4,650" |

80230

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)” |

80203

MULTILANE PAVEMENT PATCHING (BDE)

Effective: November 1, 2002

Pavement broken and holes opened for patching shall be completed prior to weekend or holiday periods. Should delays of any type or for any reason prevent the completion of the work, temporary patches shall be constructed. Material able to support the average daily traffic and meeting the approval of the Engineer shall be used for the temporary patches. The cost of furnishing, placing, maintaining, removing and disposing of the temporary work, including traffic control, shall be the responsibility of the Contractor.

80082

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 Deficiency Deduction Gravity Adjustment Factors | | | | |
|--|--|-----------------|-------------------|---------------|
| Types of Violations | Soil Disturbed and Not Permanently Stabilized At Time of Violation | | | |
| | < 5 Acres | 5 - 10 Acres | >10 - 25 Acres | > 25 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" |

80180

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.”

80231

PAVEMENT PATCHING (BDE)

Effective: January 1, 2010

Revise the first sentence of the second paragraph of Article 701.17(e)(1) of the Standard Specifications to read:

“In addition to the traffic control and protection shown elsewhere in the contract for pavement, two devices shall be placed immediately in front of each open patch, open hole, and broken pavement where temporary concrete barriers are not used to separate traffic from the work area.”

80254

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.

80022

PERSONAL PROTECTIVE EQUIPMENT (BDE)

Effective: November 1, 2008

Revise the first sentence of Article 701.12 of the Standard Specifications to read:

“All personnel on foot, excluding flaggers, within the highway right-of-way shall wear a fluorescent orange, fluorescent yellow/green, or a combination of fluorescent orange and fluorescent yellow/green vest meeting the requirements of ANSI/ISEA 107-2004 for Conspicuity Class 2 garments.”

80209

PORTLAND CEMENT CONCRETE PLANTS (BDE)

Effective: January 1, 2007

Add the following to Article 1020.11(a) of the Standard Specifications.

“(9) Use of Multiple Plants in the Same Construction Item. The Contractor may simultaneously use central-mixed, truck-mixed, and shrink-mixed concrete from more than one plant, for the same construction item, on the same day, and in the same pour. However, the following criteria shall be met.

- a. Each plant shall use the same cement, finely divided minerals, aggregates, admixtures, and fibers.
- b. Each plant shall use the same mix design. However, material proportions may be altered slightly in the field to meet slump and air content criteria. Field water adjustments shall not result in a difference that exceeds 0.02 between plants for water/cement ratio. The required cement factor for central-mixed concrete shall be increased to match truck-mixed or shrink-mixed concrete, if the latter two types of mixed concrete are used in the same pour.
- c. The maximum slump difference between deliveries of concrete shall be 3/4 in. (19 mm) when tested at the jobsite. If the difference is exceeded, but test results are within specification limits, the concrete may be used. The Contractor shall take immediate corrective action and shall test subsequent deliveries of concrete until the slump difference is corrected. For each day, the first three truck loads of delivered concrete from each plant shall be tested for slump by the Contractor. Thereafter, when a specified test frequency for slump is to be performed, it shall be conducted for each plant at the same time.
- d. The maximum air content difference between deliveries of concrete shall be 1.5 percent when tested at the jobsite. If the difference is exceeded, but test results are within specification limits, the concrete may be used. The Contractor shall take immediate corrective action and shall test subsequent deliveries of concrete until the air content difference is corrected. For each day, the first three truck loads of delivered concrete from each plant shall be tested for air content by the Contractor. Thereafter, when a specified test frequency for air content is to be performed, it shall be conducted for each plant at the same time.
- e. Strength tests shall be performed and taken at the jobsite for each plant. When a specified strength test is to be performed, it shall be conducted for each plant at the same time. The difference between plants for their mean strength shall not exceed 450 psi (3100 kPa) compressive and 80 psi (550 kPa) flexural. The strength standard deviation for each plant shall not exceed 650 psi (4480 kPa) compressive and 110 psi (760 kPa) flexural. The mean and standard deviation requirements shall apply to the test of record. If the strength difference requirements are exceeded, the Contractor shall take corrective action.

- f. The maximum haul time difference between deliveries of concrete shall be 15 minutes. If the difference is exceeded, but haul time is within specification limits, the concrete may be used. The Contractor shall take immediate corrective action and check subsequent deliveries of concrete until the haul time difference is corrected."

80170

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) |

80171

RAISED REFLECTIVE PAVEMENT MARKERS (BDE)

Effective: November 1, 2009

Revise the first sentence of the second paragraph of Article 781.03 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.”

80247

REFLECTIVE SHEETING ON CHANNELIZING DEVICES (BDE)

Effective: April 1, 2007

Revised: November 1, 2008

Revise the seventh paragraph of Article 1106.02 of the Standard Specifications to read:

"At the time of manufacturing, the retroreflective prismatic sheeting used on channelizing devices shall meet or exceed the initial minimum coefficient of retroreflection as specified in the following table. Measurements shall be conducted according to ASTM E 810, without averaging. Sheeting used on cones, drums and flexible delineators shall be reboundable as tested according to ASTM D 4956. Prestriped sheeting for rigid substrates on barricades shall be white and orange. The sheeting shall be uniform in color and devoid of streaks throughout the length of each roll. The color shall conform to the latest appropriate standard color tolerance chart issued by the U.S. Department of Transportation, Federal Highway Administration, and to the daytime and nighttime color requirements of ASTM D 4956.

| Initial Minimum Coefficient of Retroreflection candelas/foot candle/sq ft (candelas/lux/sq m) of material | | | | |
|--|--------------------------|-------|--------|-----------------------|
| Observation Angle (deg.) | Entrance Angle (deg.) | White | Orange | Fluorescent Orange |
| 0.2 | -4 | 365 | 160 | 150 |
| 0.2 | +30 | 175 | 80 | 70 |
| 0.5 | -4 | 245 | 100 | 95 |
| 0.5 | +30 | 100 | 50 | 40" |

Revise the first sentence of the first paragraph of Article 1106.02(c) of the Standard Specifications to read:

"Barricades and vertical panels shall have alternating white and orange stripes sloping downward at 45 degrees toward the side on which traffic will pass."

Revise the third sentence of the first paragraph of Article 1106.02(d) of the Standard Specifications to read:

"The bottom panels shall be 8 x 24 in. (200 x 600 mm) with alternating white and orange stripes sloping downward at 45 degrees toward the side on which traffic will pass."

80183

156

REINFORCEMENT BARS - STORAGE AND PROTECTION (BDE)

Effective: August 1, 2008

Revised: April 1, 2009

Revise Article 508.03 of the Standard Specifications to read:

508.03 Storage and Protection. Reinforcement bars shall be stored off the ground using platforms, skids, or other supports; and shall be protected from mechanical injury and from deterioration by exposure. Epoxy coated bars shall be stored on wooden or padded steel cribbing and all systems for handling shall have padded contact areas. The bars or bundles shall not be dragged or dropped.

When epoxy coated bars are stored in a manner where they will be exposed to the weather more than 60 days prior to use, they shall be protected from deterioration such as that caused by sunlight, salt spray, and weather exposure. The protection shall consist of covering with opaque polyethylene sheeting or other suitable opaque material. The covering shall be secured and allow for air circulation around the bars to minimize condensation under the cover.

Covering of the epoxy coated bars will not be required when the bars are installed and tied, or when they are partially incorporated into the concrete."

80206

SEEDING (BDE)

Effective: July 1, 2004

Revised: January 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 (kg/hectare) |
| 1A Salt Tolerant Lawn Mixture 7/ | Bluegrass Perennial Ryegrass Red Fescue (Audubon, Sea Link, or Epic) Hard Fescue (Rescue 911, Spartan II, or Reliant IV) Fults Salt Grass 1/ or Salty Alkaligrass | 60 (70) 20 (20) 20 (20) 20 (20) 60 (70) |
| 2 Roadside Mixture 7/ | Tall Fescue (Inferno, Tarheel II, Quest, Blade Runner, or Falcon IV) Perennial Ryegrass Creeping Red Fescue Red Top | 100 (110) 50 (55) 40 (50) 10 (10) |
| 2A Salt Tolerant Roadside Mixture 7/ | Tall Fescue (Inferno, Tarheel II, Quest, Blade Runner, or Falcon IV) Perennial Ryegrass Red Fescue (Audubon, Sea Link, or Epic) Hard Fescue (Rescue 911, Spartan II, or Reliant IV) Fults Salt Grass 1/ or Salty Alkaligrass | 60 (70) 20 (20) 30 (20) 30 (20) 60 (70) |
| 3 Northern Illinois Slope Mixture 7/ | Elymus Canadensis (Canada Wild Rye) Perennial Ryegrass Alsike Cover 2/ Desmanthus Illinoensis (Illinois Bundleflower) 2/, 5/ Andropogon Scoparius (Little Bluestem) 5/ Bouteloua Curtipendula (Side-Oats Grama) Fults Salt Grass 1/ or Salty Alkaligrass Oats, Spring Slender Wheat Grass 5/ Buffalo Grass (Cody or Bowie) 4/, 5/, 9/ | 5 (5) 20 (20) 5 (5) 2 (2) 12 (12) 10 (10) 30 (35) 50 (55) 15 (15) 5 (5) |

| "Table 1 - SEEDING MIXTURES | | | |
|-----------------------------|------------------------------------|---|----------|
| 6A | Salt Tolerant Conservation Mixture | Andropogon Scoparius (Little Bluestem) 5/ | 5 (5) |
| | | Elymus Canadensis (Canada Wild Rye) 5/ | 2 (2) |
| | | Buffalo Grass (Cody or Bowie) 4/, 5/, 9/ | 5 (5) |
| | | Vernal Alfalfa 2/ | 15 (15) |
| | | Oats, Spring | 48 (55) |
| | | Fults Salt Grass 1/ or Salty Alkaligrass | 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. 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 * Noxious Weeds No. per oz (kg) | Notes |
| | Max. | Min. | Min. | Max. | Max. Permitted | |
| Alfalfa | 20 | 92 | 89 | 0.50 | 6 (211) | 1/ |

| TABLE II | | | | | | |
|-----------------------------|-----------|-------------|----------------|-----------|----------------------------------|----------------|
| Variety of Seeds | Hard | Purity % | Pure | Weed % | Secondary * | Notes |
| | Seed % | | Live Seed % | | Noxious Weeds No. per oz (kg) | |
| | Max. | Min. | Min. | Max. | Max. Permitted | |
| 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 ⁿ |

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."

80131

SELF-CONSOLIDATING CONCRETE FOR CAST-IN-PLACE CONSTRUCTION (BDE)

Effective: November 1, 2005

Revised: January 1, 2009

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 ± 2 in. (± 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 column segregation index shall be a maximum 15 percent.
- (j) 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-5, 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 slump flow target range shall be submitted. In addition, the design mortar factor may exceed 1.10 and durability test data will be waived.

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, L-box blocking ratio, column segregation index, and hardened visual stability index. For the trial mixture, the slump flow shall be near the midpoint of the proposed slump flow target range.

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, L-box blocking ratio, column segregation index, 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. Verification by the Engineer will include the Contractor's target slump flow range. If applicable, the Engineer will verify the Contractor's maximum J-ring value and minimum L-box blocking ratio.

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. A minimum of one sensor will be required below each point of concrete placement to measure the maximum pressure. The first sensor below the point of concrete placement shall be approximately 12 in. (300 mm) above the base of the formwork. Additional sensors shall be installed above the bottom sensor when the form height is greater than 10.0 ft (3.0 m) above the bottom sensor. The additional sensors shall be installed at a maximum vertical spacing of 10.0 ft (3.0 m). 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 column segregation index test and 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 column segregation index test will not be required to be performed at the jobsite. 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.

80152

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SELF-CONSOLIDATING CONCRETE FOR PRECAST PRODUCTS (BDE)

Effective: July 1, 2004

Revised: January 1, 2007

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 ± 2 in. (± 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 column segregation index shall be a maximum 15 percent.
- (j) The hardened visual stability index shall be a maximum of 1.

1166

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".

80132

SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)

Effective: April 2, 2005

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 in accordance with 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.

This provision shall be incorporated directly or by reference into each subcontract approved by the Department.

80143

TEMPORARY EROSION CONTROL (BDE)

Effective: November 1, 2002

Revised: January 1, 2010

Add the following to Article 280.02 of the Standard Specifications to read:

“(k) Filter Fabric 1080.03”

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 rolled excelsior, products from the Department’s approved list, 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 lower than the bottom of the terminating ends of the ditch side slopes.”

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 according to either Article 251.03 or 251.04 except for any reference to seeding.”

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 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."

Delete the tenth (last) paragraph of Article 280.08 of the Standard Specifications.

Revise the second sentence of the first paragraph of Article 1081.015(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."

80087

THERMOPLASTIC PAVEMENT MARKINGS (BDE)

Effective: January 1, 2007

Revise Article 1095.01(a)(2) of the Standard Specifications to read:

"(2) Pigment. The pigment used for the white thermoplastic compound shall be a high-grade pure (minimum 93 percent) titanium dioxide (TiO₂). The white pigment content shall be a minimum of ten percent by weight and shall be uniformly distributed throughout the thermoplastic compound.

The pigments used for the yellow thermoplastic compound shall not contain any hazardous materials listed in the Environmental Protection Agency Code of Federal Regulations (CFR) 40, Section 261.24, Table 1. The combined total of RCRA listed heavy metals shall not exceed 100 ppm when tested by X-ray fluorescence spectroscopy. The pigments shall also be heat resistant, UV stable and color-fast yellows, golds, and oranges, which shall produce a compound which shall match Federal Standard 595 Color No. 33538. The pigment shall be uniformly distributed throughout the thermoplastic compound."

Revise Article 1095.01(b)(1)e. of the Standard Specifications to read:

"e. Daylight Reflectance and Color. The thermoplastic compound after heating for four hours \pm five minutes at 425 ± 3 °F (218.3 ± 2 °C) and cooled at 77 °F (25 °C) shall meet the following requirements for daylight reflectance and color, when tested, using a color spectrophotometer with 45 degree circumferential/zero degree geometry, illuminant C, and two degree observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm.

White: Daylight Reflectance75 percent min.

*Yellow: Daylight Reflectance45 percent min.

*Shall meet the coordinates of the following color tolerance chart.

| | | | | |
|---|-------|-------|-------|--------|
| x | 0.490 | 0.475 | 0.485 | 0.530 |
| y | 0.470 | 0.438 | 0.425 | 0.456" |

Revise Article 1095.01(b)(1)k. of the Standard Specifications to read:

"k. Accelerated Weathering. After heating the thermoplastic for four hours \pm five minutes at 425 ± 3 °F (218.3 ± 2 °C) the thermoplastic shall be applied to a steel wool abraded aluminum alloy panel (Federal Test Std. No. 141, Method 2013) at a film thickness of 30 mils (0.70 mm) and allowed to cool for 24 hours at room temperature. The coated panel shall be subjected to accelerated weathering

using the light and water exposure apparatus (fluorescent UV - condensation type) for 75 hours according to ASTM G 53 (equipped with UVB-313 lamps).

The cycle shall consist of four hours UV exposure at 122 °F (50 °C) followed by four hours of condensation at 104 °F (40 °C). UVB 313 bulbs shall be used. At the end of the exposure period, the panel shall not exceed 10 Hunter Lab Delta E units from the original material."

80176

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

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

The contractor shall provide on-the-job training aimed at developing full journeyman in the type of trade or job classification involved. The number of trainees to be trained under this contract will be 2. In the event the contractor subcontracts a portion of the contract work, he shall determine how many, if any, of the trainees are to be trained by the subcontractor, provided however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this Training Special Provision is made applicable to such subcontract. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

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

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

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

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

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

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

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

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

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

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

METHOD OF MEASUREMENT The unit of measurement is in hours.

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

20338

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

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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 qualifiable 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.

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.

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.

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.

**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.