



**VILLAGE OF VILLA PARK**

**CONTRACT DOCUMENTS**

**FOR**

**PLYMOUTH STREET IMPROVEMENT PROJECT**

**SIGNED CONTRACT (VILLAGE COPY)**

**PREPARED BY**



Two Pierce Place, Suite 1400  
Itasca, IL 60143  
Phone: 630.773.3900  
Fax: 630.773.3975  
[www.civiltechinc.com](http://www.civiltechinc.com)

**CIVILTECH ENGINEERING, INC.**



**Local Public Agency  
Formal Contract**

PROPOSAL SUBMITTED BY		
Brothers Asphalt Paving, Inc.		
Contractor's Name		
315 Stewart Avenue		
Street		P.O. Box
Addison	IL	60101
City	State	Zip Code

STATE OF ILLINOIS

COUNTY DUPAGE  
VILLAGE OF VILLA PARK  
(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

PROJECT NAME PLYMOUTH STREET IMPROVEMENT  
SECTION NO. N.A.  
TYPES OF FUNDS DCEO FUNDING

SPECIFICATIONS (required)

PLANS (required)

CONTRACT BOND (when required)



County DUPAGE  
Local Public Agency VILLAGE OF VILLA PARK  
Section Number N.A.  
Route PLYMOUTH STREET

1. THIS AGREEMENT, made and concluded the 1st day of October, 2020,  
Month and Year

between the \_\_\_\_\_ Village of Villa Park  
acting by and through its Board of Trustees known as the party of the first part, and  
Brothers Asphalt Paving, Inc. his/their executors, administrators, successors or assigns,  
known as the party of the second part.

2. Witnesseth: That for and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring to these presents, the party of the second part agrees with said party of the first part at his/their own proper cost and expense to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of the Engineer under it.

3. And it is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Route: PLYMOUTH STREET, in the Village of Villa Park, approved by the Village of Villa Park on July 31, 2020, are essential documents of this contract and are a part hereof.  
Date

4. IN WITNESS WHEREOF, The said parties have executed these presents on the date above mentioned.

Attest: [Signature]  
Village Clerk

The Village of Villa Park  
By Albert Butcheris  
Party of the First Part



(If a Corporation)  
Corporate Name Brothers Asphalt Paving, Inc.  
By [Signature]  
President Party of the Second Part

Attest: [Signature]  
Secretary

(If a Co-Partnership)  
\_\_\_\_\_  
Partners doing Business under the firm name of  
\_\_\_\_\_  
Party of the Second Part  
(If an individual)  
\_\_\_\_\_  
Party of the Second Part







IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this 17th day of September A.D. 2020

**PRINCIPAL**

Brothers Asphalt Paving, Inc. (Company Name) \_\_\_\_\_ (Company Name)

By: Natalia Colella (Signature & Title) President \_\_\_\_\_ (Signature & Title)

Attest: Nicola Colella (Signature & Title) Secretary \_\_\_\_\_ (Signature & Title)

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF Illinois  
COUNTY OF DuPage

I, Hina Azam, a Notary Public in and for said county, do hereby certify that

Natalia Colella

Nicola Colella

(Insert names of individuals signing on behalf or PRINCIPAL)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL, 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 17th day of September A.D. 2020

My commission expires April 23, 2024

Hina Azam Notary Public

(SEAL)



**SURETY**

Western Surety Company (Name of Surety)

By: William Reidinger (Signature of Attorney-in-Fact)

STATE OF Illinois  
COUNTY OF DuPage

I, Hina Azam, a Notary Public in and for said county, do hereby certify that

William Reidinger

(Insert names of individuals signing on behalf or SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of 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 17th day of September A.D. 2020

My commission expires April 23, 2024

Hina Azam Notary Public

(SEAL)



Approved this 15th day of October, A.D. 2020

Attest: Annmaria Koppeckey  
Village Clerk

Village of Villa Park  
(Awarding Authority)  
Albert Balthus  
(Chairman/Mayor/President)



# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**William Reidinger, Donna M Tyler, Matthew V Buol, Hina Azam, Karen E Bogard, Joseph Halleran, Rebecca R Alves, Thomas Green, Individually**

of Schaumburg, IL, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 27th day of March, 2018.



WESTERN SURETY COMPANY

Paul T. Bruflat  
Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 27th day of March, 2018, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2021



J. Mohr  
J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 17th day of September, 2020.



WESTERN SURETY COMPANY

L. Nelson  
L. Nelson, Assistant Secretary

**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.







or organization which may be liable to the **Insured** because of injury or damage to which this insurance may also apply; and

- vi. will not voluntarily make a payment, except at its own cost, assume any obligation, or incur any expense, other than for first aid, without the Insurer's prior consent.

### 3. Cooperation

With respect to both **Coverage A - Excess Follow Form Liability** and **Coverage B - Umbrella Liability**, the **Named Insured** will cooperate with the Insurer in addressing all **claims** required to be reported to the Insurer in accordance with this paragraph **O. Notice of Claims/Crisis Management Event/Covered Accident**, and refuse, except solely at its own cost, to voluntarily, without the Insurer's approval, make any payment, admit liability, assume any obligation or incur any expense related thereto.

### P. Notices

Any notices required to be given by an **Insured** shall be submitted in writing to the Insurer at the address set forth in the Declarations of this Policy.

### Q. Other Insurance

If the **Insured** is entitled to be indemnified or otherwise insured in whole or in part for any **damages** or **defense costs** by any valid and collectible **other insurance** for which the **Insured** otherwise would have been indemnified or otherwise insured in whole or in part by this Policy, the limits of insurance specified in the Declarations of this Policy shall apply in excess of, and shall not contribute to a **claim, incident** or such event covered by such **other insurance**.

With respect to **Coverage A - Excess Follow Form Liability** only, if:

- a. the **Named Insured** has agreed in writing in a contract or agreement with a person or entity that this insurance would be primary and would not seek contribution from any other insurance available;
- b. **Underlying Insurance** includes that person or entity as an additional insured; and
- c. **Underlying Insurance** provides coverage on a primary and noncontributory basis as respects that person or entity;

then this insurance is primary to and will not seek contribution from any insurance policy where that person or entity is a named insured.

### R. Premium

All premium charges under this Policy will be computed according to the Insurer's rules and rating plans that apply at the inception of the current **policy period**. Premium charges may be paid to the Insurer or its authorized representative.

### S. In Rem Actions

A quasi *in rem* action against any vessel owned or operated by or for a **Named Insured**, or chartered by or for a **Named Insured**, will be treated in the same manner as though the action were *in personam* against the **Named Insured**.

### T. Separation of Insureds

Except with respect to the limits of insurance, and any rights or duties specifically assigned in this Policy to the **First Named Insured**, this insurance applies:

- 1. as if each **Named Insured** were the only **Named Insured**; and
- 2. separately to each **Insured** against whom a **claim** is made.

### U. Transfer of Interest



**Contractors' General Liability Extension Endorsement****1. ADDITIONAL INSUREDS**

- a. **WHO IS AN INSURED** is amended to include as an **Insured** any person or organization described in paragraphs **A. through H.** below whom a **Named Insured** is required to add as an additional insured on this **Coverage Part** under a written contract or written agreement, provided such contract or agreement:

(1) is currently in effect or becomes effective during the term of this **Coverage Part**; and

(2) was executed prior to:

(a) the **bodily injury** or **property damage**; or

(b) the offense that caused the **personal and advertising injury**,

for which such additional insured seeks coverage.

- b. However, subject always to the terms and conditions of this policy, including the limits of insurance, the Insurer will not provide such additional insured with:

(1) a higher limit of insurance than required by such contract or agreement; or

(2) coverage broader than required by such contract or agreement, and in no event broader than that described by the applicable paragraph **A. through H.** below.

Any coverage granted by this endorsement shall apply only to the extent permissible by law.

**A. Controlling Interest**

Any person or organization with a controlling interest in a **Named Insured**, but only with respect to such person or organization's liability for **bodily injury, property damage** or **personal and advertising injury** arising out of:

1. such person or organization's financial control of a **Named Insured**; or

2. premises such person or organization owns, maintains or controls while a **Named Insured** leases or occupies such premises;

provided that the coverage granted by this paragraph does not apply to structural alterations, new construction or demolition operations performed by, on behalf of, or for such additional insured.

**B. Co-owner of Insured Premises**

A co-owner of a premises co-owned by a **Named Insured** and covered under this insurance but only with respect to such co-owner's liability for **bodily injury, property damage** or **personal and advertising injury** as co-owner of such premises.

**C. Lessor of Equipment**

Any person or organization from whom a **Named Insured** leases equipment, but only with respect to liability for **bodily injury, property damage** or **personal and advertising injury** caused, in whole or in part, by the **Named Insured's** maintenance, operation or use of such equipment, provided that the **occurrence** giving rise to such **bodily injury, property damage** or the offense giving rise to such **personal and advertising injury** takes place prior to the termination of such lease.

**D. Lessor of Land**

Any person or organization from whom a **Named Insured** leases land but only with respect to liability for **bodily injury, property damage** or **personal and advertising injury** arising out of the ownership, maintenance or use of such land, provided that the **occurrence** giving rise to such **bodily injury, property damage** or the offense giving rise to such **personal and advertising injury** takes place prior to the termination of such lease. The



**Contractors' General Liability Extension Endorsement**

- a. the **Named Insured's** acts or omissions; or
  - b. the acts or omissions of those acting on the **Named Insured's** behalf,  
in the performance of the **Named Insured's** ongoing operations at the trade show event premises during the trade show event.
2. The coverage granted by this paragraph does not apply to **bodily injury** or **property damage** included within the **products-completed operations hazard**.

**2. ADDITIONAL INSURED - PRIMARY AND NON-CONTRIBUTORY TO ADDITIONAL INSURED'S INSURANCE**

The **Other Insurance** Condition in the **COMMERCIAL GENERAL LIABILITY CONDITIONS** Section is amended to add the following paragraph:

If the **Named Insured** has agreed in writing in a contract or agreement that this insurance is primary and non-contributory relative to an additional insured's own insurance, then this insurance is primary, and the Insurer will not seek contribution from that other insurance. For the purpose of this Provision 2., the additional insured's own insurance means insurance on which the additional insured is a named insured. Otherwise, and notwithstanding anything to the contrary elsewhere in this Condition, the insurance provided to such person or organization is excess of any other insurance available to such person or organization.

**3. BODILY INJURY – EXPANDED DEFINITION**

Under **DEFINITIONS**, the definition of **bodily injury** is deleted and replaced by the following:

**Bodily injury** means physical injury, sickness or disease sustained by a person, including death, humiliation, shock, mental anguish or mental injury sustained by that person at any time which results as a consequence of the physical injury, sickness or disease.

**4. BROAD KNOWLEDGE OF OCCURRENCE/ NOTICE OF OCCURRENCE**

Under **CONDITIONS**, the condition entitled **Duties in The Event of Occurrence, Offense, Claim or Suit** is amended to add the following provisions:

**A. BROAD KNOWLEDGE OF OCCURRENCE**

The **Named Insured** must give the Insurer or the Insurer's authorized representative notice of an **occurrence**, offense or **claim** only when the **occurrence**, offense or **claim** is known to a natural person **Named Insured**, to a partner, executive officer, manager or member of a **Named Insured**, or an **employee** designated by any of the above to give such notice.

**B. NOTICE OF OCCURRENCE**

The **Named Insured's** rights under this **Coverage Part** will not be prejudiced if the **Named Insured** fails to give the Insurer notice of an **occurrence**, offense or **claim** and that failure is solely due to the **Named Insured's** reasonable belief that the **bodily injury** or **property damage** is not covered under this **Coverage Part**. However, the **Named Insured** shall give written notice of such **occurrence**, offense or **claim** to the Insurer as soon as the **Named Insured** is aware that this insurance may apply to such **occurrence**, offense or **claim**.

**5. BROAD NAMED INSURED**

**WHO IS AN INSURED** is amended to delete its Paragraph 3. in its entirety and replace it with the following:

3. Pursuant to the limitations described in Paragraph 4. below, any organization in which a **Named Insured** has management control:
  - a. on the effective date of this **Coverage Part**; or





**Blanket Additional Insured - Owners, Lessees or Contractors - with Products-Completed Operations Coverage Endorsement**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

It is understood and agreed as follows:

**I. WHO IS AN INSURED** is amended to include as an **Insured** any person or organization whom you are required by **written contract** to add as an additional insured on this **coverage part**, but only with respect to liability for **bodily injury, property damage** or **personal and advertising injury** caused in whole or in part by your acts or omissions, or the acts or omissions of those acting on your behalf:

- A. in the performance of your ongoing operations subject to such **written contract**; or
- B. in the performance of **your work** subject to such **written contract**, but only with respect to **bodily injury** or **property damage** included in the **products-completed operations hazard**, and only if:
  - 1. the **written contract** requires you to provide the additional insured such coverage; and
  - 2. this **coverage part** provides such coverage.

**II.** But if the **written contract** requires:

- A. additional insured coverage under the 11-85 edition, 10-93 edition, or 10-01 edition of CG2010, or under the 10-01 edition of CG2037; or
- B. additional insured coverage with "arising out of" language; or
- C. additional insured coverage to the greatest extent permissible by law;

then paragraph **I.** above is deleted in its entirety and replaced by the following:

**WHO IS AN INSURED** is amended to include as an **Insured** any person or organization whom you are required by **written contract** to add as an additional insured on this **coverage part**, but only with respect to liability for **bodily injury, property damage** or **personal and advertising injury** arising out of **your work** that is subject to such **written contract**.

**III.** Subject always to the terms and conditions of this policy, including the limits of insurance, the Insurer will not provide such additional insured with:

- A. coverage broader than required by the **written contract**; or
- B. a higher limit of insurance than required by the **written contract**.

**IV.** The insurance granted by this endorsement to the additional insured does not apply to **bodily injury, property damage**, or **personal and advertising injury** arising out of:

- A. the rendering of, or the failure to render, any professional architectural, engineering, or surveying services, including:
  - 1. the preparing, approving, or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; and
  - 2. supervisory, inspection, architectural or engineering activities; or
- B. any premises or work for which the additional insured is specifically listed as an additional insured on another endorsement attached to this **coverage part**.

**V.** Under **COMMERCIAL GENERAL LIABILITY CONDITIONS**, the Condition entitled **Other Insurance** is amended to add the following, which supersedes any provision to the contrary in this Condition or elsewhere in this **coverage part**:

CNA75079XX (10-16)

Page 1 of 2

The Continental Insurance Co.

Insured Name: BROTHERS ASPHALT PAVING, INC.

Policy No: 5091634043

Endorsement No: 8

Effective Date: 04/30/2020







**Blanket Additional Insured - Owners, Lessees or Contractors - with Products-Completed Operations Coverage Endorsement**

**Primary and Noncontributory Insurance**

With respect to other insurance available to the additional insured under which the additional insured is a named insured, this insurance is primary to and will not seek contribution from such other insurance, provided that a **written contract** requires the insurance provided by this policy to be:

1. primary and non-contributing with other insurance available to the additional insured; or
2. primary and to not seek contribution from any other insurance available to the additional insured.

But except as specified above, this insurance will be excess of all other insurance available to the additional insured.

**VI. Solely with respect to the insurance granted by this endorsement, the section entitled COMMERCIAL GENERAL LIABILITY CONDITIONS is amended as follows:**

The Condition entitled **Duties In The Event of Occurrence, Offense, Claim or Suit** is amended with the addition of the following:

Any additional insured pursuant to this endorsement will as soon as practicable:

1. give the Insurer written notice of any **claim**, or any **occurrence** or offense which may result in a **claim**;
2. send the Insurer copies of all legal papers received, and otherwise cooperate with the Insurer in the investigation, defense, or settlement of the **claim**; and
3. make available any other insurance, and tender the defense and indemnity of any **claim** to any other insurer or self-insurer, whose policy or program applies to a loss that the Insurer covers under this **coverage part**. However, if the **written contract** requires this insurance to be primary and non-contributory, this paragraph 3. does not apply to insurance on which the additional insured is a named insured.

The Insurer has no duty to defend or indemnify an additional insured under this endorsement until the Insurer receives written notice of a **claim** from the additional insured.

**VII. Solely with respect to the insurance granted by this endorsement, the section entitled DEFINITIONS is amended to add the following definition:**

**Written contract** means a written contract or written agreement that requires you to make a person or organization an additional insured on this **coverage part**, provided the contract or agreement:

- A. is currently in effect or becomes effective during the term of this policy; and
- B. was executed prior to:
  1. the **bodily injury** or **property damage**; or
  2. the offense that caused the **personal and advertising injury**;for which the additional insured seeks coverage.

Any coverage granted by this endorsement shall apply solely to the extent permissible by law.

All other terms and conditions of the Policy remain unchanged.

This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy, unless another effective date is shown below, and expires concurrently with said Policy.





### Waiver of Transfer of Rights of Recovery Against Others to the Insurer Endorsement

This endorsement modifies insurance provided under the following:

- COMMERCIAL GENERAL LIABILITY COVERAGE PART
- PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE
<b>Name Of Person Or Organization:</b>
ANY PERSON OR ORGANIZATION WHOM THE NAMED INSURED HAS AGREED IN WRITING IN A CONTRACT OR AGREEMENT TO WAIVE SUCH RIGHTS OF RECOVERY, BUT ONLY IF SUCH CONTRACT OR AGREEMENT :
1. IS IN EFFECT OR BECOMES EFFECTIVE DURING THE TERM OF THIS COVERAGE PART; AND 2. WAS EXECUTED PRIOR TO THE BODILY INJURY, PROPERTY DAMAGE OR PERSONAL AND ADVERTISING INJURY GIVING RISE TO THE CLAIM.

(Information required to complete this Schedule, if not shown above, will be shown in the Declarations.)

Under **COMMERCIAL GENERAL LIABILITY CONDITIONS**, it is understood and agreed that the condition entitled **Transfer Of Rights Of Recovery Against Others To Us** is amended by the addition of the following:

With respect to the person or organization shown in the Schedule above, the Insurer waives any right of recovery the Insurer may have against such person or organization because of payments the Insurer makes for injury or damage arising out of the **Named Insured's** ongoing operations or **your work** included in the **products-completed operations hazard**.

All other terms and conditions of the Policy remain unchanged.

This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy, unless another effective date is shown below, and expires concurrently with said Policy.

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**ADVERTISEMENT FOR BIDS  
VILLAGE OF VILLA PARK  
Friday, July 31, 2020**

**PROJECT: PLYMOUTH STREET IMPROVEMENT PROJECT**

This project consists of improving Plymouth Street from Ardmore Avenue to Villa Avenue in the Village of Villa Park which includes hot-mix asphalt (HMA) resurfacing and HMA pavement reconstruction. The total length of improvements is 2,594 feet (0.49 mile). The pavement resurfacing areas will consist of 2" of HMA surface course and ¾" of polymerized leveling binder. These resurfacing areas will also have pavement patching and spot curb and gutter replacement based on field conditions. The pavement reconstruction areas will be composed of 2" HMA surface course, 4" HMA binder course and 6" aggregate base course supported on a geotechnical fabric. In addition, there will be sidewalk replacement at intersections to meet the Public Right-of-Way Accessibility Guidelines (PROWAG), driveway reconstruction, drainage and utility improvements, pavement markings, signing, erosion & sediment control, and landscaping. This project is being funded by a State grant administered by the Department of Commerce and Economic Opportunity (DCEO) which requires participation goals for Minority Business Enterprise (MBE), Women Business Enterprise (WBE), and Veterans Business Enterprise (VBE) as outlined in the Contract Documents.

**BID DEADLINE: TUESDAY, AUGUST 18, 2020, 11:00 A.M. LOCAL TIME**

The Village reserves the right to extend the Bid Deadline from this date and time to accept Bids submitted after the Bid Deadline, as the Village, in its sole discretion, determines is in the best interest of the Village.

**NOTICE:** Separate proposals for the **PLYMOUTH STREET IMPROVEMENT PROJECT** will be received electronically by the Village of Villa Park, Illinois, at the website [www.questcdn.com](http://www.questcdn.com) until the Bid Deadline. Hard copies of bids will not be accepted. Immediately thereafter, the proposals will be read aloud through the use of Zoom. The <https://zoom.us/j/96627900215?pwd=eIRVRC9UVFg0eEg0a2g4QUxFWFlwUT09> link or (312) 626-6799 call-in number with Meeting ID 966 2790 0215 and Password 302589 can be used to access Zoom. Notwithstanding the foregoing, the Village reserves the right to defer, postpone, delay, or reschedule the Bid Opening for such time and to such date as the Village, in its sole discretion, determines is in the best interest of the Village.

Proposals shall be submitted in accordance with the Bidding Documents prepared by Civiltech Engineering, Inc., 2 Pierce Place, Suite 1400, Itasca, Illinois 60143.

**BIDDER QUALIFICATIONS:** Bidders, in submitting a Bid, shall comply with all applicable Federal, State and local laws and requirements; shall provide documentation of that compliance in accordance with the requirements of the Contract Documents or as requested by the Village; and, in submitting a Bid, Bidders affirm that they are qualified under all applicable laws and requirements to do so, and agree to be bound by the determination of the Village as to Bidder's compliance and qualifications.



**BID SECURITY:** Bid security in the amount of not less than five percent (5%) of the Bid shall accompany each Bid in accordance with the Bidding Documents.

**CONTRACT SECURITY:** The Bidder to whom a Contract is awarded shall be required to furnish both a Performance Bond and a Payment Bond acceptable to the Village for one-hundred percent (100%) of the Contract Price, in accordance with the requirements of the Contract Documents.

**RIGHTS RESERVED:** The Village will select the lowest, most responsible bidder. The Village reserves the right to reject any and all Bids, to waive any informalities or technicalities in bidding, and to accept the Bid which best serves the interests of the Village. The Village shall, in its sole discretion, determine what does or does not constitute an informality or technicality, and, in submitting a Bid, Bidder agrees to be bound by that determination.

The Village may make such investigations as it deems necessary to determine the ability of the Bidder to perform the Work, and the Bidder shall furnish to the Village all such information and data for this purpose as the Village may request. The Village reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Village that such Bidder is properly qualified to carry out the obligations of the Agreement and to complete the Work contemplated therein.

**WAGE RATES:** All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout.

**CONTRACT DOCUMENTS:** The Bidding Documents must be obtained electronically at [www.questcdn.com](http://www.questcdn.com) for a non-refundable fee of thirty dollars (\$30.00). The documents may be downloaded by entering Quest Project Number 7237848 on [www.questcdn.com](http://www.questcdn.com). Due to COVID-19, a hard copy of the documents will not be on file for inspection at the office of the Village of Villa Park Public Works Department. However, a "Not for Bid" PDF version of the documents will be available on the project page on the Village's website. These versions are for informational purposes only and may not be used for the preparation or submittal of a bid. All bid submissions shall be submitted electronically at [www.questcdn.com](http://www.questcdn.com).

**PUBLISHED BY AUTHORITY OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS.**

BY: Michael Guerra, P.E.  
Public Works Director



RETURN WITH BID

Local Public Agency  
Formal Contract Proposal

PROPOSAL SUBMITTED BY <b>Brothers Asphalt Paving, Inc</b>		
Contractor's Name <b>315 S. Stewart Ave.</b>		
Street		P.O.Box
<b>Addison</b>	<b>IL.</b>	<b>60101</b>
City	State	Zip Code

STATE OF ILLINOIS

COUNTY OF DUPAGE

VILLAGE OF VILLA PARK

(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

PROJECT NAME PLYMOUTH STREET IMPROVEMENT

SECTION NO. N.A.

TYPES OF FUNDS DCEO FUNDING

SPECIFICATIONS (required)

PLANS (required)

**Note:** All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.



RETURN WITH BID

PROPOSAL

County DUPAGE  
Local Public Agency VILLAGE OF VILLA PARK  
Section Number N.A.  
Route PLYMOUTH STREET

1. Proposal of Brothers Asphalt Paving, Inc

for the improvement of the above section by the construction of Pavement resurfacing with HMA surface and polymer leveling binder, pavement reconstruction with HMA surface course, HMA binder course, and aggregate base supported by geotechnical fabric, HMA & PCC driveway reconstruction, replacement of curb and gutter, sidewalk replacement, pavement patching, some utility work, and all other work shown in the plans and described in contract documents.  
a total distance of 2,594 feet, of which a distance of 2,594 feet, ( 0.49 miles) are to be improved.

Civiltech Engineering, Inc.  
2 Pierce Place, Suite 1400, Itasca, IL 60143  
July 31, 2020

- 2. The plans for the proposed work are those prepared by Civiltech Engineering, Inc. and approved by the Village of Villa Park on July 31, 2020
- 3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
- 4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
- 5. The undersigned agrees to complete the work within the contract time provided by the special provision, "Completion of Project" unless additional time is granted in accordance with the specifications.
- 6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to:

Village Treasurer of the Village of Villa Park

The amount of the check is 5% of Bid = Five Percent Bid Bond ( 5% ).

- 7. In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check is placed in another proposal, it will be found in the proposal for: Section Number Not Applicable.
- 8. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.
- 9. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
- 10. A bid will be declared unacceptable if neither a unit price nor a total price is shown.
- 11. The undersigned submits herewith the schedule of prices on BLR 12200a covering the work to be performed under this contract.
- 12. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12200a, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.



**RETURN WITH BID**

**SCHEDULE OF PRICES**

County DUPAGE  
 Local Public Agency VILLAGE OF VILLA PARK  
 Section N.A.  
 Route PLYMOUTH STREET

**Schedule of Prices for BID**

(For complete information covering these items, see plans and specifications)

Item No.	Items	Unit	Quantity	Unit Price	Total
1	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	124	\$15.45	\$1,915.80
2	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	264	\$18.54	\$4,894.56
3	TEMPORARY FENCE	FOOT	1,120	\$4.00	\$4,480.00
4	TREE ROOT PRUNING	EACH	26	\$82.40	\$2,142.40
5	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	10	\$20.60	\$206.00
6	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	39	\$30.90	\$1,205.10
7	EARTH EXCAVATION	CU YD	106	\$40.00	\$4,240.00
8	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	825	\$40.00	\$33,000.00
9	TRENCH BACKFILL	CU YD	20	\$23.69	\$473.80
10	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2,735	\$2.15	\$5,880.25
11	SUPPLEMENTAL WATERING	UNIT	29	\$103.00	\$2,987.00
12	INLET FILTERS	EACH	24	\$128.75	\$3,090.00
13	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	659	\$35.00	\$23,065.00
14	AGGREGATE BASE COURSE, TYPE B	CU YD	112	\$35.00	\$3,920.00
15	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	2,275	\$8.00	\$18,200.00
16	BITUMINOUS MATERIALS (TACK COAT)	POUND	4,676	\$0.10	\$467.60



**RETURN WITH BID**

Item No.	Items	Unit	Quantity	Unit Price	Total
17	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	262	\$100.00	\$26,200.00
18	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	240	\$5.00	\$1,200.00
19	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	510	\$72.00	\$36,720.00
20	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	949	\$75.00	\$71,175.00
21	PROTECTIVE COAT	SQ YD	1,230	\$0.02	\$24.60
22	DETECTABLE WARNINGS	SQ FT	503	\$23.69	\$11,916.07
23	PAVEMENT REMOVAL	SQ YD	2,512	\$12.00	\$30,144.00
24	DRIVEWAY PAVEMENT REMOVAL	SQ YD	742	\$10.30	\$7,642.60
25	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,159	\$3.09	\$3,581.31
26	SIDEWALK REMOVAL	SQ FT	7,780	\$1.18	\$9,180.40
27	CLASS C PATCHES, 6 INCH	SQ YD	995	\$60.77	\$60,466.15
28	CATCH BASINS, TYPE A, 4'-DIAMETER	EACH	2	\$7,158.50	\$14,317.00
29	CATCH BASINS, TYPE C	EACH	1	\$2,935.50	\$2,935.50
30	FRAMES AND GRATES, TYPE 3	EACH	1	\$396.55	\$396.55
31	FRAMES AND GRATES, TYPE 11	EACH	17	\$478.95	\$8,142.15
32	FRAMES AND LIDS, TYPE 1	EACH	6	\$412.00	\$2,472.00
33	NON-SPECIAL WASTE DISPOSAL	CU YD	200	\$40.00	\$8,000.00
34	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	\$36.05	\$108.15
35	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	\$144.20	\$432.60
36	TELESCOPING STEEL SIGN SUPPORT	FOOT	43	\$10.30	\$442.90
37	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	25	\$10.30	\$257.50
38	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	188	\$20.60	\$3,872.80
39	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4"	SQ YD	316	\$35.00	\$11,060.00
40	CONSTRUCTION LAYOUT	L SUM	1	\$13,930.75	\$13,930.75



**RETURN WITH BID**

Item No.	Items	Unit	Quantity	Unit Price	Total
41	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	36	\$540.75	\$19,467.00
42	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	3	\$1,287.50	\$3,862.50
43	STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	12	\$128.75	\$1,545.00
44	SAWING P.C. CONCRETE PAVEMENT (FULL DEPTH)	FOOT	2,944	\$1.29	\$3,797.76
45	TREE, ACER RUBRUM (RED MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	6	\$515.00	\$3,090.00
46	TREE, GINKGO BILOBA (GINKGO), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	6	\$669.50	\$4,017.00
47	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	6	\$463.50	\$2,781.00
48	TREE, ULMUS JAPONICA X WILSONIANA MORTON (ACCOLADE ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	4	\$515.00	\$2,060.00
49	TREE, MALUS PRAIRIE ROSE (PRAIRIE ROSE CRABAPPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	8	\$463.50	\$3,708.00
50	TOPSOIL FURNISH AND PLACE, 4" (SPECIAL)	SQ YD	2,940	\$5.67	\$16,669.80
51	EXPLORATION TRENCH, SPECIAL	FOOT	75	\$23.69	\$1,776.75
52	SODDING, SPECIAL	SQ YD	2,940	\$7.21	\$21,197.40
53	TEMPORARY ACCESS (DRIVEWAY ENTRANCE)	EACH	33	\$20.00	\$660.00
54	TEMPORARY ACCESS (ROAD)	EACH	6	\$100.00	\$600.00
55	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH, SPECIAL	SQ YD	466	\$56.65	\$26,398.90
56	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	10,582	\$6.69	\$70,793.58
57	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	5,930	\$3.00	\$17,790.00
58	VALVE BOXES TO BE ADJUSTED (SPECIAL)	EACH	1	\$334.75	\$334.75
59	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	3,196	\$21.63	\$69,129.48
60	CONCRETE WEDGE	FOOT	996	\$2.57	\$2,559.72
61	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	\$16,164.00	\$16,164.00
62	PRECONSTRUCTION VIDEO TAPING	L SUM	1	\$721.00	\$721.00



**RETURN WITH BID**

Item No.	Items	Unit	Quantity	Unit Price	Total
63	REMOVE AND REINSTALL LANDSCAPING ITEM	FOOT	200	\$43.26	\$8,652.00
64	WATER USAGE DEDUCTION	T GAL	100	-\$8.85	-\$885.00
65	WATER USAGE CREDIT	T GAL	100	\$8.85	\$885.00
66	CONTINGENCY ALLOWANCE	DOLLAR	30,000	\$1.00	\$30,000.00

<b>Bidder's Proposal for making Entire Improvements:</b>	<b>\$762,561.18</b>
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(TOTAL BID)



RETURN WITH BID

CONTRACTOR CERTIFICATIONS

County DUPAGE  
Local Public Agency VILLAGE OF VILLA PARK  
Section Number N.A.  
Route PLYMOUTH STREET

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.

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.

2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

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.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.

4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart 1 of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be cancelled.



RETURN WITH BID

SIGNATURES

County DUPAGE  
Local Public Agency VILLAGE OF VILLA PARK  
Section Number N.A.  
Route PLYMOUTH STREET

(If an individual)

Name of Bidder \_\_\_\_\_

Business Address \_\_\_\_\_  
\_\_\_\_\_

(If a partnership)

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

Signed By \_\_\_\_\_

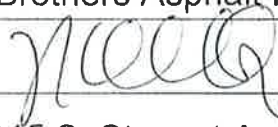
Business Address \_\_\_\_\_  
\_\_\_\_\_

Inset Name and Address of Bidder



(If a corporation)

Company Name Brothers Asphalt Paving, Inc

Signed By  \_\_\_\_\_  
President

Business Address 315 S. Stewart Ave. Addison, IL. 60101  
\_\_\_\_\_

President Natalia Colella

Secretary Nick Colella

Treasurer Natalia Colella

Attest:

  
Secretary





Local Agency Proposal Bid Bond

Route Plymouth Street
County DuPage
Local Agency Village of Villa Park
Section N.A.

RETURN WITH BID

PAPER BID BOND

WE Brothers Asphalt Paving, Inc. 315 S. Stewart Avenue, Addison, IL 60101 as PRINCIPAL,
and Western Surety Company 151 N. Franklin Street, Chicago, IL 60606 as SURETY,

are held jointly, severally and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids whichever is the lesser sum.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this 18th day of August, 2020

Principal

Brothers Asphalt Paving, Inc. (Company Name)
By: Natalia Colella President (Signature and Title)

(Company Name)
By: (Signature and Title)

(If PRINCIPLE is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be affixed)

Western Surety Company (Name of Surety)

Surety
By: William Reidinger (Signature and Title)



STATE OF Illinois
COUNTY OF DuPage

I, Hina Azam, a Notary Public in and for said county, do hereby certify that Natalia Colella and William Reidinger

(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 instruments as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 18th day of August, 2020

My commission expires April 23, 2024

Hina Azam (Notary Public)

ELECTRONIC BID

Electronic bid bond is allowed (box must be checked by LA if electronic bid bond is allowed)

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LA under the conditions of the bid bond as shown above.

Electronic Bid Bond ID Code

(Company/Bidder Name)

(Signature and Title)

Date

NOTARY PUBLIC, STATE OF ILLINOIS
My Commission Expires April 23, 2024
Hina Azam



# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**William Reidinger, Donna M Tyler, Matthew V Buol, Hina Azam, Karen E Bogard, Joseph Halleran, Rebecca R Alves, Thomas Green, Individually**

of Schaumburg, IL, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 27th day of March, 2018.



WESTERN SURETY COMPANY

*Paul T. Bruflat*

Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 27th day of March, 2018, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2021



*J. Mohr*

J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 18th day of August, 2020.



WESTERN SURETY COMPANY

*L. Nelson*

L. Nelson, Assistant Secretary



**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.





Apprenticeship or Training Program Certification

Return with Bid

Route Plymouth Street
County DuPage
Local Agency Village of Villa Park
Section N A

All contractors are required to complete the following certification:

- For this contract proposal or for all groups in this deliver and install proposal.
For the following deliver and install groups in this material proposal:

Brothers Asphalt Paving, Inc. to perform: Pavement Removal, Aggregate Bases & Surfaces, Cover & Seal Coats, Asphalt Paving Work, Surface Removal, Earthwork, Drainage, and Traffic Control & Protection. Program Sponsors: Member of: Operators Union Local 150, Cement Masons Local 502, Teamsters Union Local 673, and Laborers Union Local 96.

Illinois Department of Transportation policy, adopted in accordance with the provisions of the Illinois Highway Code, requires this contract to be awarded to the lowest responsive and responsible bidder. The award decision is subject to approval by the Department. In addition to all other responsibility factors, this contract or deliver and install proposal requires all bidders and all bidders' subcontractors to disclose participation in apprenticeship or training programs that are (1) approved by and registered with the United States Department of Labor's Bureau of Apprenticeship and Training, and (2) applicable to the work of the above indicated proposals or groups. Therefore, all bidders are required to complete the following certification:

- I. Except as provided in paragraph IV below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.
II. The undersigned bidder further certifies for work to 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 or training program; or (B) will, prior to commencement of performance of work pursuant to this contract, establish participation in an approved apprenticeship or training program applicable to the work of the subcontract.
III. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each 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 employees. Types of work or craft 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 for which there is no applicable apprenticeship or training program available.

Subwork: Landscape, Striping, and Concrete to be performed by union subcontractors and their local unions are to be program sponsors.



IV. Except for any work identified above, any bidder or subcontractor that shall perform all or part of the work of the contract or deliver and install proposal solely by individual owners, partners or members and not by employees to whom the payment of prevailing rates of wages would be required, check the following box, and identify the owner/operator workforce and positions of ownership.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
N/A

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require the certification provision to be included in all approved subcontracts. 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 is accounted for and listed. 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. ~~In order to fulfill the participation requirement, it shall not be necessary that any 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 or deliver and install proposal.~~

Bidder: Brothers Asphalt Paving, Inc.

Address: 315 S. Stewart Ave, Addison, IL 60101

By:

  
(Signature)

Title:

President



## Apprenticeship Requirements Certification

Return with Bid

Route PLYMOUTH STREET  
 County DUPAGE  
 Local Agency VILLAGE OF VILLA PARK  
 Section N.A.

**All contractors are required to complete the following certification:**

This Project is required to comply with the Illinois Works Jobs Program Act (30 ILCS 559/20-1 et seq.) and is also required to comply with the Illinois Works Apprenticeship Initiative (30 ILCS 559/20-20 to 20-25) and all applicable administrative rules at 14 Ill. Admin. Code Part 680.

In compliance with the requirements of the Illinois Works Jobs Program Act and the Illinois Works Apprenticeship Initiative, apprentices shall perform at least ten percent (10%) of the total labor hours worked in each prevailing wage classification. This requirement shall apply to all prevailing wage eligible work performed on the entire project.

All bidders are required to complete the following certification:

- I. The undersigned bidder certifies that at least ten percent (10%) of the total labor hours worked in each prevailing wage classification, whether worked by employees of bidder or by employees of subcontractors, shall be performed by apprentices in approved apprenticeship or training programs applicable to each type of work or craft that will be performed.
- II. The undersigned bidder, by inclusion in the list in the space below, certifies, to the best of the bidder's estimation, the prevailing wage classifications and the total labor hours to be worked for each prevailing wage classification in the performance of the work to be completed as a part of this contract proposal.

Prevailing Wage Classification	Estimated Total Hours
<b>OPERATORS</b>	400 HRJ
<b>LABORERS</b>	400 HRJ

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 awarded subcontracts. The bidder is responsible for making a complete report and shall make certain that each prevailing wage classification that will be utilized on the project is accounted for and listed. The contractor shall, with each request for payment, provide a statement of the total labor hours worked in each prevailing wage classification, and a statement of the labor hours worked by apprentices in each prevailing wage classification. The Owner at any time after award may require the production of evidence of compliance with these apprenticeship requirements by the contractor and any or all of its subcontractors.

Bidder: Brothers Asphalt Paving, Inc  
 Address: 315 S. Stewart Ave. Addison IL. 60101

By:   
 (Signature)  
 Title: Natalia Colella / President



BIDDING & CONTRACT REQUIREMENTS  
Document 00 41 05 – Minority/Women/Veterans Business Enterprise Program Requirements

**RETURN WITH BID**

Name of Bidder: Brothers Asphalt Paving, Inc

**CONTRACT REQUIREMENTS FOR MINORITY/WOMEN/VETERANS BUSINESS PARTICIPATION**

- A. This project has goals for participation by minority and women owned businesses as first and second tier (level) subcontractors or suppliers, and as the prime contractor, in accord with the Business Enterprise for Minorities, Women, and Persons with Disabilities, Act (30 ILCS 575).

**GOALS:** The MBE/WBE goal for this contract is twenty percent of the \$733,500 grant amount awarded by DCEO.

- B. This project has goals for participation by veteran owned businesses as first and second tier (level) subcontractors or suppliers, and as the prime contractor, in accord with the Illinois Procurement Code (30 ILCS 500/45-57).

**GOALS:** The WBE goal for this contract is five percent of the \$733,500 grant amount awarded by DCEO.

- C. The contract award is defined as a Base Bid plus all alternates (if applicable). Only MBE/WBE/VBE firms certified or registered with the Illinois Department of Central Management Services(CMS) are acceptable.

**NOTE:** MBE/WBE/VBE goals are in addition to those specified for work force projections (DHR Form PC-2 Form).

**INSTRUCTIONS:** The Bidder shall include below the names of certified minority/women/veteran owned business enterprises which will perform at least five percent of the work specified in the Goals statement (see above) and the proposed dollar value of subcontract (percentage values are not acceptable). If the Bidder is a MBE/WBE/VBE, then list the work to be done with own forces on the form. If the Bidder needs assistance in identifying subcontractors or suppliers, contact CDB's Fair Employment Practices (FEP) Unit and assistance will be provided in accordance with the MBE/WBE/VBE requirements in the Standard Documents for Construction. Efforts to comply with these requirements will be considered in evaluating whether the bid is responsive.

- ❖ A completed 4105 Form should be provided with the vendor's bid. **Submission of a blank 4105 form (defined as no participation listed) with a bid that includes Minorities, Women or Veterans Business Enterprise goals requires submission of Good Faith Effort (GFE) documentation (without notice) within 4 (four) calendar days of the bid date and checking the associated box on the 4105 form. In this case a 10 day cure period is not applicable. Good Faith Effort documentation should identify efforts made prior to bid due date. Failure to provide any of the required documentation may result in the vendor's bid being deemed non-responsive. Submit documentation to [engineering@dbm.com](mailto:engineering@dbm.com).**
- ❖ **If the percentage of the work (Base Bid plus all Alternates) is less than the specified goals, bidder shall be notified and afforded a period not to exceed 10 (ten) calendar days from the date of notification (10 day cure period) to cure deficiencies or submit written evidence of its good faith efforts to achieve the goals.**
- ❖ Firms cannot be identified after the 10 day cure period.
- ❖ Failure to identify firms, submit good faith effort, or both within the 10 day cure period will result in rejection of bid.
- ❖ Firms shall be certified or registered with CMS as an MBE/WBE/VBE prior to bid opening.
- ❖ Firms can only be used to satisfy one goal, MBE, WBE, or VBE – not multiple goals.
- ❖ See the 2009 Standard Documents for Construction and the most current Supplement: 00 43 39 .10 – Calculation of MBE/WBE/VBE Participation as a Material Supplier or Subcontractor.

**BIDDER'S MBE/WBE/VBE PARTICIPATIONS SHOULD BE LISTED ON THE FOLLOWING BASE BID SHEETS AND ALTERNATE SHEETS (IF APPLICABLE).**

(Attach additional sheet if necessary.)



**BIDDING & CONTRACT REQUIREMENTS**

Document 00 41 05 – Minority/Women/Veterans Business Enterprise Program Requirements

**RETURN WITH BID**

Brothers Asphalt Paving, Inc

**BASE BID:**

CDB Prequalification or Registration Number	Name of MBE/WBE/VBE Firm	Proposed \$ Value of Subcontract	Telephone Number	MBE WBE VBE Designation And Certifying Agency	Trade Performed or Supply Provided	Description / Scope of Work	CDB Use Only CMS Expiration Date
1.	Galaxy Underground, Inc. 9233 Cherry Ave. Franklin Park, IL 60131	\$57,100.00	847-455-8522	<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE DBE ✓ <input type="checkbox"/> Certified by CMS	Underground	Underground	
2.	Advanced Video Solutions, Inc. 615 Berkshire Ct. 60193	\$700.00	847-534-0100 Karen Kowalik	<input type="checkbox"/> MBE <input checked="" type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS	Video	Video	
3.	Velasco Ent. Inc. 168 Irving Park Road Wood Dale, IL 60191	\$35,000.00	630-766-6950	<input checked="" type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS	Trucking/Sweeping		
4.				<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			
5.				<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			
6.				<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			
7.				<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			
8.				<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			

FOR CDB USE ONLY:

Original \_\_\_\_\_  
Amendment # \_\_\_\_\_  
Date Amended \_\_\_\_\_



**BIDDING & CONTRACT REQUIREMENTS**

Document 00-41 05 - Minority, Women, Veterans Business Enterprise Program Requirements

**RETURN WITH BID**

ALTERNATE BID No. \_\_\_\_\_

CDB Prequalification or Registration Number, Name of MBE/WBE/VBE Firm, Address, City, State, Zip	Proposed \$ Value of Subcontract	Telephone Number	MBE/WBE/VBE Designation And Certifying Agency <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS	Trade Performed or Supply Provided	Description / Scope of Work	CDB Use Only CMS Expiration Date
N/A			<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			
2.			<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			
3.			<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			

ALTERNATE BID No. \_\_\_\_\_

CDB Prequalification or Registration Number, Name of MBE/WBE/VBE Firm, Address, City, State, Zip	Proposed \$ Value of Subcontract	Telephone Number	MBE/WBE/VBE Designation And Certifying Agency <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS	Trade Performed or Supply Provided	Description / Scope of Work	CDB Use Only CMS Expiration Date
1. N/A			<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			
2.			<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			
3.			<input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> VBE <input type="checkbox"/> Certified by CMS			

FOR CDB USE ONLY:

Original \_\_\_\_\_  
Amendment # \_\_\_\_\_  
Date Amended \_\_\_\_\_



BIDDING & CONTRACT REQUIREMENTS  
Document 00 41 05 – Minority/Women/Veterans Business Enterprise Program Requirements

**RETURN WITH BID**

Name of Bidder: **Brothers Asphalt Paving, Inc**

The Bidder represents that, to the best of its knowledge and belief:

1. Each of the subcontractor and suppliers listed is certified by Central Management Services under the provisions and definitions of the Minority/Women/Veterans Business Enterprise Program Acts as a minority, women or veteran owned business.
2. The subcontract(s) which will be executed by the Bidder for the first and/or second level subcontractors and suppliers if the bidder is awarded this contract will meet or exceed the specified MBE/WBE goals and will comply with all provisions of the Minority/Women Business Enterprise Program Act.
3. The subcontract(s) which will be executed by the Bidder for the first and/or second level subcontractors and suppliers if the bidder is awarded this contract will meet or exceed the specified VBE goals, and will comply with all provisions of 30 U.S.C. 4045-5.

**If a blank 4105 form (defined as no participation listed) is submitted with the bid, the bidder shall check the box that it will submit good faith effort documentation (without notice) within 4 calendar days following the date of the bid opening:  check if applicable**

Bidder agrees to and certifies that it will comply with the contractual requirements specified in Article 00 43 39 of CDB's Standard Documents for Construction, and the most current Supplement, regarding the Minority/Women/Veterans Business Enterprise Program Acts.

  
\_\_\_\_\_  
Signature, Title

8/13/20

Date

**Natalia Colella / President SIGNATURE IS REQUIRED**





# Illinois Department of Transportation

Office of Business & Workforce Diversity  
2360 South Dirksen Parkway / Springfield, Illinois 62764

March 3, 2020

## CERTIFIED-RETURN RECEIPT REQUESTED

Ms. Domenica Ruggieri  
Norridge Sewer & Water Construction, Inc.  
dba Galaxy Underground Inc.  
1233 Cherry Ave.  
Franklin Park, IL 60131-3009

Dear Ms. Ruggieri:

The Illinois Department of Transportation (IDOT) has approved the *No Change Affidavit* for Norridge Sewer & Water Construction, Inc. dba Galaxy Underground Inc. and determined that the firm continues to meet DBE eligibility standards to perform work towards DBE goals.


To remain certified and in good standing, you must annually submit a *No Change Affidavit*. Your firm's next affidavit is due on **April 1, 2021**. IDOT will send an affidavit form 60 days prior to that date.

Should the submitted information change, you are required to notify IDOT's Bureau of Small Business Enterprises within 30 days of the change.

Note: Pursuant to 49 CFR Part 26.83(i), whenever there is a change in circumstances affecting your firm's eligibility status, your firm must provide written notification to IDOT within 30 days of the occurrence of the change. If you fail to make timely notification, it may result in the loss of your firm's certification.

If you have any questions, please contact the Bureau of Small Business Enterprises at (217) 782-5490.

Sincerely,

  
Deborah A. Clark, Bureau Chief  
Bureau of Small Business Enterprises





# Illinois Department of Transportation

## Norridge Sewer & Water Construction, Inc. dba Galaxy Underground Inc.

is hereby certified as a

### **Disadvantaged Business Enterprise**

This certificate is valid under current firm ownership and operational control only and supersedes any authorization or listing previously issued.

Handwritten signature of Ronald S. Blankenbom.

Ronald S. Blankenbom  
Secretary  
Department of Transportation

Handwritten signature of Pamela R. Simon.

Pamela R. Simon  
Director  
Office of Business & Workforce Diversity

Effective the 21<sup>st</sup> day of February 2017



# WBENC

WOMEN'S BUSINESS ENTERPRISE  
NATIONAL COUNCIL

JOIN FORCES. SUCCEED TOGETHER.

hereby grants

# National Women's Business Enterprise Certification

to

Advanced Video Solutions, Inc.

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE).  
This certification affirms the business is woman-owned, operated and controlled and is valid through the date herein.

WBENC National WBE Certification was processed and validated by Women's Business Development Center - Midwest, a WBENC Regional Partner Organization.

Certification Granted: April 3, 2001  
Expiration Date: May 31, 2021  
WBENC National Certification Number: 239182



Authorized by Emilia DiMenco, President & CEO  
Women's Business Development Center - Midwest

NAICS: 541922, 512110  
UNSPSC: 46171621, 82131603

Great Jobs  
Women's  
Business  
COUNCIL



WBECEAST

WBEC

WBECEORV

WBEC

WBEC

WBECWEST

WOMEN PRESIDENTS  
EQUITY 100



**Certification: View**
[Certification List](#)
[Submit Change Request](#)
[Add Date Alert](#)

**Business Name** Velasco Enterprises Inc  
**VendorID** 20199349  
**Primary Owner's Name** Juan Velasco  
**Ethnic Group** Hispanic/Latino  
**Gender** Male

**Certifying Agency** City of Chicago  
**Certification Type** MBE - Minority Business Enterprise  
**Effective Date** 9/12/2019  
**Renewal Date** 8/15/2020

**Main Company Email** vmssons@yahoo.com  
**Main Phone** 630-766-6950  
**Main Fax** 630-766-6951  
**Main Company Website**

**Physical Address** 168 Irving Park Road - Suite 103  
 Wood Dale, IL 60191  
**Mailing Address** 168 Irving Park Road - Suite 103  
 Wood Dale, IL 60191

**Business certified for** NAICS 484220 - Dump trucking (e.g., gravel, sand, top soil)  
 NAICS 484220 - Gravel hauling, local  
 NAICS 484220 - Sand hauling, local  
 NAICS 484220 - Top-soil hauling, local  
 NAICS 484220 Flatbed trucking, local  
 NAICS 561790 Parking lot cleaning (e.g., power sweeping, washing) services

**Full Description of Capabilities/Products**

NAICS 484220 - Dump trucking (e.g., gravel, sand, top soil)  
 NAICS 484220 - Gravel hauling, local  
 NAICS 484220 - Sand hauling, local  
 NAICS 484220 - Top-soil hauling, local  
 NAICS 484220 Flatbed trucking, local  
 NAICS 561790 Parking lot cleaning (e.g., power sweeping, washing) services

**Commodity Codes**

NAICS 484220	Dump trucking (e.g., gravel, sand, top-soil) ( <a href="#">More</a> )
NAICS 484220	Flatbed trucking, local ( <a href="#">More</a> )
NAICS 484220	Gravel hauling, local ( <a href="#">More</a> )
NAICS 484220	Sand hauling, local ( <a href="#">More</a> )
NAICS 484220	Top-soil hauling, local ( <a href="#">More</a> )
NAICS 561790	Parking lot cleaning (e.g., power sweeping, washing) services ( <a href="#">More</a> )

**Ethnic Group** Hispanic/Latino  
**Gender** Male  
**DBE Ethnic Group** Hispanic American

**County** DuPage (IL)

**Ward**  
**Community Area**

[Certification List](#)





# Illinois Department of Transportation

## **Norridge Sewer & Water Construction, Inc. dba Galaxy Underground Inc.**

is hereby certified as a

### **Disadvantaged Business Enterprise**

This certificate is valid under current firm ownership and operational control only and supersedes any authorization or listing previously issued.

Ronald S. Blankenshorn  
Secretary  
Department of Transportation

Pamela R. Simon  
Director  
Office of Business & Workforce Diversity

Effective the 21<sup>st</sup> day of February 2017



# WBENC

WOMEN'S BUSINESS ENTERPRISE  
NATIONAL COUNCIL

JOIN FORCES. SUCCEED TOGETHER.

hereby grants

# National Women's Business Enterprise Certification

TO

Advanced Video Solutions, Inc.

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE).

This certification affirms the business is woman-owned, operated and controlled and is valid through the date herein.

WBENC National WBE Certification was processed and validated by Women's Business Development Center - Midwest, a WBENC Regional Partner Organization.

Certification Granted: April 3, 2001

Expiration Date: May 31, 2021

WBENC National Certification Number: 239182



Authorized by Emilia DiMenco, President & CEO  
Women's Business Development Center - Midwest

NAICS: 541922, 512110  
UNSPSC: 46171621, 82131603

Great Jobs  
Women's  
Business  
COUNCIL



WBECEAST

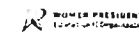
WBEC

WBECORV

WBECMIDWEST

WBECMIDWEST

WBECWEST





**Certification: View**

Certification List

Submit Change Request

Add Date Alert

**Vendor**

Business Name Velasco Enterprises Inc  
 VendorID 20199349  
 Primary Owner's Name Juan Velasco  
 Ethnic Group Hispanic/Latino  
 Gender Male

**Agency**

Certifying Agency City of Chicago  
 Certification Type MBE - Minority Business Enterprise  
 Effective Date 9/12/2019  
 Renewal Date 8/15/2020

**Contact**

Main Company Email vmssons@yahoo.com  
 Main Phone 630-766-6950  
 Main Fax 630-766-6951  
 Main Company Website

**Address**

Physical Address 168 Irving Park Road - Suite 103  
 Wood Dale, IL 60191  
 Mailing Address 168 Irving Park Road - Suite 103  
 Wood Dale, IL 60191

**Business**

Business certified for NAICS 484220 - Dump trucking (e.g., gravel, sand, top soil)  
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 NAICS 484220 Flatbed trucking, local  
 NAICS 561790 Parking lot cleaning (e.g., power sweeping, washing) services

Commodity Codes

NAICS 484220 Dump trucking (e.g., gravel, sand, top-soil) ([More](#))  
 NAICS 484220 Flatbed trucking, local ([More](#))  
 NAICS 484220 Gravel hauling, local ([More](#))  
 NAICS 484220 Sand hauling, local ([More](#))  
 NAICS 484220 Top-soil hauling, local ([More](#))  
 NAICS 561790 Parking lot cleaning (e.g., power sweeping, washing) services ([More](#))

**Demographics**

Ethnic Group Hispanic/Latino  
 Gender Male  
 DBE Ethnic Group Hispanic American

**Location**

County DuPage (IL)

**Ward**

Community Area

Certification List





**Illinois Department  
of Transportation**

# Certificate of Eligibility

Contractor No 0623

Brothers Asphalt Paving, Inc.  
315 S. Stewart Ave Addison, IL 60101

WHO HAS FILED WITH THE DEPARTMENT AN APPLICATION FOR PREQUALIFICATION STATEMENT OF EXPERIENCE, EQUIPMENT AND FINANCIAL CONDITION IS HEREBY QUALIFIED TO BID AT ANY OF DEPARTMENT OF TRANSPORTATION LETTINGS IN THE CLASSES OF WORK AND WITHIN THE AMOUNT AND OTHER LIMITATIONS OF EACH CLASSIFICATION, AS LISTED BELOW, FOR SUCH PERIOD AS THE UNCOMPLETED WORK FROM ALL SOURCES DOES NOT EXCEED \$20,179,000.00

001	EARTHWORK	\$1,050,000	
005	HMA PAVING	\$9,075,000	B
012	DRAINAGE	\$1,325,000	
017	CONCRETE CONSTRUCTION	\$3,375,000	
032	COLD MILL, PLAN. & ROTOMILL	\$1,350,000	
08A	AGGREGATE BASES & SURF. (A)	\$850,000	

THIS CERTIFICATE OF ELIGIBILITY IS VALID FROM 8/4/2020 TO 4/30/2021 INCLUSIVE, AND SUPERSEDES ANY CERTIFICATE PREVIOUSLY ISSUED, BUT IS SUBJECT TO REVISION OR REVOCATION, IF AND WHEN CHANGES IN THE FINANCIAL CONDITION OF THE CONTRACTING FIRM OR OTHER FACTS JUSTIFY SUCH REVISIONS OR REVOCATION. ISSUED AT SPRINGFIELD, ILLINOIS ON 8/5/2020.

B Restricted to 1200 tons in any 1 contract (Class I and/or BAM) or as specified by local agency

*Tim Kell*  
Engineer of Construction



RETURN WITH BID



Affidavit of Illinois Business Office

County DuPage
Local Public Agency Village of Villa Park
Section Number N.A.
Route Plymouth Street

State of Illinois )
) ss.
County of DuPage )

I, Natalia Colella of Addison, Illinois,
(Name of Affiant) (City of Affiant) (State of Affiant)

being first duly sworn upon oath, states as follows:

- 1. That I am the President of Brothers Asphalt Paving, Inc.
officer or position bidder
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, Brothers Asphalt Paving, Inc. will maintain a
(bidder)
business office in the State of Illinois which will be located in DuPage County, Illinois.
4. That this business office will serve as the primary place of employment for any persons employed in the
construction contemplated by this proposal.
5. That this Affidavit is given as a requirement of state law as provided in Section 30-22(8) of the Illinois
Procurement Code.

[Handwritten Signature]
(Signature)
Natalia Colella
(Print Name of Affiant)

This instrument was acknowledged before me on 18th day of August, 2020.

(SEAL)



[Handwritten Signature]
(Signature of Notary Public)





**Affidavit of Availability**  
For the Letting of 08/18/20



Bureau of Construction  
2300 South Dirksen Parkway/Room 322  
Springfield, IL 62764

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

**Part I. Work Under Contract**

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	1	2	3	4	Awards Pending	Accumulated Totals	
Contract Number	20-01000-01GM	20-00085-00RS		20-03000-01GM	/		
Contract With	Addison Twnshp	Schiller Park	Franklin Park	Dwn Grv Town			
Estimated Completion Date	08/27/20	10/31/20	08/14/20	10/16/20			
Total Contract Price	\$513,383	\$1,347,914	\$110,483	\$783,389			
Uncompleted Dollar Value if Firm is the Prime Contractor	\$513,383	\$1,347,914	\$110,483	\$783,389			\$2,755,169
Uncompleted Dollar Value if Firm is the Subcontractor							
<b>Total Value of All Work</b>						<b>\$2,755,169</b>	

**Part II. Awards Pending and Uncompleted Work to be done with your own forces.**

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

Earthwork		\$8,900	\$2,750			\$11,650
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving	\$342,579	\$680,617	\$50,104	\$548,316		\$1,621,616
Clean & Seal Cracks/Joints						
Aggregate Bases, Surfaces	\$31,530	\$2,500	\$3,050	\$47,670		\$84,750
Highway, R.R., Waterway Struc.						
Drainage	\$800		\$4,200	\$2,500		\$7,500
Electrical						
Cover and Seal Coats	\$2,030	\$46	\$857	\$2,937		\$5,870
Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning, Rotomilling	\$7,439	\$87,897	\$7,998	\$11,646		\$114,980
Demolition						
Pavement Markings (Paint)						
Other Construction (List)						
<b>Totals</b>	<b>\$384,378</b>	<b>\$779,960</b>	<b>\$68,959</b>	<b>\$613,069</b>		<b>\$1,846,366</b>

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the "Illinois Procurement Code." Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.



**Part III. Work Subcontracted to Others.**

For each contract described in Part I, list all the work you have subcontracted to others.

	1	2	3	4	Awards Pending
Subcontractor	Smith Maintenance	Nafisco	Smith Maintenance	Nafisco	
Type of Work	Traffic Control	Traffic Control	Traffic Control	Traffic Control	
Subcontract Price	\$3,500	\$22,337	\$1,200	\$7,610	
Amount Uncompleted	\$3,500	\$22,337	\$1,200	\$7,610	
Subcontractor	Superior Road	Maintenance Coat	Superior Road	Superior Road	
Type of Work	Pavement Marking	Pavement Marking	Pavement Marking	Pavement Marking	
Subcontract Price	\$3,572	\$7,712	\$3,466	\$5,360	
Amount Uncompleted	\$3,572	\$7,712	\$3,466	\$5,360	
Subcontractor	American Asphalt	G&M Cement	Impressive Const	Gallagher Asphalt	
Type of Work	Heat Scarification	Concrete	Concrete	Heat Scarification	
Subcontract Price	\$121,933	\$393,190	\$33,074	\$157,350	
Amount Uncompleted	\$121,933	\$393,190	\$33,074	\$157,350	
Subcontractor		Galaxy Underground	Fredy's Lanscape		
Type of Work		Underground	Landscape		
Subcontract Price		\$93,665	\$3,784		
Amount Uncompleted		\$93,665	\$3,784		
Subcontractor		Reliable Landscape			
Type of Work		Landscape			
Subcontract Price		\$51,050			
Amount Uncompleted		\$51,050			
<b>Total Uncompleted</b>	<b>\$129,005</b>	<b>\$567,954</b>	<b>\$41,524</b>	<b>\$170,320</b>	

**Notary**

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates.

Officer or Director

Natalia Colella

Title

President

Signature

*Natalia Colella*

Date

8/18/20

Company

Brothers Asphalt Paving, Inc.

Address

315 S. Stewart Avenue

City

Addison

State

IL

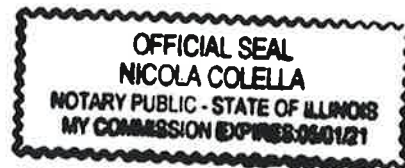
Zip Code

60101

Subscribed and sworn to before me  
this 18th day of August, 2020

*[Signature]*  
(Signature of Notary Public)

My commission expires 05/01/2021



(Notary Seal)

Add pages for additional contracts





**VILLAGE OF VILLA PARK**

**CONTRACT DOCUMENTS**

**FOR**

**PLYMOUTH STREET IMPROVEMENT PROJECT**

**SPECIAL PROVISIONS**



INDEX OF SPECIAL PROVISIONS

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**PROJECT SPECIAL PROVISIONS  
FOR  
PLYMOUTH STREET IMPROVEMENT PROJECT**

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016 (referred to hereinafter as the Standard Specifications); the "Supplemental Specifications and Recurring Special Provisions", adopted January 1, 2020; the latest edition of the "Illinois Manual on Uniform Traffic Control Devices For Streets and Highways" (IMUTCD); and the "Standard Specifications for Water and Sewer Construction in Illinois", 7<sup>th</sup> Edition, 2014 (hereinafter referred to as the Water and Sewer Specifications). In case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern. Where no conflict exists, the said Specifications shall apply to this Contract as if repeated in their entirety herein.

**DEFINITIONS**

**Contractor.** The individual, firm, partnership, joint venture, or corporation contracting with the Village of Villa Park for performance of prescribed work.

**Department, Owner or Village.** The Village of Villa Park, DuPage County, Illinois.

**Engineer.** The Resident Engineer who is the authorized representative of the Village of Villa Park in immediate charge of the engineering details of a construction project.

**Notice to Proceed.** Notice to proceed is defined as one of the following events, whichever occurs first:

- a.) 10 calendar days after the Contract has been signed by both parties;
- b.) The day a written Notice to Proceed is issued by the Village; or
- c.) The day that construction materials or equipment are delivered to the job site.

**LOCATION OF PROJECT**

The proposed work is officially known as the "Plymouth Street Improvement Project". The project involves various improvements in the Village of Villa Park, County of DuPage, State of Illinois:

<b>Street Improvement</b>	<b>Starting Limit</b>		<b>Ending Limit</b>	
PLYMOUTH	FROM	ARDMORE	TO	VILLA

## **DESCRIPTION OF PROJECT**

The scope of work includes a variety of roadway improvement methods ranging from pavement resurfacing to pavement reconstruction. The majority of the roadway is being resurfaced with varying levels of pavement patching and curb and gutter replacement based on field conditions. The remainder of the roadway is being reconstructed with new HMA pavement and curb and gutter.

In general, the work required for the various types of improvements described above are as follows:

- **Roadway Pavement Resurfacing** – The existing PCC surface will be removed and a new HMA surface with polymerized leveling binder will be installed. The existing pavement base and curb and gutter will be inspected for any necessary pavement patching and spot repairs of the curb and gutter. Partial reconstruction of HMA & PCC driveway aprons may be required if curb and gutter is replaced in front of them.
- **Roadway Pavement Reconstruction** – The existing pavement and curb and gutter will be removed. HMA & PCC driveway aprons will be reconstructed. The reconstruction section will be composed of a new combination concrete curb and gutter, Type B-6.12 with 4" of aggregate base course supported on top of geotechnical fabric. The proposed pavement will have 2" of HMA surface course, 4" of HMA binder course, and 6" of aggregate base course supported on top of geotechnical fabric. Undercuts with aggregate subgrade improvement material may be required and will be determined by the Engineer in the field.

Certain sections of roadway will need some minor drainage and utility work. Sidewalks at intersections will need to be replaced and re-graded to meet the Public Right-of-Way Accessibility Guidelines (PROWAG) which includes detectable warnings at curb ramps. Further work will include the installation of erosion control measures, landscaping, pavement markings, signing, and all other collateral work performed as shown in the plans and described herein.

## **GENERAL SPECIAL PROVISIONS**

### **QUALIFICATIONS OF BIDDERS**

Bidders will comply with all applicable Federal, State and local laws and requirements, and will further meet the qualifications prescribed in this and other applicable portions of these provisions.

Bidder, in submitting a Bid, certifies that Bidder is in compliance with all applicable Federal, State and local laws and requirements, and that Bidder further meets the qualifications prescribed in this and other applicable portions of these provisions. Engineer's determination as to the compliance and qualifications of the Bidder will be final, and Bidder, in submitting a Bid, agrees to be bound by that determination.

Bidder, in submitting a Bid, certifies that Bidder is in compliance with the following requirements and qualifications. Bidder further certifies that Bidder is able to provide written evidence of Bidder's compliance with the following requirements and qualifications. Bidder shall, upon request by Engineer, submit such written evidence within five (5) calendar days of the Engineer's request, as well as any other written evidence which Engineer may deem necessary for the purpose of evaluating Bidder's qualifications.

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- (a) Bidder shall be qualified to do business in the State of Illinois.
- (b) Bidder shall possess either a valid Federal Employer Tax Identification Number (FEIN) or a valid Social Security Number (SSN).
- (c) Bidder shall be able to provide a street address and description of the Bidder's place of business, and the mailing address of the business, if different from the street address.
- (d) Bidder shall be able to provide the number of years Bidder has been engaged in the contracting business under the present firm name, and the name of the state where incorporated.
- (e) Bidder shall be able to provide a list of the property and equipment available to the Bidder.
- (f) Bidder shall be able to provide a financial statement demonstrating that the Bidder has the financial resources to meet all obligations related to the Work.
- (g) Bidder shall maintain insurance policies with the coverages required by the Contract, and with the minimum limits of coverage required by the Contract. Bidder shall be able to provide current certificate(s) of insurance for the insurance policies held by Bidder, demonstrating that Bidder holds insurance policies with the coverages required by the contract, and with the minimum limits of coverage required by the Contract.
- (h) Bidder shall have constructed a minimum of three (3) projects of a similar nature in the immediate past five (5) years. Bidder shall be able to provide a list of all projects of a similar nature constructed by Bidder in the immediate past five (5) years, which list shall contain the minimum of three (3) such projects, which list shall provide a description and the location(s) of all such projects, and shall contain the Bidder's performance record and references, as well as the names and current contact information, including addresses and telephone numbers, of persons who acted as owners' representatives for those projects and who have knowledge of those projects, and whom Bidder agrees the Village may contact for the purpose of verifying Bidder's performance and references.
- (i) Bidder shall be able to provide a list of three (3) references (name, address and telephone number) with knowledge of the integrity and business practices of the bidder. Such references may not be persons who have been employed by Bidder as employees.
- (j) Bidder shall be able to provide a list of projects presently under Contract, the awarded Contract amount of each, the approximate adjusted Contract amount of each (if applicable), and the dollar amount or percent of completion of each.
- (k) Bidder shall be able to provide a list of Contracts which have resulted in lawsuits, whether against Bidder as a prime contractor, against Bidder as a subcontractor, or against Bidder as a party in any other capacity; or against subcontractors or suppliers performing work for Bidder or under Contract held by Bidder.
- (l) Bidder shall be able to provide a list of Contracts defaulted.
- (m) Bidder shall be able to provide a statement indicating whether or not Bidder has ever filed bankruptcy.

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- (n) Bidder shall be able to provide a list of all officers of the firm, which list shall also indicate those officers who, while in the employ of the firm or in the employ of previous firms, were associated with Contracts which resulted in lawsuits, Contracts defaulted, or firms which filed for bankruptcy.
- (o) Bidder shall maintain personnel guaranteed to be employed in the responsible charge of the Work, which personnel possess sufficient technical experience to ensure the satisfactory completion of the Work. Bidder shall be able to provide the names and technical experience of such personnel, as well as statements as to whether the personnel have or have not performed satisfactorily on other contracts of like nature and magnitude or comparable difficulty at similar rate of progress.
- (p) Bidder shall be able to provide a list of subcontractors and suppliers anticipated to be employed by Bidder for the purpose of completing the Work, including the firm name, street address and description of place of business; mailing address of business (if different); phone, fax and e-mail contact information of business; name of primary contact; and a list of any projects or contracts for which Bidder currently owes monies to said firm, which list shall include a description of the project or contract, the amount currently due to said firm, the period of time for which those monies have been owed, and the expected date of payment of those monies.
- (q) Bidder shall participate in active apprenticeship and training programs approved by and registered with the United States Department of Labor Bureau of Apprenticeship and Training for each of the trades of work contemplated under the Contract. Bidder shall be able to provide evidence of Bidder's participation in such apprenticeship and training programs.
- (r) Bidder shall only employ subcontractors who meet the requirements prescribed in this section and other sections of these specifications.
- (s) Bidder shall be able to provide such other information as may assist the Village in determining whether the Bidder is adequately prepared to fulfill the Contract.

These requirements and qualifications are not intended to discourage bidding, to make it difficult for qualified Bidders to submit Bids, or to discourage beginning contractors. The purpose of these requirements and qualifications is to allow the Village to obtain sufficient information about Bidder's financial state, available equipment, personnel, and previous work experience so that the Village may mitigate the hazards involved in awarding contracts to parties who may not be qualified to perform the Work as specified.

A copy of Village of Villa Park Ordinance No. 3733, amending the requirements of bidders for construction projects, is provided in Appendix 3.

**BUSINESS ENTERPRISE PROGRAM REQUIREMENTS**

This project will utilize grant funding in the sum of \$733,500.00 and is subject to Business Enterprise Program (BEP) requirements as defined by the State of Illinois Capital Development Board (CDB). These requirements are stated below. More information can be obtained at this link:

<https://www2.illinois.gov/cdb/business/Pages/MinorityWomenBusiness.aspx>

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DBE CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal. In the absence of unlawful discrimination and in an arena of fair and open competition, Minority/Disabled/Veteran owned businesses can be expected to perform 20% (\$146,700.00) and Women Business Enterprises can be expected to perform 5% (\$36,675.00) of the expected grant amount (\$733,500.00). The total DBE utilization amount shall be \$183,375.00. 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 Village will only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set for in this Special Provision:

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

**APPRENTICESHIP REQUIREMENTS**

This Project is required to comply with the Illinois Works Jobs Program Act (30 ILCS 559/20-1 et seq.) and is also required to comply with the Illinois Works Apprenticeship Initiative (30 ILCS 559/20-20 to 20-25) and all applicable administrative rules at 14 Ill. Admin. Code Part 680.

In compliance with the requirements of the Illinois Works Jobs Program Act and the Illinois Works Apprenticeship Initiative, apprentices shall perform at least ten percent (10%) of the total labor hours worked in each prevailing wage classification. This requirement shall apply to all prevailing wage eligible work performed on the entire project.

The contractor shall, with each request for payment, provide a statement of the total labor hours worked in each prevailing wage classification and a statement of the labor hours worked by apprentices in each prevailing wage classification. The Owner at any time after award may require the production of evidence of compliance with these apprenticeship requirements by the contractor and any or all of its subcontractors.

**BID PRICE LIMITATIONS**

The bid price for TRAFFIC CONTROL AND PROTECTION shall not exceed 5 percent of the total bid price. If the bid price for TRAFFIC CONTROL AND PROTECTION exceeds 5 percent of the total bid price, the Village may reject the Bid.

The bid price for CONSTRUCTION LAYOUT shall not exceed 2 percent of the total bid price. If the bid price for CONSTRUCTION LAYOUT exceeds 2 percent of the total bid price, the Village may reject the Bid.

The bid price for PRECONSTRUCTION VIDEO TAPING shall not exceed 1 percent of the total bid price. If the bid price for PRECONSTRUCTION VIDEO TAPING exceeds 1 percent of the total bid price, the Village may reject the Bid.

Bidder, in submitting a Bid, certifies that the Bid is in compliance with these requirements. The Village's determination as to whether or not to reject a Bid that does not comply with these

requirements will be final, and Bidder, in submitting a Bid, agrees to be bound by that determination.

### **BID TO REMAIN SUBJECT TO ACCEPTANCE**

All bids shall remain subject to acceptance by the Village for a period of 60 calendar days from the date of the bid opening. The Village may extend the acceptance period by up to an additional 60 calendar days upon written notice to all bidders by the Village. The Village may, in its sole discretion, release any bid and return the bid bond prior to the end of the acceptance period.

### **SUBCONTRACTORS**

Add the following paragraph to the end of Article 108.01 of the Standard Specifications:

“The apparent low Bidder shall submit to the Village within 7 calendar days after the receipt of bids, a list of the names of Bidder’s proposed subcontractors and material suppliers along with a description of the work to be performed or the materials to be supplied by each.”

### **ILLINOIS RESIDENCY REQUIREMENT FOR PUBLIC WORKS PROJECTS**

Effective July 1, 2020, the workforce on all public works projects shall be comprised of a minimum of 90% Illinois residents. The Illinois Department of Labor (IDOL) administers the Employment of Illinois Workers on Public Works Act, which was enacted to alleviate unemployment in Illinois by ensuring that most workers on public works projects live in the state. The requirement to employ 90 percent Illinois workers applies to all labor on public works projects or improvements, including projects involving the clean-up and on-site disposal of hazardous waste.

The law comes into effect following two consecutive months of a state unemployment rate above 5 percent. According to the U.S. Bureau of Labor Statistics, Illinois’ unemployment rate during the COVID-19 pandemic increased from 4.2 percent in March, to 17.2 percent in April, and 15.2 percent in May.

### **COMPLETION OF PROJECT**

All work shall be substantially completed and the roadways fully open to traffic as specified with these contract documents, less punch list items, within **60 calendar days** of Notice to Proceed. All paving operations shall be completed by November 2, 2020.

Punch list items, including Final Inspection per Article 105.13 of the Standard Specifications, are to be completed within 14 calendar days of substantial completion. In the event the Contractor does not complete the work within the specified calendar days allotted by the contract, then Article 108.09 of the Standard Specifications shall apply except that “working days” will be replaced with “calendar days” in the specified article. Liquidated damages will accrue at a per calendar day rate defined by the table in Article 108.09 of the Standard Specifications.

## FINAL INSPECTION

Final inspection shall be in accordance with Article 105.13 of the Standard Specifications, except as modified herein.

Revise the second paragraph of Article 105.13 to read:

"If the inspection discloses any work, in whole or in part, as being unsatisfactory, the Engineer will give the Contractor the necessary instructions for correction of same, and the Contractor shall comply with such instructions within 14 calendar days of receipt of such instructions. The Contractor shall give the Engineer not less than 48 hours notice, in writing, prior to beginning any such corrective work. Upon completion of all corrective work, the Contractor shall give the Engineer notice in writing. Upon receipt of such notice, the Engineer will make another inspection which shall constitute the final inspection provided the work has been satisfactorily completed. In such event, the Engineer will notify the Contractor in writing of the date of final inspection."

## WORKING HOURS

Working hours will be between 7:00 A.M. and 5:00 P.M., Monday through Friday, excluding legal holidays as designated by the Contract.

Contractor will not permit the performance of work outside these working hours without Owner's written consent, which may be given after prior written request to Engineer, except as otherwise required for the safety of persons or the work or property at the site or adjacent thereto, and except as otherwise stated in the contract documents.

If Contractor permits the performance of work outside these working hours, Contractor will compensate Owner for the costs of inspection and other services provided by Engineer. Owner will determine the rates at which such inspection and other services are to be compensated. Owner will determine the interval or intervals at which billing will take place, and may, at Owner's discretion, submit invoices for payment to Contractor, or deduct the costs from any monies due or to become due to the Contractor from Owner.

## HOLIDAYS

Revise the list of legal holidays in Article 107.09 of the Standard Specifications to read:

New Year's Day	Thanksgiving Day
Easter	<u>Thanksgiving Friday</u>
Memorial Day	<u>Christmas Eve</u>
Independence Day	Christmas Day
Labor Day	<u>New Year's Eve</u>

## PUBLIC CONVENIENCE AND SAFETY (D-1)

Effective: May 1, 2012

Revised: July 15, 2012

Add the following to the end of the fourth paragraph of Article 107.09:

“If the holiday is on a Saturday or Sunday, and is legally observed on a Friday or Monday, the length of Holiday Period for Monday or Friday shall apply.”

Add the following sentence after the Holiday Period table in the fourth paragraph of Article 107.09:

“The Length of Holiday Period for Thanksgiving shall be from 5:00 AM the Wednesday prior to 11:59 PM the Sunday After”

Delete the fifth paragraph of Article 107.09 of the Standard Specifications:

“On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical.”

## **INSURANCE**

Insurance and indemnification shall be according to applicable sections of the Standard Specifications, and shall also be according to the “IRMA Contractual Insurance Guidelines”, incorporated herein as Appendix 3. If a conflict is determined to exist between the requirements prescribed in the Standard Specifications and the requirements prescribed in the IRMA Contractual Insurance Guidelines, such conflict will be resolved as follows:

- a. If a particular type of insurance coverage is required by one standard but not by both, that type of insurance coverage will be required.
- b. If the minimum limits of insurance coverage required by one standard differ from those required by the other standard, the higher minimum limits of insurance coverage will prevail.
- c. If any other conflicts are determined to exist between the requirements prescribed in the two standards, the stricter of the two requirements will prevail. Owner will make the final determination as to what constitutes a stricter requirement.

## **MAINTENANCE WARRANTY**

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 all work is in accordance with the contract and will not be defective. This warranty shall guarantee all work for a period of 1 year from the date of final inspection.

The Contractor shall furnish a warranty bond in an amount equal to 10 percent of the final contract amount, or \$75,000, whichever is greater, by a surety satisfactory to the Village to guarantee Contractor’s warranty to repair defective work.

If, within the warranty period, the Village determines any work to be defective, a written notice of such deficiency will be sent to the Contractor by certified mail.

The Contractor shall, within 14 calendar days of receipt of the notice of deficiency, and without cost to the Village, correct or repair such defective work, or remove and replace the defective work in accordance with the contract requirements for the item or items in question.

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If Contractor desires an extension of time to complete the corrective work, Contractor shall make such request in writing within 10 calendar days of receipt of the notice of deficiency. After the Contractor has filed a request for an extension of time, the Village will notify the Contractor, in writing, whether or not such extension will be approved.

Should the Contractor fail to complete the corrective work within the 14 calendar days or within such extended time as may have been allowed, the Contractor shall be liable and shall pay to the Village the amount shown in the Schedule of Deductions for Each Day of Overrun in Contract Time, not as a penalty but as liquidated damages, for each day of overrun beyond the 14 calendar days or such extended time as may have been allowed

### **MOBILIZATION**

**Description.** Mobilization shall be performed in accordance with Section 671 of the Standard Specifications, with the following modifications:

**Basis of Payment.** Mobilization will not be paid for separately but shall be considered as included in the unit bid prices of the contract, and additional compensation will not be allowed.

### **CONSTRUCTION SAFETY AND HEALTH STANDARDS**

It is a condition of this contract and shall be made a condition of each subcontract entered into pursuant to this contract that the Contractor and any Subcontractor shall not require any laborer or mechanic employed in performance of the contract to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous to their health or safety, as determined under Federal Construction Safety and Health Standards.

### **PORTABLE TOILET**

**Description.** Contractor shall furnish a portable toilet meeting Federal, State and local health department requirements stocked with lavatory and sanitary supplies at all times. The portable toilet shall be provided at a location approved by the Engineer. The portable toilet shall be maintained in a clean and sanitary condition and shall be emptied as needed.

**Basis of Payment.** This work will not be paid for separately but shall be considered as included in the unit bid prices of the contract, and additional compensation will not be allowed.

### **MAINTENANCE OF ROADWAYS (D-1)**

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.

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".

### **KEEPING ROADS OPEN TO TRAFFIC**

All roads shall remain open to traffic unless otherwise shown on the contract plans. When necessary to close one lane because of construction, the Contractor shall maintain one-way traffic during construction hours with the use of signs and flaggers as shown on the Traffic Control Standards. Two lanes of traffic will be maintained during nights and weekends when no construction activities are being carried on.

### **RESPONSIBILITY FOR VANDALISM**

The Contractor shall be responsible for the protection of all equipment and materials. Any equipment or materials which are stolen, missing, damaged or vandalized shall be the Contractor's responsibility to repair or replace as needed at no additional cost to the contract.

The Contractor shall be responsible for the defacement of any concrete pours before they have set up. Concrete pavement, sidewalk, driveway, or curbing that has been defaced, in the opinion of the Engineer, shall be removed and replaced by the Contractor at Contractor's own expense.

### **CONCRETE WASHOUT FACILITY**

**Description.** The Contractor shall take sufficient precautions to prevent pollution of streams, lakes, reservoirs, and wetlands with fuels, oils, bitumens, calcium chloride, or other harmful materials according to Article 107.23 of the Standard Specifications.

**General.** To prevent pollution by residual concrete and/or the by-product of washing out the concrete trucks, concrete washout facilities shall be constructed and maintained on any project which includes cast-in-place concrete items. The concrete washout shall be constructed, maintained, and removed according to this special provision.

The concrete washout facility shall be constructed on the job site in accordance with Illinois Urban Manual practice standard for Temporary Concrete Washout Facility (Code 954). The Contractor may elect to use a pre-fabricated portable concrete washout structure. The Contractor shall submit a plan for the concrete washout facility, to the Engineer for approval, a minimum of 10 calendar days before the first concrete pour. The working concrete washout facility shall be in place before any delivery of concrete to the site. The Contractor shall ensure that all concrete washout activities are limited to the designated area.

The concrete washout facility shall be located no closer than 50 feet from any environmentally sensitive areas, such as water bodies, wetlands, and/or other areas indicated on the Plans. Adequate signage shall be placed at the washout facility and elsewhere as necessary to clearly indicate the location of the concrete washout facility to the operators of concrete trucks.

The concrete washout facility shall be adequately sized to fully contain the concrete washout needs of the project. The contents of the concrete washout facility shall not exceed 75% of the facility

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capacity. Once the 75% capacity is reached, concrete placement shall be discontinued until the facility is cleaned out. Hardened concrete shall be removed and properly disposed of outside the right-of-way. Slurry shall be allowed to evaporate, or shall be removed and properly disposed of outside the right-of-way. The Contractor shall immediately replace damaged basin liners or other washout facility components to prevent leakage of concrete waste from the washout facility. Concrete washout facilities shall be inspected by the Contractor after each use. Any and all spills shall be reported to the Engineer and cleaned up immediately. The Contractor shall remove the concrete washout facility when it is no longer needed.

**Basis of Payment.** This work will not be paid for separately but shall be considered as included in the unit bid prices of the contract, and additional compensation will not be allowed.

### **USE OF FIRE HYDRANTS**

Revise Article 107.18 of the Standard Specifications to read:

**“107.18 Use of Fire Hydrants.** If Contractor requires water for the completion of construction operations, and desires to obtain water from the Village, the Contractor shall make written application to the Village. If such application is approved by the Village, the Contractor shall obtain water from the fire hydrant located at 100 West Home Avenue, adjacent to the Village of Villa Park Fleet Maintenance Garage. Contractor’s use of said hydrant and methods of obtaining water shall be in compliance with all applicable ordinances, rules, and regulations concerning such use. Contractor shall furnish all labor and equipment necessary to make a connection to said hydrant, and to obtain and transport water.

Prior to obtaining water, Contractor shall make written application to the Village for temporary use of a hydrant meter. If the application for temporary use of a hydrant meter is approved, the Contractor shall provide a deposit of three-thousand dollars (\$3,000.00) to the Village for the temporary use of said hydrant meter, which deposit will be held by the Village until such time that the meter is returned to the Village by the Contractor in satisfactory condition. Contractor shall use said hydrant meter when obtaining water, and shall comply with all conditions for the use of said meter. Contractor shall return the hydrant meter to the Village within 24 hours of project completion and within 24 hours of any request by the Village that the hydrant meter be returned.

If Contractor makes application for temporary use of a hydrant meter and the application is not approved, Contractor shall make record of the quantity of water obtained, along with the date and time obtained, and shall report such information after each use to the Village of Villa Park Public Works Department, 11 West Home Avenue. If such use takes place outside of the normal working hours of the Public Works Department, Contractor shall report such information immediately upon the commencement of normal working hours.

Contractor shall not use, operate or obtain water from any hydrants other than the hydrant prescribed. Contractor shall not obtain water from the Village for construction operations or activities not under contract with the Village.

If a water main break occurs and the Village determines that the water main break is a result of Contractor’s use of a hydrant, the Village may require the Contractor to repair the water main break in accordance with all applicable construction standards and requirements and at no cost to the contract, or may repair the water main break by other means and invoice the Contractor for reimbursement of the Village’s costs.

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Water usage will be measured according to the Special Provisions WATER USAGE DEDUCTION and WATER USAGE CREDIT."

**OPERATION OF WATER DISTRIBUTION FACILITIES**

Contractor shall not operate any water distribution facilities, including, but not limited to, valves or hydrants. If Contractor requires the operation of such facilities, Contractor shall provide a minimum of 48 hours notice to the Village and the Village will operate such facilities.

**PROTECTION OF EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION**

Unless otherwise noted in the contract plans, the existing drainage facilities shall remain in use during the period of construction.

Locations of existing drainage structures and sewers as shown on the contract plans are approximate. Prior to commencement of work, the Contractor, at his own expense, shall determine the exact location of existing structures which are within the proposed construction site.

All drainage structures are to be kept free from any debris resulting from construction operations. All work and materials necessary to prevent accumulation of debris in the drainage structure resulting from construction operations shall be removed at the Contractor's own expense, and no extra compensation will be allowed.

Unless reconstruction or adjustment of an existing manhole, catch basin, or inlet is called for in the contract plans or ordered by the Engineer, the proposed work shall meet the existing elevations of these structures. Should reconstruction or adjustment of a drainage structure be required by the Engineer in the field, the necessary work and payment shall be done in accordance with Section 602 and Article 104.02 respectively, of the Standard Specifications.

Existing frames and grates are to remain unless otherwise noted in the contract plans or as directed by the Engineer. Frames and grates that are missing or damaged prior to construction shall be replaced. The type of replacements frame or grate shall be determined by the Engineer, and replacement and payment for same shall be in accordance with Section 604 and Article 104.02 respectively, of the Standard Specifications unless otherwise noted in the plans or special provisions.

**DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (D-1)**

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

Add the following to Article 603.02 of the Standard Specifications:

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

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

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

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

Revise Article 603.07 of the Standard Specifications to read:

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

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

- (a) Temporary Asphalt Ramps. Temporary hot-mix asphalt ramps shall be placed around the casting, flush with its surface and decreasing to a featheredge in a distance of 2 ft. (600 mm) around the entire surface of the casting.
- (b) Temporary Rubber Ramps. Temporary rubber ramps shall only be used on roadways with permanent posted speeds of 40 mph or less and when the height of the casting to be protected meets the proper sizing requirements for the rubber ramps as shown below.

Dimension	Requirement
Inside Opening	Outside dimensions of casting + 1 in. (25 mm)
Thickness at inside edge	Height of casting ± 1/4 in. (6 mm)
Thickness at outside edge	1/4 in. (6 mm) max.
Width, measured from inside opening to outside edge	8 1/2 in. (215 mm) min

Placement shall be according to the manufacturer's specifications.

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

**BRACING AND SHEETING**

**Description.** The Contractor, if necessary, shall furnish, place and maintain all bracing and sheeting to safeguard adjacent utilities, as well as the work done under this contract.

**Construction Methods.** If at any time the method being used by the Contractor for supporting any material, highway or utility structure adjacent to any excavation is not reasonably safe, in the opinion of the Engineer, the Engineer may require and the Contractor shall provide additional bracing and support necessary to furnish the added degree of safety required by the Engineer. The Contractor shall provide such additional bracing and support by any method approved by the Engineer, as he may elect to use, but the taking of such added precautions shall in no way relieve the Contractor of his sole and final responsibility for the safety of lives, work and structures.

**Basis of Payment.** The cost of such required bracing and sheeting will not be paid for separately but shall be considered as included in the unit bid prices of the contract, and additional compensation will not be allowed.

## EARTHWORK

**Description.** The Village did a detailed soil investigation and analysis during the design phase of this project to determine the presence of any non-special waste material. The LPC 662 & 663 forms along with pertinent exhibits showing the extent of non-special waste material have been included in Appendix 5. This work shall be performed in accordance with Sections 202 and 669 of the Standard Specifications, with the following modifications:

The Contractor is expected to coordinate with the soil disposal site the soil results found in Appendix 5 prior to any excavation operations. The Contractor is also expected to keep the clean construction demolition debris (CCDD) material separate from the non-special waste material indicated by their locations shown in the soil exhibits found in Appendix 5. The Contractor is not allowed to claim the entire project site as non-special waste disposal just because one sample location was tested and displayed non-special waste material.

The Village will not be responsible for any additional soil disposal costs if the soil disposal site chosen by the Contractor rejects loads due to photoionization readings. Photoionization detector (PID) readings are not acceptable results for determining classification of the excavated material. Should a licensed landfill reject any load, analytical chemical testing shall be performed on the excavated material by an IEPA National Environmental Laboratory Accreditation Program (NELAP) approved laboratory on representative samples obtained in accordance with standard IEPA protocol and frequencies. The analytical chemical testing shall be completed by a qualified, independent testing agency hired and paid for by the Contractor. SW-846 Analytical Laboratory Procedures (USEPA) methods will be used for analysis. If the test results are inconclusive, or when the test results indicate levels that do not exceed the Residential Tier 1 Soil and/or Class One Groundwater Remediation Objectives (SRO & GRO) presented in 35 Illinois Administrative Code 742 (IAC) the removal and disposal of the excavated material shall be classified as EARTH EXCAVATION or REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL as defined in Section 202 of the Standard Specifications and further defined below. The Contractor shall be responsible for transporting this material to a site that will accept the material. No additional compensation will be allowed for this testing, transportation or disposal.

When test results indicate that the materials exceed said SROs and GROs objectives, the material shall be classified as Non-Special Waste. All costs for excavation, testing, transportation and disposal of Non-Special Waste shall be included in the contract unit price for NON-SPECIAL WASTE DISPOSAL.

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Disposal operations shall only proceed with the authorization of the Engineer. The Village has the right to require that **all** sampling be performed in the presence of the Engineer or the Village's authorized representative.

**Method of Measurement.** No adjustment to the awarded contract unit prices for EARTH EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL and NON-SPECIAL WASTE DISPOSAL pay items will be allowed because of changes to quantities based on actual field conditions. At locations where existing pavement removal and excavation is indicated in the plans, or as otherwise directed by the Engineer, it may be necessary to remove underlying unsuitable soils. It is understood and agreed that the actual need for removal of unsuitable material will be determined in the field at the time of construction by the Engineer.

**Basis of Payment.** Earth excavation will be paid for at the contract unit price per cubic yard for EARTH EXCAVATION. Removal and disposal of unsuitable and/or unstable material will be paid for at the contract unit price per cubic yard for REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. The excavation, testing, transportation, and disposal of soil and other materials from an excavation determined to be contaminated as described above and indicated in Appendix 5 will be paid for at the contract unit price per cubic yard for NON-SPECIAL WASTE DISPOSAL. All prices shall include other items of work included under the general heading of Earthwork for which no payment item is included in the contract.

#### **TRENCH BACKFILL AND PIPE BEDDING**

**Description.** All trench backfill and pipe bedding materials furnished under this contract shall be virgin, non-recycled materials.

All trench backfill shall be crushed aggregate of CA-6 gradation. The aggregate material shall be placed in lifts not exceeding 8 in. in depth, loose measurement, and compacted by mechanical means to the satisfaction of the Engineer.

All pipes installed under this contract shall be placed on a bedding of crushed aggregate of CA-7 or CA-11 gradation having a minimum thickness of 4 in. The bedding shall be placed to a minimum of 12 in. above the top of the pipe and fittings and compacted mechanically to the satisfaction of the Engineer. Then the remaining trench will be backfilled with trench backfill material to the subgrade of the pavement, driveway, curb and gutter, sidewalk, or any other paved surface.

**Basis of Payment.** The cost of furnishing and installing pipe bedding materials will not be paid for separately but shall be included in the cost of items to which this work pertains. Trench backfill will be paid for according to Article 208.04 of the Standard Specifications.

#### **FRICTION AGGREGATE (D-1)**

Effective: January 1, 2011

Revised: April 29, 2016

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

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

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

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	<u>Allowed Alone or in Combination</u> <sup>5/</sup> : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete
HMA Low ESAL	Stabilized Subbase or Shoulders	<u>Allowed Alone or in Combination</u> <sup>5/</sup> : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag <sup>1/</sup> Crushed Concrete
HMA High ESAL Low ESAL	Binder IL-19.0 or IL-19.0L  SMA Binder	<u>Allowed Alone or in Combination</u> <sup>5/ 6/</sup> : Crushed Gravel Carbonate Crushed Stone <sup>2/</sup> Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete <sup>3/</sup>
HMA High ESAL Low ESAL	C Surface and Leveling Binder IL-9.5 or IL-9.5L  SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> <sup>5/</sup> : Crushed Gravel Carbonate Crushed Stone <sup>2/</sup> Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag <sup>4/</sup> Crushed Concrete <sup>3/</sup>

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Use	Mixture	Aggregates Allowed	
HMA High ESAL	D Surface and Leveling Binder IL-9.5  SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> <sup>5/</sup> : Crushed Gravel Carbonate Crushed Stone (other than Limestone) <sup>2/</sup> Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag <sup>4/</sup> Crushed Concrete <sup>3/</sup>	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		25% Limestone	Dolomite
		50% Limestone	Any Mixture D aggregate other than Dolomite
		75% Limestone	Crushed Slag (ACBF) or Crushed Sandstone
HMA High ESAL	E Surface IL-9.5  SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> <sup>5/ 6/</sup> : Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		50% Dolomite <sup>2/</sup>	Any Mixture E aggregate
		75% Dolomite <sup>2/</sup>	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

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

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

**HMA MIXTURE DESIGN REQUIREMENTS (D-1)**

Effective: January 1, 2013

Revised: April 1, 2016

**1) Design Composition and Volumetric Requirements**

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

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

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

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

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

2/ The coarse aggregates used shall be capable of being combined with stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation and mineral filler to meet the approved mix design and the mix requirements noted herein.

3/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve.

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

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

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

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

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

“High ESAL	IL-19.0 binder; IL-9.5 surface; IL-4.75; SMA-12.5, SMA-9.5
Low ESAL	IL-19.0L binder; IL-9.5L surface; Stabilized Subbase (HMA) <sup>1/</sup> ; HMA Shoulders <sup>2/</sup>

1/ Uses 19.0L binder mix.

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

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

**“1030.02 Materials.** Materials shall be according to the following.

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

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

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

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that produces either Type I or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

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

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

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

High ESAL, MIXTURE COMPOSITION (% PASSING) <sup>1/</sup>										
Sieve Size	IL-19.0 mm		SMA <sup>4/</sup> IL-12.5 mm		SMA <sup>4/</sup> IL-9.5 mm		IL-9.5 mm		IL-4.75 mm	
	min	max	min	max	min	max	min	max	min	max
1 1/2 in (37.5 mm)										
1 in. (25 mm)		100								
3/4 in. (19 mm)	90	100		100						
1/2 in. (12.5 mm)	75	89	80	100		100		100		100
3/8 in. (9.5 mm)				65	90	100	90	100		100
#4 (4.75 mm)	40	60	20	30	36	50	34	69	90	100
#8 (2.36 mm)	20	42	16	24 <sup>5/</sup>	16	32 <sup>5/</sup>	34 <sup>6/</sup>	52 <sup>2/</sup>	70	90
#16 (1.18 mm)	15	30					10	32	50	65
#30 (600 μm)			12	16	12	18				
#50 (300 μm)	6	15					4	15	15	30
#100 (150 μm)	4	9					3	10	10	18
#200 (75 μm)	3	6	7.0	9.0 <sup>3/</sup>	7.5	9.5 <sup>3/</sup>	4	6	7	9 <sup>3/</sup>
Ratio Dust/Asphalt Binder		1.0		1.5		1.5		1.0		1.0

1/ Based on percent of total aggregate weight.

2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign = 90.

3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.

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- 4/ The maximum percent passing the #635 (20 µm) sieve shall be ≤ 3 percent.
- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.
- 6/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.

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

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

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

1/ Maximum Draindown for IL-4.75 shall be 0.3 percent

2/ VFA for IL-4.75 shall be 72-85 percent”

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

“(3) SMA Mixtures.

Volumetric Requirements SMA <sup>1/</sup>			
Ndesign	Design Air Voids Target %	Voids in the Mineral Aggregate (VMA), % min.	Voids Filled with Asphalt (VFA), %
80 <sup>4/</sup>	3.5	17.0 <sup>2/</sup>	75 - 83
		16.0 <sup>3/</sup>	

1/ Maximum draindown shall be 0.3 percent. The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30 °F.

2/ Applies when specific gravity of coarse aggregate is ≥ 2.760.

3/ Applies when specific gravity of coarse aggregate is < 2.760.

- 4/ Blending of different types of aggregate will not be permitted.  
For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone.

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

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

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

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

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

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

## **2) Design Verification and Production**

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

“(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (IL mod AASHTO T-324) and the Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department’s verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

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

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

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Illinois Modified AASHTO T 324 Requirements <sup>1/</sup>

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

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

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

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

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

- "(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip, except for SMA mixtures it will be 400 ton (363 metric ton), will be required at the beginning of HMA production for each mixture with a quantity of 3000 tons (2750 metric tons) or more according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures".

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

"The Hamburg Wheel test shall also be conducted on all HMA mixtures from a sample taken within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day's production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.

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

Method of Measurement:

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

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

Basis of Payment.

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

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

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

Effective: November 1, 2012

Revise: April 1, 2017

Revise Section 1031 of the Standard Specifications to read:

**“SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES**

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

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

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

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including unprocessed RAP and FRAP) shall

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be identified by signs indicating the type as listed below (i.e. "Non- Quality, FRAP #4 or Type 2 RAS", etc...).

- (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. All FRAP shall be processed prior to testing and sized into fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mix the FRAP will be used in.
- (2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, Superpave (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 in. (75 mm) single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from HMA shoulders, bituminous stabilized subbases or Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

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

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

However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of Type 1 RAS with Type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation

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Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

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

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

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

Before extraction, each field sample of FRAP, shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

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

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

Before extraction, each field sample shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

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

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

Parameter	FRAP
No. 4 (4.75 mm)	± 6 %
No. 8 (2.36 mm)	± 5 %
No. 30 (600 μm)	± 5 %
No. 200 (75 μm)	± 2.0 %
Asphalt Binder	± 0.3 %
$G_{mm}$	± 0.03 <sup>1/</sup>

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

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

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

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

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

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

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

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

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

The Engineer will notify the Contractor of observed deficiencies.

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

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

1/ Based on washed extraction.

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

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

**1031.05 Quality Designation of Aggregate in RAP and FRAP.**

- (a) **RAP.** The aggregate quality of the RAP for homogeneous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP

stockpile and are designated as follows.

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

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

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

- (a) FRAP. The use of FRAP in HMA shall be as follows.
- (1) Coarse Aggregate Size (after extraction). The coarse aggregate in all FRAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
  - (2) Steel Slag Stockpiles. FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.
  - (3) Use in HMA Surface Mixtures (High and Low ESAL). FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.
  - (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base

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Course Widening. FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.

- (5) Use in Shoulders and Subbase. FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, Restricted FRAP, conglomerate, or conglomerate DQ.
- (b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.
- (c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0 percent by weight of the total mix.

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

**Max Asphalt Binder Replacement for FRAP with RAS Combination**

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

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the percent asphalt binder replacement shall not exceed 50 % of the total asphalt binder in the mixture.
- 2/ When the binder replacement exceeds 15 % for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 % binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 %, the required virgin asphalt binder grade shall be PG64-28.
- 3/ When the ABR for SMA or IL-4.75 is 15 % or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.
- 4/ When FRAP or RAS is used alone, the maximum percent asphalt binder replacement designated on the table shall be reduced by 10 %.

**1031.07 HMA Mix Designs.** At the Contractor's option, HMA mixtures may be constructed

utilizing RAP/FRAP and/or RAS material meeting the detailed requirements specified herein.

- (a) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.
- (b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design. A RAS stone bulk specific gravity (Gsb) of 2.300 shall be used for mix design purposes.

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

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized material. If 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 during mix production, corrective actions fail to maintain FRAP, RAS or QC/QA test results within control tolerances or the requirements listed herein the Contractor shall cease production of the mixture containing FRAP or RAS and conduct an investigation that may require a new mix design.

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

(1) Dryer Drum Plants.

- a. Date, month, year, and time to the nearest minute for each print.
- b. HMA mix number assigned by the Department.
- c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

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

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

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

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

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

Effective: June 26, 2006

Revised: April 1, 2016

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

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

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

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

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

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

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

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

“(c) RAP Materials (Note 5) .....1031”

Add the following note to 1030.02 of the Standard Specifications:

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

**FRAMES, GRATES, AND LIDS**

Frames, grates, lids and all other castings furnished under this contract shall be in accordance with Section 602 and Section 604 of the Standard Specifications, except as modified herein.

Castings shall conform to ASTM A48 Class 30. Castings shall be free of cracks, holes, swells, cold shuts, and patches. Castings shall not be coated or painted.

Frames, grates, lids and other castings shall be furnished in accordance with the following:

Type 1 frames and closed lids shall be Neenah R-1713 self-sealing or approved equal.

Type 1 frames and open lids shall be Neenah R-1713 or approved equal.

Type 11 frames and grates located in barrier curb and gutter shall be Neenah R-3281-A with curb box or approved equal.

Type 11 frames and grates located in depressed curb and gutter shall be Neenah R-3281-A with depressed curb grate or approved equal.

All other castings not specified above shall be as shown on the plans or as directed by the Engineer. If any of the castings specified are not compatible in the field due to frame height or other constraints, the Contractor shall propose an alternate casting to the Engineer for approval and shall furnish the alternate casting if approved.

Frames, grates, lids and other castings located within curb ramps or crosswalks shall be substituted with ADA compliant castings.

All closed lid castings furnished under this contract shall be self-sealing, gasketed, watertight, and shall have machined bearing surfaces and concealed pick holes. The top surface of all closed lids shall be embossed with the words “VILLAGE OF VILLA PARK”. The top surface of closed lids shall also be embossed with the word “SANITARY”, “STORM”, or “WATER” as appropriate.

Enviro-curb logos on curb boxes for Type 11 frames and grates shall have the words “DUMP NO WASTE” and “DRAINS TO RIVER” or “DRAINS TO WATERWAY” cast into the top of all curb boxes.

This work will not be paid for separately but shall be included in the cost of all pay items that include the furnishing of frames, grates, lids, or other castings.

## **ADJUSTING RINGS**

All drainage and utility structures which are constructed, reconstructed, or adjusted as a part of this contract shall have adjusting rings installed between the topmost section of the structure and the casting.

Each structure shall be fitted with a minimum of one adjusting ring and a maximum of two adjusting rings. The topmost adjusting ring on each structure shall be rubber. The second adjusting ring on each structure, if needed, shall be precast concrete with steel reinforcement. The total height of all adjusting rings on a single structure shall be a minimum of 2 in. and a maximum of 12 in.

The mating faces of adjusting rings shall be smooth, parallel, and free of cracks, chips, spalling, or casting irregularities. Rubber mastic shall be installed between each joint.

Adjusting rings will not be paid for separately but shall be included in the cost of the items to which this work pertains.

## **SALVAGE AND DISPOSAL OF EXISTING MATERIALS**

Existing manufactured materials which are removed and are not to be reused, including, but not limited to, frames, grates, lids, castings, sign posts, sign panels, fire hydrants, valves, stops, and fittings, shall remain the property of the Village unless the Engineer waives this requirement as specified herein.

Existing manufactured materials which are removed and are not to be reused will be inspected by the Engineer. Materials which are determined by the Engineer to be in satisfactory condition shall remain the property of the Village and shall be delivered by the Contractor to the Village of Villa Park Public Works Department yard located at 51 South Ardmore Avenue in Villa Park. Delivery shall be made during the normal working hours of the Village of Villa Park Public Works Department and the Contractor shall coordinate the day, time, and other details of delivery with the Village.

Materials which are determined by the Engineer to be in unsatisfactory condition shall become the property of the Contractor and shall be removed from the site by the end of the workday and properly disposed of by the Contractor.

The delivery or disposal of materials will not be paid for separately but shall be included in the cost of all items that include removal of existing materials.

## **DATE OF MANUFACTURE**

All manufactured materials furnished under this contract, including, but not limited to, frames, grates, lids, castings, fire hydrants, pipe, drainage and utility structures, valves, stops, and fittings, shall have been manufactured no earlier than January 1 of the calendar year in which they are to be installed.

## **DROP HAMMERS**

The use of drop hammers or similar equipment will not be permitted.

## TRAFFIC CONTROL PLAN

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.

### STANDARDS:

701011-04	Off-Rd Moving Operations, 2L, 2W, Day Only
701301-04	Lane Closure, 2L, 2W, Short Time Operations
701311-03	Lane Closure, 2L, 2W, Moving Operations - Day Only
701501-06	Urban Lane Closure, 2L, 2W, Undivided
701801-06	Sidewalk, Corner or Crosswalk Closure
701901-08	Traffic Control Devices

### DETAILS:

Traffic Control and Protection for Side Roads, Intersections, and Driveways (TC-10)  
District One Typical Pavement Markings (TC-13)

### SPECIAL PROVISIONS:

LRS 3 – Work Zone Traffic Control Surveillance  
"Public Convenience and Safety"  
"Maintenance of Roadways"  
"Keeping Roads Open to Traffic"

## PAY ITEM SPECIAL PROVISIONS

### **PAY ITEM #4 – TREE ROOT PRUNING**

**Description.** This work shall be performed in accordance with Section 201 of the Standard Specifications, with the following modifications:

This work shall consist of pruning tree root structures using disc blade trenching equipment, trench backfilling and mulching. Pruning will be required where construction activities will encroach upon critical root zone areas as designated by the Engineer.

The trench width for root pruning shall not exceed 6". Root pruning shall be to a depth of not less than 18". All pruning operations shall be completed prior to beginning any work which would disturb the root zone. The trench shall be backfilled and loosely compacted. Immediately following the completion of root pruning activities, Contractor shall erect protective fencing around those trees designated by the Engineer, so as to enclose the remainder of the critical root zone as shown in the construction details.

**Method of Measurement.** This work shall also include all fertilizer nutrients and supplemental watering described in Article 201.06. These items will not be measured for payment separately but shall be considered as included in the cost of TREE ROOT PRUNING.

**Basis of Payment.** This work will be paid for at the contract unit price per each for TREE ROOT PRUNING.

#### **PAY ITEMS #5 & #6 – TREE PRUNING**

**Description.** This work shall be performed in accordance with Section 201 of the Standard Specifications and ANSI A300 (Part 1), with the following modifications:

All tree pruning shall be performed by a professional arborist. Branch pruning will be allowed outside the dormant period.

**Basis of Payment.** This work will be paid for at the contract unit price per each for TREE PRUNING (1 TO 10 INCH DIAMETER) or TREE PRUNING (OVER 10 INCH DIAMETER).

#### **PAY ITEM #12 – INLET FILTERS**

**Description.** This work shall be performed in accordance with Section 280 of the Standard Specifications, with the following modifications:

Inlet filters shall consist of metal frames with attached fabric bags. Contractor shall furnish inlet filters of appropriate sizes and shapes necessary to accommodate all different types of drainage structures encountered. The use of filter fabric without a frame will not be an acceptable material for inlet filters and will be rejected.

Contractor shall inspect and clean all inlet filters weekly, after every rainfall, and additionally as needed. Maintenance and cleaning of inlet filters will not be paid for separately but shall be included in the cost of this work.

**Method of Measurement.** This work will be measured for payment as each individual inlet filter installed and the unit of measurement will be each. No measurement will be made of maintenance and cleaning efforts. If an inlet filter is installed on multiple structures the inlet filter will only be measured for payment once.

**Basis of Payment.** This work will be paid for at the contract unit price per each for INLET FILTERS.

#### **PAY ITEM #13 – AGGREGATE SUBGRADE IMPROVEMENT**

Add the following Section to the Standard Specifications:

##### **"SECTION 303. AGGREGATE SUBGRADE IMPROVEMENT**

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

**303.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate .....	1004.07
(b) Reclaimed Asphalt Pavement (RAP) (Notes 1, 2 and 3) .....	1031

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

Note 2. The RAP used for aggregate subgrade improvement shall be according to the current Bureau of Materials and Physical Research Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".

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

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

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

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

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

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

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

Add the following to Section 1004 of the Standard Specifications:

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

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

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- (b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials. Non-mechanically blended RAP may be allowed up to a maximum of 5.0 percent.
- (c) Gradation.
- (1) The coarse aggregate gradation for total subgrade thickness of less than 9 in. (225 mm) shall be CA 2 or CA 6.
- (2) The coarse aggregate gradation for total subgrade thicknesses of 9 in. (225 mm) or greater shall be CS 01.

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

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

**PAY ITEM #16 – BITUMINOUS MATERIALS (TACK COAT)**

**Description.** This work shall be performed in accordance with Section 406 of the Standard Specifications, with the following modifications:

Bituminous tack coat shall be placed at least one hour in advance of the placement of HMA, but no more than forty-eight hours in advance of the placement of HMA. If Contractor places tack coat more than forty-eight hours in advance of the placement of HMA, the tack coat will not be measured for payment, and Contractor will place tack coat again in accordance with this provision. Tack coat will not be placed on weekends or on legal holidays unless permitted by the Engineer. Tack coat will not be placed before weekends or legal holidays when placement of HMA is not expected to take place until after the weekend or legal holiday, unless permitted by the Engineer.

**Basis of Payment.** This work will be paid for at the contract unit price per pound of residual asphalt for BITUMINOUS MATERIALS (TACK COAT).

**PAY ITEM #18 – HOT-MIX ASPHALT SURFACE REMOVAL – BUTT JOINT**

**Description.** This work shall consist of constructing a butt joint and a satisfactory transition between pavement being removed and pavement remaining in place, in accordance with Articles 406.08 and 440.04 of the Standard Specifications, with the following modifications:

Contractor shall saw the joint between pavement remaining and pavement being removed, with a concrete sawing machine. Depth shall be as shown in the plans or construction details. This work

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shall be done in such a manner that a straight joint will be secured, and this work shall be considered as included in the unit bid price of this item.

The removal of existing pavement surface shall be according to Section 440 of the Standard Specifications. Should any pavement be damaged by removal operations beyond the construction limits shown in the plans to a degree sufficient to warrant replacement in Engineer's judgment, Contractor shall replace it in kind for no additional payment.

**Method of Measurement.** Surface removal will be measured in place and the area computed in square yards. The square yards measured will be paid for only once, regardless of the number of passes needed to remove the material.

**Basis of Payment.** This work will be paid for at the contract unit price per square yard for HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT.

**PAY ITEM #22 – DETECTABLE WARNINGS**

**Description.** This work shall be performed in accordance with Section 424 of the Standard Specifications, with the following modifications:

Detectable warnings shall be installed at curb ramps and other locations where pedestrians are required to cross a hazardous vehicular way. Detectable warnings shall also be installed at alleys and commercial entrances where permanent traffic control devices are present.

**Materials.** Detectable warnings shall be pre-cast tiles. Installation shall be cast-in-place. Surface mounted applications will not be permitted. Detectable warnings shall be red in color. Detectable warning tiles shall be either rectangular or radial in shape as shown on the plans or as directed by the Engineer. The product or products to be used for detectable warnings shall be approved by the Engineer prior to use.

**Construction.** Installation shall be according to the manufacturer's specifications and as directed by the Engineer.

Where a curb ramp is 5 ft. in width or less and a rectangular detectable warning tile is to be used, the installation shall consist of a single detectable warning tile. If a pre-cast detectable warning tile is not manufactured in the width of the curb ramp, a larger detectable warning tile shall be furnished and shall be cut to the width of the curb ramp.

Installation of multiple detectable warning tiles at a single curb ramp will only be permitted where a curb ramp exceeds 5 ft. in width or where radial detectable warning tiles are to be used. Where multiple detectable warning tiles are permitted at a single curb ramp, they shall be mechanically joined prior to installation.

**Method of Measurement.** Detectable warnings will be measured for payment in place and the area computed in square feet.

**Basis of Payment.** This work will be paid for at the contract unit price per square foot for DETECTABLE WARNINGS.

**PAY ITEM #27 – CLASS C PATCHES**

**Description.** This work shall be performed in accordance with Section 442 and Article 701.17(e) of the Standard Specifications, with the following modifications:

Pavement patching shall not exceed beyond half the roadway width at a time. Pavement patching will not be quantified by type or types of patching areas. The class of patch shall only specify a depth.

All patches shall be saw cut full-depth prior to removal of the existing pavement. Saw cuts shall be completed no more than three days prior to removal of the existing pavement. Saw cutting shall be included in all pavement patching regardless of class specified. Jointing shall be included in all PCC pavement patching.

**Basis of Payment.** This work will be paid for at the contract unit price per square yard for CLASS C PATCHES, of the thickness specified.

**PAY ITEM #39 – HOT-MIX ASPHALT DRIVEWAY PAVEMENT**

**Description.** This work shall consist of paving hot-mix asphalt driveway aprons, of the thickness specified, which composition will be of a binder course and surface course as shown in the Hot-Mix Asphalt Mixture Requirements table in the plans and according to Section 406 of the Standard Specifications, with the following modifications:

For an HMA driveway pavement thickness of less than 6", the aggregate base course, type b will be 6" thick. For an HMA driveway pavement thickness of 6" or more, the aggregate base course, type b will be 8" thick.

Excavation and disposal of materials required to construct the proposed driveway pavement with aggregate base course will be included in this work.

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

- (a) Contract Quantities. The requirements for the use of contract quantities shall conform to Article 202.07(a) in the Standard Specifications.
- (b) Measured Quantities. Hot-Mix Asphalt Driveway Pavement will be measured for payment in place and the quantity computed in square yards. The width of measurement shall be the width of the top HMA lift as shown on the plans or as directed by the Engineer.

Aggregate base course, excavation and disposal of materials will not be measured for payment but shall be considered as included in the cost of HOT-MIX ASPHALT DRIVEWAY PAVEMENT, of the thickness specified.

**Basis of Payment.** This work will be paid for at the contract unit price per square yard for HOT-MIX ASPHALT DRIVEWAY PAVEMENT, of the thickness specified.

**PAY ITEM #41 – DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED**

**Description.** This work shall consist of adjusting drainage and utility structures in accordance with

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Sections 602 and 603 of the Standard Specifications, with the following modifications:

Adjustment will be made with existing frames and grates or lids unless otherwise specified. New frames and grates or lids will be paid for separately according to the Special Provision "Frames, Grates and Lids" described herein.

All drainage and utility structures called off to be adjusted in the plans or as directed by the Engineer shall be reset even if there is no change in final rim elevation.

**Basis of Payment.** This work will be paid for at the contract unit price per each for DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED.

**PAY ITEM #42 – DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED**

**Description.** This work shall consist of reconstructing drainage and utility structures not paid for as adjusted in accordance with Sections 602 and 603 of the Standard Specifications, with the following modifications:

Reconstruction will be made with existing frames and grates or lids unless otherwise specified. New frames and grates or lids will be paid for separately according to the Special Provision "Frames, Grates and Lids" described herein.

Drainage and utility structures requiring reconstruction will also be cleaned by the Contractor. The drainage and utility structures shall be cleaned of silt, debris or other foreign matter of any kind and will be free from such accumulation at the time of final inspection.

**Method of Measurement.** The cleaning of drainage and utility structures, regardless of size, and the removal and disposal of accumulated debris will not be measured for payment separately but shall be considered as included in the cost of this item.

**Basis of Payment.** This work will be paid for at the contract unit price per each for DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED.

**PAY ITEM #43 – STORM SEWER (WATER MAIN REQUIREMENTS)**

**Description.** This work consists of constructing storm sewer of the specified diameter adjacent to or crossing water main, at the locations shown on the plans, meeting the material and installation requirements of the Water and Sewer Specifications, and the applicable portions of Section 550 of the Standard Specifications.

**Materials.** Pipe materials shall meet the requirements of Sections 40 and 41-2.01 of the Water and Sewer Specifications, allowing the use of only ductile iron pipe. Ductile iron pipe shall meet the minimum requirements for Thickness Class 52.

Encasing (with seals) of standard type storm sewer, in accordance with the details for "Water and Sewer Separation Requirements (Vertical Separation)", (DIV. V/STANDARD DRAWINGS) in the Water and Sewer Specifications, may be used for storm sewers crossing water mains with prior approval from the Engineer.

**Basis of Payment.** This work will be paid for in accordance with Article 550.10 of the Standard Specifications, except the pay item shall be STORM SEWER (WATER MAIN REQUIREMENTS), of the diameter specified.

**PAY ITEM #44 – SAWING P.C. CONCRETE PAVEMENT (FULL DEPTH)**

**Description.** This work shall consist of providing full-depth saw cuts to create a new edge-of-pavement in concrete pavements with monolithic curb. The saw cuts will be made as shown on the plans and as directed by the Engineer according to applicable portions of Section 442 of the Standard Specifications, with the following modifications:

The Contractor will only be paid once to satisfactorily complete the full-depth saw cuts according to the dimensions and lengths shown on the plans. Any additional work needed to create a new edge-of-pavement will not be paid for separately but shall be included in the cost of this item. Any damage done to areas outside of this work due to Contractor's negligence will be repaired or replaced in kind at Contractor's own expense.

**Method of Measurement.** Full-depth saw cuts will only be measured for payment in creating a new edge-of-pavement in concrete pavements with monolithic curb. Full-depth saw cuts will be measured for payment in place in feet. Saw cuts will not be measured for other removal operations, but shall be included in the item being removed.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for SAWING P.C. CONCRETE PAVEMENT (FULL DPETH).

**PAY ITEM #50 – TOPSOIL FURNISH AND PLACE, 4" (SPECIAL)**

**Description.** This work shall be performed in accordance with Section 211 of the Standard Specifications, with the following modifications:

The nominal depth of topsoil to be furnished and placed is 4". Variations in depth may exist throughout the project area which may require a larger or smaller depth of topsoil depending on the final grading conditions. Where applicable, the Contractor shall grade the disturbed parkway such that it positively drains towards the roadway.

Excavation and disposal of materials required to positively grade the landscaped areas will be included in this work.

**Method of Measurement.** Topsoil furnish and place, regardless of variations in depth, will be measured in square yards.

Excavation and disposal of materials will not be measured for payment but shall be considered as included in the cost of TOPSOIL FURNISH AND PLACE, 4" (SPECIAL).

**Basis of Payment.** This work will be paid for at the contract unit price per square yard for TOPSOIL FURNISH AND PLACE, 4" (SPECIAL).

**PAY ITEM #51 – EXPLORATION TRENCH, SPECIAL**

**Description.** This work shall consist of constructing a trench for the purpose of locating and inspecting an existing utility or utilities. This work shall be in accordance with Section 213 of the Standard Specifications, with the following modifications:

The exploration trench may be used to locate any existing utility or utilities, including, but not limited to, water mains, water services, sewer mains, sewer services, field tiles, gas lines, underground electric lines, underground telephone lines, underground cable TV lines, underground communication lines, underground fiber optic lines, and other utilities as applicable.

The exploration trench may be used to locate existing utilities regardless of whether the utilities are public or private; known or unknown; or marked or unmarked. The exploration trench may also be used to inspect the condition of existing utilities, determine the material type or dimensions of existing utilities, and to verify clearances between multiple utilities.

The exploration trench shall be constructed at the locations shown on the plans or as directed by the Engineer. The depth of the exploration trench shall vary as necessary, but shall be sufficient to locate the utility or utilities under investigation. The width of the trench shall be sufficient to allow proper investigation of the entire trench.

Upon completion of the exploration trench, the trench shall be backfilled. All exploration trenches where the inner edge of the trench is within 2 feet of an existing or proposed edge of pavement, driveway, curb, gutter, curb and gutter, stabilized shoulder, or sidewalk shall be backfilled with trench backfill in accordance with Section 208 of the Standard Specifications. Exploration trenches which do not require trench backfill shall be backfilled in accordance with Article 550.07 of the Standard Specifications. Backfilling of exploration trenches will not be measured for payment but shall be included in the cost of this work.

**Method of Measurement.** The exploration trench will be measured for payment in feet of actual trench constructed, regardless of the depth of the trench constructed. No additional measurement or compensation will be allowed for any delays or unforeseen circumstances arising from this work. The use of trench backfill where required as backfill material per Section 208 of the Standard Specifications will not be measured for payment.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for EXPLORATION TRENCH, SPECIAL.

**PAY ITEM #52 – SODDING, SPECIAL**

**Description.** This work shall be performed in accordance with Section 252 of the Standard Specifications, with the following modifications:

Nitrogen fertilizer and potassium fertilizer will be used as specified in Article 252.03 of the Standard Specifications. Phosphorus fertilizer will not be used due to its negative environmental impacts.

**Method of Measurement.** Fertilizer will not be measured for payment but shall be considered as included in the cost of SODDING, SPECIAL.

**Basis of Payment.** This work will be paid for at the contract unit price per square yard for SODDING,

SPECIAL.

**PAY ITEM #53 –TEMPORARY ACCESS (DRIVEWAY ENTRANCE)**

**Description.** This work shall consist of constructing and maintaining an aggregate surface course for temporary access to driveway entrances according to Article 402.07 and other applicable portions of Section 402 of the Standard Specifications, with the following modifications:

The aggregate surface course shall be constructed to the dimensions and grades specified below, except as modified by the plans or as directed by the Engineer. The Engineer will be the sole judge in determining the appropriate use of these items. The Contractor will need approval from the Engineer prior to the placement of any aggregate for temporary access described below.

- (a) Driveway Entrance. The minimum width shall be 12 feet. The minimum compacted thickness shall be 6 inches. The maximum grade shall be eight percent, except as required to match the existing grade.

Maintaining the temporary access shall include relocating and/or re-grading 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.

**Method of Measurement.** Aggregate surface course for temporary access will be measured for payment as each for every driveway entrance constructed for the purpose of temporary access. If a driveway entrance 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.

**Basis of Payment.** Aggregate surface course used for temporary access will be paid for at the contract unit price per each for TEMPORARY ACCESS (DRIVEWAY ENTRANCE).

Partial payment of the each amount bid for this item 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 this item 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 and disposal of the temporary access.
- (c) If the Contractor chooses to re-use the aggregate for temporary access in the permanent construction of the proposed items specified in the contract, the Contractor will forfeit partial payment of the remaining forty percent. Instead, the Contractor will be paid for the permanent construction work using the proposed pay items for the specified work.

**PAY ITEM #54 –TEMPORARY ACCESS (ROAD)**

**Description.** This work shall consist of constructing and maintaining an aggregate surface course for temporary access to roads according to Article 402.07 and other applicable portions of Section 402 of the Standard Specifications, with the following modifications:

The aggregate surface course shall be constructed to the dimensions and grades specified below, except as modified by the plans or as directed by the Engineer. The Engineer will be the sole judge in determining the appropriate use of these items. The Contractor will need approval from the Engineer prior to the placement of any aggregate for temporary access described below.

- (a) Road. The minimum width shall be 24 feet. The minimum compacted thickness shall be 9 inches. 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 re-grading 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.

**Method of Measurement.** Aggregate surface course for temporary access will be measured for payment as each for every road constructed for the purpose of temporary access. If a 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.

**Basis of Payment.** Aggregate surface course used for temporary access will be paid for at the contract unit price per each for TEMPORARY ACCESS (ROAD).

Partial payment of the each amount bid for this item 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 this item 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 and disposal of the temporary access.
- (c) If the Contractor chooses to re-use the aggregate for temporary access in the permanent construction of the proposed items specified in the contract, the Contractor will forfeit partial payment of the remaining forty percent. Instead, the Contractor will be paid for the permanent construction work using the proposed pay items for the specified work.

**PAY ITEM #55 – PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT**

**Description.** This work shall consist of constructing portland cement concrete (PCC) driveway pavement, of the thickness specified, on a prepared aggregate base as shown in the plans or as directed by the Engineer according to Sections 351 and 423 of the Standard Specifications, with the

following modifications:

For a PCC driveway pavement thickness of less than 8", the aggregate base course, type b will be 4" thick. For a PCC driveway pavement thickness of 8" or more, the aggregate base course, type b will be 6" thick.

Excavation and disposal of materials required to construct the proposed driveway pavement with aggregate base course will be included in this work.

**Method of Measurement.** Aggregate base course, excavation and disposal of materials will not be measured for payment but shall be considered as included in the cost of PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, of the thickness specified, SPECIAL.

**Basis of Payment.** This work will be paid for at the contract unit price per square yard for PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, of the thickness specified, SPECIAL.

#### **PAY ITEM #56 – PORTLAND CEMENT CONCRETE SIDEWALK**

**Description.** This work shall consist of constructing portland cement concrete (PCC) sidewalk, of the thickness specified, on a prepared aggregate base as shown in the plans or as directed by the Engineer according to Sections 351 and 424 of the Standard Specifications, with the following modifications:

All constructed sidewalk shall comply with the slope and grade tolerances specified in the construction details shown in the plans and according to the latest edition of the Public Right-of-Way Accessibility Guidelines (PROWAG). The extent of sidewalk replacement shown in the plans at roadway intersections is approximate. The final limits of sidewalk replacement will be determined by the Engineer in the field in order to comply with the slopes and grades dictated by PROWAG. This work shall include re-grading, excavation and disposal of materials as directed by the Engineer to conform to these accessibility guidelines.

For a PCC sidewalk thickness of less than 8", the aggregate base course, type b will be 4" thick. For a PCC sidewalk thickness of 8" or more, the aggregate base course, type b will be 6" thick.

When constructing PCC sidewalk through a residential driveway entrance, the thickness of the PCC sidewalk shall be 6" regardless of the actual thickness called off by the plan pay item.

Excavation and disposal of materials required to construct the proposed sidewalk with aggregate base course will be included in this work.

**Method of Measurement.** Aggregate base course, excavation and disposal of materials will not be measured for payment but shall be considered as included in the cost of PORTLAND CEMENT CONCRETE SIDEWALK, of the thickness specified, SPECIAL. The increase in sidewalk thickness to 6" through a residential driveway entrance will not be measured for payment but shall be considered as included in the cost of PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL.

**Basis of Payment.** This work will be paid for at the contract unit price per square foot for PORTLAND CEMENT CONCRETE SIDEWALK, of the thickness specified, SPECIAL.

**PAY ITEM #57 – PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)**

**Description.** This work shall consist of the removal of portland cement concrete (PCC) surfaces in preparation for subsequent hot-mix asphalt (HMA) resurfacing as shown in the plans or as directed by the Engineer according to Section 440 of the Standard Specifications, with the following modifications:

The nominal removal depth shall be an edge grind varying between 2.5 inches and 0 inches. Additional variations in grinding may occur depending on field conditions. No additional compensation will be provided for these varying conditions.

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

- (a) Contract Quantities. The requirements for the use of contract quantities shall conform to Article 202.07(a) in the Standard Specifications.
- (b) Measured Quantities. PCC surface removal will be measured for payment in place and the area computed in square yards. The square yards measured will be paid for only once, regardless of the number of passes required to remove the material. The width shall be as shown on the plans or as directed by the Engineer.

Removal of PCC surface outside the designated limits as shown on the plans or as directed by the Engineer will not be measured for payment. Areas damaged outside these limits will be repaired at Contractor's own expense.

**Basis of Payment.** This work will be paid for at the contract unit price per square yard for PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH).

**PAY ITEM #58 – VALVE BOXES TO BE ADJUSTED (SPECIAL)**

**Description.** This work shall consist of adjusting valve boxes to the finished grade as shown in the plans or as directed by the Engineer according to Section 602 of the Standard Specifications, with the following modifications:

If the Contractor is unable to adjust the valve box to the final grade, the Contractor shall remove the existing valve box and install a new valve box similar in material and size. The Contractor will make sure the new valve box will be able to fit over the existing water valve and have the ability to adjust to the final grade.

The Engineer will review the condition of the old valve box to determine if it should be returned to the Village or disposed of by the Contractor. If the Engineer deems it salvageable, the Contractor shall deliver the old valve box to the Public Works Department Yard at 51 South Ardmore Avenue. Otherwise, the Contractor shall appropriately dispose of the valve box.

**Method of Measurement.** This work will be measured for payment in units of each valve box adjusted. If the valve box is unable to be adjusted, the occurrence of removing the old valve box and installing a new valve box will collectively be measured for payment in units of each occurrence. The delivery of old valve box to the Public Works Department Yard or disposal of old valve box will not be measured for payment but shall be considered as included in the cost of this item.

**Basis of Payment.** This work will be paid for at the contract unit price per each for VALVE BOXES

TO BE ADJUSTED (SPECIAL).

**PAY ITEM #59 – COMBINATION CONCRETE CURB AND GUTTER**

**Description.** This work shall consist of constructing combination concrete curb and gutter on a prepared aggregate base as shown on the plans or as directed by the Engineer. This work shall be done in accordance with Sections 351 and 606 of the Standard Specifications, Standard No. 606001 and the construction details shown in the plans, with the following modifications:

Combination concrete curb and gutter shall be constructed on 4" (minimum) of aggregate base course, type b. Only forms made of wood shall be used. Forms constructed of steel or Masonite will not be permitted. Forms for radius sections of the combination concrete curb and gutter shall be constructed on 1-inch thick wood boards.

Depressed curb for alleys, driveway openings, sidewalk ramps accessible to the disabled, and any other designated areas shall be constructed at the locations shown on the plans or as directed by the Engineer. There may be certain areas of curb and gutter that have depressed curbs in locations that do not warrant such depressions. The Engineer may decide in the field to replace these locations to a barrier curb and gutter. The transition from full height curb to depressed curb shall be made over a distance equal to at least four times the difference in height between the full height curb and the depressed curb. Any variations in curb height, gutter width, or other modifications to meet or alter existing conditions will be included in the cost of this item.

When combination concrete curb and gutter is constructed across sidewalk curb ramps, the depressed curb height and gutter slope shall be in accordance with the Public Right-of-Way Accessibility Guidelines (PROWAG).

Combination concrete curb and gutter at the alley returns is to be constructed adjacent to the longitudinal edge of the rectangular driveway alley pavement out to the specified radius of the back-of-curb shown in the grading details of the plans. The resulting shape will constitute the entire combination concrete curb and gutter and will be measured for payment as described below.

Where combination concrete curb and gutter is to be constructed adjacent to existing pavement that is not being reconstructed, the Contractor will be required to saw cut 6 inches off the edge-of-pavement. The void between the existing pavement and the proposed combination concrete curb and gutter shall be filled in with a concrete wedge with a minimum width of 6 inches and a minimum thickness of 8 inches. The concrete wedge shall be placed after the combination concrete curb and gutter has been placed and the forms have been removed. The top of concrete wedge will be located 2" below the proposed gutter for subsequent HMA surface course.

Concrete curing methods shall be limited to the methods specified in Article 1020.13 (a) (1), (2), and (3) of the Standard Specifications. Expansion joints shall be constructed at 60 ft. maximum centers. Expansion joints shall also be constructed at all construction joints, all points of curvature, all points of tangency, within 5' on either side of all curb structure castings, and at additional locations as directed by the Engineer. Expansion joints shall consist of a 1 in. thick preformed bituminous expansion joint filler that extends the full cross section of the combination concrete curb and gutter. Expansion joint filler material that is larger than the cross section of the combination concrete curb and gutter shall be cut to the exact cross section of the combination concrete curb and gutter. Expansion joints shall have two 18 in. long, No. 6 non-deformed epoxy-coated steel dowel bars placed at mid-depth. The dowel bars shall have a greased plastic expansion cap placed on one end of each dowel bar a

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minimum of 1 in. from the end of the dowel bar.

Where proposed combination concrete curb and gutter is to be constructed abutting existing combination concrete curb and gutter, the dowel bars shall be drilled into the existing combination concrete curb and gutter. This work will not be paid for separately but shall be included in the cost of this item.

Contraction joints shall be constructed at 15 ft. maximum centers. Where the location of a contraction joint coincides with the location of an expansion joint, the contraction joint may be omitted at the discretion of the Engineer. Contraction joints shall be tooled and sawed. Sawing of contraction joints shall commence as soon as the concrete has hardened sufficiently to permit sawing without excessive raveling, but in no case shall sawing commence less than 4 hours or more than 24 hours after the concrete is placed. Sawing of contraction joints shall be to a depth equal to 1/3 the thickness of the gutter flag and to a width of not less than 1/8 in. Contraction joints shall be sealed according to Article 420.12, except that joints shall be sealed with polysulfide or polyurethane joint sealant.

If Contractor fails to construct joints in accordance with the requirements of this provision and the curb cracks, the Contractor shall remove and replace the affected section of combination concrete curb and gutter extending the full length between the two adjacent joints on either side of the crack. This work will not be paid for separately but shall be at the Contractor's own expense.

Upon removal of the forms from the back of the combination concrete curb and gutter, excavated areas behind the combination concrete curb and gutter shall be immediately backfilled. Areas where pavement or sidewalks are to be constructed shall be backfilled with crushed aggregate of CA-6 or CA-7 gradation and mechanically compacted. Areas where topsoil and sodding are to be placed shall be backfilled with non-organic material acceptable to the Engineer. This work will not be paid for separately but shall be included in the cost of this item.

**Method of Measurement.** Aggregate base course will not be measured for payment but shall be considered as included in the cost of this item. Excavation and disposal of materials required in the performance of the work will not be measured for payment but shall be considered as included in the cost of this item.

The combination concrete curb and gutter at the alley returns will be measured for payment along the longitudinal edge of the driveway alley pavement regardless of the amount of concrete needed to complete the radii of the back-of-curbs.

For areas not being reconstructed, saw cutting 6" off the edge-of-pavement, removing the existing wedge, and filling in the void with a concrete wedge will be measured for payment according to the Special Provision "Concrete Wedge" as described herein.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for CONBINATION CONCRETE CURB AND GUTTER, of the type specified, (SPECIAL).

Work consisting of removing and installing a concrete wedge adjacent to combination concrete curb and gutter will be paid for separately according to the Special Provision "Concrete Wedge" as described herein.

**PAY ITEM #60 – CONCRETE WEDGE**

**Description.** This work shall consist of constructing a concrete wedge adjacent to combination concrete curb and gutter in areas where the roadway is not being reconstructed or patched with Class C or D pavement patches. This work will be done according to Section 353 of the Standard Specifications, with the following modifications:

Where combination concrete curb and gutter is to be constructed adjacent to existing pavement that is not being reconstructed or patched, the Contractor will be required to saw cut 6 inches off the edge-of-pavement. The saw cut and removal of existing 6" wedge will be included in the cost of this item.

The void between the existing pavement and the proposed combination concrete curb and gutter shall be filled in with a concrete wedge with a minimum width of 6 inches and a minimum thickness of 8 inches. The concrete wedge shall be constructed on 4" (minimum) of aggregate base course, type b. The concrete wedge shall be placed after the combination concrete curb and gutter has been placed and the forms have been removed. The top of concrete wedge will be located 2" below the proposed gutter for subsequent HMA surface course.

**Method of Measurement.** Aggregate base course will not be measured for payment but shall be considered as included in the cost of this item. Excavation and disposal of materials required in the performance of the work will not be measured for payment but shall be considered as included in the cost of this item.

The concrete wedge will be measured for payment in feet along the gutter's edge where the wedge has been placed.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for CONCRETE WEDGE.

**PAY ITEM #61 – TRAFFIC CONTROL AND PROTECTION, (SPECIAL)**

**Description.** This work shall include furnishing, installing, maintaining, replacing, relocating and removing all traffic control devices used for the purpose of regulating, warning or directing traffic during construction or maintenance of this improvement. Traffic Control and Protection shall be provided as called for in the Plans, these Special Provisions, applicable Highway Standards, and applicable sections of the Standard Specifications.

All traffic control devices used on this project shall conform to the Plans, Special Provisions, Traffic Control Standards, Traffic Specifications and the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD). Traffic Control Devices include signs and their supports, signals, pavement markings, barricades with sand bags, channelizing devices, warning lights, arrowboards, flaggers, or any other device used for the purpose of regulating, detouring, warning or guiding traffic through or around the construction zone.

The Contractor is required to conduct routine inspections of the worksite at a frequency that will allow for the prompt replacement of any traffic control device that has become displaced, worn or damaged to the extent that it no longer conforms to the shape, dimensions, color and operational requirements of the MUTCD, the Traffic Control Standards or will no longer present a neat appearance to motorists. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement.

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The Contractor shall be responsible for the proper location, installation and arrangement of all traffic control devices. Special attention shall be given to advance warning signs during construction operations in order to keep lane assignment consistent with barricade placement at all times. The Contractor shall immediately remove, cover or turn from the view of the motorists all traffic control devices which are inconsistent with detour or lane assignment patterns and conflicting conditions during the transition from one construction stage to another. When the Contractor elects to cover conflicting or inappropriate signing materials used shall totally block out reflectivity of the sign and shall cover the entire sign. The method used for covering the signing shall meet with the approval of the Engineer.

When directed by the Engineer, the Contractor shall remove all traffic control devices which were furnished, installed and maintained by him under this contract, and such devices shall remain the property of the Contractor. All traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer.

The Contractor shall ensure that all traffic control devices installed by him are operational, functional and effective 24 hours a day, including Sundays and holidays.

**Signs.** All signs except those referring to daily lane closures shall be post mounted in accordance with Standard 720001 for all projects that exceed four days.

Construction signs referring to daytime lane closures during working hours shall be removed, covered or turned away from the view of the motorists during non-working hours.

"Fresh Oil" signs (W21-2) shall be used when prime is applied to pavement that is open to traffic. The signs are to remain until tracking of the prime ceases. The sign shall be erected a minimum of 500 feet preceding the start of prime on all side roads within the posted area. The "Fresh Oil" sign on the side road shall be posted a minimum of 200 feet from the mainline pavement.

"Rough Grooved Surface" signs (W8-1107) shall be used when the road has been cold milled and open to traffic. The signs shall remain in place until the milled surface condition no longer exists. These signs shall be erected a minimum of 500 feet preceding the start of the milled pavement and on all side roads within the posted area. The "Rough Grooved Surface" signs on the side roads shall be posted 200 feet from the mainline pavement. All signs shall have an 18" x 18" orange flag and an amber flashing light attached.

**Placement and Removal of Signs and Barricades.** Placement of all signs and barricades shall proceed in the direction of flow of traffic. Removal of all signs and barricades shall start at the end of the construction areas and proceed toward oncoming traffic unless otherwise directed by the Engineer.

**Public Safety and Convenience.** The Contractor shall provide the Engineer a telephone number where a responsible individual can be contacted on a 24-hour-a-day basis to receive notification of any deficiencies regarding traffic control and protection. The Contractor shall dispatch men, materials and equipment to correct any such deficiencies. The Contractor shall respond to any call from the Engineer concerning any request for improving or correcting traffic control devices and begin making the requested repairs within two hours from the time of notification.

When traveling in lanes open to public traffic, the Contractor's vehicle shall always move with and not against or across the flow of traffic. These vehicles shall enter or leave work areas in a manner which

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will not be hazardous to, or interfere with, traffic and shall not park or stop except within designated work areas. Personal vehicles shall not park within the right of way except in specific areas designated by the Engineer.

Contractor shall contact the Village at least 72 hours in advance of beginning work. Construction operations shall be conducted in a manner such that streets shall be open to emergency traffic and accessible as required to local traffic. Advanced notice shall be provided to residents, police, fire, school districts, school bus companies, and trash haulers when access to any street will be temporarily closed or limited. Removal and replacement of curb and gutter and driveways shall be planned so as to cause a minimum of inconvenience to the abutting property owners. The work shall be accomplished such that the streets shall be left open to local traffic at the end of each workday.

The Contractor shall be responsible for furnishing and implementing all traffic control for any road closures or detour routes which are permitted.

The Contractor shall be responsible for maintaining safe access to the construction site for school buses. The Contractor shall also be responsible for ensuring that any detour routes which are permitted are accessible to school buses.

The Contractor shall be responsible for maintaining access to the construction site for trash haulers. If trash haulers are unable to access the construction site, the Contractor shall relocate trash, recycling and other waste containers to a location accessible by the trash hauler, and shall return containers to their original location following pickup by the trash hauler.

**Method of Measurement.** This work will be measured for payment on a lump sum basis. No measurement will be made of any of the individual components of this work.

**Basis of Payment.** This work will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, (SPECIAL), which price shall include all of the above listed requirements, details, standards, and special provisions.

Delays to the Contractor caused by complying with these requirements will be considered as included in the cost of this item, and additional compensation will not be allowed.

The bid price for TRAFFIC CONTROL AND PROTECTION, (SPECIAL) shall not exceed 5 percent of the total bid price. If the bid price for TRAFFIC CONTROL AND PROTECTION (SPECIAL) exceeds 5 percent of the total bid price, the Village may reject the Bid.

**PAY ITEM #62 – PRECONSTRUCTION VIDEO TAPING**

**Description.** This work consists of performing color video and audio recording of the project area and other areas which may be impacted by construction.

Preconstruction video recordings will include coverage of the project area and all other areas which may be impacted by construction. Video recordings will also include construction easements when applicable. Video recordings will provide a visual record of all physical features within those areas, including, but not limited to, roadways, pavements, curbs, gutters, driveways, driveway aprons, sidewalks, carriage walks, parkways, trees, landscaping, shrubbery, plantings, landscaping walls, retaining walls, fences, utility poles, light poles, utilities, manholes, b-boxes, cleanouts, valves, curb structures, pipelines, buildings, mailboxes, and any other features located within the project area.

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minimum of 1 in. from the end of the dowel bar.

Where proposed combination concrete curb and gutter is to be constructed abutting existing combination concrete curb and gutter, the dowel bars shall be drilled into the existing combination concrete curb and gutter. This work will not be paid for separately but shall be included in the cost of this item.

Contraction joints shall be constructed at 15 ft. maximum centers. Where the location of a contraction joint coincides with the location of an expansion joint, the contraction joint may be omitted at the discretion of the Engineer. Contraction joints shall be tooled and sawed. Sawing of contraction joints shall commence as soon as the concrete has hardened sufficiently to permit sawing without excessive raveling, but in no case shall sawing commence less than 4 hours or more than 24 hours after the concrete is placed. Sawing of contraction joints shall be to a depth equal to 1/3 the thickness of the gutter flag and to a width of not less than 1/8 in. Contraction joints shall be sealed according to Article 420.12, except that joints shall be sealed with polysulfide or polyurethane joint sealant.

If Contractor fails to construct joints in accordance with the requirements of this provision and the curb cracks, the Contractor shall remove and replace the affected section of combination concrete curb and gutter extending the full length between the two adjacent joints on either side of the crack. This work will not be paid for separately but shall be at the Contractor's own expense.

Upon removal of the forms from the back of the combination concrete curb and gutter, excavated areas behind the combination concrete curb and gutter shall be immediately backfilled. Areas where pavement or sidewalks are to be constructed shall be backfilled with crushed aggregate of CA-6 or CA-7 gradation and mechanically compacted. Areas where topsoil and sodding are to be placed shall be backfilled with non-organic material acceptable to the Engineer. This work will not be paid for separately but shall be included in the cost of this item.

**Method of Measurement.** Aggregate base course will not be measured for payment but shall be considered as included in the cost of this item. Excavation and disposal of materials required in the performance of the work will not be measured for payment but shall be considered as included in the cost of this item.

The combination concrete curb and gutter at the alley returns will be measured for payment along the longitudinal edge of the driveway alley pavement regardless of the amount of concrete needed to complete the radii of the back-of-curbs.

For areas not being reconstructed, saw cutting 6" off the edge-of-pavement, removing the existing wedge, and filling in the void with a concrete wedge will be measured for payment according to the Special Provision "Concrete Wedge" as described herein.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for COMBINATION CONCRETE CURB AND GUTTER, of the type specified, (SPECIAL).

Work consisting of removing and installing a concrete wedge adjacent to combination concrete curb and gutter will be paid for separately according to the Special Provision "Concrete Wedge" as described herein.

**PAY ITEM #60 – CONCRETE WEDGE**

**Description.** This work shall consist of constructing a concrete wedge adjacent to combination concrete curb and gutter in areas where the roadway is not being reconstructed or patched with Class C or D pavement patches. This work will be done according to Section 353 of the Standard Specifications, with the following modifications:

Where combination concrete curb and gutter is to be constructed adjacent to existing pavement that is not being reconstructed or patched, the Contractor will be required to saw cut 6 inches off the edge-of-pavement. The saw cut and removal of existing 6" wedge will be included in the cost of this item.

The void between the existing pavement and the proposed combination concrete curb and gutter shall be filled in with a concrete wedge with a minimum width of 6 inches and a minimum thickness of 8 inches. The concrete wedge shall be constructed on 4" (minimum) of aggregate base course, type b. The concrete wedge shall be placed after the combination concrete curb and gutter has been placed and the forms have been removed. The top of concrete wedge will be located 2" below the proposed gutter for subsequent HMA surface course.

**Method of Measurement.** Aggregate base course will not be measured for payment but shall be considered as included in the cost of this item. Excavation and disposal of materials required in the performance of the work will not be measured for payment but shall be considered as included in the cost of this item.

The concrete wedge will be measured for payment in feet along the gutter's edge where the wedge has been placed.

**Basis of Payment.** This work will be paid for at the contract unit price per foot for CONCRETE WEDGE.

**PAY ITEM #61 – TRAFFIC CONTROL AND PROTECTION, (SPECIAL)**

**Description.** This work shall include furnishing, installing, maintaining, replacing, relocating and removing all traffic control devices used for the purpose of regulating, warning or directing traffic during construction or maintenance of this improvement. Traffic Control and Protection shall be provided as called for in the Plans, these Special Provisions, applicable Highway Standards, and applicable sections of the Standard Specifications.

All traffic control devices used on this project shall conform to the Plans, Special Provisions, Traffic Control Standards, Traffic Specifications and the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD). Traffic Control Devices include signs and their supports, signals, pavement markings, barricades with sand bags, channelizing devices, warning lights, arrowboards, flaggers, or any other device used for the purpose of regulating, detouring, warning or guiding traffic through or around the construction zone.

The Contractor is required to conduct routine inspections of the worksite at a frequency that will allow for the prompt replacement of any traffic control device that has become displaced, worn or damaged to the extent that it no longer conforms to the shape, dimensions, color and operational requirements of the MUTCD, the Traffic Control Standards or will no longer present a neat appearance to motorists. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement.

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The Contractor shall be responsible for the proper location, installation and arrangement of all traffic control devices. Special attention shall be given to advance warning signs during construction operations in order to keep lane assignment consistent with barricade placement at all times. The Contractor shall immediately remove, cover or turn from the view of the motorists all traffic control devices which are inconsistent with detour or lane assignment patterns and conflicting conditions during the transition from one construction stage to another. When the Contractor elects to cover conflicting or inappropriate signing materials used shall totally block out reflectivity of the sign and shall cover the entire sign. The method used for covering the signing shall meet with the approval of the Engineer.

When directed by the Engineer, the Contractor shall remove all traffic control devices which were furnished, installed and maintained by him under this contract, and such devices shall remain the property of the Contractor. All traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer.

The Contractor shall ensure that all traffic control devices installed by him are operational, functional and effective 24 hours a day, including Sundays and holidays.

**Signs.** All signs except those referring to daily lane closures shall be post mounted in accordance with Standard 720001 for all projects that exceed four days.

Construction signs referring to daytime lane closures during working hours shall be removed, covered or turned away from the view of the motorists during non-working hours.

"Fresh Oil" signs (W21-2) shall be used when prime is applied to pavement that is open to traffic. The signs are to remain until tracking of the prime ceases. The sign shall be erected a minimum of 500 feet preceding the start of prime on all side roads within the posted area. The "Fresh Oil" sign on the side road shall be posted a minimum of 200 feet from the mainline pavement.

"Rough Grooved Surface" signs (W8-1107) shall be used when the road has been cold milled and open to traffic. The signs shall remain in place until the milled surface condition no longer exists. These signs shall be erected a minimum of 500 feet preceding the start of the milled pavement and on all side roads within the posted area. The "Rough Grooved Surface" signs on the side roads shall be posted 200 feet from the mainline pavement. All signs shall have an 18" x 18" orange flag and an amber flashing light attached.

**Placement and Removal of Signs and Barricades.** Placement of all signs and barricades shall proceed in the direction of flow of traffic. Removal of all signs and barricades shall start at the end of the construction areas and proceed toward oncoming traffic unless otherwise directed by the Engineer.

**Public Safety and Convenience.** The Contractor shall provide the Engineer a telephone number where a responsible individual can be contacted on a 24-hour-a-day basis to receive notification of any deficiencies regarding traffic control and protection. The Contractor shall dispatch men, materials and equipment to correct any such deficiencies. The Contractor shall respond to any call from the Engineer concerning any request for improving or correcting traffic control devices and begin making the requested repairs within two hours from the time of notification.

When traveling in lanes open to public traffic, the Contractor's vehicle shall always move with and not against or across the flow of traffic. These vehicles shall enter or leave work areas in a manner which

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will not be hazardous to, or interfere with, traffic and shall not park or stop except within designated work areas. Personal vehicles shall not park within the right of way except in specific areas designated by the Engineer.

Contractor shall contact the Village at least 72 hours in advance of beginning work. Construction operations shall be conducted in a manner such that streets shall be open to emergency traffic and accessible as required to local traffic. Advanced notice shall be provided to residents, police, fire, school districts, school bus companies, and trash haulers when access to any street will be temporarily closed or limited. Removal and replacement of curb and gutter and driveways shall be planned so as to cause a minimum of inconvenience to the abutting property owners. The work shall be accomplished such that the streets shall be left open to local traffic at the end of each workday.

The Contractor shall be responsible for furnishing and implementing all traffic control for any road closures or detour routes which are permitted.

The Contractor shall be responsible for maintaining safe access to the construction site for school buses. The Contractor shall also be responsible for ensuring that any detour routes which are permitted are accessible to school buses.

The Contractor shall be responsible for maintaining access to the construction site for trash haulers. If trash haulers are unable to access the construction site, the Contractor shall relocate trash, recycling and other waste containers to a location accessible by the trash hauler, and shall return containers to their original location following pickup by the trash hauler.

**Method of Measurement.** This work will be measured for payment on a lump sum basis. No measurement will be made of any of the individual components of this work.

**Basis of Payment.** This work will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, (SPECIAL), which price shall include all of the above listed requirements, details, standards, and special provisions.

Delays to the Contractor caused by complying with these requirements will be considered as included in the cost of this item, and additional compensation will not be allowed.

The bid price for TRAFFIC CONTROL AND PROTECTION, (SPECIAL) shall not exceed 5 percent of the total bid price. If the bid price for TRAFFIC CONTROL AND PROTECTION (SPECIAL) exceeds 5 percent of the total bid price, the Village may reject the Bid.

**PAY ITEM #62 – PRECONSTRUCTION VIDEO TAPING**

**Description.** This work consists of performing color video and audio recording of the project area and other areas which may be impacted by construction.

Preconstruction video recordings will include coverage of the project area and all other areas which may be impacted by construction. Video recordings will also include construction easements when applicable. Video recordings will provide a visual record of all physical features within those areas, including, but not limited to, roadways, pavements, curbs, gutters, driveways, driveway aprons, sidewalks, carriage walks, parkways, trees, landscaping, shrubbery, plantings, landscaping walls, retaining walls, fences, utility poles, light poles, utilities, manholes, b-boxes, cleanouts, valves, curb structures, pipelines, buildings, mailboxes, and any other features located within the project area.

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Video recordings will begin with an audio narrative which provides the current date and time, the name of Owner and name of project, and a description of both the starting location and the location or locations to be recorded, including street name or names, street addresses, and any additional information which may be necessary to describe the location and subject of viewing.

Video recordings will maintain viewer orientation by means of an audio commentary in the audio track of each video recording which provides an explanation of what is being viewed; and by videotaping landmarks and readily identifiable objects (property addresses, street signs, etc.) at appropriate intervals.

Preconstruction video recordings will be recorded at a rate of travel not exceeding 48 feet per minute, and zooming and panning rates will be controlled to provide clarity of features during playback. The finished product will be provided with bright, clear pictures and accurate colors free from distortion, tearing, rolls, or other forms of picture imperfection. The audio will have proper volume and clarity. All recordings will be performed at times of satisfactory visibility, and when no more than ten percent of ground is obscured by snow, leaves, or other cover.

If any element within or portion of the project area is not adequately documented by the preconstruction video recording so as to definitively demonstrate its condition prior to the start of construction, Contractor will assume responsibility for the repair, restoration or replacement of that element or portion of the project area. Such repair, restoration or replacement will be to equal or better condition than previously existing, and will further comply with all standards and provisions which govern the work in question.

**Schedule.** Preconstruction video recording will be performed according to the following schedule:

- (a) Preconstruction video recording will take place after a Notice to Proceed has been issued.
- (b) Preconstruction video recording will take place after the Joint Utility Locating Information for Excavators (JULIE) request for the project area has cleared.
- (c) Preconstruction video recording will take place before any equipment, materials, or other items are delivered to the site.
- (d) Preconstruction video recording will take place no more than seven (7) chargeable days prior to the start of construction.
- (e) Preconstruction video recording will take place, the required pre-construction video recording deliverables will be submitted to the Engineer, and the Engineer will review and issue written approval of the video before any activity other than utility locating will be permitted to start. Such activity will include, but not be limited to, delivery of materials and equipment, installation of traffic control and erosion control, and completion of construction layout and tree protection. No days will be charged against the contract time while the video is under review by the Engineer, including the day the deliverables are submitted and the day a response is provided. If the video or any portions thereof are rejected, the contract time will commence to run until revisions are submitted.
- (f) The recording will be submitted to 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 will be re-filmed at no additional cost to the

contract. The final recording shall be transferred onto DVD and both the DVD and video recording shall be presented in a manner acceptable to the Owner.

**Deliverables.** Video will be high-definition, with a minimum resolution of 1280 x 720 pixels per frame. Video will be filmed in a landscape aspect ratio. Video filmed in a portrait aspect ratio will be considered unacceptable and will be rejected.

Preconstruction video recordings will be provided as electronic files of .avi, .mp4, .m4v, .mkv, .wmv, or .mpg file format, or of such other file format as may be approved by Engineer. Preconstruction video recordings will be provided as independent digital container format files, which container files will include all video, audio, and other electronic information necessary to view the preconstruction video recording as intended.

Video DVD will be considered an unacceptable format for providing preconstruction video recordings, and will be rejected.

Preconstruction video recording electronic files will be provided on a portable electronic media device or devices of one of the following types: USB flash drive, SD flash memory card, CF flash memory card, data DVD, external hard drive, or such other portable electronic media device as may be approved by Engineer. Preconstruction video recording electronic files may also be provided via online file sharing, cloud storage, File Transfer Protocol (FTP), or other online or network file transfer methods if approved by Engineer.

Preconstruction video recording electronic files will be accompanied by corresponding logs which document the dates, times, and locations covered by each preconstruction video recording electronic file.

Contractor shall maintain copies of all items submitted to Engineer for Contractor's own use and record.

**Method of Measurement.** This work will be measured for payment on a lump sum basis. No measurement will be made of the individual components of this effort.

**Basis of Payment.** Preconstruction video recording will be paid for at the contract lump sum price for PRECONSTRUCTION VIDEO TAPING.

## **PAY ITEM #63 – REMOVE AND REINSTALL LANDSCAPING ITEM**

**Description.** This work shall consist of the removal and reinstallation of existing landscaping items in order to install the proposed curb and gutter, driveway, sidewalk, or trench for underground utilities, at locations shown on the plans or as directed by the Engineer. Landscaping items are defined, but not limited to, as any feature used in landscaping such as retaining blocks or bricks, wooden planters, or decorative fencing that is not permanently supported by a concrete foundation.

The Contractor shall record the locations, shapes, colors, and sizes of the landscaping items prior to removal. The Contractor shall remove and store the existing landscaping items or give the option to the property owner to store their landscaping items prior to beginning excavation. Any landscaping items damaged by the Contractor shall be replaced by the Contractor at Contractor's own expense.

The landscaping items shall be reinstalled during the final landscaping phase of the project. The

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landscaping items shall be installed as shown on the plans or as directed by the Engineer. If additional landscaping items are required, they shall meet the requirements described above, and shall be included in the cost of REMOVE AND REINSTALL LANDSCAPING ITEM.

If there are landscaping items remaining after completion of the work, the surplus items shall be offered to the homeowner. If the homeowner does not want the surplus items, the Contractor shall dispose of them properly off-site.

**PAY ITEM #64 – WATER USAGE DEDUCTION**

**Description.** Pay items are provided as a part of this contract for the purpose of documenting the quantity of water obtained from the Village by the Contractor.

If the Contractor elects to obtain water from the Village, the Contractor shall comply with the Special Provision USE OF FIRE HYDRANTS. The quantity of water obtained from the Village by the Contractor shall be deducted from the contract as WATER USAGE DEDUCTION, and shall be credited to the contract as WATER USAGE CREDIT.

The WATER USAGE DEDUCTION pay item for this contract has been established with a unit of measurement in thousands of gallons (TGAL), a quantity of one-hundred (100.00), and a contract unit price of a deduction of eight dollars and eighty-five cents (\$8.85), for a total WATER USAGE DEDUCTION contract price of a deduction of eight-hundred eighty-five dollars and no cents (\$885.00). Bidder, in submitting a bid, accepts the quantity, contract unit price, and total contract price of the WATER USAGE DEDUCTION pay item.

**Method of Measurement.** Water usage will be measured as the actual quantity of water obtained from the Village by the Contractor, which quantity shall be rounded up to the nearest 1,000 gallons.

**Basis of Payment.** The water usage deduction will be deducted at the contract unit price per thousand gallons (TGAL) for WATER USAGE DEDUCTION. The quantity deducted as WATER USAGE DEDUCTION will be equal to the quantity paid for as WATER USAGE CREDIT.

**PAY ITEM #65 – WATER USAGE CREDIT**

**Description.** Pay items are provided as a part of this contract for the purpose of documenting the quantity of water obtained from the Village by the Contractor.

If the Contractor elects to obtain water from the Village, the Contractor shall comply with the Special Provision USE OF FIRE HYDRANTS. The quantity of water obtained from the Village by the Contractor shall be deducted from the contract as WATER USAGE DEDUCTION, and shall be credited to the contract as WATER USAGE CREDIT.

The WATER USAGE CREDIT pay item for this contract has been established with a unit of measurement in thousands of gallons (TGAL), a quantity of one-hundred (100.00), and a contract unit price of eight dollars and eighty-five cents (\$8.85), for a total WATER USAGE CREDIT contract price of eight-hundred eighty-five dollars and no cents (\$885.00). Bidder, in submitting a bid, accepts the quantity, contract unit price, and total contract price of the WATER USAGE CREDIT pay item.

**Method of Measurement.** Water usage will be measured as the actual quantity of water obtained



INDEX  
FOR  
SUPPLEMENTAL SPECIFICATIONS  
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2020

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

ERRATA Standard Specifications for Road and Bridge Construction  
(Adopted 4-1-16) (Revised 1-1-20)

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The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

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23	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	138
24	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	139
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The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

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**BDE SPECIAL PROVISIONS**  
For the April 24, 2020 and June 12, 2020 Lettings

The following special provisions indicated by a "check mark" are applicable to this contract and will be included by the Project Coordination and Implementation Section of the BD&E. An \* indicates a new or revised special provision for the letting.

File Name	#		Special Provision Title	Effective	Revised
*	80099	1	<input type="checkbox"/> Accessible Pedestrian Signals (APS)	April 1, 2003	April 1, 2020
	80274	2	<input type="checkbox"/> Aggregate Subgrade Improvement	April 1, 2012	April 1, 2016
	80192	3	<input type="checkbox"/> Automated Flagger Assistance Device	Jan. 1, 2008	
	80173	4	<input type="checkbox"/> Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
	80426	5	<input type="checkbox"/> Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	
	80241	6	<input type="checkbox"/> Bridge Demolition Debris	July 1, 2009	
	5026I	7	<input type="checkbox"/> Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5048I	8	<input type="checkbox"/> Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5049I	9	<input type="checkbox"/> Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
	5053I	10	<input type="checkbox"/> Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
	80425	11	<input type="checkbox"/> Cape Seal	Jan. 1, 2020	
	80384	12	<input type="checkbox"/> Compensable Delay Costs	June 2, 2017	April 1, 2019
	80198	13	<input type="checkbox"/> Completion Date (via calendar days)	April 1, 2008	
	80199	14	<input type="checkbox"/> Completion Date (via calendar days) Plus Working Days	April 1, 2008	
	80293	15	<input type="checkbox"/> Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
	80311	16	<input type="checkbox"/> Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
	80277	17	<input type="checkbox"/> Concrete Mix Design – Department Provided	Jan. 1, 2012	April 1, 2016
	80261	18	<input checked="" type="checkbox"/> Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80387	19	<input type="checkbox"/> Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
	80029	20	<input type="checkbox"/> Disadvantaged Business Enterprise Participation	Sept. 1, 2000	March 2, 2019
	80402	21	<input type="checkbox"/> Disposal Fees	Nov. 1, 2018	
	80378	22	<input checked="" type="checkbox"/> Dowel Bar Inserter	Jan. 1, 2017	Jan. 1, 2018
	80405	23	<input type="checkbox"/> Elastomeric Bearings	Jan. 1, 2019	
	80421	24	<input type="checkbox"/> Electric Service Installation	Jan. 1, 2020	
	80415	25	<input type="checkbox"/> Emulsified Asphalts	Aug. 1, 2019	
	80423	26	<input type="checkbox"/> Engineer's Field Office and Laboratory	Jan. 1, 2020	
	80388	27	<input type="checkbox"/> Equipment Parking and Storage	Nov. 1, 2017	
	80229	28	<input type="checkbox"/> Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
	80417	29	<input type="checkbox"/> Geotechnical Fabric for Pipe Underdrains and French Drains	Nov. 1, 2019	
	80420	30	<input type="checkbox"/> Geotextile Retaining Walls	Nov. 1, 2019	
	80304	31	<input type="checkbox"/> Grooving for Recessed Pavement Markings	Nov. 1, 2012	Nov. 1, 2017
	80422	32	<input type="checkbox"/> High Tension Cable Median Barrier Reflectors	Jan. 1, 2020	
	80416	33	<input type="checkbox"/> Hot-Mix Asphalt – Binder and Surface Course	July 2, 2019	Nov. 1, 2019
	80398	34	<input checked="" type="checkbox"/> Hot-Mix Asphalt – Longitudinal Joint Sealant	Aug. 1, 2018	Nov. 1, 2019
*	80406	35	<input type="checkbox"/> Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT Data Collection)	Jan. 1, 2019	Jan. 2, 2020
	80347	36	<input type="checkbox"/> Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	July 2, 2019
	80383	37	<input type="checkbox"/> Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	July 2, 2019
	80411	38	<input type="checkbox"/> Luminaires, LED	April 1, 2019	
	80393	39	<input checked="" type="checkbox"/> Manholes, Valve Vaults, and Flat Slab Tops	Jan. 1, 2018	March 1, 2019
	80045	40	<input type="checkbox"/> Material Transfer Device	June 15, 1999	Aug. 1, 2014
	80418	41	<input type="checkbox"/> Mechanically Stabilized Earth Retaining Walls	Nov. 1, 2019	
	80424	42	<input type="checkbox"/> Micro-Surfacing and Slurry Sealing	Jan. 1, 2020	
*	80428	43	<input type="checkbox"/> Mobilization	April 1, 2020	
	80165	44	<input type="checkbox"/> Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
	80412	45	<input type="checkbox"/> Obstruction Warning Luminaires, LED	Aug. 1, 2019	
	80349	46	<input type="checkbox"/> Pavement Marking Blackout Tape	Nov. 1, 2014	April 1, 2016

80371	47	<input type="checkbox"/>	Pavement Marking Removal	July 1, 2016	
80389	48	<input checked="" type="checkbox"/>	Portland Cement Concrete	Nov. 1, 2017	
80359	49	<input type="checkbox"/>	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2019
80300	50	<input type="checkbox"/>	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	April 1, 2016
34261	51	<input type="checkbox"/>	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	52	<input type="checkbox"/>	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
* 80306	53	<input type="checkbox"/>	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 2, 2020
80407	54	<input type="checkbox"/>	Removal and Disposal of Regulated Substances	Jan. 1, 2019	Jan. 1, 2020
* 80419	55	<input type="checkbox"/>	Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric	Nov. 1, 2019	April 1, 2020
80395	56	<input type="checkbox"/>	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
80340	57	<input type="checkbox"/>	Speed Display Trailer	April 2, 2014	Jan. 1, 2017
80127	58	<input type="checkbox"/>	Steel Cost Adjustment	April 2, 2004	Aug. 1, 2017
80408	59	<input type="checkbox"/>	Steel Plate Beam Guardrail Manufacturing	Jan. 1, 2019	
80413	60	<input type="checkbox"/>	Structural Timber	Aug. 1, 2019	
80397	61	<input checked="" type="checkbox"/>	Subcontractor and DBE Payment Reporting	April 2, 2018	
80391	62	<input type="checkbox"/>	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
80317	63	<input type="checkbox"/>	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	Aug. 1, 2019
80298	64	<input type="checkbox"/>	Temporary Pavement Marking	April 1, 2012	April 1, 2017
80403	65	<input type="checkbox"/>	Traffic Barrier Terminal, Type 1 Special	Nov. 1, 2018	
80409	66	<input checked="" type="checkbox"/>	Traffic Control Devices - Cones	Jan. 1, 2019	
80410	67	<input type="checkbox"/>	Traffic Spotters	Jan. 1, 2019	
20338	68	<input type="checkbox"/>	Training Special Provisions	Oct. 15, 1975	
80318	69	<input type="checkbox"/>	Traversable Pipe Grate for Concrete End Sections	Jan. 1, 2013	Jan. 1, 2018
* 80429	70	<input type="checkbox"/>	Ultra-Thin Bonded Wearing Course	April 1, 2020	
80288	71	<input checked="" type="checkbox"/>	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
80302	72	<input type="checkbox"/>	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
* 80414	73	<input type="checkbox"/>	Wood Fence Sight Screen	Aug. 1, 2019	April 1, 2020
* 80427	74	<input checked="" type="checkbox"/>	Work Zone Traffic Control Devices	Mar. 2, 2020	
80071	75	<input type="checkbox"/>	Working Days	Jan. 1, 2002	

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

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

The following special provisions have been deleted from use.

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

The following special provisions require additional information from the designer. The additional information needs to be submitted as a separate document. The Project Coordination and Implementation section will then include the information in the applicable special provision.

- 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

**CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)**

Effective: June 1, 2010

Revised: November 1, 2014

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

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

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

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

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

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

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

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

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

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

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

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

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

Any costs associated with retrofitting any diesel powered off-road equipment with emission control devices shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall not be grounds for a claim.

### **Diesel Retrofit Deficiency Deduction**

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

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

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

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

80261

**DOWEL BAR INSERTER (BDE)**

Effective: January 1, 2017

Revised: January 1, 2018

Add the following to Article 420.03 of the Standard Specifications.

“(l) Mechanical Dowel Bar Inserter ..... 1103.20”

Revise the first paragraph of Article 420.05(b)(1) of the Supplemental Specifications to read:

“Preformed or Drilled Holes. If applicable, the tie bars shall be installed after the dowel bars have been tested with the MIT Scan-2 device according to Article 420.05(c)(2)b.2. The tie bars shall be installed with a nonshrink grout or chemical adhesive providing a minimum pull-out strength as follows.”

Revise Article 420.05(c) of the Standard Specifications to read:

“(c) Transverse Contraction Joints. Transverse contraction joints shall consist of planes of weakness created by sawing grooves in the surface of the pavement and shall include load transfer devices consisting of dowel bars. Transverse contraction joints shall be according to the following.”

Revise Article 420.05(c)(2) of the Standard Specifications to read:

“(2) Dowel Bars. Dowel Bars shall be installed parallel to the centerline of the pavement and parallel to the proposed pavement surface. Installation shall be according to one of the following methods.

- a. Dowel Bar Assemblies. The assembly shall act as a rigid unit with each component securely held in position relative to the other members of the assembly. The entire assembly shall be held securely in place by means of nails which shall penetrate the stabilized subbase. At least ten nails shall be used for each 10, 11, or 12 ft (3, 3.3, or 3.6 m) section of assembly.

Metal stakes shall be used instead of nails, with soil or granular subbase. The stakes shall loop over or attach to the top parallel spacer bar of the assembly and penetrate the subgrade or subbase at least 12 in. (300 mm).

At the location of each dowel bar assembly, the subgrade or subbase shall be reshaped and re-tamped when necessary.

Prior to placing concrete, any deviation of the dowel bars from the correct horizontal or vertical alignment (horizontal skew or vertical tilt) greater than 3/8 in. in 12 in (9 mm in 300 mm) shall be corrected and a light coating of oil shall be uniformly applied to all dowel bars.

Care shall be exercised in depositing the concrete at the dowel bar assemblies so the horizontal and vertical alignment will be retained.

- b. Dowel Bar Insertion. The dowel bars may be placed in the pavement slab with a mechanical dowel bar inserter (DBI) attached to a formless paver for pavements  $\geq 7.0$  in. (175 mm) in thickness. A light coating of oil shall be uniformly applied to all dowel bars.

The DBI shall insert the dowel bars with vibration into the plastic concrete after the concrete has been struck off and consolidated without deformation of the slab. After the bars have been inserted, the concrete shall be refinished and no voids shall exist around the dowel bars. The forward movement of the paver shall not be interrupted by the inserting of the dowel bars.

The location of each row of dowel bars shall be marked in a manner to facilitate where to insert the bars, and where to saw the transverse joint.

1. Placement Tolerances for Dowel Bars. The DBI shall place the dowel bars in the concrete pavement within the following tolerances.

- (a.) Longitudinal Translation (Mislocation). Longitudinal translation (mislocation) shall be defined as the position of the center of the dowel bar along the longitudinal axis, in relation to the sawed joint.

The quality control tolerance for longitudinal translation shall not exceed 2.0 in (50 mm). If this tolerance is exceeded, adjustments shall be made to the paving operation.

Any joint having two or more dowel bars with an embedment length less than 4.0 in. (100 mm) within 12 in. (300 mm) of the same wheelpath will be considered unacceptable. The left and right wheelpaths shall be determined by excluding the middle 2.5 ft (0.8 m) of the pavement lane, and by excluding the outer 1.0 ft (0.3 m) measured from each pavement lane edge. Any joint having an average dowel bar embedment length less than 5.25 in. (130 mm) will also be considered unacceptable. Embedment length shall be defined as the length of dowel bar embedded on the short side of the sawed joint. An unacceptable joint shall be replaced with a minimum of 6 ft (1.8 m) of pavement centered over the joint according to Section 442 for Class B patches.

- (b.) Horizontal Translation (Mislocation). Horizontal translation (mislocation) shall be defined as the difference in the actual dowel bar location parallel to the longitudinal or edge joint from its theoretical position as shown on the plans.

The quality control tolerance for horizontal translation shall not exceed 2.0 in. (50 mm). If this tolerance is exceeded, adjustments shall be made to the paving operation.

Any joint having a dowel bar with a translation greater than 4.0 in. (100 mm) will be considered unacceptable, but may remain in place unless the Engineer determines the joint will not function. If the joint is unable to remain in place, the joint shall be replaced with a minimum of 6 ft (1.8 m) of pavement centered over the joint according to Section 442 for Class B patches.

- (c.) Vertical Translation (Mislocation). Vertical translation (mislocation) shall be defined as the difference in the vertical position of the dowel bar relative to the theoretical midpoint of the slab.

The quality control tolerance for vertical translation shall be as shown in the following table. If these tolerances are exceeded, adjustments shall be made to the paving operation.

Pavement Thickness	Dowel Bar Diameter	Vertical Translation Tolerance Above Midpoint	Vertical Translation Tolerance Below Midpoint
≥7 in. to <8 in. (≥175 mm to <200 mm)	1.25 in. (31 mm)	0.25 in. (6 mm)	0.5 in. (13 mm)
≥8 in. to <9 in. (≥200 mm to <225 mm)	1.50 in. (38 mm)	0.25 in. (6 mm)	0.5 in. (13 mm)
≥9 in. to <10 in. (≥225 mm to <250 mm)	1.50 in. (38 mm)	0.75 in. (19 mm)	0.75 in. (19 mm)
≥10 in. (≥250 mm)	1.50 in. (38 mm)	0.75 in. (19 mm)	1.0 in. (25 mm)

Any joint having a dowel bar with top concrete cover less than  $T/3$ , where T is slab thickness, will be considered unacceptable. Any joint having 2 or more dowel bars with bottom concrete cover less than 2.0 in. (50 mm) will also be considered unacceptable. An unacceptable joint shall be replaced with a minimum of 6 ft (1.8 m) of pavement according to Section 442 for Class B patches.

- (d.) Vertical Tilt or Horizontal Skew (Misalignment). Vertical tilt or horizontal skew (misalignment) shall be defined as the difference in position of the dowel bar ends with respect to each other. Vertical tilt is measured in the vertical axis whereas horizontal skew is measured in the horizontal axis. Misalignment shall be measured in terms of a joint score. The joint score shall be defined as the degree of misalignment evaluated for a single

transverse joint for each lane of pavement. The joint score shall be determined as follows:

$$Joint\ Score = \left( 1 + \left( \frac{x}{x-n} \right) \sum_{i=1}^{x-n} W_i \right)$$

where:

$W_i$  = weighting factor (Table 1) for dowel  $i$

$x$  = number of dowels in a single joint

$n$  = number of dowels excluded from the joint score calculation due to measurement interference

*Single Dowel Misalignment* – The degree of misalignment applicable to a single dowel bar, calculated as:

$$Single\ Dowel\ Misalignment = \sqrt{(Horizontal\ Skew)^2 + (Vertical\ Tilt)^2}$$

Table 1. Weighting Factors in Joint Score Determination	
Single Dowel Bar Misalignment (SDM)	W, Weighting Factor
SDM ≤ 0.6 in. (15 mm)	0
0.6 in. (15 mm) < SDM ≤ 0.8 in. (20 mm)	2
0.8 in. (20 mm) < SDM ≤ 1 in. (25 mm)	4
1 in. (25 mm) < SDM ≤ 1.5 in. (38 mm)	5
1.5 in. (38 mm) < SDM	10

The quality control tolerance for vertical tilt or horizontal skew shall not exceed 0.6 in. (15 mm). If the tolerance is exceeded for either one, adjustments shall be made to the paving operation.

Any joint having a dowel bar with a vertical tilt or horizontal skew greater than 1.5 in. (38 mm) shall be cut. If more than one dowel bar is required to be cut in the joint, the joint will be considered unacceptable and shall be replaced with a minimum of 6 ft (1.8 m) of pavement centered over the joint according to Section 442 for Class B patches.

Single dowel bar misalignment shall be controlled to provide the joint scores shown in the following table.

Number of Dowel Bars in the Joint	Maximum Joint Score
< 5	4
≥ 5 but ≤ 9	8
> 9	12

A joint score greater than the specified maximum will be considered locked. Three consecutive joints with a score greater than the specified maximum total score will all be considered unacceptable.

Three consecutive locked joints shall be corrected by selecting one joint and cutting a dowel bar. Preference shall be given to cutting a dowel bar within the middle 2.5 ft (0.8 m) of the pavement lane to avoid the wheelpaths. If none of the three locked joints will have a joint score less than or equal to the specified maximum after selecting one dowel bar to cut, one of the joints shall be replaced with a minimum of 6 ft (1.8 m) of pavement centered over the joint according to Section 442 for Class B patches.

(e.) For unacceptable work, the Contractor may propose alternative repairs for consideration by the Engineer.

2. Testing of Dowel Bar Placement. The placement of the dowel bars shall be tested within 24 hours of paving with a calibrated MIT Scan-2 device according to "Use of Magnetic Tomography Technology to Evaluate Dowel Placement" (Publication No. FHWA-IF-06-006) by the Federal Highway Administration.

A trained operator shall perform the testing, and all testing shall be performed in the presence of the Engineer. The device shall be calibrated to the type and size dowel bar used in the work according to the manufacturer's instructions. Calibration documentation shall be provided to the Engineer prior to construction. The device shall be recalibrated and/or validate readings as required by the Engineer. The device may be utilized as a process control and make necessary adjustments to ensure the dowel bars are placed in the correct location.

(a.) Test Section. Prior to start of production paving, a test section consisting of 30 transverse joints shall be constructed. The test section may be performed on the actual pavement, but production paving shall not begin until an acceptable test section has been constructed. The test section will be considered acceptable when all of the following are met:

- (1.) 90 percent of the dowel bars meet the quality control tolerance for longitudinal, horizontal, or vertical translation (mislocation);
- (2.) 90 percent of the dowel bars meet the quality control tolerance for vertical tilt or horizontal skew deviation (misalignment); and
- (3.) none of the joints are considered unacceptable prior to a corrective measure for mislocation or misalignment.

If the test section fails, another test section consisting of 30 joints shall be constructed.

The test section requirement may be waived by the Engineer if the Contractor has constructed an acceptable test section and successfully used the DBI on a Department contract within the same calendar year.

- (b.) Production Paving. After the test section is approved, production paving may begin. The mislocation and misalignment of each dowel bar for the first ten joints constructed, and every tenth joint thereafter, shall be tested.

If two consecutive days of paving result in 5 percent or more of the joints on each day being unacceptable prior to a corrective measure, production paving shall be discontinued and a new test section shall be constructed.

If any joint is found to be unacceptable prior to a corrective measure, testing of additional joints on each side of the unacceptable joint shall be performed until acceptable joints are found.

- (c.) Test Report. Test reports shall be provided to the Engineer within two working days of completing each day's testing. The test report shall include the following.

- (1.) Contract number, placement date, county-route-section, direction of traffic, scan date, Contractor, and name of individual performing the tests.
- (2.) Provide the standard report generated from the on-board printer of the imaging technology used for every dowel and joint measured.
- (3.) For every dowel measured, provide the joint identification number, lane number and station, dowel bar number or x-location, direction of testing and reference joint location/edge location, longitudinal translation, horizontal translation, vertical translation, vertical tilt, and horizontal skew.
- (4.) Identify each dowel bar with a maximum longitudinal, horizontal, or vertical translation that has been exceeded. Identify each dowel bar with a maximum vertical tilt or horizontal skew deviation that has been exceeded.
- (5.) Joint Score Details: Provide the joint identification number, lane number, station, and calculated joint score for each joint.

- (6.) Locked Joint Identification: Identify each joint where the maximum joint score is exceeded.
- (d.) Exclusions. Exclude the following from dowel bar mislocation and misalignment measurements.
- (1.) Transverse construction joints (headers).
  - (2.) Dowel bars within 24 in. (610 mm) of metallic manholes, inlets, metallic castings, or other nearby or underlying steel reinforced objects.
  - (3.) The outside dowel bar when tie bars are installed with mechanical equipment in fresh concrete. For tie bar installations involving preformed or drilled holes, installation of the tie bar shall be performed after testing with the MIT Scan-2 device.
  - (4.) Joints located directly under high voltage power lines.
  - (5.) Subject to the approval of the Engineer, any other contributors to magnetic interference.
- (e.) Deficiency Deduction. When the Contractor has cut 25 dowel bars to correct unacceptable joints, the Contractor shall be liable and shall pay to the Department a deficiency deduction of \$500.00 for the cost of the bars. Thereafter, an additional deficiency deduction of \$20.00 for each additional bar cut will be assessed."

Add the following to Section 1103 of the Standard Specifications.

**1103.20 Mechanical Dowel Bar Inserter.** The mechanical dowel bar inserter (DBI) shall be self-contained and supported on the formless paver with the ability to move separately from the paver. The DBI shall be equipped with insertion forks along with any other devices necessary for finishing the concrete the full width of the pavement. The insertion forks shall have the ability to vibrate at a minimum frequency of 3000 VPM."

**HOT-MIX ASPHALT – LONGITUDINAL JOINT SEALANT (BDE)**

Effective: August 1, 2018  
Revised: November 1, 2019

Add the following to Article 406.02 of the Standard Specifications.

“(d) Longitudinal Joint Sealant (LJS) ..... 1032”

Add the following to Article 406.03 of the Standard Specifications.

- “(k) Longitudinal Joint Sealant (LJS) Pressure Distributor (Note 2)
- (l) Longitudinal Joint Sealant (LJS) Melter Kettle (Note 3)

Note 2. When a pressure distributor is used to apply the LJS, the distributor shall be equipped with a heating and recirculating system along with a functioning auger agitating system or vertical shaft mixer in the hauling tank to prevent localized overheating. The distributor shall be equipped with a guide or laser system to aid in proper placement of the LJS application.

Note 3. When a melter kettle is used to transport and apply the LJS, the melter kettle shall be an oil jacketed double-boiler with agitating and recirculating systems. Material from the kettle may be dispensed through a pressure feed wand with an applicator shoe or through a pressure feed wand into a hand-operated thermal push cart.”

Revise Article 406.06(g)(2) of the Standard Specifications to read:

- “(2) Longitudinal Joints. Unless prohibited by stage construction, any HMA lift shall be complete before construction of the subsequent lift. The longitudinal joint in all lifts shall be at the centerline of the pavement if the roadway comprises two lanes in width, or at lane width if the roadway is more than two lanes in width.

When stage construction prohibits the total completion of a particular lift, the longitudinal joint in one lift shall be offset from the longitudinal joint in the preceding lift by not less than 3 in. (75 mm). The longitudinal joint in the surface course shall be at the centerline of the pavement if the roadway comprises two lanes in width, or at lane width if the roadway is more than two lanes in width.

A notched wedge longitudinal joint shall be used between successive passes of HMA binder course that has a difference in elevation of greater than 2 in. (50 mm) between lanes on pavement that is open to traffic.

The notched wedge longitudinal joint shall consist of a 1 to 1 1/2 in. (25 to 38 mm) vertical notch at the lane line, a 9 to 12 in. (230 to 300 mm) wide uniform taper sloped toward and extending into the open lane, and a second 1 to 1 1/2 in. (25 to 38 mm) vertical notch at the outside edge.

The notched wedge longitudinal joint shall be formed by the strike off device on the paver. The wedge shall then be compacted by the joint roller.

Tack coat shall be applied to the entire surface of the notched wedge joint immediately prior to placing the adjacent lift of binder. The material shall be uniformly applied at a rate of 0.05 to 0.1 gal/sq yd (0.2 to 0.5 L/sq m).

When the use of longitudinal joint sealant (LJS) is specified, the surface to which the LJS is applied shall be thoroughly cleaned and dry. The LJS may be placed before or after the tack coat. When placed after the tack coat, the tack shall be fully cured prior to placement of the LJS.

The LJS shall be applied in a single pass with a pressure distributor, melter kettle, or hand applied from a roll. At the time of installation, the pavement surface temperature and the ambient temperature shall be a minimum of 40 °F (4 °C) and rising.

The LJS shall be applied at a width of 18 in. (450 mm) ± 1 1/2 in. (38 mm) and centered ± 2 in. (± 50 mm) under the joint of the next HMA lift to be constructed. If the LJS flows more than 2 in. (50 mm) from the initial placement width, LJS placement shall stop and remedial action shall be taken.

When starting another run of LJS placement, suitable release paper shall be placed over the previous application of LJS to prevent doubling up of thickness of LJS.

The application rate of LJS shall be according to the following.

LJS Application Table			
Overlay Thickness in. (mm)	Coarse Graded Application Rate <sup>1/</sup> (IL-19.0, IL-19.0L, IL-9.5, IL-9.5L, IL-4.75) lb/ft (kg/m)	Fine Graded Application Rate <sup>1/</sup> lb/ft (kg/m)	SMA Mixtures <sup>1/2/</sup>
3/4 (19)	0.88 (1.31)		
1 (25)	1.15 (1.71)		
1 1/4 (32)	1.31 (1.95)	0.88 (1.31)	
1 1/2 (38)	1.47 (2.19)	0.95 (1.42)	1.26 (1.88)
1 3/4 (44)	1.63 (2.43)	1.03 (1.54)	1.38 (2.06)
2 (50)	1.80 (2.68)	1.11 (1.65)	1.51 (2.25)
≥ 2 1/4 (60)	1.96 (2.92)		

1/ The application rate has a surface demand for liquid included within it. The thickness of the LJS may taper from the center of the application to a lesser thickness on the edge of the application, provided the correct width and application rate are maintained.

2/ If the joint is between SMA and either Coarse Graded or Fine Graded, the SMA rate shall be used.

The Contractor shall furnish to the Engineer a bill of lading for each tanker supplying material to the project. The application rate of LJS shall be verified within the first 1000 ft (300 m) of the day's placement and every 12,000 ft (3600 m) thereafter. A suitable paper or pan shall be placed at a random location in the path of the LJS. After application of the LJS, the paper or pan shall be picked up, weighed, and the application rate calculated. The tolerance between the application rate shown in the LJS Application Table and the calculated rate shall be  $\pm 10$  percent. The LJS shall be replaced in the area where the sample was taken.

A 1 qt (1 L) sample shall be taken from the pressure distributor or melting kettle at the jobsite once for each contract and sent to the Central Bureau of Materials.

The LJS shall be suitable for construction traffic to drive on without pickup or tracking of the LJS within 30 minutes of placement. If pickup or tracking occurs, LJS placement shall stop and damaged areas shall be repaired.

Prior to paving, the Contractor shall ensure the paver end plate and grade control device is adequately raised above the finished height of the LJS.

The LJS shall not flush to the final surface of the HMA pavement.”

Add the following paragraph after the second paragraph of Article 406.13(b) of the Standard Specifications.

“Application of longitudinal joint sealant (LJS) will be measured for payment in place in feet (meters).”

Add the following paragraph after the first paragraph of Article 406.14 of the Standard Specifications.

“Longitudinal joint sealant will be paid for at the contract unit price per foot (meter) for LONGITUDINAL JOINT SEALANT.”

Add the following to Section 1032 of the Standard Specifications.

**“1032.12 Longitudinal Joint Sealant (LJS).** Longitudinal joint sealant (LJS) will be accepted according to the current Bureau of Materials and Physical Research Policy Memorandum, “Performance Graded Asphalt Binder Acceptance Procedure” with the following exceptions: Article 3.1.9 and 3.4.1.4 of the policy memorandum will be excluded. The bituminous material used for the LJS shall be according to the following table. Elastomers shall be added to a base asphalt and shall be either a styrene-butadiene diblock or triblock copolymer without oil extension, or a styrene-butadiene rubber. Air blown asphalt, acid modification, or other modifiers will not be allowed. LJS in the form of pre-formed rollout banding may also be used.

Test	Test Requirement	Test Method
Dynamic shear @ 88°C (unaged), G*/sin δ, kPa	1.00 min.	AASHTO T 315
Creep stiffness @ -18°C (unaged), Stiffness (S), MPa m-value	300 max. 0.300 min.	AASHTO T 313
Ash, %	1.0 – 4.0	AASHTO T 111
Elastic Recovery, 100 mm elongation, cut immediately, 25°C, %	70 min.	ASTM D 6084 (Procedure A)
Separation of Polymer, Difference in °C of the softening point (ring and ball)	3 max.	ITP Separation of Polymer from Asphalt Binder"

80398

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

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

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

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

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

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

“(g) Structural Steel (Note 4) ..... 1006.04

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

Add the following to Article 602.02 of the Standard Specifications:

“(s) Anchor Bolts and Rods (Note 5) ..... 1006.09

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

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

“Catch basin Types A, B, C, and D; Manhole Type A; Inlet Types A and B; Drainage Structures Types 1, 2, 3, 4, 5, and 6; Valve Vault Type A; and reinforced concrete flat slab top (Highway Standard 602601) shall be manufactured according to AASHTO M 199 (M 199M), except as shown on the plans. Additionally, catch basins, inlets, and drainage structures shall have a minimum concrete compressive strength of 4500 psi (31,000 kPa) at 28 days and manholes,

valve vaults, and reinforced concrete flat slab tops shall have a minimum concrete compressive strength of 5000 psi (34,500 kPa) at 28 days.”

80393

## PORTLAND CEMENT CONCRETE (BDE)

Effective: November 1, 2017

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

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

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

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

80389

## **SUBCONTRACTOR AND DBE PAYMENT REPORTING (BDE)**

Effective: April 2, 2018

Add the following to Section 109 of the Standard Specifications.

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

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

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

80397

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

Effective: January 1, 2019

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

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

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

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

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

80409

## **WARM MIX ASPHALT (BDE)**

Effective: January 1, 2012

Revised: April 1, 2016

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

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

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

### Equipment.

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

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

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

**"(11) Equipment for Warm Mix Technologies.**

- a. **Foaming.** Metering equipment for foamed asphalt shall have an accuracy of  $\pm 2$  percent of the actual water metered. The foaming control system shall be electronically interfaced with the asphalt binder meter.

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

#### Mix Design Verification.

Add the following to Article 1030.04 of the Standard Specifications.

"(e) Warm Mix Technologies.

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

#### Construction Requirements.

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

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

#### Basis of Payment.

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

80288

## WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020

Add the following to Article 701.03 of the Standard Specifications:

“(q) Temporary Sign Supports ..... 1106.02”

Revise the third paragraph of Article 701.14 of the Standard Specifications to read:

“For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer’s specifications.”

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

“**701.15 Traffic Control Devices.** For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer’s self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device.”

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

“**1106.02 Devices.** Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 1 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 2 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2024.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact

attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH-16 compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350 or MASH 2009, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.

For each type of device, when no more than one MASH-16 compliant is available, an NCHRP 350 or MASH-2009 compliant device may be used, even if manufactured after December 31, 2019.”

Revise Articles 1106.02(g), 1106.02(k), and 1106.02(l) to read:

“(g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.

(k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.

(l) Movable Traffic Barrier. The movable traffic barrier shall be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis.”



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 Villa Park

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



**PLYMOUTH STREET IMPROVEMENT PROJECT  
VILLAGE OF VILLA PARK**

Exhibit A

Illinois Department of Labor

Division of Conciliation and Mediation

DuPage County Prevailing Wages



**PREVAILING WAGE RATES FOR DUPAGE COUNTY**

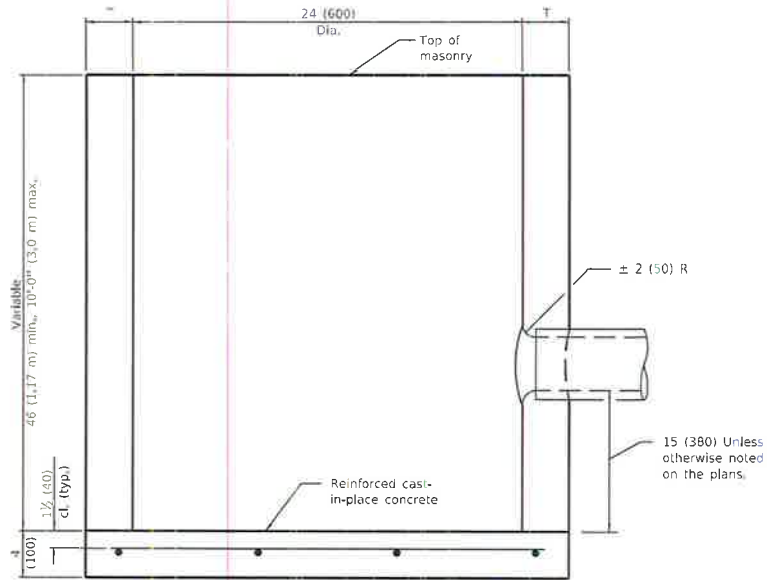
Effective Date	County	Trade Title	Region	Type	Class	Base Wage	Foreman Wage	OT M-F	OT Sa	OT Su	OT Hol	H/W	Pension	Vacation	Training	Other Fringe Benefit
11/23/2018	DuPage	ASBESTOS ABT-GEN	All	ALL		42.72	43.72	1.5	1.5	2	2	14.9	12.57	0	0.72	0
11/5/2018	DuPage	ASBESTOS ABT-MEC	All	BLD		37.88	40.38	1.5	1.5	2	2	12.92	11.82	0	0.72	0
8/15/2018	DuPage	BOILERMAKER	All	BLD		49.46	53.91	2	2	2	2	6.97	20.41	0	0.4	0
11/16/2018	DuPage	BRICK MASON	All	BLD		46.19	50.81	1.5	1.5	2	2	10.65	17.92	0	0.92	0
1/11/2019	DuPage	CARPENTER	All	ALL		47.35	49.35	1.5	1.5	2	2	11.79	20.41	0	0.63	0
4/5/2019	DuPage	CEMENT MASON	All	ALL		45.25	47.25	2	1.5	2	2	14.25	18.03	0	1.1	0
8/15/2018	DuPage	CERAMIC TILE FNSHER	All	BLD		39.56	39.56	1.5	1.5	2	2	10.75	12.02	0	0.77	0
11/5/2018	DuPage	COMMUNICATION TECH	All	BLD		33.82	36.62	1.5	1.5	2	2	12.35	20.39	1.89	0.68	0
8/15/2018	DuPage	ELECTRIC PWR EQMT OP	All	ALL		42.59	57.95	1.5	1.5	2	2	5.75	13.21	0	0.75	0
8/15/2018	DuPage	ELECTRIC PWR EQMT OP	ALL	HWY		41.45	56.38	1.5	1.5	2	2	5.5	12.87	0	0.73	0
4/5/2019	DuPage	ELECTRIC PWR GRNDMAN	All	ALL		32.86	57.95	1.5	1.5	2	2	5.75	10.2	0	0.58	0
8/15/2018	DuPage	ELECTRIC PWR GRNDMAN	ALL	HWY		32	56.38	1.5	1.5	2	2	5.5	9.92	0	0.66	0
10/26/2018	DuPage	ELECTRIC PWR LINEMAN	All	ALL		51.06	57.95	1.5	1.5	2	2	5.75	15.85	0	0.9	0
8/15/2018	DuPage	ELECTRIC PWR LINEMAN	ALL	HWY		49.67	56.38	1.5	1.5	2	2	5.5	15.4	0	0.88	0
8/15/2018	DuPage	ELECTRIC PWR TRK DRV	All	ALL		34.03	57.95	1.5	1.5	2	2	5.75	10.55	0	0.6	0
8/15/2018	DuPage	ELECTRIC PWR TRK DRV	ALL	HWY		33.14	56.38	1.5	1.5	2	2	5.5	10.29	0	0.59	0
11/5/2018	DuPage	ELECTRICIAN	All	BLD		40.5	44.5	1.5	1.5	2	2	12.35	23	5.25	0.75	0
4/5/2019	DuPage	ELEVATOR CONSTRUCTOR	All	BLD		54.85	61.71	2	2	2	2	15.43	9.71	4.38	0.61	0
4/5/2019	DuPage	FENCE ERECTOR	NE	ALL		40.88	42.88	1.5	1.5	2	2	13.59	14.5	0	0.65	0
8/15/2018	DuPage	FENCE ERECTOR	W	ALL		45.06		1.5	1.5	1.5	1.5	10.52	20.76	0	0.7	0
2/8/2019	DuPage	GLAZIER	All	BLD		43.85	45.35	1.5	2	2	2	14.17	21.11	0	0.94	0
11/5/2018	DuPage	HT/FROST INSULATOR	All	BLD		50.5	53	1.5	1.5	2	2	12.92	13.16	0	0.72	0
8/15/2018	DuPage	IRON WORKER	E	ALL		48.33	51.83	2	2	2	2	14.15	23.28	0	0.35	0
4/5/2019	DuPage	IRON WORKER	W	ALL		45.84	49.51	2	2	2	2	11.77	22.9	0	0.83	0
4/5/2019	DuPage	LABORER	All	ALL		42.72	43.47	1.5	1.5	2	2	14.9	12.57	0	0.72	0
8/15/2018	DuPage	LATHER	All	ALL		47.35	49.35	1.5	1.5	2	2	11.79	20.41	0	0.63	0
8/15/2018	DuPage	MACHINIST	All	BLD		48.38	50.88	1.5	1.5	2	2	7.23	8.95	1.85	1.47	0
8/15/2018	DuPage	MARBLE FINISHERS	All	ALL		34.65	47.7	1.5	1.5	2	2	10.65	16.46	0	0.49	0
8/15/2018	DuPage	MARBLE MASON	All	BLD		45.43	49.97	1.5	1.5	2	2	10.65	17.39	0	0.61	0
4/5/2019	DuPage	MATERIAL TESTER I	All	ALL		32.72	32.72	1.5	1.5	2	2	14.9	12.57	0	0.72	0
10/26/2018	DuPage	MATERIALS TESTER II	All	ALL		37.72	37.72	1.5	1.5	2	2	14.9	12.57	0	0.72	0
4/5/2019	DuPage	MILLWRIGHT	All	ALL		47.35	49.35	1.5	1.5	2	2	11.79	20.41	0	0.63	0
2/15/2019	DuPage	OPERATING ENGINEER	All	BLD	1	51.1	55.1	2	2	2	2	19.65	15.1	2	1.4	0
2/15/2019	DuPage	OPERATING ENGINEER	All	BLD	2	49.8	55.1	2	2	2	2	19.65	15.1	2	1.4	0
8/15/2018	DuPage	OPERATING ENGINEER	All	BLD	3	47.25	55.1	2	2	2	2	19.65	15.1	2	1.4	0
4/5/2019	DuPage	OPERATING ENGINEER	All	BLD	4	45.5	55.1	2	2	2	2	19.65	15.1	2	1.4	0
8/15/2018	DuPage	OPERATING ENGINEER	All	BLD	5	54.85	55.1	2	2	2	2	19.65	15.1	2	1.4	0
8/15/2018	DuPage	OPERATING ENGINEER	All	BLD	6	52.1	55.1	2	2	2	2	19.65	15.1	2	1.4	0
4/5/2019	DuPage	OPERATING ENGINEER	All	BLD	7	54.1	55.1	2	2	2	2	19.65	15.1	2	1.4	0
11/9/2018	DuPage	OPERATING ENGINEER	All	FLT		38	38	1.5	1.5	2	2	18.8	14.35	2	1.3	0
12/28/2018	DuPage	OPERATING ENGINEER	All	HWY	1	49.3	53.3	1.5	1.5	2	2	19.65	15.1	2	1.4	0
11/9/2018	DuPage	OPERATING ENGINEER	All	HWY	2	48.75	53.3	1.5	1.5	2	2	19.65	15.1	2	1.4	0

**PREVAILING WAGE RATES FOR DUPAGE COUNTY**

Effective Date	County	Trade Title	Region	Type	Class	Base Wage	Foreman Wage	OT M-F	OT Sa	OT Su	OT Hol	H/W	Pension	Vacation	Training	Other Fringe Benefit
11/9/2018	DuPage	OPERATING ENGINEER	All	HWY	3	46.7	53.3	1.5	1.5	2	2	19.65	15.1	2	1.4	0
8/15/2018	DuPage	OPERATING ENGINEER	All	HWY	4	45.3	53.3	1.5	1.5	2	2	19.65	15.1	2	1.4	0
11/9/2018	DuPage	OPERATING ENGINEER	All	HWY	5	44.1	53.3	1.5	1.5	2	2	19.65	15.1	2	1.4	0
8/15/2018	DuPage	OPERATING ENGINEER	All	HWY	6	52.3	53.3	1.5	1.5	2	2	19.65	15.1	2	1.4	0
11/9/2018	DuPage	OPERATING ENGINEER	All	HWY	7	50.3	53.3	1.5	1.5	2	2	19.65	15.1	2	1.4	0
8/15/2018	DuPage	ORNAMNTL IRON WORKER	E	ALL		48.05	50.55	2	2	2	2	14.09	20.59	0	1.25	0
8/15/2018	DuPage	ORNAMNTL IRON WORKER	W	ALL		45.06	48.66	2	2	2	2	10.52	20.76	0	0.7	
4/5/2019	DuPage	PAINTER	All	ALL		45.28	47.28	1.5	1.5	1.5	1.5	11.55	8.2	0	1.35	0
8/15/2018	DuPage	PAINTER SIGNS	All	BLD		38.2	43.25	1.5	1.5	2	2	2.6	3.25	0	0	0
8/15/2018	DuPage	PILEDRIVER	All	ALL		47.35	49.35	1.5	1.5	2	2	11.79	20.41	0	0.63	0
11/16/2018	DuPage	PIPEFITTER	All	BLD		48.5	51.5	1.5	1.5	2	2	10.05	18.85	0	2.54	0
11/5/2018	DuPage	PLASTERER	ALL	BLD		43.25	45.85	1.5	1.5	2	2	14.25	16.69	0	1.45	0
10/26/2018	DuPage	PLUMBER	All	BLD		50.25	53.25	1.5	1.5	2	2	14.34	14.42	0	1.31	0
4/5/2019	DuPage	ROOFER	All	BLD		43.65	47.65	1.5	1.5	2	2	9.73	12.44	0	0.53	0
12/14/2018	DuPage	SHEETMETAL WORKER	All	BLD		48.02	50.42	1.5	1.5	2	2	10.75	16.19	0	1.03	3.5
4/5/2019	DuPage	SPRINKLER FITTER	All	BLD		48.1	50.6	1.5	1.5	2	2	13.25	15.9	0	0.55	0
8/15/2018	DuPage	STEEL ERECTOR	E	ALL		42.07		2	2	2	2	13.45	19.59	0	0.35	0
8/15/2018	DuPage	STEEL ERECTOR	W	ALL		45.06	48.66	2	2	2	2	10.52	20.76	0	0.7	
8/15/2018	DuPage	STONE MASON	All	BLD		46.19	50.81	1.5	1.5	2	2	10.65	17.92	0	0.92	0
11/16/2018	DuPage	TERRAZZO FINISHER	All	BLD		41.54	44.54	1.5	1.5	2	2	10.75	13.71	0	0.86	0
11/16/2018	DuPage	TERRAZZO MASON	All	BLD		45.38	48.88	1.5	1.5	2	2	10.75	15.17	0	0.89	0
8/15/2018	DuPage	TILE MASON	All	BLD		46.49	50.49	1.5	1.5	2	2	10.75	14.99	0	0.9	0
4/5/2019	DuPage	TRAFFIC SAFETY WRKR	All	HWY		36	37.6	1.5	1.5	2	2	8.9	9.27	0	0.25	0
4/5/2019	DuPage	TRUCK DRIVER	All	ALL	1	37.61	38.16	1.5	1.5	2	2	9.08	11.36	0	0.15	0
4/5/2019	DuPage	TRUCK DRIVER	All	ALL	2	37.76	38.16	1.5	1.5	2	2	9.08	11.36	0	0.15	0
4/5/2019	DuPage	TRUCK DRIVER	All	ALL	3	37.96	38.16	1.5	1.5	2	2	9.08	11.36	0	0.15	0
4/5/2019	DuPage	TRUCK DRIVER	All	ALL	4	38.16	38.16	1.5	1.5	2	2	9.08	11.36	0	0.15	0
10/26/2018	DuPage	TUCKPINTER	All	BLD		46	48	1.5	1.5	2	2	8.34	16.81	0	0.93	0

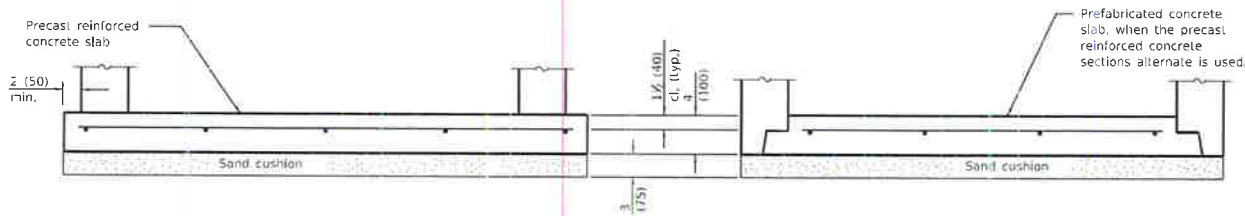
**PLYMOUTH STREET IMPROVEMENT PROJECT  
VILLAGE OF VILLA PARK**

**APPENDIX 2  
IDOT STANDARD DRAWINGS**



ALTERNATE MATERIALS FOR WALLS	T (min)
Precast Reinforced Concrete Section	3 (75)
Concrete Masonry Unit	5 (125)
Cast-in-Place Concrete	6 (150)
Brick Masonry	8 (200)

**ELEVATION**



**ALTERNATE BOTTOM SLAB**

**GENERAL NOTES**

Bottom slabs shall be reinforced with a minimum of 0.27 sq. in./ft. (570 sq. mm/m) in both directions with a maximum spacing of 9 (230).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

ISSUED 1-1-09

DESIGNED BY: *Michael Brand*

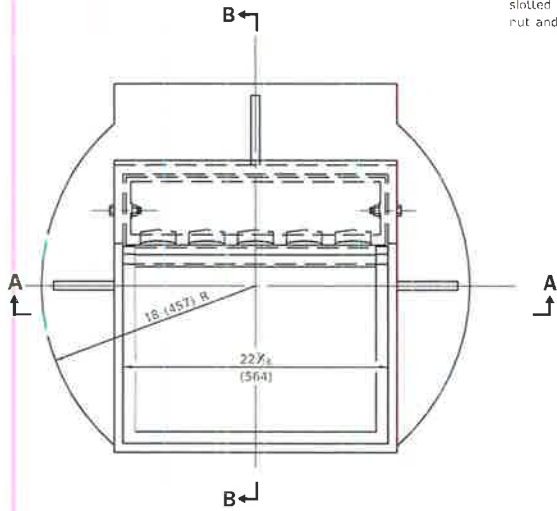
ENGINEER OF RULES AND PROCEDURES

APPROVED BY: *[Signature]*

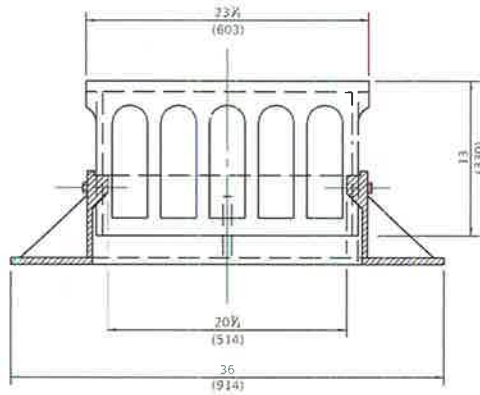
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS	<b>CATCH BASIN TYPE C</b>
1-1-11	Detailed rein. in slabs. Added max. limit to height. Added general notes.	
1-1-09	Switched units to English (metric).	
		<b>STANDARD 602011-02</b>





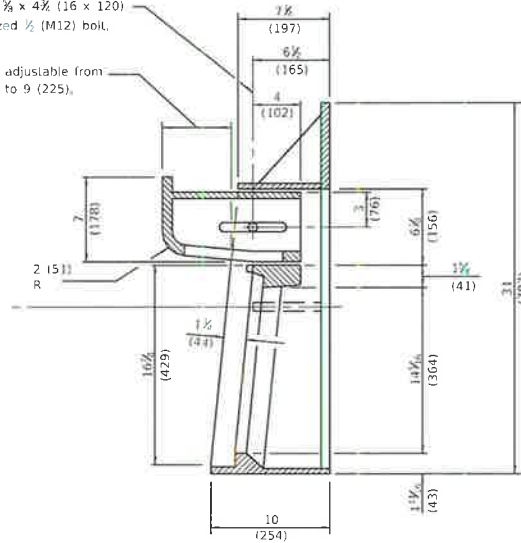
**CAST FRAME**



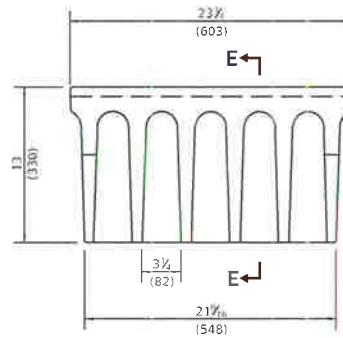
**SECTION A-A**

$\frac{1}{8}$  (16) dia. hole and  $\frac{3}{8}$  x  $4\frac{1}{2}$  (16 x 120) slotted hole for galvanized  $\frac{1}{2}$  (M12) bolt, nut and washer.

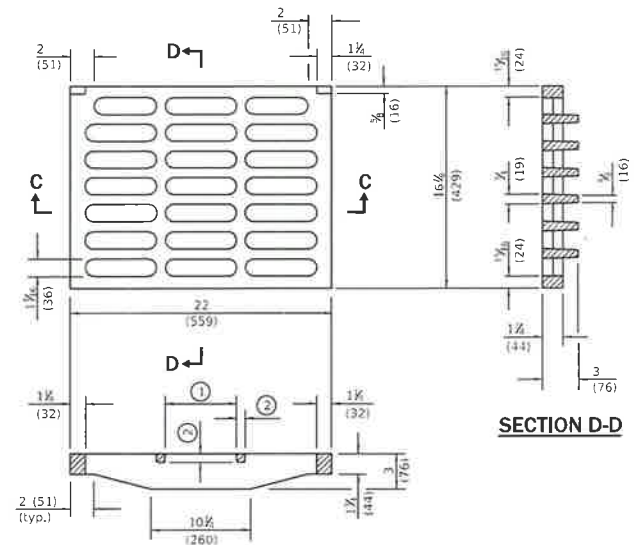
Curb box adjustable from  $5\frac{1}{4}$  (135) to 9 (225).



**SECTION B-B**



**ALTERNATE CURB BOX**

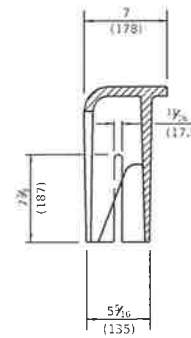


**SECTION C-C**

- ① = 6 (152) typ.
- ② =  $\frac{3}{8}$  (19) typ.

**SECTION D-D**

**CAST GRATE**



**SECTION E-E**

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

DATE: 1-1-15

ENGINEER: *Michael Beard*

ENGINEER OF POLICY AND PROCEDURES

DATE: 1-1-09

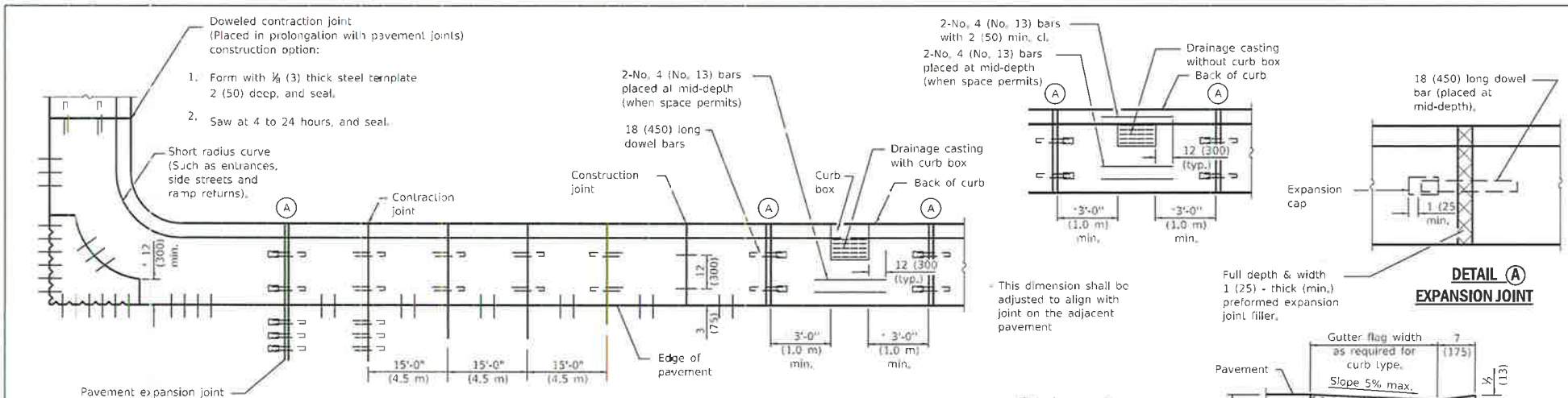
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-15	Revised dimensions of frame and alternate curb box.
1-1-09	Switched units to English (metric).

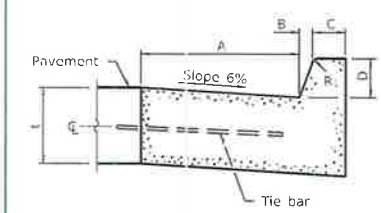
**FRAME AND GRATE  
TYPE 3**

**STANDARD 604006-05**

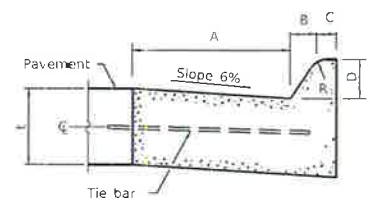




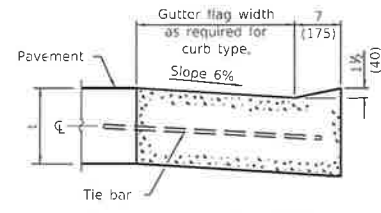
**PLAN**  
**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**



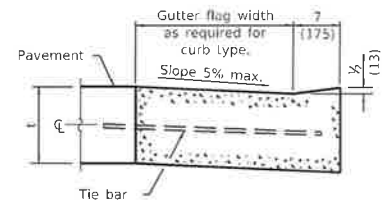
**BARRIER CURB**



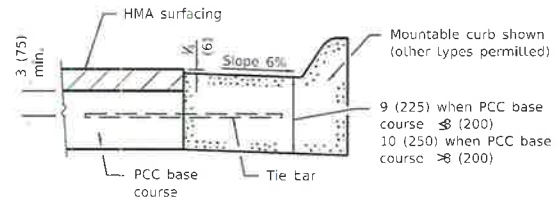
**MOUNTABLE CURB**



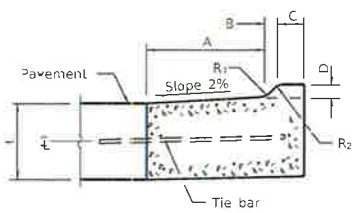
**DEPRESSED CURB (TYPICAL)**



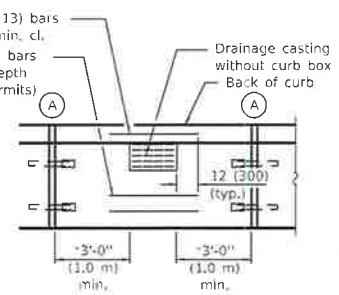
**DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED**



**ADJACENT TO PCC BASE COURSE WITH HMA SURFACING**



**M-2.06 (M-5.15) and M-2.12 (M-5.30)**



**DETAIL A**  
**EXPANSION JOINT**

**GENERAL NOTES**

The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 36 (900) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

All dimensions are in inches (millimeters) unless otherwise shown.

TABLE OF DIMENSIONS BARRIER CURB						
TYPE	A	B	C	D	R <sub>1</sub>	R <sub>2</sub>
B-5.06 *	6	6	6	6	6	6
(B-15.15)	(150)	(25)	(150)	(150)	(25)	(25)
B-5.12	12	1	6	6	6	1
(B-15.3)	(300)	(25)	(150)	(150)	(25)	(25)
B-5.18	18	1	6	6	6	1
(B-15.45)	(450)	(25)	(150)	(150)	(25)	(25)
B-5.24	24	1	6	6	6	1
(B-15.60)	(600)	(25)	(150)	(150)	(25)	(25)
B-5.12	12	2	5	9	1	1
(B-22.30)	(300)	(50)	(125)	(225)	(25)	(25)
B-5.18	18	2	5	9	1	1
(B-22.45)	(450)	(50)	(125)	(225)	(25)	(25)
B-5.24	24	2	5	9	1	1
(B-22.60)	(600)	(50)	(125)	(225)	(25)	(25)

\* For corner islands only.

TABLE OF DIMENSIONS MOUNTABLE CURB							
TYPE	A	B	C	D	R <sub>1</sub>	R <sub>2</sub>	
M-2.06	6	2	4	2	3	2	
(M-5.15)	(150)	(50)	(100)	(50)	(75)	(50)	
M-2.12	12	2	4	2	3	2	
(M-5.30)	(300)	(50)	(100)	(50)	(75)	(50)	
M-4.06	6	4	3	4	3	NA	
(M-10.15)	(150)	(100)	(75)	(100)	(75)	(75)	
M-4.12	12	4	3	4	3	NA	
(M-10.30)	(300)	(100)	(75)	(100)	(75)	(75)	
M-4.18	18	4	3	4	3	NA	
(M-10.45)	(450)	(100)	(75)	(100)	(75)	(75)	
M-4.24	24	4	3	4	3	NA	
(M-10.60)	(600)	(100)	(75)	(100)	(75)	(75)	
M-6.06	6	6	2	6	2	NA	
(M-15.15)	(150)	(150)	(50)	(150)	(50)	(50)	
M-6.12	12	6	2	6	2	NA	
(M-15.30)	(300)	(150)	(50)	(150)	(50)	(50)	
M-6.18	18	6	2	6	2	NA	
(M-15.45)	(450)	(150)	(50)	(150)	(50)	(50)	
M-6.24	24	6	2	6	2	NA	
(M-15.60)	(600)	(150)	(50)	(150)	(50)	(50)	

Illinois Department of Transportation

PROJECT: January 1, 2018

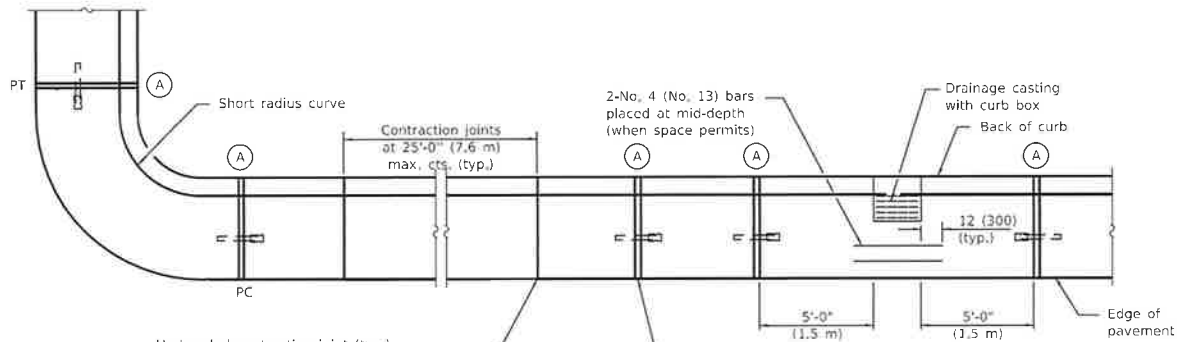
ENGINEER: *Michael B. Smith*

APPROVED: *Thomas W. Bales*

ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS	<b>CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER</b> (Sheet 1 of 2)
1-1-18	Revised General Note for tie bar spacing to 36 (900) cts.	
1-1-15	Added B-6.06 (B-15.15) barrier curb and gutter to table (corner islands only).	

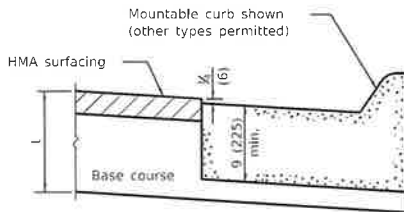
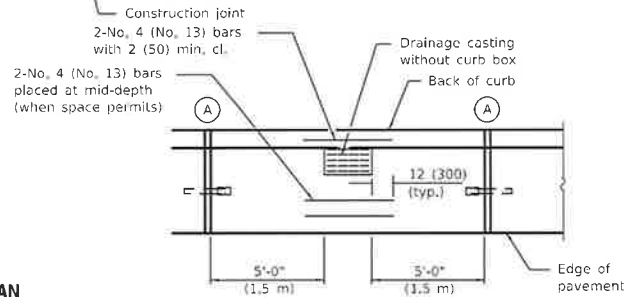
**STANDARD 606001-07**



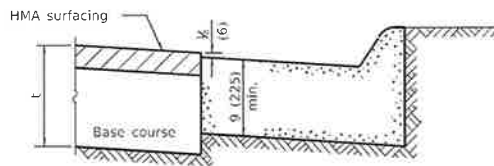
Undoweled contraction joint (typ.) construction options:

1. Form with  $\frac{3}{8}$  (3) thick steel template 2 (50) deep, and seal.
2. Saw 2 (50) deep at 4 to 24 hours, and seal.
3. Insert  $\frac{3}{8}$  (20) thick preformed joint filler full depth and width.

**PLAN**

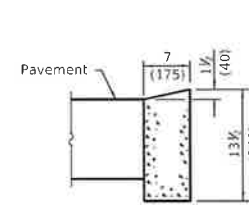


**ON DISTURBED SUBGRADE**

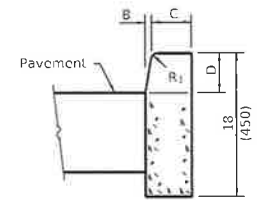


**ON UNDISTURBED SUBGRADE**

**ADJACENT TO FLEXIBLE PAVEMENT**

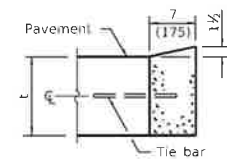


**DEPRESSED CURB**

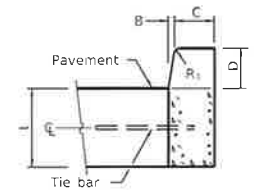


**BARRIER CURB**

**ADJACENT TO FLEXIBLE PAVEMENT**



**DEPRESSED CURB**



**BARRIER CURB**

**ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE**

**CONCRETE CURB TYPE B**

Illinois Department of Transportation

DRAWN: *Michael Brand* January 1, 2018

ENGINEER OF TRUCK AND PROCEDURES

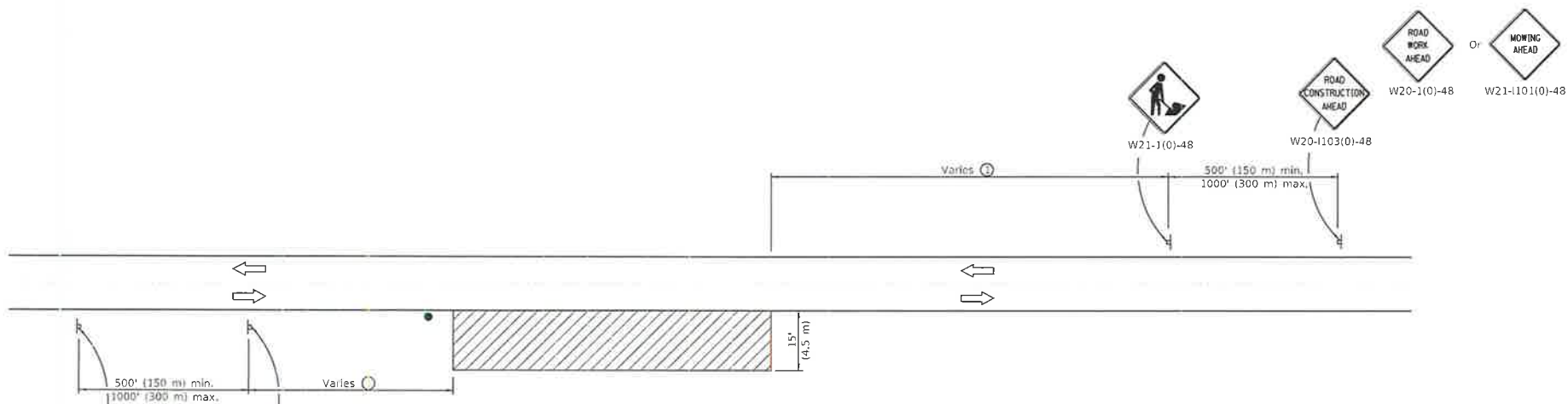
APPROVED: *Thomas W. Baker* January 1, 2018

ENGINEER OF DESIGN AND ENVIRONMENT

**CONCRETE CURB TYPE B  
AND COMBINATION  
CONCRETE CURB AND GUTTER**

(Sheet 2 of 2)

**STANDARD 606001-07**



For contract construction projects



W20-1103(0)-48



W21-1(0)-48

For maintenance and utility projects



W20-1(0)-48



W21-1101(0)-48

**TYPICAL APPLICATIONS**

Shoulder work  
Utility operations

**SYMBOLS**



Work area



Sign



Flagger with traffic control sign when required

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed 1/2 the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

**GENERAL NOTES**

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the shoulder, where the average speed is 1 mph (2 km/h) or less.

When the work operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

DESIGNED: [Signature] 7/14  
 ENGINEER OF SAFETY, ENGINEERING

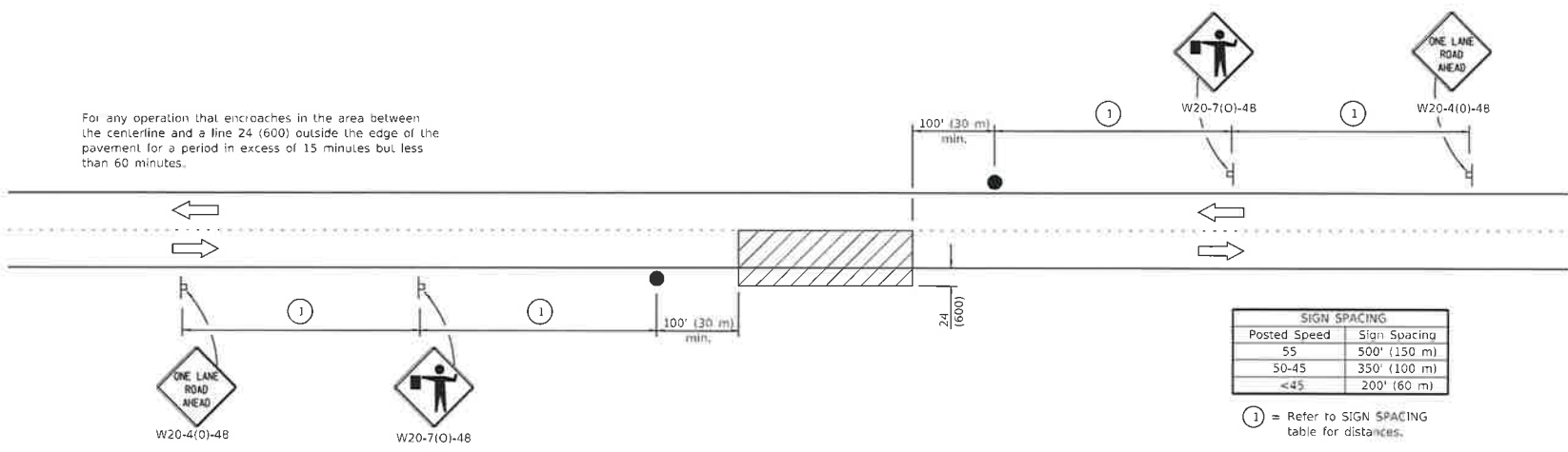
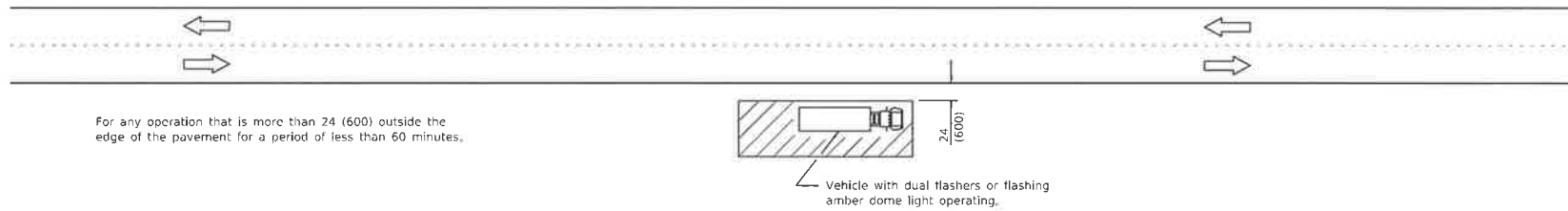
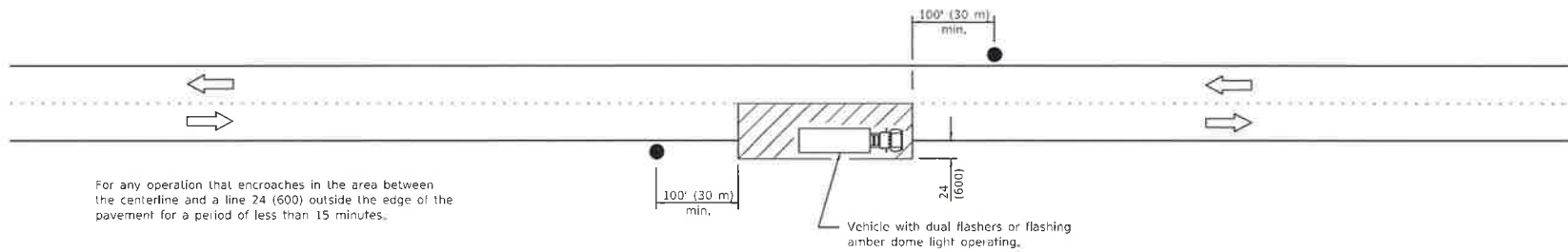
APPROVED: [Signature] 7/14  
 ENGINEER OF DESIGN AND ENVIRONMENT

DATE: 7/14

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

**OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY**

**STANDARD 701011-04**



**TYPICAL APPLICATIONS**

- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

**SYMBOLS**

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

7011

ENGINEER OF SAFETY ENGINEERING

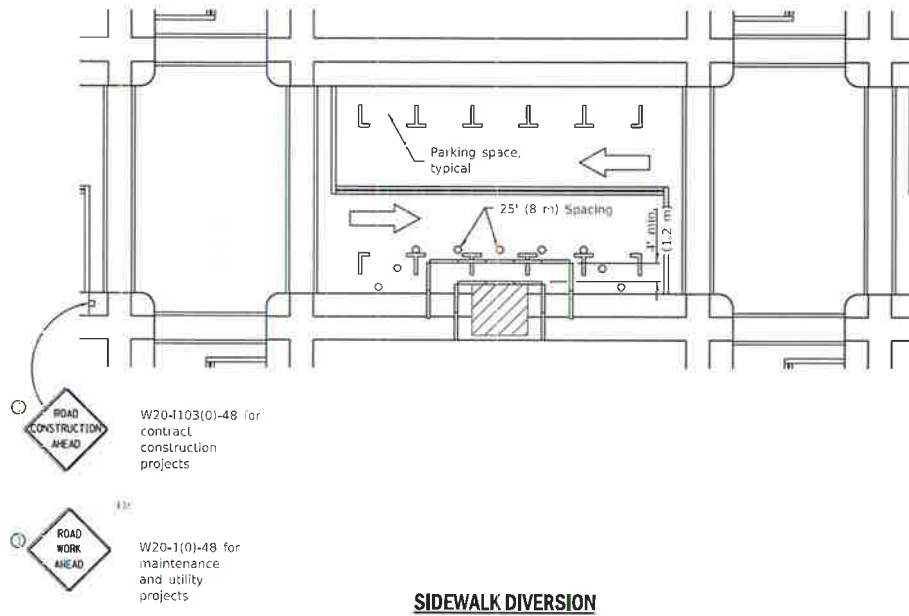
2011

ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

**LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS**

**STANDARD 701301-04**



**SIDEWALK DIVERSION**

**GENERAL NOTES**

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

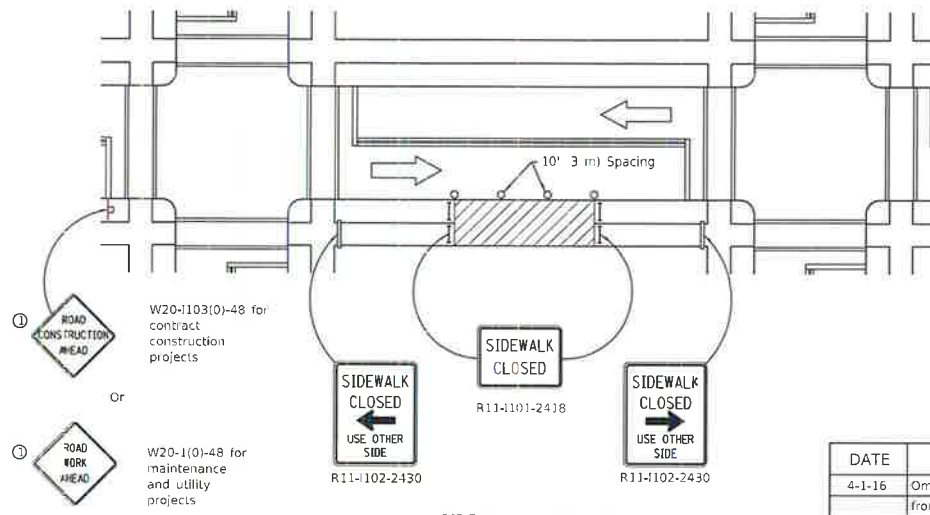
The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

**SYMBOLS**

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade



**SIDEWALK CLOSURE**

**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 1 of 2)

**STANDARD 701801-06**

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION. Modified appearance of plan views. Renamed Std.

Illinois Department of Transportation

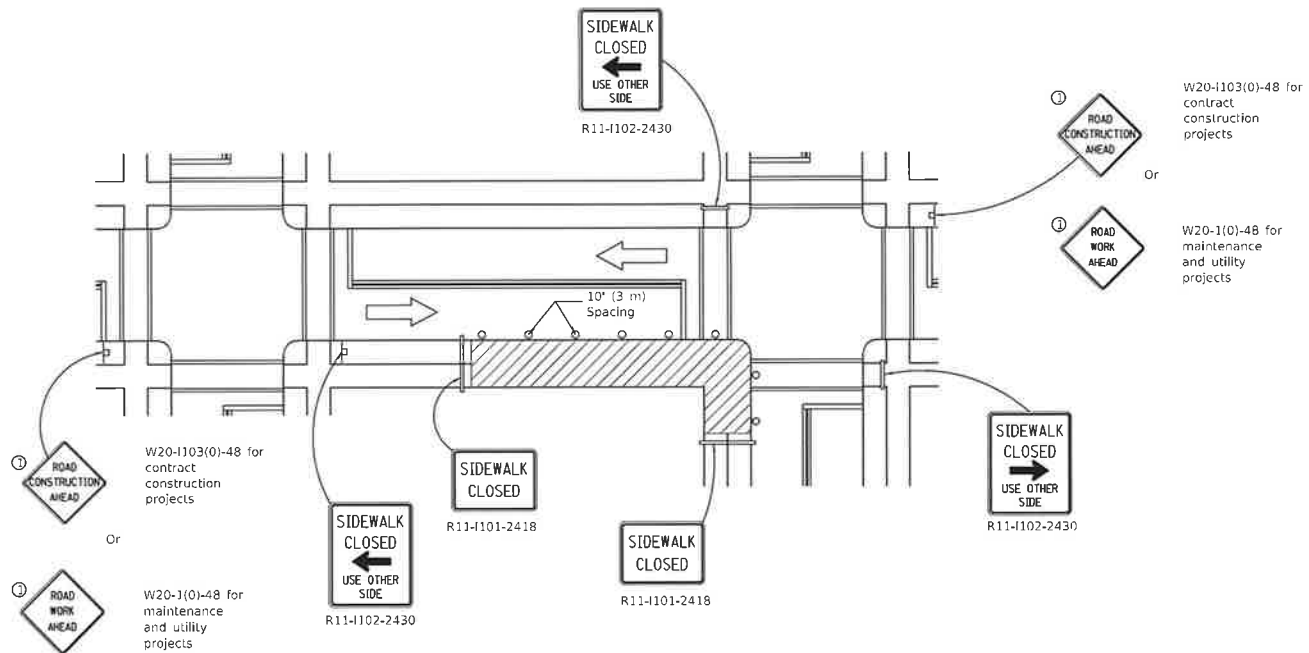
PROJECT: *Amesbury* DATE: 2018

ENGINEER OF SAFETY: *Amesbury*

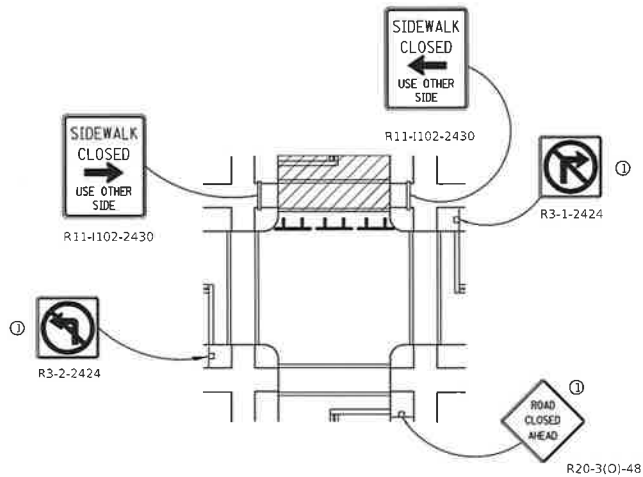
APPROVED: *Amesbury* DATE: 2018

ENGINEER OF DESIGN AND ENVIRONMENTAL: *Amesbury*

REVISED: 11/11/18



**CORNER CLOSURE**



**CROSSWALK CLOSURE**

**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

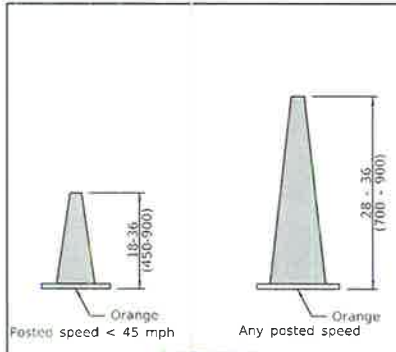
(Sheet 2 of 2)

**STANDARD 701801-06**

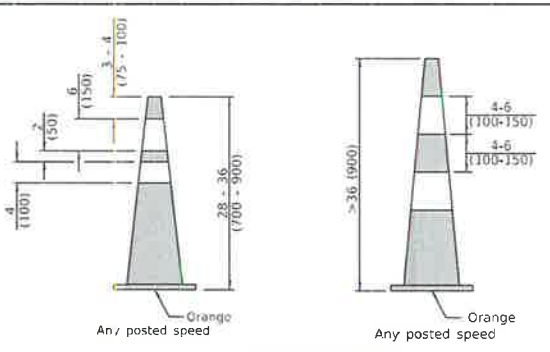
Illinois Department of Transportation

PROJECT: 2016  
 ENGINEER OF SAFETY ENGINEERING  
 APPROVED: 2016  
 ENGINEER OF DESIGN AND ENVIRONMENT

158583

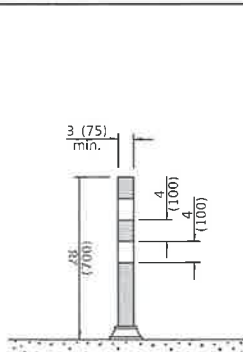


**DAYTIME USE**

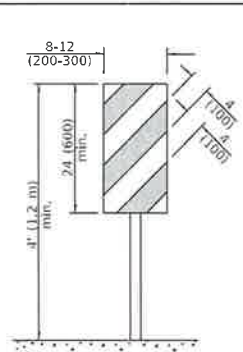


**DAY OR NIGHTTIME USE**

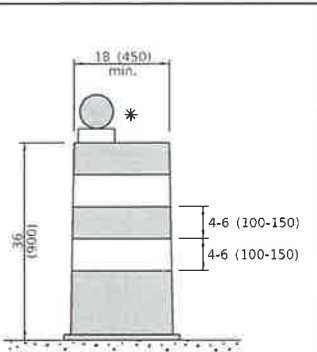
**CONES**



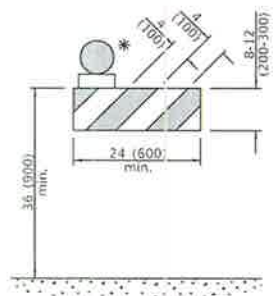
**TUBULAR MARKER**



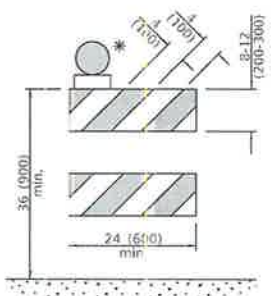
**VERTICAL PANEL  
POST MOUNTED**



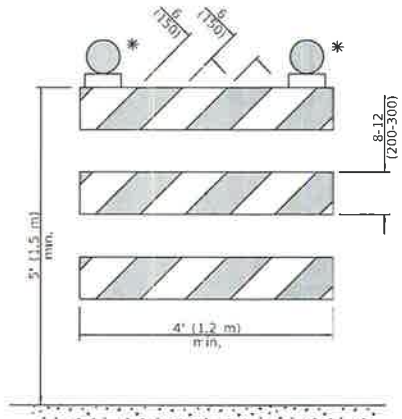
**DRUM**



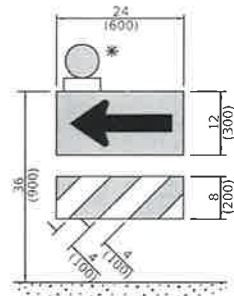
**TYPE I BARRICADE**



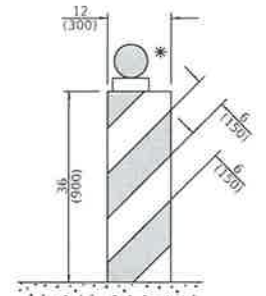
**TYPE II BARRICADE**



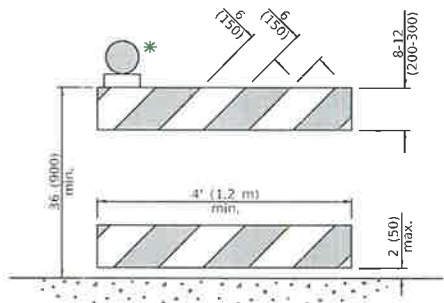
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED: *Cynthia Quinn* 2019  
ENGINEER OF SAFETY, TRAFFIC AND ENGINEERING

APPROVED: *SE/129* 2019  
ENGINEER OF TRAFFIC AND ENVIRONMENT

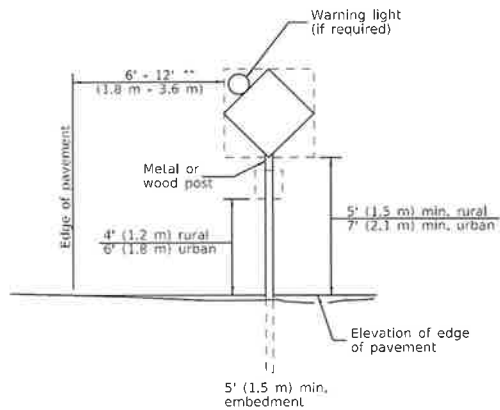
ELECT: GANSS

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 mm) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

**TRAFFIC CONTROL DEVICES**

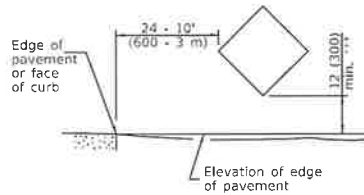
(Sheet 1 of 3)

**STANDARD 701901-08**



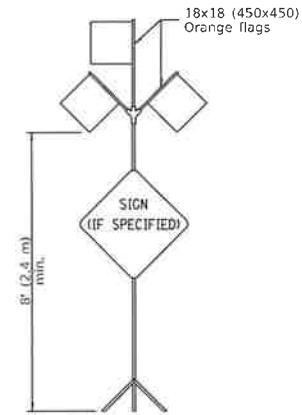
**POST MOUNTED SIGNS**

\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



**HIGH LEVEL WARNING DEVICE**

**ROAD CONSTRUCTION NEXT X MILES**  
G20-1104(0)-6036

**END CONSTRUCTION**  
G20-1105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.  
ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.  
END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).  
Dual sign displays shall be utilized on multi-lane highways.

**WORK LIMIT SIGNING**

WORK ZONE	W21-1115(0)-3618
SPEED LIMIT XX	R2-1-3648
PHOTO ENFORCED	R10-1108p-3618 ****
XXXX FINE MINIMUM	R2-1106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

**END WORK ZONE SPEED LIMIT**  
G20-1103-6036

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

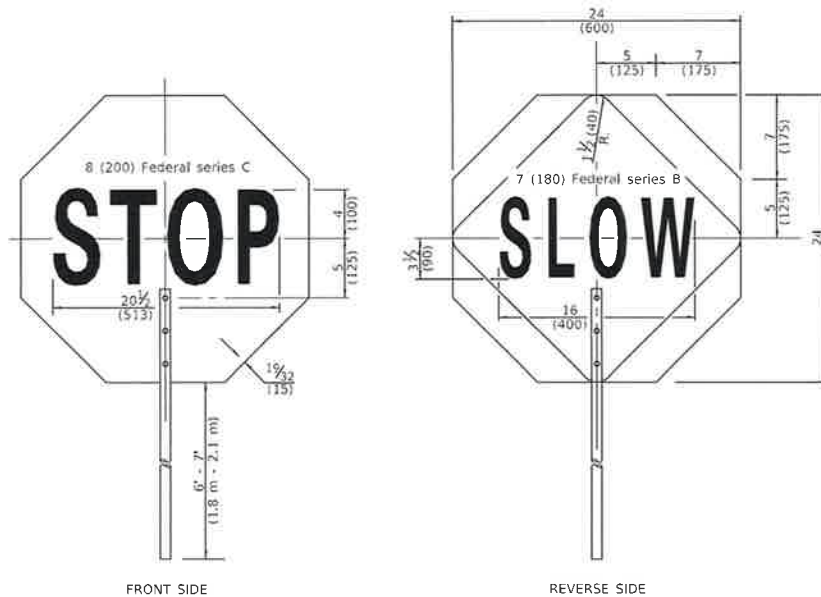
\*\*\*\* R10-1108p shall only be used along roadways under the jurisdiction of the State.



W12-1103-4848

**WIDTH RESTRICTION SIGN**

XX'-XX" width and X miles are variable.



FRONT SIDE

REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**

Illinois Department of Transportation

APPROVED January 3, 2019  
  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

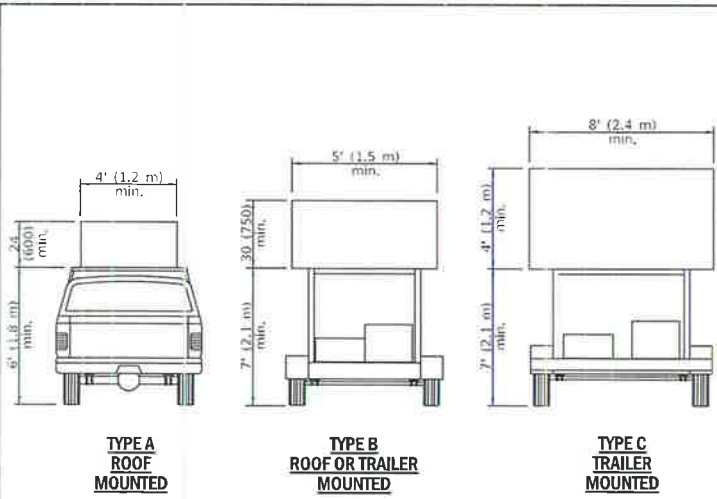
APPROVED January 3, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

11-1111-0000

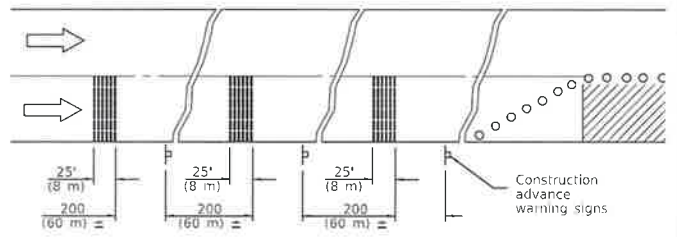
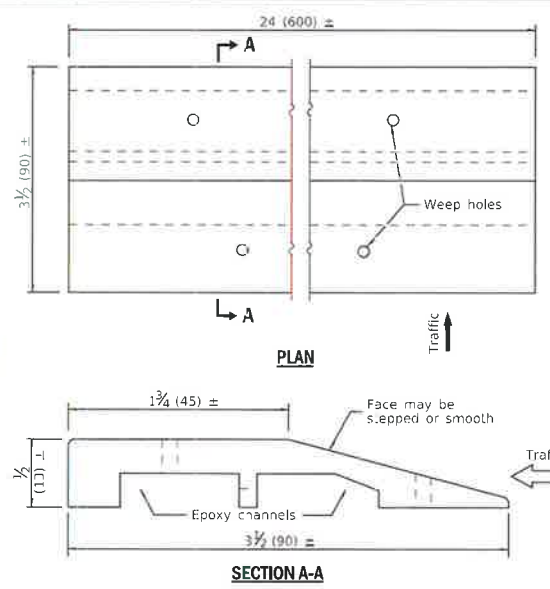
**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

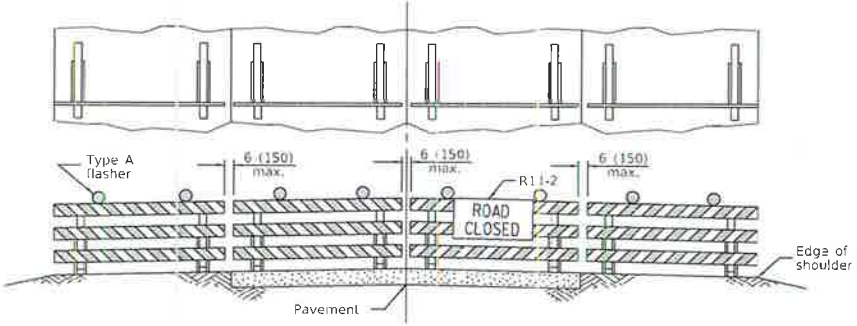
**STANDARD 701901-08**



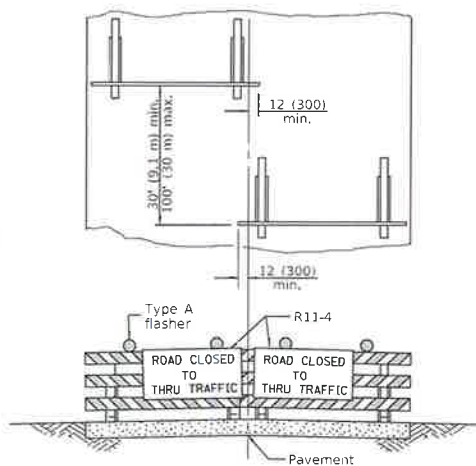
**ARROW BOARDS**



**TEMPORARY RUMBLE STRIPS**



Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.

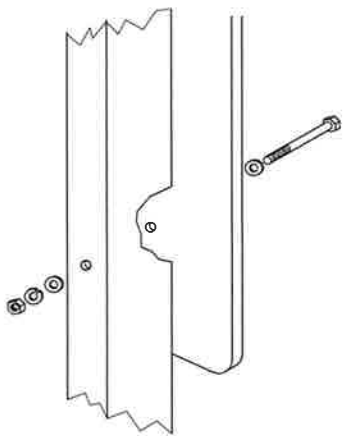


**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

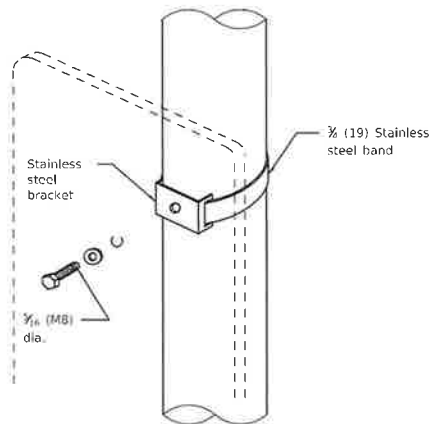
Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

**TRAFFIC CONTROL DEVICES**  
 (Sheet 3 of 3)  
**STANDARD 701901-08**

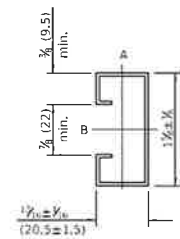
Illinois Department of Transportation  
 APPROVED: [Signature] 7/19/19  
 ENGINEER OF SAFETY, TRAFFIC AND ENVIRONMENT  
 APPROVED: [Signature] 7/19/19  
 ENGINEER OF DESIGN AND ENVIRONMENT



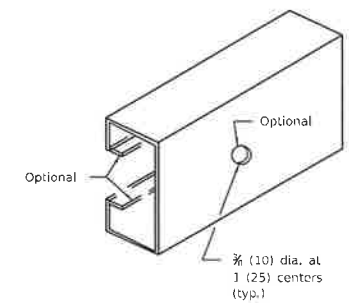
Sign panel 36 (900) wide or less



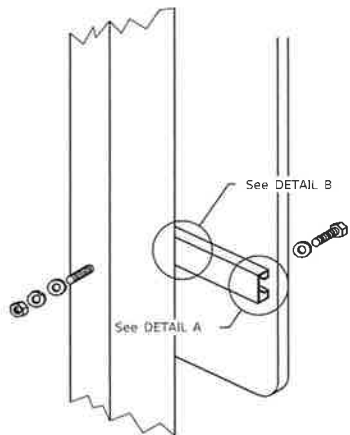
Sign panel 36 (900) wide or less



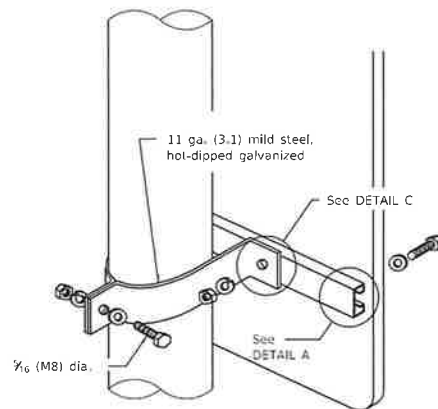
Section modulus (minimum)	Axis A	Axis B
Steel	0.050 in. <sup>3</sup> (819 mm <sup>3</sup> )	0.105 in. <sup>3</sup> (1720 mm <sup>3</sup> )
Aluminum	0.150 in. <sup>3</sup> (2458 mm <sup>3</sup> )	0.315 in. <sup>3</sup> (5162 mm <sup>3</sup> )



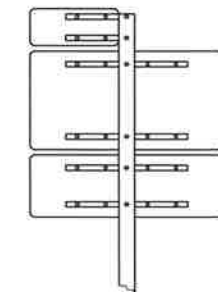
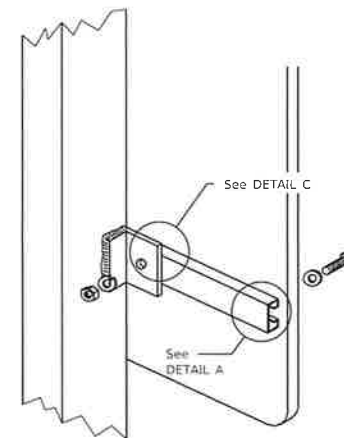
**SUPPORTING CHANNEL DETAILS**



Sign panel over 36 (900) wide



Sign panel over 36 (900) wide



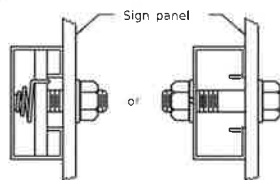
**ROUTE MARKER ASSEMBLY**

**WOOD OR TELESCOPING STEEL POSTS**

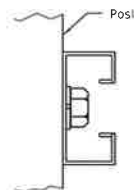
**LIGHT OR SIGNAL STANDARDS**

**BREAKAWAY STEEL TUBING POSTS**

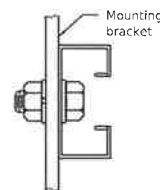
(All sign panel sizes)



**DETAIL A**



**DETAIL B**



**DETAIL C**

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Renum. Standard 2319-6.

**SIGN PANEL MOUNTING DETAILS**

**STANDARD 720001-01**

Illinois Department of Transportation

PASSED January 1, 2009

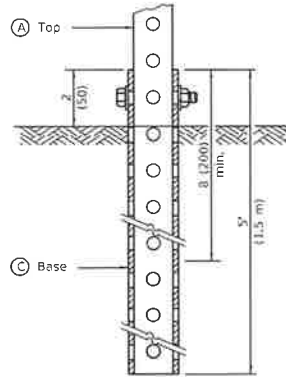
ENGINEER OF THE CATEGORY

APPROVED January 1, 2009

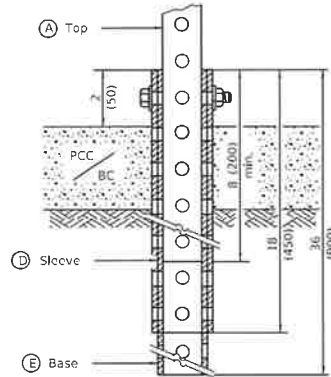
ENGINEER OF DESIGN AND ENVIRONMENT

6/11/11 04:00

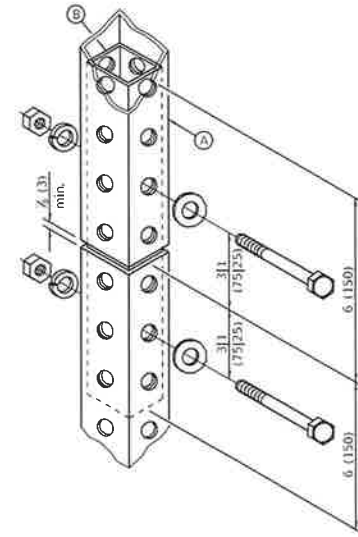




**GROUND MOUNT DETAIL**



**PAVEMENT MOUNT DETAIL**



**SPLICE DETAIL**

(A)	2 x 2 x var., (51 x 51 var.)
(B)	1 3/4 x 1 3/4 x 12 (44 x 44 x 300)
(C)	2 3/4 x 2 3/4 x 60 (57 x 57 x 1500)
(D)	2 1/2 x 2 1/2 x 18 (64 x 64 x 450)
(E)	2 1/4 x 2 1/4 x 36 (57 x 57 x 900)

**GENERAL NOTES**

All bolts 3/8" (M10) hex head zinc or cadmium plated.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	New Standard, Used to be part of Standard 720006.

**TELESCOPING STEEL SIGN SUPPORT**

**STANDARD 728001-01**

Illinois Department of Transportation

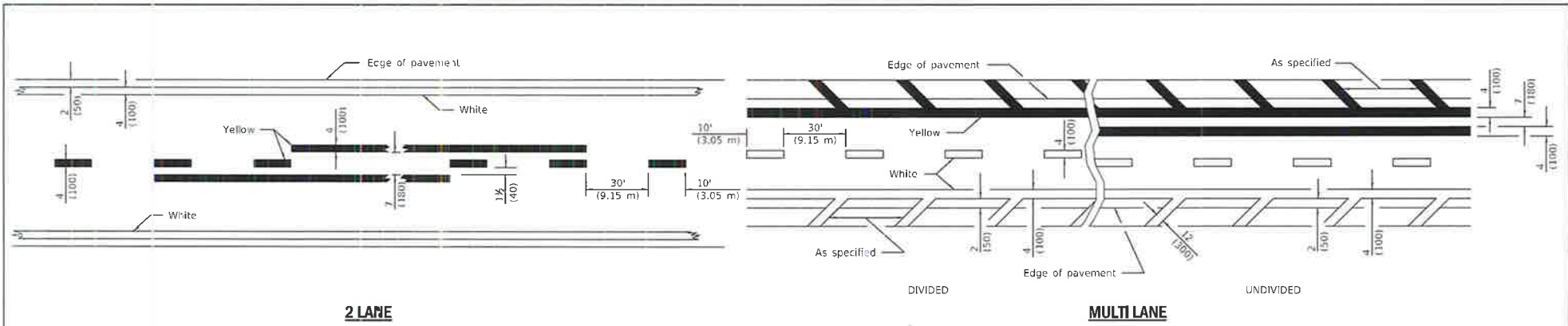
PASSFD January 1 2009

ENGINEER OF OPERATIONS

APPROVED January 1 2009

ENGINEER OF DESIGN AND ENVIRONMENT

10-1-1 08/05



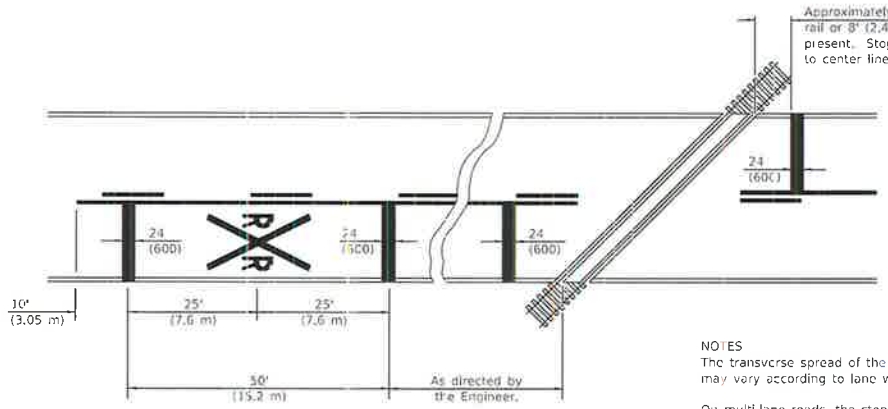
**2 LANE**

**DIVIDED**

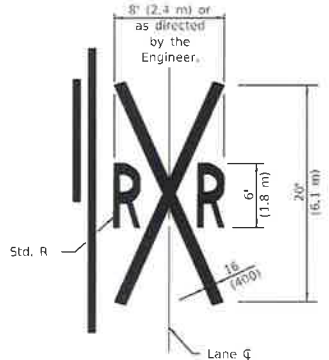
**MULTI LANE**

**UNDIVIDED**

**LANE AND EDGE LINES**



Approximately 5' (1.5 m) from nearest rail or 8' (2.4 m) back from gate, if present. Stop line placed perpendicular to center line.



**NOTES**  
 The transverse spread of the "X" may vary according to lane width.  
 On multi-lane roads, the stop lines shall extend across all approach lanes and separate RR symbols shall be placed adjacent to each other in each lane.  
 When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition B of the MUTCD.

**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-15	Added symbols. Revised bike symbol. Revised note for stop line at RR crossing.
1-1-14	Added bike symbol. Renamed "LANE DROP ARROW" detail to "LANE-REDUCTION ARROW".

**TYPICAL PAVEMENT MARKINGS**

(Sheet 1 of 3)

**STANDARD 780001-05**

Illinois Department of Transportation

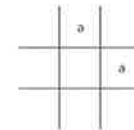
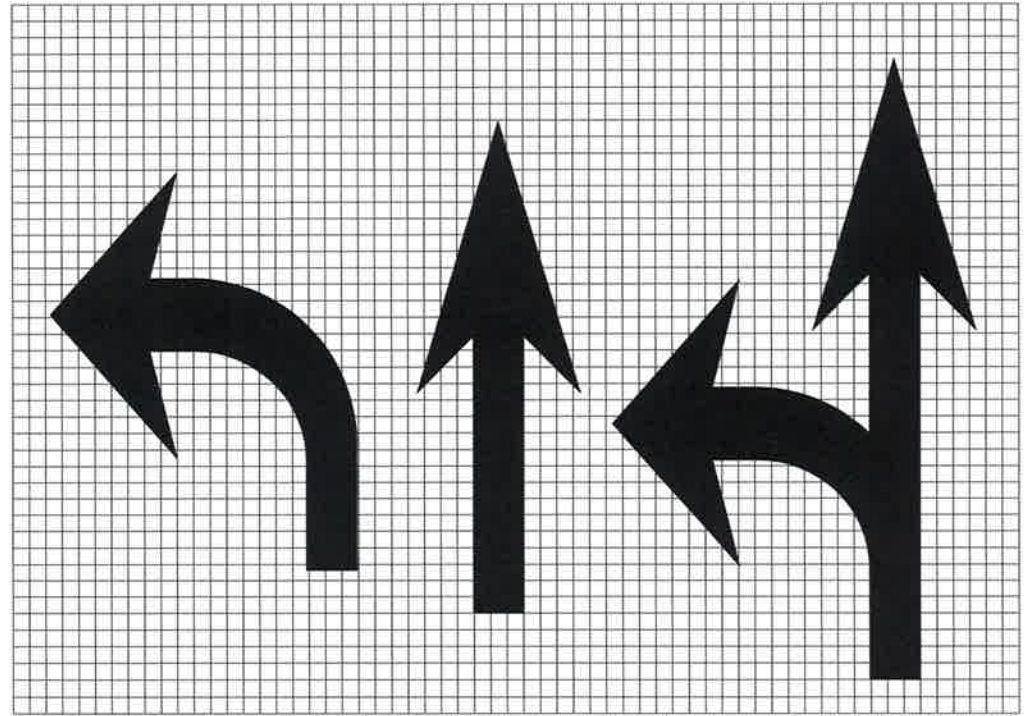
DESIGNED: [Signature] 11/15/11 3/15

ENGINEER: [Signature]

APPROVED: [Signature] 11/15/11 2013

ENGINEER OF RECORD AND ENVIRONMENTAL

STANDARD 780001-05



Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

**LETTER AND ARROW GRID SCALE**

Illinois Department of Transportation

PAVING Schedule I 2035

ENGINEER OF OPERATIONS *Amy Allen*

APPROVED SPOUSE I 2035

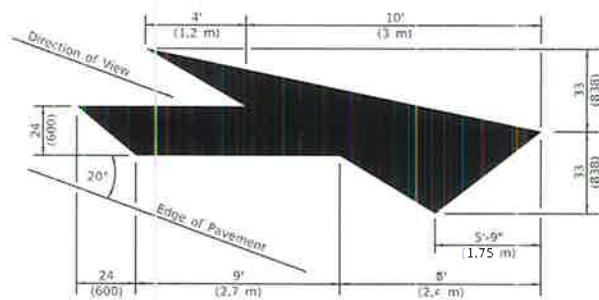
ENGINEER OF DESIGN AND ENVIRONMENT *RE*

48-11-04004

**TYPICAL PAVEMENT MARKINGS**

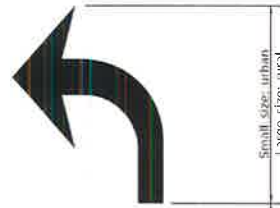
(Sheet 2 of 3)

**STANDARD 780001-05**



**LANE-REDUCTION ARROW**

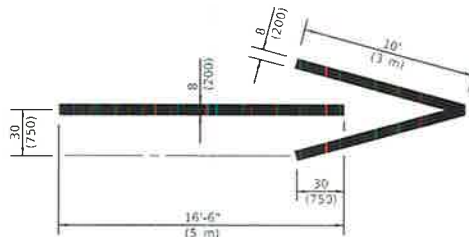
Right lane-reduction arrow shown.  
Use mirror image for left lane.



20' (6 m): urban  
50' (15 m): rural  
(Between arrow  
and word or  
between words)



**WORD AND ARROW LAYOUT**



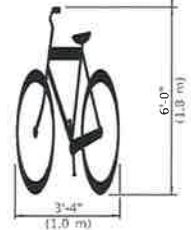
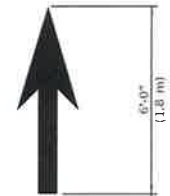
**WRONG WAY ARROW**



**INTERNATIONAL  
SYMBOL OF  
ACCESSIBILITY**



**SHARED LANE  
SYMBOL**



**BIKE SYMBOL**  
(Arrow is optional.)

Illinois Department of Transportation

PASSED: [Signature] 11/11/11 11:00 AM

ENGINEER OF INFRASTRUCTURE

APPROVED: [Signature] 11/11/11 11:00 AM

REGISTERED PROFESSIONAL ENGINEER

46-1-1 (1-11)

**TYPICAL PAVEMENT MARKINGS**

(Sheet 3 of 3)

**STANDARD 780001-05**

**PLYMOUTH STREET IMPROVEMENT PROJECT  
VILLAGE OF VILLA PARK**

**APPENDIX 3  
AMENDING THE REQUIREMENTS OF BIDDERS FOR CONSTRUCTION PROJECTS  
IRMA CONTRACTUAL INSURANCE GUIDELINES**



**Ordinance No. 3733**

**AN ORDINANCE OF THE VILLAGE OF VILLA PARK, DUPAGE COUNTY, ILLINOIS AMENDING THE REQUIREMENTS OF BIDDERS FOR CONSTRUCTION PROJECTS**

**WHEREAS**, the Village of Villa Park (the "*Village*") is a duly organized and validly existing non home-rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and,

**WHEREAS**, section 8-9-1 of the Illinois Municipal Code (65 ILCS 5/8-9-2) allows the Village to require competitive bidding after advertising for bids in the manner prescribed by ordinance; and,

**WHEREAS**, the President and Board of Trustees desire to adopt purchasing procedures to provide for additional requirements of bidders for construction projects to have active apprenticeship and training programs approved and registered with the United States Department of Labor's Bureau of Apprenticeship and Training and to have bidders show three similar projects they constructed within the last five years.

**NOW, THEREFORE, BE IT ORDAINED** by the President and Board of Trustees of the Village of Villa Park, DuPage County, Illinois, as follows:

**Section 1.** That Section 2-219 of the Villa Park Municipal Code, as amended, be and is hereby amended by placing the existing text as subsection A. and adding a new subsection B. to read as follows:

"B. A responsible bidder for the construction of public works projects shall meet and submit evidence of compliance with the following requirements:

- (1) All applicable laws prerequisite to doing business in the State of Illinois,
- (2) A federal employer tax identification number or social security number,
- (3) Provision of Section 2000(e) of Chapter 21, Title 42 of the United States Code and Federal Executive Order No. 11246 as amended by Executive Order No. 11375 (known as the Equal Opportunity Employer provisions),
- (4) Certificates of insurance indicating the following coverage's: general liability, worker's compensation, completed operations, automobile, hazardous occupation and product liability
- (5) Compliance with all provisions of the Illinois Prevailing Wage Act, including wages, medical and hospitalization insurance and retirement for those trades covered in the Act,
- (6) The bidder and all bidder's sub-contractors must participate in active apprenticeship and training programs approved and registered with the United States Department of Labor's Bureau of Apprenticeship and Training for each of the trades of work contemplated under the proposed contract,
- (7) All contractors and sub-contractors are required to file certified payrolls as specified in Illinois Public Act 94-0515, and follow all provisions of the Employee Classification Act (820 ILCS 185/1 et seq.), and

(8) All bidders must provide three (3) projects of a similar nature constructed in the immediate past five (5) years with the name, address and telephone number of the contact person having knowledge of the project along with three (3) references (name, address, and telephone number) with knowledge of the integrity and business practices of the bidder.”

**Section 2.** This Ordinance shall be in full force and effect upon its passage, approval, and publication as provided by law.

Passed this 11 day of February, 2013.

AYES: ALL

NAYS: Aiello Bulthuis

ABSENT: \_\_\_\_\_

Approved this 11 day of February, 2013.



Village President

Attest:  
Village Clerk



Published in pamphlet form:

2-11, 2013

# IRMA

## CONTRACTUAL INSURANCE GUIDELINES

### I. INSURANCE REQUIREMENTS

Contractor shall procure and maintain, for the duration of the contract, insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors.

#### MINIMUM SCOPE OF INSURANCE

Coverage shall be at least as broad as:

- A. Insurance Services Office Commercial General Liability occurrence form CG 0001 with the member named as additional insured, on a form at least as broad as the attached sample endorsement including ISO Additional Insured Endorsement CG 2010 (Exhibit A), CG 2026 (Exhibit B).

#### **CG2037 - Completed Operations – (Exhibit C)**

**Required if box is checked**  ; and

- B. Owners and Contractors Protective Liability (OCP) policy with the member as insured

**Required if box is checked**  ; and

- C. Insurance Service Office Business Auto Liability coverage form number CA 0001, Symbol 01 "Any Auto."

- D. Workers' Compensation as required by the Workers' Compensation Act of the State of Illinois and Employers' Liability insurance.

**Coverage required for employee exposure to lead, if box is checked**

- E. Builder Risk Property Coverage with member as loss payee

**Required if box is checked** .

- F. Environmental Impairment/Pollution Liability Coverage for pollution incidents as a result of a claim for bodily injury, property damage or remediation costs from an incident at, on or migrating beyond the contracted work site. Coverage shall be extended to Non-Owned Disposal sites resulting from a pollution incident at, on or mitigating beyond the site; and also provide coverage for incidents occurring during transportation of pollutants.

**Required if box is checked** .

#### MINIMUM LIMITS OF INSURANCE

Contractor shall maintain limits no less than the following, **if required under above scope**:

- A. Commercial General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, and property damage and \$1,000,000 per occurrence for personal injury. The general aggregate shall be twice the required occurrence limit. Minimum General Aggregate shall be no less than \$2,000,000 or a project/contract specific aggregate of \$1,000,000.

- B. Owners and Contractors Protective Liability (OCP): \$1,000,000 combined single limit per occurrence for bodily injury and property damage.
- C. Business Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage.
- D. Workers' Compensation and Employers' Liability: Workers' Compensation coverage with statutory limits and Employers' Liability limits of \$500,000 per accident.
- E. Builder's Risk: Shall insure against "All Risk" of physical damage, including water damage (flood and hydrostatic pressure not excluded), on a completed replacement cost basis.
- F. Environmental Impairment/Pollution Liability: \$1,000,000 combined single limit per occurrence for bodily injury, property damage and remediation costs.

**DEDUCTIBLES AND SELF-INSURED RETENTIONS**

Any deductibles or self-insured retentions must be declared to and approved by the member. At the option of the member, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the member, its officials, employees, agents and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration and defense expenses.

**OTHER INSURANCE PROVISIONS**

The policies are to contain, or be endorsed to contain, the following provisions:

**A. General Liability and Automobile Liability Coverages**

1. The member, its officials, agents, employees and volunteers are to be covered as additional insureds as respects: liability arising out of the Contractor's work, including activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, leased or used by the Contractor; or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the member, its officials, agents, employees and volunteers.
2. The Contractor's insurance coverage shall be primary as respects the member, its officials, employees, agents and volunteers. Any insurance or self-insurance maintained by the member, its officials, agents, employees and volunteers shall be excess of Contractor's insurance and shall not contribute with it.
3. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the member, its officials, employees, agents and volunteers.
4. The Contractor's insurance shall contain a Severability of Interests/Cross Liability clause or language stating that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
5. If any commercial general liability insurance is being provided under an excess

or umbrella liability policy that does not "follow form," then the Contractor shall be required to name the member, its officials, employees, agents and volunteers as additional insureds.

6. All general liability coverages shall be provided on an occurrence policy form. Claims-made general liability policies will not be accepted.
7. The contractor and all subcontractors hereby agree to waive any limitation as to the amount of contribution recoverable against them by member. This specifically includes any limitation imposed by any state statute, regulation, or case law including any Workers' Compensation Act provision that applies a limitation to the amount recoverable in contribution such as Kotecki v. Cyclops Welding.

**B. Workers' Compensation and Employers' Liability Coverage**

The insurer shall agree to waive all rights of subrogation against the member, its officials, employees, agents and volunteers for losses arising from work performed by Contractor for the municipality.

1. NCCI Alternate Employer Endorsement (WC 000301) in place to insure that workers' compensation coverage applies under contractor's coverage rather than member's if the member is borrowing, leasing or in day to day control of contractor's employee.

**Required if box is checked** .

**C. Professional Liability (Required if box is checked**

1. Professional liability insurance with limits not less than \$1,000,00 each claim with respect to negligent acts, errors and omissions in connection with professional services to be provided under the contract, with a deductible not-to-exceed \$50,000 without prior written approval.
2. If the policy is written on a claims-made form, the retroactive date must be equal to or preceding the effective date of the contract. In the event the policy is cancelled, non-renewed or switched to an occurrence form, the Contractor shall be required to purchase supplemental extending reporting period coverage for a period of not less than three (3) years.
3. Provide a certified copy of actual policy for review.
4. Recommended Required Coverage (architect, engineer, surveyor, consultant): Professional liability insurance that provides indemnification and defense for injury or damage arising out of acts, errors, or omissions in providing the following professional services, but not limited to the following:
  - a. Preparing, approving or failure to prepare or approve maps, drawings, opinions, report, surveys, change orders, designs or specifications;
  - b. Providing direction, instruction, supervision, inspection, engineering services or failing to provide them, if that is the primary cause of injury or damage.

**D. All Coverages**

Each insurance policy required shall have the member expressly endorsed onto the policy as a Cancellation Notice Recipient. Should any of the policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

### **ACCEPTABILITY OF INSURERS**

Insurance is to be placed with insurers with a Best's rating of no less than A-, VII and licensed to do business in the State of Illinois.

### **VERIFICATION OF COVERAGE**

Contractor shall furnish the member with certificates of insurance naming the member, its officials, employees, agents and volunteers as additional insureds (Exhibit D), and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be received and approved by the member before any work commences. The following additional insured endorsements may be utilized: ISO Additional Insured Endorsements CG 2010 (Exhibit A) or CG 2026 (Exhibit B), and CG 2037 (Exhibit C) – Completed Operations, where required. The member reserves the right to request full certified copies of the insurance policies and endorsements.

### **SUBCONTRACTORS**

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

### **ASSUMPTION OF LIABILITY**

The contractor assumes liability for all injury to or death of any person or persons including employees of the contractor, any sub-contractor, any supplier or any other person and assumes liability for all damage to property sustained by any person or persons occasioned by or in any way arising out of any work performed pursuant to this agreement.

## **II. INDEMNITY/HOLD HARMLESS PROVISION**

To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify and hold harmless the member, its officials, employees and agents against all injuries, deaths, loss, damages, claims, patent claims, suits, liabilities, judgments, cost and expenses, which may in anywise accrue against the member, its officials, agents and employees, arising in whole or in part or in consequence of the performance of this work by the Contractor, its employees, or subcontractors, or which may in anywise result therefore, except that arising out of the sole legal cause of the member, its employees or agents, the Contractor shall, at its own expense, appear, defend and pay all charges of attorneys and all costs and other expenses arising therefore or incurred in connections therewith, and, if any judgment shall be rendered against the member, its officials, employees and agents, in any such action, the Contractor shall, at its own expense, satisfy and discharge the same.

Contractor expressly understands and agrees that any performance bond or insurance policies required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the member, its

officials, employees and agents as herein provided.

The Contractor further agrees that to the extent that money is due the Contractor by virtue of this contract as shall be considered necessary in the judgment of the member, may be retained by the member to protect itself against said loss until such claims, suits, or judgments shall have been settled or discharged and/or evidence to that effect shall have been furnished to the satisfaction of the member.

### **III. SAFETY/LOSS PREVENTION**

#### **Safety/Loss Prevention Program Requirements**

- Successful bidder will provide written confirmation that a safety/loss prevention program was in place at least 90 days prior to submitting the bid proposal.
- Evidence of completed employee safety training can be provided.

#### **Regulatory Requirements**

- Successful bidder must comply with all applicable laws, regulations, and rules promulgated by any Federal, State, County, Municipal and/or other governmental unit or regulatory body now in effect or which may be in effect during the performance of the work. Included within the scope of the laws, regulations, and rules referred to in this paragraph but in no way to operate as a limitation, are Occupational Safety & Health Act (OSHA), Illinois Department of Labor (IDOL), Department of Transportation, all forms of traffic regulations, public utility, Intrastate and Interstate Commerce Commission regulations, Workers' Compensation Laws, Prevailing Wage Laws, the Social Security Act of the Federal Government and any of its titles, the Illinois Department of Human Rights, Human Rights Commission, or EEOC statutory provisions and rules and regulations.
- Evidence of specific regulatory compliance will be provided by bidder, if required by owner.

EXHIBIT A

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY  
CG 20 10 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR  
CONTRACTORS – SCHEDULED PERSON OR  
ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location(s) Of Covered Operations
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

**A. Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

**B.** With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This Insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.



**EXHIBIT B**

POLICY NUMBER:

**COMMERCIAL GENERAL LIABILITY  
CG 20 26 07 04**

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED – DESIGNATED  
PERSON OR ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE**

Name Of Additional Insured Person(s) Or Organization(s)
SAMPLE
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

**Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

- A. In the performance of your ongoing operations; or
- B. In connection with your premises owned by or rented to you.

**EXHIBIT  
C**

POLICY NUMBER:

**COMMERCIAL GENERAL LIABILITY  
CG 20 37 07 04**

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED – OWNERS, LESSEES OR  
CONTRACTORS – COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE**

<b>Name Of Additional Insured Person(s) Or Organization(s):</b>	<b>Location And Description Of Completed Operations</b>
<b>EXAMPLE</b>	
<b>Information required to complete this Schedule, if not shown above, will be shown in the Declarations.</b>	

**Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".





**PLYMOUTH STREET IMPROVEMENT PROJECT  
VILLAGE OF VILLA PARK**

**APPENDIX 4  
SWPPP & IEPA FORMS**





Route PLYMOUTH STREET  
Section \_\_\_\_\_  
County DUPAGE

Marked Rte. \_\_\_\_\_  
Project No. \_\_\_\_\_  
Contract No. \_\_\_\_\_

This plan has been prepared to comply with the provisions of the National Pollutant Discharge Elimination System (NPDES) Permit No. ILR10 (Permit ILR10), issued by the Illinois Environmental Protection Agency (IEPA) for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Michael Guerra, P.E.  
Print Name  
Public Works Director  
Title  
Village of Villa Park  
Agency

\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Date

**I. Site Description:**

A. Provide a description of the project location (include latitude and longitude):

The proposed improvements are located on Plymouth Street between Ardmore Avenue and Villa Avenue in the Village of Villa Park. (Latitude 41°53'19.8", Longitude 87°58'44.9").

B. Provide a description of the construction activity which is the subject of this plan:

The Plymouth Street Improvement Project consists of various roadway improvement methods including hot-mix asphalt (HMA) resurfacing and HMA pavement reconstruction. Roadways consisting of pavement resurfacing will have pavement patching and spot curb and gutter replacement based on field conditions. The pavement reconstruction areas will be composed of 2" HMA surface course, 4" HMA binder course, and 6" aggregate base course supported on geotechnical fabric. In addition, there will be sidewalk replacement at intersections to meet the Public Right-of-Way Accessibility Guidelines (PROWAG), driveway reconstruction, drainage and utility improvements, pavement markings, signing, erosion & sediment control, landscaping, and all collateral work necessary to complete the project.

C. Provide the estimated duration of this project:

This project will be under construction for approximately 2 months.

D. The total area of the construction site is estimated to be 3.8 acres.

The total area of the site estimated to be disturbed by excavation, grading or other activities is 2.4 acres.

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

C=0.65

F. List all soils found within project boundaries. Include map unit name, slope information, and erosivity:

See the attached NRCS Soil Maps.

G. Provide an aerial extent of wetland acreage at the site:

Not Applicable

H. Provide a description of potentially erosive areas associated with this project:

This project is located throughout residential areas of the Village. There are little to no concerns with erosive areas because there is typically no more than 10' of impact to the parkways where curb and gutter is being replaced.

I. The following is a description of soil disturbing activities by stages, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):

The proposed profiles are designed to match the existing profiles of the various roadways which are relatively flat. The roadway slopes range from 0.3% to 3%. The parkway cross-slopes range from 1% to 8%.

J. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands) and locations where storm water is discharged to surface water including wetlands.

K. Identify who owns the drainage system (municipality or agency) this project will drain into:

Storm sewer system is operated and owned by the Village of Villa Park.

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

Village of Villa Park

M. The following is a list of receiving water(s) and the ultimate receiving water(s) for this site. The location of the receiving waters can be found on the erosion and sediment control plans:

All runoff is drained by closed storm sewer systems which eventually outlet into Sugar Creek.

N. Describe areas of the site that are to be protected or remain undisturbed. These areas may include steep slopes, highly erodible soils, streams, stream buffers, specimen trees, natural vegetation, nature preserves, etc.

All existing trees and other mature vegetation will be protected by the use of temporary fence. The Contractor is to follow the applicable erosion and sediment control requirements of the Illinois Urban Manual.

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

- Floodplain
- Wetland Riparian
- Threatened and Endangered Species
- Historic Preservation
- 303(d) Listed receiving waters for suspended solids, turbidity, or siltation
- Receiving waters with Total Maximum Daily Load (TMDL) for sediment, total suspended solids, turbidity or siltation
- Applicable Federal, Tribal, State or Local Programs
- Other

1. 303(d) Listed receiving waters (fill out this section if checked above):

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

b. Provide a description of how erosion and sediment control practices will prevent a discharge of sediment resulting from a storm event equal to or greater than a twenty-five (25) year, twenty-four (24) hour rainfall event:

- c. Provide a description of the location(s) of direct discharge from the project site to the 303(d) water body:
- d. Provide a description of the location(s) of any dewatering discharges to the MS4 and/or water body:

2. TMDL (fill out this section if checked above)

- a. The name(s) of the listed water body:
- b. Provide a description of the erosion and sediment control strategy that will be incorporated into the site design that is consistent with the assumptions and requirements of the TMDL:
- c. If a specific numeric waste load allocation has been established that would apply to the project's discharges, provide a description of the necessary steps to meet that allocation:

P. The following pollutants of concern will be associated with this construction project:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Soil Sediment             | <input checked="" type="checkbox"/> Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids) |
| <input checked="" type="checkbox"/> Concrete                  | <input checked="" type="checkbox"/> Antifreeze / Coolants  |
| <input checked="" type="checkbox"/> Concrete Truck Waste      | <input checked="" type="checkbox"/> Waste water from cleaning construction equipment               |
| <input checked="" type="checkbox"/> Concrete Curing Compounds | <input type="checkbox"/> Other (specify)   |
| <input type="checkbox"/> Solid Waste Debris                   | <input type="checkbox"/> Other (specify)   |
| <input type="checkbox"/> Paints                               | <input type="checkbox"/> Other (specify)   |
| <input type="checkbox"/> Solvents                             | <input type="checkbox"/> Other (specify)   |
| <input checked="" type="checkbox"/> Fertilizers / Pesticides  | <input type="checkbox"/> Other (specify)   |

**II. Controls:**

This section of the plan addresses the controls that will be implemented for each of the major construction activities described in I.C. above and for all use areas, borrow sites, and waste sites. For each measure discussed, the Contractor will be responsible for its implementation as indicated. The Contractor shall provide to the Resident Engineer a plan for the implementation of the measures indicated. The Contractor, and subcontractors, will notify the Resident Engineer of any proposed changes, maintenance, or modifications to keep construction activities compliant with the Permit ILR10. Each such Contractor has signed the required certification on forms which are attached to, and are a part of, this plan:

- A. **Erosion and Sediment Controls:** At a minimum, controls must be coordinated, installed and maintained to:
  1. Minimize the amount of soil exposed during construction activity;
  2. Minimize the disturbance of steep slopes;
  3. Maintain natural buffers around surface waters, direct storm water to vegetated areas to increase sediment removal and maximize storm water infiltration, unless infeasible;
  4. Minimize soil compaction and, unless infeasible, preserve topsoil.
- B. **Stabilization Practices:** Provided below is a description of interim and permanent stabilization practices, including site- specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in II(B)(1) and II(B)(2), stabilization measures shall be initiated **immediately** where construction activities have temporarily or permanently ceased, but in no case more than **one (1) day** after the construction activity in that portion of the site has temporarily or permanently ceases on all disturbed portions of the site where construction will not occur for a period of fourteen (14) or more calendar days.

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

The following stabilization practices will be used for this project:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Preservation of Mature Vegetation | <input type="checkbox"/> Erosion Control Blanket / Mulching |
| <input type="checkbox"/> Vegetated Buffer Strips                      | <input checked="" type="checkbox"/> Sodding                 |
| <input checked="" type="checkbox"/> Protection of Trees               | <input type="checkbox"/> Geotextiles                        |
| <input checked="" type="checkbox"/> Temporary Erosion Control Seeding | <input type="checkbox"/> Other (specify)                    |
| <input type="checkbox"/> Temporary Turf (Seeding, Class 7)            | <input type="checkbox"/> Other (specify)                    |
| <input type="checkbox"/> Temporary Mulching                           | <input type="checkbox"/> Other (specify)                    |
| <input type="checkbox"/> Permanent Seeding                            | <input type="checkbox"/> Other (specify)                    |

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

Protection of Trees and Mature Vegetation – Prior to the start of any construction activities, tree pruning and tree root pruning will take place within the construction area. In addition, temporary fence will be placed around all existing trees and mature vegetation within and near the work zone to prevent any damage as directed by the Engineer.

Temporary Erosion Control Seeding – This item will be applied to all bare soil areas every seven days to minimize the amount of exposed surface areas.

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

Sodding – This item will be placed according to the landscaping plans at the end of each major stage of construction to permanently stabilize the disturbed areas.

- C. **Structural Practices:** Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The following structural practices will be used for this project:

- |  |  |
|--|--|
| <input type="checkbox"/> Perimeter Erosion Barrier               | <input type="checkbox"/> Rock Outlet Protection  |
| <input type="checkbox"/> Temporary Ditch Check                   | <input type="checkbox"/> Riprap                  |
| <input checked="" type="checkbox"/> Storm Drain Inlet Protection | <input type="checkbox"/> Gabions                 |
| <input type="checkbox"/> Sediment Trap                           | <input type="checkbox"/> Slope Mattress          |
| <input type="checkbox"/> Temporary Pipe Slope Drain              | <input type="checkbox"/> Retaining Walls         |
| <input type="checkbox"/> Temporary Sediment Basin                | <input type="checkbox"/> Slope Walls             |
| <input type="checkbox"/> Temporary Stream Crossing               | <input type="checkbox"/> Concrete Revetment Mats |
| <input type="checkbox"/> Stabilized Construction Exits           | <input type="checkbox"/> Level Spreaders         |
| <input type="checkbox"/> Turf Reinforcement Mats                 | <input type="checkbox"/> Other: (specify)        |
| <input type="checkbox"/> Permanent Check Dams                    | <input type="checkbox"/> Other: (specify)        |
| <input type="checkbox"/> Permanent Sediment Basin                | <input type="checkbox"/> Other: (specify)        |
| <input type="checkbox"/> Aggregate Ditch                         | <input type="checkbox"/> Other: (specify)        |
| <input type="checkbox"/> Paved Ditch                             | <input type="checkbox"/> Other (specify)         |

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

Storm Drain Inlet Protection – Inlet filters will be used in all open grate structures within the project area to prevent silt and sediment from entering the drainage system.

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

**D. Treatment Chemicals**

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

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

**E. Permanent Storm Water Management Controls:** Provided below is a description of measures that will be installed during the construction process to control volume and pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

1. Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).

The practices selected for implementation were determined on the basis of the technical guidance in Chapter 41 (Construction Site Storm Water Pollution Control) of the IDOT Bureau of Design and Environment Manual. If practices other than those discussed in Chapter 41 are selected for implementation or if practices are applied to situations different from those covered in Chapter 41, the technical basis for such decisions will be explained below.

2. Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

Description of permanent storm water management controls:

Not applicable because detention not required.

**F. Approved State or Local Laws:** The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI, to be authorized to discharge under the Permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials:

All practices and procedures shall be in accordance with the IDOT Standard Specifications for Road and Bridge Construction, IDOT Supplemental Specifications and Recurring Special Provisions, SWCD Illinois Urban Manual, and the special provisions and details shown in the Plans.

**G. Contractor Required Submittals:** Prior to conducting any professional services at the site covered by this plan, the Contractor and each subcontractor responsible for compliance with the permit shall submit to the Resident Engineer a Contractor Certification Statement, BDE 2342a.

1. The Contractor shall provide a construction schedule containing an adequate level of detail to show major activities with implementation of pollution prevention BMPs, including the following items:

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

### III. Maintenance:

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

#### **IV. Inspections:**

Qualified personnel shall inspect disturbed areas of the construction site which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site using IDOT Storm Water Pollution Prevention Plan Erosion Control Inspection Report (BC 2259). Such inspections shall be conducted at least once every seven (7) calendar days and within twenty-four (24) hours of the end of a storm or by the end of the following business or work day that is 0.5 inch or greater or equivalent snowfall.

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

If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer shall notify the appropriate IEPA Field Operations Section office by email at: [epa.swnoncomp@illinois.gov](mailto:epa.swnoncomp@illinois.gov), telephone or fax within twenty-four (24) hours of the incident. The Resident Engineer shall then complete and submit an "Incidence of Non-Compliance" (ION) report for the identified violation within five (5) days of the incident. The Resident Engineer shall use forms provided by IEPA and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of non-compliance shall be signed by a responsible authority in accordance with Part VI. G of the Permit ILR10.

The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Attn: Compliance Assurance Section  
1021 North Grand East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Additional Inspections Required:

#### **V. Failure to Comply:**

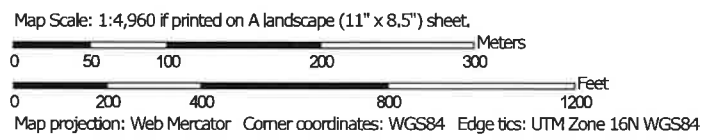
Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of a National Pollutant Discharge Elimination System/Erosion and Sediment Control Deficiency Deduction against the Contractor and/or penalties under the Permit ILR10 which could be passed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



Custom Soil Resource Report  
 Map—Hydrologic Soil Group (PLYMOUTH STREET)




Soil Map may not be valid at this scale.











### MAP LEGEND

**Area of Interest (AOI)**









 Area of Interest (AOI)

**Soils**

**Soil Rating Polygons**





-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

**Soil Rating Lines**

-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

**Soil Rating Points**

-  A
-  A/D
-  B
-  B/D

-  C
-  C/D
-  D
-  Not rated or not available

**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

**Warning: Soil Map may not be valid at this scale.**

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: DuPage County, Illinois  
 Survey Area Data: Version 14, Sep 12, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 10, 2016—Oct 8, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

**Table—Hydrologic Soil Group (PLYMOUTH STREET)**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
232A	Ashkum silty clay loam, 0 to 2 percent slopes	C/D	0.7	3.2%
830	Landfills		0.0	0.2%
854B	Markham-Ashkum-Beecher complex, 1 to 6 percent slopes	C/D	22.1	96.6%
<b>Totals for Area of Interest</b>			<b>22.8</b>	<b>100.0%</b>

**Rating Options—Hydrologic Soil Group (PLYMOUTH STREET)**

*Aggregation Method: Dominant Condition*

*Component Percent Cutoff: None Specified*

*Tie-break Rule: Higher*





# Illinois Environmental Protection Agency

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

## Division of Water Pollution Control Notice of Intent (NOI) for General Permit to Discharge Storm Water Associated with Construction Site Activities

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.*

For Office Use Only

### OWNER INFORMATION

Permit No. ILR10 \_\_\_\_\_

Company/Owner Name: Village of Villa Park, DuPage County, Illinois

Mailing Address: 11 West Home Avenue Phone: (630) 834-8505

City: Villa Park State: IL Zip: 60181 Fax: (630) 834-8509

Contact Person: Michael Guerra, P.E. E-mail: mguerra@invillapark.com

Owner Type (select one) City

MS4 Community:  Yes  No

### CONTRACTOR INFORMATION

Contractor Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ Phone: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Fax: \_\_\_\_\_

### CONSTRUCTION SITE INFORMATION

Select One:  New  Change of information for: ILR10 \_\_\_\_\_

Project Name: Plymouth Street Improvement Project County: DuPage

Street Address: Ardmore Avenue to Villa Avenue City: Villa Park IL Zip: 60181

Latitude: 41 53 20 Longitude: -87 58 45 Various 39N 11E  
(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

Approximate Construction Start Date \_\_\_\_\_ Approximate Construction End Date \_\_\_\_\_

Total size of construction site in acres: 2.4

If less than 1 acre, is the site part of a larger common plan of development?

Yes  No

Fee Schedule for Construction Sites:  
Less than 5 acres - \$250  
5 or more acres - \$750

### STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Has the SWPPP been submitted to the Agency?  Yes  No

(Submit SWPPP electronically to: [epa.constilr10swppp@illinois.gov](mailto:epa.constilr10swppp@illinois.gov))

Location of SWPPP for viewing: Address: \_\_\_\_\_ City: \_\_\_\_\_

SWPPP contact information: \_\_\_\_\_ Inspector qualifications: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Project inspector, if different from above \_\_\_\_\_ Inspector qualifications: \_\_\_\_\_

Inspector's Name: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

**TYPE OF CONSTRUCTION (select one)**Construction Type Transportation

SIC Code: \_\_\_\_\_

Type a detailed description of the project:

The Plymouth Street Improvement Project consists of various roadway improvement methods including hot-mix asphalt (HMA) resurfacing and HMA pavement reconstruction. Roadway sections consisting of pavement resurfacing will have pavement patching and spot curb and gutter replacement based on field conditions. The pavement reconstruction areas will be composed of 2" HMA surface course, 4" HMA binder course, and 6" aggregate base course supported on geotechnical fabric.

**HISTORIC PRESERVATION AND ENDANGERED SPECIES COMPLIANCE**

Has the project been submitted to the following state agencies to satisfy applicable requirements for compliance with Illinois law on:

Historic Preservation Agency  Yes  No

Endangered Species  Yes  No

**RECEIVING WATER INFORMATION**

Does your storm water discharge directly to:  Waters of the State or  Storm Sewer

Owner of storm sewer system: Village of Villa Park

Name of closest receiving water body to which you discharge: Sugar Creek

Mail completed form to: Illinois Environmental Protection Agency  
 Division of Water Pollution Control  
 Attn: Permit Section  
 Post Office Box 19276  
 Springfield, Illinois 62794-9276  
 or call (217) 782-0610  
 FAX: (217) 782-9891

Or submit electronically to: [epa.constilr10swppp@illinois.gov](mailto:epa.constilr10swppp@illinois.gov)

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a storm water pollution prevention plan and a monitoring program plan, will be complied with.

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

\_\_\_\_\_  
 Owner Signature:

\_\_\_\_\_  
 Date:

Vydas Juskelis, P.E.

\_\_\_\_\_  
 Director of Public Works

\_\_\_\_\_  
 Printed Name:

\_\_\_\_\_  
 Title:

**INSTRUCTIONS FOR COMPLETION OF CONSTRUCTION ACTIVITY NOTICE OF INTENT (NOI) FORM**

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the upper right hand corner of the first page.

***This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at:***

Illinois Environmental Protection Agency  
 Division of Water Pollution Control  
 Permit Section  
 Post Office Box 19276  
 Springfield, Illinois 62794-9276  
 or call (217) 782-0610  
 FAX: (217) 782-9891

Or submit electronically to: [epa.constilr10swppp@illinois.gov](mailto:epa.constilr10swppp@illinois.gov)

**Reports must be typed or printed legibly and signed.**

Any facility that is not presently covered by the General NPDES Permit for Storm Water Discharges From Construction Site Activities is considered a new facility.

If this is a change in your facility information, renewal, etc., please fill in your permit number on the appropriate line, changes of information or permit renewal notifications do not require a fee.

**NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.**

Use the formats given in the following examples for correct form completion.

	Example	Format
Section	12	1 or 2 numerical digits
Township	12N	1 or 2 numerical digits followed by "N" or "S"
Range	12W	1 or 2 numerical digits followed by "E" or "W"

For the Name of Closest Receiving Waters, do not use terms such as ditch or channel. For unnamed tributaries, use terms which include at least a named main tributary such as "Unnamed Tributary to Sugar Creek to Sangamon River."

Submission of initial fee and an electronic submission of Storm Water Pollution Prevention Plan (SWPPP) for Initial Permit prior to the Notice of Intent being considered complete for coverage by the ILR10 General Permits. Please make checks payable to: Illinois EPA at the above address.

Construction sites with less than 5 acres of land disturbance - fee is \$250.

Construction sites with 5 or more acres of land disturbance - fee is \$750.

SWPPP should be submitted electronically to: [epa.constilr10swppp@illinois.gov](mailto:epa.constilr10swppp@illinois.gov) When submitting electronically, use Project Name and City as indicated on NOI form.





# Illinois Environmental Protection Agency

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

## Division of Water Pollution Control

### Construction Site Storm Water Discharge Incidence of Non-Compliance (ION)

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. You may email this completed form to:*

[epa.swnoncomp@illinois.gov](mailto:epa.swnoncomp@illinois.gov)

For Office Use Only

Permit No. ILR10 \_\_\_\_\_

Permittee Name: Village of Villa Park, DuPage County, Illinois

Address: 11 West Home Avenue

County: DuPage

City: Villa Park State: IL Zip: 60181

Phone: (630) 834-8505

Construction Site Name: Plymouth Street Improvement Project

E-mail: mguerra@invillapark.com

Latitude: 41 53 20 Longitude: -87 58 45 Various 39N 11E  
(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

#### Cause of Non-Compliance

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### Actions Taken to Prevent Any Further Non-Compliance

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### Environmental Impact Resulting From the Non-Compliance

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### Actions Taken to Reduce the Environmental Impact Resulting From the Non-Compliance

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Owner Signature:  
Vydas Juskelis, P.E.

Date:  
Director of Public Works

Printed Name:

Title:

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

DIVISION OF WATER POLLUTION CONTROL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
FIELD OPERATIONS SECTION

GUIDELINES FOR COMPLETION OF INCIDENCE OF NON-COMPLIANCE (ION) FORM

Complete and submit this form for any violation of the Storm Water Pollution Prevention Plan observed during any inspection conducted, including those not required by the SWPPP. Please adhere to the following guidelines

Initial submission within 24 hours by email, telephone or fax (see region fax numbers) of any incidence of non-compliance for any violation. Submit email copy to: [epa.swnoncomp@illinois.gov](mailto:epa.swnoncomp@illinois.gov). After 24 hours notification, submit signed original ION within 5 days to the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Compliance Assurance #19  
Post Office Box 19276  
Springfield, Illinois 62794-9276

FIELD OPERATIONS HEADQUARTERS  
Bruce Yurdin, Manager  
Phone: 217/782-3362 Fax: 217/785-1225  
EMAIL: [epa.swnoncomp@illinois.gov](mailto:epa.swnoncomp@illinois.gov)

Region 1 - ROCKFORD  
Chuck Corley, Manager  
Phone: 815/987-7760 Fax: 815/987-7005

Region 2 - DESPLAINES  
Jay Patel, Manager  
Phone: 847/294-4000 Fax: 847/294-4058

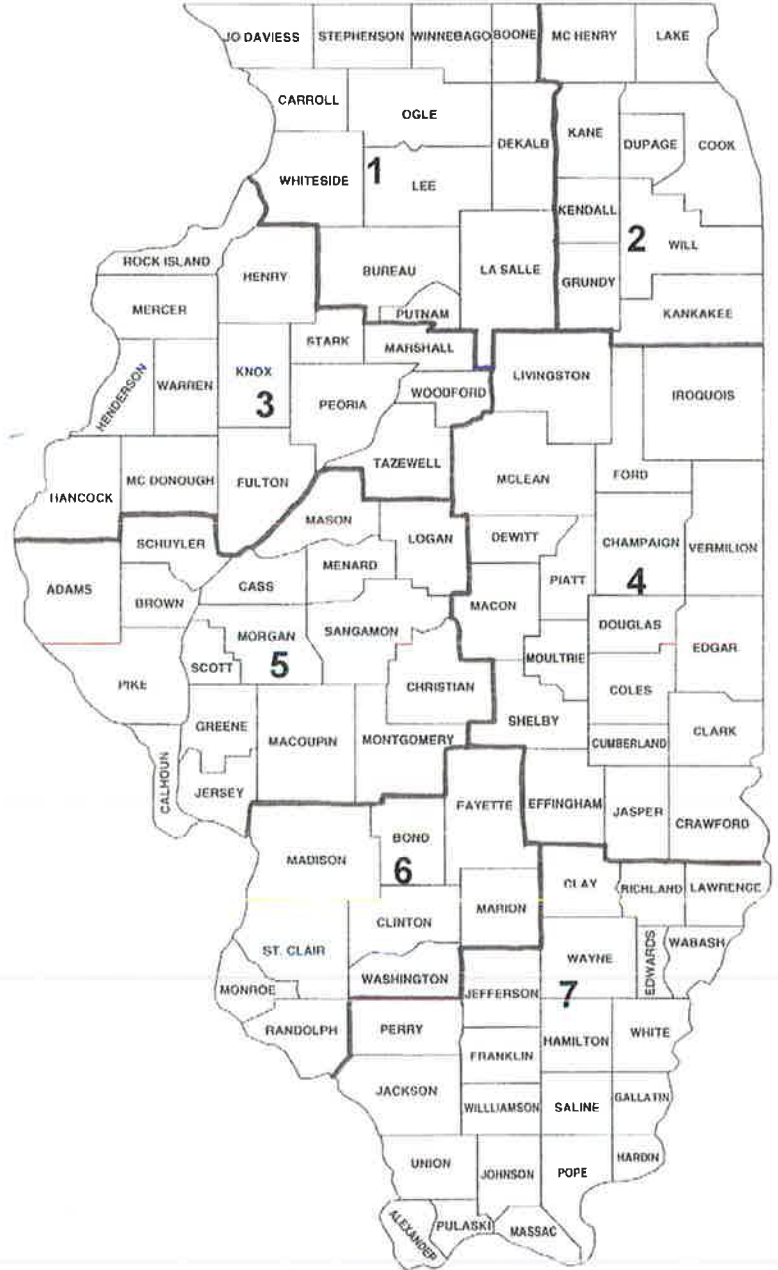
Region 3 - PEORIA  
Jim Kammueler, Manager  
Phone: 309/693-5463 Fax: 309/693-5467

Region 4 - CHAMPAIGN  
Joe Koronkowski, Manager  
Phone: 217/278-5800 Fax: 217/278-5808

Region 5 - SPRINGFIELD  
Bruce Yurdin, FOS Manager  
Phone: 217/782-3362 Fax: 217/785-1225

Region 6 - COLLINSVILLE  
Bruce Yurdin, FOS Manager  
Phone: 217/782-3362 Fax: 217/785-1225

Region 7 - MARION  
Byron Marks, Manager  
Phone: 618/993-7200 Fax: 618/997-5467





# Illinois Environmental Protection Agency

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

## Division of Water Pollution Control NOTICE OF TERMINATION (NOT) of Coverage under the General Permit for Storm Water Discharges Associated with Construction Site Activities

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.*

### OWNER INFORMATION

Permit No. ILR10 \_\_\_\_\_

Owner Name: Village of Villa Park, DuPage County, Illinois

Owner Type (select one) City

Mailing Address: 11 West Home Avenue Phone: (630) 834-8505

City: Villa Park State: IL Zip: 60181 Fax: (630) 834-8509

Contact Person: Michael Guerra, P.E. E-mail: mguerra@invillapark.com

### CONTRACTOR INFORMATION

Contractor Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ Phone: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Fax: \_\_\_\_\_

### CONSTRUCTION SITE INFORMATION

Facility Name: Plymouth Street Improvement Project

Street Address: Ardmore Avenue to Villa Avenue

City: Villa Park IL Zip: 60181 County: DuPage

NPDES Storm Water General Permit Number: ILR10

Latitude: 41 53 20 Longitude: -87 58 45 Various 39N 11E  
(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

DATE PROJECT HAS BEEN COMPLETED AND STABILIZED: \_\_\_\_\_

### NOTE: Coverage under this permit cannot be terminated without the completion date.

I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized or that all storm water discharges associated with industrial activity from the identified facility that are authorized by an NPDES general permit have otherwise been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with industrial activity by the general permit, and that discharging pollutants in storm water associated with industrial activity to Waters of the State is unlawful under the Environmental Protection Act and the Clean Water Act where the discharge is not authorized by an NPDES Permit.

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

\_\_\_\_\_  
Owner Signature:

\_\_\_\_\_  
Date:

Mail completed form to: Illinois Environmental Protection Agency  
Division of Water Pollution Control, Attn: Permit Section  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276

(Do not submit additional documentation unless requested)

## **GUIDELINES FOR COMPLETION OF NOTICE OF TERMINATION (NOT) FORM**

Please adhere to the following guidelines:

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible.

Submit completed forms to:

Illinois Environmental Protection Agency  
 Division of Water Pollution Control, Attn: Permit Section  
 1021 North Grand Avenue East  
 P.O. Box 19276  
 Springfield, Illinois 62794-9276  
 or call (217) 782-0610  
 FAX: (217) 782-9891

Or submit electronically to: [epa.constilr10swppp@illinois.gov](mailto:epa.constilr10swppp@illinois.gov)

**Reports must be typed or printed legibly and signed.**

**NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.**

Use the formats given in the following examples for correct form completion.

	Example	Format
Section	12	1 or 2 numerical digits
Township	12N	1 or 2 numerical digits followed by "N" or "S"
Range	12W	1 or 2 numerical digits followed by "E" or "W"

Final stabilization has occurred when:

- (a) all soil disturbing activities at the site have been completed;
- (b) a uniform perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas not covered by permanent structures; or
- (c) equivalent permanent stabilization measures have been employed.

**PLYMOUTH STREET IMPROVEMENT PROJECT  
VILLAGE OF VILLA PARK**

**APPENDIX 5  
PAVEMENT CORES AND SOIL BORINGS  
LPC 663 CCDD CERTIFICATION**



**PAVEMENT CORE MEASUREMENT LOG**  
**2019 STREETS PROGRAM**  
**VILLA PARK, ILLINOIS**

<b>Core No. C-1</b>							
<b>Location</b>	<u>E. Plymouth Street. WB</u> ~ 815' W of Villa Avenue						
<b>Material</b>	<b>Depth (in.)</b>		<b>Thickness (in.)</b>	<b>Remarks/Condition</b>	<b>coeff</b>	<b>sn</b>	
PC Concrete	0	to 6- 1/2	6- 1/2		0.50	3.25	
Granular Base Course	6- 1/2	to 15	8- 1/2	Crushed LIMESTONE with Clay	0.10	0.85	
Subgrade	15			Grey CLAY, A-7-6 Mc=31%, PR=2.8 in/blow, Qu=0.6 tsf		<b>4.10</b>	
<b>Core No. C-2</b>							
<b>Location</b>	<u>E. Plyouath Street. EB</u> ~ 150' W of Villa Avenue						
<b>Material</b>	<b>Depth (in.)</b>		<b>Thickness (in.)</b>	<b>Remarks/ Condition</b>	<b>coeff</b>	<b>sn</b>	
PC Concrete	0	to 8- 1/4	8- 1/4		0.50	4.13	
Trench Backfill	8- 1/4	to 47	38- 3/4	Crushed LIMESTONE, CA-06	0.00	0.00	
Refusal at 47"						<b>4.13</b>	
<b>Core No. C-3</b>							
<b>Location</b>	<u>E. Park Boulevard. WB</u> ~ 370' W of S. Ardmore Avenue						
<b>Material</b>	<b>Depth (in.)</b>		<b>Thickness (in.)</b>	<b>Remarks/Condition</b>	<b>coeff</b>	<b>sn</b>	
Bituminous Surface	0	to 2	2		0.30	0.60	
<b>Crack Control Fabric</b>					0.00	0.00	
Bituminous Surface	2	to 2- 3/4	3/4		0.23	0.17	
Bituminous Surface	2- 3/4	to 3- 3/4	1		0.23	0.23	
Bituminous Binder	3- 3/4	to 4- 1/2	3/4		0.20	0.15	
PC Concrete	4- 1/2	to 12- 1/4	7- 3/4	Fair to Poor - Some Cracking	0.50	3.88	
Subgrade	12- 1/4			Brownish-Grey CLAY, A-6 Mc=25%, PR=2.1 in/blow, Qu=0.9 tsf		<b>5.03</b>	
<b>Core No. C-4</b>							
<b>Location</b>	<u>E. Park Boulevard. EB</u> ~ 130' E of S. Ardmore Avenue						
<b>Material</b>	<b>Depth (in.)</b>		<b>Thickness (in.)</b>	<b>Remarks/Condition</b>	<b>coeff</b>	<b>sn</b>	
Bituminous Surface	0	to 1- 3/4	1- 3/4		0.30	0.53	
<b>Crack Control Fabric</b>					0.00	0.00	
Bituminous Surface	1- 3/4	to 2- 1/2	3/4		0.23	0.17	
Bituminous Binder	2- 1/2	to 4- 1/4	1- 3/4	Deterioration, Cracking	0.20	0.35	
PC Concrete	4- 1/4	to 14	9- 3/4	Poor - Broken Up / Cracking	0.50	4.88	
Subgrade	14			Grey to Dark Grey CLAY, A-7-6 Mc=25%, PR=2.1 in/blow, Qu=0.9 tsf		<b>5.92</b>	

**PAVEMENT CORE MEASUREMENT LOG**

**2019 STREETS PROGRAM**

**VILLA PARK, ILLINOIS**

<b>Core No. B-1</b>						
<b>Location</b>	<u>E. Plymouth Street, EB</u> ~ 210' E of N. Ardmore Avenue					
<b>Material</b>	<b>Depth (in.)</b>		<b>Thickness (in.)</b>		<b>Remarks/Condition</b>	
PC Concrete	0	to 6- 1/2	6- 1/2			coeff    sn
Granular Base Course	6- 1/2	to 9	2- 1/2	Crushed LIMESTONE	with Clay	0.50    3.25 0.10    0.25
						<b>3.50</b>
<b>Core No. B-2</b>						
<b>Location</b>	<u>E. Plymouth Street, WB</u> ~ 520' E of N. Ardmore Avenue					
<b>Material</b>	<b>Depth (in.)</b>		<b>Thickness (in.)</b>		<b>Remarks/ Condition</b>	
PC Concrete	0	to 6- 1/2	6- 1/2			coeff    sn
Granular Base Course	6- 1/2	to 26	19- 1/2	Crushed LIMESTONE	with Clay	0.50    3.25 0.10    1.95
						<b>5.20</b>
<b>Core No. B-3</b>						
<b>Location</b>	<u>E. Plymouth Street, EB</u> ~ 1,215' E of N. Ardmore Avenue					
<b>Material</b>	<b>Depth (in.)</b>		<b>Thickness (in.)</b>		<b>Remarks/Condition</b>	
PC Concrete	0	to 6- 1/4	6- 1/4			coeff    sn
Granular Base Course	6- 1/4	to 10- 1/2	4- 1/4	Crushed LIMESTONE	with Clay	0.50    3.13 0.10    0.43
						<b>3.55</b>
<b>Core No. B-4</b>						
<b>Location</b>	<u>St. Charles Alley</u> between N. Harvard Avenue and N. Yale Avenue					
<b>Material</b>	<b>Depth (in.)</b>		<b>Thickness (in.)</b>		<b>Remarks/Condition</b>	
Bituminous Binder	0	to 2- 1/2	2- 1/2			coeff    sn
Bituminous Binder	2- 1/2	to 5- 1/2	3			0.25    0.63 0.20    0.60
Granular Base Course	5- 1/2	to 14	8- 1/2	Crushed LIMESTONE, CA-06		0.11    0.94
						<b>2.16</b>
<b>Core No. B-5</b>						
<b>Location</b>	<u>Park Boulevard Alley</u> between S. Princeton Avenue and S. Ardmore Avenue					
<b>Material</b>	<b>Depth (in.)</b>		<b>Thickness (in.)</b>		<b>Remarks/Condition</b>	
Bituminous Surface	0	to 1	1			coeff    sn
PC Concrete	1	to 8- 3/4	7- 3/4			0.30    0.30 0.50    3.88
						<b>4.18</b>

PROJECT: **2019 Streets Program**

SITE LOCATION: **Villa Park, Illinois**

BORING LOCATION: **Plymouth, EB - 210' E of Ardmore**

CLIENT: **Civiltech Engineering, Inc.**

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS
				TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	
0		PAVEMENT - 6-1/2" PC Concrete	0.0							
		GBC - 2-1/2" Crushed Limestone	-0.5							
		Olive-Grey CLAY, A-7-6, very stiff	-0.8	SS	1A	4	26	91	2.02	
		Brown and Grey CLAY, A-6, very stiff to hard	-1.5	SS	1B	4	19	105	2.83	
2.5										
		moist		SS	2	7	19	109	2.33	
5										
				SS	3	14	20	105	4.81	
7.5										
				SS	4	18	17	106	6.17	
10										
		End of Boring at 10'	-10.0							

**WATER LEVEL OBSERVATIONS, ft.**

DURING DRILLING:  None  
 IMMEDIATELY AFTER DRILLING:  Dry  
 DELAYED READING AFTER 



**MSET**

BORING STARTED: 12/26/18  
 BORING COMPLETED: 12/26/18  
 LOGGED BY: GPF  
 BORING METHOD: HSA

PROJECT: **2019 Streets Program**

SITE LOCATION: **Villa Park, Illinois**

BORING LOCATION: **Plymouth, WB - 520' E of Ardmore**

CLIENT: **Civiltech Engineering, Inc.**

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS
				TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	
0		PAVEMENT - 6-1/2" PC Concrete	0.0							
		GBC - 19-1/2" Crushed Limestone	-0.5							
2.5		Black to Dark Grey CLAY, A-7-6	-2.2	SS	1A	5	31	88	2.21	
		Brown and Grey, little Black CLAY, A-6, stiff to very stiff	-2.5	SS	1B	6	22	92	1.55	
				SS	2	4	27	91	2.25	
				SS	3	6	29	94	1.71	
		Brown CLAY, A-6, hard	-8.0	SS	4	13	20	105	6.32	
10		End of Boring at 10'	-10.0							

**WATER LEVEL OBSERVATIONS, ft.**

DURING DRILLING:

IMMEDIATELY AFTER DRILLING:

DELAYED READING AFTER



**MSET**

**BORING STARTED:** 12/26/18

**BORING COMPLETED:** 12/26/18

**LOGGED BY:** GPF

**BORING METHOD:** HSA

PROJECT: 2019 Streets Program

SITE LOCATION: Villa Park, Illinois

BORING LOCATION: Plymouth, EB - 1215' E of Ardmore

CLIENT: Civiltech Engineering, Inc.

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	
0		PAVEMENT - 6-1/4" PC Concrete	0.0							
		GBC - 4-1/4" Crushed Limestone	-0.5							
		Brown and Grey CLAY, A-6(14), very stiff to hard	-0.9							
2.5				SS	1	5	19	102	2.79	
5				SS	2	11	20	105	6.75	
7.5				SS	3	14	20	104	5.51	
		Grey, trace Brown CLAY, A-6, hard	-8.0							
10				SS	4	11	19	105	5.59	
		End of Boring at 10'	-10.0							

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING:  None  
 IMMEDIATELY AFTER DRILLING:  Dry  
 DELAYED READING AFTER  None



BORING STARTED: 12/26/18  
 BORING COMPLETED: 12/26/18  
 LOGGED BY: GPF  
 BORING METHOD: HSA





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

## Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

### I. Source Location Information

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

Project Name: 2019 Villa Park Street Improvements Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):

Park Boulevard; Park Boulevard Alley, St. Charles Road Alley, and Plymouth Street - See attached figures

City: Villa Park State: IL Zip Code: 60181

County: DuPage Township: York

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.890264 Longitude: -87.982867  
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

IEPA Site Number(s), if assigned: \_\_\_\_\_ BOL: \_\_\_\_\_ BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Village of Villa Park

Name: \_\_\_\_\_

Street Address: 20 South Ardmore Avenue

Street Address: \_\_\_\_\_

PO Box: \_\_\_\_\_

PO Box: \_\_\_\_\_

City: Villa Park State: IL

City: \_\_\_\_\_ State: \_\_\_\_\_

Zip Code: 60181 Phone: \_\_\_\_\_

Zip Code: \_\_\_\_\_ Phone: \_\_\_\_\_

Contact: \_\_\_\_\_

Contact: \_\_\_\_\_

Email, if available: \_\_\_\_\_

Email, if available: \_\_\_\_\_

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

Project Name: 2019 Villa Park Street Improvements

Latitude: 41.890264 Longitude: -87.982867

**Uncontaminated Site Certification**

**III. Basis for Certification and Attachments**

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

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

A limited historical & regulatory review was performed to identify PIPs. Site reconnaissance was performed while sampling to evaluate on-site environmental conditions & potential PIPs. Based on the nature & scope of the project, 6 soil samples were collected for indicator contaminants associated with identified PIPs, and screened with a PID. Figure 2 shows sample locations.

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

See attached analytical summary tables, laboratory reports and associated NELAC certification. Figure 2 identifies the project area that is covered by this certification.

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

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

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

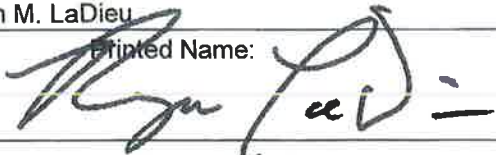
Company Name: True North Consultants

Street Address: 1000 E Warrenville Road, Suite 140

City: Naperville State: IL Zip Code: 60563

Phone: 630.717.2880

Ryan M. LaDieu  
Printed Name:



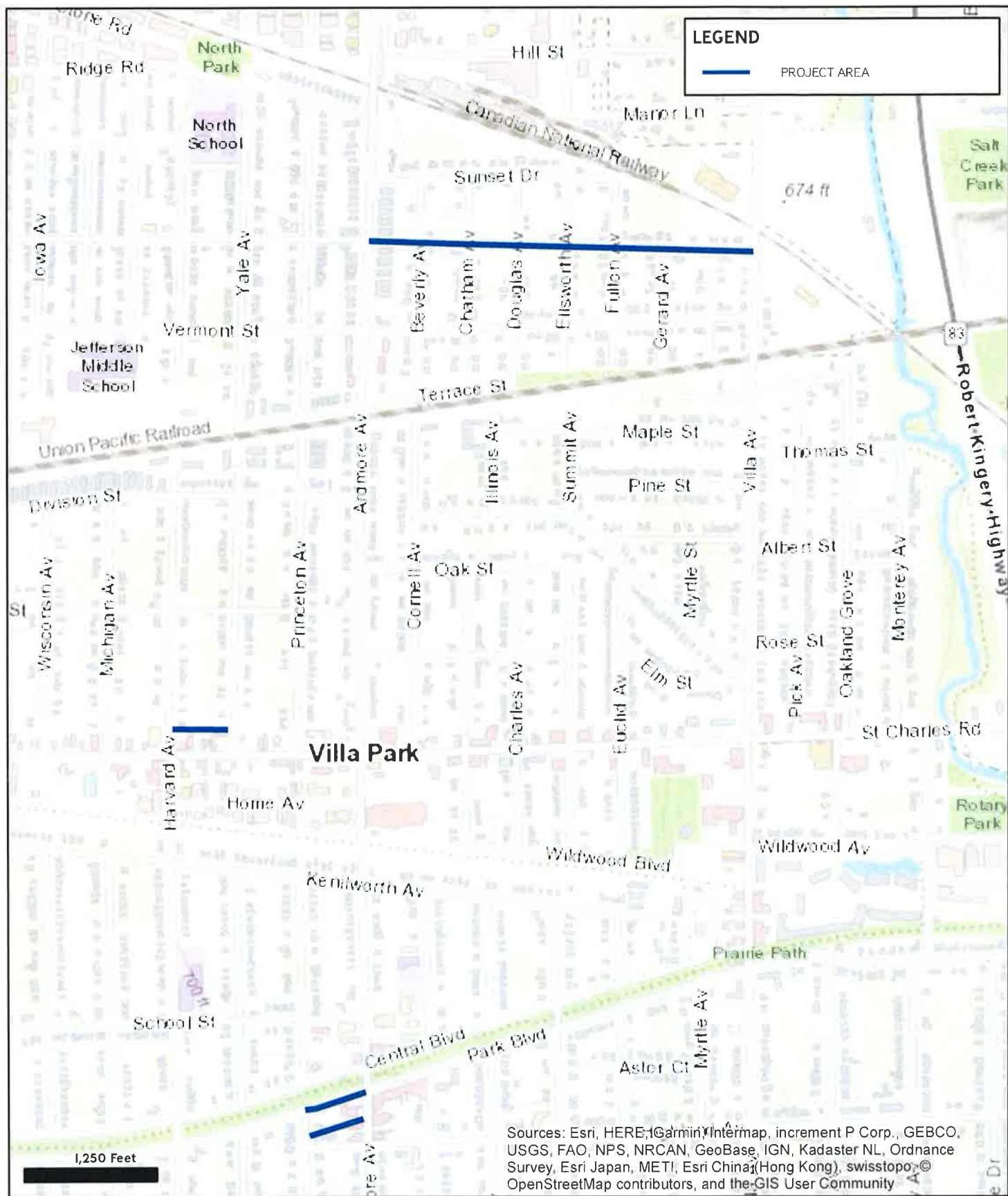
010819

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Date:



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



**TRUENORTH**  
 CONSULTANTS  
 1000 EAST WARRENVILLE ROAD  
 NAPERVILLE, ILLINOIS 60563  
 ENVIRONMENT · DEVELOPMENT · INFRASTRUCTURE

**SITE**  
 PORTIONS OF PARK BOULEVARD, PARK BOULEVARD ALLEY, PLYMOUTH STREET & ST. CHARLES ALLEY  
 VILLA PARK, ILLINOIS

**CLIENT**  
 CIVILTECH ENGINEERING, INC.  
 2 PIERCE PLACE, SUITE 1400  
 ITASCA, ILLINOIS



**PROJECT**  
 TII8839

**DATE**  
 1/8/2019

**SCALE**  
 1 Inch=1,250 feet

**FIGURE**  
 I

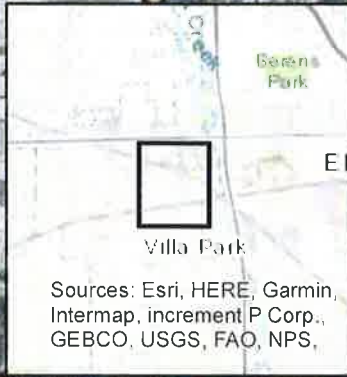
**LEGEND**



SOIL SAMPLE LOCATION



APPROXIMATE LOCATION OF SOILS THAT MUST BE EXCLUDED FROM CCDD MANAGEMENT



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS,



600 Feet

Esri, HERE, Garmin, © OpenStreetMap contributors, Esri, USDA Farm Service Agency

**TRUENORTH**  
CONSULTANTS  
1000 EAST WARRENVILLE ROAD  
NAPERVILLE, ILLINOIS 60563  
ENVIRONMENT · DEVELOPMENT · INFRASTRUCTURE

<b>SITE</b>	PORTIONS OF PARK BOULEVARD, PARK BOULEVARD ALLEY, PLYMOUTH STREET & ST. CHARLES ALLEY VILLA PARK, ILLINOIS
<b>CLIENT</b>	CIVILTECH ENGINEERING, INC., 2 PIERCE PLACE, SUITE 1400 ITASCA, ILLINOIS



<b>PROJECT</b>	T118839
<b>DATE</b>	1/8/2019
<b>SCALE</b>	1 inch=600 feet

**FIGURE**  
**2A**

TABLE I

Summary of Soil Analytical Results - Soil Characterization Sampling

Volatile Organic Compounds (VOCs)

CLIENT: Civiltech Engineering, Inc.

SITE: East Park Boulevard, East Park Boulevard alley, East Plymouth Street and East St. Charles Road alley, Villa Park, Illinois

PROJECT NUMBER: TI18839

SAMPLE DATE: December 26, 2018

LABORATORY: PDC Laboratories, Inc.

MATRIX: Soil

Analytical Method: EPA Method 5035A/8260B

Contaminant of Concern	Maximum Allowable Concentration (MAC) within a Metropolitan Statistical Area (MSA)		Sample ID	PLY-1	PLY-3	A-STC-1	PAR-1	PAR-2	A-PAR-1
			Sample Date	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018
			Depth	2-4'	2-4'	6-8'	0-2'	0-2'	2-4'
			Soil Type	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Acetone	25	MAC		NA	NA	< 0.0496	NA	NA	< 0.170
Benzene	0.03	MAC		< 0.00527	< 0.00584	< 0.00496	< 0.00503	< 0.00553	< 0.00530
Bromodichloromethane	0.6	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Bromoforn	0.8	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Bromomethane	0.2	MAC		NA	NA	< 0.00992	NA	NA	< 0.0106
2-Butanone	17	MAC		NA	NA	< 0.00992	NA	NA	0.0198
Carbon disulfide	9	MAC		NA	NA	< 0.00992	NA	NA	< 0.0106
Carbon tetrachloride	0.07	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Chlorobenzene	1	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Chloroform	0.3	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
1,2-Dibromo-3-chloropropane	0.002	MAC		NA	NA	< 0.00149	NA	NA	< 0.00106
Dibromochloromethane	0.4	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
1,2-Dibromoethane	0.005	MAC		NA	NA	< 0.00298	NA	NA	< 0.00212
1,2-Dichlorobenzene	17	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
1,4-Dichlorobenzene	2	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
1,1-Dichloroethane	23	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
1,2-Dichloroethane	0.02	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
1,1-Dichloroethylene	0.06	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
cis-1,2-Dichloroethylene	0.4	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
trans-1,2-Dichloroethylene	0.7	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
1,2-Dichloropropane	0.03	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
cis-1,3-Dichloropropane	0.005	MAC		NA	NA	< 0.00298	NA	NA	< 0.00318
trans-1,3-Dichloropropane	0.005	MAC		NA	NA	< 0.00298	NA	NA	< 0.00318
1,3-Dichloropropane (total)	0.005	MAC		NA	NA	< 0.00397	NA	NA	< 0.00318
Ethylbenzene	13	MAC		< 0.00527	< 0.00584	< 0.00496	< 0.00503	< 0.00553	< 0.00530
Methyl tertiary-butyl ether	0.32	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Methylene chloride	0.02	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Styrene	4	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Tetrachloroethylene	0.06	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Toluene	12	MAC		< 0.00738	< 0.00584	< 0.00496	< 0.00503	< 0.00553	< 0.00530
1,1,1-Trichloroethane	2	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
1,1,2-Trichloroethane	0.02	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Trichloroethylene	0.06	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Vinyl Acetate	10	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
Vinyl Chloride	0.01	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
o-Xylene	6.5	MAC		NA	NA	< 0.00496	NA	NA	< 0.00530
m,p-Xylenes	5.6	MAC		NA	NA	< 0.00992	NA	NA	< 0.0106
Xylenes (total)	5.6	MAC		< 0.0158	< 0.0175	< 0.0149	< 0.0151	< 0.00553	< 0.0159

Notes:  
 Constituents that are not identified in 35 IAC 1100 Subpart F (MAC Table) are compared to the Metropolitan Statistical Area Background Concentration found in 35 IAC 742 Appendix A, Table H  
 r = Analyte not detected (i.e. less than RL or MDL)  
 All data reported in milligrams per kilogram (mg/kg) unless otherwise noted.  
 NA = This constituent was not analyzed.  
 NE = No remediation objective established by the IEPA for this constituent.  
 Bold identifies an exceedence of the referenced objective.



TABLE 2

Summary of Soil Analytical Results - Soil Characterization Sampling

Semi-Volatile Organic Compounds (SVOCs)

CLIENT: Civiltch Engineering, Inc.

SITE: East Park Boulevard, East Park Boulevard alley; East Plymouth Street and East St. Charles Road alley, Villa Park, Illinois

PROJECT NUMBER: TII8839

SAMPLE DATE: December 26, 2018

LABORATORY: PDC Laboratories, Inc.

MATRIX: Soil

Analytical Method: EPA Method 5035A/8260B

Contaminant of Concern	Maximum Allowable Concentration (MAC) within a Metropolitan Statistical Area (MSA)		Sample ID	PLY-1	PLY-3	A-STC-1	PAR-1	PAR-2	A-PAR-1
	Value	Objective	Sample Date	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018
			Depth	2-4'	2-4'	6-8'	0-2'	0-2'	2-4'
			Soil Type	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Acenaphthene	570	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Anthracene	12000	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Benzo(a)anthracene	1.8	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Benzo(b)fluoranthene	2.1	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Benzo(k)fluoranthene	9.0	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Benzo(a)pyrene	2.1	MAC		< 0.0641	< 0.0669	< 0.0709	< 0.0658	< 0.0659	< 0.0764
Benzoic acid	400	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Bis(2-chloroethyl)ether	0.66	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Bis(2-ethylhexyl)phthalate	46	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Butyl benzyl phthalate	930	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Carbazole	0.6	MAC		NA	NA	< 0.393	NA	NA	< 0.424
4-Chloroaniline	0.7	MAC		NA	NA	< 0.393	NA	NA	< 0.424
2-Chlorophenol	1.5	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Chrysene	88	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Di-n-butyl phthalate	2300	MAC		NA	NA	< 1.42	NA	NA	< 15.3
Di-n-octyl phthalate	1600	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Dibenz(a,h)anthracene	0.42	MAC		< 0.0641	< 0.0669	< 0.0709	< 0.0658	< 0.0659	< 0.0764
3,3'-Dichlorobenzidine	1.3	MAC		NA	NA	< 0.00591	NA	NA	< 0.00637
2,4-Dichlorophenol	0.48	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Dimethyl phthalate	470	MAC		NA	NA	< 0.393	NA	NA	< 0.424
2,4-Dimethylphenol	9	MAC		NA	NA	< 0.393	NA	NA	< 0.424
2,4-Dinitrophenol	3.3	MAC		NA	NA	< 0.118	NA	NA	< 0.127
2,4-Dinitrotoluene	0.25	MAC		NA	NA	< 0.118	NA	NA	< 0.127
2,6-Dinitrotoluene	0.26	MAC		NA	NA	< 0.118	NA	NA	< 0.127
Fluoranthene	3100	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Fluorene	560	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Hexachlorobenzene	0.4	MAC		NA	NA	< 0.118	NA	NA	< 0.127
Hexachlorocyclopentadiene	1.1	MAC		NA	NA	< 0.787	NA	NA	< 0.848
Hexachloroethane	0.5	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Indeno(1,2,3-cd)pyrene	1.6	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Isophorone	8	MAC		NA	NA	< 0.393	NA	NA	< 0.424
2-Methylphenol	15	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Naphthalene	1.8	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
Nitrobenzene	0.26	MAC		NA	NA	< 0.0709	NA	NA	< 0.0764
N-Nitroso-di-n-propylamine	0.0018	MAC		NA	NA	< 0.000704	NA	NA	< 0.000759
N-Nitrosodiphenylamine	1	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Pentachlorophenol	0.02	MAC		NA	NA	< 0.118	NA	NA	< 0.127
Phenol	100	MAC		NA	NA	< 0.393	NA	NA	< 0.424
Pyrene	2300	MAC		< 0.349	< 0.365	< 0.393	< 0.359	< 0.360	< 0.424
1,2,4-Trichlorobenzene	5	MAC		NA	NA	< 0.393	NA	NA	< 0.424
2,4,5-Trichlorophenol	26	MAC		NA	NA	< 0.393	NA	NA	< 0.424
2,4,6-Trichlorophenol	0.66	MAC		NA	NA	< 0.118	NA	NA	< 0.127

Notes:  
 Constituents that are not identified in 35 IAC 1100 Subpart F (MAC Table) are compared to the Metropolitan Statistical Area Background Concentration found in 35 IAC 742 Appendix A, Table H  
 < = Analyte not detected (i.e. less than RL or MDL)  
 All data reported in milligrams per kilogram (mg/kg) unless otherwise noted.  
 NA = This constituent was not analyzed.  
 NE = No remediation objective established by the IEPA for this constituent.  
 Bold identifies an exceedence of the referenced objective.



**TABLE 3**

**Summary of Soil Analytical Results - Soil Characterization Sampling**

**Polychlorinated Biphenyls (PCBs)**

**CLIENT:** Civiltech Engineering, Inc.

**SITE:** East Park Boulevard, East Park Boulevard alley; East Plymouth Street and East St, Charles Road alley, Villa Park, Illinois

**PROJECT NUMBER:** TII8839

**SAMPLE DATE:** December 26, 2018

**LABORATORY:** PDC Laboratories, Inc.

**MATRIX:** Soil

**Analytical Method: EPA Method 6020**

Contaminant of Concern	Maximum Allowable Concentration (MAC) within a Metropolitan Statistical Area (MSA)		Sample ID	PLY-1	PLY-3	A-STC-1	PAR-1	PAR-2	A-PAR-1		
			Sample Date	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	
			Depth	2-4'	2-4'	6-8'	0-2'	0-2'	2-4'		
	Value	Objective	Soil Type	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay		
Aroclor 1016	I	MAC		NA	< 0.042l	< 0.0398	NA	NA	NA		
Aroclor 1221	I	MAC		NA	< 0.042l	< 0.0398	NA	NA	NA		
Aroclor 1232	I	MAC		NA	< 0.042l	< 0.0398	NA	NA	NA		
Aroclor 1242	I	MAC		NA	< 0.042l	< 0.0398	NA	NA	NA		
Aroclor 1248	I	MAC		NA	< 0.042l	< 0.0398	NA	NA	NA		
Aroclor 1254	I	MAC		NA	< 0.042l	< 0.0398	NA	NA	NA		
Aroclor 1260	I	MAC		NA	< 0.042l	< 0.0398	NA	NA	NA		

**Notes:**

Constituents that are not identified in 35 IAC 1100 Subpart F (MAC Table) are compared to the Metropolitan Statistical Area Background Concentration found in 35 IAC 742 Appendix A, Table H

< = Analyte not detected (i.e. less than RL or MDL)

All data reported in milligrams per kilogram (mg/kg) unless otherwise noted.

NA = This constituent was not analyzed.

NE = No remediation objective established by the IEPA for this constituent.

Bold identifies an exceedence of the referenced objective.



TABLE 4

Summary of Soil Analytical Results - Soil Characterization Sampling

Resource Conservation Recovery Act (RCRA) Metals

CLIENT: Civiltech Engineering, Inc.

SITE: East Park Boulevard, East Park Boulevard alley; East Plymouth Street and East St. Charles Road alley, Villa Park, Illinois

PROJECT NUMBER: TII8839

SAMPLE DATE: December 26, 2018

LABORATORY: PDC Laboratories, Inc.

MATRIX: Soil

Analytical Method: EPA Method 6010/6020

Contaminant of Concern	Maximum Allowable Concentration (MAC) within a Metropolitan Statistical Area (MSA)		Sample ID	PLY-1	PLY-3	A-STC-1	PAR-1	PAR-2	A-PAR-1			
			Sample Date	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018		
			pH	8.3	8.7	8.0	7.8	8.3	7.9			
			6.25 ≤ pH ≤ 9.0	Yes	Yes	Yes	Yes	Yes	Yes			
			Depth	2-4'	2-4'	6-8'	0-2'	0-2'	2-4'			
	Value	Objective	Soil Type	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay			
Arsenic	13	MAC		9.5	10.9	9.22	<b>15.1</b>	10.8	<b>29.9</b>			
Barium	1,500	MAC		34.8	90.3	41.9	65.3	95.2	59.6			
Cadmium	5.2	MAC		0.697	0.732	0.575	0.67	0.821	1.02			
Chromium	21	MAC		17.1	<b>24.8</b>	18	21	<b>22.4</b>	<b>22.2</b>			
Lead	107	MAC		15.6	20.6	12.4	32.4	48.5	26.9			
Mercury	0.89	MAC		< 116	< 124	< 119	< 122	< 113	< 127			
Selenium	1.3	MAC		< 0.453	< 0.495	< 0.477	< 0.487	< 0.453	< 0.508			
Silver	4.4	MAC		< 0.0578	< 0.0619	< 0.0596	< 0.0608	< 0.0566	< 0.0635			

**Notes:**  
 Constituents that are not identified in 35 IAC 1100 Subpart F (MAC Table) are compared to the Metropolitan Statistical Area Background Concentration found in 35 IAC 742 Appendix A, Table H  
 < = Analyte not detected (i.e. less than RL or MDL)  
 All data reported in milligrams per kilogram (mg/kg) unless otherwise noted.  
 NA = This constituent was not analyzed.  
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 Bold identifies an exceedence of the referenced objective.

