



Illinois Department of Transportation

Local Public Agency Formal Contract Proposal

PROPOSAL SUBMITTED BY		
Contractor's Name		
Street	P.O. Box	
City	State	Zip Code

STATE OF ILLINOIS

COUNTY OF McLean

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

FOR THE IMPROVEMENT OF
STREET NAME OR ROUTE NO. CH-39 Ropp Road
SECTION NO. 20-00056-10-SC
TYPES OF FUNDS MFT

SPECIFICATIONS (required)

PLANS (required)

For Municipal Projects
Submitted/Approved/Passed
N/A
 Mayor President of Board of Trustees Municipal Official

Date

Department of Transportation
 Released for bid based on limited review
Agreement of Understanding
Regional Engineer
MAY 1, 2020
Date

For County and Road District Projects
Submitted/Approved
N/A
Highway Commissioner

Date

Submitted/Approved
Jerry Stoka
County Engineer
MAY 1, 2020
Date

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

Bid Submittal Checklist

Material Sections

Use the following checklist to assure completeness and correct order in assembling your bid.

- BLR 12200 - FORMAL CONTRACT PROPOSAL
- BLR 12325 - APPRENTICESHIP OR TRAINING PROGRAM
- PROPOSAL GUARANTEE BID CHECK
- AFFIDAVIT OF ILLINOIS BUSINESS OFFICE

RETURN WITH BID

NOTICE TO BIDDERS

County McLean

Street Name or Route No. CH-39 Ropp Road

Section Number 20-00056-10-SC

Route _____

Sealed proposals for the improvement described below will be received at the office of The McLean County Engineer,
102 S. Towanda Barnes Road, Bloomington, IL. 61705 until 10:00 AM on May 26, 2020
Address Time Date

Sealed proposals will be opened and read publicly at the office of The McLean County Engineer
102 S. Towanda Barner Road, Bloomington, IL. 61705 at 10:00 AM on May 26, 2020
Address Time Date

DESCRIPTION OF WORK

Name CH-39 Ropp Road Length: 16134.00 feet (3.06 miles)
Location CH-39 from 1900N Road to 2200N Road CH-12 Hudson Road.
Proposed Improvement Micro-Surfacing, 2 Passes

1. Plans and proposal forms will be available in the office of McLean County Engineer,
102 S. Towanda Barnes Rd. Bloomington, IL. 61705
Address

2. Prequalification
If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.

3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.

4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:
- a. BLR 12200: Local Public Agency Formal Contract Proposal
 - b. BLR 12200a Schedule of Prices
 - c. BLR 12230: Proposal Bid Bond (if applicable)
 - d. BLR 12325: Apprenticeship or Training Program Certification (do not use for federally funded projects)
 - e. BLR 12326: Affidavit of Illinois Business Office

5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.

6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.

7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.

8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.

9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

RETURN WITH BID

PROPOSAL

County McLean

Street Name or Route No. CH-39 Ropp Road

Section Number 20-00056-10-SC

Route _____

1. Proposal of _____

for the improvement of the above section by the construction of Micro-Sealing CH-39 Ropp Road from 1900N - 2200N Road

a total distance of 16134.00 feet, of which a distance of 16134.00 feet, (3.060 miles) are to be improved.

- 2. The plans for the proposed work are those prepared by The McLean County Engineer and approved by the Department of Transportation on Agreement of Understanding
- 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 _____ working days or by 09/16/2020 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:

McLean County Treasurer Treasurer of _____

The amount of the check is _____ (_____).

- 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 20-00056-10-SC
- 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.

CONTRACTOR CERTIFICATIONS

County McLean
 Street Name or Route No. CH-39 Ropp Road
 Section Number 20-00056-10-SC
 Route _____

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 I 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 McLean

Street Name or Route No. CH-39 Ropp Road

Section Number 20-00056-10-SC

Route _____

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed By _____

Business Address _____

Inset Names and Addressed of All Partners



(If a corporation)

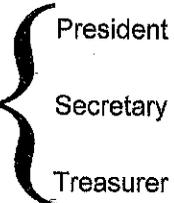
Corporate Name _____

Signed By _____

President

Business Address _____

Inset Names of Officers



President _____

Secretary _____

Treasurer _____

Attest: _____

Secretary



Return with Bid

Route	<u>CH-39 (Ropp Road)</u>
County	<u>McLean</u>
Local Agency	<u></u>
Section	<u>20-00056-10-SC</u>

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:

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.

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.

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. 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: _____

By: _____

(Signature)

Address: _____

Title: _____



Affidavit of Illinois Business Office

County McLean
Local Public Agency
Section Number 20-00056-10-SC
Route CH-39 (Ropp Road)

State of)
County of) ss.

I, (Name of Affiant) of (City of Affiant), (State of Affiant)

being first duly sworn upon oath, states as follows:

- 1. That I am the officer or position of bidder
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, (bidder), will maintain a business office in the State of Illinois which will be located in 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.

(Signature)
(Print Name of Affiant)

This instrument was acknowledged before me on day of

(SEAL)

(Signature of Notary Public)



Route CH 39 Ropp Road
County McLean
Local Agency
Section 20-00056-10-SC

RETURN WITH BID

PAPER BID BOND

WE _____ as PRINCIPAL,
and _____ 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. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LA this sum under the conditions of this instrument.

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 _____ day of _____

Principal

By: _____ (Company Name)
By: _____ (Company Name)
(Signature and Title) (Signature and Title)

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

Surety

By: _____ (Name of Surety)
(Signature of Attorney-in-Fact)

STATE OF ILLINOIS,
COUNTY OF _____

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

(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 _____ day of _____

My commission expires _____ (Notary Public)

ELECTRONIC BID BOND

[] 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. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

(Company/Bidder Name)

(Signature and Title)

Date

The following Special Provisions supplement to "Standard Specifications for Road and Bridge Construction", Adopted April 1, 2016, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specifications and Recurring Special Provisions Indicated on the Check Sheet included here in which apply to and govern the construction of Section 20-00056-10-SC, and in case of a conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

Description of Work: The work included in this contract consists of furnishing all labor, equipment, and materials necessary to construct micro-surfacing, Type II, two passes on an existing hot mix surface.

Prevailing Wages: LRS-12 "Special Provision for Wages of Employees on Public Works" shall apply to this work. No additional compensation will be allowed to the contractor for complying with the requirements of LRS-12.

Certificate of Insurance: The low bidder shall provide a Certificate of Insurance conforming to Article 107.27 of the Standard Specifications for Road and Bridge Construction adopted April 1, 2016 with Additional Insured Endorsement. McLean County, its Boards, Officers and Employees shall be named as additional insured. This insurance is to be primary.

Prequalification of Bidders: The provisions for the Prequalification of Bidders of LRS-7 of the Bureau of Local Roads and Streets special provision shall apply to this project. Prequalification will be required.

Retainage: In accordance with Article 109.07(a) and LRS 15, the Engineer shall deduct retainage from each Pay Estimate until the final payment.

Mobilization: This contract contains no provisions for Mobilization. Therefore, Section 671 of the Standard Specifications is deleted.

Load Limits: County and Township roads in McLean County are posted for gross weight limits. The Contractor will be required to adhere to these weight limits.

Traffic Control Plan: The road shall be open to traffic except when construction operations requires the temporary closing of one lane. Traffic control shall be in accordance with the applicable sections of the "Standard Specifications for Road and Bridge Construction," the applicable guidelines contained in the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways," the "Standard Specifications for Traffic Control Items," these special provisions any special details and Highway Standards contained herein and in the plans.

Special attention is called to Articles 107.09, 107.14, and 107.15, and Sections 701, 702, and 703 of the "Traffic Control Devices for Streets and Highways," the "Standard Specifications for road and Bridge Construction."

1. Highway Standard: 701001-02, 701006-05, 701011-04, 701301-04, 701306-04, and 701901-08"
2. Signs and barricades shall be erected as shown on Standard 701901-08 in the plans. All signs and barricades will be supplied and erected by the Contractor. The cost of furnishing, erecting, and maintaining those signs shall be incidental to the contract;
3. Temporary Marking Tape and Final Paint to be installed by McLean County;
4. Two-way traffic will be required at all times, except when the Contractor's operation requires the temporary closing on one lane.
5. Two signs each conforming to G-20-I100 Co, No Passing Zone, not Striped next 3 miles shall be erected at each end of the corresponding project by the contractor.

NOTE: Additional flaggers required at all Rural Side Road Intersections shall be provided by the Contractor:

All costs of Traffic Control are incidental to the contract.

Construction Signs: FRESH OIL signs (W21-2) shall be placed at intersections by the Contractor as required by the Engineer. The cost of all construction signs shall be incidental to this contract.

This Micro-Surfacing shall conform to Section 404 and 1102 of the Supplemental Specifications and Recurring Special Provisions adopted January 1, 2020, and BDE 80424, Micro-Surfacing and Slurry Sealing.

The Aggregate used for this project shall conform to Micro Surfacing (BDE 80424) with the following exceptions. Only crushed air-cooled blast furnace slag shall be used with FA-24 Gradation. All roads are to be micro-surfaced in two passes. The mix spread rate for a double pass shall be controlled to place an average of 17 lbs. per square yard per pass of aggregate (dry weight) in the mixture.

404.08 Surface Preparation: Revise this section - All surface preparation shall be done by McLean County.

Completion of Work: All work shall be completed by September 16, 2020.

Failure to Complete Work on Time:

Revise the table of liquidated damages in Article 108.09 of the Standard Specifications to read:

<u>Original Contract Amount</u>		<u>Daily Charge</u>	
<u>From More Than</u>	<u>To And Including</u>	<u>Calendar Day</u>	<u>Work Day</u>
\$ 0	\$ 25,000	\$ 50	\$ 60
25,000	50,000	100	125
50,000	100,000	200	250
100,000	500,000	370	515

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted April 1, 2016, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of McLean County 20-00056-10-SC, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

BID CHECK

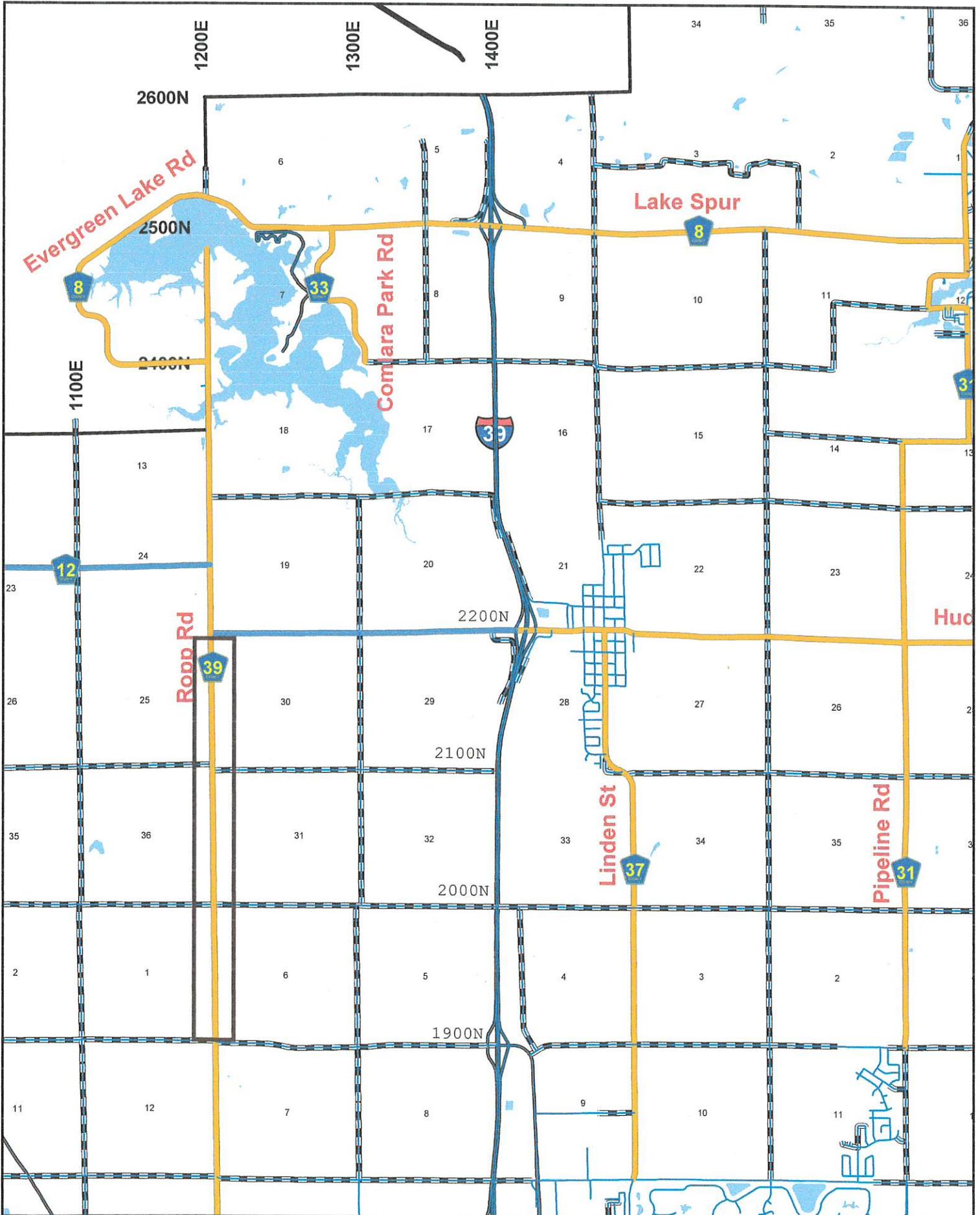
According to Check Sheet LRS 7 each proposal shall be accompanied by a bank cashier's check or a properly certified check made payable to the McLean County Treasurer for not less than five percent (5%) of the amount bid, or for the amount specified in the following schedule:

<u>Amount of Bid</u>	<u>Proposal Guaranty</u>
Up To:	\$ 150
5,000	300
10,000	1,000
50,000	3,000
100,000	5,000
150,000	7,500
250,000	12,500
500,000	25,000
1,000,000	50,000
1,500,000	75,000
2,000,000	100,000
3,000,000	150,000
5,000,000	250,000
7,500,000	400,000
10,000,000	500,000
15,000,000	600,000
20,000,000	700,000
25,000,000	800,000
30,000,000	900,000
over	1,000,000

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.



Section 20-00056-10-SC CH-39 Ropp Road



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)

SUPPLEMENTAL SPECIFICATIONS

<u>Std. Spec. Sec.</u>	<u>Page No.</u>
106 Control of Materials	1
107 Legal Regulations and Responsibility to Public	2
109 Measurement and Payment	3
205 Embankment	4
403 Bituminous Surface Treatment (Class A-1, A-2, A-3)	5
404 Micro-Surfacing and Slurry Sealing	6
405 Cape Seal	17
406 Hot-Mix Asphalt Binder and Surface Course	27
420 Portland Cement Concrete Pavement	28
424 Portland Cement Concrete Sidewalk	30
442 Pavement Patching	31
502 Excavation for Structures	32
503 Concrete Structures	35
504 Precast Concrete Structures	38
506 Cleaning and Painting New Steel Structures	39
522 Retaining Walls	40
542 Pipe Culverts	41
586 Sand Backfill for Vaulted Abutments	42
602 Catch Basin, Manhole, Inlet, Drainage Structure, and Valve Vault Construction, Adjustment, and Reconstruction	44
603 Adjusting Frames and Grates of Drainage and Utility Structures	45
630 Steel Plate Beam Guardrail	46
631 Traffic Barrier Terminals	49
670 Engineer's Field Office and Laboratory	50
701 Work Zone Traffic Control and Protection	51
704 Temporary Concrete Barrier	53
780 Pavement Striping	55
781 Raised Reflective Pavement Markers	56
888 Pedestrian Push-Button	57
1001 Cement	58
1003 Fine Aggregates	59
1004 Coarse Aggregates	60
1006 Metals	63
1020 Portland Cement Concrete	65
1043 Adjusting Rings	67

1050	Poured Joint Sealers	69
1069	Pole and Tower	71
1077	Post and Foundation	72
1096	Pavement Markers	73
1101	General Equipment	74
1102	Hot-Mix Asphalt Equipment	75
1103	Portland Cement Concrete Equipment	77
1105	Pavement Marking Equipment	79
1106	Work Zone Traffic Control Devices	81

State of Illinois
Department of Transportation

SUPPLEMENTAL SPECIFICATION
FOR
SECTION 404. MICRO-SURFACING AND SLURRY SEALING

This Supplemental Specification amends the provisions of the Standard Specifications for Road and Bridge Construction, adopted April 1, 2016 and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

Add the following Section to the Standard Specifications:

"SECTION 404. MICRO-SURFACING AND SLURRY SEALING

"404.01 Description. This work shall consist of micro-surfacing or slurry sealing existing hot-mix asphalt (HMA) surfaces.

404.02 Materials. Materials shall be according to the following.

Item	Article/Section
(a) Mineral Filler (Note 1)	1001
(b) Water	1002
(c) Coarse Aggregate (Note 2)	1004
(d) Bituminous Material (Tack Coat)	1032.06
(e) Emulsified Asphalts (Note 3)(Note 4)	1032.06
(f) Fiber Modified Joint Sealer	1050.05
(g) Additives (Note 5)	

Note 1. The mineral filler shall be Type 1 portland cement.

Note 2. The coarse aggregate material shall be selected from the table in Article 1004.03(a) based upon the friction aggregate mixture specified. The quality of the aggregate shall be Class B and the gradation shall be CA 21 or CA 22 as specified on the plans. Rut-filling mixes shall be constructed using CA 22 gradation. All surface mixes shall be constructed using CA 21 gradation.

The aggregate shall be crushed gravel, crushed stone, crushed slag, crushed sandstone, or crushed steel slag. The blending, alternate use, and /or substitutions of aggregates from different sources for use in this work will not be permitted without the approval of the Engineer. Any blending shall be by interlocked mechanical feeders. The blending shall be uniform, compatible with the other components of the mix, and the equipment shall be approved by the Engineer.

If blending aggregates, the blend shall have a washed gradation performed every other day or a minimum of three tests per week. Testing shall be completed before the aggregate receives final acceptance for use in the mix.

Aggregates shall be screened at the stockpile prior to delivery to the paving machine to remove oversized material or contaminants.

Note 3. When used for slurry seal, the emulsified asphalt shall be a quick-traffic, asphalt emulsion conforming to the requirements of AASHTO M 208 for CSS-1h, and the following.

AASHTO Test No.	Tests on Residue	Specification
AASHTO T 49	Penetration at 77 °F (25 °C)	40 - 90 dmm ^{1/}

1/ Climatic conditions should be considered when establishing this range.

The cement mixing test will be waived for this emulsion.

If a latex-modified emulsion is used, the latex shall be milled or blended into the emulsifier solution prior to the emulsification process.

Note 4. When used for micro-surfacing, the emulsified asphalt shall meet the requirements of Article 1032.06(e).

Note 5. Additives may be added to the emulsion mix or any of the component materials to provide the control of the quick-traffic properties. They shall be included as part of the mix design and be compatible with the other components of the mix.

404.03 Equipment. Equipment shall be according to the following.

Item	Article/Section
(a) Slurry Systems Mixing Machine.....	1102.08
(b) Slurry Systems Spreader.....	1102.09
(c) Slurry Systems Proportioning Devices.....	1102.10
(d) Air Compressor.....	1101.19
(e) Oil Kettle.....	1101.20

CONSTRUCTION REQUIREMENTS

404.04 General. Slurry systems shall be according to the following.

- (a) Micro-Surfacing. The paving mixture shall be capable of filling up to 1 1/2 in. (38 mm) wheel ruts in one pass, be capable of field regulation of the setting time, and be suitable for nighttime placement. The compatibility of all ingredients of the mix, including the mix set additive, shall be certified by the emulsified asphalt manufacturer.
- (b) Slurry Seal. The slurry seal shall be capable of field regulation of the setting time. The compatibility of all ingredients of the mix, including the mix set additive, shall be certified by the emulsified asphalt manufacturer.

404.05 Weather Limitations. Placement of the slurry system shall be done between May 1 and October 15, and when the temperature is at least 50 °F (10 °C) and rising and the forecast for the next 24 hours is above 40 °F (5 °C).

404.06 Mix Design. Mix designs for slurry systems shall be according to the following.

- (a) **Micro-Surfacing.** A Contractor provided laboratory shall develop the mix design for the micro-surfacing mixture, shall verify the functioning of the set regulating additives, and shall present certified test results for the Engineer's approval. This laboratory shall be recognized by the International Slurry Surfacing Association (ISSA) as being capable of performing mix designs. The Engineer will verify the laboratory tests required in ISSA A143 have been conducted.

Proportions for the mix design shall be within the following limits.

Mineral Aggregate, dry weight (mass) lb/sq yd (kg/sq m)	15 - 50 (8 - 30)
Latex Emulsified Asphalt Residue, % by wt. of Aggregate	5.5 - 10.5
Latex Base Modifier	As required with % by weight (mass) of binder, min. of 3.0
Mix Set Additive	As required
Mineral Filler, % by weight (mass) of Aggregate	0.25 - 3 depending on weather conditions

The amount of mineral filler needed shall be determined by the laboratory mix design and will be considered as part of the aggregate gradation.

The amount and type of latex shall be determined by the laboratory performing the mix design. The minimum amount required shall be based on asphalt weight content and shall be certified by the emulsion supplier.

Compatibility of the aggregate, latex-modified emulsified asphalt, mineral filler, and other additives shall be verified by the mix design. The materials shall meet the following requirements for ISSA A143.

ISSA Test No.	Description	Specification
ISSA TB-139	Wet Cohesion @ 30 minutes min. (Set) @ 60 minutes min. (Traffic)	12 kg-cm min. 20 kg-cm min. or Near Spin
ISSA TB-109	Excess Asphalt by LWT Sand Adhesion	50 gm/sq ft (538 gm/sq m) max.
ISSA TB-114	Wet Stripping	Pass (90% min.)
ISSA TB-100	Wet-Track Abrasion Loss One-hour Soak Six-day Soak	50 gm/sq ft (538 gm/sq m) max. 75 gm/sq ft (807 gm/sq m) max.
ISSA TB-147	Lateral Displacement	5% max.
	Specific Gravity after 1,000 Cycles of 25 lb (11.34 kg)	2.10 max.
ISSA TB-144	Classification Compatibility	11 Grade Points min. (AAA, BAA)
ISSA TB-113	Mix Time @ 77 °F (25 °C)	Controllable to 120 seconds min.

The mixing test and set-time test shall be checked at the highest temperatures expected during construction.

The mix design shall report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect). The report shall clearly show the proportions of aggregate, mineral filler (minimum and maximum), water (minimum and maximum), additive usage, and latex-modified asphalt emulsion based on the dry weight of the aggregate.

For the aggregate blend in the mix design, test results for AASHTO T 176 shall be provided with the mix information to the Engineer. Aggregate test values below 65 shall require review and approval from the Engineer.

Before the work commences, the Contractor shall submit to the Engineer a complete mix design covering the specific materials to be used on the project. The percentages of each individual material required shall be shown in the laboratory report. The Engineer shall approve the mix design prior to its use. After approval, no substitutions will be permitted, unless approved by the Engineer, and the Contractor shall maintain continuous control of the latex-modified emulsified asphalt to dry aggregate proportioning to conform to the approved mix design within a tolerance of ± 2 gal/ton (± 8 L/metric ton).

- (b) Slurry Seal. A Contractor provided laboratory shall develop the mix design for the paving mixture, shall verify the functioning of the set regulating additives, and shall present certified test results for the Engineer's approval. This laboratory shall be recognized by the International Slurry Surfacing Association (ISSA) as being capable of performing mix designs. The Engineer will verify the laboratory tests required in ISSA A105 have been conducted.

Proportions for the mix design shall be within the following limits.

Mineral Aggregate, dry weight (mass) lb/sq yd (kg/sq m)	15 - 25 (8 - 15)
Emulsified Asphalt Residue, % by wt. of Aggregate	7.5 - 13.5
Latex Base Modifier (if required)	As required with % by weight (mass) of binder, min. of 5.0
Mix Set Additive	As required
Mineral Filler, % by weight (mass) of Aggregate	0.5 - 2.0 depending on weather conditions

The amount of mineral filler needed shall be determined by the laboratory mix design and will be considered as part of the aggregate gradation.

The amount and type of latex shall be determined by the laboratory performing the mix design. The minimum amount required shall be based on asphalt weight content and shall be certified by the emulsion supplier.

Compatibility of the aggregate, emulsified asphalt, mineral filler, and other additives shall be verified by the mix design. The materials shall meet the following requirements for ISSA A105.

ISSA Test No.	Description	Specification
ISSA TB-139	Wet Cohesion @ 30 minutes min. (Set) @ 60 minutes min. (Traffic)	12 kg-cm min. 20 kg-cm min. or Near Spin
ISSA TB-109	Excess Asphalt by LWT Sand Adhesion	50 gm/sq ft (538 gm/sq m) max.
ISSA TB-114	Wet Stripping	Pass (90% min.)
ISSA TB-100	Wet-Track Abrasion Loss One-hour Soak	75 gm/sq ft (807 gm/sq m) max.
ISSA TB-113	Mix Time @ 77 °F (25 °C)	Controllable to 180 seconds, min.

The mixing test and set-time test shall be checked at the highest temperatures expected during construction.

The mix design shall report the quantitative effects of moisture content on the unit weight of the aggregate (bulking effect). The report shall clearly show the proportions of aggregate, mineral filler (minimum and maximum), water (minimum and maximum), additive usage, and asphalt emulsion based on the dry weight of the aggregate.

For the aggregate blend in the mix design, test results for AASHTO T 176 shall be provided with the mix information to the Engineer. Aggregate test values below 45 shall require review and approval from the Engineer.

Before the work commences, the Contractor shall submit to the Engineer a complete mix design covering the specific materials to be used on the project. The percentages of each individual material required shall be shown in the laboratory report. The Engineer shall approve the mix design prior to its use. After approval, no substitutions will be permitted unless

approved by the Engineer, and the Contractor shall maintain continuous control of the emulsified asphalt to dry aggregate proportioning to conform to the approved mix design within a tolerance of ± 2 gal/ton (± 8 L/metric ton).

404.07 Test Strip. For projects over 100,000 sq yd (83,600 sq m), at least one day prior to starting the project the Contractor shall designate a mutually agreeable location and apply a test strip of the slurry system using the aggregate indicated in the mix design. The Engineer will evaluate the slurry system application rate and cure time.

404.08 Surface Preparation. Pavement markings shall be removed according to Article 783.03(a). Only very small particles of tightly adhering existing markings may remain in place.

When specified on the plans, pavement markers shall be removed according to Article 783.03(b).

Bumps greater than or equal to 1/2 in. (13 mm) shall be removed by grinding. The Contractor shall determine bump grinding locations in the presence of the Engineer by using a 16-ft (5-m) straightedge with the scratcher bolts set to 1/2 in. (13 mm). All locations marked by the scratcher bolts shall be ground using either a grinding machine consisting of multiple saws or a cold-milling machine with a double- or triple-wrap milling head.

Joints and cracks 3/16 in. (5 mm) or wider shall be cleaned of loose and unsound material and filled. The sealant shall be applied only when the joints and cracks are clean and dry, and the ambient temperature is 40-85 °F (4-29 °C). The sealant shall be applied using a pressurized wand delivery system with such devices as necessary to fill the cracks/joints and form a nominal 0.125 in. (3 mm) thick by 3 in. (75 mm) wide overseal band centered so the center of the 3 in. (75 mm) wide band is within 1 in. (25 mm) of the crack. The sealant shall be allowed to cure before opening to traffic. When approved by the Engineer, the sealant may be dusted with fine sand, Portland cement, or mineral filler to prevent tracking.

404.09 Micro-Surfacing. The micro-surfacing shall be applied as shown on the plans and the following.

- (a) Preparation. Prior to applying the micro-surfacing, the pavement surface shall be cleaned. On highly oxidized surfaces, a tack coat shall be applied uniformly at a rate that will provide a residual rate of 0.025 lb/sq ft (0.122 kg/sq m) according to Article 406.05(b). Manholes, valve boxes, drop inlets, and other service entrances shall be protected from the micro-surfacing by a suitable method. The surface preparation shall be approved by the Engineer prior to the application of the micro-surfacing. No dry aggregate either spilled from the lay-down machine or existing on the road will be permitted.
- (b) Application. The Contractor shall apply the micro-surfacing according to the following methods.
 - (1) Micro-Surfacing Rut-Filling. This method shall consist of filling each of the two wheelpath ruts in a lane using the specially designed rutbox and

the ruffill mix. It shall be the Contractor's responsibility to determine and estimate the quantities of ruffill mix required for rut-filling. This work is then followed by one pass of micro-surfacing as described below.

- (2) Micro-Surfacing, Single Pass. This method shall consist of applying the surface mix over the entire width of each lane in one pass at an application rate of 20 lb/sq yd (11 kg/sq m).

Determinations of application rates shall be from daily readings taken from the material control devices during the progress of the work.

The pavement surface shall be prewetted by water fogging ahead of the spreader box when road conditions require, as determined by the Engineer. The rate of fogging shall be adjusted during the day based on pavement temperature, surface texture, and dryness.

The paving mixture shall be spread to fill minor cracks and shallow potholes and leave a uniform surface. Care shall be taken when rut-filling to restore the designed profile of the pavement cross section. Excess crowning (over-filling) of rut areas shall be avoided. A sufficient amount of material shall be carried at all times in all parts of the spreader box to ensure complete coverage. Overloading of the spreader shall be avoided. No lumps or uncoated aggregate will be permitted in the finished surface.

Adjustments to the mix design may be required during construction, based on field conditions. The percent of mineral filler in the mix design may be increased or decreased by less than 0.3 percent when the micro-surfacing is being placed if it is found to be necessary for better consistency or set times. The Engineer will give final approval for all adjustments.

- (c) Mix Consistency. The finished product shall be uniform in color and composition. No streaks, such as those caused by oversized aggregate, shall be left in the finished surface. If excess streaking develops, the job shall be stopped until the Contractor proves to the Engineer that the situation has been corrected. Excessive streaking is defined as more than four drag marks greater than 1/2 in. (13 mm) wide and 4 in. (100 mm) long, or 1 in. (25 mm) wide and 3 in. (75 mm) long, in any 30 sq yd (25 sq m) area. No transverse ripples or longitudinal streaks of 0.25 in. (6 mm) in depth will be permitted, when measured by placing a 10 ft (3 m) straightedge over the surface.
- (d) Mix Stability. The micro-surfacing shall possess sufficient stability so that premature breaking of the material in the spreader box does not occur. The mixture shall be homogeneous during and following mixing and spreading. It shall be free of excess water or emulsified asphalt and free of segregation of the emulsified asphalt and aggregate fines from the coarser aggregate. Under no circumstances shall water be sprayed directly into the lay-down box while placing micro-surfacing material.
- (e) Joints and Edges. The Contractor shall devise a joint plan according to ISSA A143 and submit to the Engineer for approval. When practical, the

surface course joint shall be at least 10 in. (255 mm) away from the nearest edge of any subsequent permanent pavement markings.

Micro-surfacing edges shall be parallel with the existing pavement edges. If the existing pavement edge cannot be used to give a straight edge, a stringline or other guide will be required. Edge lines shall not vary by more than ± 2 in. (50 mm) horizontally in any 100 ft (30 m) of length.

A smooth, neat seam shall be provided where two passes meet. Excess material shall be immediately removed from the ends of each run. Any damage to, or irregularities in, the micro-surfacing shall be repaired, as directed by the Engineer. All repairs shall be made with a paver box, except areas designated as hand work areas.

- (f) Hand Work. Those areas inaccessible to the spreader box and approved by the Engineer shall be designated as hand work areas. Adjustments to the additive will be permitted to provide a slower setting time when hand spreading is needed. If hand spreading is necessary, the mixture shall be poured in a small windrow along one edge of the surface to be covered and then spread uniformly by a hand squeegee or lute. Hand work areas shall have an appearance consistent with that being placed with a spreader box.

404.10 Slurry Sealing. The slurry seal shall be applied as follows.

- (a) Preparation. Prior to applying the slurry seal, the pavement surface shall be cleaned. On highly oxidized surfaces, a tack coat shall be applied uniformly at a rate that will provide a residual asphalt rate of 0.025 lb/sq ft (0.122 kg/sq m) according to Article 406.05(b). Manholes, valve boxes, drop inlets, and other service entrances shall be protected from the slurry seal by a suitable method. The surface preparation shall be approved by the Engineer prior to application of the slurry seal. No dry aggregate either spilled from the lay-down machine or existing on the road, will be permitted.
- (b) Application. The slurry seal shall be applied over the entire width of each lane in a single pass at a rate of 20 lb/sq yd (11 kg/sq m). The application rate shall be verified from daily readings taken from the proportioning devices during the progress of the work.

The pavement surface shall be prewetted by water fogging ahead of the spreader box when road conditions require, as determined by the Engineer. The rate of fogging shall be adjusted during the day based on pavement temperature, surface texture, and dryness.

The paving mixture shall be spread to fill minor cracks and shallow potholes and leave a uniform surface. A sufficient amount of material shall be carried at all times in all parts of the spreader box to ensure complete coverage. Overloading of the spreader shall be avoided. No lumps or uncoated aggregate will be permitted in the finished surface.

Adjustments to the mix design may be required during construction, based on field conditions. The percent of mineral filler in the mix design may be increased or decreased by less than 0.3 percent when the slurry seal is

being placed if it is found to be necessary for better consistency or set times. The Engineer will give final approval for all adjustments.

- (c) **Mix Consistency.** The finished product shall be uniform in color and composition. No streaks, such as those caused by oversized aggregate, shall be left in the finished surface. If excess streaking develops, the job shall be stopped until the Contractor proves to the Engineer that the situation has been corrected. Excessive streaking is defined as more than four drag marks greater than 1/2 in. (13 mm) wide and 4 in. (100 mm) long, or 1 in. (25 mm) wide and 3 in. (75 mm) long, in any 30 sq yd (25 sq m) area. No transverse ripples or longitudinal streaks of 0.25 in. (6 mm) in depth will be permitted, when measured by placing a 10 ft (3 m) straightedge over the surface.
- (d) **Mix Stability.** The slurry seal shall possess sufficient stability so that premature breaking of the material in the spreader box does not occur. The mixture shall be homogeneous during and following mixing and spreading. It shall be free of excess water or emulsified asphalt and free of segregation of the emulsified asphalt and aggregate fines from the coarser aggregate. Under no circumstances shall water be sprayed directly into the lay-down box while placing slurry seal material.
- (e) **Joints and Edges.** The Contractor shall devise a joint plan according to ISSA A105 and submit it to the Engineer for approval. When practical, the surface course joint shall be at least 10 in. (255 mm) away from the nearest edge of any subsequent permanent pavement markings.

Slurry seal edges shall be parallel with the existing pavement edges. If the existing pavement edge cannot be used to give a straight edge, a stringline or other guide will be required. Edge lines shall not vary by more than ± 2 in. (50 mm) horizontally in any 100 ft (30 m) of length.

A smooth, neat seam shall be provided where two passes meet. Excess material shall be immediately removed from the ends of each run. Any damage to, or irregularities in, the slurry seal shall be repaired, as directed by the Engineer. All repairs shall be made with a paver box, except areas designated as hand work areas.

- (f) **Hand Work.** Those areas inaccessible to the spreader box and approved by the Engineer shall be designated as hand work areas. Adjustments to the additive will be permitted to provide a slower setting time when hand spreading is needed. If hand spreading is necessary, the mixture shall be poured in a small windrow along one edge of the surface to be covered and then spread uniformly by a hand squeegee or lute. Hand work areas shall have an appearance consistent with that being placed with a spreader box.

404.11 Clean-Up. All areas, such as manholes, gutters, and intersections, shall have the slurry system removed as specified by the Engineer. The Contractor shall, on a daily basis, remove any debris associated with the performance of the work.

404.12 Sampling and Testing. The Contractor shall check yield of the application after the first 1000 ft (300 m), and throughout each day's paving, with a minimum of three tests per day. Yield check results shall be furnished to the Engineer daily.

The Contractor shall submit a daily "run sheet" for each day's work as soon as all the data is available. The run sheet shall provide a breakdown of the actual meter numbers and quantities of all materials actually used each day, as well as the respective locations.

404.13 Opening to Traffic.

- (a) Micro-Surfacing. The micro-surfacing shall be opened to traffic within one hour of its application.
- (b) Slurry Seal. The slurry seal shall be opened to traffic within two hours of its application.

404.14 Curing. The slurry system shall cure for a minimum of 7 days before placement of the permanent pavement markings.

404.15 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).
- (b) Measured Quantities. Crack/Joint sealing will be measured for payment in feet (meters), measured along the crack.

Pavement marking removal will be measured for payment according to Article 783.05.

The micro-surfacing will be measured according to the following for the method of application provided on the plans.

- (1) Micro-Surfacing Rut-Filling. Micro-surfacing rut-filling will be measured for payment in place in feet (meters) along the wheel path or filled rut.
- (2) Micro-Surfacing, Single Pass. Micro-surfacing, single pass will be measured for payment in place and the area computed in square yards (square meters). The width for measurement will be the width of the top surface as shown on the plans or as directed by the Engineer.

The slurry seal will be measured for payment in place and the area computed in square yards (square meters). The width for measurement will be the width of the top surface as shown on the plans or as directed by the Engineer.

Tack coat, when required, will be measured for payment according to Article 406.13(b).

404.16 Basis of Payment. Crack/joint sealing will be paid for at the contract unit price per foot (meter) of FIBER-MODIFIED ASPHALT CRACK SEALING.

Bump removal will be paid for at the contract unit price per each for BUMP REMOVAL.

Pavement marking removal and pavement marker removal will be paid for according to Article 783.06.

Rut-filling will be paid for at the contract unit price per foot (meter) for MICRO-SURFACING RUT-FILLING.

Micro-surfacing, single pass will be paid for at the contract unit price per square yard (square meter) for MICRO-SURFACING, SINGLE PASS, of the friction aggregate mixture specified.

Slurry seal will be paid for at the contract unit price per square yard (square meter) for ASPHALTIC EMULSION SLURRY SEAL, of the friction aggregate mixture specified.

Tack coat, when required, will be paid for according to Article 406.14."

State of Illinois
Department of Transportation

SUPPLEMENTAL SPECIFICATION
FOR
SECTION 1102. HOT-MIX ASPHALT EQUIPMENT

This Supplemental Specification amends the provisions of the Standard Specifications for Road and Bridge Construction, adopted April 1, 2016 and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

1102.08 Reserved. Revise this Article to read:

“1102.08 Slurry Systems Mixing Machine. The machine shall be either a continuous (self-loading) machine or a non-continuous (self-contained) machine depending on the size of the project as described below. Both types of machines shall have sufficient storage capacity for aggregate, emulsified asphalt, mineral filler, control additive, and water to maintain an adequate supply to the proportioning controls. The mixing unit shall be able to accurately deliver and proportion the aggregate, emulsified asphalt, mineral filler, control setting additive, and water to a revolving multi-blade, double-shafted mixer.

Machines that are the continuous (self-loading) type shall be an automatic-sequenced, self-propelled, continuous-flow mixing unit able to discharge the mixed product on a continuous-flow basis. The machine shall be equipped to allow the operator to have full control of the forward and reverse speeds during applications of the material and be equipped with opposite-side driver stations to assist in alignment.

Non-continuous (self-contained) machines will be allowed on projects with a length of 2 lane-miles (3.2 lane-km) or less. For mainline paving, the Contractor shall have at least three self-contained machines in continuous operation to ensure appropriate production rates. Self-contained machines will also be allowed on shoulders, ramps, short applications such as bridge decks, or where the material can be placed in a single loading capacity of the machine.

Each mixing unit to be used in the performance of the work shall be calibrated in the presence of the Engineer prior to construction. Each new or different aggregate requires a new calibration. Previous calibration documentation covering the exact materials to be used may be acceptable, provided that no more than 30 days have lapsed. The documentation shall include an individual calibration of each material at various settings, which can be related to the machine metering devices. Prior to the calibration process, portable scales used to calibrate the mixing machine for emulsion and aggregate shall be checked with 25 lb and 50 lb weights, respectively. Results from the standard weight checks shall be furnished to the Engineer. No machine will be allowed to work on the project until the calibration has been completed and/or accepted.”

1102.09 Reserved. Revise this Article to read:

“1102.09 Slurry Systems Spreader. The mixture shall be agitated and spread uniformly in the surfacing box by means of twin shafted paddles or spiral augers fixed in the spreader box. A front seal shall be provided to ensure no loss of the mixture at the road contact point. The rear seal shall act as a final strike-off and shall be adjustable. The spreader box and rear strike-off shall be so designed and operated that a uniform consistency is achieved to produce a free flow of material to the rear strike-off. The spreader box shall have suitable means provided to side shift the box to compensate for variations in the pavement geometry.

A secondary strike-off shall be provided to improve surface texture on the surface course. The secondary strike-off shall have the same adjustments as the spreader box and shall not bounce, wobble, or chatter.

When required on the plans, before the final surface course is placed, preliminary micro-surfacing material may be required to fill ruts, utility cuts, depressions in the existing surface, etc. Ruts of 1/2 in. (13 mm) or greater in depth shall be filled independently with a rut-filling spreader box, either 5 or 6 ft (1.5 or 1.8 m) in width. For irregular or shallow rutting of less than 1/2 in. (13 mm) in depth, a full-width scratch-coat pass may be used as directed by the Engineer utilizing either a stiff primary rubber or else a metal primary strike off. Ruts that are in excess of 1 1/2 in. (38 mm) in depth may require multiple placements with the rut-filling spreader box to restore the cross-section. All rut-filling level-up material should cure under traffic for a minimum of 24 hours before additional material is placed on top of the level up.”

1102.10 Reserved. Revise this Article to read:

“1102.10 Slurry Systems Proportioning Devices. Individual volume or weight controls for proportioning each material to be added to the mix (i.e. aggregate, mineral filler, emulsified asphalt, additive, and water) shall be provided and properly marked. These proportioning devices are used in material calibration and determining the material output at any time. Calibration records, conversion formulas, and daily run sheets including the beginning and final numbers shown on the proportioning devices shall be submitted to the Engineer for approval. During production any deviations from the original job mix formula shall be approved by the Engineer.”



The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	83
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	86
3	<input type="checkbox"/> EEO	87
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	97
5	<input type="checkbox"/> Required Provisions - State Contracts	102
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	108
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	109
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	110
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	111
10	<input type="checkbox"/> Construction Layout Stakes	114
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	117
12	<input type="checkbox"/> Subsealing of Concrete Pavements	119
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	123
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	125
15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	126
16	<input type="checkbox"/> Polymer Concrete	128
17	<input type="checkbox"/> PVC Pipeliner	130
18	<input type="checkbox"/> Bicycle Racks	131
19	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	133
20	<input type="checkbox"/> Work Zone Public Information Signs	135
21	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	136
22	<input type="checkbox"/> English Substitution of Metric Bolts	137
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
25	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	147
26	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	163
27	<input type="checkbox"/> Reserved	165
28	<input type="checkbox"/> Preventive Maintenance - Bituminous Surface Treatment (A-1)	166
29	<input type="checkbox"/> Reserved	172
30	<input type="checkbox"/> Reserved	173
31	<input type="checkbox"/> Reserved	174
32	<input type="checkbox"/> Temporary Raised Pavement Markers	175
33	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	176
34	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	179
35	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	183
36	<input type="checkbox"/> Longitudinal Joint and Crack Patching	186

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
LRS 1	<input type="checkbox"/> Reserved	189
LRS 2	<input type="checkbox"/> Furnished Excavation	190
LRS 3	<input checked="" type="checkbox"/> Work Zone Traffic Control Surveillance	191
LRS 4	<input checked="" type="checkbox"/> Flaggers in Work Zones	192
LRS 5	<input checked="" type="checkbox"/> Contract Claims	193
LRS 6	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	194
LRS 7	<input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	200
LRS 8	Reserved	206
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	207
LRS 10	Reserved	208
LRS 11	<input checked="" type="checkbox"/> Employment Practices	209
LRS 12	<input checked="" type="checkbox"/> Wages of Employees on Public Works	211
LRS 13	<input checked="" type="checkbox"/> Selection of Labor	213
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	214
LRS 15	<input checked="" type="checkbox"/> Partial Payments	217
LRS 16	<input checked="" type="checkbox"/> Protests on Local Lettings	218
LRS 17	<input checked="" type="checkbox"/> Substance Abuse Prevention Program	219
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	220

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 checked="" 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	
50261 7	<input type="checkbox"/> Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50481 8	<input type="checkbox"/> Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50491 9	<input type="checkbox"/> Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50531 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 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 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 checked="" 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 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 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 checked="" 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 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 checked="" 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 checked="" 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 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 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 checked="" type="checkbox"/>	Ultra-Thin Bonded Wearing Course	April 1, 2020	
80288	71	<input 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 checked="" 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

AUTOMATED FLAGGER ASSISTANCE DEVICES (BDE)

Effective: January 1, 2008

Description. This work shall consist of furnishing and operating automated flagger assistance devices (AFADs) as part of the work zone traffic control and protection for two-lane highways where two-way traffic is maintained over one lane of pavement. Use of these devices shall be at the option of the Contractor.

Equipment. AFADs shall be according to the FHWA memorandum, "MUTCD - Revised Interim Approval for the use of Automated Flagger Assistance Devices in Temporary Traffic Control Zones (IA-4R)", dated January 28, 2005. The devices shall be mounted on a trailer or a moveable cart and shall meet the requirements of NCHRP 350, Category 4.

The AFAD shall be the Stop/Slow type. This device uses remotely controlled "STOP" and "SLOW" signs to alternately control right-of-way.

Signs for the AFAD shall be according to Article 701.03 of the Standard Specifications and the MUTCD. The signs shall be 24 x 24 in. (600 x 600 mm) having an octagon shaped "STOP" sign on one side and a diamond shaped "SLOW" sign on the opposite side. The letters on the signs shall be 8 in. (200 mm) high. If the "STOP" sign has louvers, the full sign face shall be visible at a distance of 50 ft (15 m) and greater.

The signs shall be supplemented with one of the following types of lights.

- (a) Flashing Lights. When flashing lights are used, white or red flashing lights shall be mounted within the "STOP" sign face and white or yellow flashing lights within the "SLOW" sign face.
- (b) Stop and Warning Beacons. When beacons are used, a stop beacon shall be mounted 24 in. (600 mm) or less above the "STOP" sign face and a warning beacon mounted 24 in. (600 mm) or less above, below, or to the side of the "SLOW" sign face. As an option, a Type B warning light may be used in lieu of the warning beacon.

A "WAIT ON STOP" sign shall be placed on the right hand side of the roadway at a point where drivers are expected to stop. The sign shall be 24 x 30 in. (600 x 750 mm) with a black legend and border on a white background. The letters shall be at least 6 in. (150 mm) high.

This device may include a gate arm or mast arm that descends to a horizontal position when the "STOP" sign is displayed and rises to a vertical position when the "SLOW" sign is displayed. When included, the end of the arm shall reach at least to the center of the lane being controlled. The arm shall have alternating red and white retroreflective stripes, on both sides, sloping downward at 45 degrees toward the side on which traffic will pass. The stripes shall be 6 in. (150 mm) in width and at least 2 in. (50 mm) in height.

Flagging Requirements. Flaggers and flagging requirements shall be according to Article 701.13 of the Standard Specifications and the following.

AFADs shall be placed at each end of the traffic control, where a flagger is shown on the plans. The flaggers shall be able to view the face of the AFAD and approaching traffic during operation.

To stop traffic, the "STOP" sign shall be displayed, the corresponding lights/beacon shall flash, and when included, the gate arm shall descend to a horizontal position. To permit traffic to move, the "SLOW" sign shall be displayed, the corresponding lights/beacon shall flash, and when included, the gate arm shall rise to a vertical position.

If used at night, the AFAD location shall be illuminated according to Section 701 of the Standard Specifications.

When not in use, AFADs will be considered nonoperating equipment and shall be stored according to Article 701.11 of the Standard Specifications.

Basis of Payment. This work will not be paid for separately but shall be considered as included in the cost of the various traffic control items included in the contract.

80192

EMULSIFIED ASPHALTS (BDE)

Effective: August 1, 2019

Revise Article 1032.06 of the Standard Specifications to read:

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

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

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

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

1/ The emulsion shall be pumpable.

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

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

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

- (e) Delete this subparagraph.

- (f) Polymer Modified Emulsified Asphalt. Polymer modified emulsified asphalts, e.g. SS-1hP, CSS-1hP, CRS-2P (formerly CRSP), CQS-1hP (formerly CSS-1h Latex Modified) and HFRS-2P (formerly HFP) shall be according to AASHTO M 316, except as follows.

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

(6) The Solubility in Trichloroethylene test according to AASHTO T 44 may be run in lieu of Ash Content and shall meet a minimum of 97.5 percent.

(g) Non-Tracking Emulsified Asphalt. Non-tracking emulsified asphalt NTEA (formerly SS-1vh) shall be according to the following.

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

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

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

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

MICRO-SURFACING AND SLURRY SEALING (BDE)

Effective: January 1, 2020

Revise the following note of Article 404.02 of the Supplemental Specifications to read:

"Note 2. The fine aggregate material shall be Class B quality and the gradation shall be FA 23 or FA 24 as specified on the plans. Rut filling mixes shall be constructed using FA 23 gradation. Surface mixes shall be constructed using FA 24 gradation.

The aggregate shall be sand, stone sand, wet bottom boiler slag, slag sand, granulated slag sand, steel slag sand, and crushed concrete sand. The blending, alternate use, and/or substitutions of aggregates from different sources for use in this work will not be permitted without the approval of the Engineer. Any blending shall be by interlocked mechanical feeders. The blending shall be uniform, compatible with the other components of the mix, and the equipment shall be approved by the Engineer.

If blending aggregates, the blend shall have a washed gradation performed every other day or a minimum of three tests per week. Testing shall be completed before the aggregate receives final acceptance for use in the mix.

Aggregates shall be screened at the stockpile prior to delivery to the paving machine to remove oversized material or contaminants."

Revise Article 404.07 of the Supplemental Specifications to read:

"**404.07 Test Strip.** For projects over 70,000 sq yd (58,500 sq m), at least one day prior to starting the project the Contractor shall designate a mutually agreeable location and apply a test strip of the slurry system using the aggregate indicated in the mix design. The test strip shall be placed during the same time of day in which the normal placement will take place. The Engineer will evaluate the slurry system application rate and cure time."

Revise the second paragraph of Article 404.08 of the Supplemental Specifications to read:

"Raised reflective pavement markers shall be removed according to Article 783.03(b) and holes filled with HMA or rut filling mix."

Revise the second sentence of Article 404.09(a) of the Supplemental Specifications to read:

"A tack coat shall be applied uniformly at a rate that will provide a residual rate of 0.025 lb/sq ft (0.122 kg/sq m) for HMA surfaces and/or 0.05 lb/sq ft (0.244 kg/sq m) for concrete surfaces according to Article 406.05(b)."

Revise the last sentence of Article 404.09(b)(1) of the Supplemental Specifications to read:

"This work is then followed by the micro-surfacing type shown in the plans and as described below."

Revise Article 404.09(b)(2) of the Supplemental Specifications to read:

"(2) Micro-Surfacing, Single Pass. This method shall consist of applying the surface mix over the entire width of each lane in one pass at an application rate of not less than 20 lb/sq yd (11 kg/sq m)."

Add the following to Article 404.09(b) of the Supplemental Specifications:

"(3) Micro-Surfacing, 2 Passes. This method shall consist of applying the surface mix over the entire width of each lane in two passes to provide a total rate of application of not less than 32 lb/sq yd (17 kg/sq m). The rate of application per pass shall be 16 ± 3 lb/sq yd (9 ± 1.6 kg/sq m). Unless otherwise directed by the Engineer, all hand work shall be completed during the first pass.

The second pass shall be placed not less than 18 hours after placing the first pass and the first pass is free of surface moisture."

Revise the second sentence of Article 404.10(a) of the Supplemental Specifications to read:

"A tack coat shall be applied uniformly at a rate that will provide a residual rate of 0.025 lb/sq ft (0.122 kg/sq m) according to Article 406.05(b)."

Add the following to Article 404.15(b) of the Supplemental Specifications:

"(3) Micro-surfacing, 2 Passes. Micro-surfacing, 2 passes will be measured for payment in place and the area computed in square yards (square meters). The width for measurement will be the width of the top surface as shown on the plans or as directed by the Engineer."

Revise the fifth and sixth paragraphs of Article 404.16 of the Supplemental Specifications to read:

"Micro-surfacing, single pass will be paid for at the contract unit price per square yard (square meter) for MICRO-SURFACING, SINGLE PASS.

Slurry seal will be paid for at the contract unit price per square yard (square meter) for ASPHALTIC EMULSION SLURRY SEAL."

Add the following to Article 404.16 of the Supplemental Specifications:

"Micro-surfacing, 2 passes will be paid for at the contract unit price per square yard (square meter) for MICRO-SURFACING, 2 PASSES."

Add the following gradations to the tables in Article 1003.01(c) of the Standard Specifications:

"FINE AGGREGATE GRADATIONS											
Grad No.	Sieve Size and Percent Passing										
	3/8	No. 4	No. 8 ^{4/}	No. 10	No. 16	No. 30 ^{5/}	No. 40	No. 50	No. 80	No. 100	No. 200 ^{1/}
FA 23	100	80±10	57±13		39±11	26±8		18±7		12±6	10±5
FA 24	100	95±5	77±13		57±13	35±10		19±6		15±6	10±5

FINE AGGREGATE GRADATIONS (Metric)											
Grad No.	Sieve Size and Percent Passing										
	9.5 mm	4.75 mm	2.36 mm ^{4/}	2.00 mm	1.18 mm	600 μm ^{5/}	425 μm	300 μm	180 μm	150 μm	75 μm ^{1/}
FA 23	100	80±10	57±13		39±11	26±8		18±7		12±6	10±5
FA 24	100	95±5	77±13		57±13	35±10		19±6		15±6	10±5"

80424

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:

McLean County

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

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

SPECIAL PROVISION
FOR
EQUIPMENT RENTAL RATES

Effective: January 1, 2012

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

Replace Article 109.04(b)(4) with the following:

- "(4) Equipment. For any machinery or special equipment (other than small tools) the use of which has been authorized by the Engineer, the Contractor will be paid according to the latest revision of "SCHEDULE OF AVERAGE ANNUAL EQUIPMENT OWNERSHIP EXPENSE" and latest index factor as issued by the Illinois Department of Transportation. The equipment should be of a type and size reasonably required to complete the extra work."

McLean County Prevailing Wage Rates posted on 3/3/2020

Trade Title	Rg	Type	C	Base	Foreman	Overtime					Pension	Vac	Trng	Other Ins
						M-F	Sa	Su	Hol	H/W				
ASBESTOS ABT-GEN	All	BLD		31.31	32.31	1.5	1.5	2.0	2.0	8.40	15.50	0.00	0.80	
ASBESTOS ABT-GEN	All	HWY		33.49	34.04	1.5	1.5	2.0	2.0	8.40	16.48	0.00	0.80	
ASBESTOS ABT-MEC	All	BLD		32.78	35.28	1.5	1.5	2.0	2.0	13.42	12.20	0.00	0.72	
BOILERMAKER	All	BLD		41.00	44.00	2.0	2.0	2.0	2.0	7.07	20.57	1.50	1.24	
BRICK MASON	All	BLD		31.36	32.86	1.5	1.5	2.0	2.0	10.60	15.40	0.00	0.84	0.09
CARPENTER	All	BLD		33.04	35.29	1.5	1.5	2.0	2.0	8.65	18.75	0.00	0.55	
CARPENTER	All	HWY		35.43	37.68	1.5	1.5	2.0	2.0	8.65	19.60	0.00	0.52	
CEMENT MASON	All	ALL		33.42	34.42	1.5	1.5	2.0	2.0	6.70	16.39	0.00	0.63	
CEMENT MASON	All	HWY		34.43	35.68	1.5	1.5	2.0	2.0	35.68	15.85	0.00	0.60	
CERAMIC TILE FINISHER	All	BLD		32.63	32.63	1.5	1.5	2.0	2.0	10.60	11.70	0.00	0.82	
ELECTRIC PWR EQMT OP	All	ALL		46.47	55.07	1.5	1.5	2.0	2.0	7.39	13.01	0.00	0.69	
ELECTRIC PWR GRNDMAN	All	ALL		31.69	55.07	1.5	1.5	2.0	2.0	6.95	8.87	0.00	0.48	
ELECTRIC PWR LINEMAN	All	ALL		51.67	55.07	1.5	1.5	2.0	2.0	7.55	14.47	0.00	0.78	
ELECTRIC PWR TRK DRV	All	ALL		33.25	55.07	1.5	1.5	2.0	2.0	7.00	9.31	0.00	0.50	
ELECTRICIAN	E	BLD		42.48	45.03	1.5	1.5	2.0	2.0	7.25	10.42	0.00	0.64	
ELECTRICIAN	W	BLD		38.01	41.81	1.5	1.5	2.0	2.0	7.33	11.91	0.00	1.00	
ELECTRONIC SYSTEM TECH	E	BLD		32.28	34.28	1.5	1.5	2.0	2.0	7.25	10.32	0.00	0.40	
ELECTRONIC SYSTEM TECH	W	BLD		33.50	35.50	1.5	1.5	2.0	2.0	7.25	9.10	0.00	0.40	
ELEVATOR CONSTRUCTOR	All	BLD		47.72	53.68	2.0	2.0	2.0	2.0	15.72	18.41	3.82	0.63	
FENCE ERECTOR	E	ALL		36.82	38.82	1.5	1.5	2.0	2.0	10.66	15.47	0.00	0.64	
GLAZIER	All	BLD		35.87	37.87	1.5	1.5	1.5	2.0	12.25	8.90	0.00	1.25	
HEAT/FROST INSULATOR	All	BLD		43.70	46.20	1.5	1.5	2.0	2.0	13.42	13.66	0.00	0.72	
IRON WORKER	E	ALL		33.89	35.79	1.5	1.5	2.0	2.0	11.29	12.34	0.00	1.11	
IRON WORKER	W	BLD		32.81	34.71	1.5	1.5	2.0	2.0	11.26	17.07	0.00	0.74	
IRON WORKER	W	HWY		38.20	40.20	1.5	1.5	2.0	2.0	11.26	17.07	0.00	0.74	
LABORER	All	BLD		30.31	31.31	1.5	1.5	2.0	2.0	8.40	15.50	0.00	0.80	
LABORER	All	HWY		32.49	33.04	1.5	1.5	2.0	2.0	8.40	16.48	0.00	0.80	
LABORER, SKILLED	All	BLD		30.31	31.31	1.5	1.5	2.0	2.0	8.40	15.50	0.00	0.80	
LABORER, SKILLED	All	HWY		32.49	33.04	1.5	1.5	2.0	2.0	8.40	16.48	0.00	0.80	
LATHER	All	BLD		33.04	35.29	1.5	1.5	2.0	2.0	8.65	18.75	0.00	0.55	
MACHINERY MOVER	W	HWY		36.82	38.82	1.5	1.5	2.0	2.0	10.66	15.47	0.00	0.64	

MACHINIST	All	BLD		48.93	51.43	1.5	1.5	2.0	2.0	7.68	8.95	1.85	1.32
MARBLE FINISHER	All	BLD		32.63	32.63	1.5	1.5	2.0	2.0	10.60	11.70	0.00	0.82
MARBLE MASON	All	BLD		35.37	36.62	1.5	1.5	2.0	2.0	10.60	11.70	0.00	0.84
MILLWRIGHT	All	BLD		32.53	34.78	1.5	1.5	2.0	2.0	8.65	19.69	0.00	0.55
MILLWRIGHT	All	HWY		35.55	37.80	1.5	1.5	2.0	2.0	8.65	20.05	0.00	0.52
OPERATING ENGINEER	All	BLD	1	40.74	43.74	1.5	1.5	2.0	2.0	10.25	20.65	0.00	3.60
OPERATING ENGINEER	All	BLD	2	37.71	43.74	1.5	1.5	2.0	2.0	10.25	20.65	0.00	3.60
OPERATING ENGINEER	All	BLD	3	32.70	43.74	1.5	1.5	2.0	2.0	10.25	20.65	0.00	3.60
OPERATING ENGINEER	All	HWY	1	40.75	43.75	1.5	1.5	2.0	2.0	10.25	20.65	0.00	3.60
OPERATING ENGINEER	All	HWY	2	37.72	43.75	1.5	1.5	2.0	2.0	10.25	20.65	0.00	3.60
OPERATING ENGINEER	All	HWY	3	32.71	43.75	1.5	1.5	2.0	2.0	10.25	20.65	0.00	3.60
PAINTER	All	ALL		37.35	39.35	1.5	1.5	1.5	2.0	12.35	9.05	0.00	1.35
PAINTER - SIGNS	All	BLD		39.84	44.74	1.5	1.5	2.0	2.0	2.73	3.39	0.00	0.00
PILEDRIVER	All	BLD		34.04	36.29	1.5	1.5	2.0	2.0	8.65	18.75	0.00	0.55
PILEDRIVER	All	HWY		35.43	37.68	1.5	1.5	2.0	2.0	8.65	19.60	0.00	0.52
PIPEFITTER	All	BLD		42.85	47.14	1.5	1.5	2.0	2.0	7.40	13.40	0.00	1.60
PLASTERER	All	BLD		30.30	32.30	1.5	1.5	2.0	2.0	8.75	19.68	0.00	0.90
PLUMBER	All	BLD		42.85	47.14	1.5	1.5	2.0	2.0	7.40	13.40	0.00	1.60
ROOFER	All	BLD		31.50	34.65	1.5	1.5	2.0	2.0	9.50	10.20	0.00	0.30
SHEETMETAL WORKER	All	BLD		34.19	35.90	1.5	1.5	2.0	2.0	10.12	17.74	0.00	0.98
SIGN HANGER	W	HWY		36.82	38.82	1.5	1.5	2.0	2.0	10.66	15.47	0.00	0.64
SPRINKLER FITTER	All	BLD		41.97	44.72	1.5	1.5	2.0	2.0	10.23	12.59	0.00	0.52
STEEL ERECTOR	W	HWY		36.82	38.82	1.5	1.5	2.0	2.0	10.66	15.47	0.00	0.64
TERRAZZO FINISHER	All	BLD		32.63	32.63	1.5	1.5	2.0	2.0	10.60	11.70	0.00	0.82
TERRAZZO MASON	All	BLD		35.37	36.62	1.5	1.5	2.0	2.0	10.60	11.70	0.00	0.84
TILE MASON	All	BLD		35.37	36.62	1.5	1.5	2.0	2.0	10.60	11.70	0.00	0.84
TRUCK DRIVER	All	O&C	1	30.45	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	O&C	2	30.89	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	O&C	3	31.10	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	O&C	4	31.38	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	All	O&C	5	32.22	33.74	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	N	ALL	1	38.41	38.96	1.5	1.5	2.0	2.0	9.15	10.43	0.00	0.15
TRUCK DRIVER	N	ALL	2	38.56	38.96	1.5	1.5	2.0	2.0	9.15	10.43	0.00	0.15
TRUCK DRIVER	N	ALL	3	38.76	38.96	1.5	1.5	2.0	2.0	9.15	10.43	0.00	0.15
TRUCK DRIVER	N	ALL	4	38.96	38.96	1.5	1.5	2.0	2.0	9.15	10.43	0.00	0.15
TRUCK DRIVER	S	ALL	1	38.06	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25

TRUCK DRIVER	S	ALL	2	38.61	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	S	ALL	3	38.87	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	S	ALL	4	39.23	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25
TRUCK DRIVER	S	ALL	5	40.27	42.18	1.5	1.5	2.0	2.0	13.00	6.37	0.00	0.25

Legend

Rg Region

Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers

C Class

Base Base Wage Rate

OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

OT Sa Overtime pay required for every hour worked on Saturdays

OT Su Overtime pay required for every hour worked on Sundays

OT Hol Overtime pay required for every hour worked on Holidays

H/W Health/Welfare benefit

Vac Vacation

Trng Training

Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations MCLEAN COUNTY

ELECTRICIAN (EAST) – Townships of Cropsey, Anchor, Cheney's Grove, and Ballflower

ELECTRICIAN (WEST) – The entirety of McLean County except for the portions defined as the East region.

ELECTRONIC SYSTEMS TECHNICIAN (EAST) – Townships of Cropsey, Anchor, Cheney's Grove, and Ballflower

ELECTRONIC SYSTEMS TECHNICIAN (WEST) – The entirety of McLean County except for the portions defined as the East region.

FENCE ERECTOR - See Ironworkers.

IRONWORKERS (EAST) - That part of the county East of a diagonal line from Heyworth to a point half way between Chenoa and Weston.

TEAMSTERS (NORTH) - North of a straight line starting on the west side where Route 24 crosses McClean County line in a southeasterly direction to the most south-southwestern corner of Livingston County.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date. ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

LABORER, SKILLED - BUILDING

The skilled laborer building (BLD) classification shall encompass the following types of work, irrespective of the site of the work: tending of carpenters in unloading, handling, stockpiling and distribution operations, also other building crafts, mixing, handling, and conveying of all materials used by masons, plasterers and other building construction crafts, whether done by hand or by any process. The drying of plastering when done by salamander heat, and the cleaning and clearing of all debris. All work pertaining to and in preparation of asbestos abatement and removal. The building of scaffolding and staging for masons and plasterers. The excavations for buildings and all other construction, digging, of trenches, piers, foundations and holes, digging, lagging, sheeting, cribbing, bracing and propping of foundations, holes, caissons, cofferdams, and dikes, the setting of all guidelines for machine or hand excavation and subgrading. The mixing, handling, conveying, pouring, vibrating, gunniting and otherwise applying of concrete, whether by hand or other method of concrete for any walls, foundations, floors, or for other construction concrete sealant men. The wrecking, stripping, dismantling, and handling of concrete forms and false work, and the building of centers for fireproofing purposes. Boring machine, gas, electric or air in preparation for shoving pipe, telephone cable, and so forth, under highways, roads, streets and alleys. All hand and power operating cross cut saws when used for clearing. All work in compressed air construction. All work on acetylene burners in salvaging. The blocking and tamping of concrete. The laying of sewer tile and conduit, and pre-cast materials. The assembling and dismantling of all jacks and sectional scaffolding, including elevator construction and running of slip form jacks. The work of drill running and blasting, including wagon drills. The wrecking, stripping, dismantling, cleaning, moving and oiling of forms. The cutting off of concrete piles. The loading, unloading, handling and carrying to place of installation of all rods, (and materials for use in reinforcing) concrete and the hoisting of same and all signaling where hoist is used in this type of construction coming under the jurisdiction of the Laborers' Union. And, all other labor work not awarded to any other craft. Mortar mixers, kettlemen and carrier of hot stuff, tool crib men, watchmen (Laborer), firemen or salamander tenders, flagmen, deck hands, installation and maintenance of temporary gas-fired heating units, gravel box men, dumpmen and spotters, fencing Laborers, cleaning lumber, pit men, material checkers, dispatchers, unloading explosives, asphalt plant laborers, writer of scale tickets, fireproofing laborers, janitors, asbestos abatement and removal laborers,

handling of materials treated with oil, creosote, chloride, asphalt, and/or foreign material harmful to skin or clothing, Laborers with de-watering systems, gunnite nozzle men, laborers tending masons with hot material or where foreign materials are used, Laborers handling masterplate or similar materials, laser beam operator, concrete burning machine operator, material selector men working with firebrick or combustible material, dynamite men, track laborers, cement handlers, chloride handlers, the unloading and laborers with steel workers and re-bars, concrete workers (wet), luteman, asphalt raker, curb asphalt machine operator, ready mix scalemen, permanent, portable or temporary plant drilling machine operator, plaster tenders, underpinning and shoring of buildings, fire watch, signaling of all power equipment, to include trucks excavating equipment, etc., tree topper or trimmer when in connection to construction, tunnel helpers in free air, batch dumpers, kettle and tar men, tank cleaners, plastic installers, scaffold workers, motorized buggies or motorized unit used for wet concrete or handling of building materials, sewer workers, rod and chain men, vibrator operators, mortar mixer operator, cement silica, clay, fly ash, lime and plasters, handlers (bulk or bag), cofferdam workers, on concrete paving, placing, cutting and tying of reinforcing, deck hand, dredge hand and shore laborers, bankmen on floating plant, asphalt workers with machine & layers, grade checker, power tools, caisson workers, lead man on sewer work, welders, cutters, burners and torch men, chain saw operators, paving breaker, jackhammer and drill operator, layout man and/or drainage tile layer, steel form setters -- street and highway, air tamping hammerman, signal man on crane, concrete saw operator, screen man on asphalt pavers, front end man on chip spreader, multiple concrete duct -- lead man.

LABORER, SKILLED - HIGHWAY

The skilled laborer heavy and highway (HWY) classification shall encompass the following types of work, irrespective of the site of the work: handling of materials treated with oil, creosote, asphalt and/or any foreign materials harmful to skin or clothing, track laborers, chloride handlers, the unloading and loading with steel workers and re-bars, concrete workers (wet), tunnel helpers in free air, batch dumpers, mason tenders, kettle and tar men, plastic installers, scaffold workers, motorized buggies or motorized unit used for wet concrete or handling of building materials, laborers with de-watering systems, sewer workers plus depth, rod and chainmen, vibrator operators, mortar mixer operators, cement silica, clay, fly ash, lime and plasters, handlers (bulk or bag), cofferdam workers plus depth, on concrete paving, placing, cutting and tying or reinforcing, deck hand, dredge hand shore laborers, bankmen on floating plant, asphalt workers with machine, and layers, grade checker, power tools, stripping of all concrete forms excluding paving forms, dumpmen and spotters, when necessary, caisson workers plus depth, gunnite nozzle men, welders, cutters, burners and torchmen, chain saw operators, paving breaker, jackhammer and drill operators, layout man and/or drainage tile layer, steel form setters - street and highway, air tamping hammerman, signal man on crane, concrete saw operator, screedman on asphalt pavers, front end man on chip spreader, multiple concrete duct, luteman, asphalt raker, curb asphalt machine operator, ready mix scalemen (portable or temporary plant), laser beam operator, concrete burning machine operator, and coring machine operator.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION - SOUTH

Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks, vactor trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION - NORTH

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front. TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

OPERATING ENGINEERS - BUILDING

Class 1. Cranes; Overhead Cranes; Gradall; All Cherry Pickers; Mechanics; Central Concrete Mixing Plant Operator; Road Pavers (27E - Dual Drum - Tri Batchers); Blacktop Plant Operators and Plant Engineers; 3 Drum Hoist; Derricks; Hydro Cranes; Shovels; Skimmer Scoops; Koehring Scooper; Drag Lines; Backhoe; Derrick Boats; Pile Drivers and Skid Rigs; Clamshells; Locomotive Cranes; Dredge (all types) Motor Patrol; Power Blades - Dumore - Elevating and similar types; Tower Cranes (Crawler-Mobile) and Stationary; Crane-type Backfiller; Drott Yumbo and similar types considered as Cranes; Caisson Rigs; Dozer; Tournadozer; Work Boats; Ross Carrier; Helicopter; Tournapulls - all and similar types; Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Heavy Equipment Greaser; CMI, CMI Belt Placer, Auto Grade & 3 Track and similar types; Side Booms; Multiple Unit Earth Movers; Creter Crane; Trench Machine; Pump-crete-Belt Crete-Squeeze Cretes-Screw-type Pumps and Gypsum; Bulker & Pump - Operator will clean; Formless Finishing Machine; Flaherty Spreader or similar types; Screed Man on Laydown Machine; Wheel Tractors (industrial or Farm-type w/Dozer-Hoe-Endloader or other attachments); F.W.D. & Similar Types; Vermeer Concrete Saw.

Class 2. Dinkeys; Power Launches; PH One-pass Soil Cement Machine (and similar types); Pugmill with Pump; Backfillers; Euclid Loader; Forklifts; Jeeps w/Ditching Machine or other attachments; Tuneluger; Automatic Cement and Gravel Batching Plants; Mobile Drills (Soil Testing) and similar types; Gurries and Similar Types; (1) and (2) Drum Hoists (Buck Hoist and Similar Types); Chicago Boom; Boring Machine & Pipe Jacking Machine; Hydro Boom; Dewatering System; Straw Blower; Hydro Seeder; Assistant Heavy Equipment Greaser on Spread; Tractors (Track type) without Power Unit pulling Rollers; Rollers on Asphalt -- Brick Macadem; Concrete Breakers; Concrete Spreaders; Mule Pulling Rollers; Center Stripper; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Cement Finishing Machine; Barber Green or similar loaders; Vibro Tamper (All similar types) Self-propelled; Winch or Boom Truck; Mechanical Bull Floats; Mixers over 3 Bag to 27E; Tractor pulling Power Blade or Elevating

Grader; Porter Rex Rail; Clary Screed; Truck Type Hoptoe Oilers; Fireman; Spray Machine on Paving; Curb Machines; Truck Crane Oilers; Oil Distributor; Truck-Mounted Saws.

Class 3. Air Compressor; Power Subgrader; Straight Tractor; Trac Air without attachments; Herman Nelson Heater, Dravo, Warner, Silent Glo, and similar types; Roller: Five (5) Ton and under on Earth or Gravel; Form Grader; Crawler Crane & Skid Rig Oilers; Freight Elevators - permanently installed; Pump; Light Plant; Generator; Conveyor (1) or (2) - Operator will clean; Welding Machine; Mixer (3) Bag and Under (Standard Capacity with skip); Bulk Cement Plant; Oiler on Central Concrete Mixing Plant.

OPERATING ENGINEERS - HEAVY AND HIGHWAY CONSTRUCTION

CLASS 1. Cranes; Hydro Cranes; Shovels; Crane Type Backfiller; Tower, Mobile, Crawler, & Stationary Cranes; Derricks; Hoists (3 Drum); Draglines; Drott Yumbo & Similar Types considered as Cranes; 360 Degree Swing Excavator (Shears, Grapples, Movacs, etc.); Back Hoe; Derrick Boats; Pile Driver and Skid Rigs; Clam Shell; Locomotive - Cranes; Road Pavers - Single Drum - Dual Drum - Tri Batcher; Motor Patrols & Power Blades - Dumore - Elevating & Similar Types; Mechanics; Central Concrete Mixing Plant Operator; Asphalt Batch Plant Operators and Plant Engineers; Gradall; Caisson Rigs; Skimmer Scoop - Koering Scooper; Dredges (all types); Hoptoe; All Cherry Pickers; Work Boat; Ross Carrier; Helicopter; Dozer; Tournadozer; Tournapulls - all and similar types; Operation of Concrete and all Recycle Machines; Multiple Unit Earth Movers; Scoops (all sizes); Pushcats; Endloaders (all types); Asphalt Surfacing Machine; Slip Form Paver; Rock Crusher; Operation of Material Crusher, Screening Plants, and Tunnel Boring Machine; Heavy Equipment Greaser (top greaser on spread); CMI, Auto Grade, CMI Belt Placer & 3 Track and Similar Types; Side Booms; Asphalt Heater & Planer Combination (used to plane streets); Wheel Tractors (with Dozer, Hoe or Endloader Attachments); CAT Earthwork Compactors and Similar Types; Blaw Knox Spreader and Similar Types; Trench Machines; Pump Crete - Belt Crete - Squeeze Crete - Screw Type Pumps and Gypsum (operator will clean); Creter Crane; Operation of Concrete Pump Truck; Formless Finishing Machines; Flaherty Spreader or Similar Types; Screed Man on Laydown Machine; Vermeer Concrete Saw; Operation of Laser Screed; Span Saw; Dredge Leverman; Dredge Engineer; Lull or Similar Type; Hydro-Boom Truck; Operation of Guard Rail Machine; and Starting Engineer on Pipeline or Construction (11 or more pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc, and Ground Heater (Trailer Mounted).

CLASS 2. Bulker & Pump; Power Launches; Boring Machine & Pipe Jacking Machine; Dinkeys; Operation of Carts, Powered Haul Unit for a Boring Machine; P & H One Pass Soil Cement Machines and Similar Types; Wheel Tractors (Industry or Farm Type - Other); Back Fillers; Euclid Loader; Fork Lifts; Jeep w/Ditching Machine or Other Attachments; Tunneluger; Automatic Cement & Gravel Batching Plants; Mobile Drills - Soil Testing and Similar Types; Pugmill with Pump; All (1) and (2) Drum Hoists; Dewatering System; Straw Blower; Hydro-Seeder; Bump Grinders (self-propelled); Assistant Heavy Equipment Greaser; Apsco Spreader; Tractors (Track-Type) without Power Units Pulling Rollers; Rollers on Asphalt - Brick or Macadam; Concrete Breakers; Concrete Spreaders; Cement Strippers; Cement Finishing Machines & CMI Texture & Reel Curing Machines; Vibro-Tampers (All Similar Types Self-Propelled); Mechanical Bull Floats; Self-Propelled Concrete Saws; Truck Mounted Power Saws; Operation of Curb Cutters; Mixers - Over Three (3) Bags; Winch and Boom Trucks; Tractor Pulling Power Blade or Elevating Grader; Porter Rex Rail; Clary Screed; Mule Pulling Rollers; Pugmill without Pump; Barber Greene or Similar Loaders; Track Type Tractor w/Power Unit attached (minimum); Fireman; Spray Machine on Paving; Curb Machines; Paved Ditch Machine; Power Broom; Self-Propelled Sweepers; Self-Propelled Conveyors; Power Subgrader; Oil Distributor; Straight Tractor; Truck Crane Oiler; Truck Type Oilers; Directional Boring Machine; Horizontal Directional Drill; Articulating End Dump Vehicles; Starting Engineer on Pipeline or Construction (6 -10 pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted).

CLASS 3. Straight Framed Truck Mounted Vac Unit (separately powered); Trac Air Machine (without attachments); Rollers - Five Ton and Under on Earth and Gravel; Form Graders; Bulk Cement Plant; Oilers; and Starting Engineer on Pipeline or Construction (3

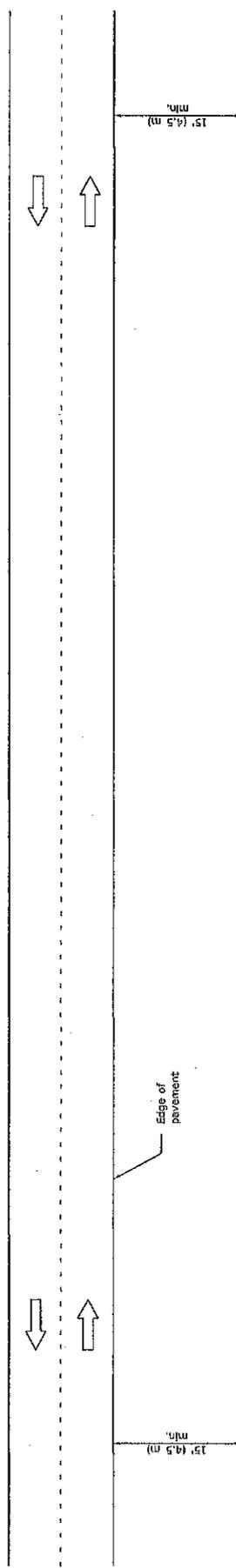
- 5 pieces) including: Air Compressor (Trailer Mounted), All Forced Air Heaters (regardless of Size), Water Pumps (Greater than 4-1/2" or Total Discharge Over 4-1/2"), Light Plants, Generators (Trailer Mounted - Excluding Decontamination Trailer), Welding Machines (Any Size or Mode of Power), Conveyor, Mixer (any size), Stud Welder, Power Pac, etc., and Ground Heater (Trailer Mounted).

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.



TYPICAL APPLICATIONS

- Landscaping work
- Utility work
- Fencing contracts and maintenance
- Cleaning culverts

GENERAL NOTES

This Standard is used where at all times, all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701006.

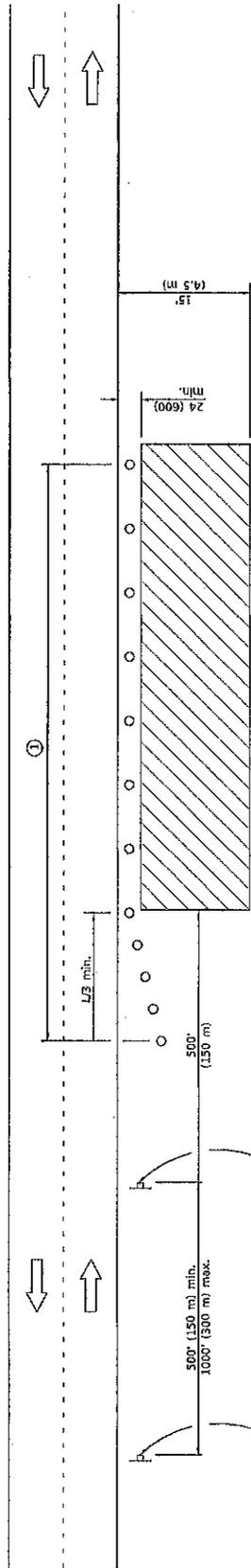
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-05	Revised title and notes.

**OFF-ROAD OPERATIONS,
2L, 2W, MORE THAN
15' (4.5 m) AWAY**

STANDARD 701001-02

Illinois Department of Transportation
 PASSED January 3, 2009
 ENGINEER OF OPERATIONS
 APPROVED [Signature] January 3, 2009
 ENVIRONMENT OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-07



For contract construction projects

ROAD CONSTRUCTION AHEAD

W20-10(10)-48

For maintenance and utility projects

ROAD WORK AHEAD

W23-10(10)-48

① When the work operation exceeds one hour, cones, drums or barricade shall be placed at 25' (8 m) centers for $L/3$ distance, and at 50' (15 m) centers through the remainder of the work area.

TYPICAL APPLICATIONS

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delimeter installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

SYMBOLS

- Work area
- Sign
- Cone, drum or barricade

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT		FORMULAS	
		English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{60}$	$L = 15S$
45 mph (80 km/h) or greater:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{60}$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters)
S = Normal posted speed mph (km/h)

All dimensions are in inches (millimeters) unless otherwise shown.

OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-05

DATE	REVISIONS
3-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text "WORKERS" sign.

Illinois Department of Transportation

ISSUED 3-1-97

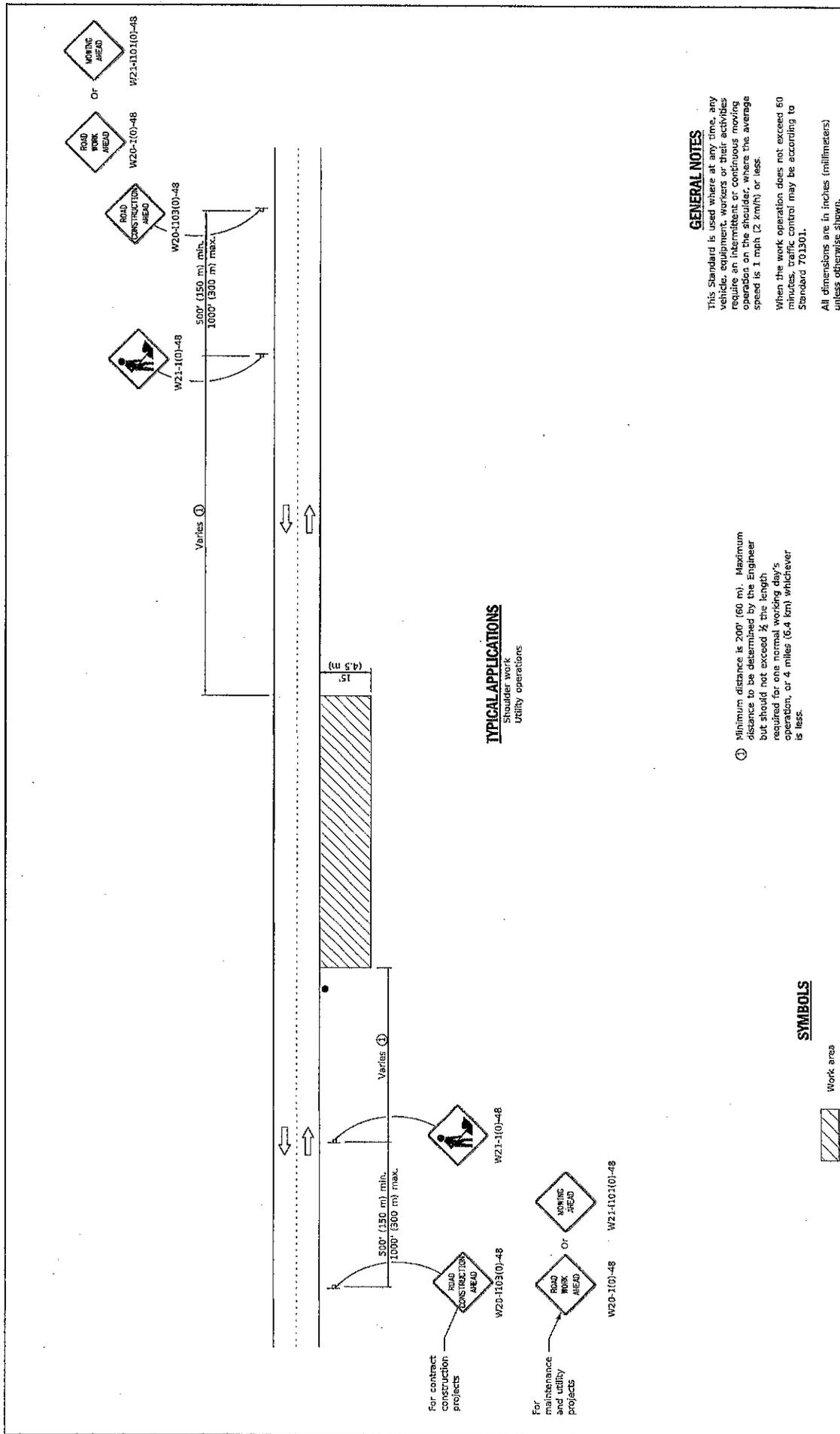
2014

APPROVED: [Signature] January 3, 2014

ENGINEER OF SAFETY ENGINEERING

APPROVED: [Signature] January 3, 2014

ENGINEER OF DESIGN AND ENVIRONMENT



TYPICAL APPLICATIONS
Shoulder work
utility operations

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operator 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 7013101.

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.

SYMBOLS

Work area

Sign

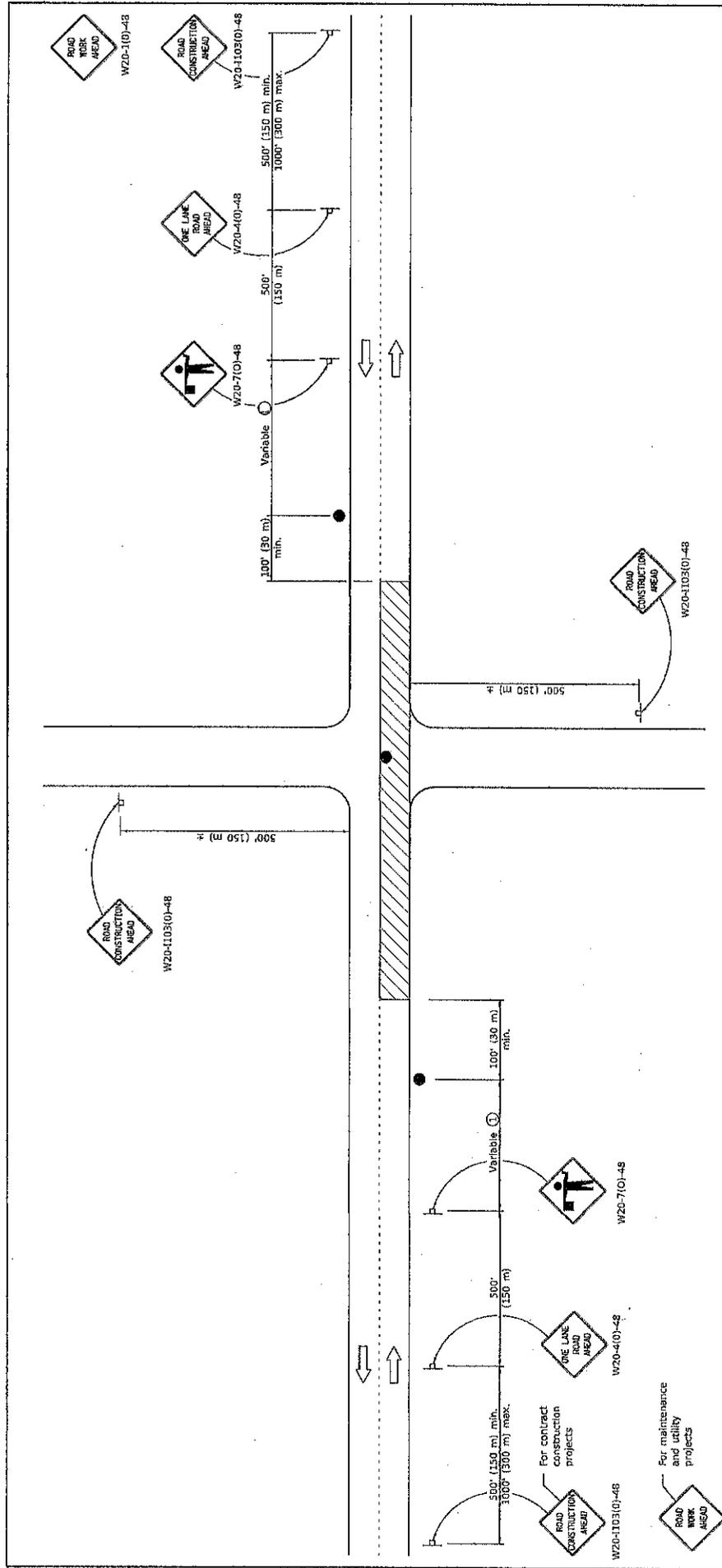
● Flagger with traffic control sign when required

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

**OFF-RD MOVING OPERATIONS,
2L, 2W, DAY ONLY**

STANDARD 701011-04

Illinois Department of Transportation
 PASSED: [Signature] January 1, 2014
 ENGINEER OF SAFETY ENGINEERING
 APPROVED: [Signature] January 1, 2014
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED: 1-1-07



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 pavement where the average speed of movement is greater than 1/2 mph (1 km/h) and less than 4 mph (6 km/h).

When the operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

All dimensions are in inches (millimeters) unless otherwise shown.

TYPICAL APPLICATIONS

Bituminous resurfacing
Milling operations
Utility operations
Shoulder operations

For contract construction projects

For maintenance and utility projects

SYMBOLS

Work area

Sign on portable or permanent support

Flagger with traffic control sign

DATE	REVISIONS
1-1-18	Revised lower speed limit for operation to 1/2 mph.
1-1-11	Revised flagger sign.

LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH

STANDARD 701306-04

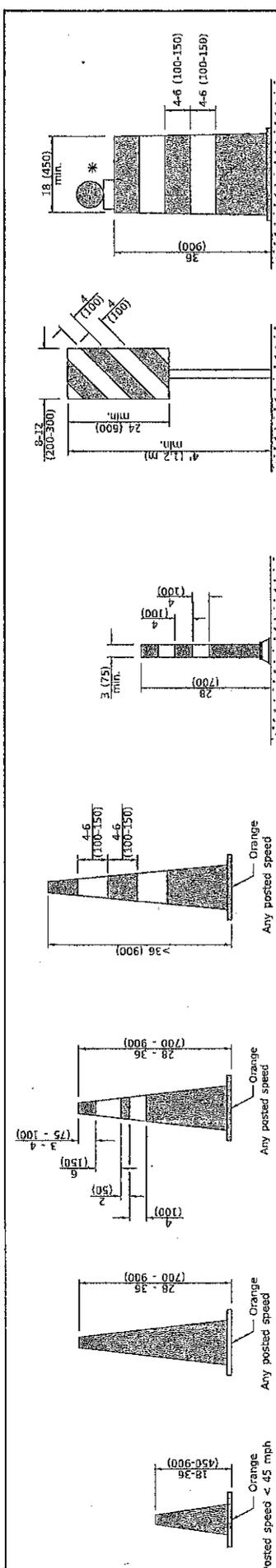
Illinois Department of Transportation

PASSED: _____ 2018

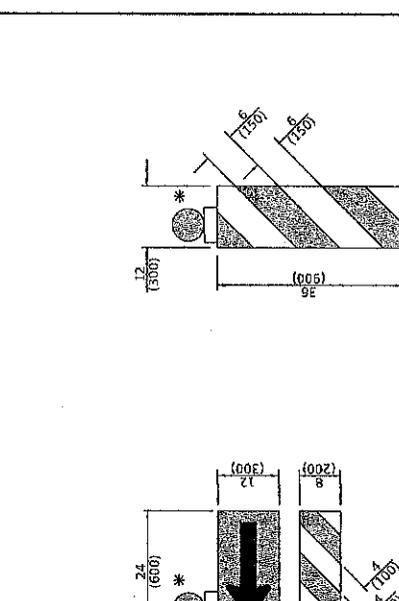
APPROVED: _____ 2018

ENGINEER OF DESIGN AND ENVIRONMENT

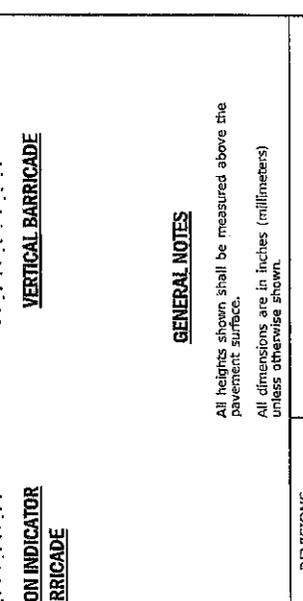
ISSUED: 1-1-97



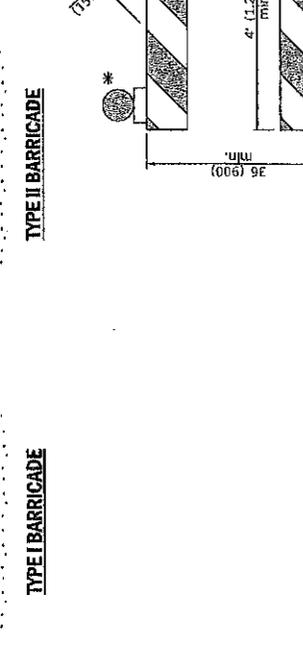
CONES
DAYTIME USE
 Orange
 Posted speed < 45 mph
 18-36 (456-900)
 4-6 (100-150)
DAY OR NIGHTTIME USE
 Orange
 Any posted speed
 28-36 (700-900)
 4-6 (100-150)



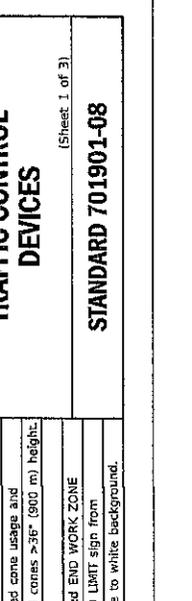
TUBULAR MARKER
 3 (75) min.
 2.8 (700)
VERTICAL PANEL POST MOUNTED
 8-17 (200-300)
 24 min. (600)
 4 (100)
 4 (100)



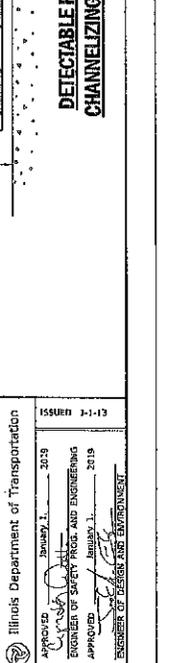
TYPE I BARRICADE
 36 (900) min.
 24 (600) min.
TYPE II BARRICADE
 36 (900) min.
 24 (600) min.
TYPE III BARRICADE
 5' 1.5 m min.
 4' 1.2 m min.



DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE
 36 (900) min.
 4' 1.2 m min.



DRUM
 18 (450) min.
 36 (900)
VERTICAL BARRICADE
 12 (300)
 36 (900)



DIRECTION INDICATOR BARRICADE
 24 (600)
 36 (900)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.
 All dimensions are in inches (millimeters) unless otherwise shown.

* Warning lights (if required)

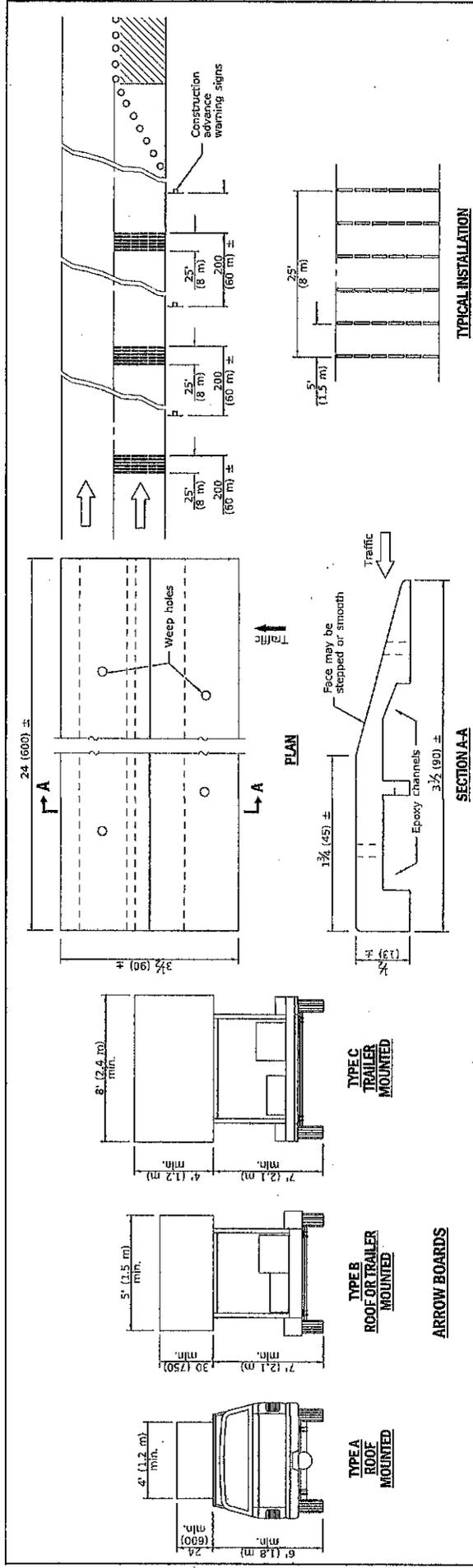
DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 m) heights
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

STANDARD 701901-08

Illinois Department of Transportation
 Approved: [Signature] 2019
 ENGINEER OF SAFETY PROGRAM AND ENGINEERING
 APPROVED: [Signature] 2019
 REGISTERED DESIGN AND ENVIRONMENT



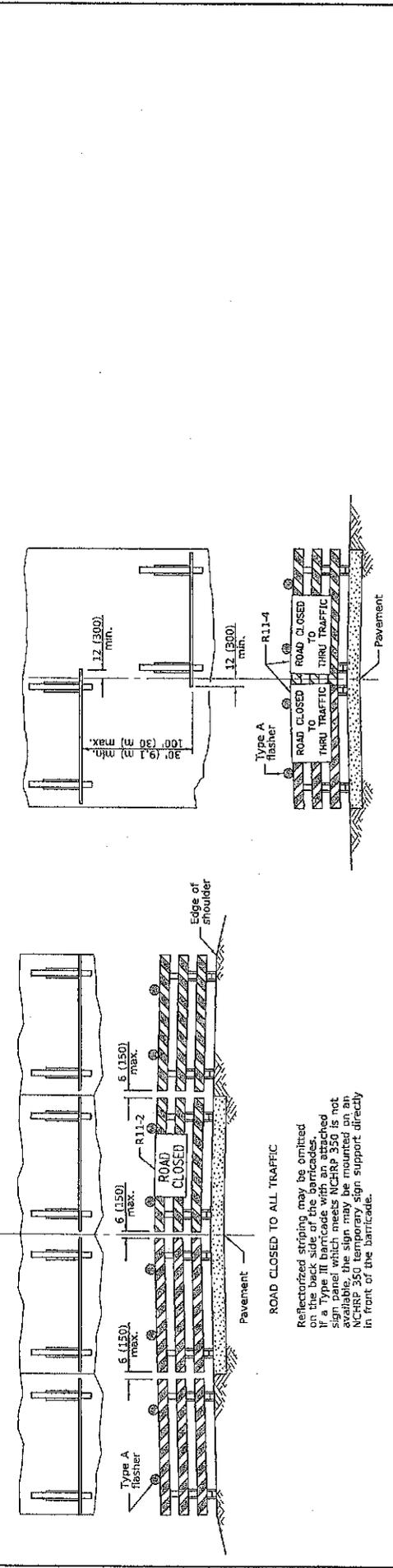
ARROW BOARDS

**TYPE A
ROOF MOUNTED**

**TYPE B
ROOF OR TRAILER MOUNTED**

**TYPE C
TRAILER MOUNTED**

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

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.

ROAD CLOSED TO THRU TRAFFIC

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.

**TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD**

Illinois Department of Transportation	ISSUED	1-1-19
Approved: <i>[Signature]</i>	January 1, 2019	
ENGINEER OF SAFETY PROGRAMS AND OVERSIGHT		
APPROVED: <i>[Signature]</i>	January 1, 2019	
ENGINEER OF DESIGN AND ENVIRONMENT		