



McHenry County

Division of Transportation

16111 Nelson Road
Woodstock, IL 60098

Request for Authorization to Bid

IDOT Contractor Number: _____
Letting Date: _____

TYPE OR USE BLACK INK

SPECIAL NOTICE

Companies wishing to bid **MUST** request Authorization to Bid.

TO EXPEDITE THIS REQUEST, PLEASE PRINT LEGIBLY AND FOLLOW THE INSTRUCTIONS ON PAGE TWO.

Part A:

Companies that wish to bid on McHenry County Division of Transportation (MCDOT) projects, as the prime contractor, **must** submit a **Request for Authorization to Bid** form to MCDOT, filling in Part A. MCDOT will email an **Authorization to Bid** letter to the company within three (3) working days.

We request **Authorization to Bid** on the following projects.

Please list our Company on the **For Bid List** for the following projects (check all that apply):

<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____

MCDOT will review the request and issue an **Authorization to Bid** only on the projects checked and listed in Part A.

Part B:

Companies downloading plans and/or specifications that wish to be placed on the **Not for Bid List**, **must** submit a **Request for Authorization to Bid** form to MCDOT, filling in Part B.

Please list our Company on the **Not For Bid List** for the following items (check all that apply):

<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____

Part C:

Company Name: _____

Contact Person: _____

Company Address (*): _____

For United Parcel Delivery

City _____ State _____ Zip Code _____

Post Office Box No. (*): _____

Box No. _____ For First Class Delivery

City _____ State _____ Zip Code _____

E-Mail: _____

Phone No.: _____ Fax No.: _____

(*) Complete street address and post office box information are required.

E-mail to: MCDOTBidDocs@co.mchenry.il.us or Fax to: MCDOT at (815) 334-4989, Attn: MCDOT Bid Docs

Instructions

1. Using a computer or **Black Ink (PLEASE PRINT)** complete the MCDOT Request for Authorization to Bid form (Page 1).
2. To be placed on the **For Bid List** and request **Authorization to Bid** on specific MCDOT projects, check and include the section number(s) (XX-XXXX-XX-XX) in Part A, that apply.
3. To be placed on the **Not For Bid List**, check and include the section number(s) (XX-XXXX-XX-XX) in Part B, that apply.
4. Fill in all information in Part C.
5. **E-mail** the completed Request for Authorization to Bid form (Page 1) along with a copy of your current IDOT prequalification **Certificate of Eligibility** and **Affidavit of Availability** to MCDOTBidDocs@co.mchenry.il.us or Fax the completed Request for Authorization to Bid form (Page 1) along with a copy of your current IDOT prequalification **Certificate of Eligibility** and **Affidavit of Availability** to MCDOT at (815) 334-4989, attention MCDOT Bid Docs. Certificate not required for materials letting.
6. Requests for **Authorization to Bid** will not be processed after 4:00 p.m., three (3) calendar days preceding the published letting date as specified on form BLR 12200, Notice to Bidders, in the various project specifications.

Companies that have not received an Authorization to Bid letter within three (3) working days of submitting their request should contact MCDOT at (815) 334-4960 to check on their status.

ELECTRONIC PLANS & SPECIFICATIONS

HOW TO OBTAIN ELECTRONIC PLANS & SPECIFICATIONS?: Project plans and/or specifications may be downloaded from MCDOT's website at <http://www.co.mchenry.il.us/county-government/departments-j-z/transportation/doing-business/bid-documents>. A CD containing the plans and specifications for the project(s) may be purchased from MCDOT at a cost of \$20. Contact MCDOT at (815) 334-4960 to request a CD. Hard copies of the plans and/or specifications will be available by request for a fee. **Three (3) days advance notice is required for both requests.**

ADDENDA: Companies downloading plans and/or specifications from the internet are responsible for checking the McHenry County Division of Transportation web site (<http://www.co.mchenry.il.us/county-government/departments-j-z/transportation/doing-business/bid-documents>) for any project ADDENDA. Companies that sign up for the electronic notification will be alerted to addenda when they are published. **It is each Company's responsibility to download any addenda and include them with their proposal(s).**

WHO CAN BID?: Bids will be accepted from only those companies that request and receive written **Authorization to Bid** letter from MCDOT.

WHAT IS AUTHORIZATION TO BID?: A Company that wishes to bid on a MCDOT project, as the prime contractor, **must** submit a **Request for Authorization to Bid** form, filling in Part A and select which project(s) they wish to bid on, to MCDOT along with a copy of their IDOT prequalification **Certificate of Eligibility** and **Affidavit of Availability**. Certificate not required for Materials Lettings. MCDOT will review the request and issue an **Authorization to Bid** letter indicating which projects the Company is authorized to bid on. If a Company is not authorized to bid on a project, the **Authorization to Bid** letter will indicate the reason for denial.

WHAT MUST BE INCLUDED IN THE BID PROPOSAL: Companies do not need to return the entire bid package when submitting a bid proposal. The following documents must be included in the bid proposal:

FOR CONTRACT PROPOSAL:

- Local Public Agency Formal Contract Proposal (BLR 12200)
- Schedule of Prices (BLR 12200a) (**Note: Written bid will not be accepted and will be subject to rejection of bid.**)
- Local Agency Proposal Bid Bond (BLR 12230)
- Apprenticeship or Training Program Certification (BLR 12325) [If included in the bid package]
- Affidavit of Illinois Business Office (BLR 12326)
- Affidavit of Availability (BC 57)

FOR MATERIAL PROPOSAL:

- Local Public Agency Material Proposal or Deliver & Install Proposal (BLR 12240)
- Material Proposal Schedule of Prices (BLR 12241)

All proposal documents, including the Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss.

MCDOT does not accept electronic bids. Signed and sealed paper copy proposals **must** be submitted.

MCDOT recommends that Companies deliver their proposals in person to insure they arrive at 16111 Nelson Road, Woodstock, Illinois 60098, prior to the time specified on form BLR 12200, under Notice to Bidders. **Any bid(s) received after the time specified on form BLR 12200 will not be accepted.**

For Assistance Contact MCDOT at 815-334-4960



Local Public Agency
Material Proposal or
Deliver & Install
Proposal

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

STATE OF ILLINOIS

COUNTY OF McHenry

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

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. Various

SECTION NO. 19-00000-05-GM

TYPES OF FUNDS MFT

- MATERIAL PROPOSAL
- DELIVER & INSTALL PROPOSAL
- SPECIFICATIONS (required)
- PLANS (if applicable)

For Municipal Projects
Submitted/Approved/Passed

Mayor President of Board of Trustees Municipal Official

Date

Department of Transportation

Released for bid based on limited review

Joseph R. Karpelinski Jr.
Regional Engineer

March 19, 2019
Date

For County and Road District Projects
Submitted/Approved

Highway Commissioner

Date

Submitted/Approved
Joseph R. Karpelinski Jr.
County Engineer/Superintendent of Highways

March 19, 2019
Date

County Engineer
On behalf of IDOT pursuant to Agreement
of Understanding dated March 4, 2005

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

RETURN WITH BID

NOTICE TO BIDDERS

County McHenry
Local Public Agency McHenry County
Section Number 19-00000-05-GM
Route Various

Sealed proposals for the furnishing or delivering & installing materials required in the construction/maintenance of the above Section will be received and at that time publicly opened and read at the office of Division of Transportation,

16111 Nelson Road Woodstock, IL 60098

until 10:00 AM

on April 11, 2019

Address

Time

Date

- 1. Plans and proposal forms will be available in the office of McHenry County Division of Transportation
https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/doing-business/bid-documents
2. [X] 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.
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 Material Proposals.
4. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Material Proposals, will be required. Bid Bonds will be allowed as a proposal guaranty.
5. The successful bidder at the time of execution of the contract will not 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. Failure on the part of the contractor to deliver the material within the time specified or to do the work specified herein will be considered just cause to forfeit his surety as provided in Article 108.10 of the Standard Specifications.
6. Proposals shall be submitted on forms furnished by the Awarding Authority and shall be enclosed in an envelope endorsed "Material Proposal, Section 19-00000-05-GM".

By Order of McHenry County Board (Awarding Authority)

03/19/2019 Date

Joseph R. Korpalski, Jr, P.E. (County Engineer/Superintendent of Highways/Municipal Clerk)

Material Proposal or Deliver & Install Proposal

To McHenry County Board (Awarding Authority)

If this bid is accepted within 45 days from date of opening, the undersigned agrees to furnish or to deliver & install any or all of the materials, at the quoted unit prices, subject to the following:

- 1. It is understood and agreed that the "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016, and the "Supplemental Specifications and Recurring Special Provisions", adopted January 1, 2019, prepared by the Department of Transportation, shall govern insofar as they may be applied and insofar as they do not conflict with the special provisions and supplemental specifications attached hereto.
2. It is understood that quantities listed are approximate only and that they may be increased or decreased as may be needed to properly complete the improvement within its present limits or extensions thereto, at the unit price stated and that bids will be compared on the basis of the total price bid for each group.
3. Delivery in total or partial shipments as ordered shall be made within the time specified in the special provisions or by the acceptance at the point and in the manner specified in the "Schedule of Prices". If delivery on the job site is specified, it shall mean any place or places on the road designated by the awarding authority or its authorized representative.
4. The contractor and/or local agency performing the actual material placement operations shall be responsible for providing work zone traffic control, unless otherwise specified in this proposal. Such devices shall meet the requirements of and be installed in accordance with applicable provisions of the "Illinois Manual on Uniform Traffic Control Devices" and any referenced Illinois Highway Standards.
5. 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. A bid will be declared unacceptable if neither a unit price nor a total price is shown.

Discounts will be allowed for payment as follows: % calendar days: % calendar days.

Discounts will not be considered in determining the low bidder.

Bidder

By (Signature)

Address

Title



Return with Bid

Route	<u>Various</u>
County	<u>McHenry</u>
Local Agency	<u>McHenry County</u>
Section	<u>19-00000-05-GM</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: _____



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	75
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	78
3	<input type="checkbox"/> EEO	79
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	89
5	<input type="checkbox"/> Required Provisions - State Contracts	94
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	100
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	101
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	102
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	103
10	<input type="checkbox"/> Construction Layout Stakes	106
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	109
12	<input type="checkbox"/> Subsealing of Concrete Pavements	111
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	115
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	117
15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	118
16	<input type="checkbox"/> Polymer Concrete	120
17	<input type="checkbox"/> PVC Pipeliner	122
18	<input type="checkbox"/> Bicycle Racks	123
19	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	125
20	<input type="checkbox"/> Work Zone Public Information Signs	127
21	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	128
22	<input type="checkbox"/> English Substitution of Metric Bolts	129
23	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	130
24	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	131
25	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	139
26	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	155
27	<input type="checkbox"/> Reserved	157
28	<input type="checkbox"/> Preventive Maintenance - Bituminous Surface Treatment	158
29	<input type="checkbox"/> Reserved	164
30	<input type="checkbox"/> Reserved	165
31	<input type="checkbox"/> Reserved	166
32	<input type="checkbox"/> Temporary Raised Pavement Markers	167
33	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	168
34	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	171
35	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	175

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	Reserved	179
LRS 2	<input type="checkbox"/> Furnished Excavation	180
LRS 3	<input type="checkbox"/> Work Zone Traffic Control Surveillance	181
LRS 4	<input type="checkbox"/> Flaggers in Work Zones	182
LRS 5	<input type="checkbox"/> Contract Claims	183
LRS 6	<input type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	184
LRS 7	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	190
LRS 8	Reserved	196
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	197
LRS 10	Reserved	198
LRS 11	<input checked="" type="checkbox"/> Employment Practices	199
LRS 12	<input checked="" type="checkbox"/> Wages of Employees on Public Works	201
LRS 13	<input checked="" type="checkbox"/> Selection of Labor	203
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	204
LRS 15	<input type="checkbox"/> Partial Payments	207
LRS 16	<input type="checkbox"/> Protests on Local Lettings	208
LRS 17	<input type="checkbox"/> Substance Abuse Prevention Program	209
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	210

CHECK SHEET #LRS7

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

SPECIAL PROVISION FOR BIDDING REQUIREMENTS AND CONDITIONS FOR MATERIAL PROPOSALS

Effective: January 1, 2002

Revised: January 1, 2013

Replace Article 102.01 of the Standard Specifications with the following:

Prequalification of Bidders. When prequalification is required and the awarding authority for contract construction work is the County Board of a County, the Council, the City Council, or the President and Board of Trustees of a city, village, or town, each prospective bidder, in evidence of competence, shall furnish the awarding authority as a prerequisite to the release of proposal forms by the awarding authority, a certified or photostatic copy of a "Certificate of Eligibility" issued by the Department of Transportation, in accordance with the Department's "Prequalification Manual".

The two low bidders must file, within 24 hours after the letting, a sworn affidavit in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work, using the blank form made available for this affidavit. One copy shall be filed with the awarding authority and two copies with the District office.

Issuance of Proposal Forms. The Awarding Authority reserves the right to refuse to issue a proposal form for bidding purposes for any of the following reasons:

- (a) Lack of competency and adequate machinery, plant, and other equipment, as revealed by the financial statement and experience questionnaires required in prequalification procedures.
- (b) Uncompleted work which, in the judgment of the Awarding Authority, might hinder or prevent the prompt completion of additional work awarded.
- (c) False information provided on a bidder's "Affidavit of Availability".
- (d) Failure to pay, or satisfactorily settle, all bills due for labor and material on former contracts in force at the time of issuance of proposal forms.
- (e) Failure to comply with any prequalification regulations of the Department.
- (f) Default under previous contracts.
- (g) Unsatisfactory performance record as shown by past work for the Awarding Authority, judged from the standpoint of workmanship and progress.
- (h) When the Contractor is suspended from eligibility to bid at a public letting where the contract is awarded by, or requires approval of, the Department.

- (i) When any agent, servant, or employee of the prospective bidder currently serves as a member, employee, or agent of a governmental body that is financially involved in the proposal work.
- (j) When any agent, servant, or employee of the perspective bidder has participated in the preparation of plans or specifications for the proposed work.

Interpretation of Quantities in the Bid Schedule. 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.

Examination of Material Proposal, Specifications, Special Provisions, and Site of Work. The bidder shall, before submitting a bid, carefully examine the provisions of the proposal. The bidder shall inspect in detail the site of the proposed work, investigate and become familiar with all the local conditions affecting the work and fully acquaint themselves with the detailed requirements of the work. Submission of a bid shall be a conclusive assurance and warranty the bidder has made these examinations and the bidder understands all requirements for the performance of the work. If his/her bid is accepted, the bidder will be responsible for all errors in the proposal resulting from his/her failure or neglect to comply with these instructions. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses, or change in anticipated profits resulting from such failure or neglect of the bidder to make these examinations.

The bidder shall take no advantage of any error or omission in the proposal. Any prospective bidder who desires an explanation or interpretation of the specification, or any of the documents, shall request such in writing from the Awarding Authority, in sufficient time to allow a written reply by the Awarding Authority that can reach all prospective bidders before the submission of their bids. Any reply given a prospective bidder concerning any of the documents and specifications will be furnished to all prospective bidders in the form determined by the Awarding Authority including, but not limited to, an addendum, if the information is deemed by the Awarding Authority to be necessary in submitting bids or if the Awarding Authority concludes the information would aid competition. Oral explanations, interpretations or instructions given before the submission of bids unless at a prebid conference will not be binding on the Awarding Authority.

Preparation of the Proposal. Bidders shall submit their proposals on the form furnished by the Awarding Authority. The proposal shall be executed properly, and bids shall be made for all items indicated in the proposal form, except when alternate bids are asked, a bid on more than one alternate for each item is not required, unless otherwise provided. The bidder shall indicate in figures, a unit price for each of the separate items called for in the proposal form; the bidder shall show the products of the respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the proposal form shall be the summation of said products. All writing shall be with ink or typewriter, except the signature of the bidder which shall be written in ink.

CHECK SHEET #LRS7

When prequalification is required, the proposal form shall be submitted by an authorized bidder in the same name and style as shown on the "Contractor's Statement of Experience and Financial Condition" used for prequalification and shall be submitted in like manner.

Rejection of Proposals. The Awarding Authority reserves the right to reject any proposal for any of the conditions in "Issuance of Proposal Forms" or for any of the following reasons:

- (a) More than one proposal for the same work from an individual, firm, partnership, or corporation under the same name or different names.
- (b) Evidence of collusion among bidders.
- (c) Unbalanced proposals in which the bid prices for some items are, in the judgment of the Awarding Authority, out of proportion to the bid prices for other items.
- (d) If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items or lump sum pay items.
- (e) If the proposal form is other than that furnished by the Awarding Authority; or if the form is altered or any part thereof is detached.
- (f) If there are omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
- (g) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
- (i) If the proposal is not accompanied by the proper proposal guaranty.
- (i) If the proposal is prepared with other than ink or typewriter, or otherwise fails to meet the requirements of the above "Preparation of Proposal" section.

Proposal Guaranty. Each proposal shall be accompanied by a bid bond on the Department form contained in the proposal, executed by a corporate surety company satisfactory to the Awarding Authority, by a bank cashier's check or a properly certified check for not less than five percent of the amount bid, or for the amount specified in the following schedule:

CHECK SHEET #LRS7

Amount Bid	Proposal Guaranty	
Up to	\$5,000	\$150
>\$5,000	\$10,000	\$300
>\$10,000	\$50,000	\$1,000
>\$50,000	\$100,000	\$3,000
>\$100,000	\$150,000	\$5,000
>\$150,000	\$250,000	\$7,500
>\$250,000	\$500,000	\$12,500
>\$500,000	\$1,000,000	\$25,000
>\$1,000,000	\$1,500,000	\$50,000
>\$1,500,000	\$2,000,000	\$75,000
>\$2,000,000	\$3,000,000	\$100,000
>\$3,000,000	\$5,000,000	\$150,000
>\$5,000,000	\$7,500,000	\$250,000
>\$7,500,000	\$10,000,000	\$400,000
>\$10,000,000	\$15,000,000	\$500,000
>\$15,000,000	\$20,000,000	\$600,000
>\$20,000,000	\$25,000,000	\$700,000
>\$25,000,000	\$30,000,000	\$800,000
>\$30,000,000	\$35,000,000	\$900,000
Over	\$35,000,000	\$1,000,000

In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must equal to the sum of the proposal guaranties which would be required for each individual proposal.

Bank cashier's checks or properly certified checks accompanying proposals shall be made payable to the County Treasurer, when a County is the awarding authority; or the City, Village, or Town Treasurer, when a city, village, or town is the awarding authority.

If this proposal contains various groups and the bidder has the option of bidding on one or several groups, the bidder may provide a separate proposal guaranty for each group or combination of groups in lieu of a single proposal guaranty to cover the amount bid for the entire proposal. Each proposal guaranty shall identify the groups covered by the individual proposal guaranty. In the event that one proposal guaranty check is intended to cover two or more groups, the amount must be equal to the sum of the proposal guaranties which would be required for each individual group.

The proposal guaranty checks of all, except the two lowest responsible, will be returned promptly after the proposals have been checked, tabulated, and the relation of the proposals established. Proposal guaranty checks of the two lowest bidders will be returned as soon as the contract and contract bond of the successful bidder have been properly executed and approved. If a contract bond is not required, the proposal guaranty check will be held in lieu thereof. Bid bonds will not be returned.

The awarding authority may deny the use of a bid bond as a proposal guaranty but may not further restrict the proposal guaranty. The Notice of Material Letting will state whether a bid bond is allowed.

CHECK SHEET #LRS7

Delivery of Proposals. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Authority 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.

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

Public Opening of Proposals. Proposals will be opened and read publicly at the time and place specified in the Notice to Bidders. Bidders, their authorized agents and other interested parties are invited to be present.

Consideration of Proposals. After the proposals are opened and read, they will be compared on the basis of the summation of the products of the quantities shown in the bid schedule by the unit bid prices. In the event of a discrepancy between unit bid prices and extensions, the unit bid price shall govern. In awarding the supply of materials, the Awarding Authority will, in addition to considering the amounts stated in the proposals, take into consideration the responsibility of the various bidders as determined from a study of the data required under "Prequalification of Bidders", and from other investigations which it may elect to make.

The right is reserved to reject any or all proposals, to waive technicalities or to advertise for new proposals, if in the judgment of the Awarding Authority, the best interests of the Awarding Authority will be promoted thereby.

Acceptance of Proposal to Furnish Material. The award will be made within 45 calendar days after the opening of proposals to the lowest responsible and qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified by letter of intent that his/her bid has been accepted, and subject to the following conditions, the bidder will be the Contractor or Supplier.

An acceptance of proposal to furnish materials executed by the Awarding Authority is required before the Awarding Authority is bound. An award may be cancelled any time by the Awarding Authority prior to execution in order to protect the public interest and integrity of the bidding process or for any other reason if, in the judgment of the Awarding Authority, the best interests of the Awarding Authority will be promoted thereby.

If a material proposal is not awarded within 45 days after the opening of proposals, bidders may file a written request with the Awarding Authority for the withdrawal of their bid, and the Awarding Authority will permit such withdrawal.

Requirement of Contract Bond. If the Awarding Authority requires a Contract Bond, the Contractor or Supplier shall furnish the Awarding Authority a performance and payment bond with good and sufficient sureties in the full amount of the award as

CHECK SHEET #LRS7

the penal sum. The surety shall be acceptable to the Awarding Authority, shall waive notice of any changes and extensions of time, and shall submit its bond on the form furnished by the Awarding Authority.

The contract bond shall be returned within 15 days after the notice of award. Failure of the successful bidder to execute and file acceptable bonds within 15 days after the notice of award has been mailed to the bidder shall be just cause for the cancellation of the award and the forfeiture of the proposal guaranty which shall become the property of the Awarding Authority, not as penalty, but in liquidation of damages sustained. Award may then be made to the next lowest responsible bidder, or the work may be readvertised, or otherwise, as the Awarding Authority may decide.

If the bidder to whom the award is made is a corporation organized under the laws of a State other than Illinois, the bidder shall furnish the Awarding Authority a copy of the corporation's Certificate of Authority to do business in the State of Illinois with the return of the contract bond. Failure to furnish such evidence of a Certificate of Authority within the time required will be considered as just cause for the annulment of the award and the forfeiture of the proposal guaranty to the Awarding Authority, not as a penalty, but in payment of liquidated damages sustained as a result of such failure.

Failure to Execute the Acceptance of Proposal to Furnish Material. If the acceptance of proposal to furnish material is not executed by the Awarding Authority within 15 days following receipt from the bidder of the properly executed bonds, the bidder shall have the right to withdraw his/her bid without penalty.”

**Prevailing Wage rates for
McHenry County
effective Sept. 1, 2017**

Trade Title	Region	Type	Class	Base Wage	Fore-man Wage	M-F OT	OSA	OSH	H/W	Pension	Vacation	Training
ASBESTOS ABT-GEN	ALL	ALL		41.20	42.20	1.5	1.5	2	13.77	13.20	0.00	0.50
ASBESTOS ABT-MEC	ALL	BLD		37.88	40.38	1.5	1.5	2	12.12	11.70	0.00	0.72
BOILERMAKER	ALL	BLD		48.49	52.86	2	2	2	6.97	19.61	0.00	0.90
BRICK MASON	ALL	BLD		45.38	49.92	1.5	1.5	2	10.45	16.68	0.00	0.90
CARPENTER	ALL	ALL		46.35	48.35	1.5	1.5	2	11.79	18.88	0.00	0.63
CEMENT MASON	ALL	ALL		44.84	46.84	2	1.5	2	10.00	21.01	0.00	0.50
CERAMIC TILE FNISHER	ALL	BLD		38.56	38.56	1.5	1.5	2	10.65	11.18	0.00	0.68
COMMUNICATION TECH	ALL	BLD		38.15	40.55	1.5	1.5	2	12.18	12.77	0.00	0.67
ELECTRIC PWR EQMT OP	ALL	ALL		37.89	51.48	1.5	1.5	2	5.00	11.75	0.00	0.38
ELECTRIC PWR EQMT OP	ALL	HWY		41.45	56.38	1.5	1.5	2	5.50	12.87	0.00	0.73
ELECTRIC PWR GRNDMAN	ALL	ALL		29.30	51.48	1.5	1.5	2	5.00	9.09	0.00	0.29
ELECTRIC PWR GRNDMAN	ALL	HWY		32.00	56.38	1.5	1.5	2	5.50	9.92	0.00	0.66
ELECTRIC PWR LINEMAN	ALL	ALL		45.36	51.48	1.5	1.5	2	5.00	14.06	0.00	0.45
ELECTRIC PWR LINEMAN	ALL	HWY		49.67	56.38	1.5	1.5	2	5.50	15.40	0.00	0.88
ELECTRIC PWR TRK DRV	ALL	ALL		30.34	51.48	1.5	1.5	2	5.00	9.40	0.00	0.30
ELECTRIC PWR TRK DRV	ALL	HWY		33.14	56.38	1.5	1.5	2	5.50	10.29	0.00	0.59
ELECTRICIAN	ALL	ALL		47.29	51.69	1.5	1.5	2	14.58	15.87	0.00	0.95
ELEVATOR CONSTRUCTOR	ALL	BLD		51.94	58.43	2	2	2	14.43	14.96	4.16	0.90
FENCE ERECTOR	E	ALL		39.58	41.58	1.5	1.5	2	13.40	13.90	0.00	0.40
FENCE ERECTOR	S	ALL		45.56	49.20	2	2	2	11.02	21.51	0.00	0.70
GLAZIER	ALL	BLD		42.45	43.95	1.5	1.5	2	14.04	20.14	0.00	0.94
HT/FROST INSULATOR	ALL	BLD		50.50	53.00	1.5	1.5	2	12.12	12.96	0.00	0.72
IRON WORKER	E	ALL		47.33	49.33	2	2	2	14.15	22.39	0.00	0.35
IRON WORKER	S	ALL		45.61	49.25	2	2	2	11.52	22.65	0.00	0.81
IRON WORKER	W	ALL		38.33	44.08	2	2	2	12.27	24.57	0.00	0.60

LABORER	ALL	ALL	41.20	41.95	1.5	1.5	2	13.77	13.20	0.00	0.50
LATHER	ALL	ALL	46.35	48.35	1.5	1.5	2	11.79	18.88	0.00	0.63
MACHINIST	ALL	BLD	47.56	50.06	1.5	1.5	2	7.05	8.95	1.85	1.47
MARBLE FINISHERS	ALL	ALL	33.95	33.95	1.5	1.5	2	10.45	15.52	0.00	0.47
MARBLE MASON	ALL	BLD	44.63	49.09	1.5	1.5	2	10.45	16.28	0.00	0.59
MATERIAL TESTER I	ALL	ALL	31.20	31.20	1.5	1.5	2	13.77	13.20	0.00	0.50
MATERIALS TESTER II	ALL	ALL	36.20	36.20	1.5	1.5	2	13.77	13.20	0.00	0.50
MILLWRIGHT	ALL	ALL	46.35	48.35	1.5	1.5	2	11.79	18.88	0.00	0.63
OPERATING ENGINEER	ALL	BLD 1	50.10	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD 2	48.80	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD 3	46.25	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD 4	44.50	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD 5	53.85	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD 6	51.10	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	BLD 7	53.10	54.10	2	2	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	FLT	38.00	38.00	1.5	1.5	2	18.05	13.60	1.90	1.30
OPERATING ENGINEER	ALL	HWY 1	48.30	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY 2	47.75	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY 3	45.70	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY 4	44.30	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY 5	43.10	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY 6	51.30	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
OPERATING ENGINEER	ALL	HWY 7	49.30	52.30	1.5	1.5	2	18.80	14.35	2.00	1.30
ORNAMNTL IRON WORKER	E	ALL	46.75	49.25	2	2	2	13.90	19.79	0.00	0.75
ORNAMNTL IRON WORKER	S	ALL	45.06	48.66	2	2	2	10.52	20.76	0.00	0.40
PAINTER	ALL	ALL	44.18	46.18	1.5	1.5	1.5	10.30	8.20	0.00	1.35
PAINTER SIGNS	ALL	BLD	37.45	42.05	1.5	1.5	2	2.60	3.18	0.00	0.00
PILEDRIWER	ALL	ALL	46.35	48.35	1.5	1.5	2	11.79	18.88	0.00	0.63
PIPEFITTER	ALL	BLD	47.50	50.50	1.5	1.5	2	10.05	17.85	0.00	2.12
PLASTERER	ALL	BLD	42.75	45.31	1.5	1.5	2	14.00	15.71	0.00	0.89

PLUMBER	ALL	BLD		49.25	52.20	1.5	1.5	2	14.34	13.35	0.00	1.28
ROOFER	ALL	BLD		42.30	45.30	1.5	1.5	2	9.08	12.14	0.00	0.58
SHEETMETAL WORKER	ALL	BLD		45.77	47.77	1.5	1.5	2	10.65	14.10	0.00	0.82
SIGN HANGER	ALL	BLD		26.07	27.57	1.5	1.5	2	3.80	3.55	0.00	0.00
SPRINKLER FITTER	ALL	BLD		47.20	49.20	1.5	1.5	2	12.25	11.55	0.00	0.55
STEEL ERECTOR	E	ALL		46.20	48.20	2	2	2	13.65	21.52	0.00	0.35
STEEL ERECTOR	S	ALL		45.56	49.20	2	2	2	11.02	21.51	0.00	0.70
STONE MASON	ALL	BLD		45.38	49.92	1.5	1.5	2	10.45	16.68	0.00	0.90
TERRAZZO FINISHER	ALL	BLD		40.54	40.54	1.5	1.5	2	10.65	12.76	0.00	0.73
TERRAZZO MASON	ALL	BLD		44.38	47.88	1.5	1.5	2	10.65	14.15	0.00	0.82
TILE MASON	ALL	BLD		45.49	49.49	1.5	1.5	2	10.65	13.88	0.00	0.86
TRAFFIC SAFETY WRKR	ALL	HWY		32.75	34.35	1.5	1.5	2	8.45	6.05	0.00	0.50
TRUCK DRIVER	ALL	ALL	1	37.05	37.60	1.5	1.5	2	9.00	7.50	0.00	0.15
TRUCK DRIVER	ALL	ALL	2	37.20	37.60	1.5	1.5	2	9.50	7.50	0.00	0.15
TRUCK DRIVER	ALL	ALL	3	37.40	37.60	1.5	1.5	2	9.50	7.50	0.00	0.15
TRUCK DRIVER	ALL	ALL	4	37.60	37.60	1.5	1.5	2	9.50	7.50	0.00	0.15
TUCKPOINTER	ALL	BLD		45.42	46.42	1.5	1.5	2	8.32	15.42	0.00	0.80

Legend

M-F OT 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.

OSA Overtime pay required for every hour worked on Saturdays

OSH Overtime pay required for every hour worked on Sundays and Holidays
H/W Health/Welfare benefit

Explanations MCHENRY COUNTY

FENCE ERECTOR (EAST) - That part of the county East and Northeast of a line following Route 31 North to Route 14, northwest to Route 47 north to the Wisconsin State Line.

IRONWORKERS (EAST) - That part of the county East of Rts. 47 and 14.

IRONWORKERS (SOUTH) - That part of the county South of Route 14 and East of Route 47.

IRONWORKERS (WEST) - That part of the county West of Route 47.

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.

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

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment

used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS TECHNICIAN

Construction, installation, maintenance and removal of telecommunication facilities (voice, sound, data and video), telephone, security systems, fire alarm systems that are a component of a multiplex system and share a common cable, and data inside wire, interconnect, terminal equipment, central offices, PABX and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area network), LAN (local area networks), and ISDN (integrated system digital network), pulling of wire in raceways, but not the installation of raceways.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1: Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve;

Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft.; Concrete Paver 27E cu. ft. and Under; Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Sced; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Ballast Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all

types: Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Scream; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes; Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEERS - FLOATING

Diver. Diver Tender, Diver Tender, ROV Pilot, ROV Tender

TRAFFIC SAFETY - Effective November 30, 2018, the description of the traffic safety worker trade in this County is as follows: Work associated with barricades, hoses and drums used to reduce lane usage on highway work, the installation and removal of temporary, non-temporary or permanent lane, pavement or roadway markings, and the installation and removal of temporary road signs.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

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.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

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.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".



Local Public Agency	County	Section Number
McHenry County Division of Transportation	McHenry	19-00000-05-GM

The following Special Provision 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 Specification and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of the above named section, and in case of conflict with any parts, or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

SPECIAL PROVISIONS PAVEMENT MARKINGS

McHenry County Division of Transportation

DESCRIPTION OF IMPROVEMENT

This work shall consist of the repair and replacement thermoplastic pavement markings, urethane pavement markings, and spray thermoplastic pavement markings on various County, Township, City, and Village roads at locations where existing pavement markings exist and the implementation of various required traffic control plans.

PROPOSAL GUARANTEE

Each proposal shall be accompanied by a bid bond for not less than 5% of the amount bid, or as provided in *the Supplemental Specifications and Recurring Special Provisions*, Check Sheet LRS7.

CONTRACT BOND

A contract bond shall not be required for this project by Local Agency.

UNIT PRICES

All contract unit prices shall remain in effect until November 30, 2019.

PRICES FOR LOCAL AGENCIES

The Contractor shall honor all contract unit prices as awarded for all work performed by request, for any/all local McHenry County Local Agencies, which may include Townships, Cities, and Villages.

Award of contracts shall be made by Agency based upon contract unit prices for Group 2.

SPECIFICATIONS AND STANDARDS

- The Illinois Department of Transportation's (hereinafter "IDOT") Standard Specifications for Road and Bridge Construction, adopted April 1, 2016 (hereinafter "Standard Specifications").
- Illinois Department of Transportation's Supplement Specifications and Recurring Special Provisions, adopted April 1, 2018

- Illinois Manual on Traffic Control Devices for Streets and Highways in effect as of the date of this invitation for bids, (hereinafter the "MUTCD")
- IDOT's Highway Standards (hereinafter "Highway Standards")

LOCATION OF IMPROVEMENT

Various routes within McHenry County with quantities shown in schedule of quantities, and as directed by the Engineer.

Various Local Agencies (including Cities and Villages) routes with quantities shown in schedule of quantities, and as directed by the Engineer.

Location lists and/or maps for these County/Local Agency routes shall be provided to the Contractor before the start of the project. The County/Local Agency may add or subtract from the location list as directed by the Engineer during the life of this contract.

PREQUALIFICATION OF BIDDERS

PREQUALIFICATION OF BIDDERS in accordance with Section 102.01 of the Standard Specifications shall be required of all bidders on this proposal. The primary Contractor will be required to meet all of the following prequalification code(s) for the discipline of work to be completed:

027 – Pavement Markings (Thermoplastic, Modified Urethane)

The Subcontractor will be required to meet the prequalification code for the discipline of work they will be responsible for completing.

MEASUREMENT OF DAILY QUANTITIES

The Contractor shall provide measured daily quantities to the Engineer and/or his authorized representative for each contract line item (for each location as shown in the contract schedule).

CONTRACTOR'S DAILY NOTIFICATION

The Contractor shall notify the Engineer and/or their representative prior to the beginning of each day's work as to the location and type of work that is scheduled to be performed. The Contractor's notification shall be at least 24 hours prior to the day of actual work.

COMPLETION DATE PLUS GUARANTEED WORKING DAYS

Revise Article 108.05 (c) of the Standard Specifications as follows:

"When a completion date plus guaranteed working days is specified, the Contractor shall complete all contract items and safely open all roadways (including shoulders) to traffic by 11:59 PM on October 4th, 2019.

The Contractor will be allowed to complete all clean-up work, punch list items, and landscaping within 10 guaranteed working days after the completion date for opening the roadway to traffic. Under extenuating circumstances the Engineer may direct that certain items of work, not affecting the safe opening of the roadway to traffic, may be completed within the guaranteed working days allowed for cleanup work and punch list items."

Article 108.09 of the Recurring Specifications or the Special Provision for Failure to Complete the Work on Time shall apply to the completion date and the number of working days.

SPECIAL PROVISIONS FOR INSURANCE (COUNTY/LOCAL AGENCY)

The Contractor shall obtain and keep in full force the following insurance coverages:

POLICY:

Contractor's Commercial General Liability

ADDITIONAL NAMED INSURED:

The County of McHenry, its officers, employees, consultants and agents.

Local Agency, its officers, employees, consultants and agents.

All provisions of Article 107.27 of the Standard Specifications shall apply.

ADDITION, DELETION, AND REDUCTION OF PLAN QUANTITIES

Plan quantities are estimates and actual final measured quantities may differ from them.

The County and/or all Local Agencies reserves the right to add or delete and/or reduce the awarded (plan) quantity of any item in its entirety or partially without claim by the Contractor for loss of profit or overhead. Additional routes may be added in addition to those listed in the schedule of quantities.

The schedule of prices are listed by group. Group #1: Thermoplastic, McHenry County contain the total quantities for the McHenry County Division of Transportation. Group #2: Thermoplastic, Local Agency contain the total quantities for the following Local Agencies: Algonquin Township, Village of Algonquin, Village of Cary, City of Crystal Lake, Village of Huntley, and the City of McHenry. Group #3: Urethane, McHenry County contain the total quantities for MCDOT. Group #4: Hot Spray Thermoplastic, McHenry County contain the total quantities for MCDOT. A detailed schedule of quantities per Agency can be found in this proposal. The Local Agencies (Villages and

accomplished by a subcontractor, consent shall be requested of the Engineer at the time of the preconstruction meeting in accordance with Article 108.01 of the Standard Specifications. This shall not relieve the Contractor of the requirement to have a responsible individual in his direct employ supervise this work. The County or the appropriate Local Agency will provide the Contractor the name of its representative who will be responsible for the administration of the Traffic Control Plan.

The Contractor shall contact the County/Local Agency at least **72 hours** before beginning work.

HIGHWAY STANDARDS

Any reference to Highway Standards shall be assumed to mean the most recent revision.

SPECIAL PROVISIONS - THERMOPLASTIC PAVEMENT MARKINGS

The following special provisions supplement the *Standard Specifications for Road and Bridge Construction*, adopted April 1, 2016, the latest edition of the *Illinois Manual on Uniform Traffic Control Devices* in effect on the date of invitation for bids and the *Supplemental Specifications and Recurring Special Provisions* indicated on the Check Sheet included herein, which apply to and govern the above mentioned improvement. In case of conflict with any part of parts of said specifications, the said Special Provisions shall take precedence and shall govern.

All quantities listed in the Schedule of Prices are estimated quantities. The County reserves the right to add or deduct from the locations and quantities shown on the Schedule of Prices. Final decisions to stripe or not stripe a road shall be made by the Engineer.

CONTOL OF WORK:

Control of work shall be in accordance with Section 105 of the Standard Specifications.

REMOVAL:

This work shall consist of removing existing deteriorated pavement markings (paint, thermoplastic, preformed plastic) by grinding prior to application of new thermoplastic materials. The existing pavement markings shall be removed in accordance with the applicable portions of Section 783 of the Standard Specifications. This work will be measured in square feet of existing pavement marking removed. For payment purposes, all existing lines and letters and symbols shall be converted to square feet regardless of the width actually removed. This work will be paid for at the contract price per square foot for PAVEMENT MARKING REMOVAL measured as specified herein.

INSTALLATION:

This work shall consist of furnishing and applying extruded thermoplastic pavement marking lines, letters, and symbols of the patterns, sizes, and colors as shown in the proposal. Materials shall meet the requirements of Article 780 and Article 1095.01 of the Standard Specifications. Thermoplastic pavement markings shall be installed in accordance with the applicable portions of Section 780 of the Standard Specifications. Equipment used for installing thermoplastic pavement marking materials shall meet the requirements of Article 780.03 Item B and the applicable portions of Section 1105 of the Standard Specifications. Thermoplastic pavement markings shall be installed by Hand-Operated method only and shall not be installed by truck mounted method, no exceptions. Thermoplastic pavement markings will be inspected following installation in accordance with the applicable portions of Section 780 of the Standard Specifications. The lines will be measured for payment in lineal feet of thermoplastic pavement marking lines applied and accepted, measured in place. Double yellow lines will be measured as two separate lines. Words and symbols conforming to the sizes and dimensions specified in Article 780.12 of the Standard Specifications and on Highway Standard 780001-01 will be paid for based on the total areas indicated in Article 780.12 Table 1 or as specified in the proposal.

BASIS OF PAYMENT:

This work will be paid for at the contract unit prices per lineal foot of applied line for THERMOPLASTIC PAVEMENT MARKING – LINE 4, 6, 8, 12, or 24 inches and per square foot for THERMOPLASTIC PAVEMENT MARKING – LETTERS AND SYMBOLS measured as specified herein.

SPECIAL PROVISIONS - URETHANE PAVEMENT MARKINGS

INSTALLATION REQUIREMENTS:

This work shall consist of furnishing and applying a reflectorized modified urethane, plural component, durable liquid pavement marking lines, sizes and colors as shown on the plans.

MATERIALS:

All materials shall meet the following specifications:

- **Modified Urethane Marking:** The modified urethane pavement marking material shall consist of a homogeneous blend of modified urethane resins and pigments designed to provide a simple volumetric mixing ratio of two components (must be two volumes of Part A to one volume of Part B). No volatile solvent or fillers will be allowed.
- **Pigmentation:** The pigment content by weight of Component A shall be determined by low temperature ashing according to ASTM D 3723. The pigment content shall not vary more than + two percent from the pigment content of the original qualified paint. White Pigment shall be Titanium Dioxide meeting ASTM D 476 Type II, Rutile. Yellow Pigment shall be Organic Yellow and contain no heavy metals.
- **Environmental:** Upon heating to application temperature, the material shall not exude fumes, which are toxic or injurious to persons or property when handled according to manufacturer specifications. The modified urethane pavement marking material compositions shall not contain free isocyanate functionality.
- **Daylight Reflectance:** The daylight directional reflectance of the cured modified urethane material (without reflective media) shall be a minimum of 80 percent (white) and 50 percent (yellow) relative to magnesium oxide when tested using a color spectrophotometer with a 45 degree circumferential / zero degrees geometry, illuminant C, and two degrees observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm. In addition, the color of the yellow modified urethane shall visually match Color Number 33538 of Federal Standard 595a with chromaticity limits as follows:

x	0.490	0.475	0.485	0.539
y	0.470	0.438	0.425	0.456

- **Weathering Resistance:** The modified urethane, when mixed in the proper ratio and applied at 0.35 to 0.41 mm (14 to 16 mils) wet film thickness to an aluminum alloy panel (Federal Test Std. No. 141, Method 2013) and allowed to cure for 72 hours at room temperature, shall be subjected to accelerated weathering for 75

hours. The accelerated weathering shall be completed by using the light and water exposure apparatus (fluorescent UV—condensation type) and tested according to ASTM G 53.

The cycle shall consist of four hours UV exposure at 50 °C (122 °F) and four hours of condensation at 40 °C (104 °F). UVB 313 bulbs shall be used. At the end of the exposure period, the material shall show no substantial change in color or gloss.

- Drying Time: The modified urethane material, when mixed in the proper ratio and applied at 0.35 to 0.41 mm (14 to 16 mils) wet film thickness and with the proper saturation of glass spheres, shall exhibit a no-tracking time of three minutes or less when tested according to ASTM D 711.
- Adhesion: The catalyzed modified urethane pavement marking materials when applied to a 100 x 100 x 50 mm (4 x 4 x 2 in) concrete block shall have a degree of adhesion which results in a 100 percent concrete failure in the performance of this test.

The concrete block shall be brushed on one side and have a minimum strength of 24,100 kPa (3,500 psi). A 50 mm (2 in) square film of the mixed modified urethane shall be applied to the brushed surface and allowed to cure for 72 hours at room temperature. A 50 mm (2 in) square cube shall be affixed to the surface of the modified urethane by means of an epoxy glue. After the glue has cured for 24 hours, the modified urethane specimen shall be placed on a dynamic testing machine in such a fashion so that the specimen block is in a fixed position and the 50 mm (2 in) cube (glued to the modified urethane surface) is attached to the dynamometer head. Direct upward pressure shall be slowly applied until the modified urethane system fails. The location of the break and the amount of concrete failure shall be recorded.

- Hardness: The modified urethane marking materials, when tested according to ASTM D- 2240, shall have a Shore D Hardness greater than 75. Films shall be cast on a rigid substrate at 0.35 to 0.41 mm (14 to 16 mils) in thickness and allowed to cure at room temperature for 72 hours before testing.
- Abrasion: The abrasion resistance shall be evaluated on a Taber Abrader with a 1,000 gram load and CS-17 wheels. The duration of test shall be 1,000 cycles. The wear index shall be calculated based on ASTM test method D-4060 and the wear index for the catalyzed material shall not be more than 80. The tests shall be run on cured samples of modified urethane material which have been applied at a film thickness of 0.35 to 0.41 (14 to 16 mils) to code S-16 stainless steel plates. The films shall be allowed to cure at room temperature for at least 72 hours and not more than 96 hours before testing.
- Tensile: When tested according to ASTM D-638, the modified urethane pavement marking materials shall have an average tensile strength of not less than 6,000 pounds per square inch. The Type IV Specimens shall be pulled at a rate of 1/4"

per minute by a suitable dynamic testing machine. The samples shall be allowed to cure at 75 °F+ 2°F for a minimum of 24 hours and a maximum of 72 hours prior to performing the indicated tests.

- Compressive Strength: When tested according to ASTM D-695, the catalyzed modified urethane pavement marking materials shall have a compressive strength of not less than 12,000 pounds per square inch. The cast sample shall be conditioned at 75°F+ 2°F for a minimum of 72 hours before performing the indicated tests. The rate of compression of these samples shall be no more than ¼ inch per minute.
- Glass Spheres: The glass spheres shall meet the requirements of Article 1095.04(m) and Article 1095.07 of the Standard Specifications for first drop and second drop glass beads.
- The material shall be shipped to the job site in substantial containers and shall be plainly marked with the manufacturer's name and address, the name and color of the material, date of manufacture and batch number.
- Prior to approval and use of the modified urethane pavement marking materials, the manufacturer shall submit a notarized certification of an independent laboratory, together with the results of all tests, stating these materials meet the requirements as set forth herein. The certification test report shall state the lot tested, manufacturer's name, brand name of modified urethane and date of manufacture. The certification shall be accompanied by one half-liter (one-pint) samples each of Part A and Part B. Samples shall be sent in the appropriate volumes for complete mixing of Part A and Part B.

After approval by the Department, certification by the modified urethane manufacturer shall be submitted for each batch used. New independent laboratory certified test results and samples for testing by the Department shall be submitted any time the manufacturing process or paint formulation is changed. All costs of testing (other than tests conducted by the Department) shall be borne by the manufacturer.

- Acceptance samples shall consist of one half-liter (one-pint) samples of Part A and Part B, of each lot of paint. Samples shall be sent in the appropriate volumes for complete mixing of Part A and Part B. The samples shall be submitted to the Department for testing, together with a manufacturer's certification. The certification shall state the formulation for the lot represented is essentially identical to that used for qualification testing. All, acceptance samples shall be taken by a representative of the Illinois Department of Transportation. The modified urethane pavement marking materials shall not be used until tests are completed and they have met the requirements as set forth herein.
- The manufacturer shall retain the test sample for a minimum of 18 months.

APPLICATION EQUIPMENT:

The modified urethane pavement marking compounds shall be applied through equipment specifically designed to precisely meter the two components in the ratio of 2:1 and approved by the manufacturer of the material. This equipment shall produce the required amount of heat at the mixing head and gun tip and maintain those temperatures within the tolerances specified. This equipment shall also have as an integral part of the gun carriage, a high pressure air spray capable of cleaning the pavement immediately prior to the marking application.

The equipment shall be capable of spraying both yellow and white urethane, according to the manufacturer's recommended proportions and be mounted on a truck of sufficient size and stability with an adequate power source to produce lines of uniform dimensions and prevent application failure. The truck shall have at least two urethane tanks each of 415 L (110 gal) minimum capacity and shall be equipped with hydraulic systems. It shall be capable of placing stripes on the left and right sides and placing two lines on a three-line system simultaneously with either line in a solid or intermittent pattern, in yellow or white, and applying glass beads by the double drop pressurized bead system. The system shall apply both the first drop glass beads and the second drop glass beads at a rate of 1.2 kg per L (10 lb/gal). The equipment shall be equipped with pressure gauges for each proportioning pump. All guns shall be in full view of operators at all times. The equipment shall have a metering device to register the accumulated installed quantities for each gun, each day. Each vehicle shall include at least one operator who shall be a technical expert in equipment operations and urethane application techniques. Certification of equipment shall be provided at the preconstruction conference.

APPLICATION:

The pavement shall be cleaned by a method approved by the Engineer to remove all dirt, grease, glaze or any other material that would reduce the adhesion of the markings with minimum or no damage to the pavement. New PCC pavements shall be blast-cleaned to remove all curing compounds.

Markings shall be applied to the cleaned surfaces on the same calendar day. If this cannot be accomplished, the surface shall be re-cleaned prior to applying the markings. Existing pavement markings shall be at least 90 percent removed. No markings shall be applied until the Engineer approves the cleaning.

Widths, lengths and shapes of the cleaned surface shall be prepared wider than the modified urethane pavement marking material to be applied, such that a prepared area is on all sides of the urethane pavement marking material after application.

New asphalt concrete and seal coated surfaces shall be in place a minimum of two weeks prior to marking applications.

The cleaning operation shall be a continuous moving operation process with minimum interruption to traffic.

The pavement markings shall be applied during conditions of dry weather and subsequently dry pavement surfaces at a minimum uniform wet thickness of **25 mils (0.64 mm)** according to the manufacturer's installation instructions. The application and combination of reflective media (glass beads and/or reflective elements) shall be applied at a rate specified by the manufacturer. At the time of installation the pavement surface temperature shall be 40 °F (5 °C) and rising and the ambient temperature shall be 35 °F (2 °C) and rising. The pavement surface temperature and the ambient temperatures shall be determined and documented before the start of each of marking operation. The pavement markings shall not be applied if the pavement shows any visible signs of moisture or it is anticipated that moisture, such as rain showers, may occur during the installation and curing periods. The Engineer shall determine the atmospheric conditions and pavement surface conditions that produce satisfactory results.

Unless directed by the Engineer, lines shall not be laid directly over a longitudinal crack or joint. The edge of the center line or lane line shall be offset a minimum distance of 50 mm (2 inches) from a longitudinal crack or joint. Edge lines shall be approximately 50 mm (2 inches) from the edge of pavement. The finished center and lane lines shall be straight, with the lateral deviation of any 3 meter (10-foot) line not to exceed 25 mm (1 inch).

NOTIFICATION:

The Contractor shall notify the Engineer 72 hours prior to the placement of the markings in order that an inspector can be present during the operation. At the time of this notification, the Contractor shall indicate the manufacturer and lot numbers of urethane and reflective media that he intends to use. The Engineer will ensure that the approved lot numbers appear on the material package. Failure to comply with this provision may be cause for rejection.

The Contractor shall provide an accurate temperature-measuring device(s) that shall be capable of measuring the pavement temperature prior to application of the material, the material temperature at the gun tip and the material temperature prior to mixing.

The Contractor shall be required to maintain a minimum initial retroreflectivity for all epoxy pavement/ modified urethane marking that he/she applies, as follows:

Material	Color	Retroreflectivity (mi ¹¹ icande ¹ as/m ² /1ux)
Urethane	White	300
Urethane	Yellow	250

The Engineer may measure the retroreflectivity a minimum of twelve (12) hours after and within fourteen (14) days of the application. The Engineer will take a minimum of ten (10) readings per color line, evenly spaced, on a 1,000 meter (0.6 mile) roadway section on all roadways specified in the schedule of quantities for epoxy pavement marking or as determined by the Engineer. The Engineer will

average all of the readings for each color line within the 1,000 meter section of roadway to determine the retroreflectivity. The Contractor shall be required to replace all urethane pavement that not meeting the minimum retroreflectivity requirements at no additional expense to this contract.

INSPECTION:

The urethane pavement markings will be inspected following installation, but no later than December 15, and inspected following a winter performance period that extends 180 days from December 15 in accordance with the provisions of Article 780.10 of the Standard Specification for Road and Bridge Construction.

METHOD OF MEASUREMENT:

The lines will be measured for payment in feet of urethane pavement marking lines applied and accepted, measured in place. Double yellow lines will be measured as two separate lines. Words and symbols shall conform to the size and dimensions specified in the Manual on Uniform Traffic Control Devices and Standard 780001 and will be measured based on total areas indicated in table 1 or as specified in the plans.

BASIS OF PAYMENT:

This work will be paid for at the contract unit prices per foot applied line for URETHANE PAVEMENT MARKING – LINE 4, 6, 8, 12, 24 inches or per square foot URETHANE PAVEMENT MARKING – LETTERS & SYMBOLS measured as specified herein.

SPECIAL PROVISIONS – 45 MIL HOT SPRAY THERMOPLASTIC PAVEMENT MARKINGS

This work shall consist of furnishing and applying spray thermoplastic pavement marking lines, sizes and colors as shown on the plans. The material shall be a mixture of resins and other materials providing an essentially nonvolatile thermoplastic compound especially developed for traffic markings. Spray thermoplastic pavement markings shall be applied only by contractors "approved" for TRUCK APPLICATION ONLY, on the list of Approved Thermoplastic Contractors maintained by the IDOT Engineer of Operations and in effect on the date of advertisement for bids.

Ingredient Materials:

- Binder. The binder shall consist of a mixture of synthetic resins, at least one of which is solid at room temperature. The total binder content of the thermoplastic compound shall be well distributed throughout the compound. The binder shall be free from all foreign objects or ingredients that would cause bleeding, staining or discoloration. The binder shall be 25 percent minimum by weight of the thermoplastic compound. The binder shall be characterized by an "IR Spectra". Future shipments of binder will be checked by an "IR Spectra" to verify that the binder has not been changed.
- Pigment. The pigment used for the white thermoplastic compound shall be a highgrade pure (minimum 93 percent) titanium dioxide (TiO₂). The white pigment content shall not be less than 10 percent by weight and shall be uniformly distributed throughout the thermoplastic compound.

The pigments used for the yellow thermoplastic compound shall be heat resistant, and color-fast yellows, golds and oranges, which shall produce a compound meeting the requirements of the current Federal Highway Color Tolerance Chart, PR Color No. 1. The medium chrome yellow pigment content shall be not less than 4 percent by weight and shall be uniformly distributed throughout the thermoplastic compound.

- Filler: The filler to be incorporated with the resins as a binder shall be a white calcium carbonate, silica, or an approved substitute. Any filler, which is insoluble in 6N hydrochloric acid, shall be of such particle size as to pass a No. 100 (150 µm) sieve.

Glass Beads.

- (1) Scope: This specification covers glass beads to be used for reflectorizing pavement marking lines.

Type A – uncoated

Type B - moisture resistant, silicone coated

Type A shall be used as intermix beads with thermoplastic pavement marking materials. They shall be uniformly mixed throughout the material at the rate of not less than 25 percent by weight (retained on the No. 100 (150 µm) sieve) of thermoplastic compound. Type B shall be used as drop-on beads with thermoplastic pavement marking materials and shall be applied uniformly at a minimum rate of 6 pounds per 100 square feet (2.9 kilograms per 10 square meters):

(2) Properties:

The glass beads furnished under this specification shall consist essentially of transparent, water-white glass particles of a spherical shape. They shall be manufactured from a glass of a composition designed to be highly resistant to traffic wear and to the effects of weathering. The glass beads shall conform to the following requirements:

- Sieve Analysis.

The glass beads shall meet the following sieve requirements:

Total Percent (By Weight)	Sieve Size Passing
• No. 20 (850 µm)	100
• No. 30 (600 µm)	75 - 100
• No. 50 (300 µm)	15 - 40
• No. 100 (150 µm)	0 - 5
• No. 200 (75 µm)	0 - 1

- Imperfections. The surface of the glass beads shall be free of pits and scratches. The glass beads shall be spherical in shape and shall contain not more than 20 percent by weight of irregular shapes when tested by the standard method using a vibratile inclined glass plate as adopted by the Department.
- Index of Refraction. The index of refraction of the glass beads shall be not less than 1.50 when tested by the immersion method at 77 °F (25 °C).
- Silica Content. The glass beads shall contain not less than 65 percent silica (SiO₂).
- Chemical Stability. Glass beads which show a tendency toward decomposition, including surface etching, when exposed to paint or thermoplastic constituents will be rejected. The glass beads shall be tested by Federal Specification TT-B-1325B, Section 4.3.9 (water resistance) and evaluated for compliance with Section 3.2.9, with the following exceptions:

The size of the sample to be tested shall be 25 grams and the reflux time shall be 5 hours.

- Flowing Properties. The glass beads shall flow uniformly through dispensing equipment in atmospheric humidity up to 94%.

Intermix beads shall pass the following test: One hundred grams of glass beads, spread evenly and thinly in a suitable container, shall be conditioned at 77 °F (25 °C) for 4 hours over a solution of sulfuric acid (Sp. Gr. 1.10) in a closed desiccator. After 4 hours, the glass beads shall flow readily through a clean glass analytical funnel, 60°, 75 mm diameter and 105 mm stem. Inside diameter of the stem shall be a nominal 1/4 inch (6.35 mm).

The drop-on beads shall have a silicone, moisture resistant coating and pass the following test: One hundred grams of beads are placed in a 600 ml beaker and an equivalent volume of distilled water shall be added to the beaker. The beaker will then stand for 5 minutes, at the end of which time the water shall be carefully poured off and the beads transferred to a clean dry beaker and allowed to stand for 5 minutes. The beads will then be poured slowly into a standard glass funnel (Corning 6120), 127 mm diameter, 102 mm stem length and 11 mm stem inside diameter.

The beads shall flow through the funnel stem without stoppage. Slight initial agitation to start the flow through the funnel at the beginning of the test is permissible.

- Packaging. The Type B glass beads shall be delivered in approved moisture proof bags consisting of a least five-ply paper construction unless otherwise specified. Each bag shall contain 50 pounds (22.7 kg) net, and shall be legibly marked with the manufacturer, specifications and type, lot number, and the month and year the glass beads were packaged.

Thermoplastic Compound:

(a) Characteristic Requirements:

- In the plastic state, the material shall not give off fumes that are toxic or otherwise injurious to persons or property. The manufacturer shall provide material safety data sheets for the product.
- The temperature versus viscosity characteristic of the plastic material shall remain constant and the material shall not deteriorate in any manner during reheating processes.

- There shall be no obvious change in color of the material as a result of repeated heating or from batch to batch. The maximum elapsed time after application after which normal traffic will leave no impression or imprint on the new stripe shall be 30 seconds when the air and road surface temperature is approximately 70 ± 3 °F (21 ± 2 °C). After application and proper drying, the material shall show no appreciable deformation or discoloration, shall remain free from tack, and shall not lift from the pavement under normal traffic conditions within a road temperature range of -20 to 150 °F (-28.9 to 65.6 °C). The stripe shall maintain its original dimensions and placement.

Cold ductility of the material shall be such as to permit normal dimensional distortion as a result of traffic impact within the temperature range specified.

- The material shall provide a stripe that has a uniform thickness throughout its cross section and has the density and character to provide a sharp edge of the line.
- The thermoplastic compound after heating for 4 hours \pm 5 min. at 375 ± 3 °F (190.6 ± 2 °C) and cooled at 77 °F (25 °C) shall meet the following requirements for daylight reflectance and color, when tested, using a color spectrophotometer with 45° circumferential / 0° geometry, illuminant C, and 2° observer angle. The color instrument shall measure the visible spectrum from 380 to 720 nm with a wavelength measurement interval and spectral bandpass of 10 nm.

White: Daylight Reflectance, 75 percent minimum

*Yellow: Daylight Reflectance, 45 percent minimum

*Shall match Federal Highway Color Tolerance Chart, PR Color No. 1.

- Specific Gravity - the specific gravity of the thermoplastic material shall not exceed 2.15.
- Softening Point - After heating the thermoplastic material for 4 hours \pm 5 min. at 375 ± 3 °F (190.6 ± 2 °C) and testing in accordance with ASTM E28, the material shall have a minimum softening point of 180 °F (82.2 °C) as measured by the ring and ball method.
- Tensile Bond Strength - After heating the thermoplastic material for 4 hours \pm 5 min. at 375 °F (190.6 °C), the tensile bond strength to unprimed, sandblasted portland cement concrete block, 0.0625 inch (1.587 mm) thick film drawn-down 375 °F (190.6 °C), tested at 75 ± 2 °F (23.9 ± 1 °C) shall exceed 180 psi (1.24 Mpa) when tested in accordance with ASTM D4796-88.

- Impact Resistance - After heating the thermoplastic material for 4 hours \pm 5 min at 375 ± 3 °F (190.6 ± 2 °C) the impact resistance shall be a minimum of 50 inch pounds (0.576 kilogram meters) with no cracks or bond loss when 0.0625 inch (1.587 mm) thick film drawdown is made at 375 °F (190.6 °C) on an unprimed sandblasted Portland cement concrete block, male indenter 5/8 inch (15.875 mm), no female Die, tested at 75 ± 2 °F (23.9 ± 1 °C) when tested in accordance with ASTM D2794 minimum.
- Yellowness Index - The white thermoplastic material shall not exceed a yellowness index of 12 when tested in accordance with ASTM D1925.

(b) Identification

Each package of material shall be stenciled with the manufacturer's name, the type of material and IDOT specification number, the month and year the material was packaged and lot number. Lot numbers must begin with the last two digits of the year manufactured and be sequential with Lot 1. The letters and numbers used in the stencils shall be a minimum of 1/2 inch (12.7 mm) in height.

(c) Packaging

The thermoplastic material shall be packaged in suitable containers that will not adhere to the product during shipment and storage. The container of thermoplastic material shall weigh approximately 50 lbs (22.7 kg). Each container shall designate the color, binder (alkyd or hydrocarbon), spray and user information. The label shall warn the user that the material shall be heated in the range of 350 – 400 °F (177 – 204 °C).

(d) Storage Life

The material shall meet the requirements of this specification for a period of one year. The thermoplastic must also melt uniformly with no evidence of skins or unmelted particles for this one year period. The manufacturer shall replace any material that does not meet the above requirements.

Sampling and Testing:

- Unless otherwise provided, all materials shall be sampled and tested in accordance with the latest published standard methods of the American Society for Testing and Materials, and revisions thereof, in effect on the date of invitation for bids, where such standard methods exist. In case there are no ASTM Standards which apply, applicable standard methods of the American Association of State Highway Transportation Officials, or the Federal Government, or of other recognized standardizing agencies shall be used.

- The right is reserved to inspect the material either at the place of manufacture or at the destination or at both places. If inspected at the place of manufacture, the manufacturer shall furnish such facilities as may be required for collecting and forwarding samples, and shall also furnish facilities for testing the material during the process of manufacture, if required. Tests will be made by and at the expense of the Department. All material samples for acceptance tests shall be taken or witnessed by a representative of the Bureau of Materials and Physical Research. All material samples shall be submitted to the Engineer of Materials and Physical Research, 126 East Ash Street, Springfield, Illinois 62704-4766 at least 30 days in advance of the pavement marking operations. Random check samples may be taken at the job site at the discretion of the Engineer.
- The Engineer will test and approve the basic ingredients.
- The sample(s) shall be labeled with the lot number, date, quantity and any other pertinent information. Samples shall be submitted in the following manner:

(1) Ingredient Materials:

- Glass beads: At least three randomly selected bags or containers shall be obtained from each lot or shipment of glass beads. The content of each bag or container shall be passed through a large Riffle Sampler, thus splitting the material down until a representative 1-quart (1-liter) sample is obtained. The sample from each container shall be submitted for testing.
- Binder: One pint (0.5 liter).
- Pigments: One pint (0.5 liter).
- Filler: One pint (0.5 liter).

(2) Thermoplastic:

At least three randomly selected containers shall be obtained from each lot. A 10 pound (4.5 kg) composite sample of the three containers shall be submitted for testing and acceptance. The lot size shall be approximately 44,000 pounds (20,000 kg) unless the total order is less than this amount.

Manufacturer's Responsibility:

- The manufacturer shall perform tests on a minimum of one sample per 10,000 pounds (4,500 kg) of thermoplastic produced. Minimum tests required shall be a softening point determination and color. Manufacturer's test results shall be submitted along with the thermoplastic sample to the Bureau of Materials and Physical Research.

- The manufacturer shall retain the test sample for a minimum period of 18 months.
- The manufacturer shall furnish the Bureau of Materials and Physical Research with copies of bills of lading for all material inspected. Bills of lading shall indicate the consignee and destination, date of shipment, lot numbers, quantity, type of material, name and location of source.

Material Acceptance:

Final acceptance of a particular lot of thermoplastic will be based on the following:

- Compliance of ingredient materials with the specifications.
- Compliance of thermoplastic material with the specifications.
- Manufacturer's test results for each lot of thermoplastic have been received.
- Identification requirements are satisfactory.

Notification:

The Contractor shall notify the Engineer 72 hours prior to the placement of the thermoplastic markings in order that an inspector can be present during the operation. At the time of this notification, the Contractor shall indicate the manufacturer and lot numbers of thermoplastic and glass beads that he intends to use. The Engineer will ensure that the approved lot numbers appear on the material package. Failure to comply with this provision may be cause for rejection.

Installation Requirements:

- Before applying thermoplastic, the crack sealant shall be fully cured and hardened and the Contractor shall remove any dirt, glaze, grease, or any other material that would reduce the adhesion of the thermoplastic to the pavement.
- This thermoplastic material shall be readily renewable by placing an overlay of new material directly over old markings of the same material. Such new material shall bond itself to the old markings in such a manner that no splitting or separation takes place. The contractor shall remove all existing material that might cause premature failure of the new material.
- The thermoplastic material shall be installed in a molten state by the spray method at a minimum temperature of 350 °F (177 °C) and a maximum temperature of 400 °F (204 °C). Scorching or discoloration of material shall be

cause for rejection by the Engineer. The machinery shall be constructed so that all mixing and conveying parts, up to and including the spray gun maintain the material in the molten state.

- Thermoplastic pavement marking materials shall not be applied by the spray method when air and pavement surface temperatures are below 50 °F (10 °C) or when the surface of the pavement contains any evidence of moisture.
- Unless directed by the Engineer, lines shall not be laid directly over a longitudinal crack or joint. The edge of the center line or lane line shall be offset a minimum distance of 2 inches (50 mm) from a longitudinal crack or joint. Edge lines shall be approximately 2 inches (50 mm) from the edge of pavement. The finished center and lane lines shall be straight, with the lateral deviation of any 10 foot (3 meter) line not to exceed 1 inch (25 mm).
- A primer sealer of the type recommended by the manufacturer of the thermoplastic material shall be applied on all Portland concrete pavement surfaces, and if recommended by the manufacturer, on other types of pavement surface, prior to the installation of the thermoplastic material. The primer shall be free of solvent and water prior to the thermoplastic application.
- The thermoplastic material shall be applied at a thickness of not less than 0.045 inch (1.143 mm), but in no case shall it exceed a thickness of 0.050 inch (1.27 mm). Finished lines shall be within a ¼ inch (6.35 mm) of the width specified in the plans.
- The Contractor shall place the thermoplastic markings with adequate drop on glass in accordance with the above requirements, uniformly applied to assure nighttime reflectivity. It shall be the Contractor's responsibility to use compatible combination of thermoplastic material and beads to preclude the surface beads from sinking deeply into the thermoplastic.
- The thickness of the markings will be measured above the pavement surface at such random points as the Engineer selects to determine conformance to these specifications. If the measurements show less than 0.045 inch (1.143 mm), the Engineer will "chip" the edges of the markings at random points and measure the thickness of the chips to determine if the overall thickness of the markings is at least 0.045 inch (1.143 mm). If the overall thickness or the thickness above the pavement surface is substantially in conformance with the thickness requirements, payment will be made at 100 percent of the contract unit prices involved. When the thickness at a given location is less than 0.045 inch (1.143 mm), additional measurements will be taken on each side of such location at such intervals as the Engineer may select to determine the extent of the deficient portion of the marking. The Contractor shall then apply additional thermoplastic material and beads to bring the thickness of the markings to at least 0.045 inch (1.143 mm).

Equipment Requirements:

- The application equipment used for placing lane and edge line on County Highways shall be Truck-Mounted and meet Article 1105.01 of the Standard Specifications and the requirements listed below. When the Truck-Mounted method is used, the application equipment shall be permanently mounted on a truck of sufficient size and stability to insure smooth, straight application. The truck shall be equipped to carry a minimum of 4,000 pounds (1800 kilograms) of molten thermoplastic.

The equipment shall have the capability of automatically placing intermittent and continuous lines. The equipment shall be so constructed as to provide the various widths of pavement marking lines specified. The mounting shall be such as to allow the spray equipment to accurately follow road irregularities and produce lines of uniform dimensions.

- The equipment used to install hot applied thermoplastic material shall provide continuous uniform heating to temperatures exceeding 400 °F (204 °C), mixing and agitation of the material. Conveying parts of the equipment between the main material reservoir and the dispensing device shall prevent accumulation and clogging. All parts of the equipment, which comes in contact with the material, shall be constructed for easy accessibility and exposure for cleaning and maintenance. The equipment shall operate so that all mixing and conveying parts including the line dispensing device, maintains the material at the plastic temperature. The use of pans, aprons, or similar devices to prevent die overruns will not be permitted.
- Glass beads applied to the surface of the completed marking shall be applied by an automatic bead dispenser attached to the marking machine so that the beads are dispensed closely behind the installed marking. The glass bead dispenser shall be equipped with an automatic cut-off control synchronized with the cut-off of the thermoplastic material.
- A special kettle shall be provided for uniformly melting and heating the thermoplastic material. The kettle must be equipped with an automatic thermostat control device and material thermometer for positive temperature control and to prevent overheating or under-heating of the material. The heating kettle and application equipment shall meet the requirements of the National Fire Underwriters and the National Fire Protection Association.
- The Contractor shall provide an accurate temperature measuring device which shall be capable of measuring the pavement temperature prior to installation of the thermoplastic and the temperature of the molten thermoplastic material immediately after it is applied.

Inspection:

The 45 mil hot spray thermoplastic pavement markings will be inspected following installation, but no later than November 1, and inspected following a winter performance period that extends 180 days from November 1 in accordance with the provisions of Article 780.12 of the Standard Specification.

Method of Measurement:

Lines will be measured for payment in feet. Double yellow lines will be measured as two separate lines.

Basis of Payment:

This work will be paid for at the contract unit prices per foot of applied line width for HOT SPRAY THERMOPLASTIC PAVEMENT MARKING – LINE 4, 6 inches.

2019 Thermoplastic Pavement Marking Schedule

McHenry County Division of Transportation

Location	Removal (sqft)	L&S (sqft)	Thermoplastic Pvt. Marking-Line (lin ft)					L&S Summary			
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2 R's and X)	
Flat Iron Road, IL Rte 173 to County Line Road	25,204	72.8	75,088	120	100				2	2	
Airport Road, Flat Iron Road to Shadow Lane	3,309		9,936								
Keystone Road, IL Rte 173 to Tryon Grove Road	11,231	122.4	32,964				66				2
Johnsburg Road, Spring Grove Road to Chapel Hill Road	1,658	312.0	3,058	260			150	24	9	8	
Oak Grove Road, Lawrence Road to Graf Road	2,248	122.4	6,186				66				2
Lawrence Road, State Line Road to Lilja Road	16,294		48,931								
Alden Road, North and South of IL Rte 173	3,372		8,445	369			263	56			
Randall Road, Acorn Ln to Alexandra Blvd	1,569	436.8			300		640	146	12	12	
Walkup Road @ IL Route 176	1,276	145.6	460	1,162				198	4	4	
Virginia Road @ Berkshire Dr	565	72.8		600				96	2	2	
Virginia Road @ Teckler Blvd	565	72.8		600				96	2	2	
Total	67,291	1,357.6	185,068	3,111	400	1,119	682	31	30	4	

Thermoplastic Pavement Marking Schedule Local Agency Totals

Location	Removal (sqft)	L&S (sqft)	Thermoplastic Pvt. Marking-Line (lin ft)					L&S Summary			
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2-R's and X)	
Algonquin	12,490	500.0	30,000	0			1,000	500	0	0	
Cary	26,434	700.0	48,000	11,500			3,500	250	0	0	
Crystal Lake	400	1,620.0	55,000	9,600			1,800	1,800			
Huntley	4,353	540.8	9,761	2,026			363	144	11	20	
McHenry	2,374	764.4		1,300			360	300	21	21	
Algonquin Township	6,179	322.4	16,019	833			0	53	8	10	
Total	52,231	4,447.6	158,780	25,259	100		7,023	3,047	40	51	

Thermoplastic Pavement Marking Schedule Village of Algonquin

Location	Removal (sqft)	L&S (sqft)	Thermoplastic Pvt. Marking-Line (lin ft)				L&S Summary				
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2-Rs and X)	
Various Roads	12,490.0	500.0	30,000			1,000	500				
Total	12,490.0	500.0	30,000			1,000	500				

Thermoplastic Pavement Marking Schedule Village of Cary

Location	Removal (sqft)	L&S (sqft)	Thermoplastic Pvt. Marking-Line (lin ft)				L&S Summary			
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2-R's and X)
Various Roads	26,434.0	700.0	48,000	11,500		3,500	250			
Total	26,434.0	700.0	48,000	11,500		3,500	250			

Thermoplastic Pavement Marking Schedule City of Crystal Lake

Location	Removal (sqft)	L&S (sqft)	Thermoplastic Pvt. Marking-Line (lin ft)				L&S Summary				
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2-R's and X)	
Various Roads	400.0	1,620.0	55,000	9,600		1,800	1,800				
Total	400.0	1,620.0	55,000	9,600	0	1,800	1,800	0	0	0	0

Thermoplastic Pavement Marking Schedule Village of Huntley

Location	Removal (sqft)	L&S (sqft)	Thermoplastic Pvt. Marking-Line (lin ft)					L&S Summary		
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2-R's and X)
East Main Street	4,353	416.0	8,726	811		338	144	8	16	
Automail Drive		124.8	1,035	1,215		25		3	4	
Total	4,353	540.8	9,761	2,026		363	144	11	20	

Thermoplastic Pavement Marking Schedule

City of McHenry

Location	Removal (sqft)	L&S (sqft)	Thermoplastic Pvt. Marking-Line (lin ft)					L&S Summary		
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2-R's and X)
Various Roads	2,714	764.4		1,500		400	400	21	21	
Total	2,714	764.4	0	1,500	0	400	400	21	21	0

Thermoplastic Pavement Marking Schedule Algonquin Township

Location	Removal (sqft)	L&S (sqft)	Thermoplastic Pvt. Marking-Line (lin ft)				L&S Summary			
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2-R's and X)
Silver Lake Rd, Crystal Lake Rd to south of Oakdale Ter	2,275	104.0	6,519					2	4	
Pingree Rd, Crystal Lake Ave to Amy Dr	983	109.2	1,374	833				3	3	
Pingree Rd @ Crsytal Lake Ave	177	109.2						3	3	
Three Oaks Rd, Pingree Rd to East of Manor	1,799	0.0	5,289							
W. Rawson Bridge Rd, Rona Dr to Crystal Lake Rd	945	0.0	2,837							
Total	6,179	322.4	16,019	833	0	0	53	8	10	0

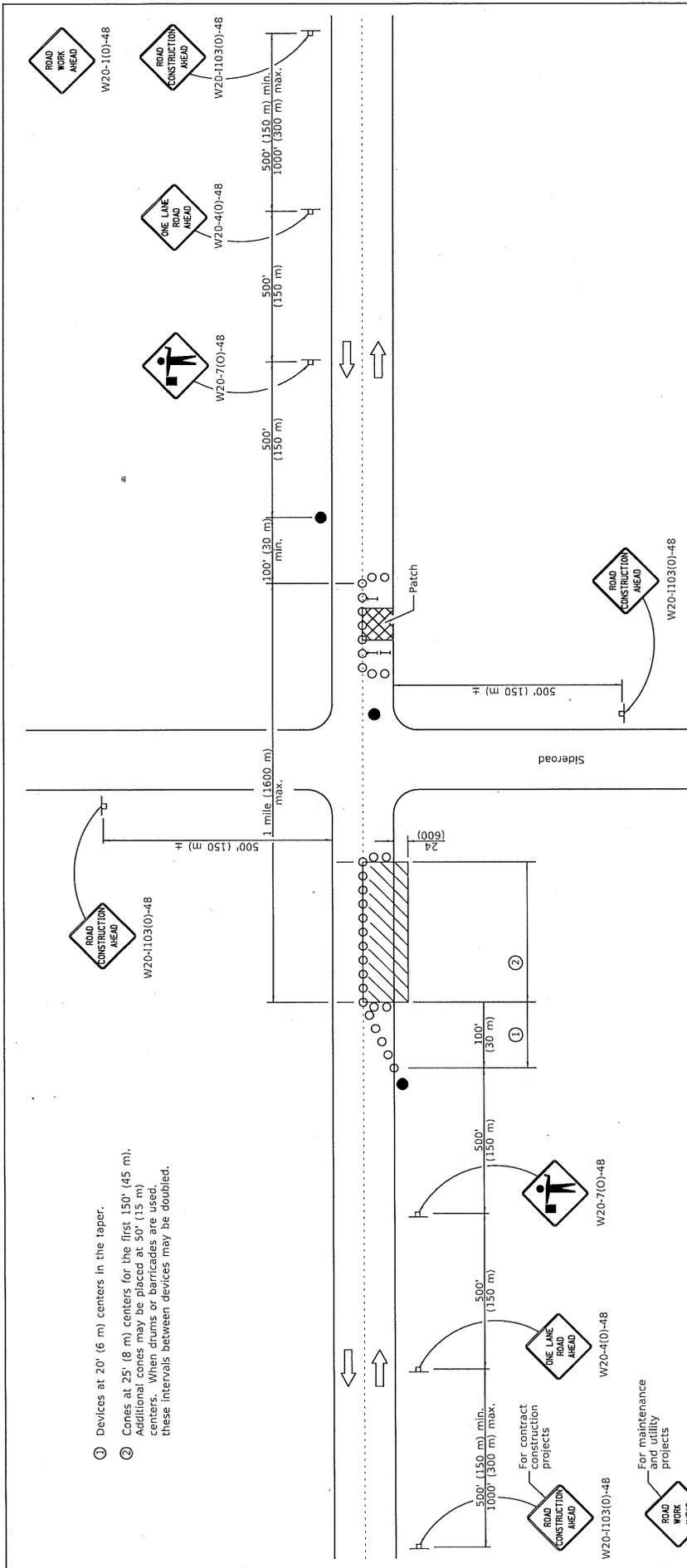
2019 Urethane Pavement Marking Schedule

McHenry County Division of Transportation

Location	Removal (sqft)	L&S (sqft)	Preformed Plastic Pvt. Marking-Line (lin ft)					L&S Summary		
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2 R's and X)
White Oaks Road @ IL Rte 173		72.8	330	59			24	2	2	
Oak Grove Road (Chemung) @ IL Rte 173			82	41			29			
Lawrence Road @ IL Rte 173		31.2	701	150			30	2		
Flat Iron Road @ Rte. 173			323	58			57			
Lawrence Road Bridge @ Weidner Road			462							
Lawrence Road Bridge @ Cash Road			672							
Lawrence Road Bridge south of Oak Grove Road			400							
Altenberg Road @ Rte. 173			122	30			27			
Oak Grove Road (Alden) @ Rte. 173			301	72			57			
Chapel Hill Road Bridge			1,178							
Cary Road @ US Rte 14			80	30			41			
Lake Cook Road @ IL Rte 62		72.8	540	143		24	24	2	2	
Haegers Bend Road @ IL Rte 62		72.8	1,240		252	106	47	2	2	
Chapel Hill Road @ IL Rte 120		36.4	774	368	244	127	77	1	1	
Miller Road Bridge		36.4	5,000					1	1	
Total		322.4	12,205	951	496	257	413			

2019 Spray Thermoplastic Pavement Marking Schedule
McHenry County Division of Transportation

Location	Removal (sqft)	L&S (sqft)	Thermoplastic Pvt. Marking-Line (lin ft)				L&S Summary			
			4"	6"	8"	12"	24"	Only	Arrow	RR Crossing (2 R's and X)
Randall Road, Acorn Ln to Alexandra Blvd			39,940	1,860						
Walkup Road/Crystal Lake Road, IL Rte 176 to 1/2 mile south of Buil Valley Rd			70,265	10,309						
Johnsburg Road, IL Rte 31 to Chapel Hill Rd			30,034	2,638						
Total			140,239	14,807						



- ① Devices at 20' (6 m) centers in the taper.
- ② Cones at 25' (8 m) centers for the first 150' (45 m). Additional cones may be placed at 50' (15 m) centers. When drums or barricades are used, these intervals between devices may be doubled.

GENERAL NOTES

This Standard is used where at any time, any vehicles, equipment, workers or their activities will encroach in the area between the center line and a line 24 (600) outside the edge of pavement for daylight operation.

When the distance between successive work areas exceeds 2000' (600 m), additional warning signs, flaggers, and taper shall be placed as shown.

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

SYMBOLS

- Work area
- Sign
- Barricade or drum
- Cone, drum or barricade
- Flagger with traffic control sign

TYPICAL APPLICATIONS

- Isolated patching
- Utility operations
- Storm sewer
- Culverts
- Cable placement

REVISIONS	
DATE	REVISIONS
1-1-19	Revised device spacing in taper.
1-1-11	Revised flagger sign.

**LANE CLOSURE, 2L, 2W,
DAY ONLY,
FOR SPEEDS ≥ 45 MPH**

STANDARD 701201-05

Illinois Department of Transportation

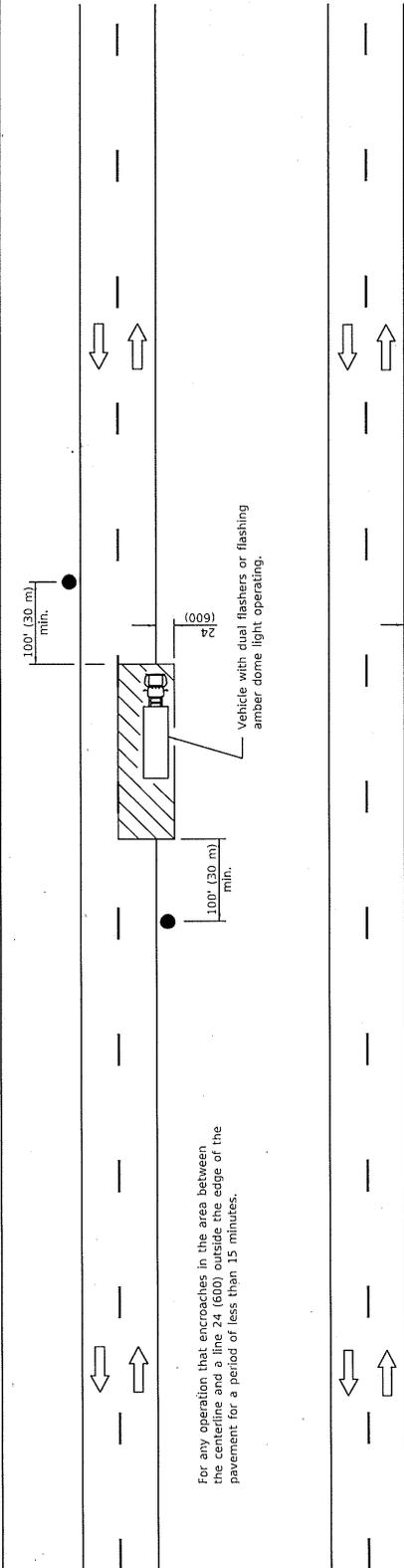
APPROVED January 1, 2019

ISSUED 1-1-97

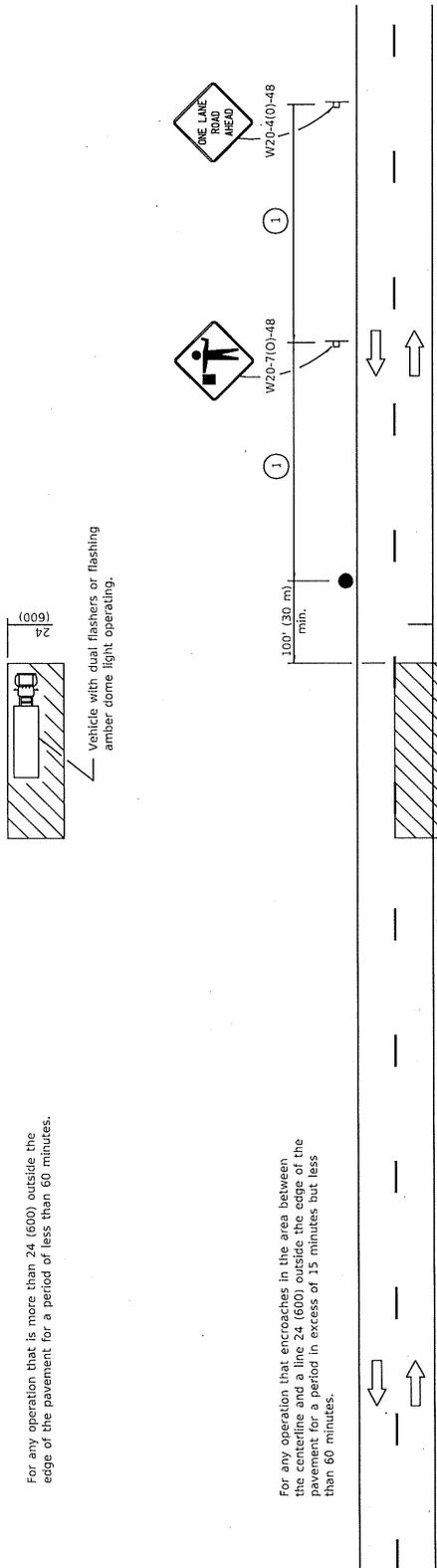
ENGINEER OF SAFETY PRICE AND ENGINEERING

APPROVED January 1, 2019

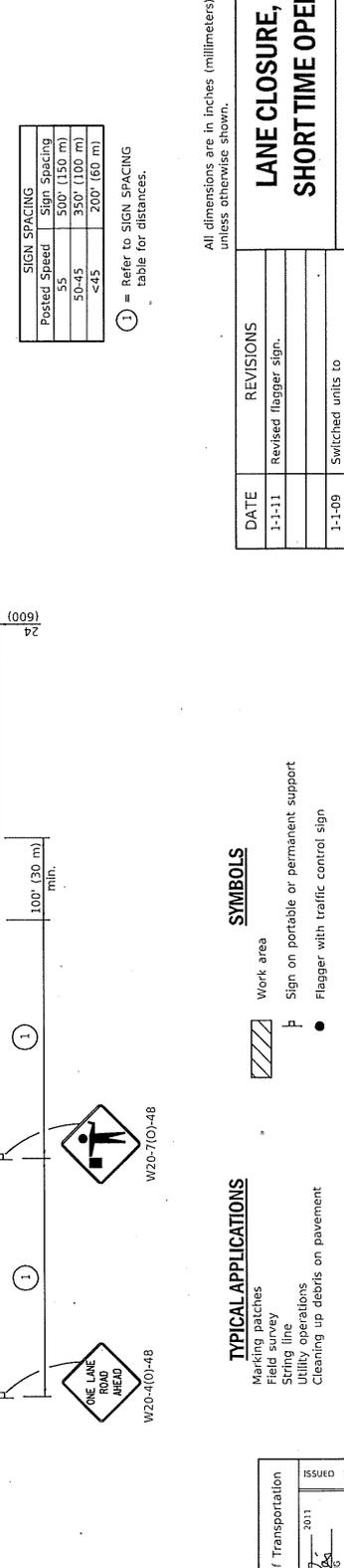
ENGINEER OF DESIGN AND ENVIRONMENT



For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period of less than 15 minutes.



For any operation that is more than 24 (600) outside the edge of the pavement for a period of less than 60 minutes.



Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

① = Refer to SIGN SPACING table for distances.

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

SYMBOLS

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

TYPICAL APPLICATIONS

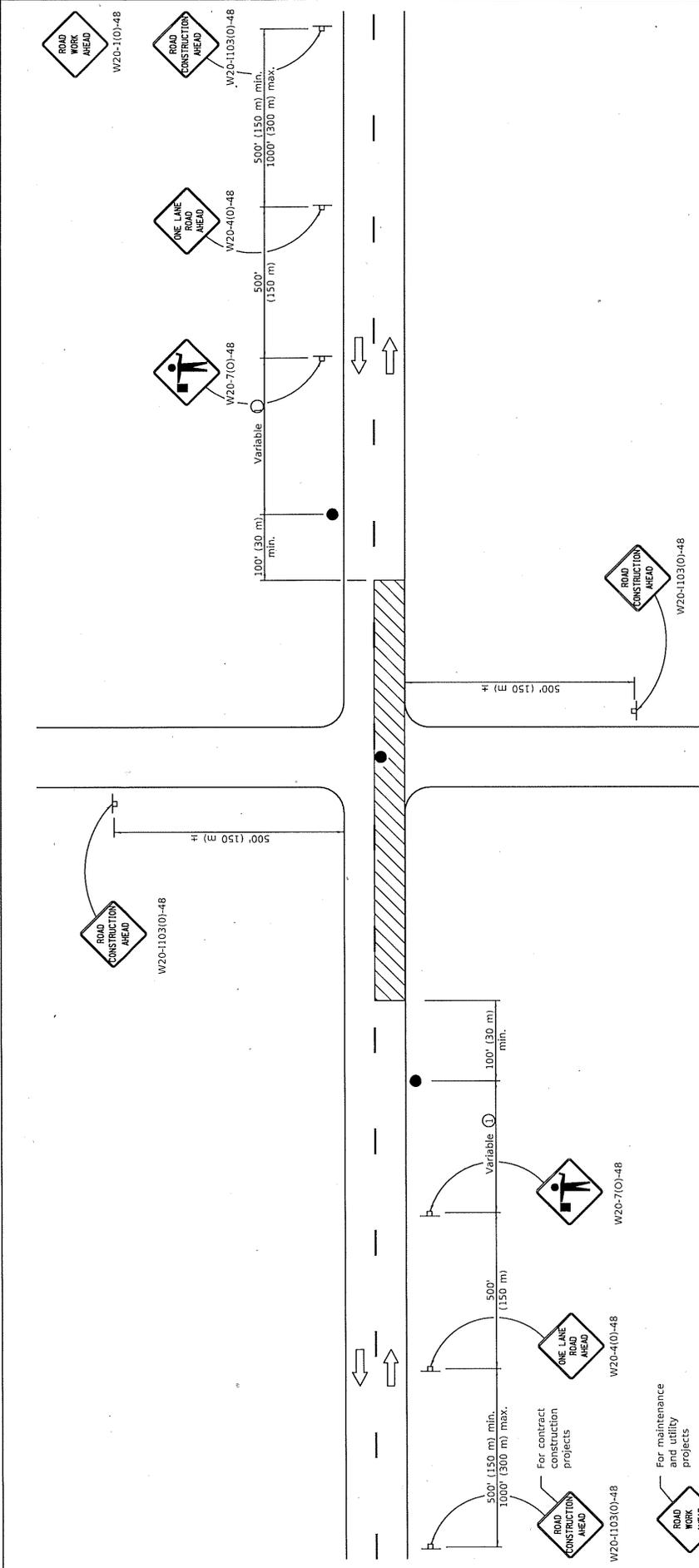
- Marking patches
- Field lay
- Spring line
- Utility operations
- Cleaning up debris on pavement

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

STANDARD 701301-04

	ISSUED 1-1-97
	PASSED JENNIFER L. ... 2011 ENGINEER OF SAFETY ENGINEERING
	APPROVED ... 2011 ENGINEER OF DESIGN AND ENVIRONMENT
	... 2011



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.

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 2 miles (3200 m), whichever is less.

SYMBOLS

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

TYPICAL APPLICATIONS

- Bituminous resurfacing
- Milling operations
- Utility operations
- Shoulder operations

For maintenance and utility projects

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

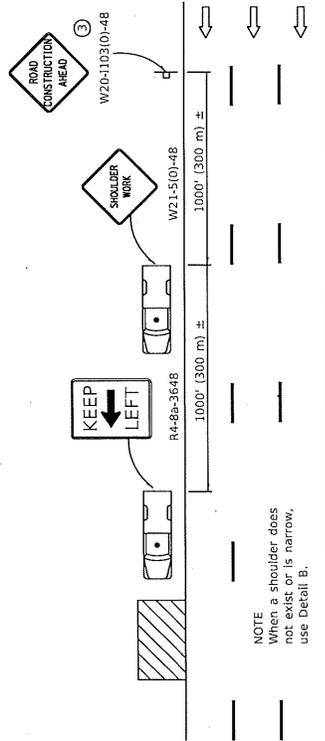
PASSED: _____ JANUARY 1, 2018

ENGINEER OF SAFETY PROC. AND ENGINEERING

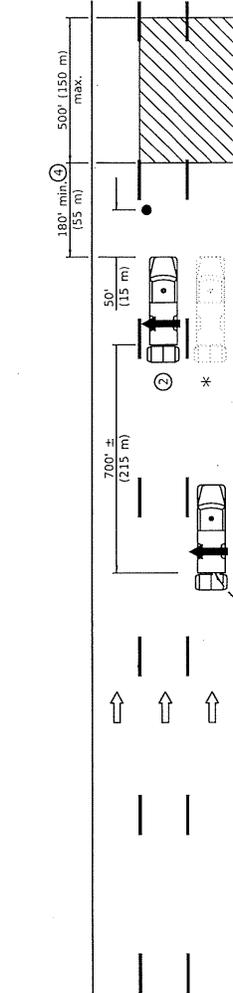
APPROVED: _____ JANUARY 7, 2018

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



DETAIL A

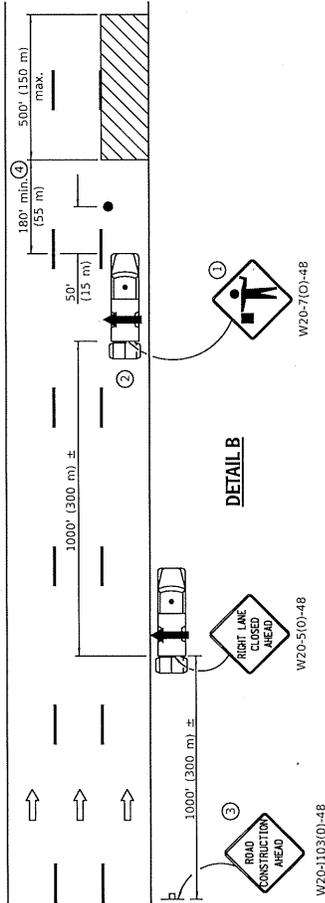


DETAIL C

* Required when workers are on the pavement.

TYPICAL APPLICATIONS

- Landscaping work
- Utility work
- Pavement marking
- Weed Spraying
- Roadometer measurements
- Debris cleanup
- Crack pouring



DETAIL B

SYMBOLS

- Arrow board
- Work area
- Truck with flashing amber light
- Truck/Trailer mounted attenuator
- Flagger with traffic control sign
- Sign

- 1 Flagger, are required when workers are on the pavement.
- 2 For striping operations only. See sign arrow detail on this standard.
- 3 For stationary operations which are on the roadway or shoulder, greater than 15 minutes and up to 1 hour.
- 4 The distance between the work and the lead truck may vary according to terrain or paint/crack sealing drying time.



G20-1101-2430
(appropriate arrow)
② when striping only

GENERAL NOTES

This Standard is used where any vehicle, equipment, workers or their activities will require:
1) stationary operations up to 1 hour, or 2) a continuous or intermittent moving operation where the average speed of movement is greater than 1 mph (2 km/h).

This Standard is also applicable when work is being performed on the shoulder of the roadway. The 'KEEP LEFT' sign shall be substituted for 'KEEP RIGHT' signs and arrow board indications shall be directed to the right.

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

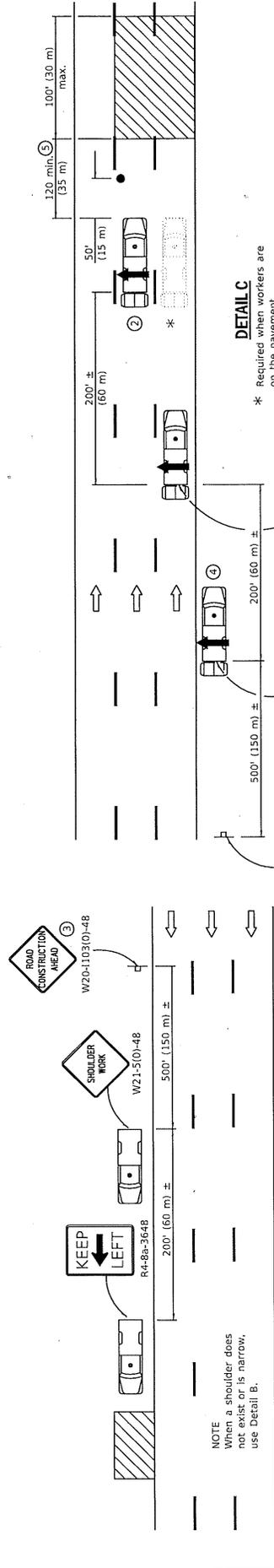
DATE	REVISIONS
1-1-17	Revised NOTE on DETAIL A to use DETAIL B in lieu of DETAIL C.
4-1-16	Added trailer option for attenuator symbol. Added note ④. Revised gen. notes.

LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH

STANDARD 701426-09

Illinois Department of Transportation
 PASSED January 1, 2017
 REGISTERED PROFESSIONAL ENGINEERING
 APPROVED January 1, 2017
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



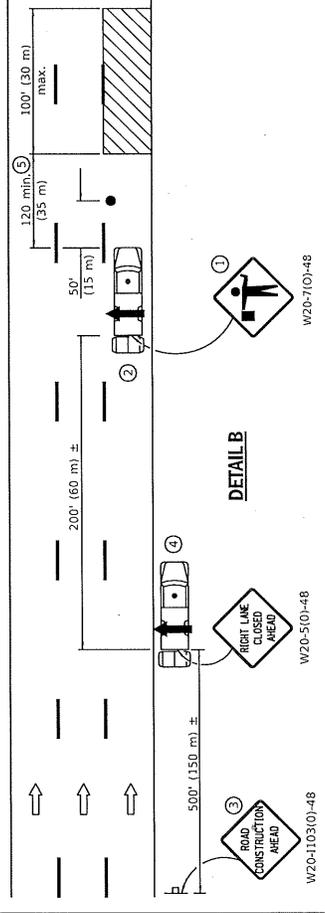
NOTE
When a shoulder does not exist or is narrow, use Detail B.

DETAIL A

- TYPICAL APPLICATIONS**
- Landscaping work
 - Utility work
 - Pavement marking
 - Weed spraying
 - Roadmeter measurements
 - Debris cleanup
 - Crack pouring

DETAIL C

* Required when workers are on the pavement.



DETAIL B

- 1) Flaggers are required when workers are on the pavement.
- 2) For striping operations only. See sign arrow detail on this standard.
- 3) For stationary operations which are on the roadway or shoulder, greater than 15 minutes and up to 1 hour.
- 4) Omit truck, attenuator and arrow board when no shoulder exists due to curb and gutter.
- 5) The distance between the work and the lead truck may vary according to terrain or paint/crack sealing time.



G20-1101-2430
(appropriate arrow)
② (when striping only)

GENERAL NOTES

This Standard is used where any vehicle, equipment, workers or their activities will require:
1) stationary operations up to 1 hour, or 2) a continuous or intermittent moving operation where the average speed of movement is greater than 1 mph (2 km/h).

This Standard is also applicable when work is being performed in the left lane(s) or on the median shoulder. Under these conditions, KEEP RIGHT signs shall be substituted for KEEP LEFT signs and arrow board indications shall be directed to the right.

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

SYMBOLS

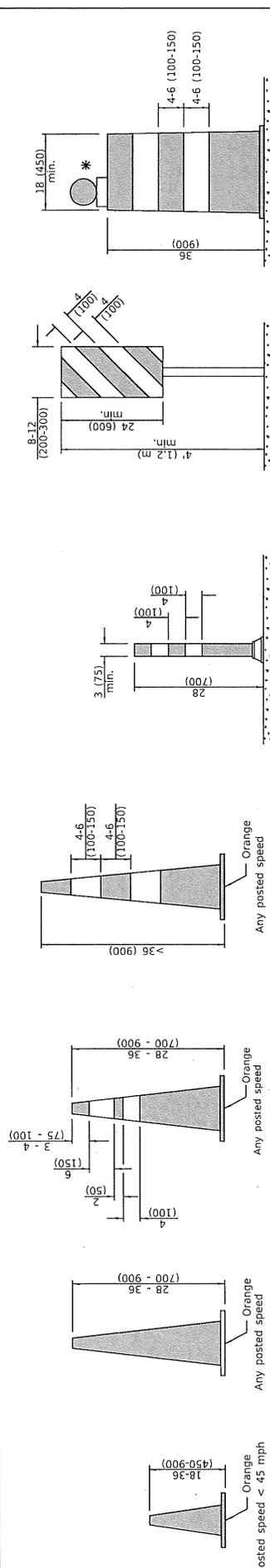
- ↑ Arrow board
- ▨ Work area
- Truck with flashing amber light
- Truck/Trailer mounted attenuator
- Flagger with traffic control sign
- ⊥ Sign

LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH

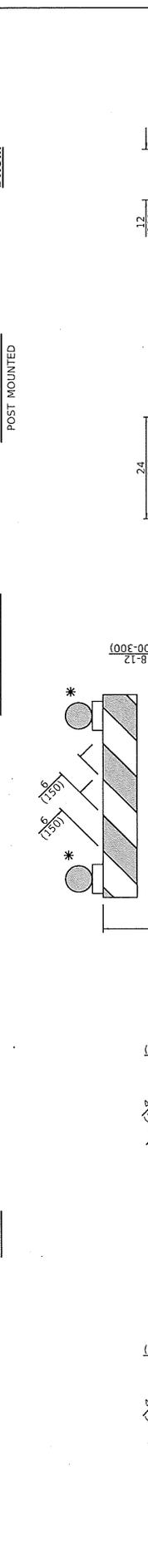
STANDARD 701427-05

DATE	REVISIONS
1-1-17	Revised 'NOTE' on DETAIL A to use DETAIL B in lieu of DETAIL C.
4-1-16	Rev. gen. notes. Added note ⑤. Rev. dist. between work and lead truck.

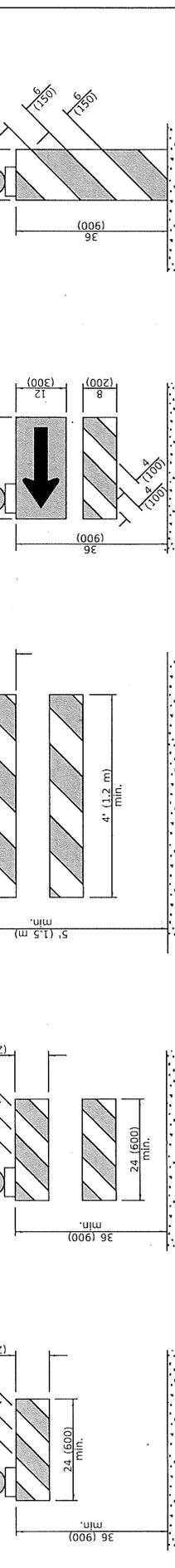
Illinois Department of Transportation
 PASSED: _____ 2017
 ENGINEER OF SAFETY PRG. AND ENGINEERING
 APPROVED: _____ 2017
 ENGINEER OF DESIGN ENVIRONMENT



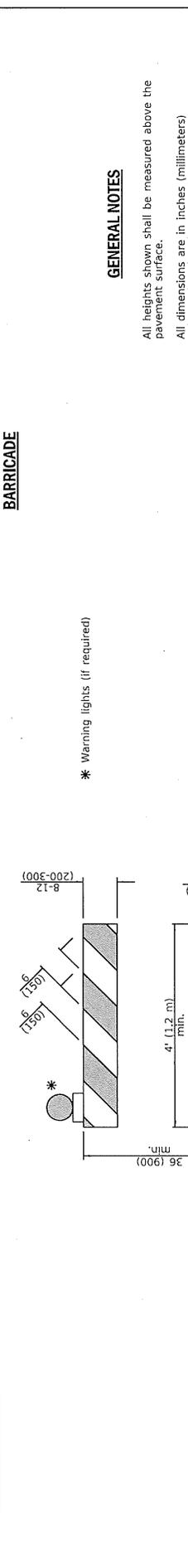
CONES
DAYTIME USE
 Posted speed < 45 mph
 Orange
 Any posted speed
DAY OR NIGHTTIME USE
 Orange
 Any posted speed



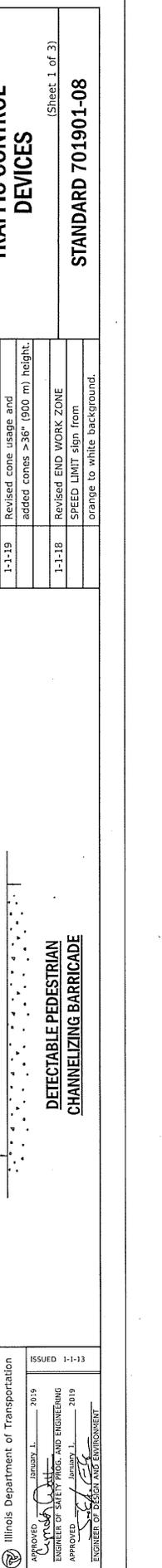
TUBULAR MARKER
 3 (75) min.
 4 (100)
VERTICAL PANEL POST MOUNTED
 8-12 (200-300)
 24 (600) min.
 4 (100) min.



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



DIRECTION INDICATOR BARRICADE
 36 (900) min.
 24 (600) min.
 12 (300) min.
VERTICAL BARRICADE
 12 (300) min.
 36 (900) min.



DRUM
 18 (450) min.
 36 (900) min.
 4-6 (100-150)
 4-6 (100-150)
DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE
 36 (900) min.
 4' (1.2 m) min.

GENERAL NOTES

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

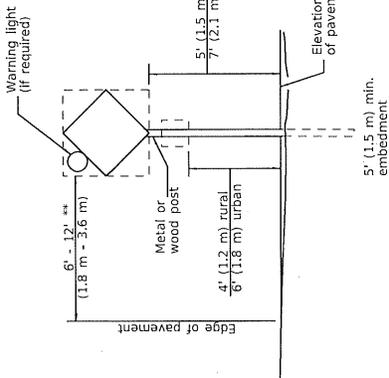
DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 m) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

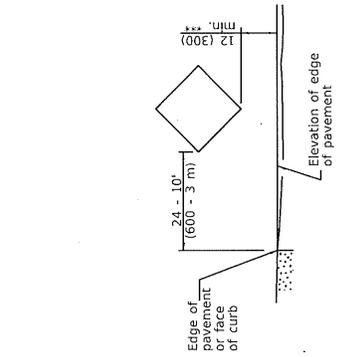
STANDARD 701901-08

Illinois Department of Transportation
 APPROVED: [Signature] 2019
 ENGINEER IN CHARGE
 ISSUED 1-1-13
 APPROVED: [Signature] 2019
 ENGINEER OF SAFETY AND ENGINEERING
 APPROVED: [Signature] 2019
 ENGINEER OF DESIGN AND ENVIRONMENT



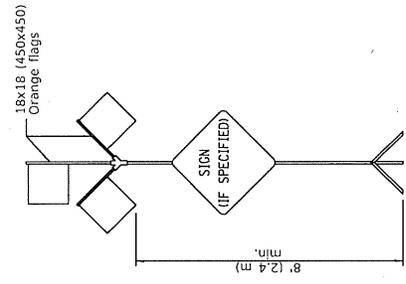
POST MOUNTED SIGNS

44 When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

44a When work operations exceed 100 ft (30 m), this dimension shall be 5' (1.5 m) min. rural / 7' (2.1 m) min. urban behind other devices, the height shall be sufficient to be seen completely above the devices.



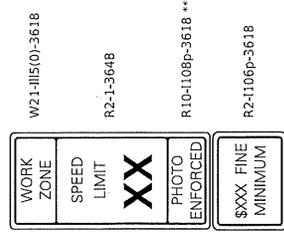
HIGH LEVEL WARNING DEVICE

ROAD CONSTRUCTION NEXT X MILES
G20-1104(0)-6036

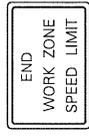
END CONSTRUCTION
G20-1105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.
ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500 (150 m) in advance of project limits.
END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).
Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



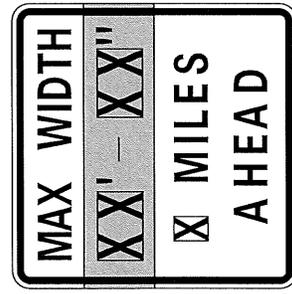
W21-1115(0)-3618
R2-1-3648
R10-1108p-3618 ****
R2-1106p-3618



G20-1103-6036

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

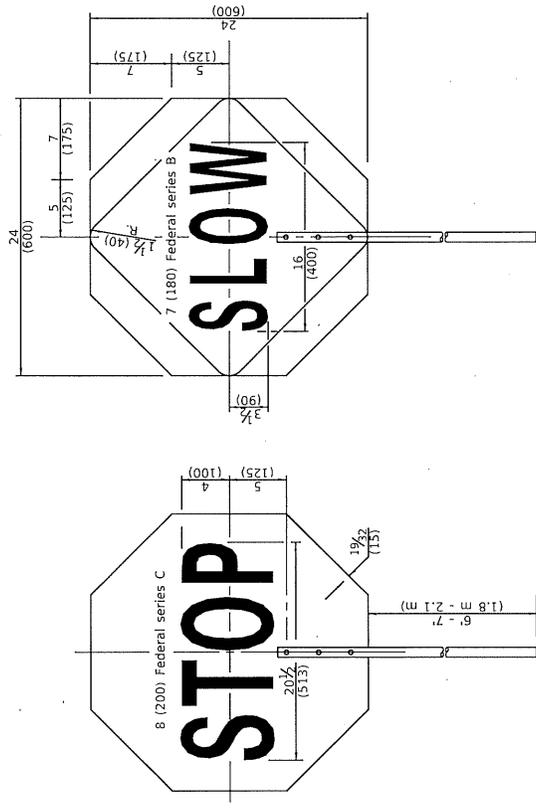
This sign shall be shown on Standards or as allowed by District Operations.
This sign shall be used when the above sign assembly is used.
**** R10-1108p shall only be used along roadways under the jurisdiction of the State.



W12-1103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FRONT SIDE
REVERSE SIDE

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

FLAGGER TRAFFIC CONTROL SIGN

STANDARD 701901-08

Illinois Department of Transportation

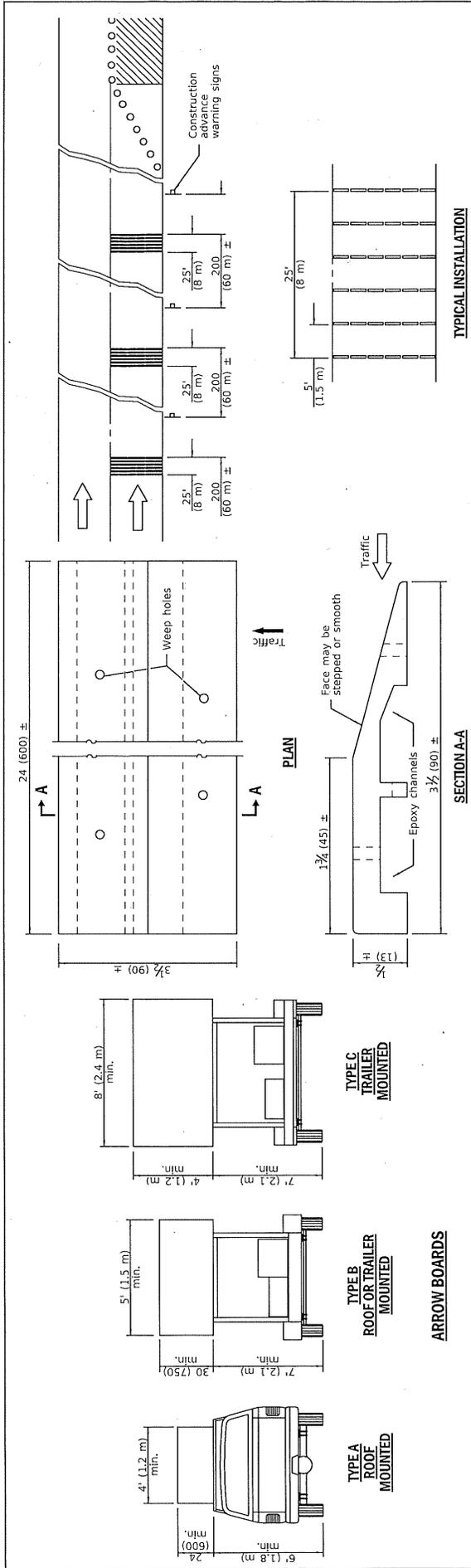
APPROVED January 1, 2019

ENGINEER OF SAFETY PROGRAMS AND ENGINEERING

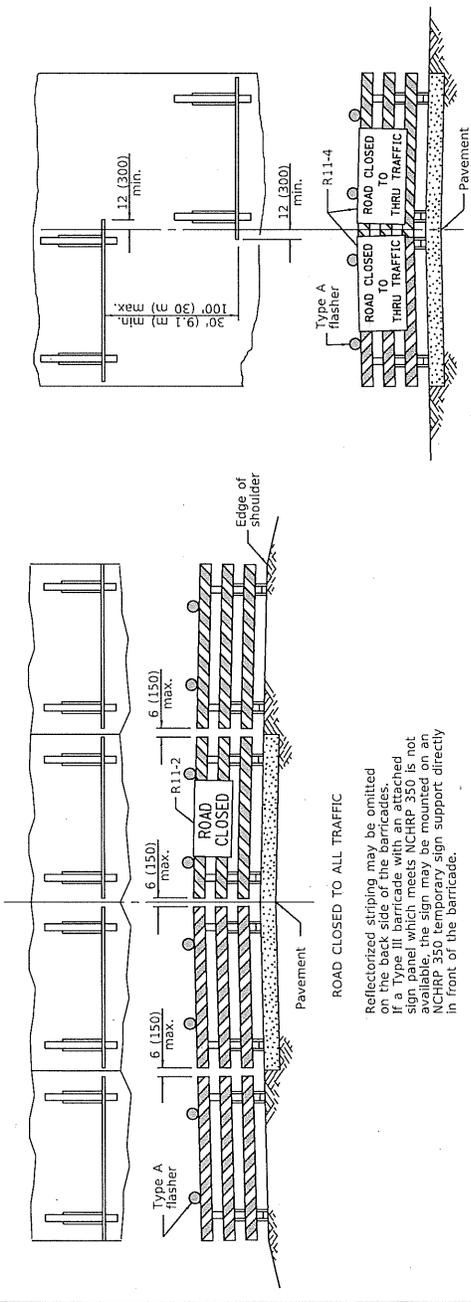
APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13



TEMPORARY RUMBLE STRIPS



ReflectORIZED striping may be omitted on both sides of the barricade. If a Type III barricade with an attached sign panel which meets NCHRP 350 is available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.

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 an NCHRP 350 temporary sign supports directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

Illinois Department of Transportation

APPROVED: [Signature] January 1, 2019

ENGINEER OF SAFETY SERVICES AND ENGINEERING

APPROVED: [Signature] January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

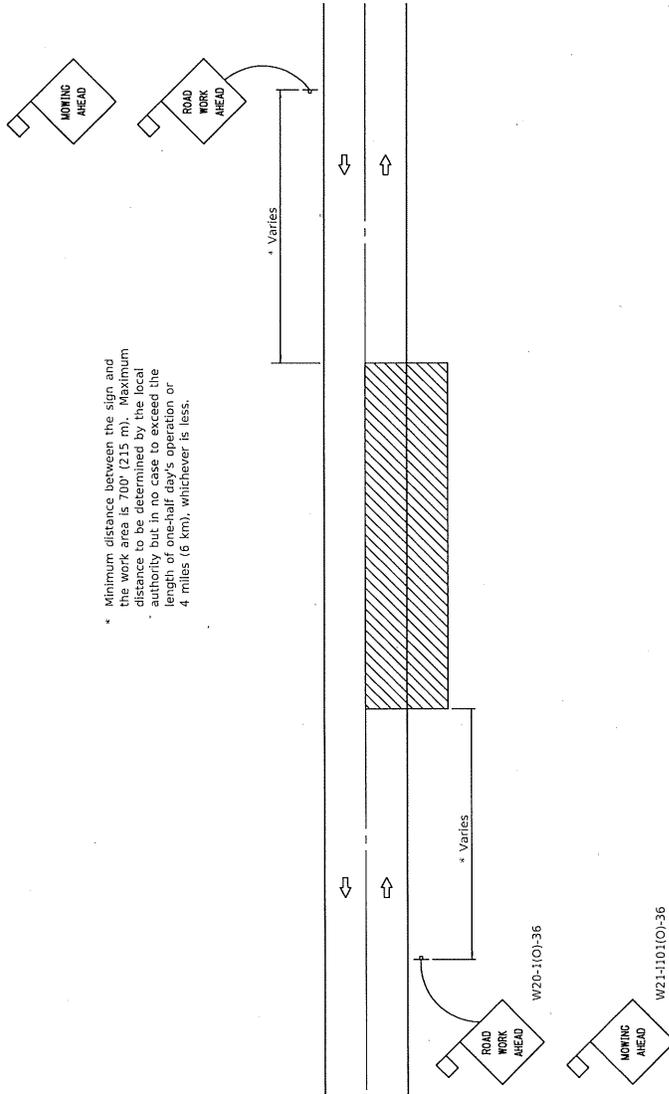
ISSUED 1-1-13

TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

STANDARD 701901-08

* Minimum distance between the sign and the work area is 700' (215 m). Maximum distance to be determined by the local authority but in no case to exceed the length of one-half day's operation or 4 miles (6 km), whichever is less.



**TWO-LANE, TWO-WAY TRAFFIC
RURAL OPERATIONS
DAY OPERATIONS ONLY**

SYMBOLS



TYPICAL APPLICATIONS

- MOWING
- SPREADING AGGREGATE
- WEED SPRAYING
- SURFACE MAINTENANCE
- BITUMINOUS RESURFACING
- CRACK POURING
- SHOULDER REPAIR
- CLEANING DITCHES

GENERAL NOTES

Maintenance operations shall be confined to one traffic lane, leaving the opposite lane open to traffic. At least 500' (150 m) of both traffic lanes shall be available for traffic movement between work areas at intervals not greater than 1000' (300 m).

When operations are on the pavement and stationary or moving at a speed less than 4 mph (6.4 km/h), the ROAD WORK AHEAD sign and appropriate symbols shall be installed in the greater of the distance between the ROAD WORK AHEAD sign and the work area. The distance between this sign and the work area shall be a minimum of 400' (120 m) but, in no case, shall exceed the length of one-half day's operation or 4 miles (6 km), whichever is less. The distance between the two signs shall be approximately 400' (120 m).

All signs are to be removed at completion of the day's operation.

Any unattended obstacle, excavation, or pavement drop off greater than 3 (75) in the work area shall be protected by Type I or Type II barricades with flashing lights.

Longitudinal dimensions may be adjusted slightly to fit field conditions.

All vehicles, equipment, men, and their activities are restricted at all times to one side of the pavement.

Flashing lights or rotating beacons are required for all maintenance vehicles while in operation.

Applicable operations illustrated in Standard 701301 may be used when operations do not exceed 15 minutes on the pavement or 60 minutes on the shoulder respectively.

All warning signs shall have minimum dimensions of 36x36 (900x900) and have black legend on an orange reflectorized background.

When fluorescent signs are used, orange flags are not required.

This case is for use on rural local roads where the local authority considers this protection to be appropriate for the specific job conditions.

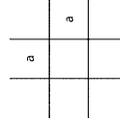
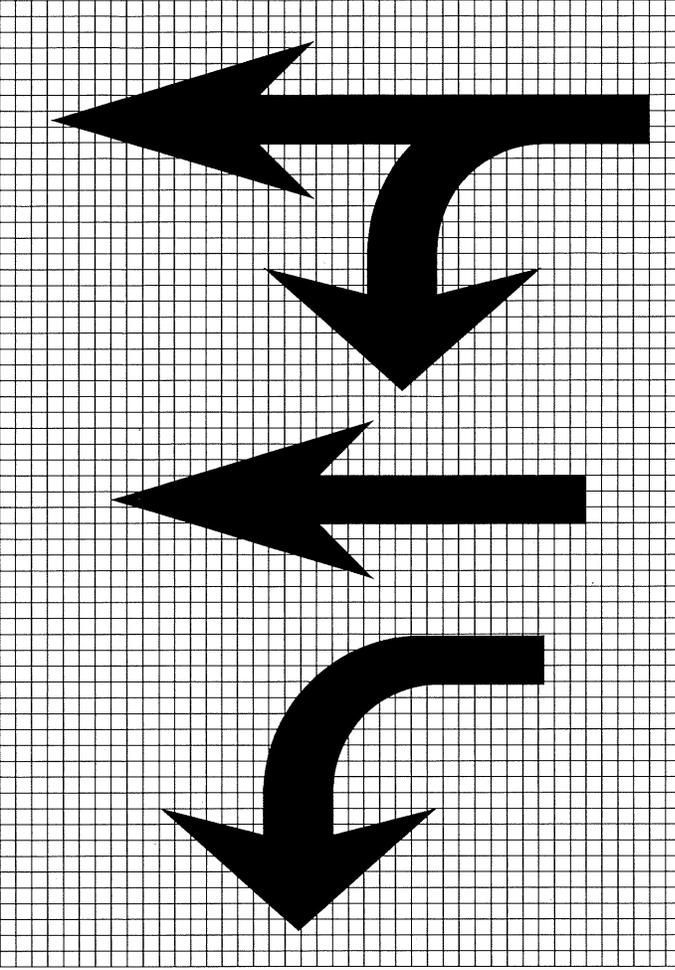
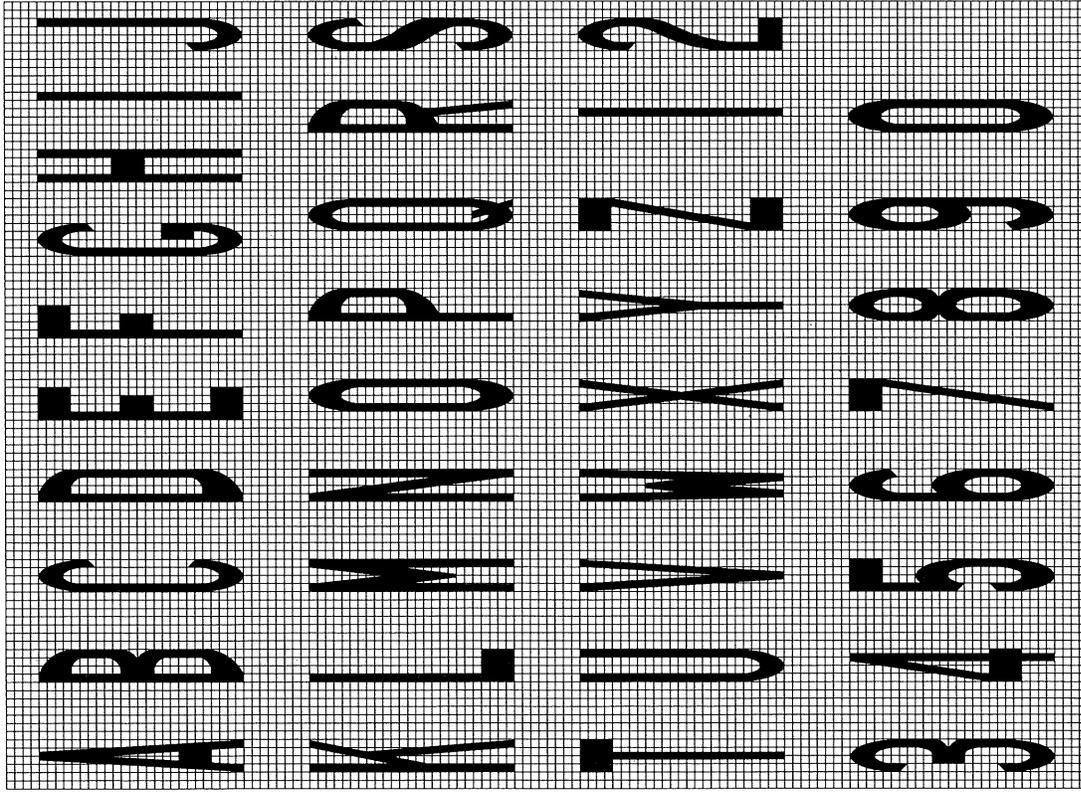
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-15	Corrected RWA sign number.
1-1-09	Switched units to English (metric). Moved one General Note.

**TRAFFIC CONTROL DEVICES-
DAY LABOR MAINTENANCE**

STANDARD B.L.R. 18-6

Illinois Department of Transportation
 PASSED: [Signature] JUNE 11, 2015
 ENGINEER OF LOCAL ROAD AND STREETS
 APPROVED: [Signature] JUNE 11, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-97



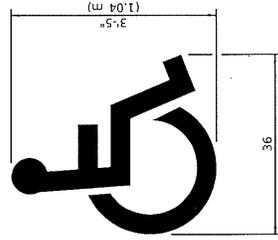
Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

The space between adjacent letters or numerals should be approximately 3 (75) for 6' (1.8 m) legend and 4 (100) for 8' (2.4 m) legend.

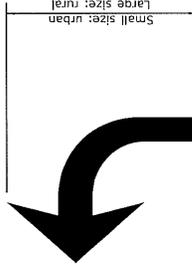
LETTER AND ARROW GRID SCALE

TYPICAL PAVEMENT MARKINGS
(Sheet 2 of 3)
STANDARD 780001-05

Illinois Department of Transportation
 PASSED January 1, 2015
 ISSUED 1-1-97
 APPROVED *[Signature]* January 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT



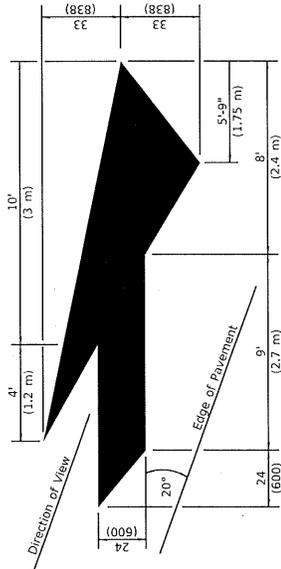
INTERNATIONAL SYMBOL OF ACCESSIBILITY



20' (6 m): urban
30' (15 m): rural
(Between arrow and word or side word or between words)

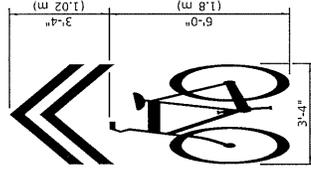


WORD AND ARROW LAYOUT

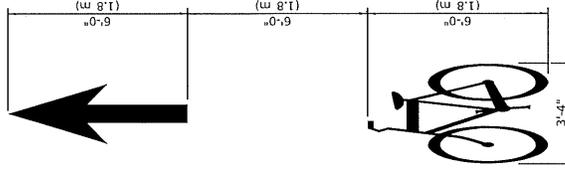


LANE-REDUCTION ARROW

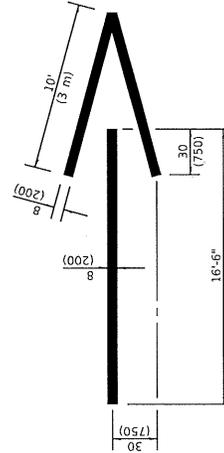
Right: lane-reduction arrow shown.
Use mirror image for left lane.



SHARED LANE SYMBOL



BIKE SYMBOL
(Arrow is optional.)

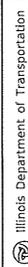


WRONG WAY ARROW

TYPICAL PAVEMENT MARKINGS

(Sheet 3 of 3)

STANDARD 780001-05

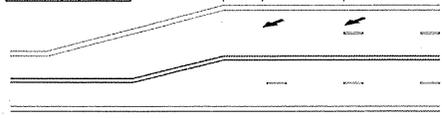


ISSUED 1-1-97

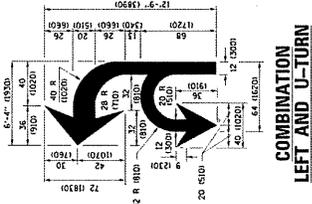
PASSED: JENNIFER L. _____ 2015
ENGINEER OF OPERATIONS

APPROVED: _____ 2015
ENGINEER OF DESIGN AND ENVIRONMENT

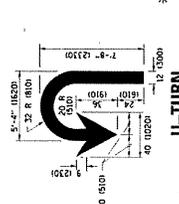
WIDTH	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55



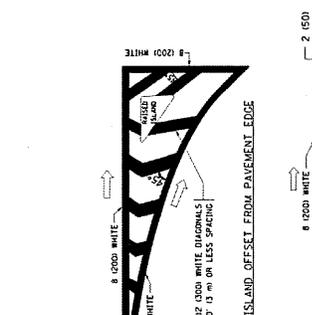
LANE REDUCTION TRANSITION
 * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER ON RIGID PAVED IN PLACE.



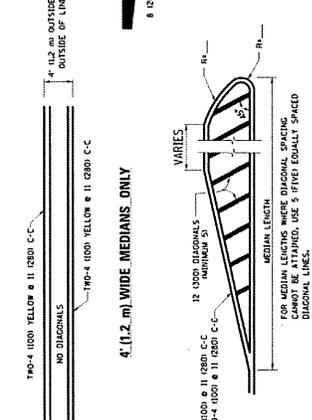
COMBINATION LEFT AND U-TURN



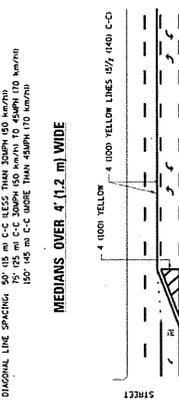
U-TURN



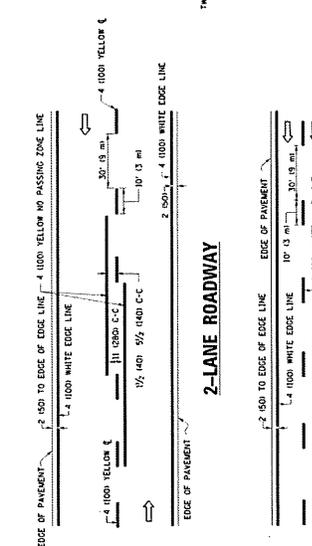
TYPICAL ISLAND MARKING



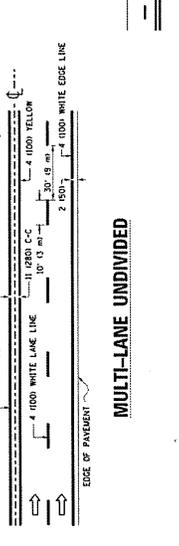
4' (1.2 m) WIDE MEDIANS ONLY



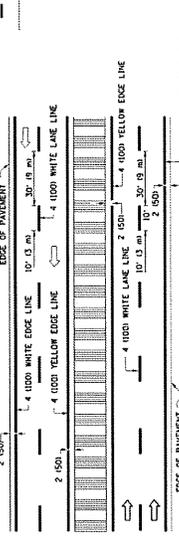
MEDIANS OVER 4' (1.2 m) WIDE



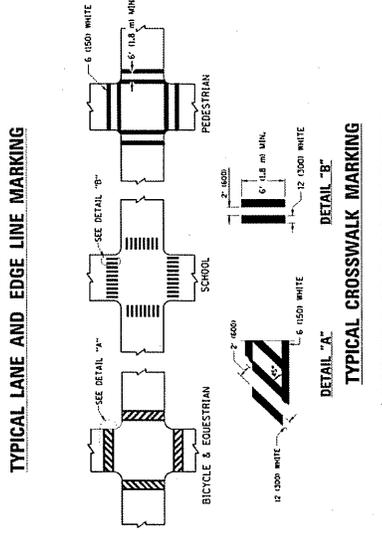
2-LANE ROADWAY



MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN



TYPICAL LANE AND EDGE LINE MARKING

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES.

TYPE OF MARKING	WIDTH OF LINE	COLOR	PATTERN	SPACING / REMARKS
GENERAL LINE ON 2 LANE PAVEMENT	4 1000	YELLOW	SKIP-DASH	10' 15 m LINE WITH 30' 9 m SPACE
GENERAL LINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 8 4 1000	YELLOW	SOLID	11 0200 C-C
LANE LINES FOR BOTH DIRECTIONS	4 1000	YELLOW	SOLID	5/8" 1400 C-C FROM SKIP-DASH CENTERLINE OUT TO SKIP-DASH CENTERLINE BETWEEN LANE LINES
LANE LINES	4 1000 5 1020 ON FREEWAYS	WHITE	SKIP-DASH	10' 15 m LINE WITH 30' 9 m SPACE
DOTTED LINES, CENTER, LANE OR TURN LANE MARKINGS	SAME AS LINE BEING EXTENDED	YELLOW/LEFT WHITE/RIGHT	SKIP-DASH	2' 6000 LINE WITH 6' 18 m SPACE
EDGE LINES	4 1000	YELLOW/LEFT WHITE/RIGHT	SOLID	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 1050 LINE, FULL SIZE LETTERS, 8" 2000	WHITE	SOLID	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 8 4 1000	YELLOW	SKIP-DASH	10' 15 m LINE WITH 30' 9 m SPACE FOR SKIP-DASH 5/8" 1400 C-C BETWEEN SOLID LANE LINES
CROSSWALK LINES, PEDESTRIAN & BICYCLE (FOR CROSSWALKS)	2 8 6 1050	WHITE	SOLID	NOT LESS THAN 6' 1.8 m SPACED 2' 6000 APART
STOP LINES	24 16000	WHITE	SOLID	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
PAINTED MEDIANS	2 8 4 1000 WITH 12 0500 DIAGONALS	YELLOW	SOLID	SEE TYPICAL CROSSWALK MARKING DETAILS. PAINTED 12 0500 DIAGONALS IN YELLOW. SEE TYPICAL CROSSWALK MARKING. SEE TYPICAL PAINTED MEDIAN MARKING.
EDGE MARKING AND CHANNELIZING LINES	24 16000 TRANVERSE DIAGONALS 2 8 4 1000 WITH 12 0500 DIAGONALS	WHITE	SOLID	DIAGONALS: 15' 4.5 m C-C LESS THAN 2000 1050 W/PHI 15' 4.5 m C-C OVER ASPHALT (TO W/PHI) 30' 9 m C-C OVER ASPHALT (TO W/PHI) 30' 9 m C-C OVER ASPHALT (TO W/PHI)
PAVEMENT CROSSING	24 16000	WHITE	SOLID	SEE STATE STANDARD TPO/001
SHOULDER DIAGONALS REQUIRED FOR SHOULDERS 2' 8"	12 1300 49°	WHITE - RIGHT YELLOW - LEFT	SOLID	DIAGONALS: 15' 4.5 m C-C LESS THAN 2000 1050 W/PHI 15' 4.5 m C-C OVER ASPHALT (TO W/PHI) 30' 9 m C-C OVER ASPHALT (TO W/PHI)
TURN ARROW	SEE DETAIL	WHITE	SOLID	16.3 5F
ISLAND COMBINATION LEFT AND U-TURN	SEE DETAIL	WHITE	SOLID	35.4 5F

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR CONSTRUCTION AND STATE STANDARD TPO/001. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FILE NAME: I-55/24-1122-001
 DRAWN: C. JACIUS 07-20-13
 CHECKED: C. JACIUS 12-20-15
 DATE: 03-19-20

DESIGNED BY: EBERS
 REVISION: C. JACIUS 08-08-09
 REVISION: C. JACIUS 07-20-13
 REVISION: C. JACIUS 12-20-15
 REVISION: C. JACIUS 04-12-16

DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

TOTAL SHEETS: 222
 COUNTY: ILLINOIS
 PROJECT NO.: 222 105
 CONTRACT NO.:



Local Agency Proposal Bid Bond

Route Various
County McHenry
Local Agency McHenry County
Section 19-00000-05-GM

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

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

(Name of Surety) By: (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