



# 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@mchenrycountyil.gov](mailto:MCDOTBidDocs@mchenrycountyil.gov) or Fax to: MCDOT at (815) 334-4989, Attn: MCDOT Bid Docs

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## 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-XXXXX-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-XXXXX-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@mchenrycountyil.gov](mailto:MCDOTBidDocs@mchenrycountyil.gov) 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.

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## ELECTRONIC PLANS & SPECIFICATIONS

**HOW TO OBTAIN ELECTRONIC PLANS & SPECIFICATIONS?:** Project plans and/or specifications may be downloaded from MCDOT's website at <https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/doing-business>. 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 (<https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/doing-business>) 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**



**Proposal Submitted By:**

Contractor's Name

Contractor's Address

City

State

Zip Code

STATE OF ILLINOIS

Local Public Agency

County

Section Number

Street Name/Road Name

Type of Funds

Material proposal  Deliver and Install Proposal  Plans

**For a County and Road District Project**

Submitted/Approved

Highway Commissioner Signature

Date

~~Submitted/Approved~~

County Engineer/Superintendent of Highways

Date

**For a Municipal Project**

Submitted/Approved/Passed

Signature

Date

Official Title

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

**Department of Transportation**

Released for bid based on limited review

Regional Engineer Signature

Date

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

Local Public Agency

County

Section Number

McHenry County Division of Transportation

McHenry

21-00000-05-GM

**NOTICE TO BIDDERS**

Sealed proposals for the project described below will be received at the office of McHenry County Division of Transportation

16111 Nelson Rd Woodstock, IL 60098 Name of Office  
until 10:00 AM on 04/08/21  
Address Time Date

1. Plans and proposal forms will be available in the office of

https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/doing-business

2.  Prequalification

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

- 3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Material/Deliver and Install Proposals.
- 4. A proposal guaranty in the proper amount, as specified in the BLRS Special Provision for Bidding Requirements and Conditions for Material/Deliver and Install Proposals, will be required. See the attached Special Provisions for specific instructions for proposal guaranty for this proposal packet.
- 5. The successful bidder at the time of execution of the contract will be required to deposit a contract bond of proposal guaranty as provided for in the special provisions. 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 21-00000-05-GM".

By Order of

Awarding Authority

McHenry County Board

County Engineer/Superintendent of Highways/  
Municipal Clerk

Joseph R. Korpalski, Jr., P.E.

Date

03/10/21

**Material Proposal or Deliver & Install Proposal**

To

Awarding Authority

McHenry County Board

Awarding Authority Address

2200 North Seminary Ave.

City

Woodstock

State

IL

Zip Code

60098

If this bid is accepted within 45 days from the 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 01/01/16 and the "Supplemental Specifications and Recurring Special Provisions", adopted 01/01/21, prepared by the Department of Transportation, shall govern insofar as they may be applied and insofar as they do not conflict with the special provision and supplemental specifications attached hereto.
- 2. It is understood that quantities listed are approximate only and that they may be increased or decrease as may be needed to properly complete the improvement within its present limits or extensions thereto, at the unit prices stated and that bids will be compared on the basis of 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 paces on the road designed by the awarding authority or its authorized representative.
- 4. The contractor and/or local public 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.

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- 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.
- 6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. The proposal guaranty as specified in the special provisions is attached.

If a bid bond is allowed or required, Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to: Glenda L. Miller Treasurer of McHenry County

The amount of the check is 5% bid bond (\_\_\_\_\_).

**Attach Cashier's Check or Certified Check Here**

In the event that one proposal guaranty check is intended to cover two or more bid proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual bid proposal. If the proposal guaranty check is placed in another bid proposal, state below where it may be found.

The proposal guaranty check will be found in the bid proposal for: Section Number \_\_\_\_\_).

Discounts will be allowed for payment as follows: \_\_\_\_\_ calendar days \_\_\_\_\_ calendar days

Discounts will not be considered in determining the low bidder

Bidder

By

Title

Address

City

State

Zip Code



# Apprenticeship and Training Program Certification



Local Public Agency	County	Street Name/Road Name	Section Number
McHenry County Div of Transportation	McHenry	Various	21-00000-05-GM

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

- For this contract proposal or for all bidding groups in this deliver and install proposal.
- For the following deliver and install bidding 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 bidder's 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:

1. Except as provided in paragraph 4 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.
2. The undersigned bidder further certifies, for work to be performed by subcontract, that each of its subcontractors 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.
3. 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.

4. Except for any work identified above, if any bidder or subcontractor 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 workforces 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 afterward 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	Signature	Date
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>	<div style="border: 1px solid black; height: 40px;"></div>
Title		
<div style="border: 1px solid black; height: 20px;"></div>		
Address	City	State    Zip Code
<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div>	<div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div>



Local Public Agency	County	Section Number
McHenry County Division of Transportation	McHenry	21-00000-05-GM

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	97
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	100
3	<input type="checkbox"/> EEO	101
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	111
5	<input type="checkbox"/> Required Provisions - State Contracts	116
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	122
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	123
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	124
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	125
10	<input type="checkbox"/> Construction Layout Stakes	128
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	131
12	<input type="checkbox"/> Subsealing of Concrete Pavements	133
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	137
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	139
15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	140
16	<input type="checkbox"/> Polymer Concrete	142
17	<input type="checkbox"/> PVC Pipeliner	144
18	<input type="checkbox"/> Bicycle Racks	145
19	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	147
20	<b>Reserved</b>	149
21	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	150
22	<input type="checkbox"/> English Substitution of Metric Bolts	151
23	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	152
24	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	153
25	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	161
26	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	177
27	<b>Reserved</b>	179
28	<input type="checkbox"/> Preventive Maintenance - Bituminous Surface Treatment (A-1)	180
29	<b>Reserved</b>	186
30	<b>Reserved</b>	187
31	<b>Reserved</b>	188
32	<input type="checkbox"/> Temporary Raised Pavement Markers	189
33	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	190
34	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	193
35	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	197
36	<input type="checkbox"/> Longitudinal Joint and Crack Patching	200
37	<input type="checkbox"/> Concrete Mix Design - Department Provided	202

McHenry County Division of Transportation

McHenry

21-00000-05-GM

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	<b>Reserved</b>	204
LRS 2	<input type="checkbox"/> Furnished Excavation	205
LRS 3	<input type="checkbox"/> Work Zone Traffic Control Surveillance	206
LRS 4	<input type="checkbox"/> Flaggers in Work Zones	207
LRS 5	<input type="checkbox"/> Contract Claims	208
LRS 6	<input type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	209
LRS 7	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	215
LRS 8	<b>Reserved</b>	221
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	222
LRS 10	<b>Reserved</b>	223
LRS 11	<input checked="" type="checkbox"/> Employment Practices	224
LRS 12	<input checked="" type="checkbox"/> Wages of Employees on Public Works	226
LRS 13	<input checked="" type="checkbox"/> Selection of Labor	228
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	229
LRS 15	<input type="checkbox"/> Partial Payments	232
LRS 16	<input type="checkbox"/> Protests on Local Lettings	233
LRS 17	<input type="checkbox"/> Substance Abuse Prevention Program	234
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	235



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.

## CHECK SHEET #LRS7

- (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**

<u>Amount Bid</u>		<u>Proposal Guaranty</u>
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.”

# McHenry County Prevailing Wage Rates posted on 12/1/2020

Trade Title	Rg	Type	C	Base	Foreman	Overtime					Pension	Vac	Trng	Other Ins
						M-F	Sa	Su	Hol	H/W				
ASBESTOS ABT-GEN	AII	ALL		44.40	45.40	1.5	1.5	2.0	2.0	14.26	16.05	0.00	0.90	
ASBESTOS ABT-MEC	AII	BLD		38.44	41.51	1.5	1.5	2.0	2.0	14.07	12.51	0.00	0.77	
BOILERMAKER	AII	BLD		51.56	56.20	2.0	2.0	2.0	2.0	6.97	21.58	0.00	1.20	
BRICK MASON	AII	BLD		47.56	52.32	1.5	1.5	2.0	2.0	11.20	20.51	0.00	0.97	
CARPENTER	AII	ALL		49.76	51.76	1.5	1.5	2.0	2.0	11.79	23.35	0.00	0.73	
CEMENT MASON	AII	ALL		48.20	50.20	2.0	1.5	2.0	2.0	10.90	23.86	0.00	0.50	
CERAMIC TILE FINISHER	AII	BLD		41.80	41.80	1.5	1.5	2.0	2.0	11.25	13.41	0.00	0.88	
COMMUNICATION TECHNICIAN	AII	BLD		42.41	44.81	1.5	1.5	2.0	2.0	13.79	15.42	0.00	0.85	
ELECTRIC PWR EQMT OP	AII	ALL		44.61	60.87	1.5	1.5	2.0	2.0	6.50	12.49	0.00	1.01	1.34
ELECTRIC PWR GRNDMAN	AII	ALL		34.27	60.87	1.5	1.5	2.0	2.0	6.50	9.60	0.00	0.77	1.03
ELECTRIC PWR LINEMAN	AII	ALL		53.63	60.87	1.5	1.5	2.0	2.0	6.50	15.02	0.00	1.21	1.61
ELECTRIC PWR TRK DRV	AII	ALL		35.52	60.87	1.5	1.5	2.0	2.0	6.50	9.95	0.00	0.80	1.07
ELECTRICIAN	AII	ALL		51.15	55.55	1.5	1.5	2.0	2.0	15.66	16.98	0.00	1.02	
ELEVATOR CONSTRUCTOR	AII	BLD		58.47	65.78	2.0	2.0	2.0	2.0	15.73	18.41	4.68	0.63	
FENCE ERECTOR	E	ALL		44.42	46.42	1.5	1.5	2.0	2.0	13.68	15.40	0.00	0.65	
FENCE ERECTOR	S	ALL		47.99	51.83	2.0	2.0	2.0	2.0	13.06	24.15	0.00	1.03	
GLAZIER	AII	BLD		46.35	47.85	1.5	2.0	2.0	2.0	14.79	22.67	0.00	1.26	
HEAT/FROST INSULATOR	AII	BLD		51.25	54.33	1.5	1.5	2.0	2.0	14.07	14.26	0.00	0.77	
IRON WORKER	E	ALL		52.51	54.51	2.0	2.0	2.0	2.0	15.15	24.34	0.00	0.44	
IRON WORKER	S	ALL		47.99	51.83	2.0	2.0	2.0	2.0	13.06	24.15	0.00	1.03	
IRON WORKER	W	ALL		40.85	45.75	2.0	2.0	2.0	2.0	12.66	28.22	0.00	1.55	
LABORER	AII	ALL		44.40	45.15	1.5	1.5	2.0	2.0	14.26	16.05	0.00	0.90	
LATHER	AII	ALL		49.76	51.76	1.5	1.5	2.0	2.0	11.79	23.35	0.00	0.73	
MACHINIST	AII	BLD		49.68	52.18	1.5	1.5	2.0	2.0	7.93	8.95	1.85	1.47	
MARBLE FINISHER	AII	ALL		35.73	49.05	1.5	1.5	2.0	2.0	11.20	18.71	0.00	0.87	
MARBLE MASON	AII	BLD		46.71	51.38	1.5	1.5	2.0	2.0	11.20	19.98	0.00	0.95	
MATERIAL TESTER I	AII	ALL		34.40		1.5	1.5	2.0	2.0	14.26	16.05	0.00	0.90	
MATERIALS TESTER II	AII	ALL		39.40		1.5	1.5	2.0	2.0	14.26	16.05	0.00	0.90	
MILLWRIGHT	AII	ALL		49.76	51.76	1.5	1.5	2.0	2.0	11.79	23.35	0.00	0.73	
OPERATING ENGINEER	AII	BLD	1	52.10	56.10	2.0	2.0	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	AII	BLD	2	50.80	56.10	2.0	2.0	2.0	2.0	20.90	17.85	2.00	2.15	

OPERATING ENGINEER	All	BLD	3	48.25	56.10	2.0	2.0	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	BLD	4	46.50	56.10	2.0	2.0	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	BLD	5	55.85	56.10	2.0	2.0	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	BLD	6	53.10	56.10	2.0	2.0	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	BLD	7	55.10	56.10	2.0	2.0	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	FLT		40.00	40.00	1.5	1.5	2.0	2.0	20.50	16.85	2.00	1.65	
OPERATING ENGINEER	All	HWY	1	50.30	54.30	1.5	1.5	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	HWY	2	49.75	54.30	1.5	1.5	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	HWY	3	47.70	54.30	1.5	1.5	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	HWY	4	46.30	54.30	1.5	1.5	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	HWY	5	45.10	54.30	1.5	1.5	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	HWY	6	53.30	54.30	1.5	1.5	2.0	2.0	20.90	17.85	2.00	2.15	
OPERATING ENGINEER	All	HWY	7	51.30	54.30	1.5	1.5	2.0	2.0	20.90	17.85	2.00	2.15	
ORNAMENTAL IRON WORKER	E	ALL		51.63	54.13	2.0	2.0	2.0	2.0	14.23	22.25	0.00	1.25	
ORNAMENTAL IRON WORKER	S	ALL		47.99	51.83	2.0	2.0	2.0	2.0	13.06	24.15	0.00	1.03	
PAINTER	All	ALL		48.30	50.30	1.5	1.5	1.5	2.0	18.23	3.65	0.00	1.45	
PAINTER - SIGNS	All	BLD		39.84	44.74	1.5	1.5	2.0	2.0	2.73	3.39	0.00	0.00	
PILEDRIVER	All	ALL		49.76	51.76	1.5	1.5	2.0	2.0	11.79	23.35	0.00	0.73	
PIPEFITTER	All	BLD		50.75	53.75	1.5	1.5	2.0	2.0	10.85	20.85	0.00	2.92	
PLASTERER	All	BLD		45.00	47.70	1.5	1.5	2.0	2.0	15.75	18.14	0.00	1.25	
PLUMBER	All	BLD		52.00	55.10	1.5	1.5	2.0	2.0	16.22	15.60	0.00	1.40	
ROOFER	All	BLD		45.75	49.75	1.5	1.5	2.0	2.0	11.23	13.61	0.00	0.91	
SHEETMETAL WORKER	All	BLD		49.07	51.52	1.5	1.5	2.0	2.0	10.85	17.51	0.00	1.14	2.32
SIGN HANGER	All	BLD		26.07	27.57	1.5	1.5	2.0	2.0	3.80	3.55	0.00	0.00	
SPRINKLER FITTER	All	BLD		50.95	53.45	1.5	1.5	2.0	2.0	13.50	16.80	0.00	0.75	
STEEL ERECTOR	E	ALL		52.51	54.51	2.0	2.0	2.0	2.0	15.15	24.34	0.00	0.44	
STEEL ERECTOR	S	ALL		47.99	51.83	2.0	2.0	2.0	2.0	13.06	24.15	0.00	1.03	
STONE MASON	All	BLD		47.56	52.32	1.5	1.5	2.0	2.0	11.20	20.51	0.00	0.97	
TERRAZZO FINISHER	All	BLD		43.54	43.54	1.5	1.5	2.0	2.0	11.25	15.61	0.00	0.90	
TERRAZZO MASON	All	BLD		47.38	50.88	1.5	1.5	2.0	2.0	11.25	17.07	0.00	0.94	
TILE MASON	All	BLD		48.75	52.75	1.5	1.5	2.0	2.0	11.25	16.90	0.00	0.95	
TRAFFIC SAFETY WORKER	All	HWY		36.75	38.35	1.5	1.5	2.0	2.0	7.95	8.20	0.00	0.75	
TRUCK DRIVER	All	ALL	1	40.29	40.84	1.5	1.5	2.0	2.0	11.00	10.25	0.00	0.15	
TRUCK DRIVER	All	ALL	2	40.44	40.84	1.5	1.5	2.0	2.0	11.00	10.25	0.00	0.15	
TRUCK DRIVER	All	ALL	3	40.64	40.84	1.5	1.5	2.0	2.0	11.00	10.25	0.00	0.15	
TRUCK DRIVER	All	ALL	4	40.84	40.84	1.5	1.5	2.0	2.0	11.00	10.25	0.00	0.15	



TUCKPOINTER	All	BLD	47.25	48.25	1.5	1.5	2.0	2.0	8.59	19.48	0.00	0.94
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**Legend**

**Rg** Region

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

**C** Class

**Base** Base Wage Rate

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

**OT Sa** Overtime pay required for every hour worked on Saturdays

**OT Su** Overtime pay required for every hour worked on Sundays

**OT Hol** Overtime pay required for every hour worked on Holidays

**H/W** Health/Welfare benefit

**Vac** Vacation

**Trng** Training

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

Explanations 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 Screed; 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; Belt 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 Screed; 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 Wet 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, horses 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 Turntrailers 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 Turntrailers 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	21-00000-05-GM

The following Special Provision supplement the "Standard Specifications for Road and Bridge Construction", adopted

January 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 of 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, 2021.**

### 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 1 and Group 2 and Group 3.

### 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 January 1, 2021

- 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 15<sup>th</sup>, 2021.

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, contain the total quantities for the McHenry County Division of Transportation and all Local Agencies total quantities for the following Local Agencies: Village of Algonquin, Village of Cary, and the City of McHenry. Group #2: Hot Spray Thermoplastic, contain the total quantities for MCDOT and City of McHenry. Group #3: Urethane, 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 Cities) will award and administer their own contracts for this project.

## **TRAFFIC CONTROL PLAN**

**All traffic control and traffic control devices shall be considered incidental and will not be measured for payment.**

The Engineer shall be responsible for the administration of the Traffic Control Plan.

Two-way movement on all roads and access to abutting properties shall be maintained at all times.

Special attention is called to Article 107.09 and the applicable parts of Section 701, 702 and 703 of the *Standard Specifications for Road and Bridge Construction* and the following *Highway Standards, Supplemental Specifications and Recurring Special Provisions* or other Special Provisions relating to traffic control.

The Contractor shall be required to use the latest version of the highway standards listed below as traffic conditions and working conditions warrant.

Highway Standards:           701201-05, 701301-04, 701306-04, 701311-03, 701421-08,  
  701426-09, 701427-05, 701901-08, 780001-05

Bureau of Local Roads and Streets Special Provisions:       BLR 18-6

Other Special Provisions:   Flaggers Vests, Personal Protective Equipment, Work Zone Traffic Control Devices, Construction Zone Traffic Control.

The Contractor shall obtain, erect, maintain, and remove any and all signs, barricades, flaggers, and other traffic control devices as may be necessary for the purpose of regulating, warning, and guiding traffic. Placement and maintenance of all traffic control devices shall be as directed by the Engineer. The Engineer shall be the sole judge as to the acceptability of placement and maintenance of the traffic control devices.

In addition to proper traffic control signs at each end of the project, additional signs shall be required at major intersections along the length of the project. When any lane is blocked for slow moving operations for installation of highway paint, flaggers shall be required at all times.

At the preconstruction meeting, the Contractor shall furnish the name of the individual in his direct employ who is to be responsible for the installation and maintenance of the traffic control for this project. If the actual installation and maintenance are to be 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, GROUP 1**

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.

### **CONTROL 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 – 45 MIL HOT SPRAY THERMOPLASTIC PAVEMENT MARKINGS, GROUP 2**

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 high grade pure (minimum 93 percent) titanium dioxide (TiO<sub>2</sub>). 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 (SiO<sub>2</sub>).
- 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  $70 \pm 3$  °F ( $21 \pm 2$  °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  $375 \pm 3$  °F ( $190.6 \pm 2$  °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  $375 \pm 3$  °F ( $190.6 \pm 2$  °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  $75 \pm 2$  °F ( $23.9 \pm 1$  °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  $375 \pm 3$  °F ( $190.6 \pm 2$  °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  $75 \pm 2$  °F ( $23.9 \pm 1$  °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.

**SPECIAL PROVISIONS - URETHANE PAVEMENT MARKINGS, GROUP 3**

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 1/4 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:

<b>Material</b>	<b>Color</b>	<b>Retroreflectivity</b> (millicandela/m <sup>2</sup> /lux)
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.

### 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)	YIELD (22.3 sqft)
Algonquin	21,633	700	49,800	1,500	0	2,600	500				
McHenry	0	604	1,717	6,564	0	3,452	1,419				
Cary	0	1,698	38,568	6,477	0	2,048	1,060	39	49	2	
MCDOT	39,211	6,127	55,197	9,869	2,030	5,232	1,469	160	158	4	4
<b>Total</b>	<b>60,844</b>	<b>9,129</b>	<b>145,282</b>	<b>24,410</b>	<b>2,030</b>	<b>13,332</b>	<b>4,448</b>	<b>199</b>	<b>207</b>	<b>6</b>	<b>4</b>

## 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)	YIELD (22.3 sqft)
Randall Road, Harmish Dr to County Line Rd	6,845.5	728.0	8,381	3,889	510	680	181	20	20		
Marengo Road @ Harmony Road/Main Street	2,613.6	218.4	5,942	503		55	55	6	6		
Union Road @ W Union Road	686.3	122.4		395			122			2	
Charles Road @ Raffel Road	2,354.2	89.2	5,000	200		500					4
Keystone Road, IL Route 173 to Wisconsin State Line	6,658.1	0.0	19,676	52		80					
Ridgefield Road @ US Route 14 (east intersection)	1,180.1	36.4	2,936	138		97		1	1		
Ridgefield Road @ US Route 14 (west intersection)	1,262.6	78.0	3,062	200		65		3	1		
Algonquin Road, IL Route 47 to Ruth Rd (Various Locations)	894.6	728.0	200	200				20	20		
Algonquin Road @ Haligus Road	1,011.6	364.0	200	210		250	113	10	10		
Algonquin Road @ Braemar Parkway	655.5	72.8	100	140	125	364	16	2	2		
Algonquin Road @ Allendale Drive	1,983.0	728.0	200	540	275	675	30	20	20		
Algonquin Road @ Lakewood Road	2,248.8	946.4	200	238	400	428	211	26	26		
Algonquin Road @ Square Barn Road	1,352.9	327.6	200	344	130	470	115	9	9		
Algonquin Road @ Frank Road	1,331.2	509.6	400	100	290	119	163	14	14		
Algonquin Road @ Harvest Gate Road	1,888.8	436.8	200	570	200	719	124	12	12		
Oak Grove Road, IL Route 173 to Rammer Rd	758.8	122.4		100		200	132			2	
Miller Road @ River Road	559.3	72.8	500	500			35	2	2		
Randall Road, McHenry Ave to Alexandra Dr	2,529.6	400.4	4,500	600	100	180	42	11	11		
Rakow Road, Pyott Rd to Pingree Rd	516.5	0.0	500	500			50				
Johnsburg Rd @ Riveside Dr	654.4	36.4	1,000	150		150	30	1	1		
Pyott Road, Virginia Rd to Rakow Rd	1,225.2	109.2	2,000	300		200	50	3	3		
<b>Total</b>	<b>39,211</b>	<b>6,127</b>	<b>55,197</b>	<b>9,869</b>	<b>2,030</b>	<b>5,232</b>	<b>1,469</b>	<b>160</b>	<b>158</b>	<b>4</b>	<b>4</b>

### 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-R's and X)	
Various Village Roads	21,633.4	700.0	49,800	1,500		2,600	500				
<b>Total</b>	<b>21,633.4</b>	<b>700.0</b>	<b>49,800</b>	<b>1,500</b>	<b>0</b>	<b>2,600</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## 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 City Roads		604.0	1,717	6,564		3,452	1,419					
<b>Total</b>	<b>0.0</b>	<b>604.0</b>	<b>1,717</b>	<b>6,564</b>	<b>0</b>	<b>3,452</b>	<b>1,419</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Thermoplastic Pavement Marking Schedule**  
Village of Cary, IL

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)					
ELDEN DR															
at Ann St							0	26							
at Lloyd St							108	52							
at Margaret Ter							108	52							
at W. James Way							60	13							
at Oriole TH							60	13							
at Alma Ter							210	52							
at Wagner Dr							54	13							
FIRST ST															
at Lyod St							54	13							
at W. Margaret Ter							48	13							
at E. Margaret Ter							60	13							
at W. James Way							54	13							
Across First St							66	0							
at E. James Way							54	13							
School Crossing							66								
at Wagner Dr							42	13							
at Franke Ave							54	13							
at Burton Ave							66	13							
at Park Ave							90	18							
Three Oaks to Rt 14		130.0	7,642	375			0	21			4	3			
SANDRA LN															
at Margaret Ter								52							
at W. James Way								26							
at Alma Ter								13							
THREE OAKS RD															
Silver Lake Rd to 660' East		145.6	1,930	660							4	4			
at Silver Lake Rd															
Silver Lake rd to Feinberg dr		192.4	3,318	700			618	150			4	7			
Feinberg Dr to Jewel		104.0	1,679	242			72	15			2	4			
Jewel Entrance							72	15							
Jewel to West Lake Dr		161.2	2,023	435							4	5			
West Lake Dr to Rt 14		206.8	710	609				134			4	4			1
Rt 14 to Kaper Dr		170.4	9,269	872				136			3	3			1
Kaper to Geortown Dr		208.0	3,026	1,244			32	50			4	8			
Feinberg Dr		88.4	1,231	255				30			2	3			
CRYSTAL LAKE RD															
Limits to fire house		291.2	7,740	1,065							8	8			
Cimarron Dr at Hampton St								90							
								0							
								0							
<b>Total</b>	<b>0.0</b>	<b>1,698.0</b>	<b>38,568</b>	<b>6,477</b>	<b>0</b>	<b>2,048</b>	<b>1,060</b>	<b>39</b>	<b>49</b>	<b>2</b>					



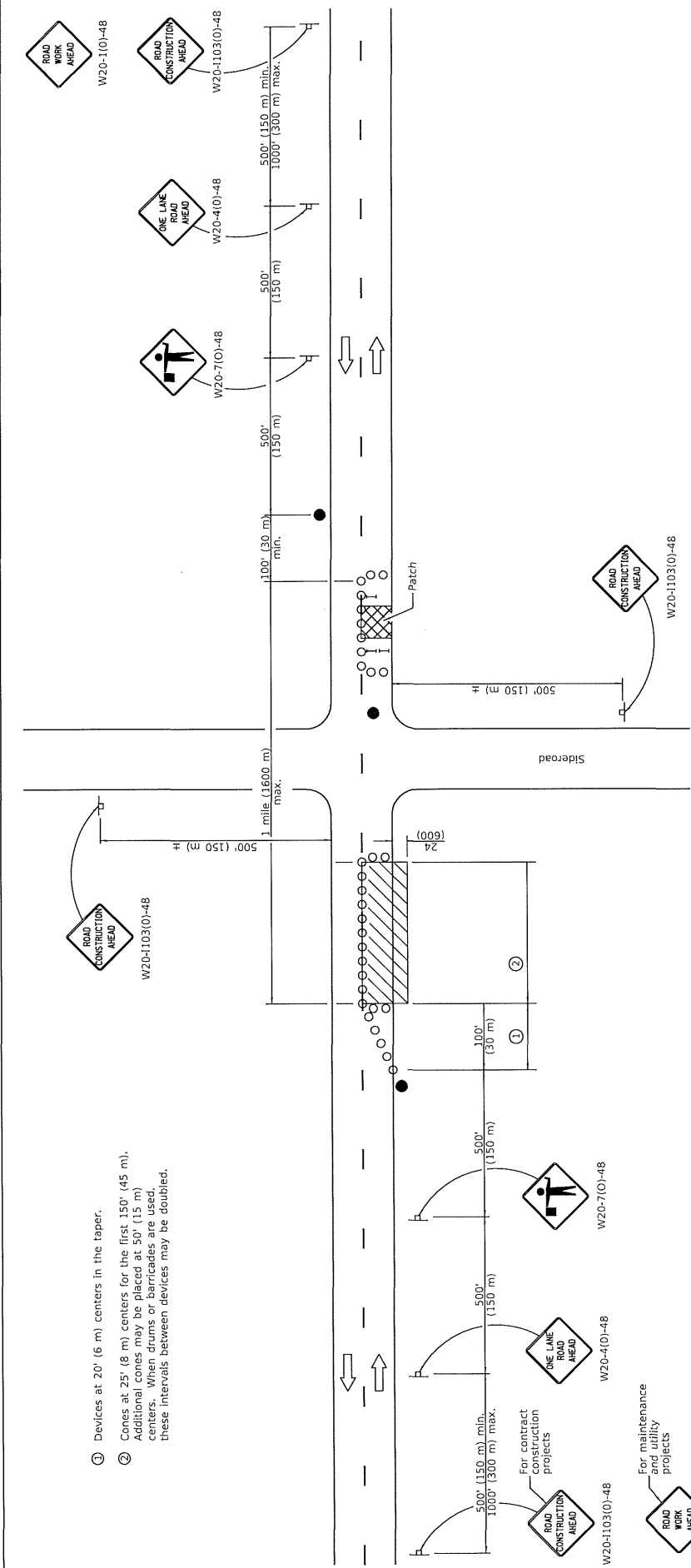
## Spray Thermoplastic Pavement Marking Schedule

### 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		
Altenberg Road, IL Rte 173 to Alden Rd			59,869	116							
Airport Road, Flat Iron Rd to US Route 14			18,698	2,642							
McGuire Road, Alden Rd to US Route 14			50,000	1,905							
Chapel Hill Road, River Rd to IL Route 120			28,600	546							
River Road, Miller Rd to Chapel Hill Rd			3,459	150							
<b>Total</b>			<b>160,626</b>	<b>5,359</b>							

## Modified Urethane Pavement Marking Schedule McHenry County Division of Transportation

Location	Removal (sqft)	L&S (sqft)	Performed Plastic Pvt. Marking-Line (lin ft)				L&S Summary		RR Crossing (2 R's and X)		
			4"	6"	8"	12"	24"	Only		Arrow	
Ridgefield Road @ US Route 14 (east intersection)		36.4	448	112				28	1	1	
Ridgefield Road @ US Route 14 (west intersection)		31.2	124	157		210		28		2	
Algonquin Road @ IL Route 47				220				50			
Virginia Road @ IL Route 31			40	119				28			
Miller Road/Bull Valley Road @ IL Route 31			20	760				117			
Algonquin Road @ IL Route 31 (West Leg)		109.2	782	360	180	78		52	3	3	
<b>Total</b>		<b>176.8</b>	<b>1,414.0</b>	<b>1,728.0</b>	<b>180.0</b>	<b>288.0</b>		<b>303.0</b>			



- 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.

For contract construction projects

For maintenance and utility projects

**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

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

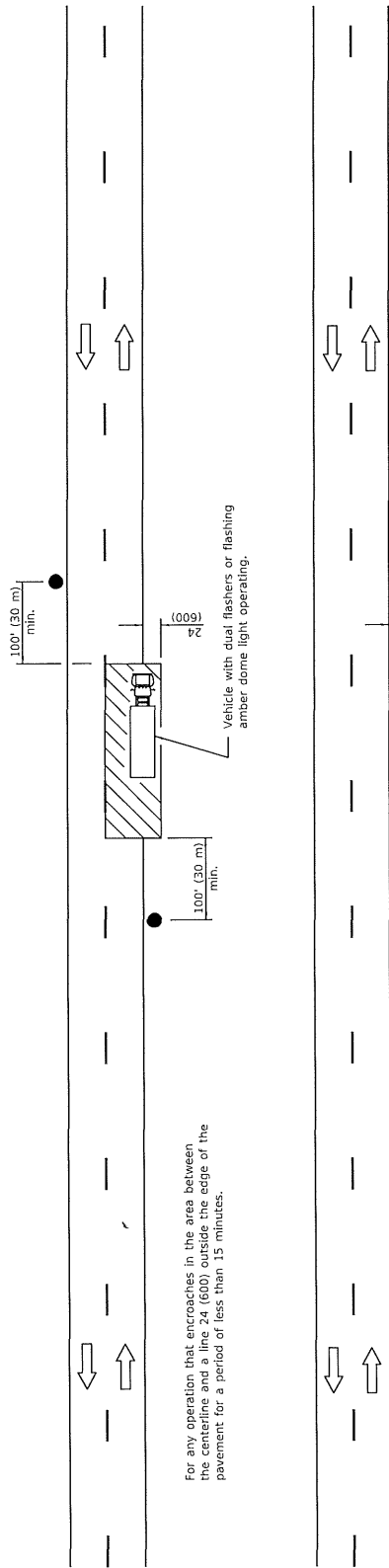
APPROVED January 1, 2019

ENGINEER OF SAFETY PROGRAM AND ENGINEERING

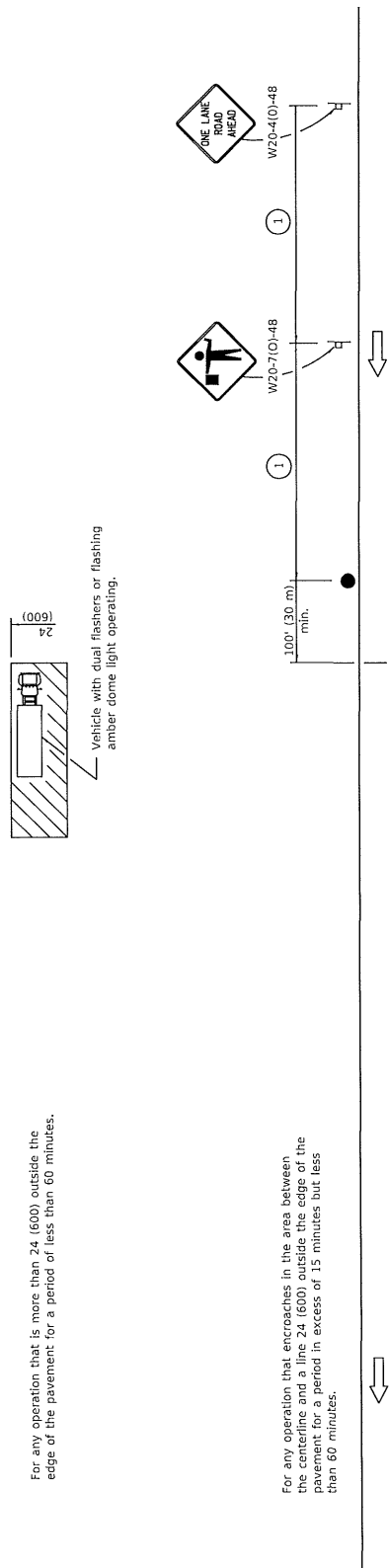
ISSUED 1-1-97

APPROVED January 1, 2019

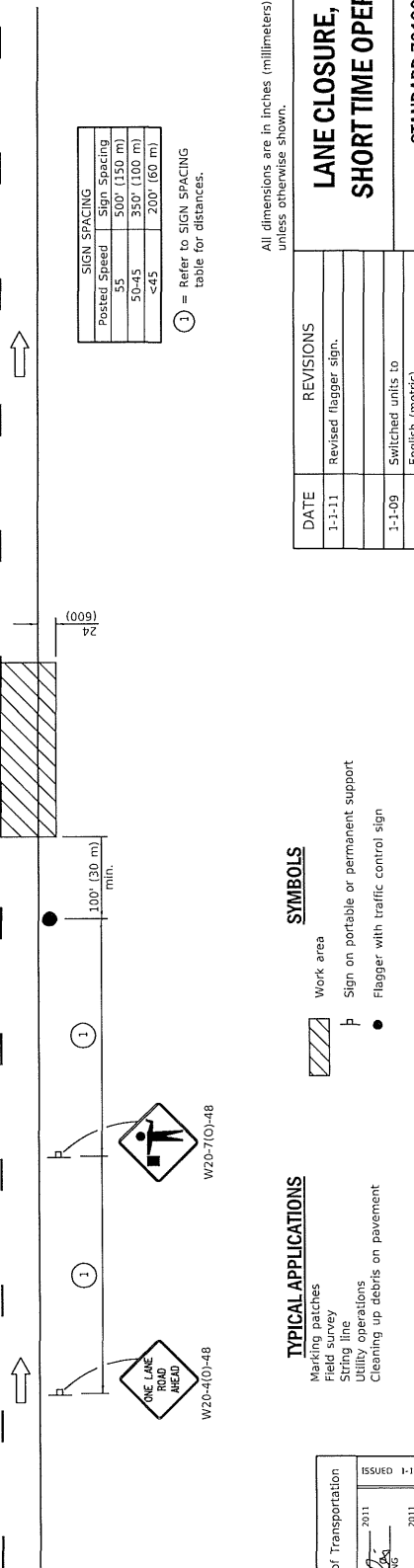
ENGINEER OF DESIGN AND ENVIRONMENT



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.



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 in excess of 15 minutes but less than 60 minutes.

SIGN SPACING	
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.

**TYPICAL APPLICATIONS**

- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

**SYMBOLS**

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

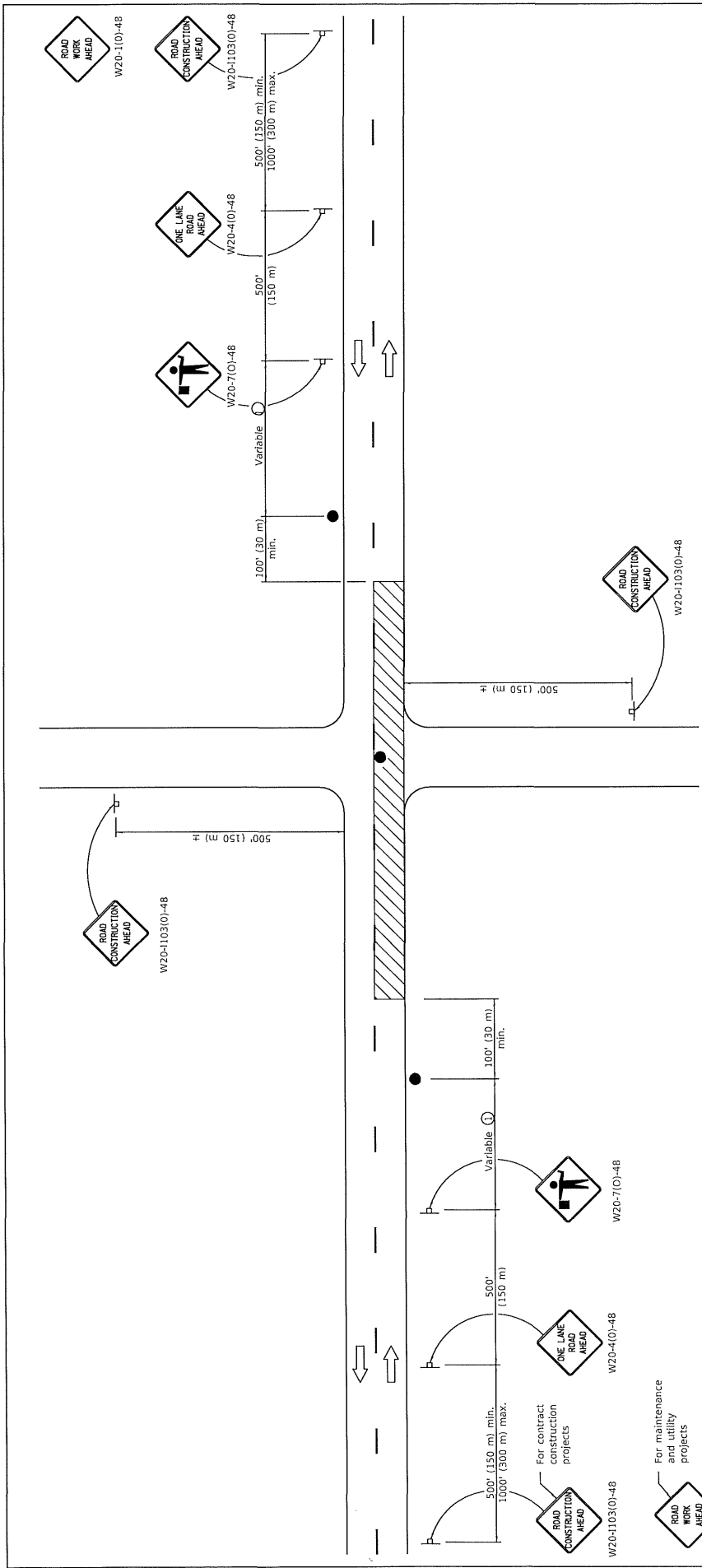
**LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS**

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

STANDARD 701301-04

Illinois Department of Transportation  
 PASSED January 11, 2011  
 ENGINEER OF SAFETY ENGINEERING  
 APPROVED January 11, 2011  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



**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.

**TYPICAL APPLICATIONS**

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

**SYMBOLS**

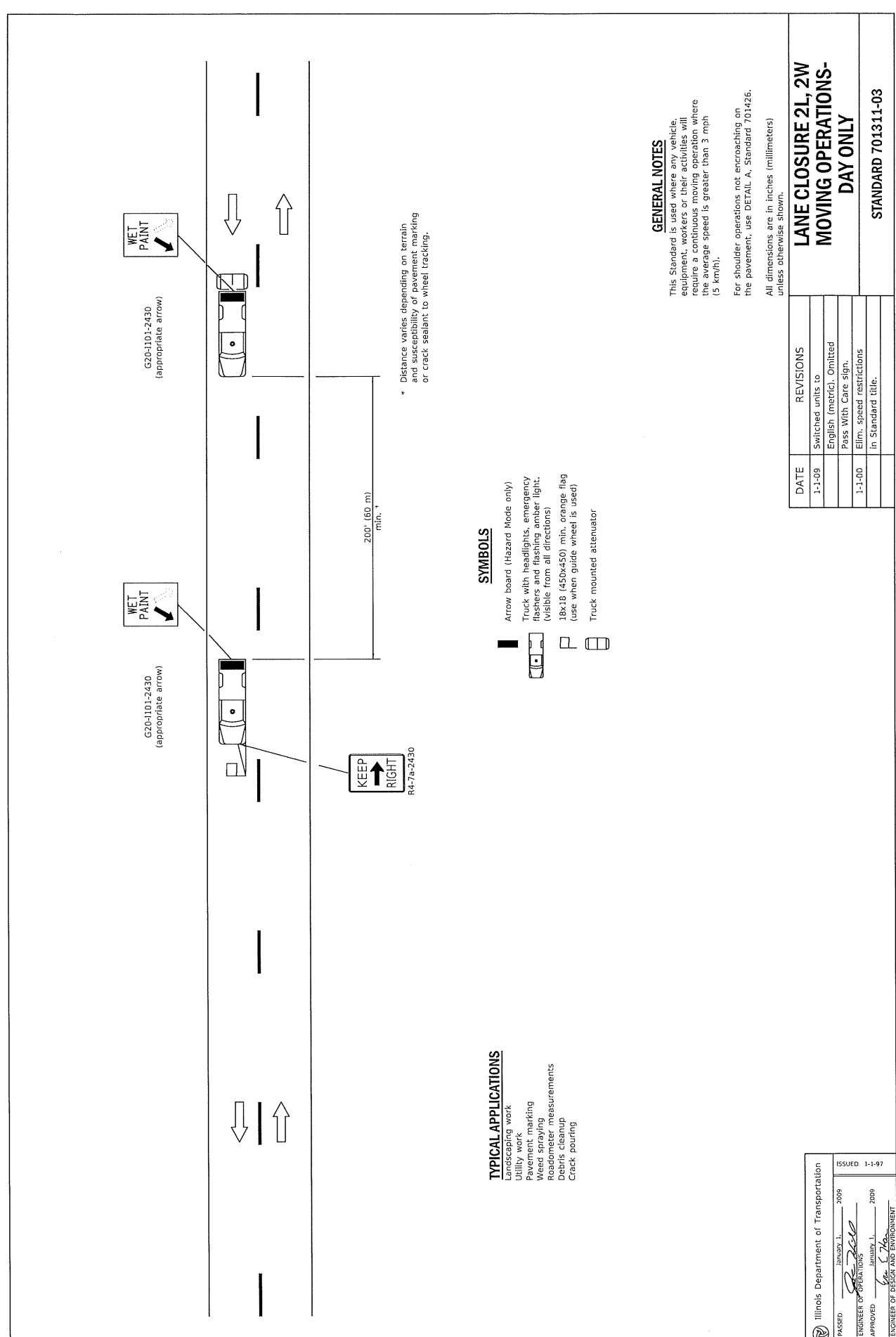
- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

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

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

STANDARD 701306-04

Illinois Department of Transportation  
 PASSED January 1, 2018  
 ENGINEER OF SAFETY PROC. AND ENGINEERING  
 APPROVED January 1, 2018  
 ENGINEER OF DESIGN AND ENVIRONMENT



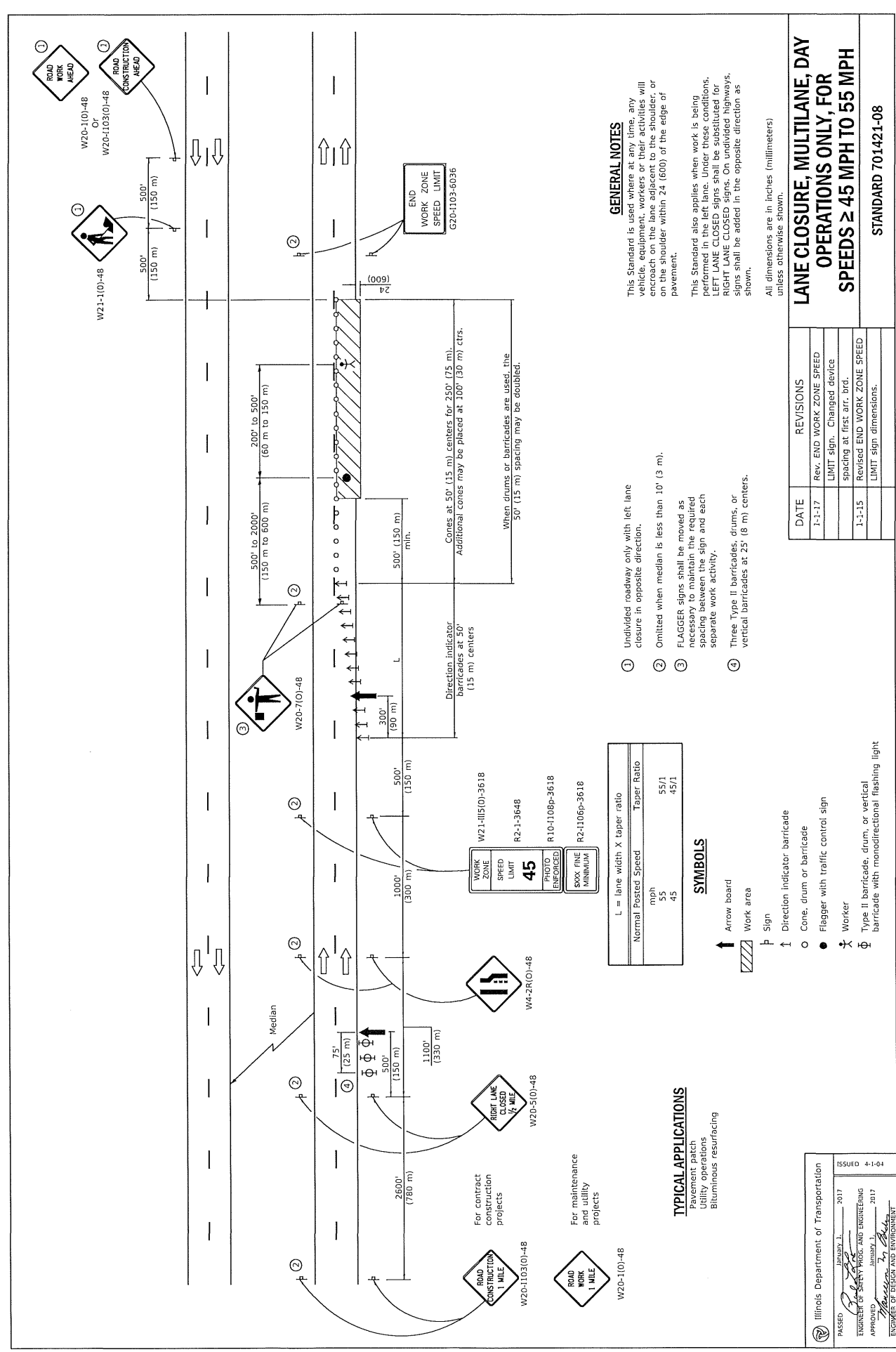
**TYPICAL APPLICATIONS**  
 Landscaping work  
 Utility work  
 Pavement marking  
 Weed spraying  
 Roadometer measurements  
 Debris Cleanup  
 Crack pouring

**SYMBOLS**  
 Arrow board (Hazard Mode only)  
 Truck with headlights, emergency flashers and flashing amber light, (visible from all directions)  
 18x18 (450x450) min. orange flag (use when guide wheel is used)  
 Truck mounted attenuator

**GENERAL NOTES**  
 This Standard is used where any vehicle equipment, workers or their activities will require a continuous moving operation where the average speed is greater than 3 mph (5 km/h).  
 For shoulder operations not encroaching on the pavement, use DETAIL A, Standard 701426.  
 All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation PASSED JAMES L. [Signature] 2009 ENGINEER OF OPERATIONS APPROVED [Signature] 2009 ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED	1-1-97
	LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY STANDARD 701311-03	

DATE	REVISIONS
1-1-09	Switched units to English (metric). Omitted Pass With Care sign.
1-1-00	Elim. speed restrictions in Standard title.



**GENERAL NOTES**

This Standard is used where at any time, any vehicle, equipment, workers or their activities will encroach on the lane adjacent to the shoulder, or on the shoulder within 24' (600) of the edge of pavement.

This Standard also applies when work is being performed in the left lane. Under those conditions, LEFT LANE CLOSED signs shall be substituted for RIGHT LANE CLOSED signs. On undivided highways, signs shall be added in the opposite direction as shown.

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

- ① Undivided roadway only with left lane closure in opposite direction.
- ② Omitted when median is less than 10' (3 m).
- ③ FLAGGER signs shall be moved as necessary to maintain the required spacing between the sign and each separate work activity.
- ④ Three Type II barricades, drums, or vertical barricades at 25' (8 m) centers.

L = lane width X taper ratio	
Normal Posted Speed	Taper Ratio
high	55/1
25	45/1
low	

**SYMBOLS**

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ↑ Direction indicator barricade
- Cone, drum or barricade
- Flagger with traffic control sign
- ⋈ Worker
- ⊕ Type II barricade, drum or vertical barricade with monofunctional flashing light

**TYPICAL APPLICATIONS**

- Pavement patch
- Utility operations
- Bituminous resurfacing

WORK ZONE SPEED LIMIT	45
PHOTO ENFORCED	
SXXX FINE MINIMUM	

**LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH**

DATE	REVISIONS
1-1-17	REV. END WORK ZONE SPEED LIMIT sign. Changed device spacing at first arr. brd.
1-1-15	REVISED END WORK ZONE SPEED LIMIT sign dimensions.

STANDARD 701421-08

Illinois Department of Transportation

PASSED January 1, 2017

ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2017

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 4-1-04

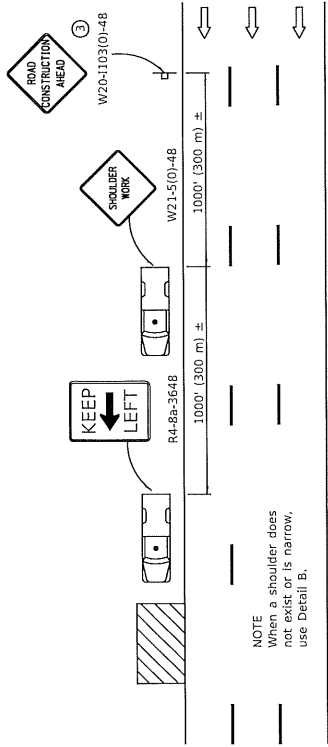
For contract construction projects

For maintenance and utility projects

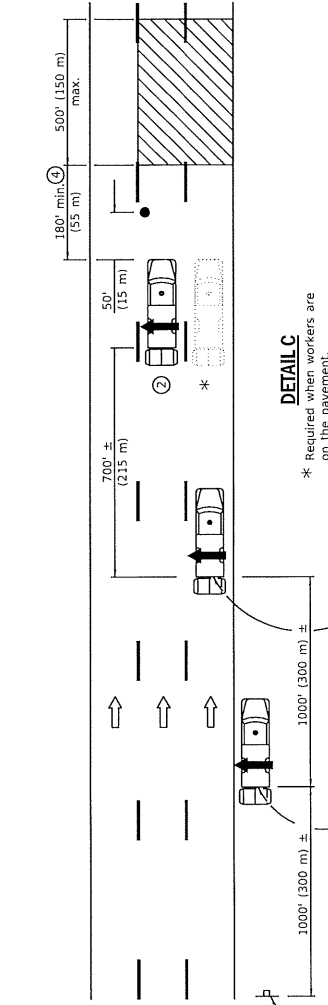
W20-1103(O)-48

W20-1103(O)-48

W20-1103(O)-48



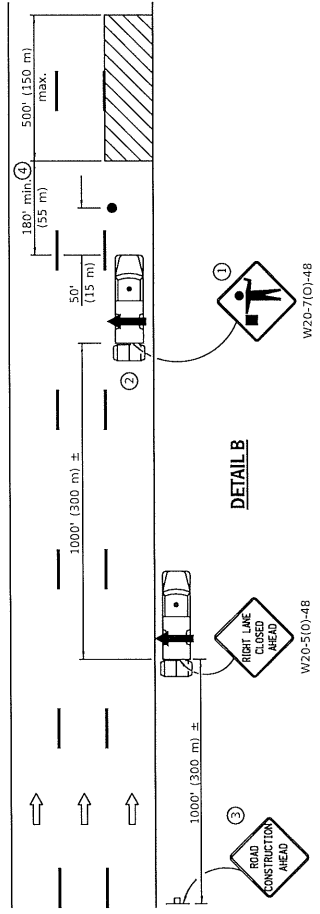
**DETAIL A**



**DETAIL C**

**TYPICAL APPLICATIONS**

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



**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. The distance between the work and the lead truck may vary according to terrain or paint/crack sealing drying time.

**SYMBOLS**

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

**GENERAL NOTES**

This Standard is used where any vehicle or equipment is on the roadway. It requires: 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.

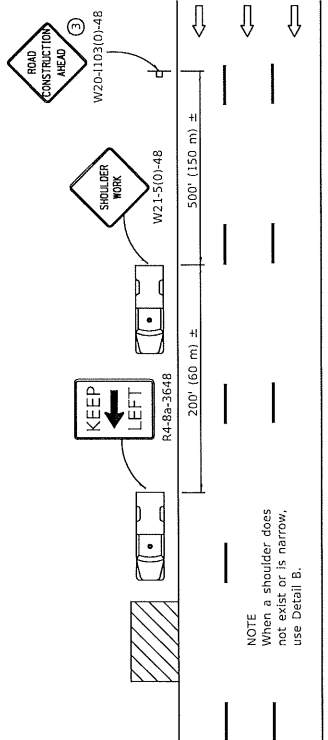
PASSED ILLINOIS DEPARTMENT OF TRANSPORTATION JENNIFER L. 2017 ENGINEER OF SAFETY PROG. AND ENGINEERING APPROVED JENNIFER L. 2017 ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED 1-1-97
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DATE	REVISIONS
1-1-17	Revised 'NOTE' on DETAIL A to use DETAIL B in lieu 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**

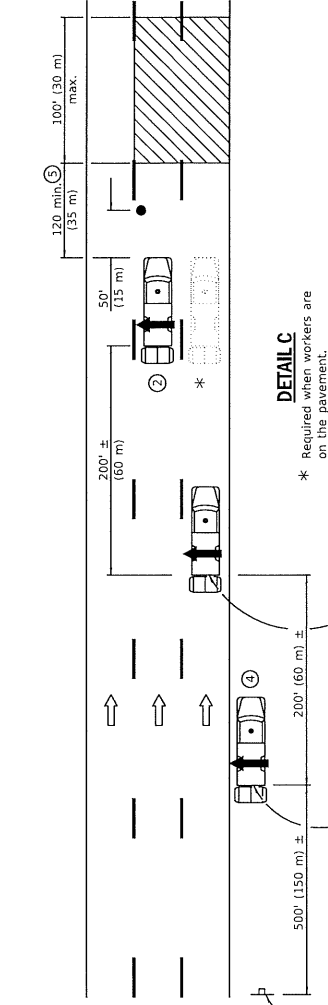
STANDARD 701426-09





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

**DETAIL A**



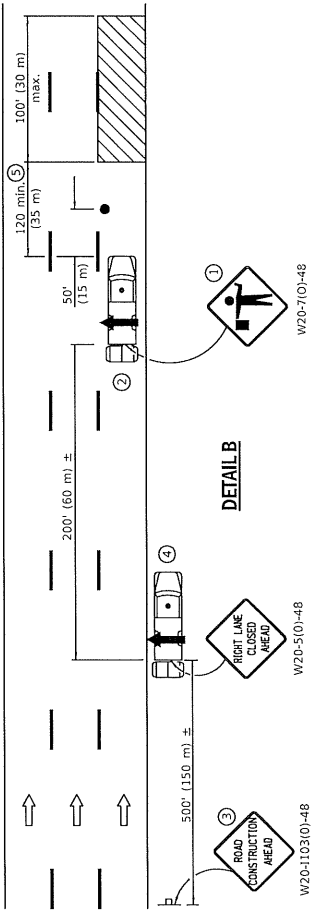
\* Required when workers are on the pavement.

**TYPICAL APPLICATIONS**

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



G20-101-2430  
(appropriate arrow)  
② (when striping only)



**DETAIL B**

**SYMBOLS**

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

- 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.

**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).

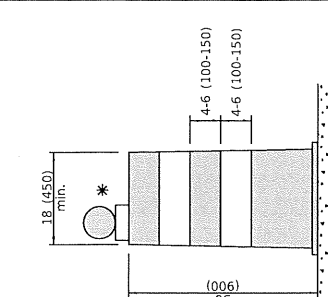
This Standard is also applicable when work is being performed in the left lane(s) or on the median shoulder. Under these conditions, KEEP RIGHT signs shall be substituted for KEEP LEFT signs and arrow board indications shall be directed to the right.  
All dimensions are in inches (millimeter) unless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

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

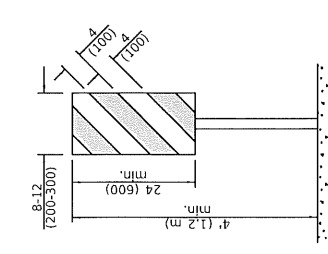
STANDARD 701427-05

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.

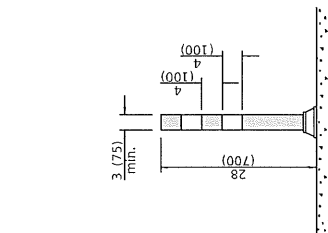
Illinois Department of Transportation  
 PASSED JANUARY 11, 2017  
 ENGINEER OF SAFETY PROG. AND ENGINEERING  
 APPROVED JANUARY 11, 2017  
 ENGINEER OF DESIGN AND ENVIRONMENT



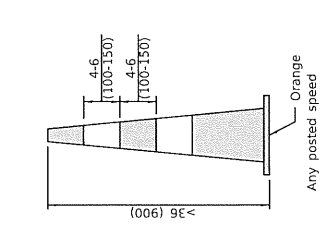
**DRUM**



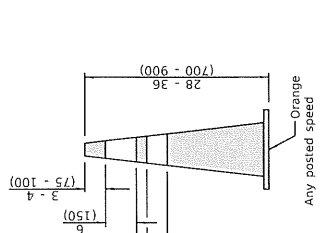
**VERTICAL PANEL**  
POST MOUNTED



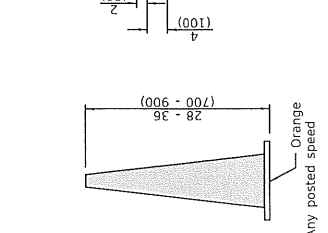
**TUBULAR MARKER**



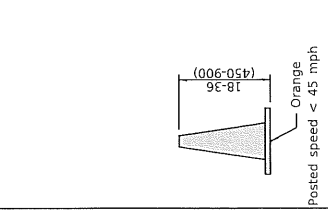
**DAY OR NIGHTTIME USE**  
Any posted speed



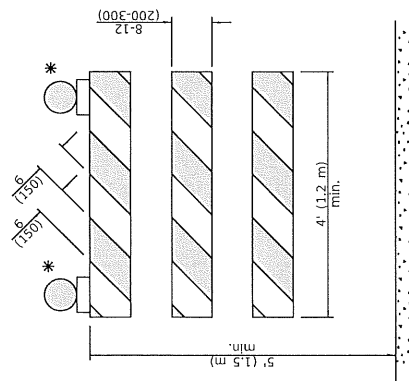
**DAYTIME USE**  
Any posted speed



**CONES**

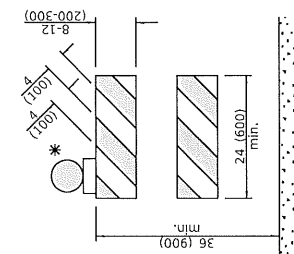


**DAYTIME USE**  
Posted speed < 45 mph

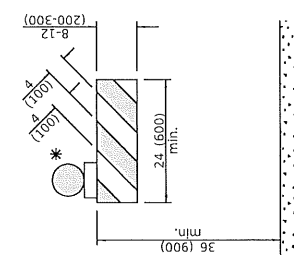


**TYPE III BARRICADE**

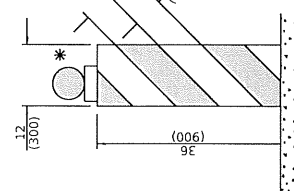
\* Warning lights (if required)



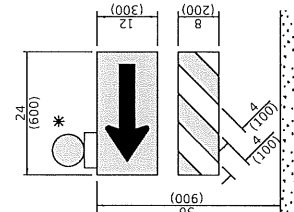
**TYPE II BARRICADE**



**TYPE I BARRICADE**



**VERTICAL BARRICADE**



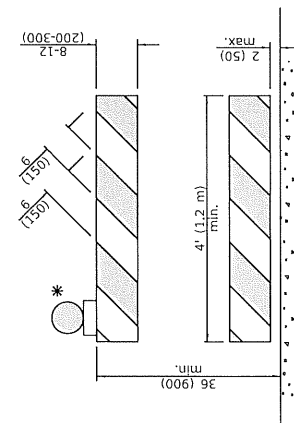
**DIRECTION INDICATOR BARRICADE**

**GENERAL NOTES**

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

TRAFFIC CONTROL DEVICES	
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.

**DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE**

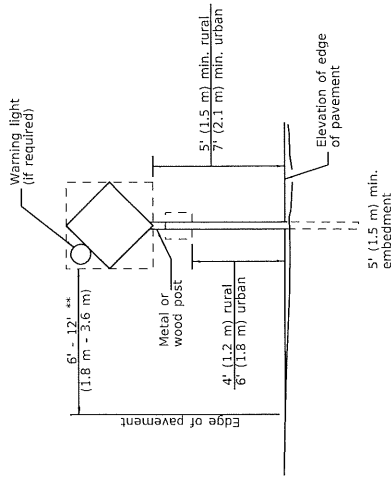


Illinois Department of Transportation

APPROVED: [Signature] JANUARY 1, 2019  
 ENGINEER OF SAFETY PROGRAM AND ENGINEERING

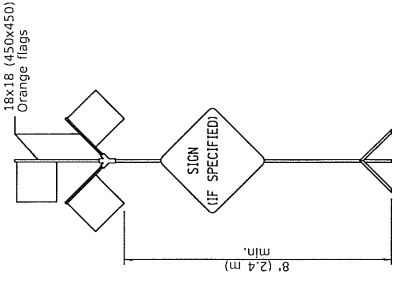
APPROVED: [Signature] JANUARY 1, 2019  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

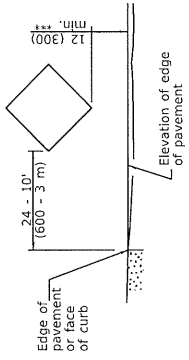


**POST MOUNTED SIGNS**

44 When curb or paved shoulder are present the sign shall be 2" (50 mm) above the face of curb or 6" (1.8 m) to the outside edge of the paved shoulder.

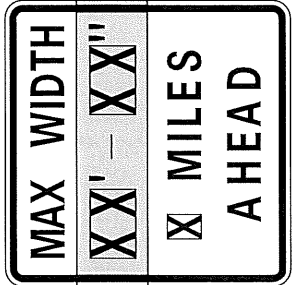


**HIGH LEVEL WARNING DEVICE**



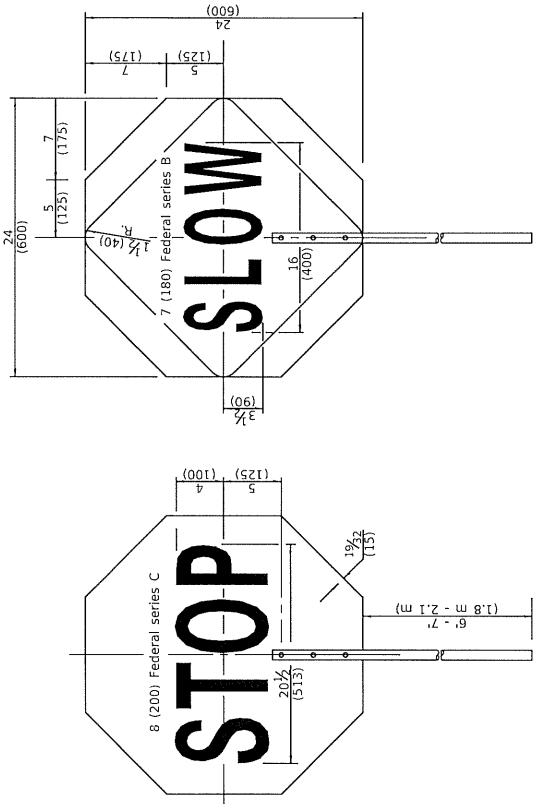
**SIGNS ON TEMPORARY SUPPORTS**

44\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



**WIDTH RESTRICTION SIGN**

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



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

END CONSTRUCTION  
G20-1105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

**WORK LIMIT SIGNING**

WORK ZONE SPEED LIMIT  
W21-1105(0)-3618  
R2-1-3648

PHOTO ENFORCED  
XX

SXXX FINE MINIMUM  
R10-1080p-3618 \*\*\*\*  
R2-1106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT  
G20-1103-6036

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\*\* R10-108p shall only be used along roadways under the jurisdiction of the State.

**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

**STANDARD 701901-08**

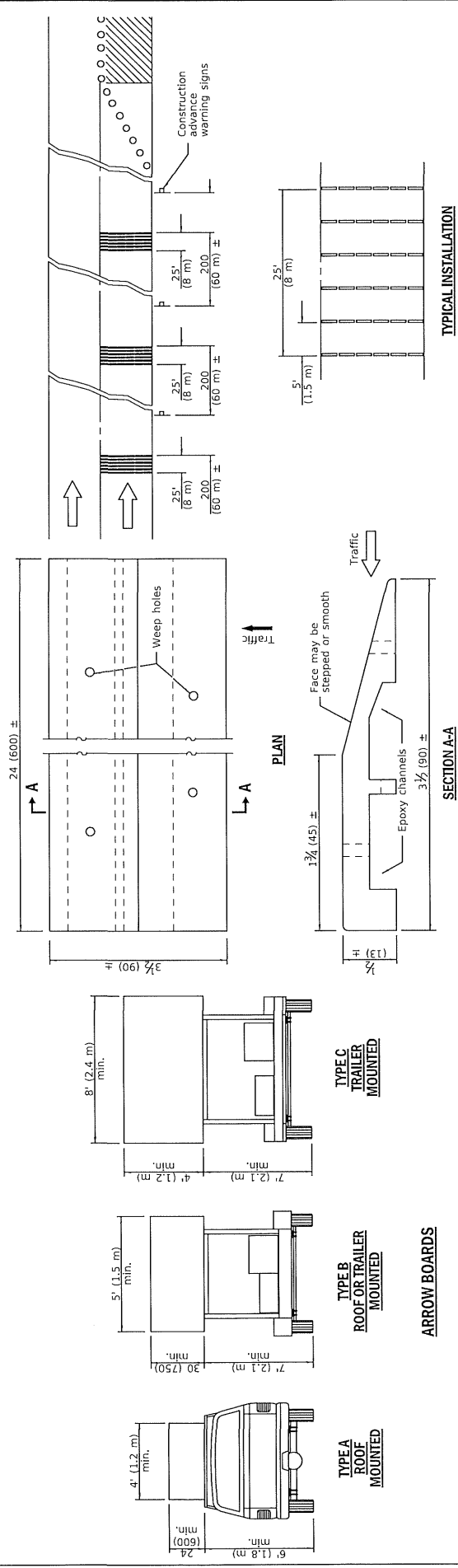
**FLAGGER TRAFFIC CONTROL SIGN**

Illinois Department of Transportation

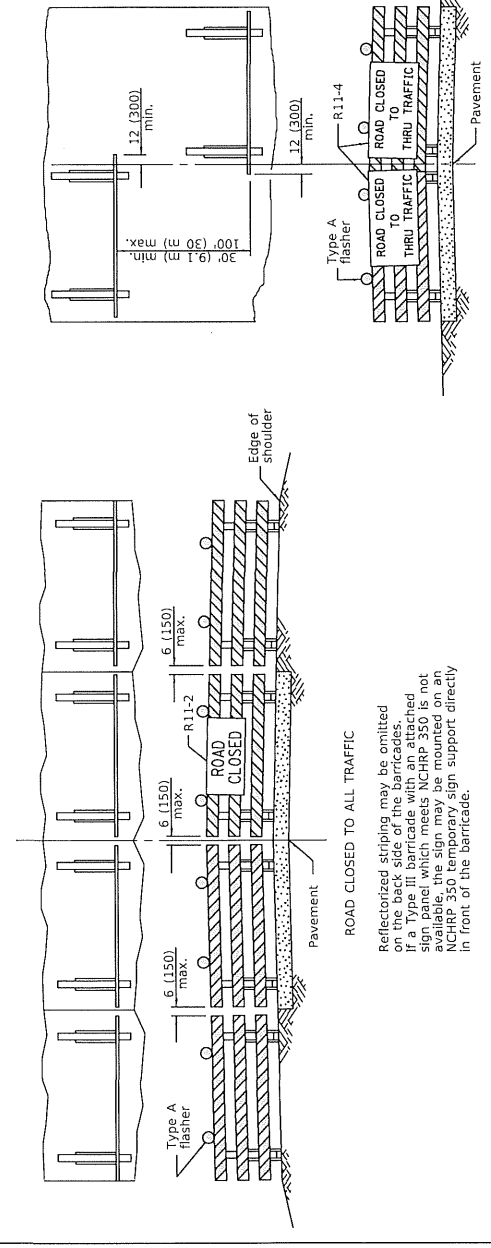
APPROVED: [Signature] JANUARY 1, 2019  
ENGINEER OF SAFETY PROC. AND ENGINEERING

APPROVED: [Signature] JANUARY 1, 2019  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13



**TEMPORARY RUMBLE STRIPS**

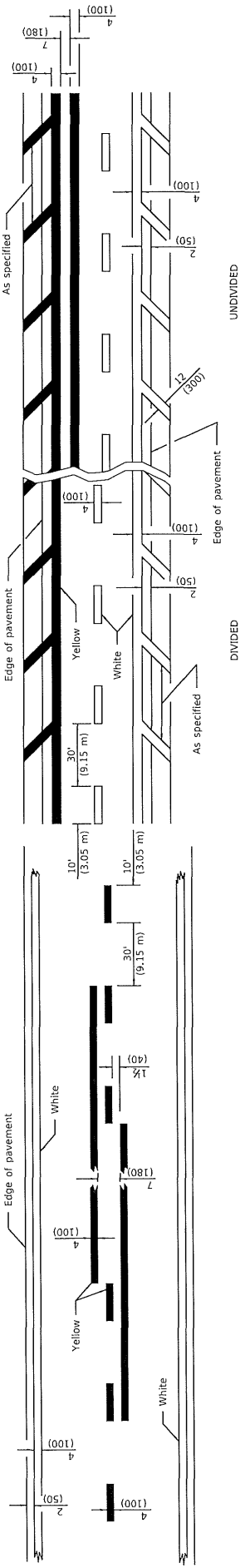


**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

ReflectORIZED striping shall appear on both sides of the barricades. If a Type III barricade is used, the sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

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

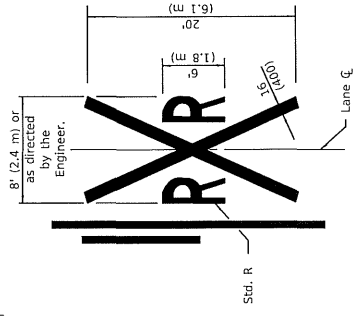
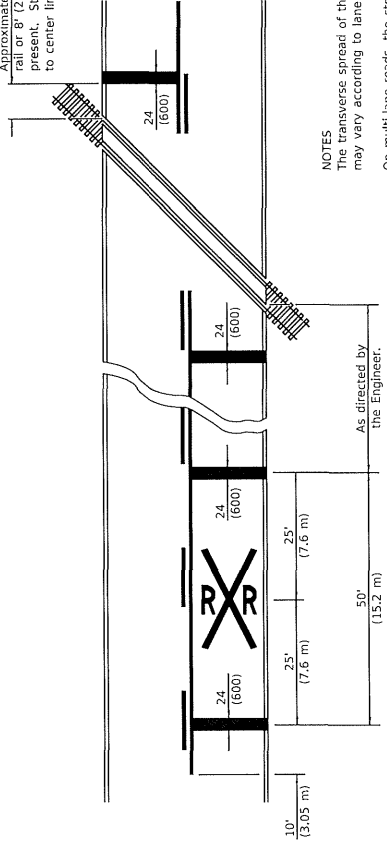


**2 LANE**

**MULTILANE**

**LANE AND EDGE LINES**

Approximately 15' (4.5 m) from nearest call or 8' (2.4 m) back from gate, if present. Stop line placed perpendicular to center line.



**NOTES**  
The transverse spread of the "X" may vary according to lane width.

On multi-lane roads, the stop lines shall extend across all approach lanes and separate RRR symbols shall be placed adjacent to each other in each lane.

When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition B of the MUTCD.

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

**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**

**TYPICAL PAVEMENT MARKINGS**

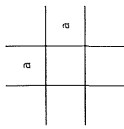
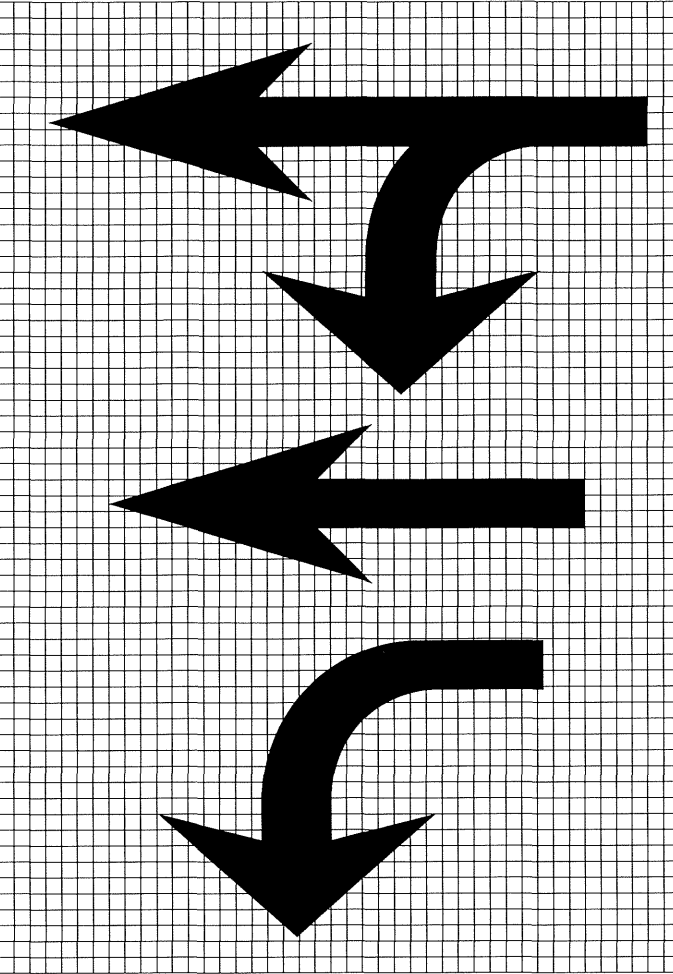
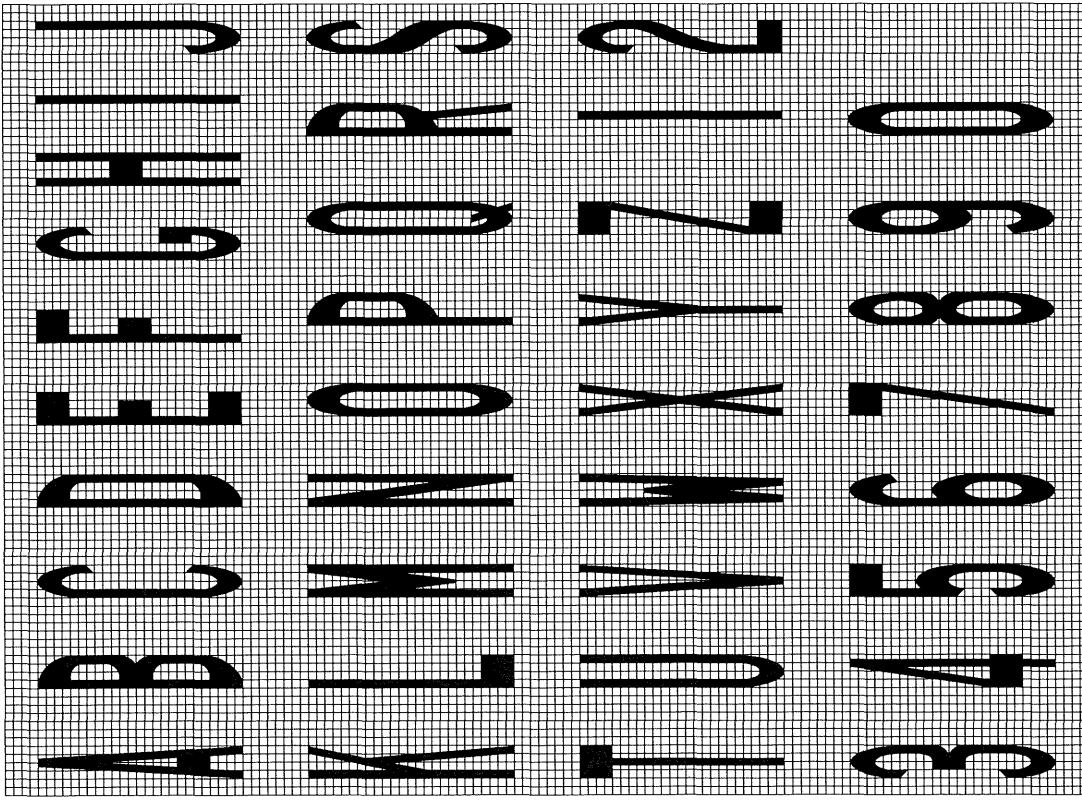
DATE	REVISIONS
1-1-15	Added symbols. Revised bike symbol. Revised note for stop line at RR crossing.
1-1-14	Added bike symbol. Renamed "LANE DROP ARROW" detail to "LANE-REDUCTION ARROW".

(Sheet 1 of 3)

**STANDARD 780001-05**

PASSED January 1, 2015  
 ENGINEER OF OPERATIONS  
 APPROVED January 1, 2015  
 ENGINEER OF DESIGN AND ENVIRONMENT




ISSUED 1-1-97



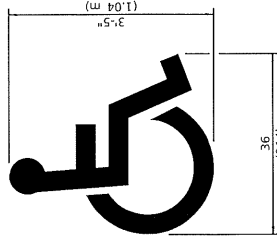
Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.5 (74)
8' (2.4 m)	Large	3.6 (96)

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

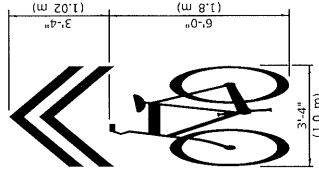
**LETTER AND ARROW GRID SCALE**


 Illinois Department of Transportation  
 PASSED January 1, 2015  
  
 ENGINEER OF OPERATIONS  
 APPROVED January 1, 2015  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

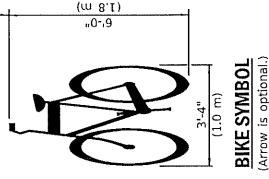
**TYPICAL PAVEMENT MARKINGS**  
 (Sheet 2 of 3)  
**STANDARD 780001-05**



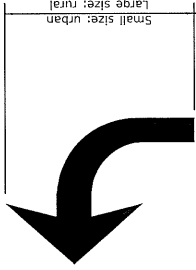
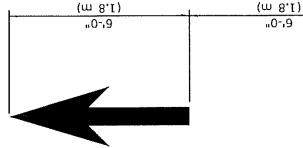
**INTERNATIONAL SYMBOL OF ACCESSIBILITY**



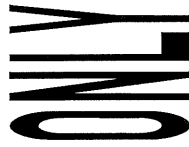
**SHARED LANE SYMBOL**



**BIKE SYMBOL**  
(Arrow is optional.)

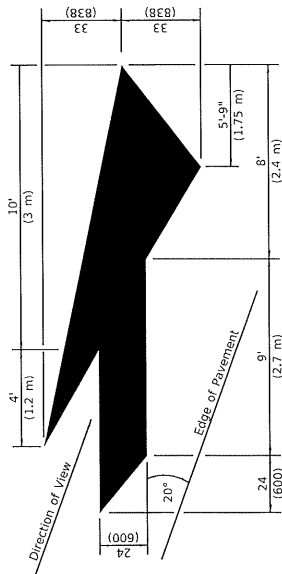


20' (6 m): urban  
50' (15 m): rural  
(Between arrow and word or between words)



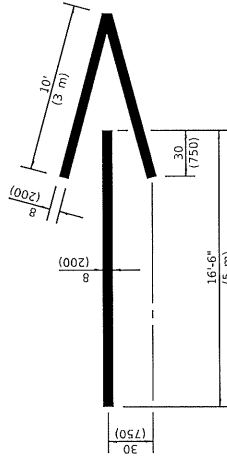
6' (1.8 m): urban  
8' (2.4 m): rural

**WORD AND ARROW LAYOUT**



**LANE-REDUCTION ARROW**

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



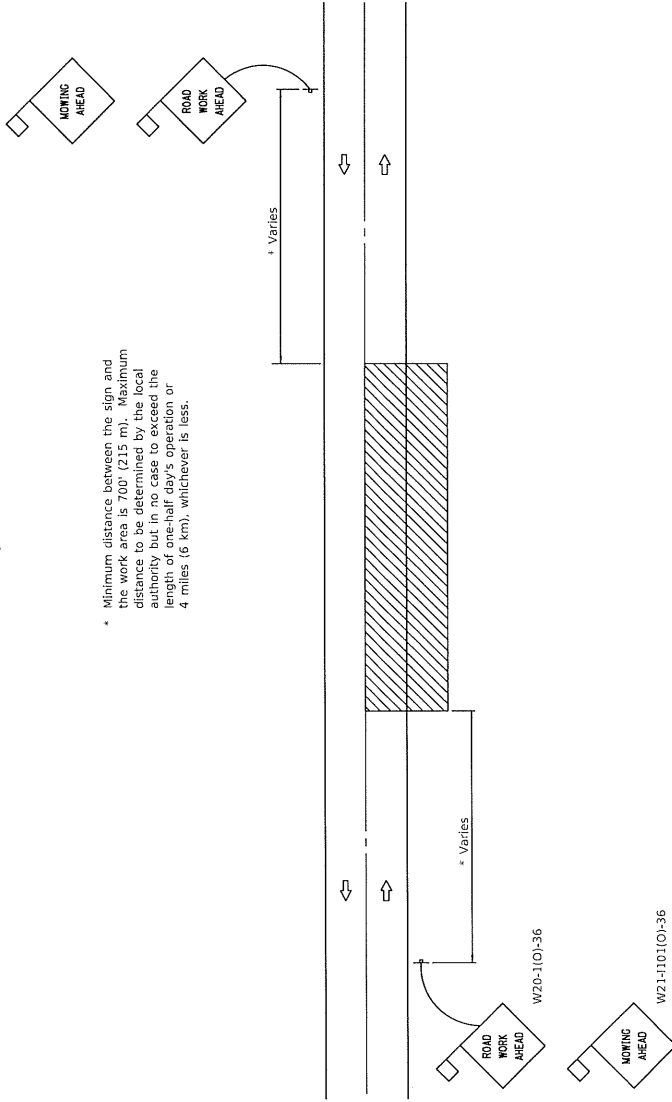
**WRONG WAY ARROW**

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

Illinois Department of Transportation  
 PASSED January 1, 2015  
 ENGINEER OF OPERATIONS  
 APPROVED January 1, 2015  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

\* 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**

Work area



Sign with 18x18 (450x450) min. orange flag attached.

**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 km/h), a ONE LANE AHEAD, or other appropriate sign, shall be installed in each direction 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 to 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 to 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**

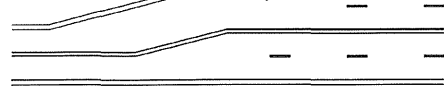
STANDARD B.L.R. 18-6

Illinois Department of Transportation  
 PASSED JANUARY 1, 2015  
 ENGINEER OF LOCAL ROADS AND STREETS  
 APPROVED *James K. Bear* JANUARY 1, 2015  
 ENGINEER OF DESIGN AND ENVIRONMENT

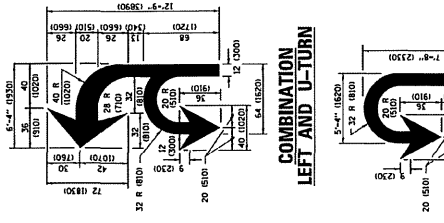
ISSUED 1-1-97



DIFT	SPEED LIMIT
345	30
475	35
500	40
540	45
565	50
750	55

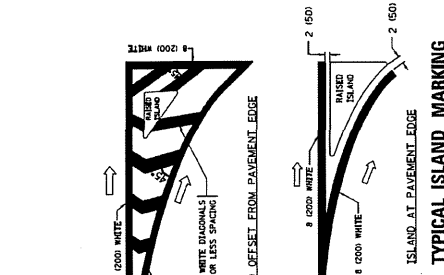


**LANE REDUCTION TRANSITION**  
\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

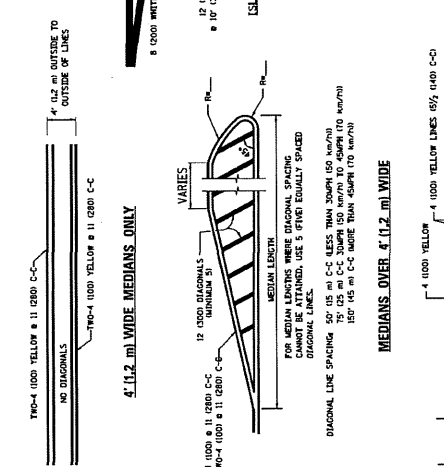


**COMBINATION LEFT AND U-TURN**

**U-TURN**



**TYPICAL ISLAND MARKING**

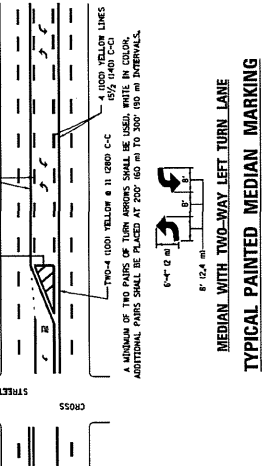


**TWO-4 1000 YELLOW & 11 0000 C-C**

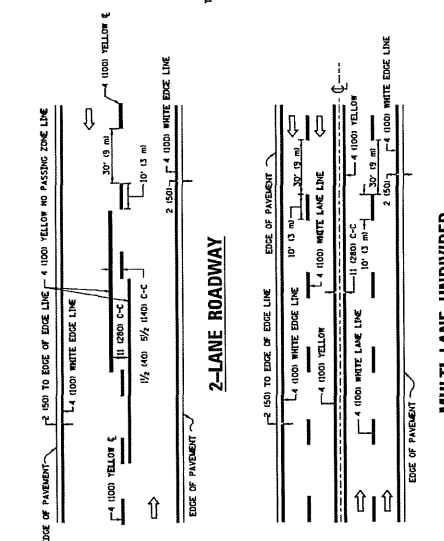
**4 (1.2 MI) WIDE MEDIANS ONLY**



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

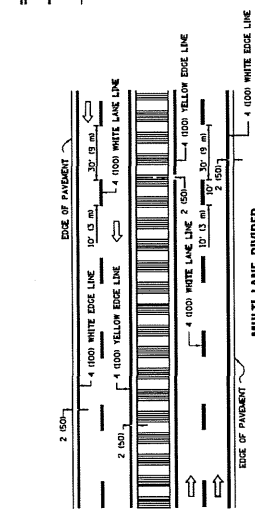


**TYPICAL PAINTED MEDIAN MARKING**



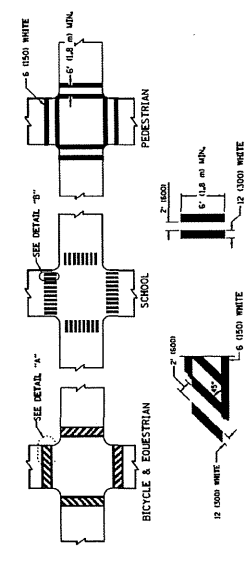
**2-LANE ROADWAY**

**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	PATTERN	COLOR	SPACING / DIMENSIONS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' 13" MI LINE WITH 30' 9" MI SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 & 4 (100)	SOLID	YELLOW	11 0000 C-C
PAVING ZONE LINES FOR BOTH DIRECTIONS	4 (100)	SOLID	YELLOW	5/8" (40) C-C FROM SKIP-DASH CENTERLINE
LANE LINES	2 & 4 (100)	SKIP-DASH	WHITE	10' 13" MI LINE WITH 30' 9" MI SPACE
LANE LINES (SAME AS LINE BEING EXTENDED)	4 (100)	SKIP-DASH	WHITE	10' 13" MI LINE WITH 6' 11/8" MI SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	4 (100)	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	8 (100)	SKIP-DASH	YELLOW	10' 13" MI LINE WITH 30' 9" MI SPACE FOR SKIP-DASH 20' 11/8" C-C BETWEEN SOLID MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN & DIAGONAL) (USE A CROSSWALK IN LONGITUDINAL DIRECTION)	2 & 4 (150)	SOLID	WHITE	NOT LESS THAN 6" (1.8) MI APART
STOP LINES	24 (1000)	SOLID	WHITE	10' 13" MI APART
PAINTED MEDIANS	2 (100)	SOLID	WHITE	10' 13" MI APART
LANE MARKINGS AND CHANNELIZING LINES	24 (1000)	SOLID	WHITE	10' 13" MI APART
RAILROAD CROSSING	24 (1000)	SOLID	WHITE	10' 13" MI APART
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS 2' 6")	12 (1000)	SOLID	WHITE	10' 13" MI APART
U TURN ARROW	SEE DETAIL	SOLID	WHITE	18.3 SF
U TURN COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR PARTIAL DETAILS ON PAVEMENT MARKING REFER TO CONSTRUCTION AND STATE STANDARD DRAWINGS.

FILE NO.	SECTION	COUNTY	TOTAL SHEETS
11-11-11-11-11	11-11-11-11-11	11-11-11-11-11	11-11-11-11-11

**DISTRICT ONE**  
**TYPICAL PAVEMENT MARKINGS**  
SCALE: NONE  
SHEET 1 OF 1 SHEETS STA. TO STA.

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
DESIGNED BY: C. JACIUS 08-20-09  
CHECKED BY: C. JACIUS 07-20-13  
DATE: 03-19-90



Local Public Agency

County

Section Number

McHenry County Division of Transportation

McHenry

21-00000-05-GM

**Material Proposal Schedule of Prices**

Group No.	Item(s)	Delivery	Unit	Quantity	Unit Price	Total
- 1	Thermo Pvt Mkgs - Line 4"		ft	145282		
-	Thermo Pvt Mkgs - Line 6"		ft	24410		
-	Thermo Pvt Mkgs - Line 8"		ft	2030		
-	Thermo Pvt Mkgs - Line 12"		ft	13332		
-	Thermo Pvt Mkgs - Line 24"		ft	4448		
-	Thermo Pvt Mkgs - Ltrs&Sym		sqft	9129		
-	Pvt Mkgs Removal		sqft	60844		
-						
-						
-						

Add Row

The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm. The undersigned firm further certifies that it is not barred from contracting with any unit of State or local government as a result of a violation of State laws prohibiting bid-rigging or bid rotating.

Signature of Bidder

Date

--	--

Address

City

State

Zip Code

--	--	--	--



Local Public Agency	County	Section Number
McHenry County Division of Transportation	McHenry	21-00000-05-GM

**Material Proposal Schedule of Prices**

Group No.	Item(s)	Delivery	Unit	Quantity	Unit Price	Total
- 2	HS Thermo Pvt Mkgs - Ln 4"		ft	160626		
-	HS Thermo Pvt Mkgs - Ln 6"		ft	5359		
-						
-						
-						
-						
-						
-						
-						
-						

Add Row

The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm. The undersigned firm further certifies that it is not barred from contracting with any unit of State or local government as a result of a violation of State laws prohibiting bid-rigging or bid rotating.

Signature of Bidder	Date

Address	City	State	Zip Code



Local Public Agency

County

Section Number

McHenry County Division of Transportation

McHenry

21-00000-05-GM

**Material Proposal Schedule of Prices**

Group No.	Item(s)	Delivery	Unit	Quantity	Unit Price	Total
- 3	Urethane Pvt Mkgs - Ln 4"		ft	1414		
-	Urethane Pvt Mkgs - Ln 6"		ft	1728		
-	Urethane Pvt Mkgs - Ln 8"		ft	180		
-	Urethane Pvt Mkgs - Ln 12"		ft	288		
-	Urethane Pvt Mkgs - Ln 24"		ft	303		
-	Urethane Pvt Mkgs - L & S		ft	176.8		
-						
-						
-						
-						

Add Row

The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm. The undersigned firm further certifies that it is not barred from contracting with any unit of State or local government as a result of a violation of State laws prohibiting bid-rigging or bid rotating.

Signature of Bidder

Date

--	--

Address

City

State

Zip Code

--	--	--	--



Local Public Agency	County	Section Number
McHenry County Division of Transportation	McHenry	21-00000-05-GM

WE, \_\_\_\_\_ as PRINCIPAL, and \_\_\_\_\_ as SURETY, are held jointly,

severally and firmly bound unto the above Local Public Agency (hereafter referred to as "LPA") 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 LPA 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 LPA 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 LPA 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 LPA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LPA 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 \_\_\_\_\_ of \_\_\_\_\_ Day Month and Year

Principal

Company Name  
 \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

By: \_\_\_\_\_

Title  
 \_\_\_\_\_

Company Name  
 \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

By: \_\_\_\_\_

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  
 \_\_\_\_\_

Signature of Attorney-in-Fact \_\_\_\_\_ Date \_\_\_\_\_

By: \_\_\_\_\_

STATE OF IL  
 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 \_\_\_\_\_ Month and Year

(SEAL)

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

Date commission expires \_\_\_\_\_

Local Public Agency

County

Section Number

McHenry County Division of Transportation

McHenry

21-00000-05-GM

ELECTRONIC BID BOND

Electronic bid bond is allowed (box must be checked by LPA 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 LPA 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

Date

--

--

Title

--



**Affidavit of Availability**  
For the Letting of 03/09/21



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

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

**Part I. Work Under Contract**

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

	1	2	3	4	Awards Pending	Accumulated Totals
Contract Number						
Contract With						
Estimated Completion Date						
Total Contract Price						
Uncompleted Dollar Value if Firm is the Prime Contractor						
Uncompleted Dollar Value if Firm is the Subcontractor						
Total Value of All Work						

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

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

Earthwork						
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases, Surfaces						
Highway, R.R., Waterway Struc.						
Drainage						
Electrical						
Cover and Seal Coats						
Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning, Rotomilling						
Demolition						
Pavement Markings (Paint)						
Other Construction (List)						
Totals						

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

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

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

	1	2	3	4	Awards Pending
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
<b>Total Uncompleted</b>					

**Notary**

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

Officer or Director

Title

Signature

Date

Company

Address

City

State

Zip Code

Subscribed and sworn to before me

this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_  
(Signature of Notary Public)

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

(Notary Seal)

Add pages for additional contracts