



COVER SHEET

**Proposal Submitted By:**  
 Contractor's Name  
  
 Contractor's Address  
 City  State  Zip Code

STATE OF ILLINOIS  
 Local Public Agency  
 County  Section Number   
 City of Troy  Madison  22-00037-00-RS   
 Route(s) (Street/Road Name)  Type of Funds   
 Formosa Rd MUN 6041  MFT

Proposal Only  Proposal and Plans  Proposal only, plans are separate

Submitted/Approved  
For Local Public Agency:

**For a County and Road District Project**  
 Submitted/Approved  
 Highway Commissioner Signature & Date  
  
 Submitted/Approved  
 County Engineer/Superintendent of Highways Signature & Date

**For a Municipal Project**  
 Submitted/Approved/Passed  
 Signature & Date  
 Paul Mon 8/9/23  
 Official Title  
 Mayor

**Department of Transportation**  
 Released for bid based on limited review  
 Regional Engineer Signature & Date  
 Mike R 9/28/2023

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	Route(s) (Street/Road Name)
City of Troy	Madison	22-00037-00-RS	Formosa Rd MUN 6041

**NOTICE TO BIDDERS**

Sealed proposals for the project described below will be received at the office of the City Clerk,  
116 East Market St, Troy, Illinois, 62294 until 10 AM on Nov. 1, 2023.  
Name of Office  
Address Time Date

Sealed proposals will be opened and read publicly at the office of the City Clerk,  
116 East Market St, Troy, Illinois, 62294 at 10 AM on Nov. 1, 2023.  
Name of Office  
Address Time Date

**DESCRIPTION OF WORK**

Location	Project Length
Formosa Road from Edwardsville Rd (IL-162) north to Midwest Mulch & Compost entrance	1.006 miles

Proposed Improvement  
 Crack sealing, concrete pavement patching, hot-mix asphalt surface course, aggregate shoulders, and the installation of a culvert on Formosa Road.

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

2.  Prequalification  
 If checked, the 2 apparent as read low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57) in triplicate, 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 two originals with the IDOT District Office.
3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.
4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:
  - a. Local Public Agency Formal Contract Proposal (BLR 12200)
  - b. Schedule of Prices (BLR 12201)
  - c. Proposal Bid Bond (BLR 12230) (if applicable)
  - d. Apprenticeship or Training Program Certification (BLR 12325) (do not use for project with Federal funds.)
  - e. Affidavit of Illinois Business Office (BLR 12326) (do not use for project with Federal funds)
5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.
6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.
7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.
8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.
9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Troy	Madison	22-00037-00-RS	Formosa Rd MUN 6041

**PROPOSAL**

1. Proposal of \_\_\_\_\_ Contractor's Name \_\_\_\_\_

Contractor's Address \_\_\_\_\_

2. The plans for the proposed work are those prepared by Oates Associates, Inc. and approved by the Department of Transportation on \_\_\_\_\_.

3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the " Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.

4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.

5. The undersigned agrees to complete the work within 60 working days or by \_\_\_\_\_ unless additional time is granted in accordance with the specifications.

6. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond of check shall be forfeited to the Awarding Authority.

7. 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 products 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 may be declared unacceptable if neither a unit price nor a total price is shown.

8. The undersigned submits herewith the schedule of prices on BLR 12201 covering the work to be performed under this contract.

9. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12201, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

10. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond, if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to: Kelly Huelsmann Treasurer of City of Troy, Illinois.

The amount of the check is \_\_\_\_\_ ( \_\_\_\_\_ ).

**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 \_\_\_\_\_.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Troy	Madison	22-00037-00-RS	Formosa Rd MUN 6041

## CONTRACTOR CERTIFICATIONS

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

- Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedure established by the appropriate Revenue Act, its liability for the tax or the amount of the tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.
- Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

A violation of section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense, or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State of Local government. No corporation shall be barred from contracting with any unit of State or Local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

- Bribery.** The bidder or contractor or subcontractor, respectively, certifies that, it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter or 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.
- Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be canceled.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Troy	Madison	22-00037-00-RS	Formosa Rd MUN 6041

**SIGNATURES**

(If an individual)

Bidder Signature & Date

Business Address

City

State

Zip Code

(If a partnership)

Firm Name

Signature & Date

Title

Business Address

City

State

Zip Code

Insert the Names and Addresses of all Partners

(If a corporation)

Corporate Name

Signature & Date

Title

Business Address

City

State

Zip Code

Insert Names of Officers

President

Attest:

Secretary

Secretary

Treasurer



Contractor's Name

Contractor's Address

City

State

Zip Code

Local Public Agency

County

Section Number

Route(s) (Street/Road Name)

**Schedule for Multiple Bids**

Combination Letter	Section Included in Combinations	Total

**Schedule for Single Bid**

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

Item Number	Items	Unit	Quantity	Unit Price	Total
20200100	EARTH EXCAVATION	CU YD	200		
20400800	FURNISHED EXCAVATION	CU YD	100		
25000110	SEEDING, CLASS 1A	ACRE	1.3		
25000400	NITROGEN FERT NUTR	POUND	117		
25000500	PHOSPHORUS FERT NUTR	POUND	117		
25000600	POTASSIUM FERT NUTR	POUND	117		
25100105	MULCH, METHOD 1	ACRE	1.3		
25100630	EROSION CONTR BLANKET	SQ YD	430		
28000250	TEMP EROS CONTR SEED	POUND	130		
28000305	TEMP DITCH CHECKS	FOOT	12		
28000500	INLET & PIPE PROTECT	EACH	1		
40600985	PCC SURF REM BUTT JT	SQ YD	426		
40604052	HMA SC IL-9.5 C N70	TON	865		
40700100	BIT MATLS TACK CT	POUND	2623		
40800050	INCIDENTAL HMA SURF	TON	113		
44200948	CL B PATCH T1 9	SQ YD	7		
44200956	CL B PATCH T2 9	SQ YD	618		
44200962	CL B PATCH T3 9	SQ YD	56		
44200964	CL B PATCH T4 9	SQ YD	416		
45100200	CRACK FILLING	POUND	5407		
48100300	AGGREGATE SHLDS A 4	SQ YD	2312		
542A0217	P CUL CL A 1 12	FOOT	32		
54213657	PRC FLAR END SEC 12	EACH	2		
67100100	MOBILIZATION	L SUM	1		

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Troy	Madison	22-00037-00-RS	Formosa Rd MUN 6041

Item Number	Items	Unit	Quantity	Unit Price	Total
78001100	PT PVT MK LTRS & SYMB	SQ FT	55		
78001110	PAINT PVT MK LINE 4	FOOT	17815		
78001150	PAINT PVT MK LINE 12	FOOT	235		
78001180	PAINT PVT MK LINE 24	FOOT	32		
X1500004	BIT SURF TREATMNT A1	SQ YD	5828		
X4060987	PCC SUR RM BUTT JT SP	SQ YD	681		
X7010216	TRAF CONT & PROT SPL	L SUM	1		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		
	CRACK FILL W/ BACKER ROD	FOOT	2978		
Bidder's Total Proposal					

1. Each pay item should have a unit price and a total price.
2. 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.
3. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
4. A bid may be declared unacceptable if neither a unit price or total price is shown.



Local Public Agency	County	Street Name/Road Name	Section Number
City of Troy	Madison	Formosa Road	22-00037-00-RS

**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>		
Title			
<div style="border: 1px solid black; height: 20px;"></div>			
Address	City	State	Zip Code
<div style="border: 1px solid black; height: 20px;"></div>			



**Affidavit of Illinois Business Office**

Local Public Agency	County	Street Name/Road Name	Section Number
City of Troy	Madison	Formosa Rd MUN 6041	22-00037-00-RS

I, \_\_\_\_\_ of \_\_\_\_\_, \_\_\_\_\_,  
Name of Affiant City of Affiant State of Affiant

being first duly sworn upon oath, state as follows:

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

Signature & Date

Print Name of Affiant

**Notary Public**

State of IL

County \_\_\_\_\_

Signed (or subscribed or attested) before me on \_\_\_\_\_ by  
(date)

\_\_\_\_\_, authorized agent(s) of  
(name/s of person/s)

\_\_\_\_\_  
Bidder

Notary Public Signature & Date

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

(SEAL)



Local Public Agency

County

Section Number

City of Troy

Madison

22-00037-00-RS

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 Signature & 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, if required by the LPA)

Notary Public Signature & Date

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

Local Public Agency

County

Section Number

City of Troy

Madison

22-00037-00-RS

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

--



Local Public Agency	County	Section Number
City of Troy	Madison	22-00037-00-RS

Check this box for lettings prior to 01/01/2023.

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	53
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	56
3	<input type="checkbox"/> EEO	57
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	67
5	<input type="checkbox"/> Required Provisions - State Contracts	72
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	78
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal	79
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	80
9	<input checked="" type="checkbox"/> Construction Layout Stakes	81
10	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	84
11	<input type="checkbox"/> Subsealing of Concrete Pavements	86
12	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	90
13	<input type="checkbox"/> Pavement and Shoulder Resurfacing	92
14	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	93
15	<input type="checkbox"/> Polymer Concrete	95
16	<input type="checkbox"/> Reserved	97
17	<input type="checkbox"/> Bicycle Racks	98
18	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	100
19	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	102
20	<input type="checkbox"/> English Substitution of Metric Bolts	103
21	<input checked="" type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	104
22	<input checked="" type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	105
23	<input checked="" type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	113
24	<input type="checkbox"/> Reserved	129
25	<input type="checkbox"/> Reserved	130
26	<input type="checkbox"/> Temporary Raised Pavement Markers	131
27	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	132
28	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	135
29	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	139
30	<input type="checkbox"/> Longitudinal Joint and Crack Patching	142
31	<input checked="" type="checkbox"/> Concrete Mix Design - Department Provided	144
32	<input type="checkbox"/> Station Numbers in Pavements or Overlays	145

City of Troy

Madison

22-00037-00-RS

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>	147
LRS 2	<input type="checkbox"/> Furnished Excavation	148
LRS 3	<input checked="" type="checkbox"/> Work Zone Traffic Control Surveillance	149
LRS 4	<input checked="" type="checkbox"/> Flaggers in Work Zones	150
LRS 5	<input checked="" type="checkbox"/> Contract Claims	151
LRS 6	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	152
LRS 7	<input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	158
LRS 8	<b>Reserved</b>	164
LRS 9	<input checked="" type="checkbox"/> Bituminous Surface Treatments	165
LRS 10	<b>Reserved</b>	169
LRS 11	<input checked="" type="checkbox"/> Employment Practices	170
LRS 12	<input checked="" type="checkbox"/> Wages of Employees on Public Works	172
LRS 13	<input checked="" type="checkbox"/> Selection of Labor	174
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	175
LRS 15	<input checked="" type="checkbox"/> Partial Payments	178
LRS 16	<input type="checkbox"/> Protests on Local Lettings	179
LRS 17	<input checked="" type="checkbox"/> Substance Abuse Prevention Program	180
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	181
LRS 19	<input type="checkbox"/> Reflective Crack Control Treatment	182

**SPECIAL PROVISIONS**

**FORMOSA ROAD PATCHING AND RESURFACING  
MUN 6041 (FORMOSA ROAD)  
SECTION: 22-00037-00-RS  
CITY OF TROY, ILLINOIS**

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## **SPECIAL PROVISIONS**

### **FORMOSA ROAD PATCHING AND RESURFACING MUN 6041 (FORMOSA ROAD) SECTION: 22-00037-00-RS CITY OF TROY, ILLINOIS**

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted January 1, 2022, 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 the invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein and the "Standards for Water and Sewer Main Construction in Illinois", Adopted July 2009 which apply to and govern the construction of Formosa Road Patching and Resurfacing, Section 22-00037-00-RS, Troy, Illinois, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

#### **DESCRIPTION OF WORK**

The proposed resurfacing project is located on Formosa Road from the intersection of Edwardsville Road (IL-162) north to the end of Formosa Road at the entrance of Midwest Mulch & Compost in Troy, Illinois. The project length is 5,312 feet (1.006 miles).

The work on this project consists of crack sealing, concrete pavement patching, hot-mix asphalt surface course, aggregate shoulders, storm sewer culverts, paint pavement markings, seeding and all incidental and collateral work necessary to complete the work in the above-described Section according to the plans, specifications and special provisions.

#### **COORDINATION OF CONTRACT DOCUMENTS**

If a conflict exists between the "Standard Specifications for Road and Bridge Construction" and the "Standard Specifications for Water and Sewer Construction in Illinois", the "Standard Specifications for Road and Bridge Construction" shall govern.

#### **SAFETY AND HEALTH**

The Contractor shall be responsible for enforcing all O.S.H.A. Safety and Health Standards pertaining to the construction industry as established by the United States Department of Labor, Occupational Safety and Health Administration. Such standards include, but are not limited to, 29 CFR 1910 and 1926.

#### **SAFETY AND PROTECTION**

- A. CONTRACTOR shall be responsible for initiating, maintaining and supervising all safety and precautions and programs in connection with the Work. CONTRACTOR

shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

1. All employees on the work and other persons and organizations who may be affected thereby;
2. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
3. Other property at the site adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and underground facilities not designated for removal, relocation or replacement in the course of construction.

CONTRACTOR shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons and property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR shall notify owners of adjacent property and of underground facilities and utility owners when prosecution of the Work may affect them and shall cooperate with them in the protection, removal, relocation and replacement of their property. All damage, injury or loss to any property referred to in paragraph 2. or 3. caused, directly or indirectly, in whole or in part, by CONTRACTOR, any Subcontractor, Supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts either of them may be liable, shall be remedied by CONTRACTOR (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of OWNER or ENGINEER or anyone employed by either of them or anyone for acts either of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of CONTRACTOR). CONTRACTOR's duties and responsibilities for the safety and protection of the Work shall continue until all the Work is completed and ENGINEER has issued a notice to OWNER and CONTRACTOR that the Work is acceptable.

- B. CONTRACTOR shall designate a responsible representative at the site whose duty shall be the prevention of accidents. This person shall be CONTRACTOR's superintendent, unless otherwise designated in writing by CONTRACTOR to OWNER.
- C. In EMERGENCIES affecting the safety or protection of persons or the Work or property at the site or adjacent thereto, CONTRACTOR, without special instructions or authorization from ENGINEER or OWNER, is obligated to act to prevent threatened damage, injury or loss. CONTRACTOR shall give ENGINEER prompt, written notice if CONTRACTOR believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby. If ENGINEER determines that a change in the Contract Documents is required because of the action taken in response to an emergency, a Work Directive Change or Change Order will be issued to document the consequences of the changes or variations.

## **CONSTRUCTION CONTRACTS**

The successful bidder, as a condition of this contract, must submit evidence that he has conducted a pre-job conference with his Subcontractors and their employees, or the employees' duly recognized representatives and union officials, to determine employee jurisdiction, job assignment and work schedules. This requirement is to promote industrial harmony and to eliminate work stoppages and jurisdictional disputes. The pre-job conference shall be conducted at least 14 calendar days prior to the commencement of any construction.

## **SEQUENCE OF CONSTRUCTION OPERATIONS**

The Contractor shall conduct his work within the approved Sequence of Construction Operations at all times. The work shall be done in a manner that will minimize the inconvenience to local traffic. Access to all businesses and roads shall be maintained.

The Contractor shall conduct his operations to insure local access to all properties throughout the project limits according to Article 107.09 and Section 701 and 703 of the "Standard Specifications for Road and Bridge Construction". Road shall be constructed with one lane open at all times to thru traffic.

The Contractor shall note the number and locations of the across road culverts/storm sewers and their effect on maintaining local access to all properties throughout the project limits:

Sta. 34+40                      12 in. RCP

The Contractor will not be permitted to close Formosa Road entirely.

## **SUGGESTED SEQUENCE**

During construction, the Contractor will be required to maintain access to all properties affected by this work. AGGREGATE FOR TEMPORARY ACCESS according to Section 402 of the "Standard Specifications for Road and Bridge Construction" will be used for this purpose. The cost of all materials and labor required to comply with this requirement will not be paid for separately, but shall be considered as included in the contract lump sum price for TRAFFIC CONTROL & PROTECTION (SPECIAL).

The Contractor will not be allowed to begin subsequent construction operations until the preceding work is substantially complete. The construction sequence shall be compressed as much as possible to minimize the inconvenience to local traffic.

Unless authorized by the Engineer, the Contractor shall complete the construction in the following suggested sequence:

### **STAGE 1A:**

Complete concrete pavement patching, concrete butt joints, and storm sewer culvert on the southbound lane of Formosa Road from Station 17+18 to Station 36+58. Complete crack sealing on Formosa Road from Station 9+89 to Station

63+01. The upstream end of the culvert at Station 34+40 shall be protected from fill until the northbound lane is completed in Stage 1B.

**STAGE 1B:**

Complete concrete pavement patching, concrete butt joints, and storm sewer culvert on the northbound lane of Formosa Road from Station 17+18 to Station 36+58.

**STAGE 2:**

Complete asphalt surface course on Formosa Road from Station 17+18 to Station 36+58. Construct aggregate shoulders along Formosa Road from Station 17+18 to Station 39+12.

**STAGE 3:**

Install pavement markings on Formosa Road from Station 9+89 to Station 63+01.

Seeding operations shall be completed as soon as possible to minimize erosion potential. TEMPORARY EROSION CONTROL SEEDING will be paid for according to Section 280 of the "Standard Specifications for Road and Bridge Construction".

The Contractor may submit an alternate sequence of operations and traffic control plan that would expedite construction and still maintain traffic control. Any and all changes to these plans must be submitted in writing and approved in advance by the Engineer. No additional compensation will be allowed if alternate plans are approved.

## **TRAFFIC CONTROL PLAN**

Traffic control shall be according to the applicable Sections of the "Standard Specifications for Road and Bridge Construction", the applicable guidelines contained in the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", these special provisions, and all special details and Highway Standards contained herein and on the plans.

At the preconstruction meeting, the Contractor shall furnish the name of the individual in his/her direct employ who is responsible for the installation and maintenance of the traffic control for this project. If the actual installation and maintenance are to be accomplished by the Subcontractor, consent shall be requested of the Engineer at the time of the preconstruction meeting according to Article 108.01 of the "Standard Specifications for Road and Bridge Construction". This shall not relieve the Contractor of the foregoing requirement for a responsible individual in his direct employ. The City will provide the Contractor the name of its representative who will be responsible for the observation of the Traffic Control Plan.

The Contractor shall furnish, erect, maintain and remove all warning signs, flags, barricades and lights according to Article 107.14 and Sections 701 and 703 of the "Standard Specifications for Road and Bridge Construction", the latest edition of the "Manual of Uniform Traffic Control Devices for Construction and Maintenance Operations", the Special Provisions, and/or as directed by the Engineer.

Articles 107.09 and 107.14 and Sections 701 and 703 of the "Standard Specifications for Road and Bridge Construction", BDE Check Sheet 80192 and the following Highway Standards relating to traffic control apply to this contract:

701011      701311      701501      701901

In addition, the following special provision(s) will also govern traffic control for this project:

SEQUENCE OF CONSTRUCTION OPERATIONS  
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)  
FLAGGERS IN WORK ZONES  
WORK ZONE TRAFFIC CONTROL SURVEILLANCE

### **TRENCH BACKFILL**

This work shall be constructed according to Section 208 of the "Standard Specifications for Road and Bridge Construction", except as modified herein:

Fine aggregate according to Article 1003.04 may be used for bedding only, except as follows: Fine aggregate will be required for trench backfill within 2 ft. of all gas mains and gas service lines that are exposed during trenching operations.

Material for trench backfill shall be coarse aggregate gradation CA 6, CA 10 or CA 18 as specified in Article 1004.05.

Trench backfill material shall be compacted according to Method 1, as specified in Article 550.07(a) of the "Standard Specifications for Road and Bridge Construction".

This work shall be incidental to PIPE CULVERTS, CLASS A, TYPE 1 and will not be paid for separately, but shall be paid for in the contract unit price.

### **SEEDING, CLASS 1A**

This work shall consist of preparing the seed bed, and furnishing, transporting and placing the seed, fertilizer and mulch required to restore all disturbed earth surfaces according to Sections 250 and 251 of the "Standard Specifications for Road and Bridge Construction".

The Contractor shall guarantee a minimum of 90 percent uniform growth over the entire seeded areas(s). Areas sustaining less than 90 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost.

This work will be paid for at the contract unit price per acre for SEEDING of the Class specified, which price shall include the fertilizer and mulch.

## **TIE BARS & REINFORCEMENT BARS**

This work shall consist of furnishing and placing tie bars and reinforcement bars in concrete pavement according to Sections 420 of the "Standard Specifications for Road and Bridge Construction", except as modified herein:

All tie bars and reinforcement bars used in Portland cement concrete pavement shall be epoxy coated.

This work will not be paid for separately, but shall be included in the contract unit price of the various concrete pavement items for which the tie bars and reinforcement bars are required.

## **CLASS B PATCHES**

This work shall consist of the removal of the existing pavement, the necessary excavation and the replacement with Class B patches of the type and thickness specified at the designated locations, according to Section 442 of the "Standard Specifications for Road and Bridge Construction".

The existing pavement thickness is estimated to be 9 in. The existing pavement thickness shall be field verified. The existing pavement shall be replaced with a full-depth patch. If necessary, the pavement patching quantity will be adjusted according to Article 442.10 of the "Standard Specifications for Road and Bridge Construction".

Dowel bars and tie bars of the diameter specified on the plans will be required, but will not be measured separately for payment. Pavement fabric will be required, but will not be measured separately for payment. Mandatory saw cuts will also not be measured separately for payment. A minimum 12 in. wide ledge of undisturbed material shall be maintained along the sides of all pavement patches where trenching is required.

This work will be paid for at the contract unit price per square yard for CLASS B PATCHES, of the type and thickness specified, which price shall include the cost of performing the work as specified in Section 442, including sawing and removal and disposal of existing materials; furnishing and installing contraction joints, dowel bars, tie bars, pavement fabric, and joint sealing, as required.

## **PIPE CULVERTS, CLASS A, TYPE 1**

This work shall consist of furnishing and installing pipe culverts of the required type and inside diameter at locations shown on the plans according to Section 542 of the "Standard Specifications for Road and Bridge Construction".

All pipe culverts shall be Reinforced Concrete Culvert, Storm Drain and Sewer Pipe according to Article 1042.06 of the "Standard Specifications for Road and Bridge Construction". Each pipe section shall be sealed with a preformed flexible rubber gasket. The gasket shall be confined in a recessed groove cast into the spigot of the pipe, which will hold the gasket in place when the joint is assembled, forming a watertight seal, according to ASTM C443.

The cost incurred by the Contractor in complying with this requirement shall be considered as included in the contract unit price bid for PIPE CULVERTS, CLASS A, of the type and diameter specified.

### **PORTLAND CEMENT CONCRETE SURFACE REMOVAL – BUTT JOINT (SPECIAL)**

This work shall consist of constructing butt joints of the specified dimensions at the locations shown on the plans according to Article 406.08 of the “Standard Specifications for Road and Bridge Construction” and the detail in the plans.

### **TRAFFIC CONTROL AND PROTECTION, (SPECIAL)**

This work shall consist of furnishing, installing, maintaining and removing all traffic control devices for traffic control and protection as shown on Highway Standards 701011, 701311, 701501, and 701901 included in the plans, according to the TRAFFIC CONTROL PLAN, according to Section 701 of the "Standard Specifications for Road and Bridge Construction", BDE Check Sheet 80192, and as directed by the Engineer and as specified herein.

Prior to beginning work on the project, the Contractor shall furnish and install Type III barricades and advance warning signs as shown on the TRAFFIC CONTROL PLAN and as detailed in the applicable Highway Standards. Barricade placement and sign spacing may be adjusted by the Engineer to suit field conditions.

Throughout the construction period, all material piles, equipment, open excavations or other obstructions or hazards to motorists or pedestrians shall be enclosed by fences or protected by barricades and proper lighting. Excavations adjacent to the edge of pavement shall be protected with extended leg barricades with appropriate lights.

Traffic control and protection according to Highway Standard 701501 and BDE Check Sheet 80192 will be required to close lanes on Formosa Road.

Traffic Control and Protection required for the successful completion of this project will be furnished, installed, maintained, removed, measured and paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, (SPECIAL), which price shall include all work as specified herein and all other provisions required by law for the protection and safety of property and individuals in a construction zone.

### **CRACK FILLING WITH BACKER ROD**

This work shall be done according to Section 451 of the “Standard Specifications for Road and Bridge Construction” except “Hot Rod” or preapproved equal as backer rod material.

## STATUS OF UTILITIES TO BE ADJUSTED

<u>NAME AND ADDRESS OF UTILITY</u>	<u>TYPE</u>	<u>LOCATION</u>	<u>ESTIMATED DATE OF COMPLETION</u>
<u>Ameren IP</u> 2600 North Center Maryville, IL 62062	Gas	Gas lines cross the project at various locations. No conflict with gas lines are anticipated.	N/A
	Electric	Electric lines cross the project at various locations. No conflict with electric lines are anticipated.	N/A
<u>AT&amp;T</u> 150 West Division St Maryville, IL 62062	Telephone	Telephone communications lines cross the project at various locations. No conflict with telephone lines are anticipated.	N/A
<u>Charter Communications</u> 815 Charter Commons St Town & Country, MO 63017	CATV	Charter communications lines cross the project at various locations. No conflict with communications lines are anticipated.	N/A
<u>Verizon Communications</u> 111 East State St Mascoutah, IL 62258	Fiber Optic	Verizon fiber optic lines cross the project at various locations. No conflict with fiber optic lines are anticipated.	N/A
<u>City of Troy</u> 150 West Division St Maryville, IL 62062	Water	Water lines cross the project at various locations. No conflict with water lines are anticipated.	N/A
	Sewer	Sewer lines cross the project at various locations. No conflict with sewer lines are anticipated.	N/A
<u>Clearwave Communications</u> 6719 IL-4 Mascoutah, IL 62258	Fiber Optic	Clearwave Communications fiber optic lines cross the project at various locations. No conflict with fiber optic lines are anticipated.	N/A

The above represents the best information of the Department and is only included for the convenience of the Contractor. The applicable provisions of Section 102 and Articles 105.07, and 107.20 of the "Standard Specifications for Road and Bridge Construction" shall apply.

If any utility adjustment or removal has not been completed when required by the Contractor's operation, the Contractor should notify the Engineer in writing. A request for an extension of time will be considered to the extent the Contractor's operations were affected.

BDE SPECIAL PROVISIONS  
For the August 4, 2023 and September 22, 2023 Lettings

The following special provisions indicated by a “check mark” are applicable to this contract and will be included by the Project Coordination and Implementation Section of the Bureau of Design & Environment (BDE).

File Name	#		Special Provision Title	Effective	Revised	
	80099	1	<input type="checkbox"/>	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
	80274	2	<input type="checkbox"/>	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
	80192	3	<input checked="" type="checkbox"/>	Automated Flagger Assistance Devices	Jan. 1, 2008	April 1, 2023
	80173	4	<input type="checkbox"/>	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
	80426	5	<input type="checkbox"/>	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	Jan. 1, 2022
	80436	6	<input checked="" type="checkbox"/>	Blended Finely Divided Minerals	April 1, 2021	
*	80241	7	<input type="checkbox"/>	Bridge Demolition Debris	July 1, 2009	
*	50531	8	<input type="checkbox"/>	Building Removal	Sept. 1, 1990	Aug. 1, 2022
*	50261	9	<input type="checkbox"/>	Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
	80449	10	<input type="checkbox"/>	Cement, Type II	Aug. 1, 2023	
	80384	11	<input checked="" type="checkbox"/>	Compensable Delay Costs	June 2, 2017	April 1, 2019
*	80198	12	<input type="checkbox"/>	Completion Date (via calendar days)	April 1, 2008	
*	80199	13	<input type="checkbox"/>	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
	80261	14	<input checked="" type="checkbox"/>	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
	80434	15	<input type="checkbox"/>	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
*	80029	16	<input type="checkbox"/>	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Mar. 2, 2019
	80229	17	<input type="checkbox"/>	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
	80447	18	<input type="checkbox"/>	Grading and Shaping Ditches	Jan. 1, 2023	
	80433	19	<input type="checkbox"/>	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
	80443	20	<input type="checkbox"/>	High Tension Cable Median Barrier Removal	April 1, 2022	
	80446	21	<input type="checkbox"/>	Hot-Mix Asphalt - Longitudinal Joint Sealant	Nov. 1, 2022	Aug. 1, 2023
	80438	22	<input type="checkbox"/>	Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	Sept. 2, 2021
	80045	23	<input type="checkbox"/>	Material Transfer Device	June 15, 1999	Jan. 1, 2022
	80450	24	<input type="checkbox"/>	Mechanically Stabilized Earth Retaining Walls	Aug. 1, 2023	
	80441	25	<input checked="" type="checkbox"/>	Performance Graded Asphalt Binder	Jan. 1, 2023	
	80451	26	<input type="checkbox"/>	Portland Cement Concrete	Aug. 1, 2023	
*	34261	27	<input type="checkbox"/>	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
	80445	28	<input checked="" type="checkbox"/>	Seeding	Nov. 1, 2022	
	80448	29	<input type="checkbox"/>	Source of Supply and Quality Requirements	Jan. 2, 2023	
	80340	30	<input type="checkbox"/>	Speed Display Trailer	April 2, 2014	Jan. 1, 2022
	80127	31	<input type="checkbox"/>	Steel Cost Adjustment	April 2, 2004	Jan. 1, 2022
	80397	32	<input type="checkbox"/>	Subcontractor and DBE Payment Reporting	April 2, 2018	
	80391	33	<input checked="" type="checkbox"/>	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
	80437	34	<input type="checkbox"/>	Submission of Payroll Records	April 1, 2021	Nov. 1, 2022
	80435	35	<input type="checkbox"/>	Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2023
	80410	36	<input type="checkbox"/>	Traffic Spotters	Jan. 1, 2019	
*	20338	37	<input type="checkbox"/>	Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
	80429	38	<input type="checkbox"/>	Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
	80439	39	<input checked="" type="checkbox"/>	Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
	80440	40	<input type="checkbox"/>	Waterproofing Membrane System	Nov. 1, 2021	
	80302	41	<input type="checkbox"/>	Weekly DBE Trucking Reports	June 2, 2012	Nov. 1, 2021
	80427	42	<input type="checkbox"/>	Work Zone Traffic Control Devices	Mar. 2, 2020	
*	80071	43	<input checked="" type="checkbox"/>	Working Days	Jan. 1, 2002	

Highlighted items indicate a new or revised special provision for the letting.

An \* indicates the special provision requires additional information from the designer, which needs to be submitted separately. The Project Coordination and Implementation Section will then include the information in the applicable special provision.



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Automated Flagger Assistance Devices  
Date: January 13, 2023

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This special provision was developed by the Bureau of Safety Programs and Engineering to provide safer working conditions for flaggers by allowing the use of automated flagger assistance devices (AFADs) on two-lane, two-way highways. It has been revised to allow the use of Red/Yellow Lens AFADs, in addition to the STOP/SLOW AFADs that are currently allowed, and to eliminate redundancies with the MUTCD.

This special provision should be used on two-lane highways where two-way traffic will be maintained over one lane of pavement in segments where no sideroads or entrances require deployment of additional flaggers. Applications include rural milling and/or resurfacing projects, bridge maintenance projects, haul road crossings, pavement patching, or other similar projects with slow moving or stationary operations where the use of a flagger is required. AFADs should not be used on projects with numerous intersections where additional flaggers are required to control traffic.

Questions regarding the use of AFADs should be directed to the Bureau of Safety Programs and Engineering.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 28, 2023 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

80192m

## **AUTOMATED FLAGGER ASSISTANCE DEVICES (BDE)**

Effective: January 1, 2008

Revised: April 1, 2023

Description. This work shall consist of furnishing and operating automated flagger assistance devices (AFADs) as part of the work zone traffic control and protection for two-lane highways where two-way traffic is maintained over one lane of pavement in segments where no sideroads or entrances require deployment of additional flaggers. Use of these devices shall be at the option of the Contractor.

Equipment. AFADs shall be the STOP/SLOW or Red/Yellow Lens type mounted on a trailer or moveable cart meeting the requirements of the MUTCD and NCHRP 350 or MASH 2016, Category 4.

General. AFADs shall be placed at each end of the traffic control, where a flagger is shown on the plans. The AFAD shall be setup within five degrees of vertical.

Flagger symbol signs as shown on the plans shall be replaced with "BE PREPARED TO STOP" signs when the AFAD is in operation.

Personal communication devices shall not be used to operate the AFAD.

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

Each AFAD shall be operated by a flagger trained to operate the specific AFAD to be deployed. A minimum of two flaggers shall be on site at all times during operation. Each flagger shall be positioned outside the lane of traffic and near each AFAD's location.

Flagging equipment required for traditional flagging shall be available near each AFAD location in the event of AFAD equipment malfunction/failure.

For nighttime flagging, the AFAD and flagger shall be illuminated according to Article 701.13 of the Standard Specifications.

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

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



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Blended Finely Divided Minerals  
Date: January 8, 2021

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This special provision was developed by the Central Bureau of Materials to allow blended finely divided minerals in concrete mixes according to ASTM C 1697 in an effort to expand options for procuring finely divided minerals.

This special provision should be inserted into contracts involving any type of concrete work. This includes, but is not limited to, cast-in-place, precast, soil modification, cement aggregate mixture (CAM) II, controlled low-strength material (CLSM), and cellular concrete.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 23, 2021 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 8, 2021.

80436m

## **BLENDED FINELY DIVIDED MINERALS (BDE)**

Effective: April 1, 2021

Revise the second paragraph of Article 1010.01 of the Standard Specifications to read:

“Different sources or types of finely divided minerals shall not be mixed or used alternately in the same item of construction, except as a blended finely divided mineral product according to Article 1010.06.”

Add the following article to Section 1010 of the Standard Specifications:

**“1010.06 Blended Finely Divided Minerals.** Blended finely divided minerals shall be the product resulting from the blending or intergrinding of two or three finely divided minerals. Blended finely divided minerals shall be according to ASTM C 1697, except as follows.

- (a) Blending shall be accomplished by mechanically or pneumatically intermixing the constituent finely divided minerals into a uniform mixture that is then discharged into a silo for storage or tanker for transportation.
- (b) The blended finely divided mineral product will be classified according to its predominant constituent or the manufacturer’s designation and shall meet the chemical requirements of its classification. The other finely divided mineral constituent(s) will not be required to conform to their individual standards.”

80436



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Compensable Delay Costs  
Date: January 11, 2019

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This special provision was developed to allow the department to pay for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control when a contract delay meets certain criteria. It has been revised to remove the extended traffic control adjustment equations for completion date contracts and simply refer to Article 109.04

This special provision should be inserted into all contracts.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 26, 2019 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 11, 2019.

80384m

## **COMPENSABLE DELAY COSTS (BDE)**

Effective: June 2, 2017

Revised: April 1, 2019

Revise Article 107.40(b) of the Standard Specifications to read:

“(b) Compensation. Compensation will not be allowed for delays, inconveniences, or damages sustained by the Contractor from conflicts with facilities not meeting the above definition; or if a conflict with a utility in an unanticipated location does not cause a shutdown of the work or a documentable reduction in the rate of progress exceeding the limits set herein. The provisions of Article 104.03 notwithstanding, compensation for delays caused by a utility in an unanticipated location will be paid according to the provisions of this Article governing minor and major delays or reduced rate of production which are defined as follows.

- (1) Minor Delay. A minor delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two hours, but not to exceed two weeks.
- (2) Major Delay. A major delay occurs when the work in conflict with the utility in an unanticipated location is completely stopped for more than two weeks.
- (3) Reduced Rate of Production Delay. A reduced rate of production delay occurs when the rate of production on the work in conflict with the utility in an unanticipated location decreases by more than 25 percent and lasts longer than seven calendar days.”

Revise Article 107.40(c) of the Standard Specifications to read:

“(c) Payment. Payment for Minor, Major, and Reduced Rate of Production Delays will be made as follows.

- (1) Minor Delay. Labor idled which cannot be used on other work will be paid for according to Article 109.04(b)(1) and (2) for the time between start of the delay and the minimum remaining hours in the work shift required by the prevailing practice in the area.

Equipment idled which cannot be used on other work, and which is authorized to standby on the project site by the Engineer, will be paid for according to Article 109.04(b)(4).

- (2) Major Delay. Labor will be the same as for a minor delay.

Equipment will be the same as for a minor delay, except Contractor-owned equipment will be limited to two weeks plus the cost of move-out to either the

Contractor's yard or another job and the cost to re-mobilize, whichever is less. Rental equipment may be paid for longer than two weeks provided the Contractor presents adequate support to the Department (including lease agreement) to show retaining equipment on the job is the most economical course to follow and in the public interest.

- (3) Reduced Rate of Production Delay. The Contractor will be compensated for the reduced productivity for labor and equipment time in excess of the 25 percent threshold for that portion of the delay in excess of seven calendar days. Determination of compensation will be in accordance with Article 104.02, except labor and material additives will not be permitted.

Payment for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be determined according to Article 109.13."

Revise Article 108.04(b) of the Standard Specifications to read:

"(b) No working day will be charged under the following conditions.

- (1) When adverse weather prevents work on the controlling item.
- (2) When job conditions due to recent weather prevent work on the controlling item.
- (3) When conduct or lack of conduct by the Department or its consultants, representatives, officers, agents, or employees; delay by the Department in making the site available; or delay in furnishing any items required to be furnished to the Contractor by the Department prevents work on the controlling item.
- (4) When delays caused by utility or railroad adjustments prevent work on the controlling item.
- (5) When strikes, lock-outs, extraordinary delays in transportation, or inability to procure critical materials prevent work on the controlling item, as long as these delays are not due to any fault of the Contractor.
- (6) When any condition over which the Contractor has no control prevents work on the controlling item."

Revise Article 109.09(f) of the Standard Specifications to read:

"(f) Basis of Payment. After resolution of a claim in favor of the Contractor, any adjustment in time required for the work will be made according to Section 108. Any adjustment in the costs to be paid will be made for direct labor, direct materials, direct equipment, direct jobsite overhead, direct offsite overhead, and other direct costs allowed by the resolution. Adjustments in costs will not be made for interest charges, loss of anticipated profit, undocumented loss of efficiency, home office overhead and unabsorbed overhead

other than as allowed by Article 109.13, lost opportunity, preparation of claim expenses and other consequential indirect costs regardless of method of calculation.

The above Basis of Payment is an essential element of the contract and the claim cost recovery of the Contractor shall be so limited.”

Add the following to Section 109 of the Standard Specifications.

**“109.13 Payment for Contract Delay.** Compensation for escalated material costs, escalated labor costs, extended project overhead, and extended traffic control will be allowed when such costs result from a delay meeting the criteria in the following table.

Contract Type	Cause of Delay	Length of Delay
Working Days	Article 108.04(b)(3) or Article 108.04(b)(4)	No working days have been charged for two consecutive weeks.
Completion Date	Article 108.08(b)(1) or Article 108.08(b)(7)	The Contractor has been granted a minimum two week extension of contract time, according to Article 108.08.

Payment for each of the various costs will be according to the following.

- (a) Escalated Material and/or Labor Costs. When the delay causes work, which would have otherwise been completed, to be done after material and/or labor costs have increased, such increases will be paid. Payment for escalated material costs will be limited to the increased costs substantiated by documentation furnished by the Contractor. Payment for escalated labor costs will be limited to those items in Article 109.04(b)(1) and (2), except the 35 percent and 10 percent additives will not be permitted.
- (b) Extended Project Overhead. For the duration of the delay, payment for extended project overhead will be paid as follows.
  - (1) Direct Jobsite and Offsite Overhead. Payment for documented direct jobsite overhead and documented direct offsite overhead, including onsite supervisory and administrative personnel, will be allowed according to the following table.

Original Contract Amount	Supervisory and Administrative Personnel
Up to \$5,000,000	One Project Superintendent
Over \$ 5,000,000 - up to \$25,000,000	One Project Manager, One Project Superintendent or Engineer, and One Clerk
Over \$25,000,000 - up to \$50,000,000	One Project Manager, One Project Superintendent, One Engineer, and

	One Clerk
Over \$50,000,000	One Project Manager, Two Project Superintendents, One Engineer, and One Clerk

(2) Home Office and Unabsorbed Overhead. Payment for home office and unabsorbed overhead will be calculated as 8 percent of the total delay cost.

(c) Extended Traffic Control. Traffic control required for an extended period of time due to the delay will be paid for according to Article 109.04.

When an extended traffic control adjustment is paid under this provision, an adjusted unit price as provided for in Article 701.20(a) for increase or decrease in the value of work by more than ten percent will not be paid.

Upon payment for a contract delay under this provision, the Contractor shall assign subrogation rights to the Department for the Department's efforts of recovery from any other party for monies paid by the Department as a result of any claim under this provision. The Contractor shall fully cooperate with the Department in its efforts to recover from another party any money paid to the Contractor for delay damages under this provision."



# Illinois Department of Transportation

## Memorandum

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To: All Regional Engineers  
From: Omer M. Osman, P.E. *Omer M. Osman 7/11/14*  
Subject: Special Provision for Construction Air Quality – Diesel Retrofit  
Date: July 25, 2014

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This special provision was developed by the Bureau of Design and Environment and the Bureau of Construction to reduce construction air emissions from older diesel equipment. The cover memo has been revised to change Baldwin Township to Baldwin Precinct in Randolph County.

This special provision should be inserted in all projects within the following counties, townships and precinct; Cook, DuPage, Kane, Lake, McHenry, Will, Jersey, Madison, Monroe, St. Clair, Aux Sable and Goose Lake Township in Grundy County, Oswego Township in Kendall County, and Baldwin Precinct in Randolph County.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the November 7, 2014 and subsequent lettings. The Project Development and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory July 25, 2014.

80261m

## CONSTRUCTION AIR QUALITY – DIESEL RETROFIT (BDE)

Effective: June 1, 2010

Revised: November 1, 2014

The reduction of emissions of particulate matter (PM) for off-road equipment shall be accomplished by installing retrofit emission control devices. The term “equipment” refers to diesel fuel powered devices rated at 50 hp and above, to be used on the jobsite in excess of seven calendar days over the course of the construction period on the jobsite (including rental equipment).

Contractor and subcontractor diesel powered off-road equipment assigned to the contract shall be retrofitted using the phased in approach shown below. Equipment that is of a model year older than the year given for that equipment’s respective horsepower range shall be retrofitted:

Effective Dates	Horsepower Range	Model Year
June 1, 2010 <sup>1/</sup>	600-749	2002
	750 and up	2006
June 1, 2011 <sup>2/</sup>	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006
June 1, 2012 <sup>2/</sup>	50-99	2004
	100-299	2003
	300-599	2001
	600-749	2002
	750 and up	2006

1/ Effective dates apply to Contractor diesel powered off-road equipment assigned to the contract.

2/ Effective dates apply to Contractor and subcontractor diesel powered off-road equipment assigned to the contract.

The retrofit emission control devices shall achieve a minimum PM emission reduction of 50 percent and shall be:

- a) Included on the U.S. Environmental Protection Agency (USEPA) *Verified Retrofit Technology List* (<http://www.epa.gov/cleandiesel/verification/verif-list.htm>), or verified by the California Air Resources Board (CARB) (<http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm>); or
- b) Retrofitted with a non-verified diesel retrofit emission control device if verified retrofit emission control devices are not available for equipment proposed to be used on the project, and if the Contractor has obtained a performance certification from the retrofit

device manufacturer that the emission control device provides a minimum PM emission reduction of 50 percent.

Note: Large cranes (Crawler mounted cranes) which are responsible for critical lift operations are exempt from installing retrofit emission control devices if such devices adversely affect equipment operation.

Diesel powered off-road equipment with engine ratings of 50 hp and above, which are unable to be retrofitted with verified emission control devices or if performance certifications are not available which will achieve a minimum 50 percent PM reduction, may be granted a waiver by the Department if documentation is provided showing good faith efforts were made by the Contractor to retrofit the equipment.

Construction shall not proceed until the Contractor submits a certified list of the diesel powered off-road equipment that will be used, and as necessary, retrofitted with emission control devices. The list(s) shall include (1) the equipment number, type, make, Contractor/rental company name; and (2) the emission control devices make, model, USEPA or CARB verification number, or performance certification from the retrofit device manufacturer. Equipment reported as fitted with emissions control devices shall be made available to the Engineer for visual inspection of the device installation, prior to being used on the jobsite.

The Contractor shall submit an updated list of retrofitted off-road construction equipment as retrofitted equipment changes or comes on to the jobsite. The addition or deletion of any diesel powered equipment shall be included on the updated list.

If any diesel powered off-road equipment is found to be in non-compliance with any portion of this special provision, the Engineer will issue the Contractor a diesel retrofit deficiency deduction.

Any costs associated with retrofitting any diesel powered off-road equipment with emission control devices shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall not be grounds for a claim.

### **Diesel Retrofit Deficiency Deduction**

When the Engineer determines that a diesel retrofit deficiency exists, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

The deficiency will be based on lack of diesel retrofit emissions control.

If a Contractor accumulates three diesel retrofit deficiency deductions for the same piece of equipment in a contract period, the Contractor will be shutdown until the deficiency is corrected.

Such a shutdown will not be grounds for any extension of the contract time, waiver of penalties, or be grounds for any claim.

80261



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Performance Graded Asphalt Binder  
Date: September 30, 2022

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This special provision was developed by the Central Bureau of Materials to allow additional modifiers in performance graded (PG) asphalt binder. Ground tire rubber and softeners were added, as well as criteria to ensure long-term aging performance of our PG asphalt binders with and without modification.

This special provision should be inserted into contracts containing the pay item BITUMINOUS MATERIALS (TACK COAT), or any of the following types of work.

- Section 312 Stabilized Subbase
- Section 355 HMA Base Course
- Section 356 HMA Base Course Widening
- Section 404 Micro-Surfacing and Slurry Sealing
- Section 405 Cape Seal
- Section 406 HMA Binder and Surface Course
- Section 407 HMA Pavement (Full-Depth)
- Section 442 Pavement Patching
- Section 507 Timber Structures
- Section 581 Waterproofing Membrane System
- BDE special provision "Ultra-Thin Bonded Wearing Course"
- Local Roads & Streets Recurring Special Provision "Reflective Crack Control Treatment"

The districts should include the BDE Check Sheet marked with the applicable special provisions for the January 20, 2023 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

80441m

## PERFORMANCE GRADED ASPHALT BINDER (BDE)

Effective: January 1, 2023

Revise Article 1032.05 of the Standard Specifications to read:

**“1032.05 Performance Graded Asphalt Binder.** These materials will be accepted according to the Bureau of Materials Policy Memorandum, “Performance Graded Asphalt Binder Qualification Procedure.” The Department will maintain a qualified producer list. These materials shall be free from water and shall not foam when heated to any temperature below the actual flash point. Air blown asphalt, recycle engine oil bottoms (ReOB), and polyphosphoric acid (PPA) modification shall not be used.

When requested, producers shall provide the Engineer with viscosity/temperature relationships for the performance graded asphalt binders delivered and incorporated in the work.

- (a) Performance Graded (PG) Asphalt Binder. The asphalt binder shall meet the requirements of AASHTO M 320, Table 1 “Standard Specification for Performance Graded Asphalt Binder” for the grade shown on the plans and the following.

Test	Parameter
Small Strain Parameter (AASHTO PP 113) BBR, $\Delta T_c$ , 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	-5 °C min.

- (b) Modified Performance Graded (PG) Asphalt Binder. The asphalt binder shall meet the requirements of AASHTO M 320, Table 1 “Standard Specification for Performance Graded Asphalt Binder” for the grade shown on the plans.

Asphalt binder modification shall be performed at the source, as defined in the Bureau of Materials Policy Memorandum, “Performance Graded Asphalt Binder Qualification Procedure.”

Modified asphalt binder shall be safe to handle at asphalt binder production and storage temperatures or HMA construction temperatures. Safety Data Sheets (SDS) shall be provided for all asphalt modifiers.

- (1) Polymer Modification (SB/SBS or SBR). Elastomers shall be added to the base asphalt binder to achieve the specified performance grade and shall be either a styrene-butadiene diblock, triblock copolymer without oil extension, or a styrene-butadiene rubber. The polymer modified asphalt binder shall be smooth, homogeneous, and be according to the requirements shown in Table 1 or 2 for the grade shown on the plans.

Table 1 - Requirements for Styrene-Butadiene Copolymer (SB/SBS) Modified Asphalt Binders		
Test	Asphalt Grade SB/SBS PG 64-28 SB/SBS PG 70-22	Asphalt Grade SB/SBS PG 64-34 SB/SBS PG 70-28 SB/SBS PG 76-22 SB/SBS PG 76-28
Separation of Polymer ITP, "Separation of Polymer from Asphalt Binder" Difference in °F (°C) of the softening point between top and bottom portions	4 (2) max.	4 (2) max.
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)		
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	60 min.	70 min.

Table 2 - Requirements for Styrene-Butadiene Rubber (SBR) Modified Asphalt Binders		
Test	Asphalt Grade SBR PG 64-28 SBR PG 70-22	Asphalt Grade SB/SBS PG 64-34 SB/SBS PG 70-28 SBR PG 76-22 SBR PG 76-28
Separation of Polymer ITP, "Separation of Polymer from Asphalt Binder" Difference in °F (°C) of the softening point between top and bottom portions	4 (2) max.	4 (2) max.
Toughness ASTM D 5801, 77 °F (25 °C), 20 in./min. (500 mm/min.), in.-lbs (N-m)	110 (12.5) min.	110 (12.5) min.
Tenacity ASTM D 5801, 77 °F (25 °C), 20 in./min. (500 mm/min.), in.-lbs (N-m)	75 (8.5) min.	75 (8.5) min.
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)		
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	40 min.	50 min.

- (2) Ground Tire Rubber (GTR) Modification. GTR modification is the addition of recycled ground tire rubber to liquid asphalt binder to achieve the specified performance grade. GTR shall be produced from processing automobile and/or truck tires by the ambient

grinding method or micronizing through a cryogenic process. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall not contain free metal particles, moisture that would cause foaming of the asphalt, or other foreign materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois Modified AASHTO T 27 “Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates” or AASHTO PP 74 “Standard Practice for Determination of Size and Shape of Glass Beads Used in Traffic Markings by Means of Computerized Optical Method”, a 50 g sample of the GTR shall conform to the following gradation requirements.

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

GTR modified asphalt binder shall be tested for rotational viscosity according to AASHTO T 316 using spindle S27. GTR modified asphalt binder shall be tested for original dynamic shear and RTFO dynamic shear according to AASHTO T 315 using a gap of 2 mm.

The GTR modified asphalt binder shall meet the requirements of Table 3.

Table 3 - Requirements for Ground Tire Rubber (GTR) Modified Asphalt Binders		
Test	Asphalt Grade GTR PG 64-28 GTR PG 70-22	Asphalt Grade GTR PG 76-22 GTR PG 76-28 GTR PG 70-28
TESTS ON RESIDUE FROM ROLLING THIN FILM OVEN TEST (AASHTO T 240)		
Elastic Recovery ASTM D 6084, Procedure A, 77 °F (25 °C), 100 mm elongation, %	60 min.	70 min.

- (3) Softener Modification (SM). Softener modification is the addition of organic compounds, such as engineered flux, bio-oil blends, modified vegetable oils, glycol amines, and fatty acid derivatives, to the base asphalt binder to achieve the specified performance grade. Softeners shall be dissolved, dispersed, or reacted in the asphalt binder to enhance its performance and shall remain compatible with the asphalt binder with no separation. Softeners shall not be added to modified PG asphalt binder as defined in Articles 1032.05(b)(1) or 1032.05(b)(2).

An Attenuated Total Reflectance-Fourier Transform Infrared spectrum (ATR-FTIR) shall be collected for both the softening compound as well as the softener modified

asphalt binder at the dose intended for qualification. The ATR-FTIR spectra shall be collected on unaged softener modified binder, 20-hour Pressurized Aging Vessel (PAV) aged softener modified binder, and 40-hour PAV aged softener modified binder. The ATR-FTIR shall be collected in accordance with Illinois Test Procedure 601. The electronic files spectral files (in one of the following extensions or equivalent: \*.SPA, \*.SPG, \*.IRD, \*.IFG, \*.CSV, \*.SP, \*.IRS, \*.GAML, \*. [0-9], \*.IGM, \*.ABS, \*.DRT, \*.SBM, \*.RAS) shall be submitted to the Central Bureau of Materials.

Softener modified asphalt binders shall meet the requirements in Table 4.

Test	Asphalt Grade	
	SM PG 46-28	SM PG 46-34
	SM PG 52-28	SM PG 52-34
	SM PG 58-22	SM PG 58-28
	SM PG 64-22	
Small Strain Parameter (AASHTO PP 113) BBR, $\Delta T_c$ , 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	-5°C min.	
Large Strain Parameter (Illinois Modified AASHTO T 391) DSR/LAS Fatigue Property, $\Delta G^* _{peak}$ , 40 hrs PAV (40 hrs continuous or 2 PAV at 20 hrs)	≥ 54 %	

The following grades may be specified as tack coats.

Asphalt Grade	Use
PG 58-22, PG 58-28, PG 64-22	Tack Coat"

Revise Article 1031.06(c)(1) and 1031.06(c)(2) of the Standard Specifications to read:

“(1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin ABR shall not exceed the amounts listed in the following table.

Ndesign	Binder	Surface	Polymer Modified Binder or Surface <sup>3/</sup>
30	30	30	10
50	25	15	10
70	15	10	10
90	10	10	10

1/ For Low ESAL HMA shoulder and stabilized subbase, the RAP/RAS ABR shall not exceed 50 percent of the mixture.

- 2/ When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).
  - 3/ The maximum ABR percentages for ground tire rubber (GTR) modified mixes shall be equivalent to the percentages specified for SBS/SBR polymer modified mixes.
- (2) FRAP/RAS. When FRAP is used alone or FRAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the following table.

HMA Mixtures - FRAP/RAS Maximum ABR % <sup>1/2/</sup>			
Ndesign	Binder	Surface	Polymer Modified Binder or Surface <sup>3/</sup>
30	55	45	15
50	45	40	15
70	45	35	15
90	45	35	15
SMA	--	--	25
IL-4.75	--	--	35

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the FRAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When FRAP/RAS ABR exceeds 20 percent for all mixes, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG 64-22 to be reduced to a PG 58-28).
- 3/ The maximum ABR percentages for GTR modified mixes shall be equivalent to the percentages specified for SBS/SBR polymer modified mixes.”

Add the following to the end of Note 2 of Article 1030.03 of the Standard Specifications.

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



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston *Jack A. Elston*  
Subject: Special Provision for Seeding  
Date: August 5, 2022

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This special provision was developed to update the seeding mixtures by eliminating seed varieties no longer available and allowing alternative fescues. It was also revised to replace the seeding dates with temperature requirements and establish a consistent period of establishment.

This special provision should be inserted into all contracts with SEEDING or INTERSEEDING.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the November 18, 2022 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

80445m

## **SEEDING (BDE)**

Effective: November 1, 2022

Revise Article 250.07 of the Standard Specifications to read:

**“250.07 Seeding Mixtures.** The classes of seeding mixtures and combinations of mixtures will be designated in the plans.

When an area is to be seeded with two or more seeding classes, those mixtures shall be applied separately on the designated area within a seven day period. Seeding shall occur prior to placement of mulch cover. A Class 7 mixture can be applied at any time prior to applying any seeding class or added to them and applied at the same time.

TABLE 1 - SEEDING MIXTURES

Class - Type	Seeds	lb/acre (kg/hectare)
1 Lawn Mixture 1/	Kentucky Bluegrass	100 (110)
	Perennial Ryegrass	60 (70)
	<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	40 (50)
1A Salt Tolerant Lawn Mixture 1/	Kentucky Bluegrass	60 (70)
	Perennial Ryegrass	20 (20)
	<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	20 (20)
	<i>Festuca brevipilla</i> (Hard Fescue)	20 (20)
	<i>Puccinellia distans</i> (Fulfs Saltgrass or Salty Alkaligrass)	60 (70)
1B Low Maintenance Lawn Mixture 1/	Turf-Type Fine Fescue 3/	150 (170)
	Perennial Ryegrass	20 (20)
	Red Top	10 (10)
	<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	20 (20)
2 Roadside Mixture 1/	<i>Lolium arundinaceum</i> (Tall Fescue)	100 (110)
	Perennial Ryegrass	50 (55)
	<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	40 (50)
	Red Top	10 (10)
2A Salt Tolerant Roadside Mixture 1/	<i>Lolium arundinaceum</i> (Tall Fescue)	60 (70)
	Perennial Ryegrass	20 (20)
	<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	30 (20)
	<i>Festuca brevipilla</i> (Hard Fescue)	30 (20)
	<i>Puccinellia distans</i> (Fulfs Saltgrass or Salty Alkaligrass)	60 (70)
3 Northern Illinois Slope Mixture 1/	<i>Elymus canadensis</i> (Canada Wild Rye) 5/	5 (5)
	Perennial Ryegrass	20 (20)
	Alsike Clover 4/	5 (5)
	<i>Desmanthus illinoensis</i> (Illinois Bundleflower) 4/ 5/	2 (2)
	<i>Schizachyrium scoparium</i> (Little Bluestem) 5/	12 (12)
	<i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/	10 (10)
	<i>Puccinellia distans</i> (Fulfs Saltgrass or Salty Alkaligrass)	30 (35)
	Oats, Spring	50 (55)
	Slender Wheat Grass 5/	15 (15)
	Buffalo Grass 5/ 7/	5 (5)
	3A Southern Illinois Slope Mixture 1/	Perennial Ryegrass
<i>Elymus canadensis</i> (Canada Wild Rye) 5/		20 (20)
<i>Panicum virgatum</i> (Switchgrass) 5/		10 (10)
<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/		12 (12)
<i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/		10 (10)
<i>Dalea candida</i> (White Prairie Clover) 4/ 5/		5 (5)
<i>Rudbeckia hirta</i> (Black-Eyed Susan) 5/		5 (5)
Oats, Spring		50 (55)

Class – Type	Seeds	lb/acre (kg/hectare)
4 Native Grass 2/ 6/	<i>Andropogon gerardi</i> (Big Blue Stem) 5/	4 (4)
	<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/	5 (5)
	<i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/	5 (5)
	<i>Elymus canadensis</i> (Canada Wild Rye) 5/	1 (1)
	<i>Panicum virgatum</i> (Switch Grass) 5/	1 (1)
	<i>Sorghastrum nutans</i> (Indian Grass) 5/	2 (2)
	Annual Ryegrass	25 (25)
	Oats, Spring	25 (25)
	Perennial Ryegrass	15 (15)
	4A Low Profile Native Grass 2/ 6/	<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/
<i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/		5 (5)
<i>Elymus canadensis</i> (Canada Wild Rye) 5/		1 (1)
<i>Sporobolus heterolepis</i> (Prairie Dropseed) 5/		0.5 (0.5)
Annual Ryegrass		25 (25)
Oats, Spring		25 (25)
Perennial Ryegrass		15 (15)
4B Wetland Grass and Sedge Mixture 2/ 6/	Annual Ryegrass	25 (25)
	Oats, Spring	25 (25)
	Wetland Grasses (species below) 5/	6 (6)
<u>Species:</u>		<u>% By Weight</u>
<i>Calamagrostis canadensis</i> (Blue Joint Grass)		12
<i>Carex lacustris</i> (Lake-Bank Sedge)		6
<i>Carex slipata</i> (Awl-Fruited Sedge)		6
<i>Carex stricta</i> (Tussock Sedge)		6
<i>Carex vulpinoidea</i> (Fox Sedge)		6
<i>Eleocharis acicularis</i> (Needle Spike Rush)		3
<i>Eleocharis obtusa</i> (Blunt Spike Rush)		3
<i>Glyceria striata</i> (Fowl Manna Grass)		14
<i>Juncus effusus</i> (Common Rush)		6
<i>Juncus tenuis</i> (Slender Rush)		6
<i>Juncus torreyi</i> (Torrey's Rush)		6
<i>Leersia oryzoides</i> (Rice Cut Grass)		10
<i>Scirpus acutus</i> (Hard-Stemmed Bulrush)		3
<i>Scirpus atrovirens</i> (Dark Green Rush)		3
<i>Bolboschoenus fluviatilis</i> (River Bulrush)		3
<i>Schoenoplectus tabernaemontani</i> (Softstem Bulrush)		3
<i>Spartina pectinata</i> (Cord Grass)		4

Class – Type	Seeds	lb/acre (kg/hectare)	
5	Forb with Annuals Mixture 2/ 5/ 6/	Annuals Mixture (Below) Forb Mixture (Below)	1 (1) 10 (10)
Annuals Mixture - Mixture not exceeding 25 % by weight of any one species, of the following:			
<i>Coreopsis lanceolata</i> (Sand Coreopsis) <i>Leucanthemum maximum</i> (Shasta Daisy) <i>Gaillardia pulchella</i> (Blanket Flower) <i>Ratibida columnifera</i> (Prairie Coneflower) <i>Rudbeckia hirta</i> (Black-Eyed Susan)			
Forb Mixture - Mixture not exceeding 5 % by weight PLS of any one species, of the following:			
<i>Amorpha canescens</i> (Lead Plant) 4/ <i>Anemone cylindrica</i> (Thimble Weed) <i>Asclepias tuberosa</i> (Butterfly Weed) <i>Aster azureus</i> (Sky Blue Aster) <i>Symphotrichum leave</i> (Smooth Aster) <i>Aster novae-angliae</i> (New England Aster) <i>Baptisia leucantha</i> (White Wild Indigo) 4/ <i>Coreopsis palmata</i> (Prairie Coreopsis) <i>Echinacea pallida</i> (Pale Purple Coneflower) <i>Eryngium yuccifolium</i> (Rattlesnake Master) <i>Helianthus mollis</i> (Downy Sunflower) <i>Heliopsis helianthoides</i> (Ox-Eye) <i>Liatris aspera</i> (Rough Blazing Star) <i>Liatris pycnostachya</i> (Prairie Blazing Star) <i>Monarda fistulosa</i> (Prairie Bergamot) <i>Parthenium integrifolium</i> (Wild Quinine) <i>Dalea candida</i> (White Prairie Clover) 4/ <i>Dalea purpurea</i> (Purple Prairie Clover) 4/ <i>Physostegia virginiana</i> (False Dragonhead) <i>Potentilla arguta</i> (Prairie Cinquefoil) <i>Ratibida pinnata</i> (Yellow Coneflower) <i>Rudbeckia subtomentosa</i> (Fragrant Coneflower) <i>Silphium laciniatum</i> (Compass Plant) <i>Silphium terebinthinaceum</i> (Prairie Dock) <i>Oligoneuron rigidum</i> (Rigid Goldenrod) <i>Tradescantia ohiensis</i> (Spiderwort) <i>Veronicastrum virginicum</i> (Culver's Root)			

Class – Type	Seeds	lb/acre (kg/hectare)
5A Large Flower Native Forb Mixture 2/ 5/ 6/	Forb Mixture (see below)	5 (5)
	<u>Species:</u>	<u>% By Weight</u>
	<i>Aster novae-angliae</i> (New England Aster)	5
	<i>Echinacea pallida</i> (Pale Purple Coneflower)	10
	<i>Helianthus mollis</i> (Downy Sunflower)	10
	<i>Heliopsis helianthoides</i> (Ox-Eye)	10
	<i>Liatris pycnostachya</i> (Prairie Blazing Star)	10
	<i>Ratibida pinnata</i> (Yellow Coneflower)	5
	<i>Rudbeckia hirta</i> (Black-Eyed Susan)	10
	<i>Silphium laciniatum</i> (Compass Plant)	10
	<i>Silphium terebinthinaceum</i> (Prairie Dock)	20
	<i>Oligoneuron rigidum</i> (Rigid Goldenrod)	10
5B Wetland Forb 2/ 5/ 6/	Forb Mixture (see below)	2 (2)
	<u>Species:</u>	<u>% By Weight</u>
	<i>Acorus calamus</i> (Sweet Flag)	3
	<i>Angelica atropurpurea</i> (Angelica)	6
	<i>Asclepias incarnata</i> (Swamp Milkweed)	2
	<i>Aster puniceus</i> (Purple Stemmed Aster)	10
	<i>Bidens cernua</i> (Beggarticks)	7
	<i>Eutrochium maculatum</i> (Spotted Joe Pye Weed)	7
	<i>Eupatorium perfoliatum</i> (Boneset)	7
	<i>Helenium autumnale</i> (Autumn Sneezeweed)	2
	<i>Iris virginica shrevei</i> (Blue Flag Iris)	2
	<i>Lobelia cardinalis</i> (Cardinal Flower)	5
	<i>Lobelia siphilitica</i> (Great Blue Lobelia)	5
	<i>Lythrum alatum</i> (Winged Loosestrife)	2
	<i>Physostegia virginiana</i> (False Dragonhead)	5
	<i>Persicaria pensylvanica</i> (Pennsylvania Smartweed)	10
	<i>Persicaria lapathifolia</i> (Curlytop Knotweed)	10
	<i>Pycnanthemum virginianum</i> (Mountain Mint)	5
	<i>Rudbeckia laciniata</i> (Cut-leaf Coneflower)	5
	<i>Oligoneuron riddellii</i> (Riddell Goldenrod)	2
	<i>Sparganium eurycarpum</i> (Giant Burreed)	5
6 Conservation Mixture 2/ 6/	<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/ <i>Elymus canadensis</i> (Canada Wild Rye) 5/ Buffalo Grass 5/ 7/ Vernal Alfalfa 4/ Oats, Spring	5 (5) 2 (2) 5 (5) 15 (15) 48 (55)
6A Salt Tolerant Conservation Mixture 2/ 6/	<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/ <i>Elymus canadensis</i> (Canada Wild Rye) 5/ Buffalo Grass 5/ 7/ Vernal Alfalfa 4/ Oats, Spring <i>Puccinellia distans</i> (Fulfs Saltgrass or Salty Alkaligrass)	5 (5) 2 (2) 5 (5) 15 (15) 48 (55) 20 (20)
7 Temporary Turf Cover Mixture	Perennial Ryegrass Oats, Spring	50 (55) 64 (70)

Notes:

- 1/ Seeding shall be performed when the ambient temperature has been between 45 °F (7 °C) and 80 °F (27 °C) for a minimum of seven (7) consecutive days and is forecasted to be the same for the next five (5) days according to the National Weather Service.
- 2/ Seeding shall be performed in late fall through spring beginning when the ambient temperature has been below 45 °F (7 °C) for a minimum of seven (7) consecutive days and ending when the ambient temperature exceeds 80 °F (27 °C) according to the National Weather Service.
- 3/ Specific variety as shown in the plans or approved by the Engineer.
- 4/ Inoculation required.
- 5/ Pure Live Seed (PLS) shall be used.
- 6/ Fertilizer shall not be used.
- 7/ Seed shall be primed with  $\text{KNO}_3$  to break dormancy and dyed to indicate such.

Seeding will be inspected after a period of establishment. The period of establishment shall be six (6) months minimum, but not to exceed nine (9) months. After the period of establishment, areas not exhibiting 75 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost to the Department.”

80445



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Subcontractor Mobilization Payments  
Date: January 11, 2019

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This special provision was developed by the Bureau of Construction and Office of Chief Council to comply with Illinois Procurement Code 30 ILCS 500/30-50. It has been revised to shorten the timing of the mobilization payment from “at least 14 days” to “at least 7 days” prior to the subcontractor starting work

This special provision should be inserted into all contracts.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 26, 2019 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

This special provision will be available on the transfer directory January 11, 2019.

80391m

## **SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)**

Effective: November 2, 2017

Revised: April 1, 2019

Replace the second paragraph of Article 109.12 of the Standard Specifications with the following:

“This mobilization payment shall be made at least seven days prior to the subcontractor starting work. The amount paid shall be at the following percentage of the amount of the subcontract reported on form BC 260A submitted for the approval of the subcontractor’s work.

Value of Subcontract Reported on Form BC 260A	Mobilization Percentage
Less than \$10,000	25%
\$10,000 to less than \$20,000	20%
\$20,000 to less than \$40,000	18%
\$40,000 to less than \$60,000	16%
\$60,000 to less than \$80,000	14%
\$80,000 to less than \$100,000	12%
\$100,000 to less than \$250,000	10%
\$250,000 to less than \$500,000	9%
\$500,000 to \$750,000	8%
Over \$750,000	7%”

80391



# Illinois Department of Transportation

## Memorandum

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To: Regional Engineers  
From: Jack A. Elston   
Subject: Special Provision for Vehicle and Equipment Warning Lights  
Date: August 5, 2022

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This special provision was developed to improve work zone safety by requiring the Contractor's vehicles and equipment to be equipped with warning lights.

This special provision should be inserted into contracts with closed lane construction. It should not be used with moving operations only contracts.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the November 18, 2022 and subsequent lettings. The Project Coordination and Implementation Section will include a copy in the contract.

80439m

## **VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)**

Effective: November 1, 2021

Revised: November 1, 2022

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

“The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. In accordance with 625 ILCS 5/12-215, the lights may only be in operation while the vehicle or equipment is engaged in construction operations.”

80439

All District Engineers, Walter S. Kos & Miguel d'Escoto

Michael L. Hine

Special Provision for Working Days

January 11, 2002

This special provision was developed by the Bureau of Design & Environment as a result of changes to the letting proposal.

It should be inserted into all working day contracts.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 26, 2002 and subsequent lettings. The Project Development and Implementation Section will include the paper copy in the contract.

This special provision will be transferred through the E-mail System to the district offices on January 11, 2002.

80071m

**WORKING DAYS (BDE)**

Effective: January 1, 2002

The Contractor shall complete the work within **60** working days.

80071

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

SPECIAL PROVISION  
FOR  
INSURANCE

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

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

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

City of Troy, Illinois

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Oates Associates, Inc.

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

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

SPECIAL PROVISION  
FOR  
EQUIPMENT RENTAL RATES

Effective: January 1, 2012

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

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

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

State of Illinois  
DEPARTMENT OF TRANSPORTATION  
Bureau of Local Roads and Streets

SPECIAL PROVISION  
FOR  
BITUMINOUS SURFACE TREATMENT (CLASS A-1, A-2, A-3) FOR LOCAL LETTINGS

Effective: June 16, 2017  
Revised:

All references to Sections and Articles in this Special Provision shall be construed to mean specific Sections and Articles in the Standard Specifications for Road and Bridge Construction adopted by the Department of Transportation.

Revise Articles 403.15 and 403.16 to read:

**403.15 Method of Measurement.** Measurement of the volume of asphalt binders, emulsified asphalts, rapid curing liquid asphalt, medium curing liquid asphalts, slow curing liquid asphalts, asphalt fillers, and road oils will be based on the volume of the material at 60 °F (15.6 °C). Volumes measured at higher or lower temperatures will be corrected to the volume at 60 °F (15.6 °C) using the Standard ASTM-IP Petroleum Measurement Tables, ASTM D 1250.

Payment will not be made for bituminous materials in excess of 105 percent of the amount specified by the Engineer.

When bituminous materials are delivered by tank truck from a refinery or from a storage tank, a weight ticket for each truck load shall be furnished to the inspector. The ticket shall show the weight of the empty truck (the truck being weighed each time before it is loaded), the weight of the loaded truck, and the net weight of the bituminous material. If the material is being measured for payment by the gallon (liter), the specific gravity at 60 °F/60 °F (15.6 °C/15.6 °C) of the bituminous material in the tank truck and the number of gallons (liters) at 60 °F (15.6 °C) shall be shown on the weight ticket.

Cover Coat Aggregate and Seal Coat Aggregate will be measured in tons (metric tons) according to the requirements of Article 311.08(b), except that measurement for payment will not be made for aggregate in excess of 110 percent of the amount specified by the Engineer.

**403.16 Basis of Payment.** This work will be paid for at the contract unit price per gallon (liter) for BITUMINOUS MATERIALS (PRIME COAT), BITUMINOUS MATERIALS (COVER AND SEAL COATS), and POLYMERIZED BITUMINOUS MATERIALS (COVER AND SEAL COATS); or at the contract unit price per ton (metric ton) for BITUMINOUS MATERIALS (PRIME COAT), BITUMINOUS MATERIALS (COVER AND SEAL COATS), and POLYMERIZED BITUMINOUS MATERIALS (COVER AND SEAL COATS); and per ton (metric ton) for COVER COAT AGGREGATE and SEAL COAT AGGREGATE.

When provided as a payment item, the preparation of the base or existing surface will be measured and paid for as specified in Section 358. If not provided as a payment item, preparation of base or existing surface shall be considered as included in the contract unit price(s) for the bituminous surface treatment.

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets  
SPECIAL PROVISION  
FOR  
CONSTRUCTION AND MAINTENANCE SIGNS

Effective: January 1, 2004  
Revised: June 1, 2007

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

701.14. Signs. Add the following paragraph to Article 701.14:

All warning signs shall have minimum dimensions of 1200 mm x 1200 mm (48" x 48") and have a black legend on a fluorescent orange reflectorized background, meeting, as a minimum, Type AP reflectivity requirements of Table 1091-2 in Article 1091.02.

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

SPECIAL PROVISION  
FOR  
COARSE AGGREGATE FOR BITUMINOUS SURFACE TREATMENT

Effective: January 1, 2002  
Revised: January 1, 2007

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

This work shall be performed according to Section 403 and the following:

1004.01 Materials. Add the following to the gradation tables in subparagraph (c) of Article 1004.01:

Coarse Aggregate Gradations					
Sieve Size					
Percent Passing					
Grad No.	12.5 mm ½ in.	9.5 mm 3/8 in.	4.75 mm #4	2.36 mm #8	1.18 mm #16
CA 20	100	92 ± 8	20 ± 10	5 ± 5	3 ± 3

1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). Revise the first line of the table in subparagraph (c) of Article 1004.03 to read:

Use	Size/Application	Gradation No.
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 20 <sup>3/</sup>

Add the following note to the end of subparagraph (c) of Article 1004.03:

"3/ CA16 or CM16 produced under the AGCS Program with a master band may be used if it meets the gradation requirements specified for CA20 in Article 1004.01(c)"

Amend the Aggregate Gradation Control System (AGCS) Policy Memorandum to add the following:

"CA 20 shall be produced under the AGCS program. However, the gradation bands may not be adjusted."

State of Illinois  
DEPARTMENT OF TRANSPORTATION  
Bureau of Local Roads & Streets  
SPECIAL PROVISION  
FOR  
LOCAL QUALITY ASSURANCE/ QUALITY MANAGEMENT QC/QA  
Effective: January 1, 2022

Replace the first five paragraphs of Article 1030.06 of the Standard Specifications with the following:

**“1030.06 Quality Management Program.** The Quality Management Program (QMP) will be Quality Control / Quality Assurance (QC/QA) according to the following.”

Delete Article 1030.06(d)(1) of the Standard Specifications.

Revise Article 1030.09(g)(3) of the Standard Specifications to read:

“(3) If core testing is the density verification method, the Contractor shall provide personnel and equipment to collect density verification cores for the Engineer. Core locations will be determined by the Engineer following the document “Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations” at density verification intervals defined in Article 1030.09(b). After the Engineer identifies a density verification location and prior to opening to traffic, the Contractor shall cut a 4 in. (100 mm) diameter core. With the approval of the Engineer, the cores may be cut at a later time.”

Revise Article 1030.09(h)(2) of the Standard Specifications to read:

“(2) After final rolling and prior to paving subsequent lifts, the Engineer will identify the random density verification test locations. Cores or nuclear density gauge testing will be used for density verification. The method used for density verification will be as selected below.

Density Verification Method	
<input type="checkbox"/>	Cores
<input checked="" type="checkbox"/>	Nuclear Density Gauge (Correlated when paving $\geq$ 3,000 tons per mixture)

Density verification test locations will be determined according to the document “Hot-Mix Asphalt QC/QA Procedure for Determining Random Density Locations”. The density testing interval for paving wider than or equal to 3 ft (1 m) will be 0.5 miles (800 m) for lift thicknesses of 3 in. (75 mm) or less and 0.2 miles (320 m) for lift thicknesses greater than 3 in. (75 mm). The density testing interval for paving less than 3 ft (1 m) wide will be 1 mile (1,600 m). If a day’s paving will be less than the prescribed density testing interval, the length of the day’s paving will be the interval for that day. The density testing interval for mixtures used for patching will be 50 patches with a minimum of one test per mixture per project.

If core testing is the density verification method, the Engineer will witness the Contractor coring, and secure and take possession of all density samples at the

density verification locations. The Engineer will test the cores collected by the Contractor for density according to Illinois Modified AASHTO T 166 or AASHTO T 275.

If nuclear density gauge testing is the density verification method, the Engineer will conduct nuclear density gauge tests. The Engineer will follow the density testing procedure detailed in the document "Illinois Modified ASTM D 2950, Standard Test Method for Density of Bituminous Concrete In-Place by Nuclear Method".

A density verification test will be the result of a single core or the average of the nuclear density tests at one location. The results of each density test must be within acceptable limits. The Engineer will promptly notify the Contractor of observed deficiencies."

Revise the seventh paragraph and all subsequent paragraphs in Section D. of the document "Hot-Mix Asphalt QC/QA Initial Daily Plant and Random Samples" to read:

"Mixtures shall be sampled from the truck at the plant by the Contractor following the same procedure used to collect QC mixture samples (Section A). This process will be witnessed by the Engineer who will take custody of the verification sample. Each sample bag with a verification mixture sample will be secured by the Engineer using a locking ID tag. Sample boxes containing the verification mixture sample will be sealed/taped by the Engineer using a security ID label."

State of Illinois  
DEPARTMENT OF TRANSPORTATION  
Bureau of Local Roads & Streets

SPECIAL PROVISION  
FOR  
EMULSIFIED ASPHALTS

Effective: January 1, 2007  
Revised: February 7, 2008

All references to Sections and Articles in this Special Provision shall be construed to mean specific Sections and Articles in the Standard Specifications for Road and Bridge Construction adopted by the Department of Transportation.

Replace the table after Note 2 in Article 403.02 with the following:

Type of Construction	Bituminous Materials Recommended for Weather Conditions Indicated	
	Warm [15 °C to 30 °C]* [(60 °F to 85 °F)]*	Hot [30 °C Plus]* [(85 °F Plus)]*
Prime	MC-30, PEP	MC-30, PEP
Cover Coat and Seal Coat	RS-2, CRS-2, RC-800, RC-3000, MC-800, MC-3000, SC-3000, HFE-90, HFE-150, HFE-300, HFRS-2, PEA**	RS-2, CRS-2, RC-800, RC-3000, MC-800, MC-3000, SC-3000, PG46-28, PG52-28, HFE-90, HFE-150, HFE-300, HFRS-2, PEA**

\* Temperature of the air in the shade at the time of application.

\*\* PEA is only allowed on roads with low traffic volumes

Replace the table after Note 2 in Article 406.02 with the following:

Type of Construction	Bituminous Materials Recommended
Prime (tack) on Brick, Concrete, or Bituminous Bases (Note 3)	SS-1, SS-1h, CSS-1, CSS-1h, HFE-90, RC-70
Prime on Aggregate Bases (Note 4)	MC-30, PEP
Mixture for Cracks, Joints, and Flangeways	PG58-22, PG64-22

Note 3. When emulsified asphalts are used, they shall be diluted with an equal volume of potable water. HFE emulsions shall be diluted by the manufacturer. The diluted material shall be thoroughly agitated within 24 hours of application and show no separation of water and emulsion. The diluted material shall not be returned to an approved emulsion storage tank.

Note 4. Preparation of the bituminous PEP shall be as specified in Article 403.05.

Replace the table in Article 1032.04 with the following:

Spraying Application Temperature Ranges		
Type and Grade of Bituminous Material	Temperature Ranges	
	°F min. - max.	°C min. - max.
PEP	60 - 130	15 - 55
PEA	140 - 190	60 - 88
MC-30	85 - 190	30 - 90
MC-70, RC-70, SC-70	120 - 225	50 - 105
MC-250, SC-250	165 - 270	75 - 130
MC-800, SC-800	200 - 305	95 - 150
MC-3000, SC-3000	230 - 345	110 - 175
PG46-28	275 - 385	135 - 195
PG52-28	285 - 395	140 - 200
RS-2, CRS-2	110 - 160	45 - 70
SS-1, SS-1h, CSS-1, CSS-1h	75 - 130	25 - 55
SS-1hP, CSS-1hP	75 - 130	25 - 55
HFE-90, HFE-150, HFE-300	150 - 180	65 - 80
HFP, CRSP, HFRS-2	150 - 180	65 - 80
E-2	85 - 190	30 - 90
E-3	120 - 225	50 - 105
E-4	165 - 270	75 - 130

Add subparagraph (g) to Article 1032.06:

- (g) Penetrating Emulsified Asphalt (PEA). The penetrating emulsified asphalt shall meet the following requirements when tested according to AASHTO T59:

Viscosity, Saybolt Fural @ 25°C (77°F),	sec:	20 - 500
Sieve Test, retained on 850 μm (No. 20) sieve, maximum,	%:	0.10
Storage Stability Test, 1 day, maximum,	%:	1
Float Test @ 60°C (140°F), minimum,	sec:	150
Stone Coating Test, 3 minutes,	:	Stone Coated Thoroughly
Particle Charge	:	Negative
pH, minimum	:	7.3
Distillation Test:		
Distillation to 260°C (500°F) Residue, minimum	%:	65
Oil Distillate by Volume, maximum	%:	3
Test on residue from distillation:		
Penetration @ 25°C (77°F), 100 g, 5 sec, minimum	dmm:	300

Replace the last sentence and table of Article 1032.06 with the following:

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

Grade	Use
SS-1, SS-1h, CSS-1, CSS-1h, HFE 90, SS-1hP, CSS-1hP	Tack or fog seal
PEP	Bituminous surface treatment prime
RS-2, HFE 90, HFE 150, HFE 300, CRSP, HFP, CRS-2, HFRS-2, PEA	Bituminous surface treatment
CSS-1h Latex Modified	Microsurfacing

ABV	ABOVE	CU YD	CUBIC YARD	HATCH	HATCHING	PM	PAVEMENT MARKING	STD	STANDARD
A/C	ACCESS CONTROL	CULV	CULVERT	HD	HEAD	PED	PEDESTAL	SBI	STATE BOND ISSUE
AC	ACRE	C&G	CURB & GUTTER	HDW	HEADWALL	PNT	POINT	SR	STATE ROUTE
ADJ	ADJUST	D	DEGREE OF CURVE	HDTY	HEAVY DUTY	PC	POINT OF CURVATURE	STA	STATION
AS	AERIAL SURVEYS	DC	DEPRESSED CURVE	ha	HECTARE	PI	POINT OF INTERSECTION OF HORIZONTAL CURVE	SPBGR	STEEL PLATE BEAM GUARDRAIL
AGG	AGGREGATE	DET	DETECTOR	HMA	HOT MIX ASPHALT	PRC	POINT OF REVERSE CURVE	SS	STORM SEWER
AH	AHEAD	DIA	DIAMETER	HWY	HIGHWAY	PT	POINT OF TANGENCY	STY	STORY
APT	APARTMENT	DIST	DISTRICT	HORIZ	HORIZONTAL	POT	POINT ON TANGENT	ST	STREET
ASPH	ASPHALT	DOM	DOMESTIC	HSE	HOUSE	POLYETH	POLYETHYLENE	STR	STRUCTURE
AUX	AUXILIARY	DBL	DOUBLE	IL	ILLINOIS	PCC	PORTLAND CEMENT CONCRETE	e	SUPERELEVATION RATE
AGS	AUXILIARY GAS VALVE (SERVICE)	DSEL	DOWNSTREAM ELEVATION	IMP	IMPROVEMENT	PP	POWER POLE OR PRINCIPAL POINT	S.E. RUN.	SUPERELEVATION RUNOFF LENGTH
AVE	AVENUE	DSFL	DOWNSTREAM FLOWLINE	IN DIA	INCH DIAMETER	PRM	PRIME	SURF	SURFACE
AX	AXIS OF ROTATION	DR	DRAINAGE OR DRIVE	INL	INLET	PE	PRIVATE ENTRANCE	SMK	SURVEY MARKER
BK	BACK	DI	DRAINAGE INLET OR DROP INLET	INST	INSTALLATION	PE	PROFILE	T	TANGENT DISTANCE
B-B	BACK TO BACK	DRV	DRIVEWAY	IDS	INTERSECTION DESIGN STUDY	PROF	PROFILE	T.R.	TANGENT RUNOUT DISTANCE
BKPL	BACKPLATE	DCT	DUCT	INV	INVERT	PGL	PROFILE GRADELINE	TEL	TELEPHONE
B	BARN	EA	EACH	IP	IRON PIPE	PROJ	PROJECT	TB	TELEPHONE BOX
BARR	BARRICADE	EB	EASTBOUND	IR	IRON ROD	P.C.	PROPERTY CORNER	TP	TELEPHONE POLE
BL	BASELINE	EOP	EDGE OF PAVEMENT	JT	JOINT	PL	PROPERTY LINE	TEMP	TEMPORARY
BGN	BEGIN	E-CL	EDGE TO CENTERLINE	kg	KILOGRAM	PR	PROPOSED	TBM	TEMPORARY BENCH MARK
BM	BENCHMARK	E-E	EDGE TO EDGE	km	KILOMETER	R	RADIUS or RESIDENTIAL	TD	TILE DRAIN
BIND	BINDER	ELEC	ELECTRICAL	LS	LANDSCAPING	RR	RAILROAD	TBE	TO BE EXTENDED
BIT	BITUMINOUS	EL	ELEVATION	LN	LANE	RRS	RAILROAD SPIKE	TBR	TO BE REMOVED
BTM	BOTTOM	ENTR	ENTRANCE	LT	LEFT	RPS	REFERENCE POINT STAKE	TBS	TO BE SAVED
BLVD	BOULEVARD	EXC	EXCAVATION	LIDAR	LIGHT DETECTION AND RANGING	REF	REFLECTIVE	TWP	TOWNSHIP
BRK	BRICK	EX	EXISTING	LP	LIGHT POLE	RCCP	REINFORCED CONCRETE CULVERT PIPE	TR	TOWNSHIP ROAD
BBOX	BUFFALO BOX	EXPWAY	EXPRESSWAY	LGT	LIGHTING	REINF	REINFORCEMENT	TS	TRAFFIC SIGNAL
BLDG	BUILDING	E	EXTERNAL DISTANCE OF HORIZONTAL CURVE	LF	LINEAL FEET OR LINEAR FEET	REM	REMOVAL	TSCB	TRAFFIC SIGNAL CONTROL BOX
CATV	CABLE	E	OFFSET DISTANCE TO VERTICAL CURVE	L	LITER OR CURVE LENGTH	RC	REMOVE CROWN	TSC	TRAFFIC SYSTEMS CENTER
CIP	CAST IRON PIPE	F-F	FACE TO FACE	LC	LONG CHORD	REP	REPLACEMENT	TRVS	TRANSVERSE
CB	CATCH BASIN	FA	FEDERAL AID	LNG	LONGITUDINAL	REST	RESTAURANT	TRVL	TRAVEL
C-C	CENTER TO CENTER	FAI	FEDERAL AID INTERSTATE	L SUM	LUMP SUM	RESURF	RESURFACING	TRN	TURN
CL	CENTERLINE OR CLEARANCE	FAP	FEDERAL AID PRIMARY	MACH	MACHINE	RET	RETAINING	TY	TYPE
CL-E	CENTERLINE TO EDGE	FAS	FEDERAL AID SECONDARY	MB	MAIL BOX	RT	RIGHT	T-A	TYPE A
CL-F	CENTERLINE TO FACE	FAUS	FEDERAL AID URBAN SECONDARY	MH	MANHOLE	ROW	RIGHT-OF-WAY	TYP	TYPICAL
CTS	CENTERS	FP	FENCE POST	MATL	MATERIAL	RD	ROAD	UNDGND	UNDERGROUND
CERT	CERTIFIED	OPT	FIBER OPTIC	MED	MEDIAN	RDWY	ROADWAY	USGS	U.S. GEOLOGICAL SURVEY
CHSLD	CHISELED	FE	FIELD ENTRANCE	m	METER	RTE	ROUTE	USEL	UPSTREAM ELEVATION
CS	CITY STREET	FH	FIRE HYDRANT	METH	METHOD	SAN	SANITARY	USFL	UPSTREAM FLOWLINE
CP	CLAY PIPE	FL	FLOW LINE	M	MID-ORDINATE	SANS	SANITARY SEWER	UTIL	UTILITY
CLSD	CLOSED	FB	FOOT BRIDGE	mm	MILLIMETER	SEC	SECTION	VBOX	VALVE BOX
CLID	CLOSED LID	FDN	FOUNDATION	mm DIA	MILLIMETER DIAMETER	SEED	SEEDING	VV	VALVE VAULT
CT	COAT OR COURT	FR	FRAME	MIX	MIXTURE	SHAP	SHAPING	VL	VAULT
COMB	COMBINATION	F&G	FRAME & GRATE	MBH	MOBILE HOME	S	SHED	VEH	VEHICLE
C	COMMERCIAL BUILDING	FRWAY	FREEWAY	MOD	MODIFIED	SH	SHEET	VP	VENT PIPE
CE	COMMERCIAL ENTRANCE	GAL	GALLON	MFT	MOTOR FUEL TAX	SHLD	SHOULDER	VERT	VERTICAL
CONC	CONCRETE	GALV	GALVANIZED	N & BC	NAIL & BOTTLE CAP	SW	SIDEWALK OR SOUTHWEST	VC	VERTICAL CURVE
CONST	CONSTRUCT	G	GARAGE	N & C	NAIL & CAP	SIG	SIGNAL	VPC	VERTICAL POINT OF CURVATURE
CONTD	CONTINUED	GM	GAS METER	N & W	NAIL & WASHER	SOD	SODDING	VPI	VERTICAL POINT OF INTERSECTION
CONT	CONTINUOUS	GV	GAS VALVE	NC	NORMAL CROWN	SM	SOLID MEDIUM	VPT	VERTICAL POINT OF TANGENCY
COR	CORNER	GIS	GEOGRAPHICAL INFORMATION SYSTEM	NB	NORTHBOUND	SB	SOUTHBOUND	WM	WATER METER
CORR	CORRUGATED	GRAN	GRANULAR	NE	NORTHEAST	SE	SOUTHEAST	VV	WATER VALVE
CMP	CORRUGATED METAL PIPE	GR	GRATE	NW	NORTHWEST	SPL	SPECIAL	WMAIN	WATER MAIN
CNTY	COUNTY	GRVL	GRAVEL	O/S	OFFSET	SD	SPECIAL DITCH	WB	WESTBOUND
CH	COUNTY HIGHWAY	GND	GROUND	O&C	OIL AND CHIP	SQ FT	SQUARE FEET	WILDFL	WILDFLOWERS
CSE	COURSE	GUT	GUTTER	OLID	OPEN LID	m <sup>2</sup>	SQUARE METER	W	WITH
XSECT	CROSS SECTION	GP	GUY POLE	PAT	PATTERN	mm <sup>2</sup>	SQUARE MILLIMETER	WO	WITHOUT
m <sup>3</sup>	CUBIC METER	GW	GUY WIRE	PVD	PAVED	SQ YD	SQUARE YARD		
mm <sup>3</sup>	CUBIC MILLIMETER	HH	HANDHOLE	PVMT	PAVEMENT	STB	STABILIZED		

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APPROVED <u>January 1, 2021</u>  ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-21	Updated fonts, abbreviations and symbols.
1-1-19	Added new symbols.

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 1 of 9)

**STANDARD 000001-08**

<u>ADJUSTMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>ALIGNMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>DRAINAGE ITEMS</u>		<u>EX</u>	<u>PR</u>
Structure To Be Adjusted			ADJ	Baseline	_____	_____		Channel or Stream Line	-----	-----	
Structure To Be Cleaned			C	Centerline	-----	-----		Culvert Line	-----	-----	
Main Structure To Be Filled			FM	Centerline Break Circle	o	o		Grading & Shaping Ditches	-----	-----	
Structure To Be Filled			F	Baseline Symbol	BL	BL		Drainage Boundary Line	////	////	
Structure To Be Filled Special			FSP	Centerline Symbol	CL	CL		Paved Ditch	=====	=====	
Structure To Be Removed			R	PI Indicator	Δ	Δ		Aggregate Ditch	=====	=====	
Structure To Be Reconstructed			REC	Point Indicator	o	o		Pipe Underdrain	=====	=====	
Structure To Be Reconstructed Special			RSP	Horizontal Curve Data (Half Size)	EX. CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=		Storm Sewer	=====	=====	
Frame and Grate To Be Adjusted			A	<u>BOUNDARIES ITEMS</u>		<u>EX</u>	<u>PR</u>	Flowline	FL	FL	
Frame and Lid To Be Adjusted			A	Dashed Property Line	-----	-----		Ditch Check	◆	◆	
Domestic Service Box To Be Adjusted			A	Solid Property/Lot Line	_____	_____		Headwall	-	∩	
Valve Vault To Be Adjusted			A	Section/Grant Line	-----	-----		Inlet	□	■	
Special Adjustment			SP	Quarter Section Line	-----	-----		Manhole	⊙	⊙	
Item To Be Abandoned			AB	Quarter/Quarter Section Line	-----	-----		Summit	↔	↔	
Item To Be Moved			M	County/Township Line	-----	-----		Roadway Ditch Flow	~→	~→	
Item To Be Relocated			REL	State Line	-----	-----		Swale	→	→	
Pavement Removal and Replacement				Chiseled Square Found	□	□		Catch Basin	○	●	
				Iron Pipe Found	○	○		Culvert End Section	◁	◁	
				Iron Pipe Set	●	●		Water Surface Indicator	▽	▽	
				Survey Marker	◐	◐		Riprap	▒	▒	
				Property Line Symbol	PL	PL		<u>HYDRAULICS ITEMS</u>		<u>EX</u>	<u>PR</u>
				Same Ownership Symbol (Half Size)	↗	↗		Overflow	↪	↪	
				Northwest Quarter Corner (Half Size)	⊙	⊙		Sheet Flow	→	→	
				Section Corner (Half Size)	⊙	⊙		Hydrant Outlet	→	→	
				Southeast Quarter Corner (Half Size)	⊙	⊙		<b>STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS</b> (Sheet 2 of 9) <b>STANDARD 000001-08</b>			


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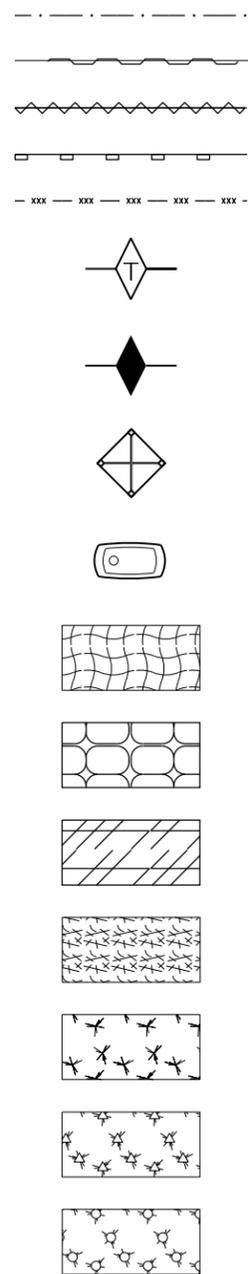
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**EROSION & SEDIMENT CONTROL ITEMS**

**EX**

**PR**

- Cleaning & Grading Limits
- Dike
- Erosion Control Fence
- Perimeter Erosion Barrier
- Temporary Fence
- Ditch Check Temporary
- Ditch Check Permanent
- Inlet & Pipe Protection
- Sediment Basin
- Erosion Control Blanket
- Fabric Formed Concrete Revetment Mat
- Turf Reinforcement Mat
- Mulch Temporary
- Mulch Method 1
- Mulch Method 2 Stabilized
- Mulch Method 3 Hydraulic

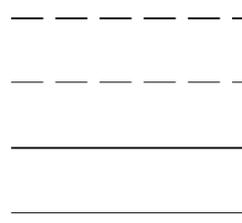


**CONTOUR ITEMS**

**EX**

**PR**

- Approx. Index Line
- Approx. Intermediate Line
- Index Contour
- Intermediate Contour

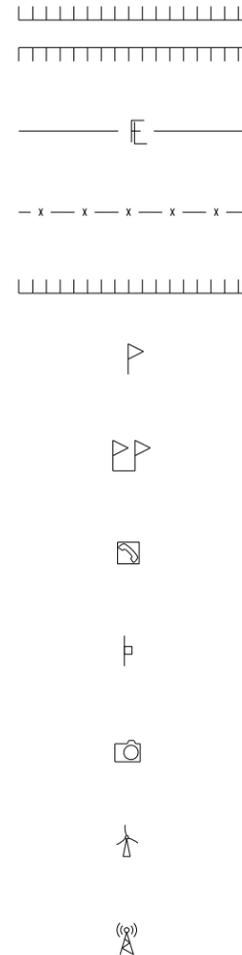


**NON-HIGHWAY IMPROVEMENT ITEMS**

**EX**

**PR**

- Noise Attn./Levee
- Field Line
- Fence
- Base of Levee
- Mailbox
- Multiple Mailboxes
- Pay Telephone
- Advertising Sign
- ITS\* Camera
- Wind Turbine
- Cellular Tower



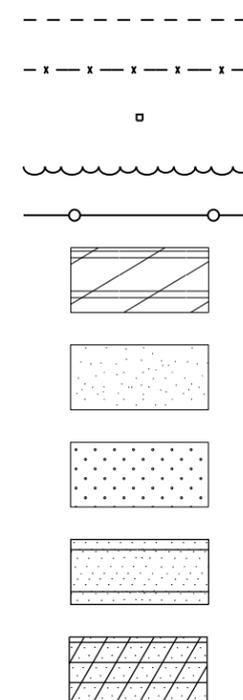
\*Intelligent Transportation Systems

**LANDSCAPING ITEMS**

**EX**

**PR**

- Contour Mounding Line
- Fence
- Fence Post
- Shrubs
- Mowline
- Perennial Plants
- Seeding Class 2
- Seeding Class 2A
- Seeding Class 4
- Seeding Class 4 & 5 Combined

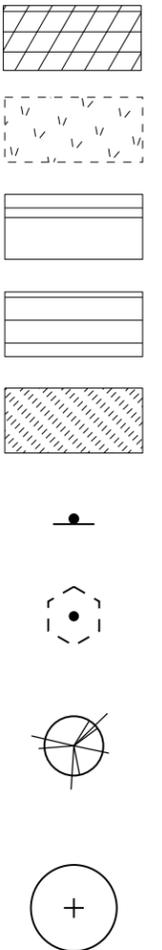


**EXISTING LANDSCAPING ITEMS (contd.)**

**EX**

**PR**

- Seeding Class 5
- Seeding Class 7
- Seedlings Type 1
- Seedlings Type 2
- Sodding
- Mowstake w/Sign
- Tree Trunk Protection
- Evergreen Tree
- Shade Tree

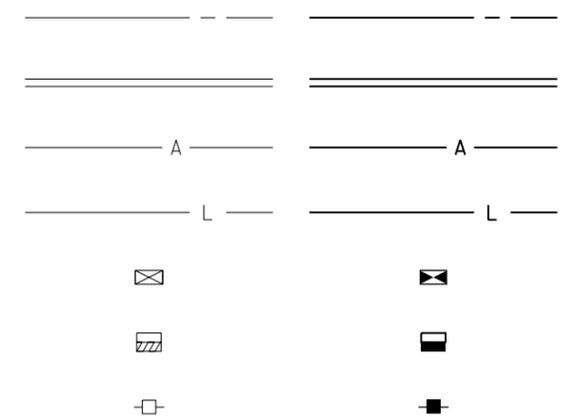


**LIGHTING**

**EX**

**PR**

- Duct
- Conduit
- Electrical Aerial Cable
- Electrical Buried Cable
- Controller
- Underpass Luminaire
- Power Pole



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**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**  
 (Sheet 3 of 9)

**STANDARD 000001-08**

**LIGHTING  
(contd.)**

**EX**

**PR**

Pull Point



Handhole



Heavy Duty Handhole



Junction Box



Light Unit Comb.



Electrical Ground



Traffic Flow Arrow



High Mast Pole  
(Half Size)



Light Unit-1



**PAVEMENT (MISC.)**

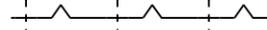
**EX**

**PR**

Keyed Long. Joint



Keyed Long. Joint w/Tie Bars



Sawed Long. Joint w/Tie Bars



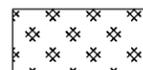
Bituminous Shoulder



Bituminous Taper



Stabilized Driveway



Widening



**PAVEMENT MARKINGS**

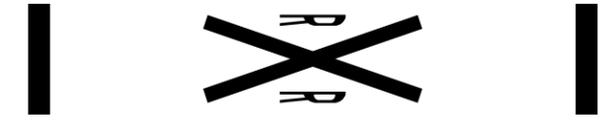
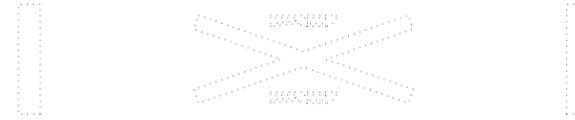
**EX**

**PR**

Handicap Symbol



RR Crossing



Raised Marker Amber 1 Way



Raised Marker Amber 2 Way



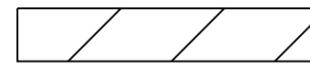
Raised Marker Crystal 1 Way



Two Way Turn Left



Shoulder Diag. Pattern



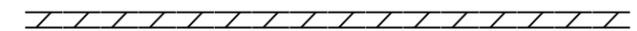
Skip-Dash White



Skip-Dash Yellow



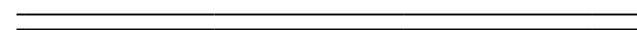
Stop Line



Solid Line



Double Centerline



Dotted Lines



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**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 4 of 9)

**STANDARD 000001-08**

**PAVEMENT MARKINGS**  
**(contd.)**

CL 2Ln 2Way  
RRPM 12.2 m (40') o.c.

CL 2Ln 2Way  
RRPM 80' (24.4 m) o.c.

CL Multilane Div.  
RRPM 40' (12.2 m) o.c.

CL Multilane Div.  
RRPM 80' (24.4 m) o.c.

CL Multilane Div. Dbl.  
RRPM 80' (24.4 m) o.c.

CL Multilane Undiv.

Two Way Turn Left Line

Urban Combination Left

Urban Combination Right

Urban Left Turn Arrow

Urban Right Turn Arrow

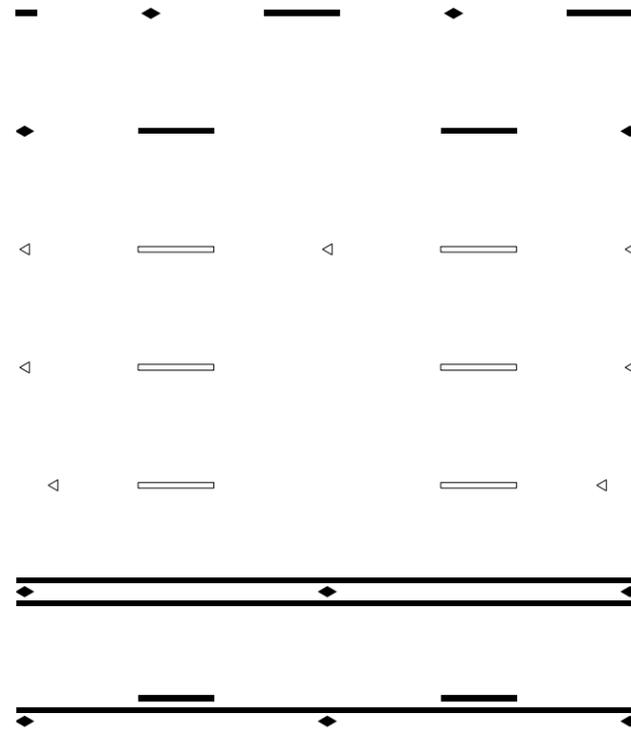
Urban Left Turn Only

Urban Right Turn Only

Urban Thru Only

**EX**

**PR**



ONLY ONLY ONLY

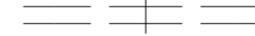


**RAILROAD ITEMS**

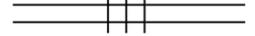
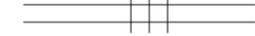
**EX**

**PR**

Abandoned Railroad



Railroad



Railroad Point



Control Box



Crossing Gate



Flashing Signal



Railroad Cant. Mast Arm



Crossbuck



**REMOVAL ITEMS**

**EX**

**PR**

Removal Tic



Bituminous Removal



Hatch Pattern



Tree Removal Single



**RIGHT OF WAY ITEMS**

**EX**

**PR**

Future ROW Corner Monument



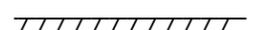
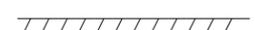
ROW Marker



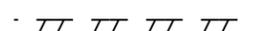
ROW Line



Easement



Temporary Easement



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Urban LT & RT Turn Arrow

Urban Thru Arrow

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 5 of 9)

**STANDARD 000001-08**

**PAVEMENT MARKINGS**  
**(contd.)**

**EX**

**PR**

Urban U-Turn



Urban Combined U-Turn



Rural Combination Left



Rural Combination Right



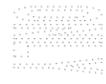
Rural Left Turn Arrow



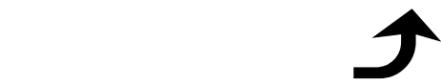
Rural Right Turn Arrow



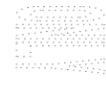
Rural Left Turn Only



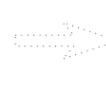
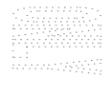
**ONLY ONLY ONLY**



Rural Right Turn Only



Rural Thru Only



Rural Thru Arrow



Rural Lt & Rt Turn Arrow



Bike Lane Symbol



Bike Lane Text



Bike Path Shared



Bike Shared Roadway



Lane Drop Symbol



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Wrong Way Arrow



**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 6 of 9)  
**STANDARD 000001-08**

**RIGHT OF WAY ITEMS  
(contd.)**

	<u>EX</u>	<u>PR</u>
Access Control Line	—	— AC —
Access Control Line & ROW	— AC —	— AC —
Access Control Line & ROW with Fence	— x — AC —	— x — AC — x —
Excess ROW Line		— XS —

**ROADWAY PLAN  
ITEMS**

	<u>EX</u>	<u>PR</u>
Cable Barrier		
Concrete Barrier		
Edge of Pavement	---	---
Bit Shoulders, Medians and C&G Line	---	---
Aggregate Shoulder	---	---
Sidewalks, Driveways	---	---
Guardrail		
Guardrail Post	□	
Traffic Sign	⊥	⊥
Corrugated Median		
Impact Attenuator		
North Arrow with District Office (Half Size)		
Match Line		STA. 45+00
Slope Limit Line	---	
Typical Cross-Section Line	---	---

**ROADWAY PROFILES**

	<u>EX</u>	<u>PR</u>
P.I. Indicator	△	△
Point Indicator	○	○
Earthworks Balance Point		
Begin Point		
Vert. Curve Data	VPI = ELEV = L = E =	VPI = ELEV = L = E =
Ditch Profile Left Side	-----	-----
Ditch Profile Right Side	-----	-----
Roadway Profile Line	-----	-----
Storm Sewer Profile Left Side	-----	-----
Storm Sewer Profile Right Side	-----	-----

**SIGNING ITEMS**

	<u>EX</u>	<u>PR</u>
Cone, Drum or Barricade		○
Barricade Type II		
Barricade Type III		TT
Barricade With Edge Line		
Flashing Light Sign		○
Panels I		
Panels II		
Direction of Traffic		
Sign Flag (Half Size)		

**SIGNING ITEMS  
(contd.)**

	<u>EX</u>	<u>PR</u>
Reverse Left W1-4L (Half Size)		
Reverse Right W1-4R (Half Size)		
Two Way Traffic Sign W6-3 (Half Size)		
Detour Ahead W20-2(O) (Half Size)		
Left Lane Closed Ahead W20-5L(O) (Half Size)		
Right Lane Closed Ahead W20-5R(O) (Half Size)		
Road Closed Ahead W20-3(O) (Half Size)		
Road Construction Ahead W20-1(O) (Half Size)		
Single Lane Ahead (Half Size)		
Transition Left W4-2L (Half Size)		
Transition Right W4-2R (Half Size)		

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**STANDARD SYMBOLS,  
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AND PATTERNS**  
(Sheet 7 of 9)

**STANDARD 000001-08**

**SIGNING ITEMS  
(contd.)**

**EX**

**PR**

One Way Arrow Lrg. W1-6-(O)  
(Half Size)



Two Way Arrow Large W1-7-(O)  
(Half Size)



Detour M4-10L-(O)  
(Half Size)



Detour M4-10R-(O)  
(Half Size)



One Way Left R6-1L  
(Half Size)



One Way Right R6-1R  
(Half Size)



Left Turn Lane R3-I100L  
(Half Size)



Keep Left R4-7AL  
(Half Size)



Keep Left R4-7BL  
(Half Size)



Keep Right R4-7AR  
(Half Size)



Keep Right R4-7BR  
(Half Size)



Stop Here On Red R10-6-AL  
(Half Size)



Stop Here On Red R10-6-AR  
(Half Size)



No Left Turn R3-2  
(Half Size)



No Right Turn R3-1  
(Half Size)



Road Closed R11-2  
(Half Size)



Road Closed Thru Traffic R11-2  
(Half Size)



**STRUCTURES ITEMS**

**EX**

**PR**

Box Culvert Barrel



Box Culvert Headwall



Bridge Pier



Bridge



Retaining Wall



Temporary Sheet Piling



**TRAFFIC SHEET  
ITEMS**

**EX**

**PR**

Cable Number



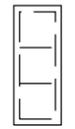
Left Turn Green



Left Turn Yellow



Signal Backplate



Signal Section 8" (200 mm)



Signal Section 12" (300 mm)



Walk/Don't Walk Letters



Walk/Don't Walk Symbols



**TRAFFIC SIGNAL  
ITEMS**

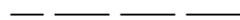
**EX**

**PR**

Galv. Steel Conduit



Underground Cable



Detector Loop Line



Detector Loop Large



Detector Loop Small



Detector Loop Quadrapole



**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 8 of 9)

**STANDARD 000001-08**

Illinois Department of Transportation

PASSED January 1, 2021  
*Michael Bond*  
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021  
*Joe E. Cole*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**TRAFFIC SIGNAL ITEMS (contd.)**

**EX**

**PR**

Detector Raceway



Aluminum Mast Arm



Steel Mast Arm



Veh. Detector Magnetic



Conduit Splice



Controller



Gulfbox Junction



Wood Pole



Temp. Signal Head



Handhole



Double Handhole



Heavy Duty Handhole



Junction Box



Ped. Pushbutton Detector



Ped. Signal Head



Power Pole Service



Priority Veh. Detector



Signal Head



Signal Head w/Backplate



Signal Post



Closed Circuit TV



Video Detector System



**UNDERGROUND UTILITY ITEMS**

**EX**

**PR**

**ABANDONED**

Cable TV



Electric Cable



Fiber Optic



Gas Pipe



Oil Pipe



Sanitary Sewer



Telephone Cable



Water Pipe



**UTILITIES ITEMS**

**EX**

**PR**

Controller



Double Handhole



Fire Hydrant



GuyWire or Deadman Anchor



Handhole



Heavy Duty Handhole



Junction Box



Light Pole



Manhole



Monitoring Well (Gasoline)



Pipeline Warning Sign



Power Pole



Power Pole with Light



Sanitary Sewer Cleanout



Splice Box Above Ground



Telephone Splice Box Above Ground



Telephone Pole



**UTILITY ITEMS (contd.)**

**EX**

**PR**

Traffic Signal



Traffic Signal Control Box



Water Meter



Water Meter Valve Box



Profile Line



Aerial Power Line



**VEGETATION ITEMS**

**EX**

**PR**

Deciduous Tree



Bush or Shrub



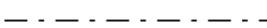
Evergreen Tree



Stump



Orchard/Nursery Line



Vegetation Line



Woods & Bush Line



**WATER FEATURE ITEMS**

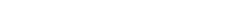
**EX**

**PR**

Stream or Drainage Ditch



Waters Edge



Water Surface Indicator



Water Point



Disappearing Ditch



Marsh



Marsh/Swamp Boundary



Illinois Department of Transportation

PASSED January 1, 2021  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

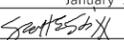
APPROVED January 1, 2021  
*Joe E. Cole*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**  
 (Sheet 9 of 9)

**STANDARD 000001-08**

REINFORCEMENT BARS - ENGLISH (METRIC)																	
Bar Size	Dia. in. mm	Cross-Sectional Area sq. in. (sq. mm)	Weight lbs./ft. kg/m	SPACING, in. (mm)													
				4 (100)	4½ (115)	5 (125)	5½ (140)	6 (150)	6½ (165)	7 (175)	7½ (190)	8 (200)	8½ (215)	9 (225)	10 (250)	11 (275)	12 (300)
English (metric)				AREA OF STEEL PER FOOT (METER), sq. in. (sq. mm)													
3 (10)	0.375 (9.5)	0.110 (71)	0.376 (0.560)	0.330 (710)	0.293 (617)	0.264 (568)	0.240 (507)	0.220 (473)	0.203 (430)	0.189 (406)	0.176 (374)	0.165 (355)	0.155 (330)	0.147 (316)	0.132 (284)	0.120 (258)	0.110 (237)
4 (13)	0.500 (12.7)	0.196 (129)	0.668 (0.944)	0.588 (1290)	0.523 (1122)	0.470 (1032)	0.428 (921)	0.392 (860)	0.362 (782)	0.336 (737)	0.314 (679)	0.294 (645)	0.277 (600)	0.261 (573)	0.235 (516)	0.214 (469)	0.196 (430)
5 (16)	0.625 (15.9)	0.307 (199)	1.043 (1.552)	0.921 (1990)	0.819 (1730)	0.737 (1592)	0.670 (1421)	0.614 (1327)	0.567 (1206)	0.526 (1137)	0.491 (1047)	0.461 (995)	0.433 (926)	0.409 (884)	0.368 (796)	0.335 (724)	0.307 (663)
6 (19)	0.750 (19.1)	0.442 (284)	1.502 (2.235)	1.326 (2840)	1.179 (2470)	1.061 (2272)	0.964 (2029)	0.884 (1893)	0.816 (1721)	0.758 (1623)	0.707 (1495)	0.663 (1420)	0.624 (1321)	0.589 (1262)	0.530 (1136)	0.482 (1033)	0.442 (947)
7 (22)	0.875 (22.2)	0.601 (387)	2.044 (3.042)	1.803 (3870)	1.603 (3365)	1.442 (3096)	1.311 (2764)	1.202 (2580)	1.110 (2345)	1.030 (2211)	0.962 (2037)	0.902 (1935)	0.848 (1800)	0.801 (1720)	0.721 (1548)	0.656 (1407)	0.601 (1290)
8 (25)	1.000 (25.4)	0.785 (510)	2.670 (3.973)	2.355 (5100)	2.093 (4435)	1.884 (4080)	1.713 (3543)	1.570 (3400)	1.449 (3091)	1.346 (2914)	1.256 (2684)	1.178 (2550)	1.108 (2372)	1.047 (2267)	0.942 (2040)	0.856 (1855)	0.785 (1700)
9 (29)	1.128 (28.7)	1.000 (645)	3.400 (5.060)	3.000 (6450)	2.667 (5609)	2.400 (5160)	2.182 (4607)	2.000 (4300)	1.846 (3909)	1.714 (3686)	1.600 (3395)	1.500 (3225)	1.412 (3000)	1.333 (2867)	1.200 (2580)	1.091 (2345)	1.000 (2150)
10 (32)	1.270 (32.3)	1.267 (819)	4.303 (6.404)	3.801 (8190)	3.379 (7122)	3.041 (6552)	2.764 (5850)	2.534 (5460)	2.339 (4964)	2.172 (4680)	2.027 (4311)	1.901 (4095)	1.789 (3809)	1.689 (3640)	1.520 (3276)	1.382 (2978)	1.267 (2730)
11 (36)	1.410 (35.8)	1.561 (1006)	5.313 (7.907)	4.683 (10060)	4.163 (8748)	3.746 (8048)	3.406 (7186)	3.122 (6707)	2.882 (6097)	2.676 (5749)	2.498 (5295)	2.342 (5030)	2.204 (4679)	2.081 (4471)	1.873 (4024)	1.703 (3658)	1.561 (3353)

 Illinois Department of Transportation  
 PASSED January 1, 2009  
  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 1, 2009  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	Deleted metric table. Soft converted English table.

**AREAS OF REINFORCEMENT BARS**  
  
**STANDARD 001001-02**

DECIMAL OF AN INCH AND OF A FOOT																	
A		B	A		B	A		B	A		B	A		B			
$\frac{1}{64}$	0.0052	$\frac{1}{16}$	$\frac{1}{64}$	0.171875	$2\frac{1}{16}$	$\frac{1}{32}$	0.3385	$4\frac{1}{16}$	$\frac{3}{64}$	0.5052	$6\frac{1}{16}$	$\frac{4}{64}$	0.671875	$8\frac{1}{16}$	$\frac{27}{32}$	0.8385	$10\frac{1}{16}$
	0.0104	$\frac{1}{8}$		0.1771	$2\frac{1}{8}$		0.34375	$4\frac{1}{8}$		0.5104	$6\frac{1}{8}$		0.6771	$8\frac{1}{8}$		0.84375	$10\frac{1}{8}$
	0.015625	$\frac{3}{16}$		0.1823	$2\frac{3}{16}$		0.3490	$4\frac{3}{16}$		0.515625	$6\frac{3}{16}$		0.6823	$8\frac{3}{16}$		0.8490	$10\frac{3}{16}$
	0.0208	$\frac{1}{4}$		0.1875	$2\frac{1}{4}$		0.3542	$4\frac{1}{4}$		0.5208	$6\frac{1}{4}$		0.6875	$8\frac{1}{4}$		0.8542	$10\frac{1}{4}$
$\frac{1}{32}$	0.0260	$\frac{5}{16}$	$\frac{1}{32}$	0.1927	$2\frac{5}{16}$	$\frac{2}{64}$	0.359375	$4\frac{5}{16}$	$\frac{17}{32}$	0.5260	$6\frac{5}{16}$	$\frac{45}{64}$	0.6927	$8\frac{5}{16}$	$\frac{55}{64}$	0.859375	$10\frac{5}{16}$
	0.03125	$\frac{3}{8}$		0.1979	$2\frac{3}{8}$		0.3646	$4\frac{3}{8}$		0.53125	$6\frac{3}{8}$		0.6979	$8\frac{3}{8}$		0.8646	$10\frac{3}{8}$
	0.0365	$\frac{7}{16}$		0.203125	$2\frac{7}{16}$		0.3698	$4\frac{7}{16}$		0.5365	$6\frac{7}{16}$		0.703125	$8\frac{7}{16}$		0.8698	$10\frac{7}{16}$
	0.0417	$\frac{1}{2}$		0.2083	$2\frac{1}{2}$		0.3750	$4\frac{1}{2}$		0.5417	$6\frac{1}{2}$		0.7083	$8\frac{1}{2}$		0.8750	$10\frac{1}{2}$
$\frac{3}{64}$	0.046875	$\frac{9}{16}$	$\frac{1}{32}$	0.2135	$2\frac{9}{16}$	$\frac{25}{64}$	0.3802	$4\frac{9}{16}$	$\frac{35}{64}$	0.546875	$6\frac{9}{16}$	$\frac{23}{32}$	0.7135	$8\frac{9}{16}$	$\frac{57}{64}$	0.8802	$10\frac{9}{16}$
	0.0521	$\frac{3}{8}$		0.21875	$2\frac{3}{8}$		0.3854	$4\frac{3}{8}$		0.5521	$6\frac{3}{8}$		0.71875	$8\frac{3}{8}$		0.8854	$10\frac{3}{8}$
	0.0573	$\frac{11}{16}$		0.2240	$2\frac{11}{16}$		0.390625	$4\frac{11}{16}$		0.5573	$6\frac{11}{16}$		0.7240	$8\frac{11}{16}$		0.890625	$10\frac{11}{16}$
	0.0625	$\frac{3}{4}$		0.2292	$2\frac{3}{4}$		0.3958	$4\frac{3}{4}$		0.5625	$6\frac{3}{4}$		0.7292	$8\frac{3}{4}$		0.8958	$10\frac{3}{4}$
$\frac{1}{16}$	0.0677	$\frac{13}{16}$	$\frac{1}{64}$	0.234375	$2\frac{13}{16}$	$\frac{13}{32}$	0.4010	$4\frac{13}{16}$	$\frac{9}{16}$	0.5677	$6\frac{13}{16}$	$\frac{47}{64}$	0.734375	$8\frac{13}{16}$	$\frac{29}{32}$	0.9010	$10\frac{13}{16}$
	0.0729	$\frac{7}{8}$		0.2396	$2\frac{7}{8}$		0.40625	$4\frac{7}{8}$		0.5729	$6\frac{7}{8}$		0.7396	$8\frac{7}{8}$		0.90625	$10\frac{7}{8}$
	0.078125	$\frac{15}{16}$		0.2448	$2\frac{15}{16}$		0.4115	$4\frac{15}{16}$		0.578125	$6\frac{15}{16}$		0.7448	$8\frac{15}{16}$		0.9115	$10\frac{15}{16}$
	0.0833	1		0.2500	3		0.4167	5		0.5833	7		0.7500	9		0.9167	11
$\frac{3}{32}$	0.0885	$\frac{17}{16}$	$\frac{1}{64}$	0.2552	$3\frac{17}{16}$	$\frac{27}{64}$	0.421875	$5\frac{17}{16}$	$\frac{19}{32}$	0.5885	$7\frac{17}{16}$	$\frac{49}{64}$	0.7552	$9\frac{17}{16}$	$\frac{59}{64}$	0.921875	$11\frac{17}{16}$
	0.09375	$\frac{1}{8}$		0.2604	$3\frac{1}{8}$		0.4271	$5\frac{1}{8}$		0.59375	$7\frac{1}{8}$		0.7604	$9\frac{1}{8}$		0.9271	$11\frac{1}{8}$
	0.0990	$\frac{3}{16}$		0.265625	$3\frac{3}{16}$		0.4323	$5\frac{3}{16}$		0.5990	$7\frac{3}{16}$		0.765625	$9\frac{3}{16}$		0.9323	$11\frac{3}{16}$
	0.1042	$\frac{1}{4}$		0.2708	$3\frac{1}{4}$		0.4375	$5\frac{1}{4}$		0.6042	$7\frac{1}{4}$		0.7708	$9\frac{1}{4}$		0.9375	$11\frac{1}{4}$
$\frac{7}{64}$	0.109375	$\frac{5}{16}$	$\frac{9}{32}$	0.2760	$3\frac{5}{16}$	$\frac{7}{16}$	0.4427	$5\frac{5}{16}$	$\frac{39}{64}$	0.609375	$7\frac{5}{16}$	$\frac{25}{32}$	0.7760	$9\frac{5}{16}$	$\frac{15}{16}$	0.9427	$11\frac{5}{16}$
	0.1146	$\frac{1}{8}$		0.28125	$3\frac{1}{8}$		0.4479	$5\frac{1}{8}$		0.6146	$7\frac{1}{8}$		0.78125	$9\frac{1}{8}$		0.9479	$11\frac{1}{8}$
	0.1198	$\frac{3}{16}$		0.2865	$3\frac{3}{16}$		0.453125	$5\frac{3}{16}$		0.6198	$7\frac{3}{16}$		0.7865	$9\frac{3}{16}$		0.953125	$11\frac{3}{16}$
	0.1250	$\frac{1}{2}$		0.2917	$3\frac{1}{2}$		0.4583	$5\frac{1}{2}$		0.6250	$7\frac{1}{2}$		0.7917	$9\frac{1}{2}$		0.9583	$11\frac{1}{2}$
$\frac{1}{8}$	0.1302	$\frac{19}{16}$	$\frac{1}{64}$	0.296875	$3\frac{19}{16}$	$\frac{29}{64}$	0.4635	$5\frac{19}{16}$	$\frac{5}{8}$	0.6302	$7\frac{19}{16}$	$\frac{51}{64}$	0.796875	$9\frac{19}{16}$	$\frac{61}{64}$	0.9635	$11\frac{19}{16}$
	0.1354	$\frac{1}{8}$		0.3021	$3\frac{1}{8}$		0.46875	$5\frac{1}{8}$		0.6354	$7\frac{1}{8}$		0.8021	$9\frac{1}{8}$		0.96875	$11\frac{1}{8}$
	0.140625	$\frac{3}{16}$		0.3073	$3\frac{3}{16}$		0.4740	$5\frac{3}{16}$		0.640625	$7\frac{3}{16}$		0.8073	$9\frac{3}{16}$		0.9740	$11\frac{3}{16}$
	0.1458	$\frac{1}{4}$		0.3125	$3\frac{1}{4}$		0.4792	$5\frac{1}{4}$		0.6458	$7\frac{1}{4}$		0.8125	$9\frac{1}{4}$		0.9792	$11\frac{1}{4}$
$\frac{5}{64}$	0.1510	$\frac{11}{16}$	$\frac{1}{32}$	0.3177	$3\frac{11}{16}$	$\frac{19}{32}$	0.484375	$5\frac{11}{16}$	$\frac{4}{64}$	0.6510	$7\frac{11}{16}$	$\frac{13}{16}$	0.8177	$9\frac{11}{16}$	$\frac{31}{32}$	0.984375	$11\frac{11}{16}$
	0.15625	$\frac{1}{8}$		0.3229	$3\frac{1}{8}$		0.4896	$5\frac{1}{8}$		0.65625	$7\frac{1}{8}$		0.8229	$9\frac{1}{8}$		0.9896	$11\frac{1}{8}$
	0.1615	$\frac{3}{16}$		0.328125	$3\frac{3}{16}$		0.4948	$5\frac{3}{16}$		0.6615	$7\frac{3}{16}$		0.828125	$9\frac{3}{16}$		0.9948	$11\frac{3}{16}$
	0.1667	2		0.3333	4		0.5000	6		0.6667	8		0.8333	10		1.0000	12

A = Fractions of Inch or Foot  
 B = Inch Equivalents to Foot Fractions

DATE	REVISIONS
1-1-97	New Standard.

## DECIMAL OF AN INCH AND OF A FOOT

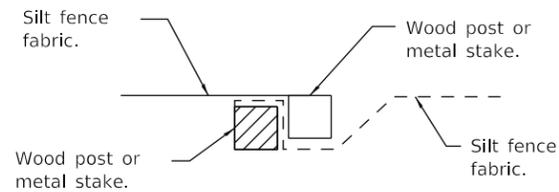
STANDARD 001006

Illinois Department of Transportation

PASSED January 1, 1997  
*Charles G. ...*  
 ENGINEER OF POLICY AND PROCEDURES

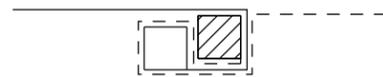
APPROVED January 1, 1997  
*Ray ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as shown.

**STEP 1**

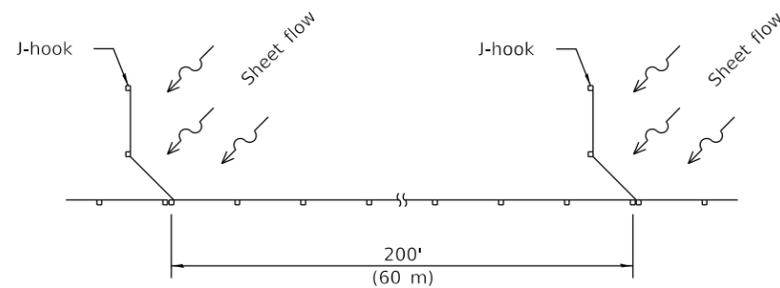


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

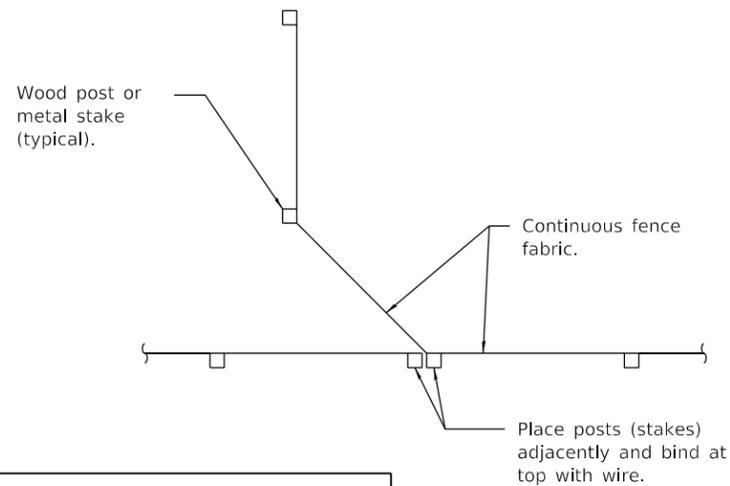
**STEP 2**

**ATTACHING TWO SILT FILTER FENCES**

(Not applicable for J-hooks)

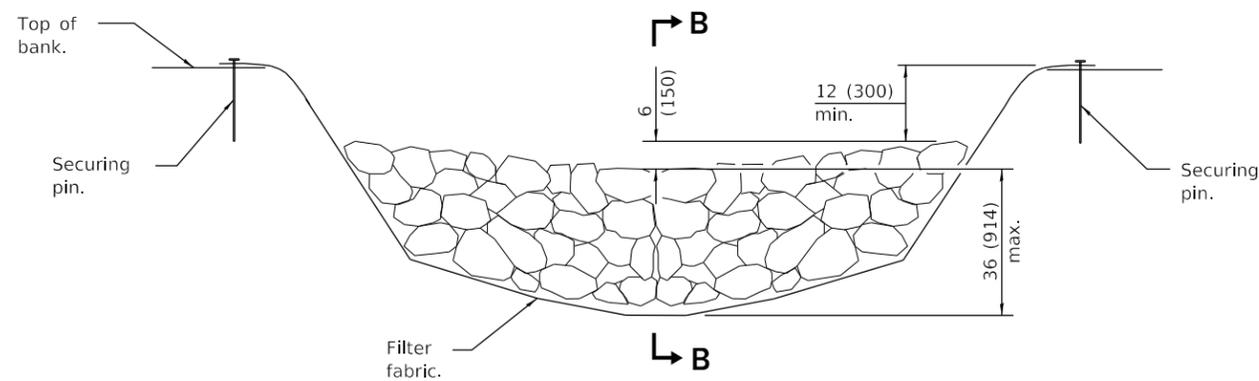


**SILT FILTER J-HOOK PLACEMENT**



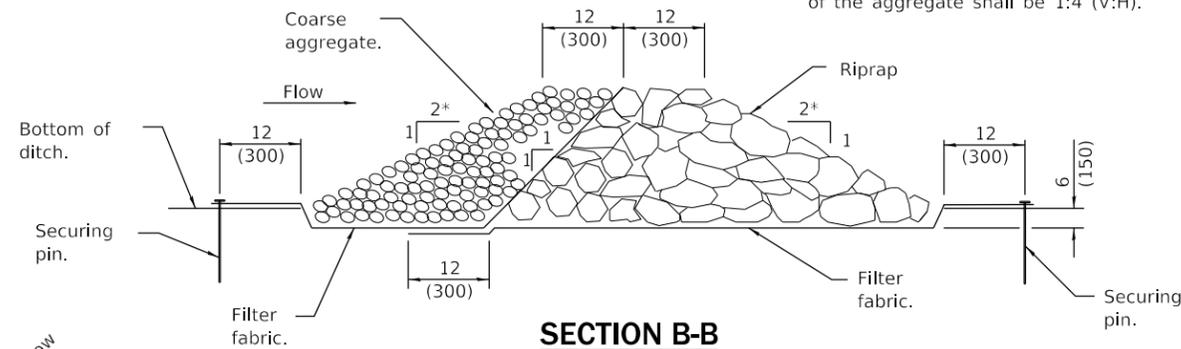
**J-HOOK**

Place posts (stakes) adjacently and bind at top with wire.



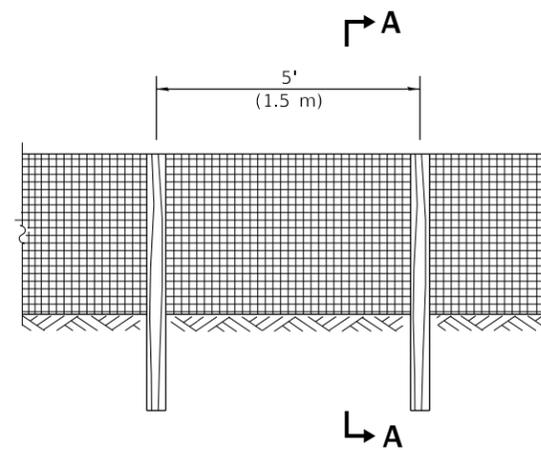
**ELEVATION**

\* When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



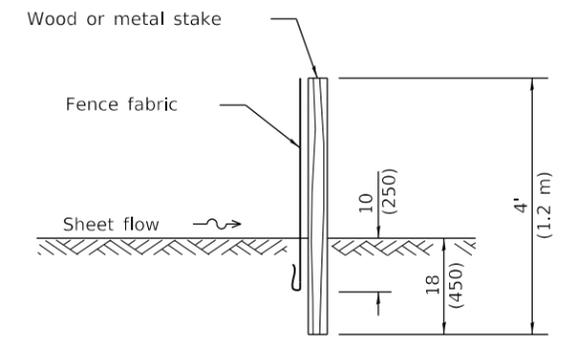
**SECTION B-B**

**AGGREGATE DITCH CHECK**

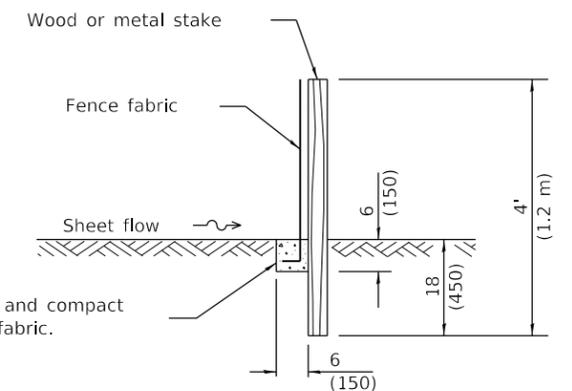


**ELEVATION**

**SILT FILTER FENCE AS A PERIMETER EROSION BARRIER**



**SLICE METHOD**



**TRENCH METHOD**

**SECTION A-A**

Excavate, backfill and compact trench to secure fabric.

**GENERAL NOTES**

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

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

DATE	REVISIONS
1-1-13	Corrected notation for flowline (f <sub>L</sub> ) on SEDIMENT BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A.

**TEMPORARY EROSION CONTROL SYSTEMS**

(Sheet 1 of 2)

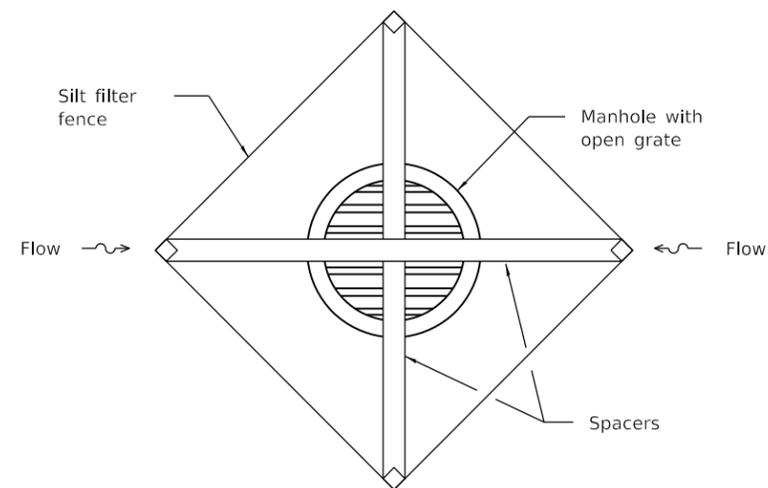
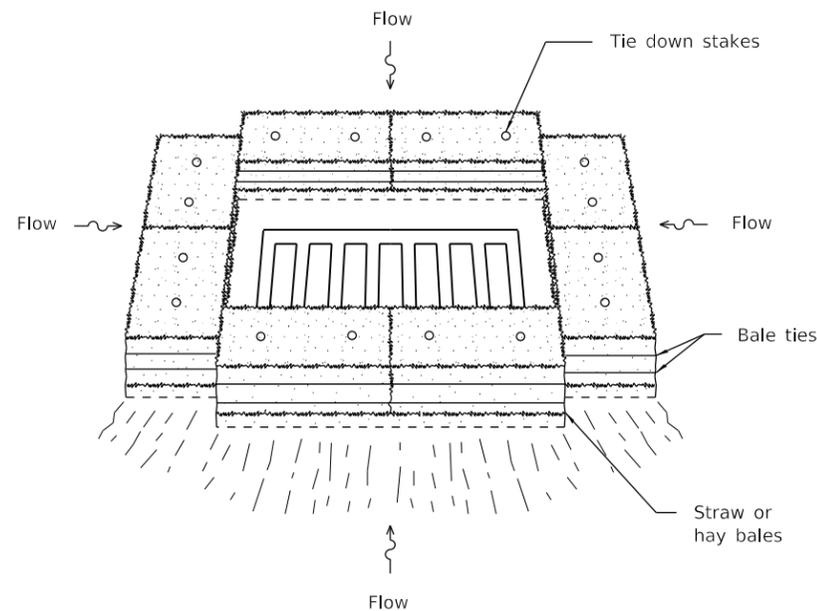
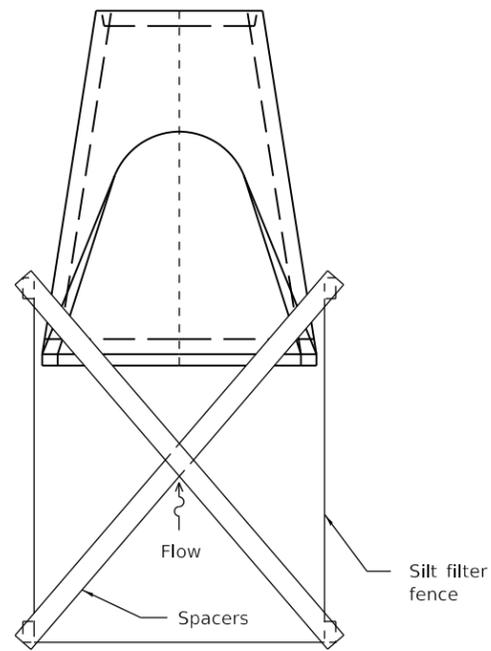
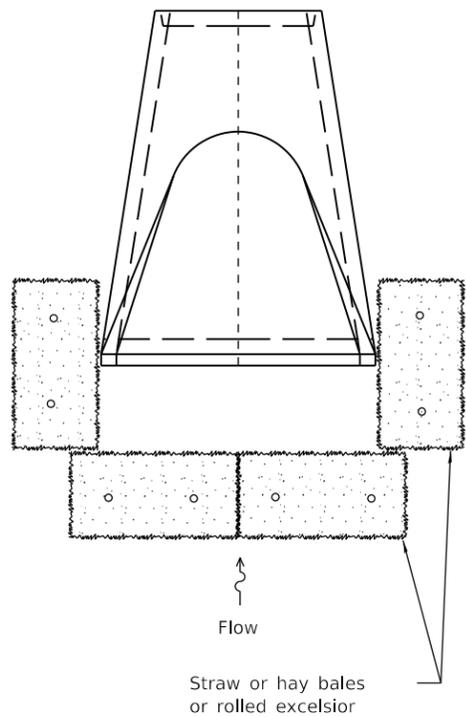
**STANDARD 280001-07**

Illinois Department of Transportation

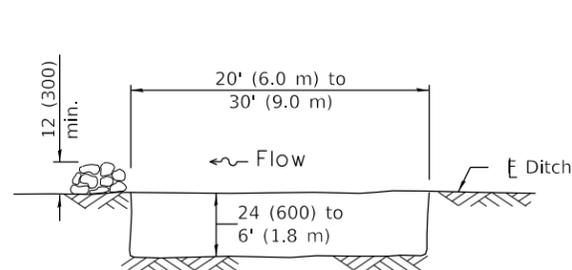
PASSED January 1, 2013  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2013  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

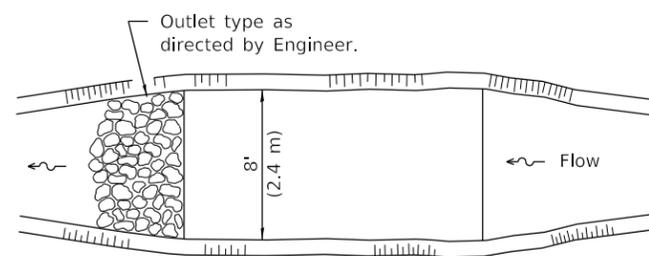


**INLET AND PIPE PROTECTION**



The performance of the basin will improve if put into a series.

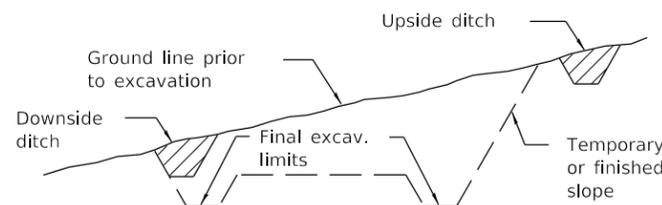
**ELEVATION**



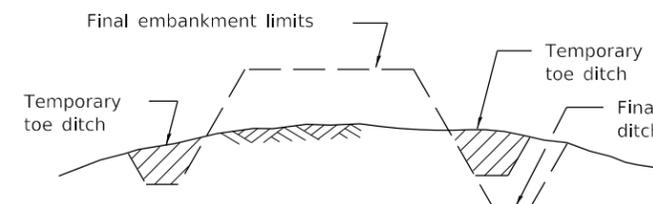
The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

**PLAN**

**SEDIMENT BASIN**



**TYPICAL CUT CROSS-SECTION**



**TYPICAL FILL CROSS-SECTION**

**TEMPORARY DITCHES FOR CUT & FILL SECTIONS**

Illinois Department of Transportation

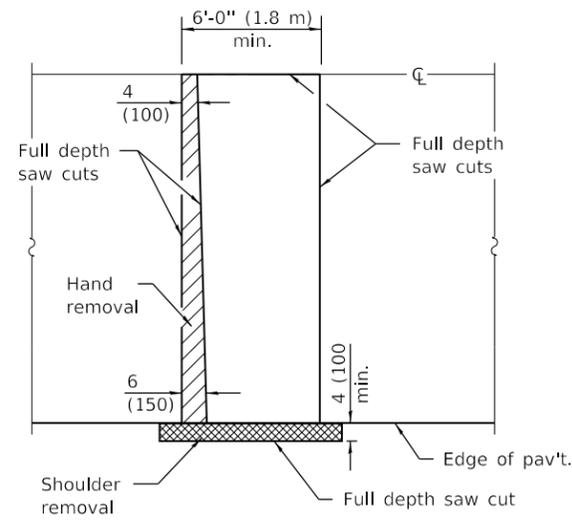
PASSED January 1, 2013  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2013  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

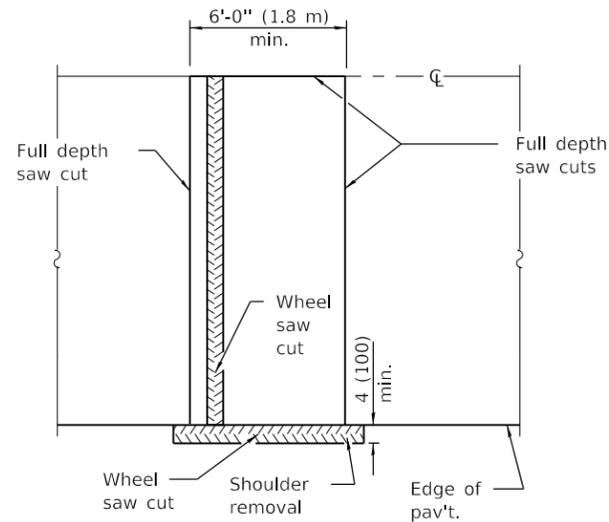
**TEMPORARY EROSION CONTROL SYSTEMS**  
 (Sheet 2 of 2)

**STANDARD 280001-07**



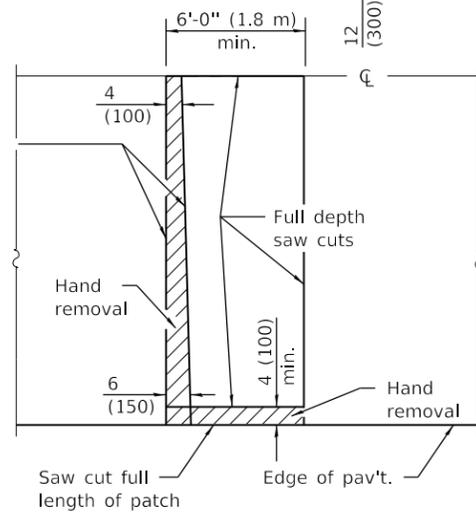
**PAVEMENT SAWING DETAIL**

(HMA SHOULDER)



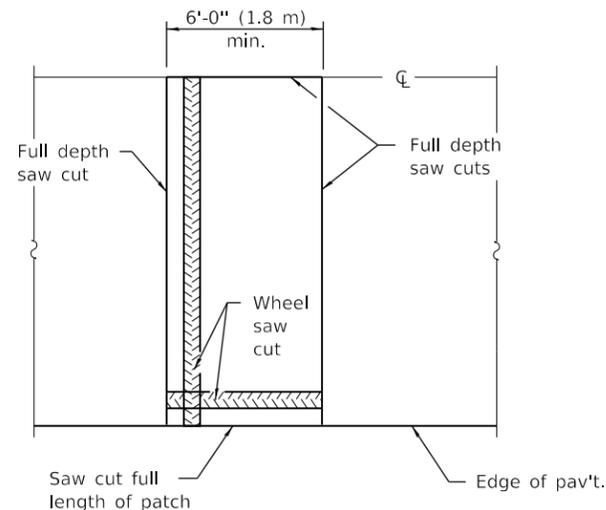
**ALTERNATE SAWING DETAIL**

(HMA SHOULDER)



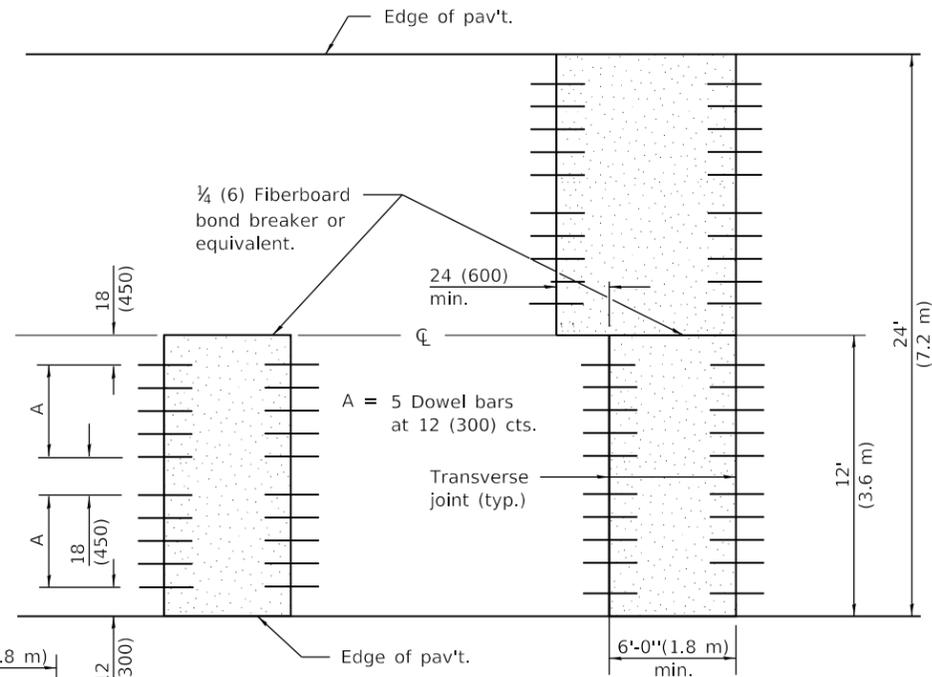
**PAVEMENT SAWING DETAIL**

(PCC SHOULDER)

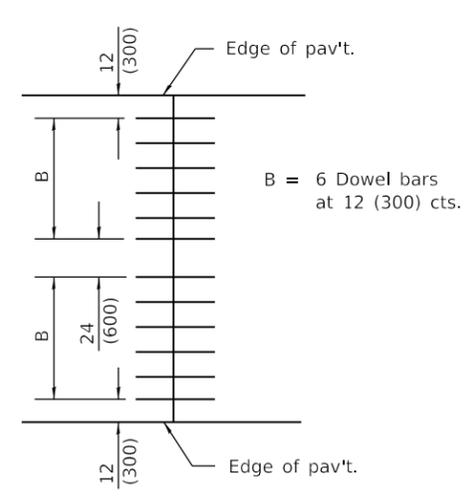


**ALTERNATE SAWING DETAIL**

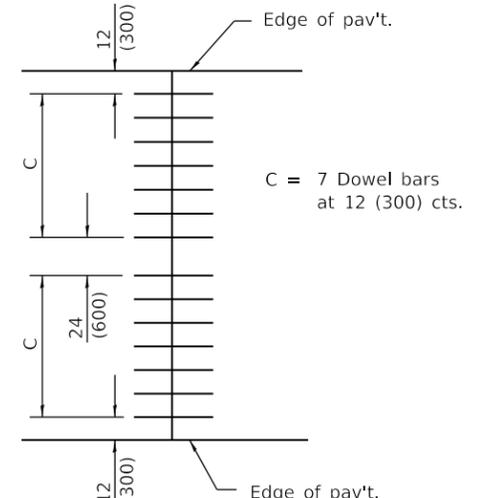
(PCC SHOULDER)



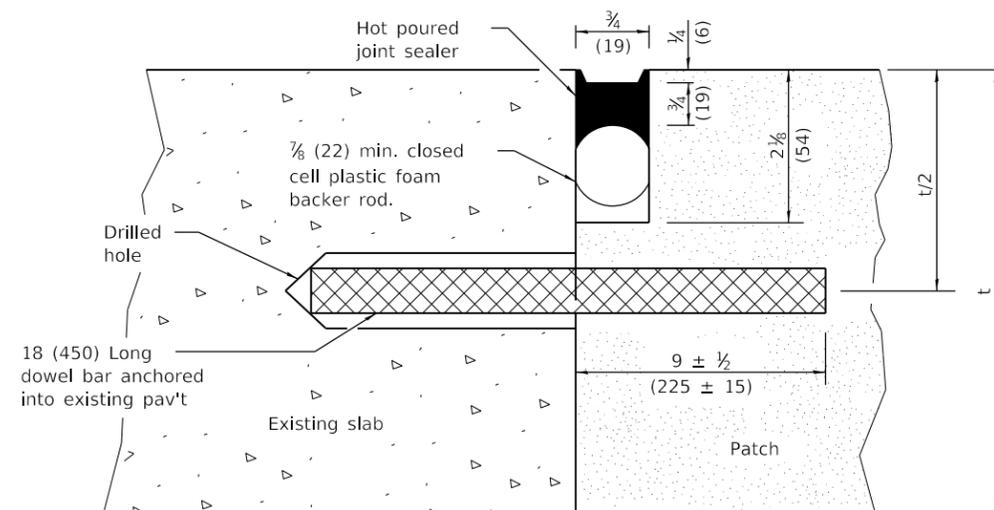
**12' (3.6 m) WIDE LANES**



**14' (4.2 m) WIDE RAMP**

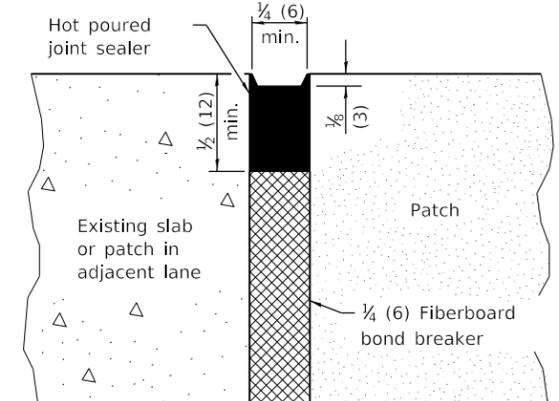


**16' (4.8 m) WIDE RAMP**



**TRANSVERSE JOINT**

DOWEL BAR TABLE		
PAVEMENT THICKNESS	DOWEL BAR DIAMETER	HOLE DIAMETER
10 (250) or greater	1 1/2 (38)	1 3/8 (41)
8 (200) thru 9.99 (249)	1 1/4 (32)	1 3/8 (35)
Less than 8 (200)	1 (25)	1 1/8 (29)



**CENTERLINE JOINT**

**GENERAL NOTES**

The transverse joints for Class B patches shall align with joints or cracks in the adjacent lane whenever possible.

See Standard 420701 for details of welded wire reinforcement.

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

DATE	REVISIONS
1-1-19	Revised reference to Standard 420701 in General Notes.
1-1-18	Revised DOWEL BAR TABLE.

**CLASS B PATCHES**

(Sheet 1 of 2)

**STANDARD 442101-09**

Illinois Department of Transportation

PASSED January 1, 2019

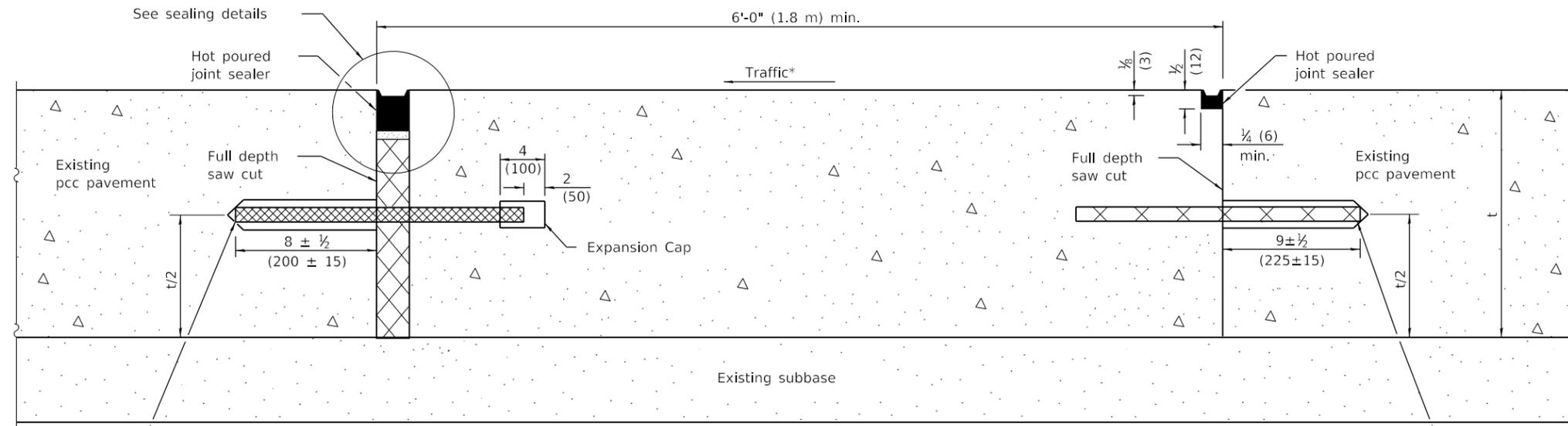
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-19

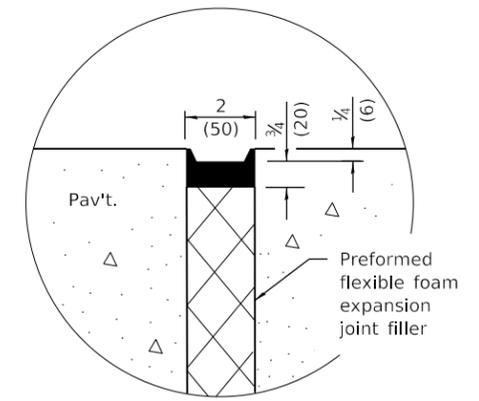
**TRANSVERSE EXPANSION JOINTS**



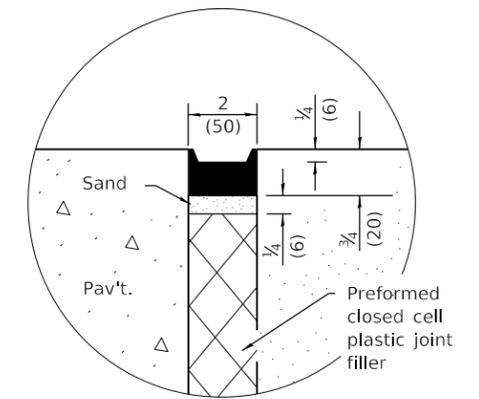
18 (450) Long dowel bars anchored into existing pavement at 12 (300) cts.

**METHOD I**  
(Without Resurfacing)

No. 10x18 (No. 32x450) Tie bars anchored into existing pavement at 12 (300) cts.



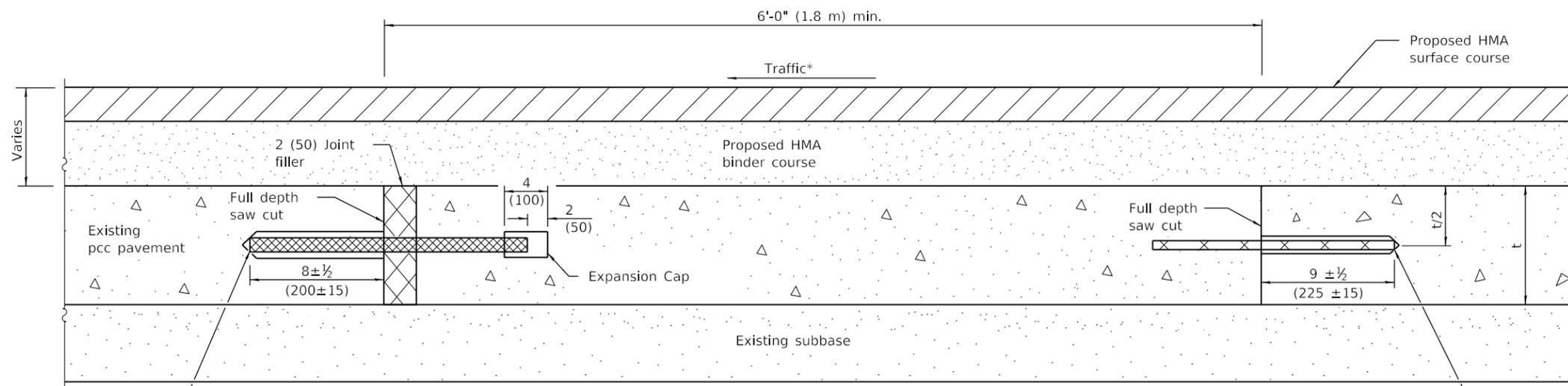
**SEALING DETAIL**



**SEALING DETAIL**

**NOTE**

\* When re-establishing a transverse expansion joint on a two-lane, two-way road, reverse the orientation of the dowel bars with respect to traffic for one of the patches such that the joint will be continuous across both lanes.



18 (450) Long dowel bars anchored into existing pavement at 12 (300) cts.

**METHOD II**  
(With Resurfacing)

No. 10x18 (No. 32x450) Tie bars anchored into existing pavement at 12 (300) cts.

Illinois Department of Transportation

PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

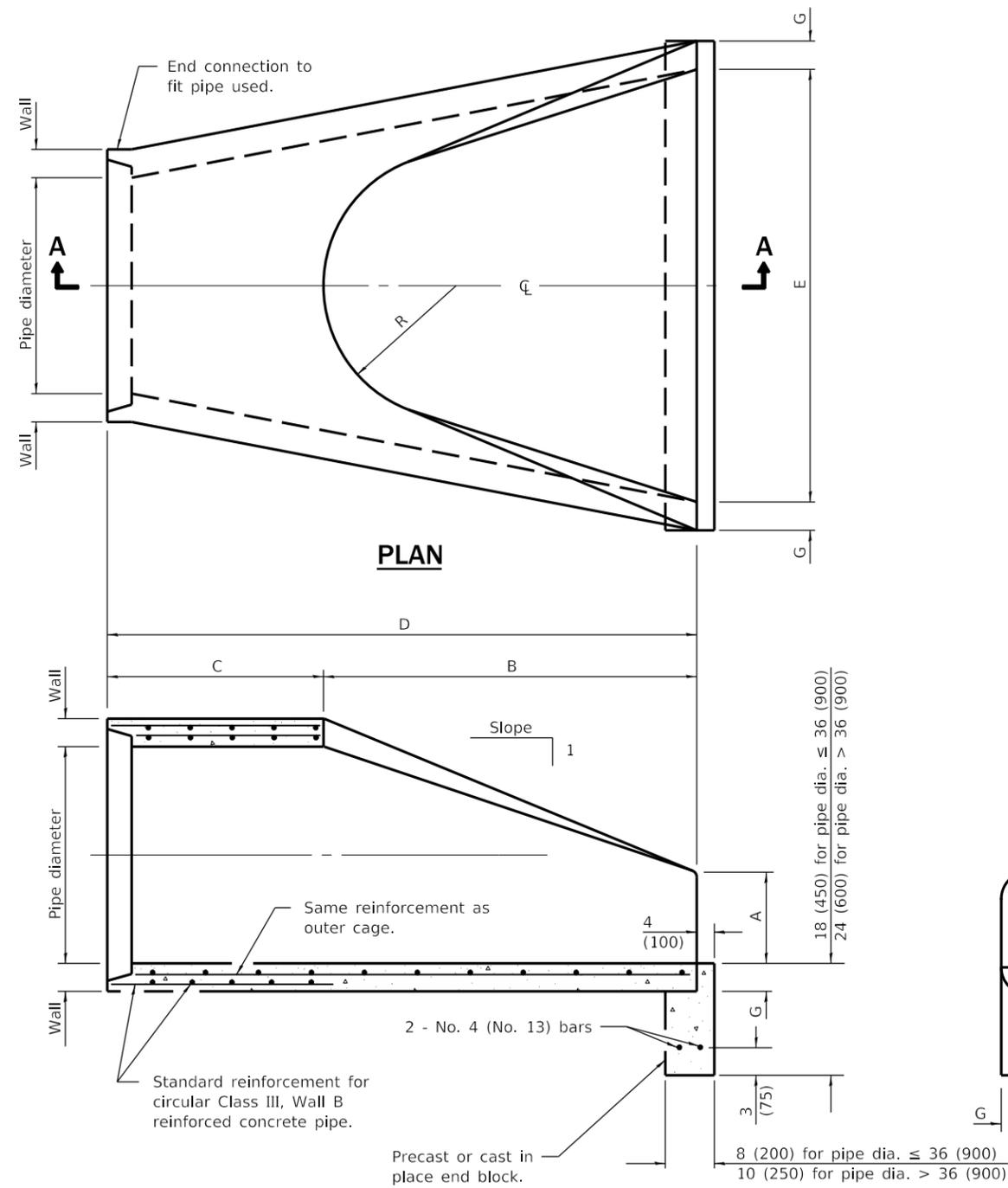
APPROVED January 1, 2019  
*John E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

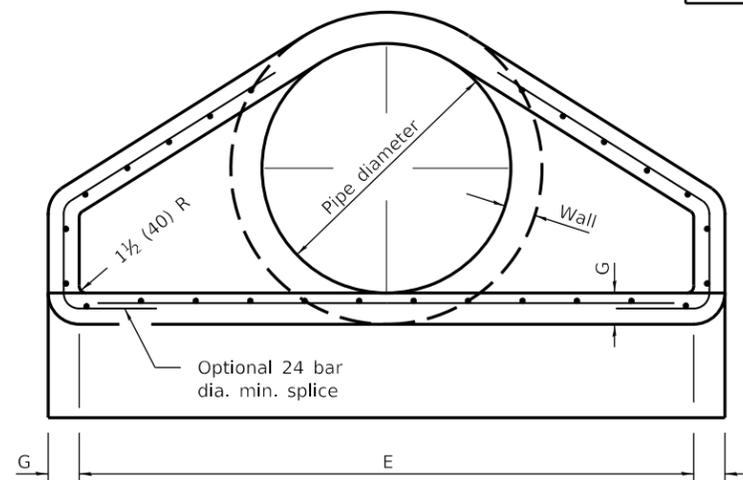
**CLASS B PATCHES**

(Sheet 2 of 2)

**STANDARD 442101-09**



**SECTION A-A**



**END VIEW**

PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0 7/8" (1.241 m)	6'-0 7/8" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2 1/4 (57)	6 (152)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2 1/4 (57)	11 (280)	1:2.4
18 (450)	990 (450)	2 1/2 (64)	9 (229)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	2 1/2 (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2 3/4 (70)	9 (229)	35 (889)	38 (965)	6'-1" (1.854 m)	3'-6" (1.067 m)	2 3/4 (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9 1/2 (241)	30 (762)	3'-7 1/2" (1.105 m)	6'-1 1/2" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3 1/4 (83)	10 1/2 (267)	4'-0" (1.219 m)	25 1/2 (648)	6'-1 1/2" (1.867 m)	4'-6" (1.372 m)	3 1/4 (83)	14 1/2 (368)	1:2.4
30 (750)	2190 (995)	3 1/2 (89)	12 (305)	4'-6" (1.375 m)	19 3/4 (502)	6'-1 3/4" (1.874 m)	5'-0" (1.524 m)	3 1/2 (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3 3/4 (95)	13 1/2 (343)	4'-10 1/2" (1.486 m)	39 1/4 (997)	8'-1 3/4" (2.483 m)	5'-6" (1.676 m)	3 3/4 (95)	17 1/2 (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-3" (1.6 m)	34 3/4 (883)	8'-1 3/4" (2.483 m)	6'-0" (1.829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4 1/2 (114)	21 (533)	5'-3" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4 1/2 (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5 1/2 (140)	27 (686)	5'-5" (1.651 m)	35 (889)	8'-4" (2.54 m)	7'-6" (2.286 m)	5 1/2 (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1.524 m)	39 (991)	8'-3" (2.515 m)	8'-0" (2.438 m)	5 (127)	*	1:1.9
66 (1650)	10710 (4860)	6 1/2 (165)	30 (762)	6'-0" (1.829 m)	27 (686)	8'-3" (2.515 m)	8'-6" (2.591 m)	5 1/2 (140)	*	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-3" (2.514 m)	9'-0" (2.743 m)	6 (152)	*	1:1.8
78 (1950)	14770 (6700)	7 1/2 (191)	36 (914)	7'-6" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6 1/2 (165)	*	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6 1/2" (2.299 m)	21 (533)	9'-3 1/2" (2.832 m)	10'-0" (3.048 m)	6 1/2 (165)	*	1:1.6

\* Radius as furnished by manufacturer

**GENERAL NOTES**

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

Illinois Department of Transportation

APPROVED January 1, 2011  
*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

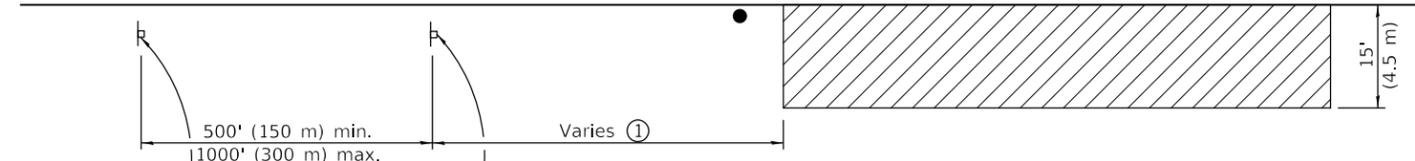
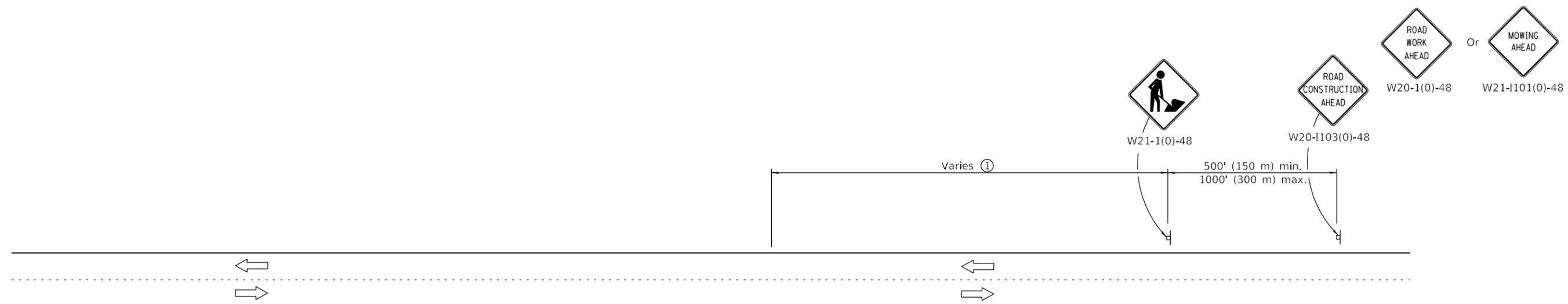
APPROVED January 1, 2011  
*Scott Schick*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

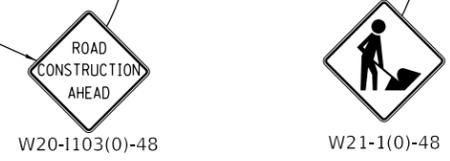
DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia. on Section A-A. Changed 'inner' to 'outer' cage ref.
1-1-09	Switched units to English (metric).

**PRECAST REINFORCED CONCRETE FLARED END SECTION**

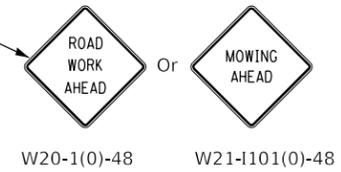
**STANDARD 542301-03**



For contract construction projects



For maintenance and utility projects



**TYPICAL APPLICATIONS**  
Shoulder work  
Utility operations

**SYMBOLS**

- Work area
- Sign
- Flagger with traffic control sign when required

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed 1/2 the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

**GENERAL NOTES**

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the shoulder, where the average speed is 1 mph (2 km/h) or less.

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

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

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

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

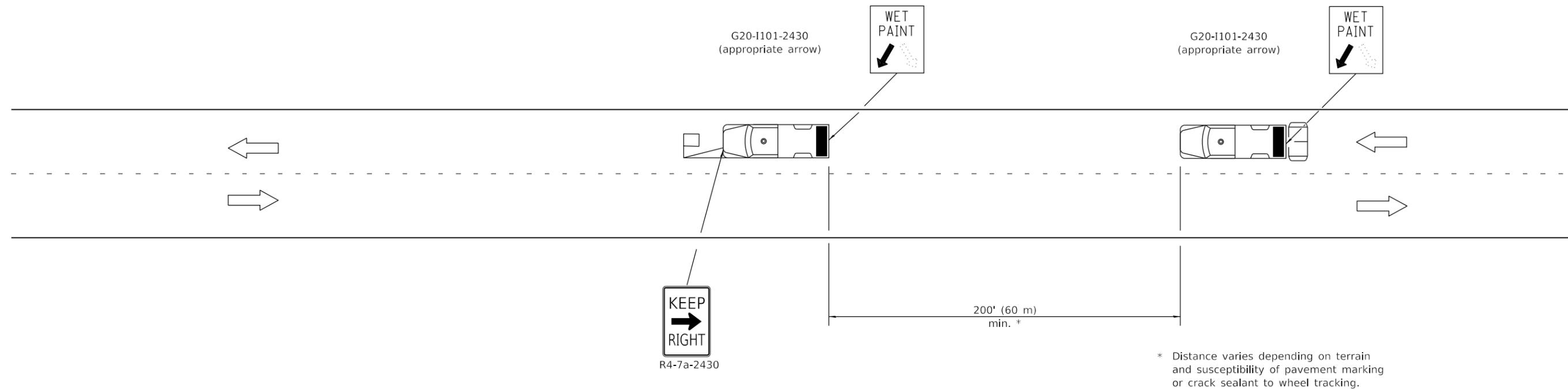
**STANDARD 701011-04**

Illinois Department of Transportation

PASSED January 1, 2014  
  
 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



**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.

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

**LANE CLOSURE 2L, 2W  
MOVING OPERATIONS-  
DAY ONLY**

**STANDARD 701311-03**

Illinois Department of Transportation

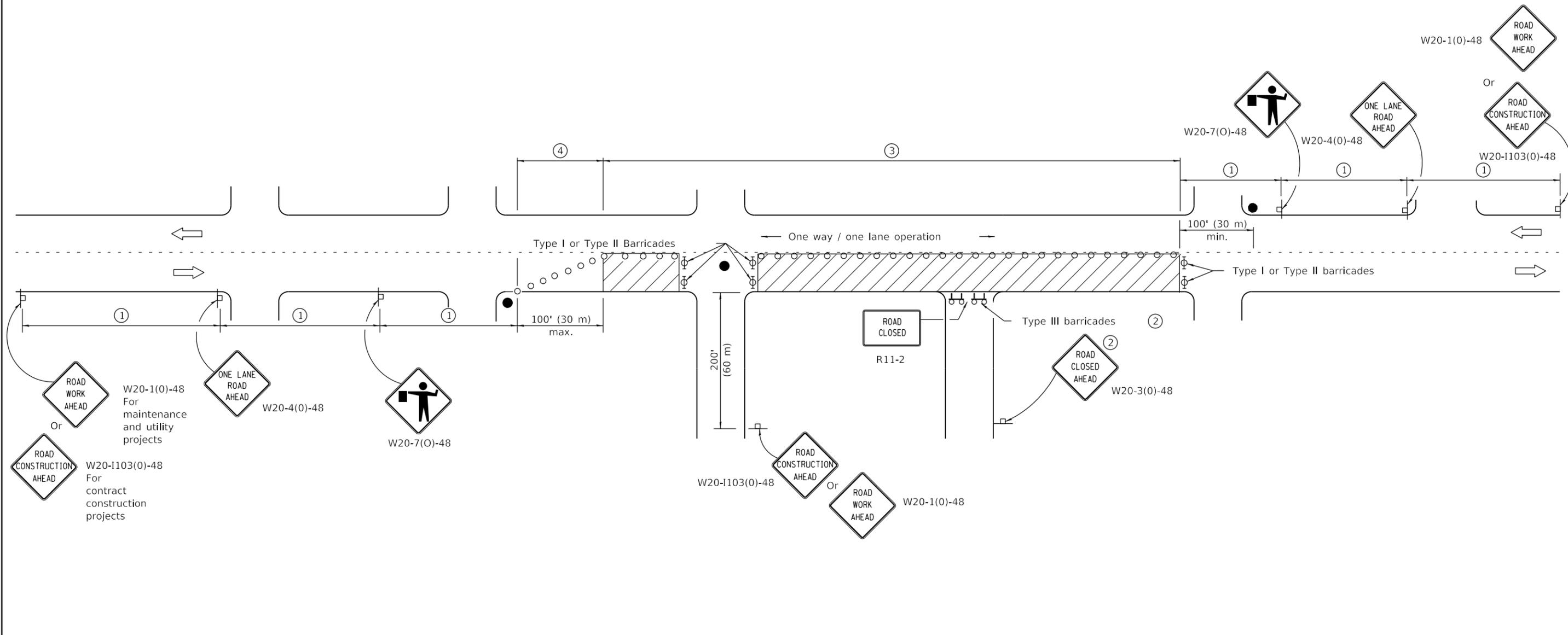
PASSED January 1, 2009

ENGINEER OF OPERATIONS *[Signature]*

APPROVED January 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT *[Signature]*

ISSUED 1-1-97



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

**SYMBOLS**

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sideroad closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

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

Illinois Department of Transportation

PASSED January 1, 2011  
*[Signature]*  
 ENGINEER OF SAFETY ENGINEERING

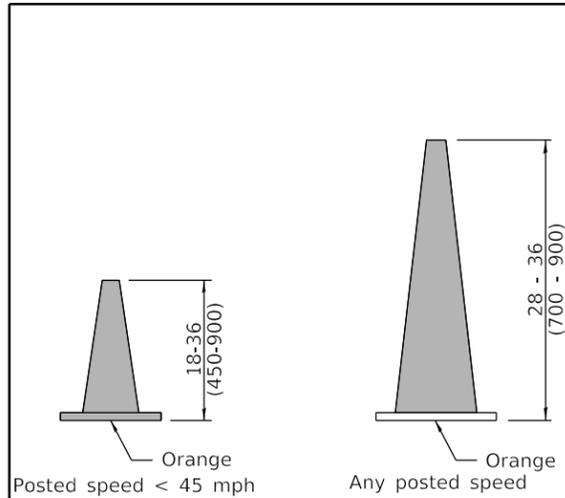
APPROVED January 1, 2011  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

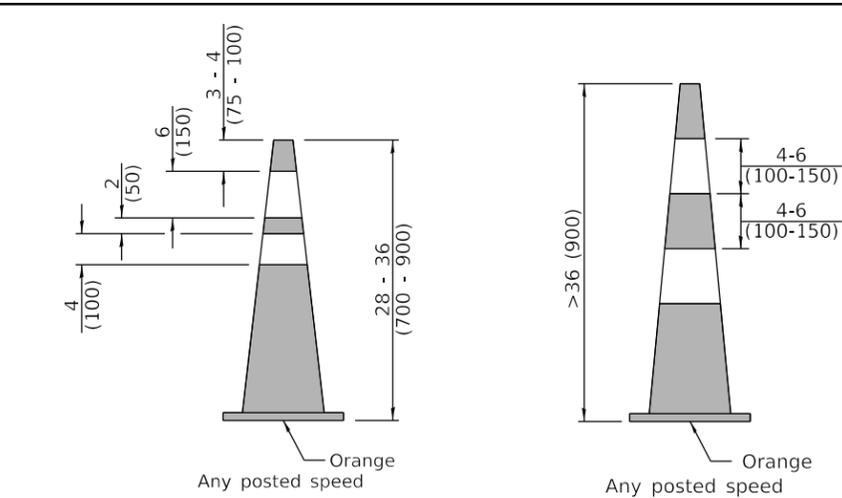
DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

**URBAN LANE CLOSURE,  
2L, 2W, UNDIVIDED**

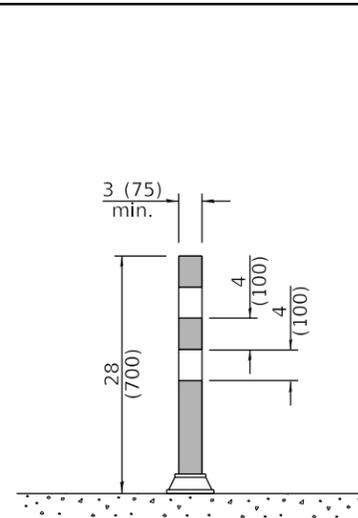
**STANDARD 701501-06**



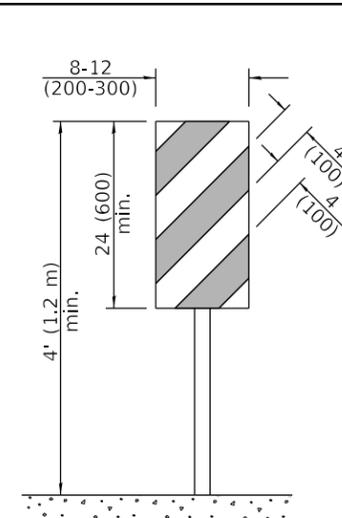
**DAYTIME USE**



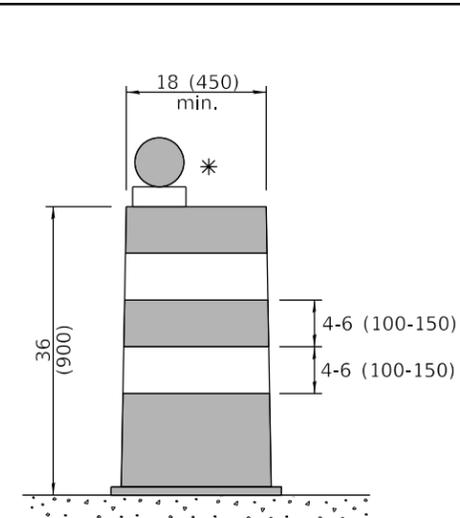
**DAY OR NIGHTTIME USE**



**TUBULAR MARKER**

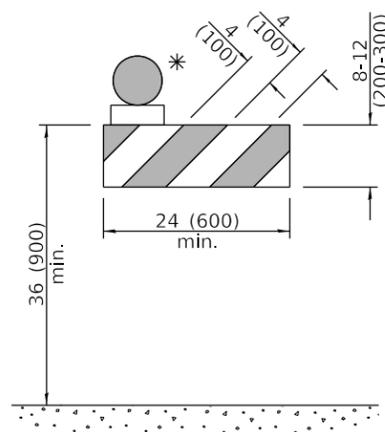


**VERTICAL PANEL  
POST MOUNTED**

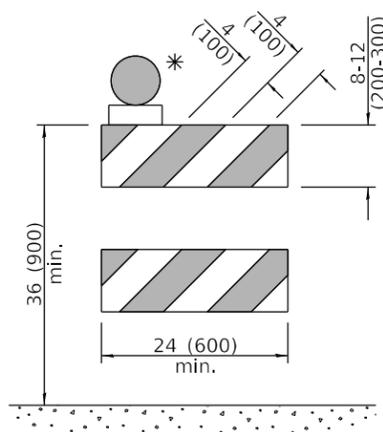


**DRUM**

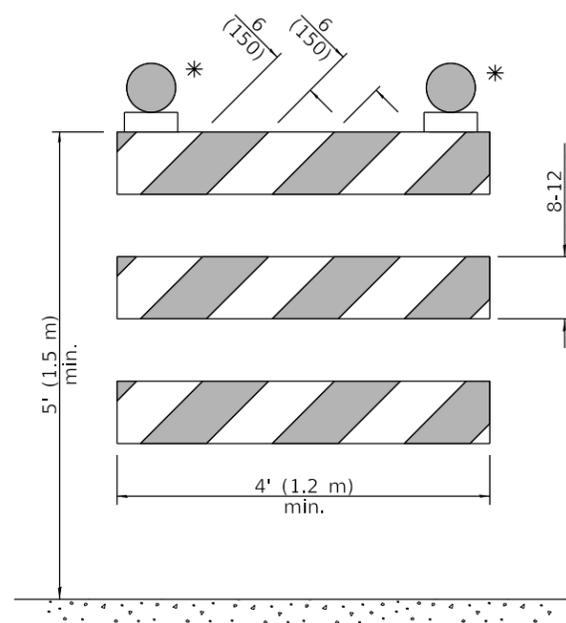
**CONES**



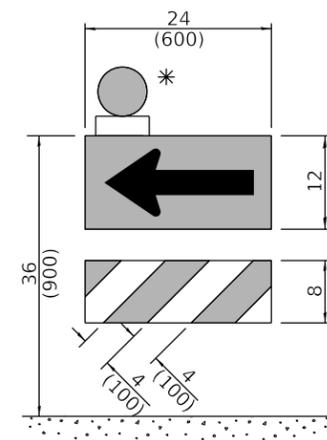
**TYPE I BARRICADE**



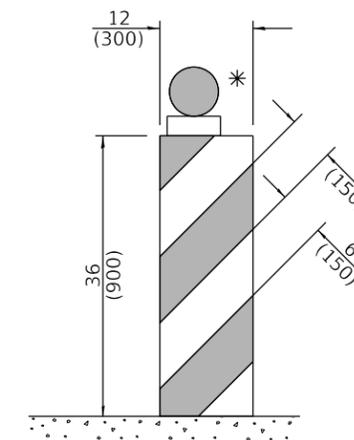
**TYPE II BARRICADE**



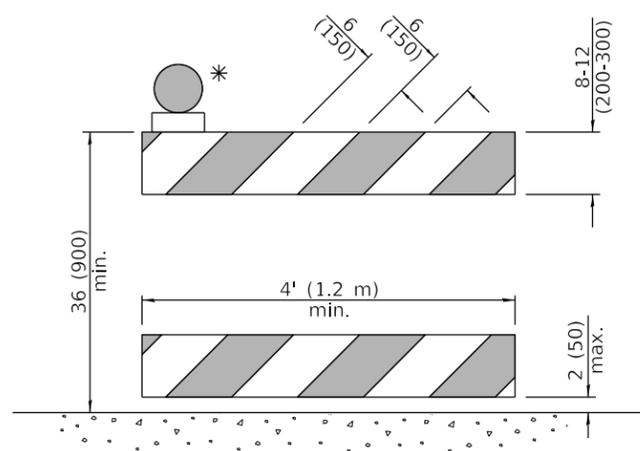
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**

All heights shown shall be measured above the pavement surface.

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

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

**TRAFFIC CONTROL DEVICES**

(Sheet 1 of 3)

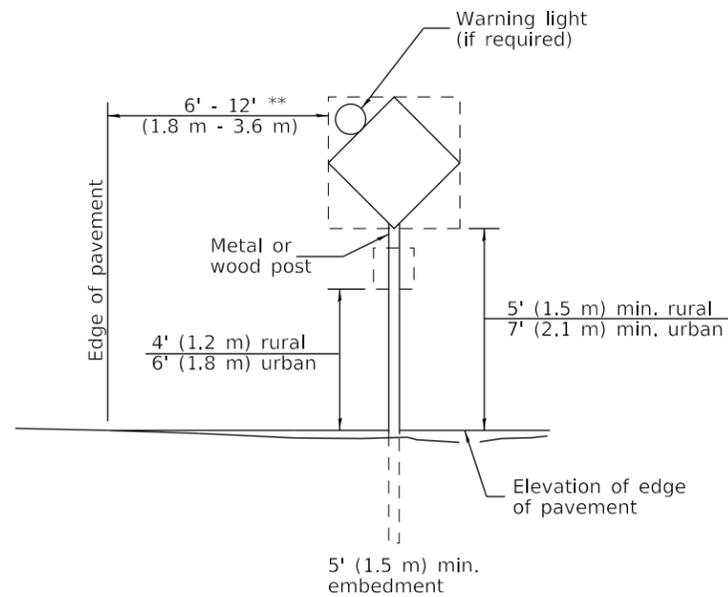
**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019  
  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

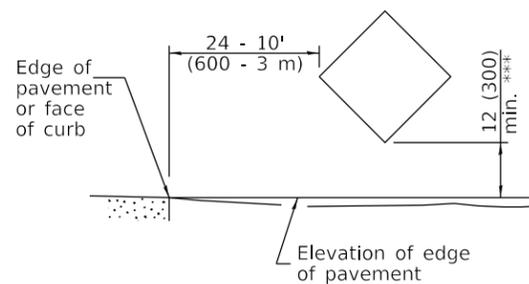
APPROVED January 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED  
 ET-1-1



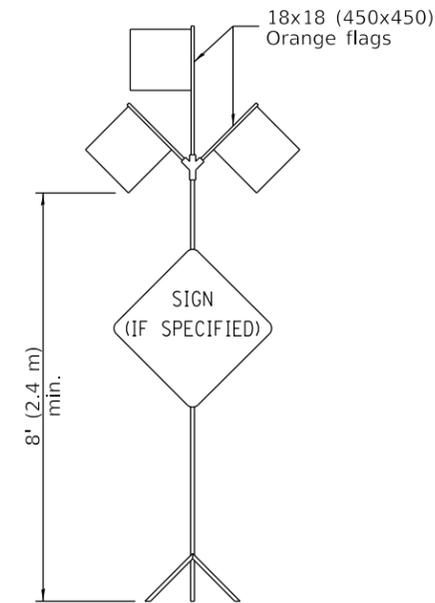
**POST MOUNTED SIGNS**

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



**SIGNS ON TEMPORARY SUPPORTS**

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

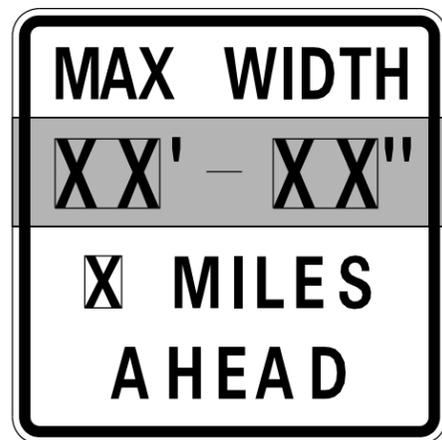


**HIGH LEVEL WARNING DEVICE**

ROAD CONSTRUCTION NEXT X MILES	END CONSTRUCTION
G20-I104(0)-6036	G20-I105(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.

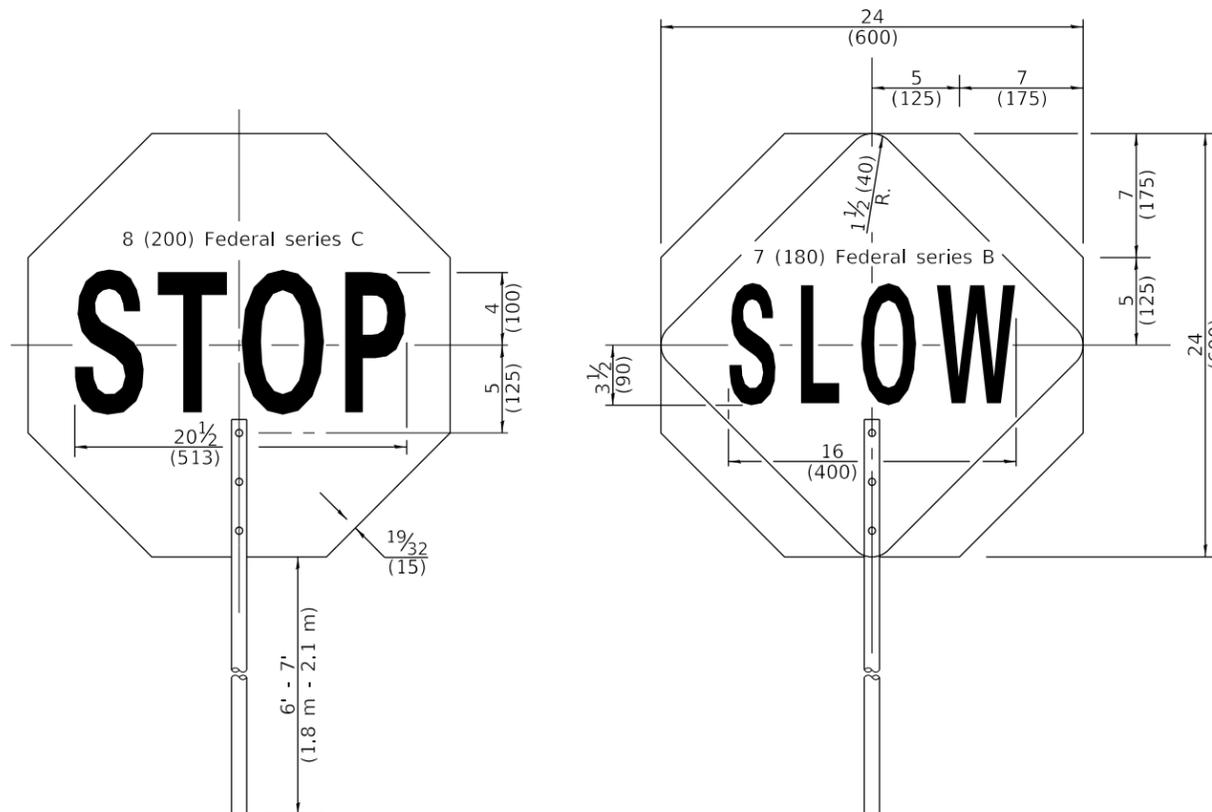
**WORK LIMIT SIGNING**



W12-I103-4848

**WIDTH RESTRICTION SIGN**

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



FRONT SIDE

REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**

WORK ZONE	W21-III5(0)-3618
SPEED LIMIT XX	R2-1-3648
PHOTO ENFORCED	R10-I108p-3618 ****
\$XXX FINE MINIMUM	R2-I106p-3618

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

END WORK ZONE SPEED LIMIT	G20-I103-6036
---------------------------	---------------

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

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\*\* R10-I108p shall only be used along roadways under the jurisdiction of the State.

**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

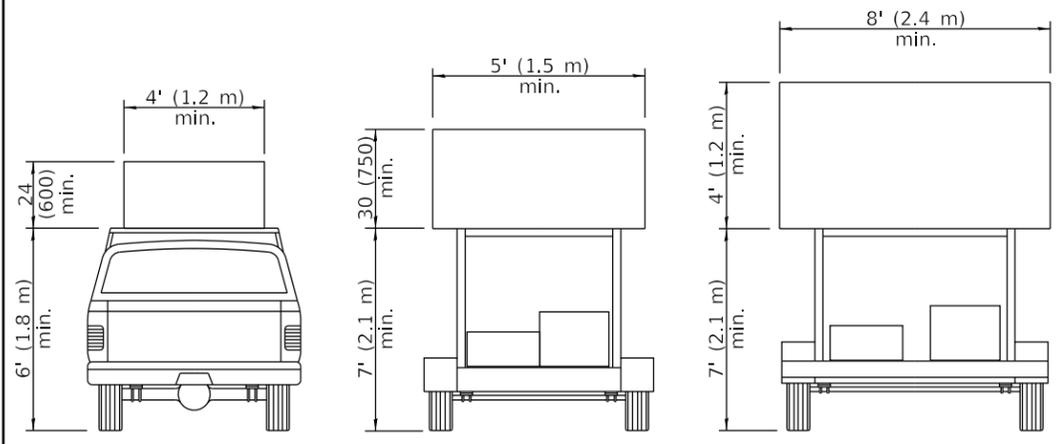
**STANDARD 701901-08**

Illinois Department of Transportation

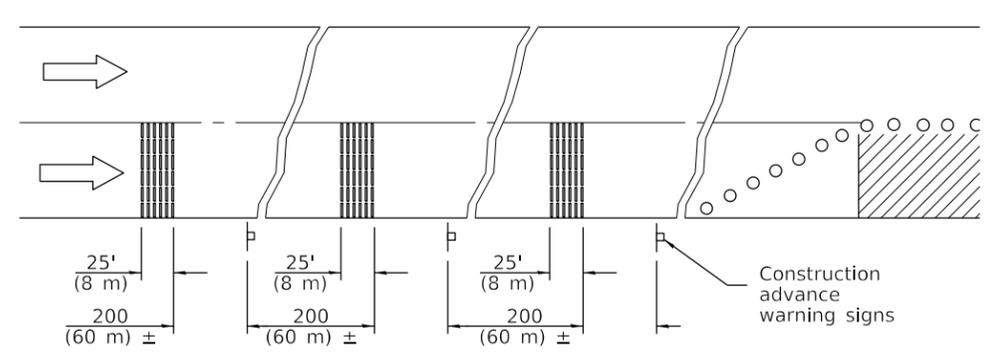
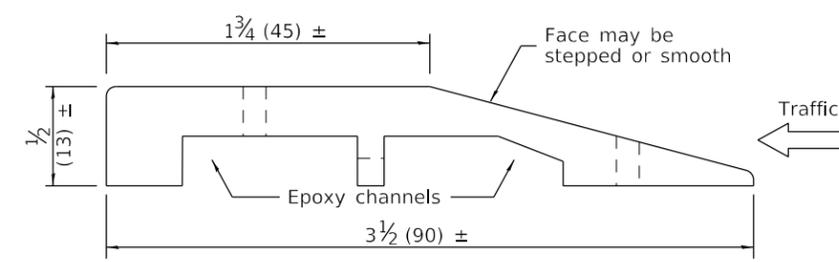
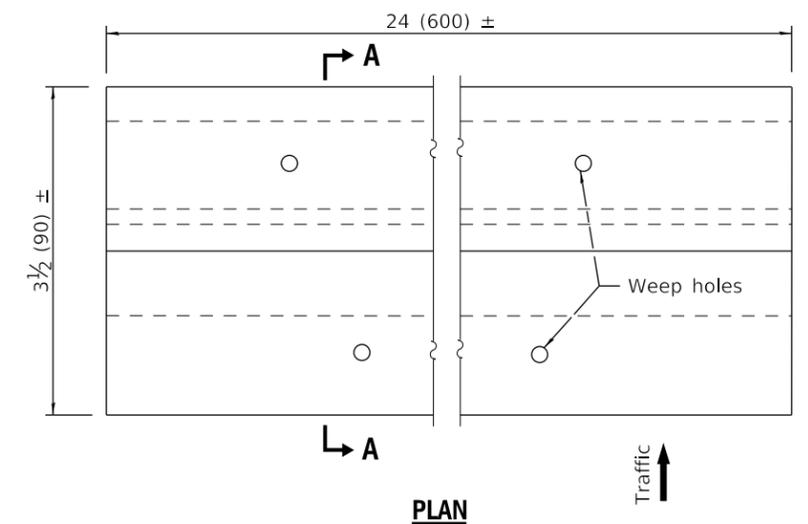
APPROVED January 1, 2019  
*[Signature]*  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

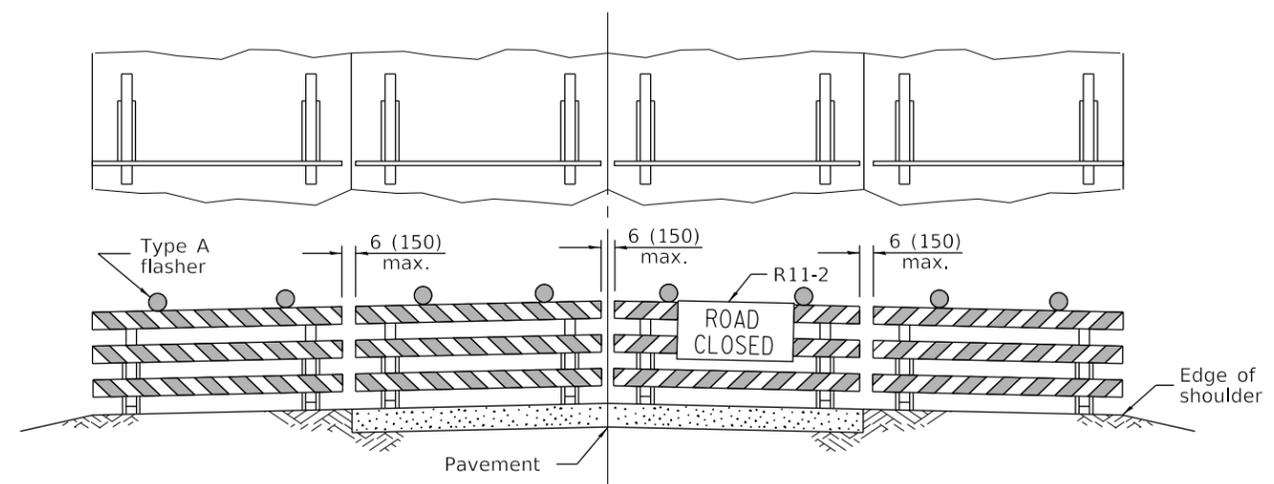
ISSUED 1-1-13



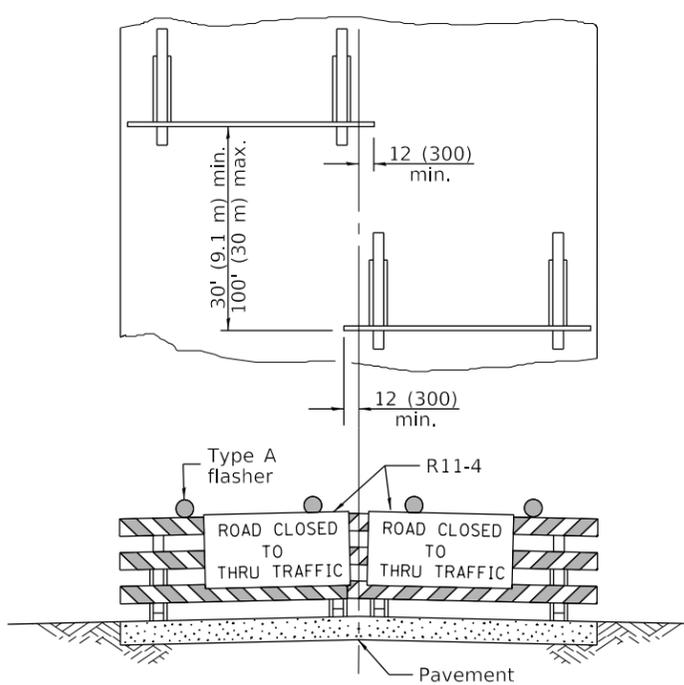
**ARROW BOARDS**



**TEMPORARY RUMBLE STRIPS**



Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



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

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

Illinois Department of Transportation

APPROVED January 1, 2019  
*Cynthia Watt*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

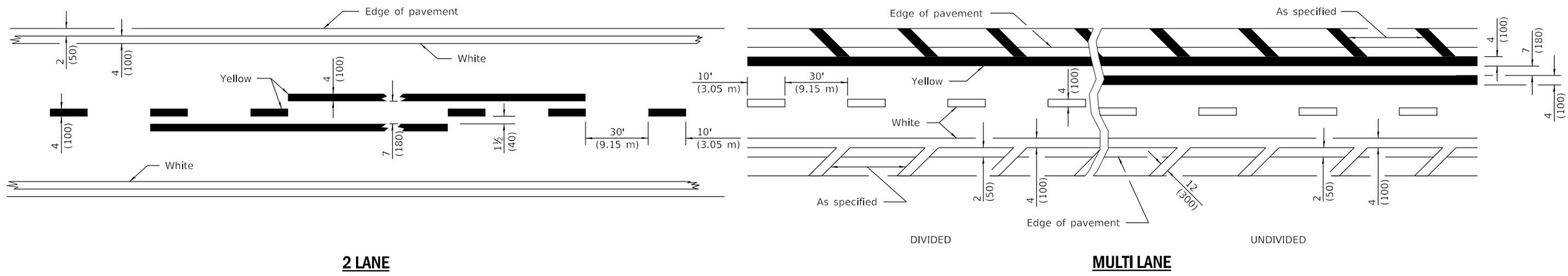
APPROVED January 1, 2019  
*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUES  
E1-1-1 Q35S1

**TRAFFIC CONTROL  
DEVICES**

(Sheet 3 of 3)

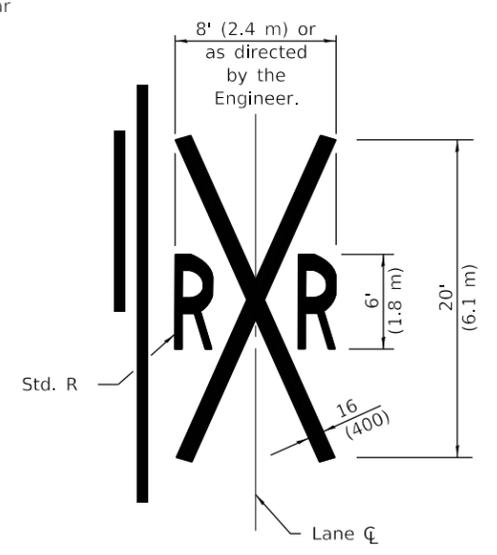
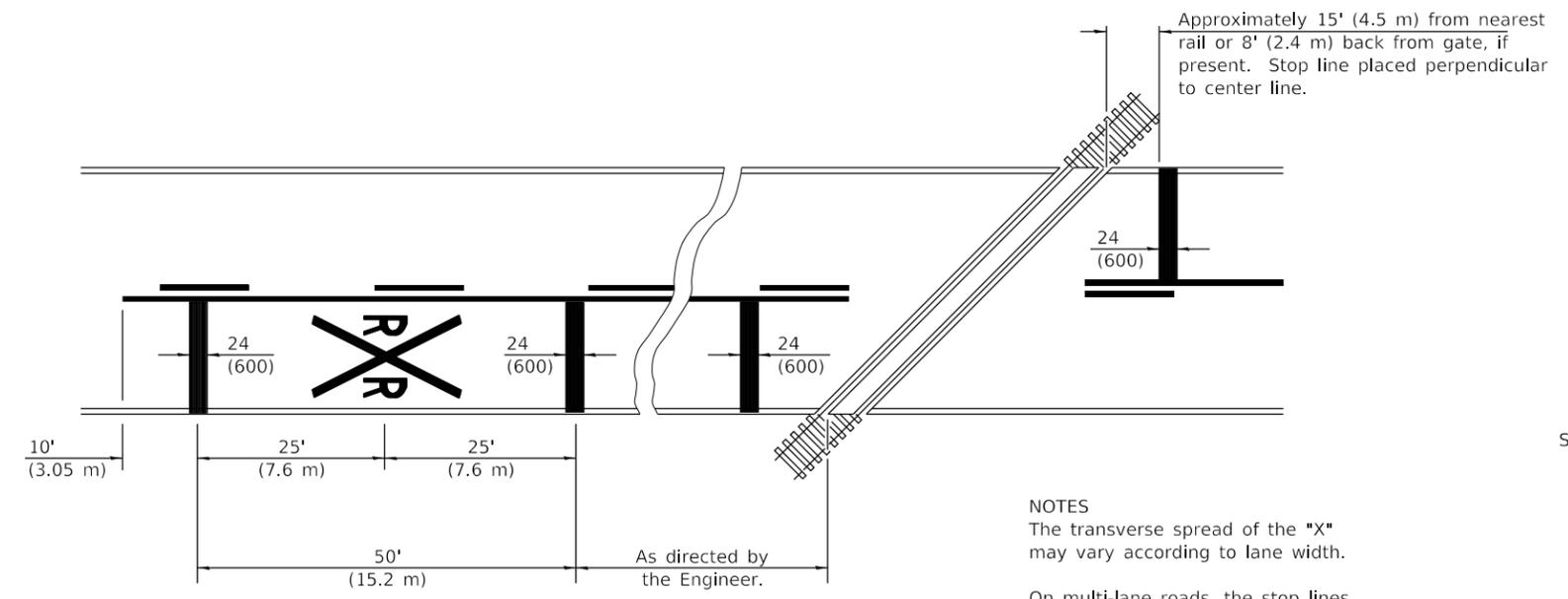
**STANDARD 701901-08**



**2 LANE**

**MULTI LANE**

**LANE AND EDGE LINES**



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

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

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

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

**TYPICAL PAVEMENT MARKINGS**

(Sheet 1 of 3)

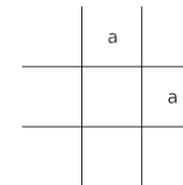
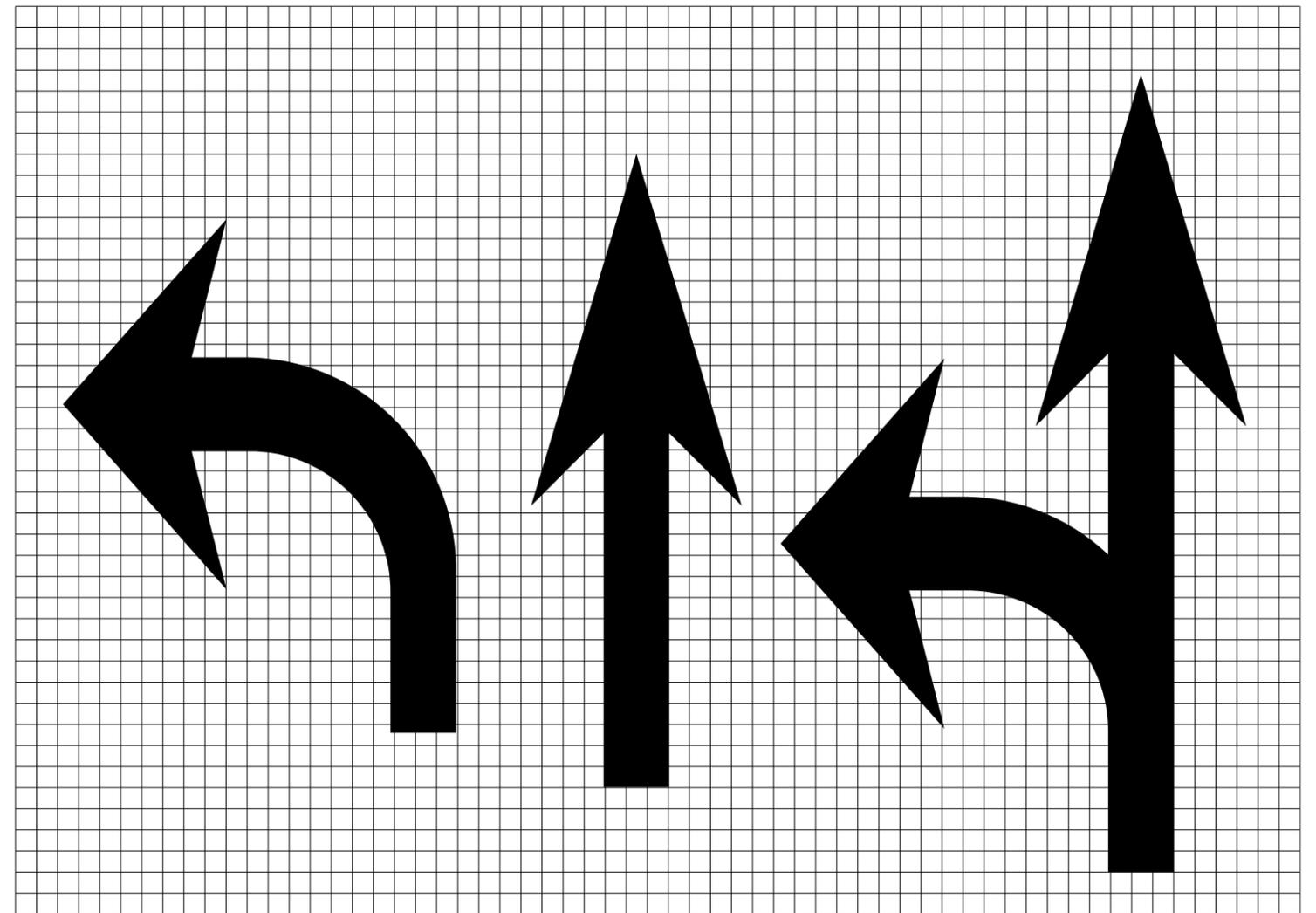
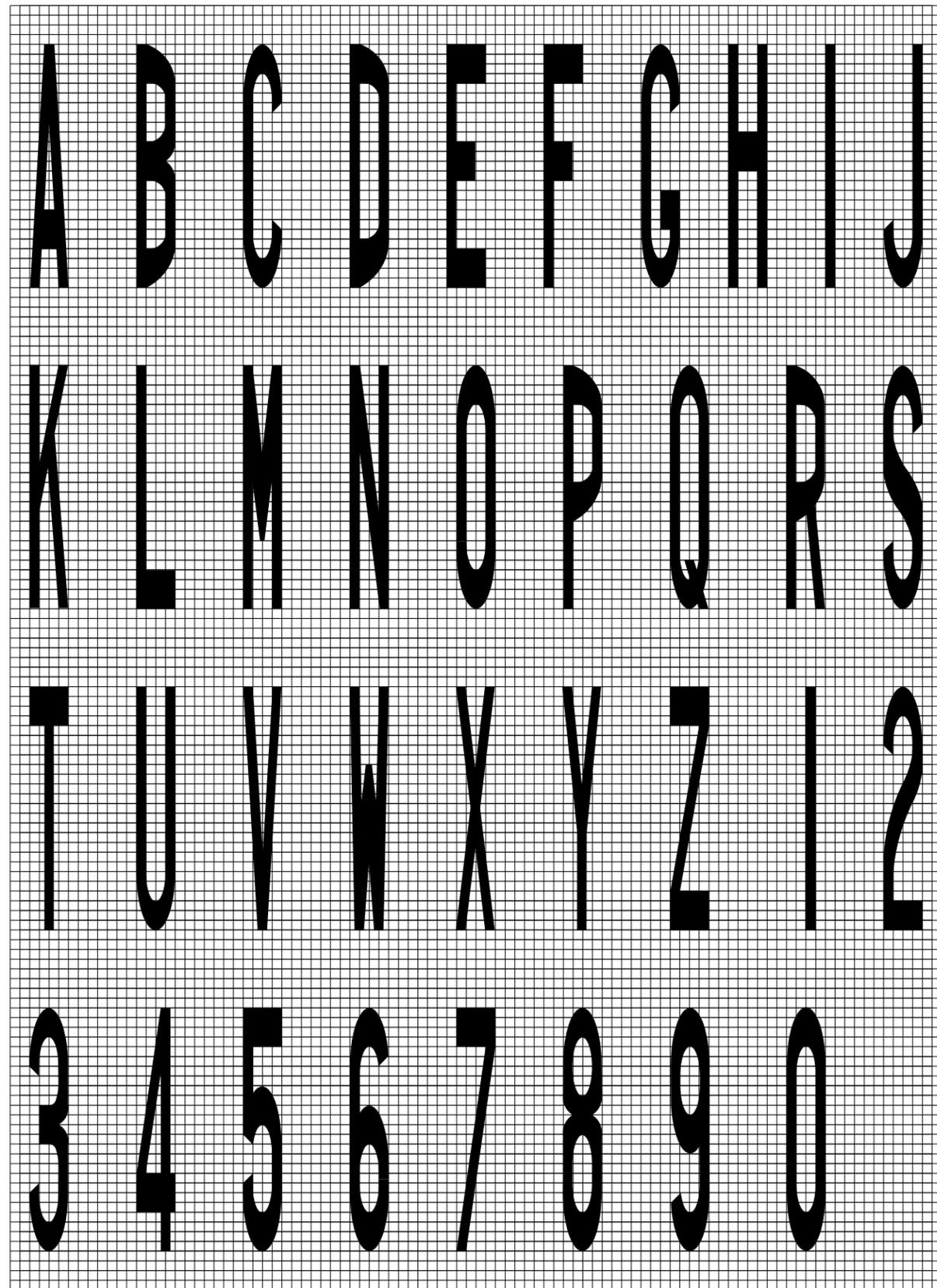
**STANDARD 780001-05**

Illinois Department of Transportation

PASSED January 1, 2015  
*Amy Allen*  
 ENGINEER OF OPERATIONS

APPROVED January 1, 2015  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



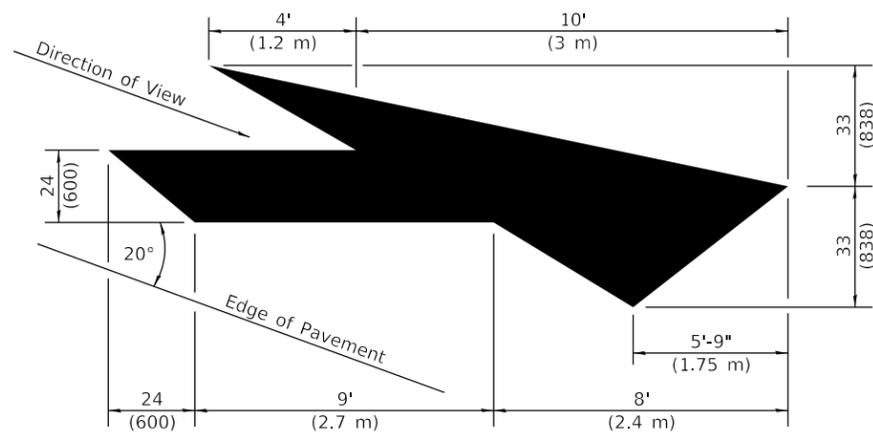
Legend Height	Arrow Size	a
6' (1.8 m)	Small	2.9 (74)
8' (2.4 m)	Large	3.8 (96)

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

**LETTER AND ARROW GRID SCALE**

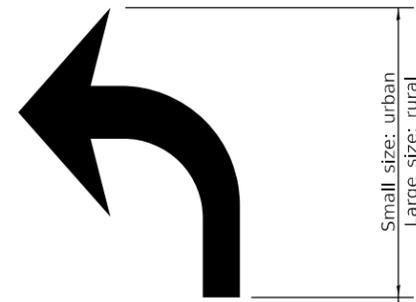

 Illinois Department of Transportation  
 PASSED January 1, 2015  
*Amy Eller*  
 ENGINEER OF OPERATIONS  
 APPROVED January 1, 2015  
*RE*  
 ENGINEER OF DESIGN AND ENVIRONMENT  
 ISSUED 1-1-97

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



**LANE-REDUCTION ARROW**

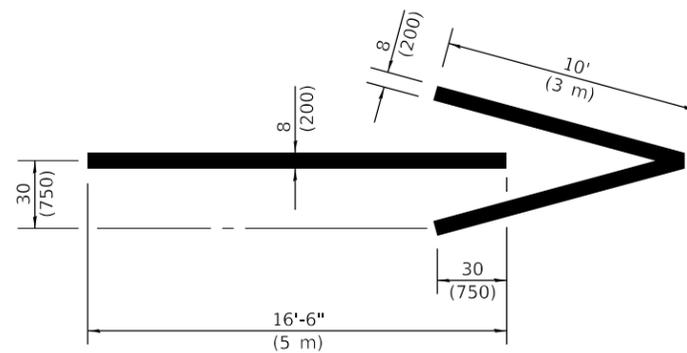
Right lane-reduction arrow shown.  
Use mirror image for left lane.



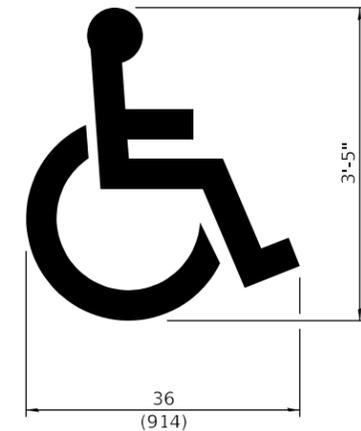
20' (6 m): urban  
50' (15 m): rural  
(Between arrow  
and word or  
between words)



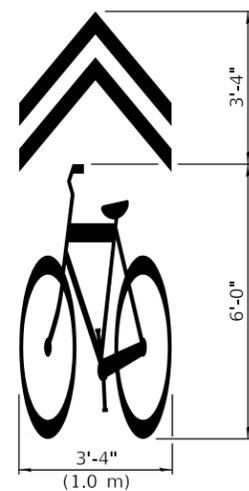
**WORD AND ARROW LAYOUT**



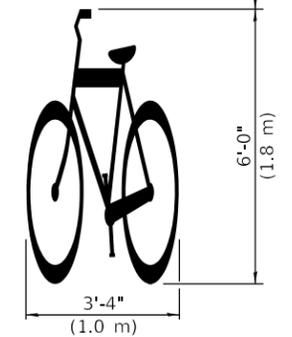
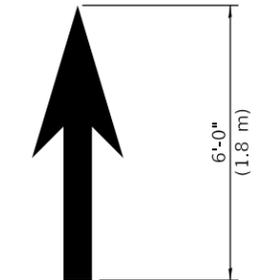
**WRONG WAY ARROW**



**INTERNATIONAL  
SYMBOL OF  
ACCESSIBILITY**



**SHARED LANE  
SYMBOL**



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

Illinois Department of Transportation

PASSED January 1, 2015  
*Amy Allen*  
 ENGINEER OF OPERATIONS

APPROVED January 1, 2015  
*[Signature]*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**TYPICAL PAVEMENT  
MARKINGS**

(Sheet 3 of 3)

**STANDARD 780001-05**

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO.	

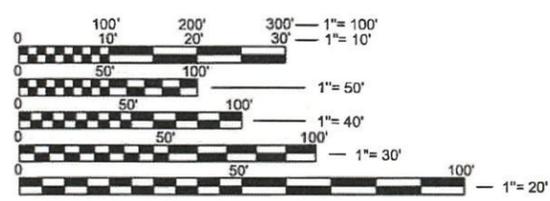
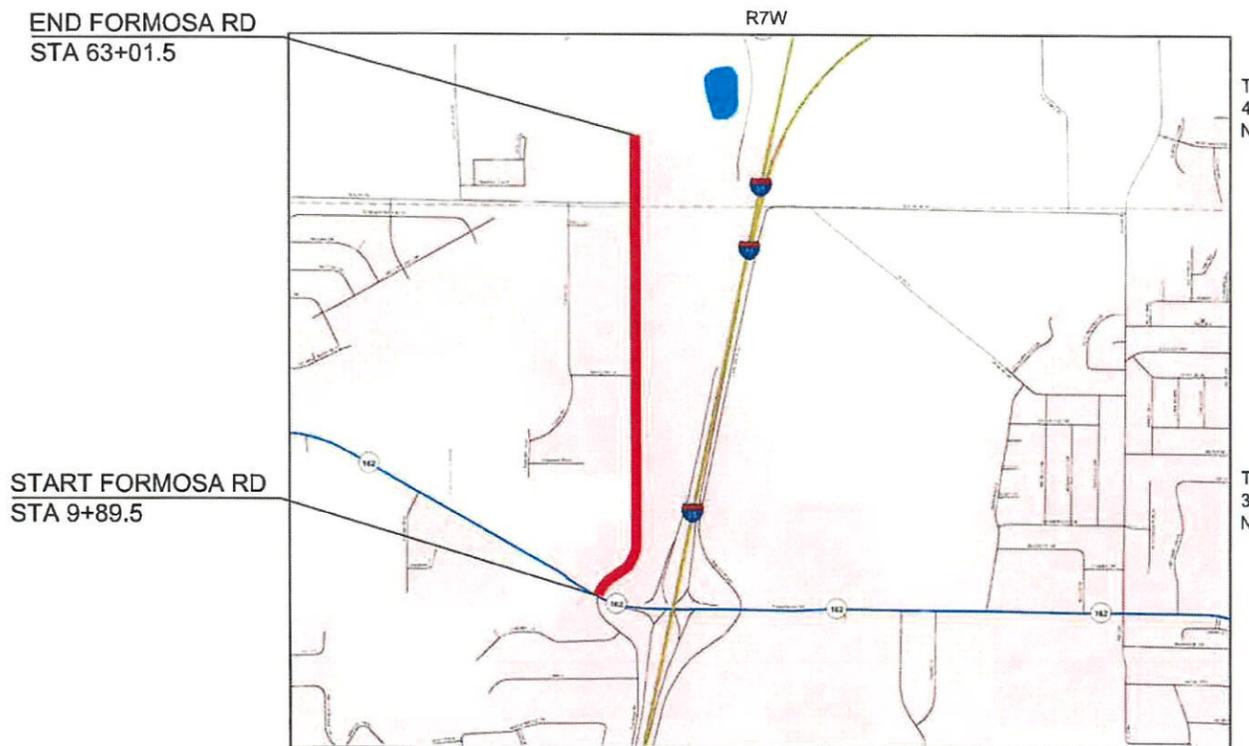
**INDEX OF SHEETS**

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5-6	SCHEDULES
7-10	PATCHING AND CRACK FILLING PLANS
11-14	OVERLAY AND PAVEMENT MARKING PLANS
15	REPROFILING AND CULVERT SECTION
16	TRAFFIC CONTROL PLAN
17	CONSTRUCTION DETAILS

**HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442101-09	CLASS B PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLANS FOR PROPOSED**  
MFT FUNDS  
CITY OF TROY  
FORMOSA ROAD PATCHING AND RESURFACING  
MADISON COUNTY  
SECTION: 22-00037-00-RS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

**DESIGN DESIGNATION**

ROADWAY CLASSIFICATION = LOCAL ROAD  
DESIGN SPEED = 30 MPH  
CURRENT ADT = 1150  
DESIGN YEAR ADT = 1300

**LOCATION MAP**

SCALE: 1" = 1000'  
TOTAL LENGTH OF FORMOSA ROAD = 5312.0 FT (1.006 MILES)



*Thomas Cissell*  
TOM CISSELL, P.E.  
IL P.E. NO. 062-056015  
EXPIRES: 12/31/2023  
DATE 07/31/2023

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED 8-7-23 Date  
*Dawn May*  
City of Troy, Mayor

PASSED 9-28-2023 Date  
*[Signature]*  
District # 8 Engineer of Local Roads & Streets

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW 9-28-2023 Date  
*[Signature]*  
Deputy Director of Highways, Region # 5 Engineer

**OATES ASSOCIATES**  
100 Lanter Court, Suite 1  
Collinsville, IL 62234  
618.345.2200  
www.oatesassociates.com  
Collinsville St. Louis Belleville St. Charles  
ILLINOIS DESIGN FIRM LICENSE NO. 144.661115

**PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS**

CONTRACT NO. \_\_\_\_\_

## GENERAL NOTES

### UTILITIES

- EXISTING UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. ILLINOIS LAW REQUIRES A MINIMUM 48-HOUR NOTICE TO ALL UTILITY COMPANIES BEFORE DIGGING. FIELD LOCATIONS OF UNDERGROUND FACILITIES MAY BE OBTAINED BY CALLING THE J.U.L.I.E. SYSTEM AT 800-892-0123 AND PROVIDING 48 HOURS ADVANCE NOTICE. NON-J.U.L.I.E. MEMBERS MUST BE CONTACTED DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED BELOW.
- ABOVE-GROUND UTILITY FACILITIES OR APPURTENANCES SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS TO PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 1.5 FEET, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT.
- THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. ALL ARE MEMBERS OF J.U.L.I.E., UNLESS NOTED OTHERWISE.

AMEREN IP (GAS & ELECTRIC) 2600 NORTH CENTER MARYVILLE, IL 62062	AT&T (TELEPHONE) 150 WEST DIVISION ST MARYVILLE, IL 62062	CHARTER COMMUNICATIONS (CABLE TV) 815 CHARTER COMMONS STREET TOWN & COUNTRY, MO 63017
VERIZON COMMUNICATIONS 111 EAST STATE STREET MASCOUTAH, IL 62258	CITY OF TROY (WATER & SEWER) 116 E MARKET ST TROY, IL 62220	CLEARWAVE COMMUNICATIONS (FIBER) 6719 IL-4 MASCOUTAH, IL 62258

THE ABOVE INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO THE OWNER AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING THE BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY CONFLICTS.

- THE CONTRACTOR SHALL VERIFY ALL UTILITIES IN THE FIELD, INCLUDING POTHOLING POTENTIAL UTILITY CONFLICTS, PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.

### GENERAL

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION, UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE PROPERTY OWNER AND SUCH APPROVAL IS COPIED TO THE ENGINEER. AGGREGATE FOR TEMPORARY ACCESS OR OTHER TEMPORARY ELEMENTS MAY BE REQUIRED. THE COST OF ALL MATERIALS AND LABOR REQUIRED TO COMPLY WITH THIS PROVISION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL FERTILIZE, SEED, AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION. FERTILIZER, SEEDING, AND MULCHING SHALL BE ACCORDING TO THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". FERTILIZER, SEEDING AND MULCH WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING, AND MULCH OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT. SEE THE SEEDING SCHEDULE FOR ESTIMATED PLAN QUANTITIES.
- ALL EXISTING ROADWAY FEATURES INCLUDING, BUT NOT LIMITED TO, PAVEMENT, CURB, CULVERTS, RIPRAP, WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR UNLESS NOTED OTHERWISE ON THE PLANS. ALL FEATURES WHICH ARE TO BE REMOVED AND FOR WHICH THERE IS NO SPECIFIC PAY ITEM, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT AND THE COST OF THIS REMOVAL WORK SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS REMOVAL ITEMS IN THE CONTRACT.

### PAVING

- THE CONTRACTOR SHALL NOTE THE LOCATION OF ALL MANHOLE AND VALVE COVER FRAMES AND LIDS LOCATED WITHIN CONSTRUCTION LIMITS. APPROPRIATE CARE SHALL BE TAKEN TO PROTECT THESE ITEMS DURING CONSTRUCTION.
- THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURES ARE PLACED.
- HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR ALL PCC PATCHING. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS PATCHING ITEMS INCLUDED IN THE CONTRACT.

### DRAINAGE

- STORM SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE STORM SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF STORM SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE. FLARED END SECTIONS ARE LOCATED BY STATION AND FLOWLINE ELEVATION AT THE FLARED END OF THE FLARED END SECTION.
- STORM SEWERS AND CULVERTS MAY HAVE MINIMAL DEPTH BELOW THE AGGREGATE BASE LAYER. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY TO PROTECT THE PIPES FROM DAMAGE DURING CONSTRUCTION. IN THE EVENT THAT PIPES ARE DAMAGED, THEY SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. ALL COSTS INCURRED TO REPAIR OR REPLACE DAMAGED PIPES SHALL BE AT THE CONTRACTOR'S EXPENSE.

### PAVEMENT MARKING

- THE PAVEMENT MARKING LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. PROPOSED CROSSWALKS AND STOP BARS SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER, IF NECESSARY, TO MATCH FIELD CONDITIONS.

### APPROXIMATE QUANTITIES, SYMBOLS, & ABBREVIATIONS

- THE FOLLOWING ITEMS AND APPROXIMATE QUANTITIES ARE INCLUDED IN THE "SUMMARY OF QUANTITIES" IN ORDER TO ESTABLISH A UNIT COST FOR WORK WHICH MAY BE REQUIRED TO CONSTRUCT THIS SECTION. THE ACTUAL QUANTITY OF EACH ITEM SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CRACK FILLING	5,407	POUND
CRACK FILLING WITH BACKER ROD	2,978	FOOT

- THE FOLLOWING SYMBOLS AND ABBREVIATIONS SUPPLEMENT OR SUPERCEDE HIGHWAY STANDARD 000001:

BC	BACK OF CURB
DND	DO NOT DISTURB
TBA	TO BE ADJUSTED
TBRL	TO BE RELOCATED
SW	SIDEWALK
W	WIDTH

### COMMITMENTS

NONE

FILE NAME = 221081 - COVER & GEN NOTES.DWG

 OATES ASSOCIATES www.oatesassociates.com ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115	USER NAME = DAYNE THORP	DESIGNED - RDG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FORMOSA ROAD PATCHING AND RESURFACING GENERAL NOTES, UTILITIES, & COMMITMENTS	M.U.N. RTE. 6041	SECTION 22-00037-00-RS	COUNTY MADISON	TOTAL SHEETS 17	SHEET NO. 02
	PLOT SCALE =	CHECKED - TLC	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	CONTRACT NO.	
	PLOT DATE = 2023-08-01	DATE - 2023-06-01	REVISED -			FED. ROAD DIST. NO. ... ILLINOIS FED. AID PROJECT				

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		20200100	EARTH EXCAVATION	CU YD	200
		20400800	FURNISHED EXCAVATION	CU YD	100
	*	25000110	SEEDING, CLASS 1A	ACRE	1.3
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	117
		25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	117
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	117
		25100105	MULCH, METHOD 1	ACRE	1.3
		25100630	EROSION CONTROL BLANKET	SQ YD	430
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	130
		28000305	TEMPORARY DITCH CHECKS	FOOT	12
		28000500	INLET AND PIPE PROTECTION	EACH	1
		40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	426
		40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70 (3")	TON	865
		40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,623
		40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING (ENTRANCES)	TON	113
	*	44200948	PCC PATCHING, CL B, TY 1, 9"	SQ YD	7
	*	44200956	PCC PATCHING, CL B, TY 2, 9"	SQ YD	618

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	*	44200962	PCC PATCHING, CL B, TY 3, 9"	SQ YD	56
	*	44200964	PCC PATCHING, CL B, TY 4, 9"	SQ YD	416
		45100200	CRACK FILLING	POUND	5,407
		48100300	AGGREGATE SHOULDERS, TY A 4"	SQ YD	2,312
	*	542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	32
		54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2
		67100100	MOBILIZATION	L SUM	1
		78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	55
		78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	17,815
		78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	235
		78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	32
	*	X1500004	BITUMINOUS SURFACE TREATMENT, A1	SQ YD	5,828
	*	X4060987	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT (SPECIAL)	SQ YD	681
	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
	*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
	*		CRACK FILLING WITH BACKER ROD	FOOT	2,978

FILE NAME = 221081 - SOQ & SCHEDULES.DWG



USER NAME = DAYNE THORP  
 DESIGNED - RDG  
 DRAWN - RDG  
 CHECKED - TLC  
 PLOT SCALE =  
 PLOT DATE = 2023-08-01  
 DATE - 2023-06-01  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

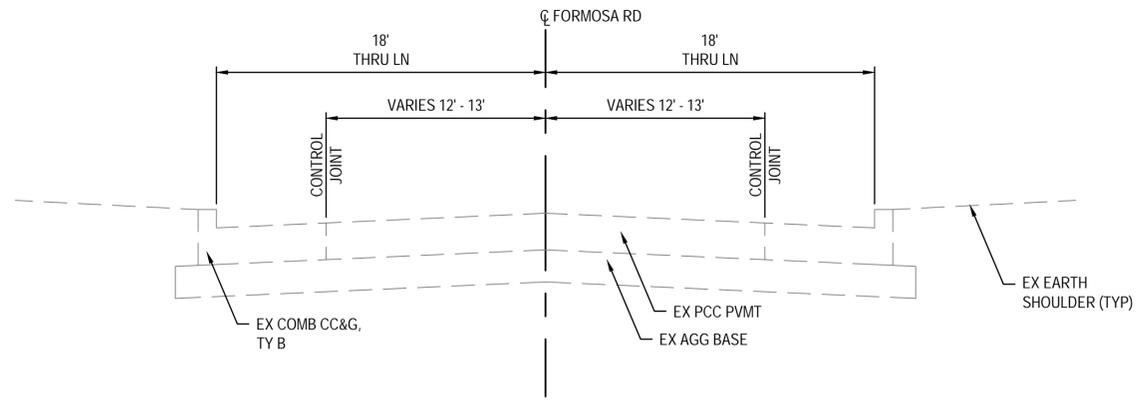
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FORMOSA ROAD PATCHING AND RESURFACING  
SUMMARY OF QUANTITIES

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	03
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

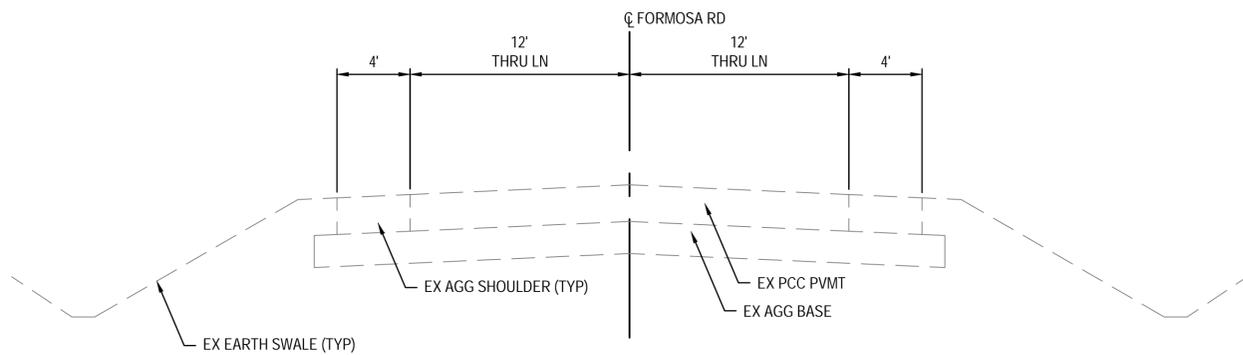
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115



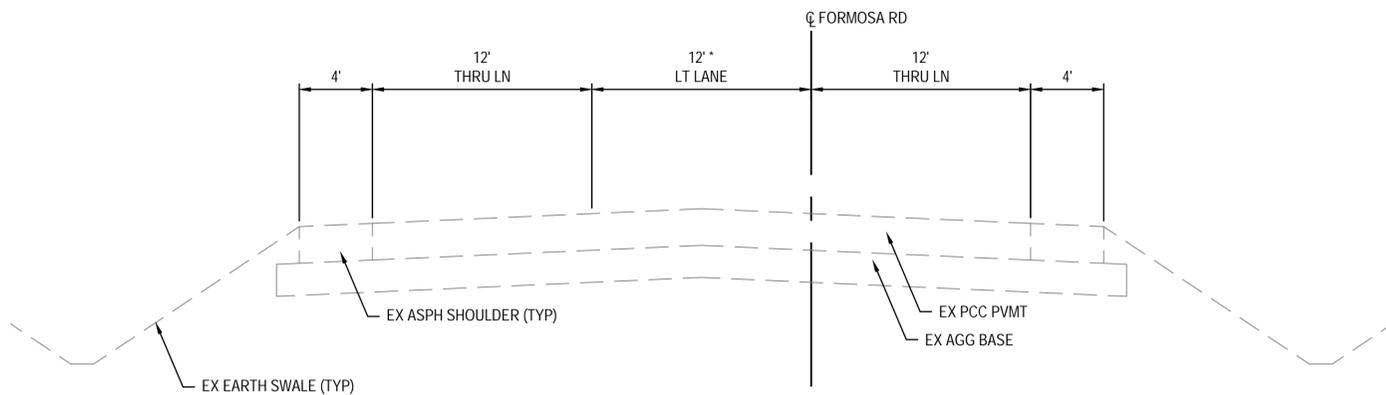
**EXISTING FORMOSA RD SECTION**

\* LANE WIDTH VARIES FROM 12' TO 18' FROM STA. 39+01.6 TO STA. 40+82.0  
 STA. 59+24.2 TO STA. 63+01.5  
 INTERSECTION STA. 58+44.0 TO STA. 59+24.2 (RESOURCE DR)  
 STA. 55+61.4 TO STA. 58+44.0  
 INTERSECTION STA. 54+64.7 TO STA. 55+61.4 (BOUSE RD)  
 STA. 39+01.6 TO STA. 54+64.7



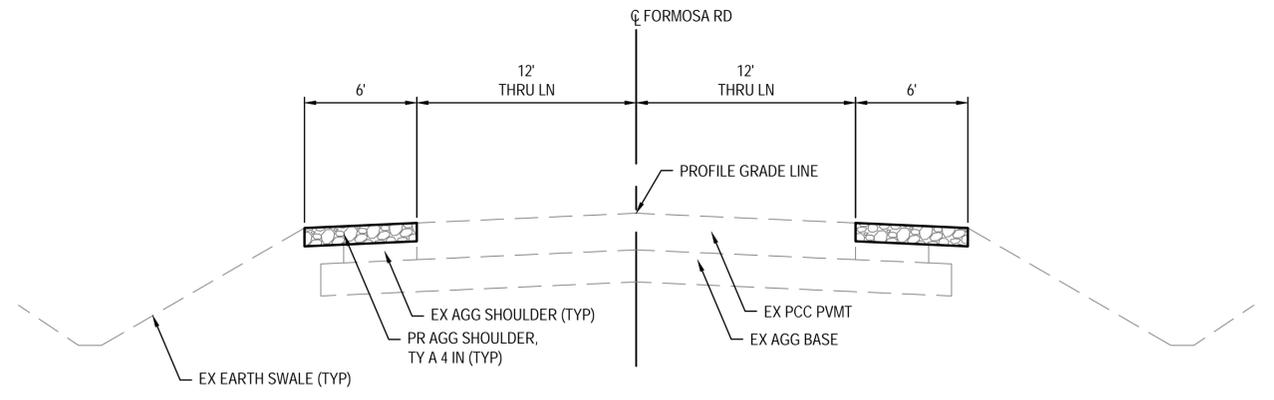
**EXISTING FORMOSA RD SECTION**

STA. 36+38.1 TO STA. 39+01.6  
 INTERSECTION STA. 35+38.5 TO STA. 36+38.1 (SPRING MILL DR)  
 STA. 17+18.7 TO STA. 35+38.5



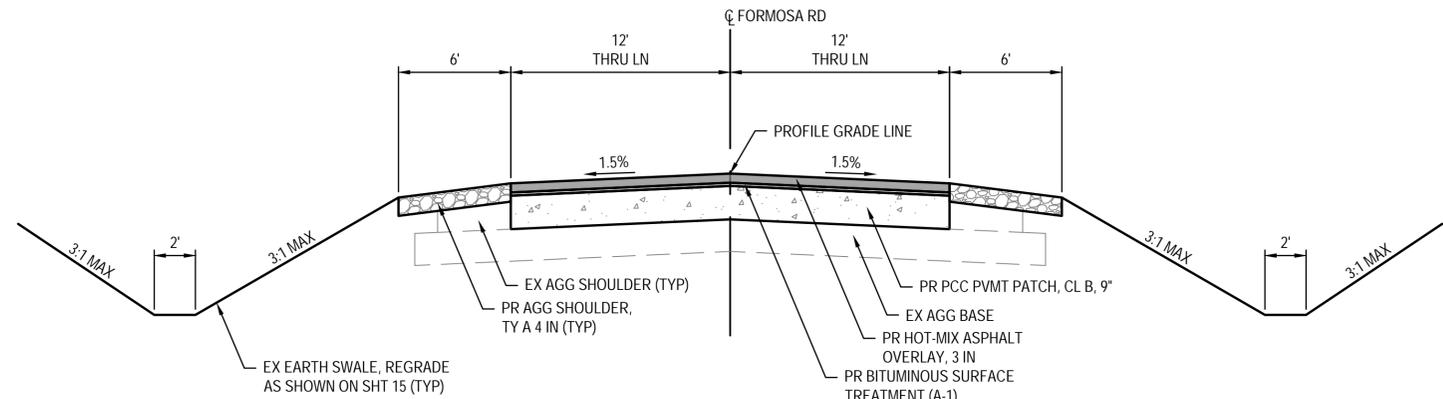
**EXISTING FORMOSA RD SECTION**

\* LEFT-TURN-LANE WIDTH TRANSITIONS FROM 12' TO 0' FROM STA. 14+58.0 TO STA. 17+18.7  
 STA. 12+00.0 TO STA. 17+18.7  
 INTERSECTION STA. 9+89.5 TO STA. 12+00.0 (EDWARDSVILLE RD / IL-162)



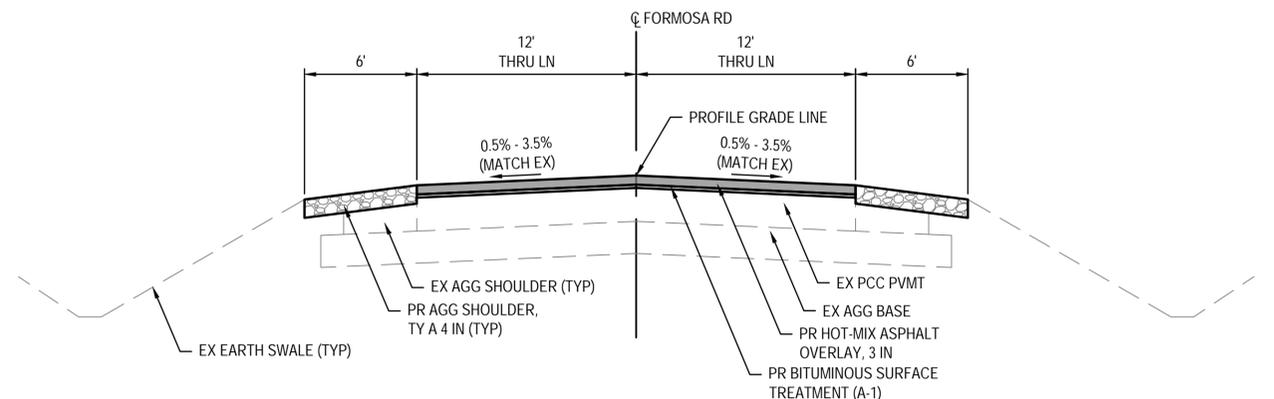
**PROPOSED FORMOSA RD SECTION**

STA. 36+57.5 TO STA. 39+01.6



**PROPOSED FORMOSA RD SECTION**

STA. 33+59.0 TO STA. 35+15.0



**PROPOSED FORMOSA RD SECTION**

STA. 36+38.1 TO STA. 36+57.5  
 INTERSECTION STA. 35+38.5 TO STA. 36+38.1 (SPRING MILL DR)  
 STA. 35+15.0 TO STA. 35+38.5  
 STA. 17+18.7 TO STA. 33+59.0

FILE NAME = 221081 - TYPICAL SECTIONS.DWG



USER NAME =	RYAN GUELDERER	DESIGNED -	RDG	REVISED -	
PLOT SCALE =		DRAWN -	RDG	REVISED -	
PLOT DATE =	2023-06-02	CHECKED -	TLC	REVISED -	
		DATE -	2023-06-01	REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FORMOSA ROAD PATCHING AND RESURFACING  
 TYPICAL SECTIONS

SCALE:	SHEET NO. OF SHEETS	STA. _____ TO STA. _____
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M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	04
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**PAVEMENT PATCHING SCHEDULE**

STATION	STATION	OFFSET	CL B PATCH T1 9  (SQ YD)	CL B PATCH T2 9  (SQ YD)	CL B PATCH T3 9  (SQ YD)	CL B PATCH T4 9  (SQ YD)
17+27	17+33	LT		8		
17+27	17+33	RT		8		
17+40	17+46	LT		8		
17+40	17+46	RT		8		
17+66	17+72	LT		8		
17+66	17+72	RT		8		
18+02	18+08	LT		8		
18+02	18+08	RT		8		
18+39	18+45	LT	3			
18+39	18+45	RT		8		
18+63	18+72	LT		12		
18+93	18+99	LT		8		
18+93	18+99	RT		8		
19+80	19+95	LT			20	
19+80	19+95	RT			20	
20+02	20+08	LT		8		
21+16	21+28	LT			16	
21+39	21+47	RT		11		
21+58	21+67	RT		12		
21+61	21+67	LT		8		
21+94	22+00	LT		8		
21+94	22+00	RT		8		
22+09	22+15	RT		8		
22+40	22+46	LT		8		
22+40	22+46	RT		8		
22+81	22+87	LT		8		
22+81	22+87	RT		8		
23+00	23+06	RT		8		
23+24	23+30	LT		8		
23+24	23+30	RT		8		
23+36	23+42	RT		8		
23+61	23+67	LT		8		
23+61	23+67	RT		8		
23+81	23+87	LT		8		
23+81	23+87	RT		8		
24+10	24+16	LT		8		
24+10	24+16	RT		8		
24+96	25+02	LT		8		
25+41	25+47	LT		8		
25+41	25+47	RT		8		
25+65	25+71	LT		8		
26+18	26+24	LT		8		
26+41	26+47	LT		8		
26+41	26+47	RT		8		
26+65	26+71	LT		8		
<b>SUBTOTAL</b>			<b>3</b>	<b>339</b>	<b>56</b>	

**PAVEMENT PATCHING SCHEDULE**

STATION	STATION	OFFSET	CL B PATCH T1 9  (SQ YD)	CL B PATCH T2 9  (SQ YD)	CL B PATCH T3 9  (SQ YD)	CL B PATCH T4 9  (SQ YD)
26+65	26+71	RT		8		
26+87	26+93	RT		8		
27+21	27+31	RT		13		
27+55	27+61	LT		8		
27+55	27+61	RT		8		
29+01	29+07	LT		8		
29+01	29+07	RT		8		
29+40	29+46	LT		8		
29+40	29+46	RT		8		
29+72	29+78	LT		8		
29+72	29+81	RT		12		
29+93	29+99	RT		8		
30+19	30+25	LT		8		
30+41	30+47	LT		8		
30+41	30+47	RT		8		
32+42	32+48	LT		8		
32+42	32+48	RT		8		
32+66	32+72	LT		8		
32+66	32+72	RT		8		
33+00	33+06	LT		8		
33+00	33+06	RT		8		
33+18	33+24	RT		8		
33+41	33+47	LT		8		
33+41	33+47	RT		8		
33+59	35+15	LT				208
33+59	35+15	RT				208
35+39	35+45	LT		8		
35+39	35+45	RT		8		
35+71	35+77	RT		8		
35+90	35+96	LT		8		
36+04	36+10	LT		8		
36+04	36+10	RT		8		
36+35	36+41	LT		8		
38+54	38+60	RT	4			
38+73	38+82	RT		6		
39+02	39+08	RT		8		
39+14	39+20	RT		8		
<b>SUBTOTAL FROM ABOVE</b>			<b>4</b>	<b>279</b>		<b>416</b>
<b>SUBTOTAL PREVIOUS TABLE</b>			<b>3</b>	<b>339</b>	<b>56</b>	
<b>TOTAL</b>			<b>7</b>	<b>618</b>	<b>56</b>	<b>416</b>

FILE NAME = 221081 - SOQ & SCHEDULES.DWG



USER NAME =	RYAN GUELDERER	DESIGNED -	RDG	REVISED -	
		DRAWN -	RDG	REVISED -	
PLOT SCALE =		CHECKED -	TLC	REVISED -	
PLOT DATE =	2023-06-02	DATE -	2023-06-01	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FORMOSA ROAD PATCHING AND RESURFACING  
SCHEDULES

SCALE: SHEET NO. 1 OF 2 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	05
FED. ROAD DIST. NO. _____			CONTRACT NO. _____	
ILLINOIS			FED. AID PROJECT	

**PAVEMENT SCHEDULE**

STATION	STATION	OFFSET	BIT SURF TREATMNT A1  (SQ YD)	HMA SC IL-9.5 C N70  (NOTE 1) (TON)	PCC SURF REMBUTT JT  (SQ YD)	INCIDENTAL HMA SURF  (TON)	PCC SURF REMBUTT JT SP  (SQ YD)	BIT MATLS TACK CT  (POUND)	AGGREGATE SHLDS A 4  (SQ YD)
17+19	36+58	LT / RT	5147	865				2317	
17+19	17+59	LT / RT			213				
17+19	17+45	LT							13
17+19	17+37	RT							10
17+30	17+94	RT	61			10	61	27	
17+32	18+06	LT	60			10	60	27	
17+90	22+94	RT							329
17+93	19+23	LT							77
19+10	19+83	LT	62			10	62	28	
19+72	35+39	LT							1,039
22+85	23+45	RT	56			9	56	25	
23+40	27+86	RT							289
27+71	28+91	RT	112			19	112	50	
28+80	29+99	RT							73
29+96	31+21	RT	134			22	134	60	
31+18	32+22	RT							66
32+15	32+64	RT	46			8	46	21	
32+62	33+69	RT							69
33+63	34+13	RT	48			8	48	22	
34+11	36+58	RT							164
35+39	36+38	LT	102			17	102	46	
36+18	36+58	LT / RT			213				
36+38	39+02	LT							176
39+02	39+12	RT							7
<b>TOTAL</b>			<b>5,828</b>	<b>865</b>	<b>426</b>	<b>113</b>	<b>681</b>	<b>2,623</b>	<b>2,312</b>

PAVEMENT SCHEDULE NOTES:

- CONTRACTOR SHALL PAVE HOT-MIX ASPHALT IN 2-1.5" LIFTS.

**PAVEMENT MARKING SCHEDULE**

STATION	STATION	OFFSET	PAINT PVT MK LINE 4 (YELLOW)  (FOOT)	PAINT PVT MK LINE 4 (WHITE)  (FOOT)	PAINT PVT MK LINE 12 (YELLOW)  (FOOT)	PAINT PVT MK LINE 12 (WHITE)  (FOOT)	PAINT PVT MK LINE 24 (WHITE)  (FOOT)	PT PAV MK LTRS & SYMB (WHITE)  (SQ FT)
9+89	10+75	RT		335		80		
9+96	35+39	LT		2590				
10+12	39+12	RT		2980				
10+19	10+22	LT					32	
10+19	63+01	CTR	11255					
10+19	14+05	LT		390				
11+79	11+92	LT						40
13+20	13+30	LT						15
13+58	17+00				155			
36+38	39+02	LT		265				
<b>SUBTOTAL</b>			<b>11,255</b>	<b>6,560</b>	<b>155</b>	<b>80</b>	<b>32</b>	<b>55</b>
<b>TOTAL</b>				<b>17,815</b>		<b>235</b>	<b>32</b>	<b>55</b>

**CRACK FILLING**

STATION	STATION	OFFSET	CRACK FILLING  (NOTE 1 & 2) (POUND)	CRACK FILLING WITH BACKER ROD  (NOTE 3) (FOOT)
9+89	17+18	LT / RT	1,106	1,298
17+18	36+57	LT / RT	837	690
36+57	63+01	LT / RT	3,464	990
<b>TOTAL</b>			<b>5,407</b>	<b>2,978</b>

CRACK FILLING NOTES:

- FILL ALL CRACKS IN PAVEMENT BETWEEN STATIONS 9+89 AND 17+18 AND STATIONS 36+57 AND 63+01
- FILL CRACKS CALLED OUT IN THE PLANS BETWEEN STATIONS 17+18 AND 36+57
- USE IN LARGE GAPS BETWEEN ENTRANCES AND ROADWAY AND BETWEEN ASPHALT SHOULDER AND ROADWAY

**STORM SEWER**

STATION	OFFSET	STATION	OFFSET	PRC FLAR END SEC 12  (EACH)	P CUL CL A 1 12  (FOOT)
34+40	LT / RT			2	32
<b>TOTAL</b>				<b>2</b>	<b>32</b>

**SEEDING**

STATION	STATION	OFFSET	SEEDING CL 1A  (ACRE)	NITROGEN FERT NUTR  (POUND)	PHOSPHORUS FERT NUTR  (POUND)	POTASSIUM FERT NUTR  (POUND)	MULCH METHOD 1  (ACRE)
17+18	35+72	LT	0.6	54	54	54	0.6
17+18	39+12	RT	0.6	54	54	54	0.6
36+03	39+02	LT	0.1	9	9	9	0.1
<b>TOTAL</b>			<b>1.3</b>	<b>117</b>	<b>117</b>	<b>117</b>	<b>1.3</b>

**EROSION CONTROL**

STATION	STATION	OFFSET	EROSION CONTR BLANKET  (SQ YD)	TEMP EROS CONTR SEED (NOTE 1) (POUND)	TEMP DITCH CHECKS  (FOOT)	INLET & PIPE PROTECTION  (EACH)
17+18	35+72	LT		60		
17+18	39+12	RT		60		
33+55		LT			12	
33+59	35+15	LT	260			
34+12	35+15	RT	170			
34+40		LT / RT				1
36+03	39+02	LT		10		
<b>TOTAL</b>			<b>430</b>	<b>130</b>	<b>12</b>	<b>1</b>

EROSION CONTROL NOTES:

- THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES TWO SEPARATE APPLICATIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS NECESSARY AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

FILE NAME = 221081 - SOQ & SCHEDULES.DWG



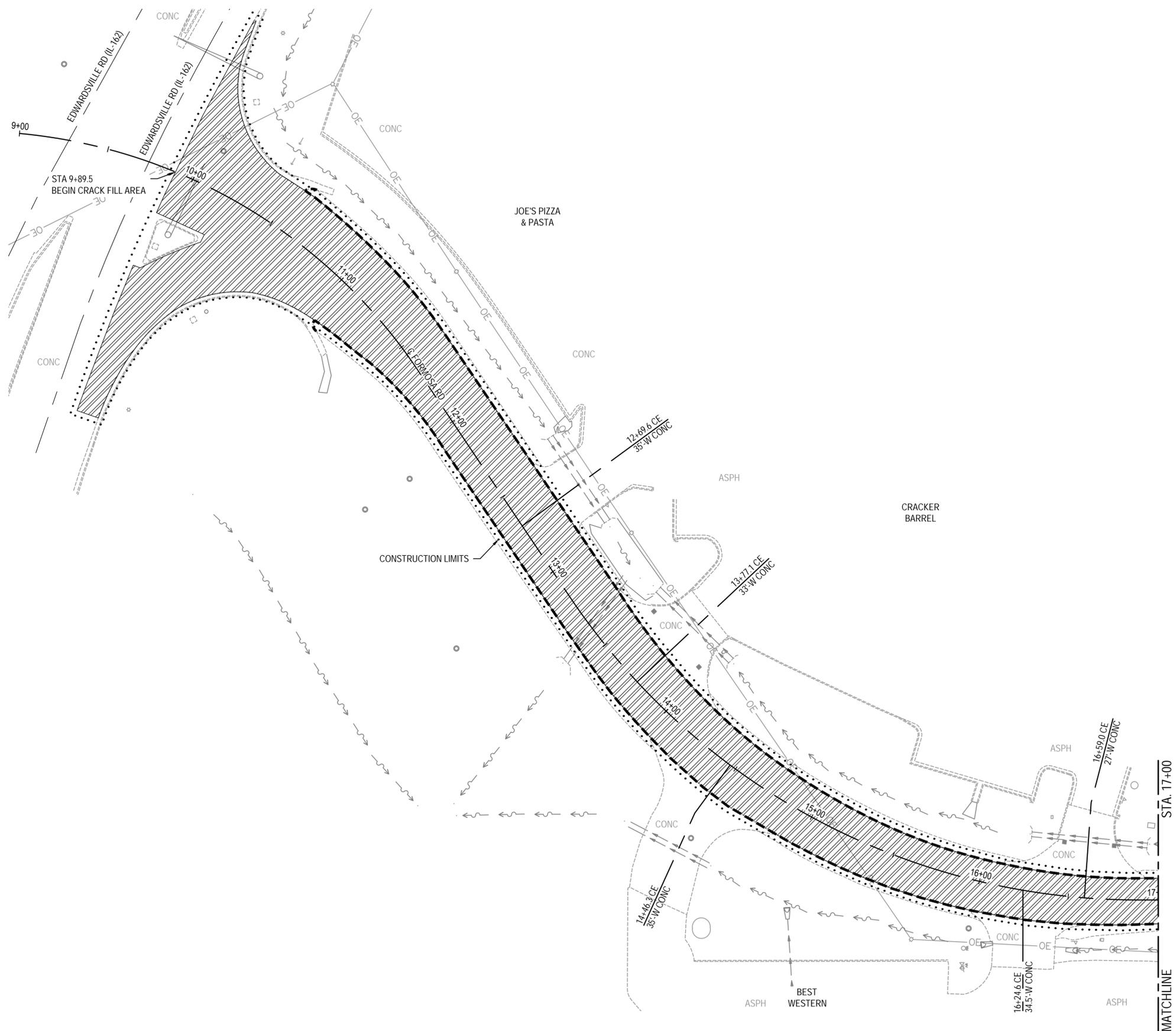
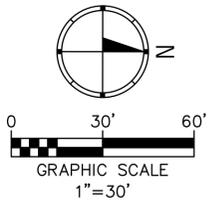
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PLOT SCALE =	DRAWN - RDG	REVISED -
PLOT DATE = 2023-08-01	CHECKED - TLC	REVISED -
	DATE - 2023-06-01	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FORMOSA ROAD PATCHING AND RESURFACING  
SCHEDULES

SCALE: SHEET NO. 2 OF 2 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	06
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**NOTES**

1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR ADJACENT PROPERTIES AT ALL TIMES.

**KEYED NOTES**

- 1 NEW PCC PATCH, CLASS B, TY 1
- 2 NEW PCC PATCH, CLASS B, TY 2
- 3 NEW PCC PATCH, CLASS B, TY 3
- 4 NEW PCC PATCH, CLASS B, TY 4 AND REPROFILING, SEE SHT 16

**LEGEND**

- NEW PCC PATCH, CLASS B, SEE DTL 3 ON SHT 17
- NEW BUTT JOINT, 10-FT WIDE UNLESS SPECIFIED, SEE DTL 2 ON SHT 17
- CRACK FILL AREA
- CRACK FILL
- CRACK FILL WITH BACKER ROD

FILE NAME = 221081 - DESIGN.DWG

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ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

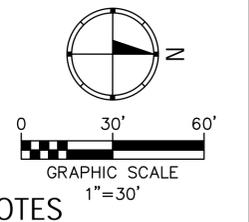
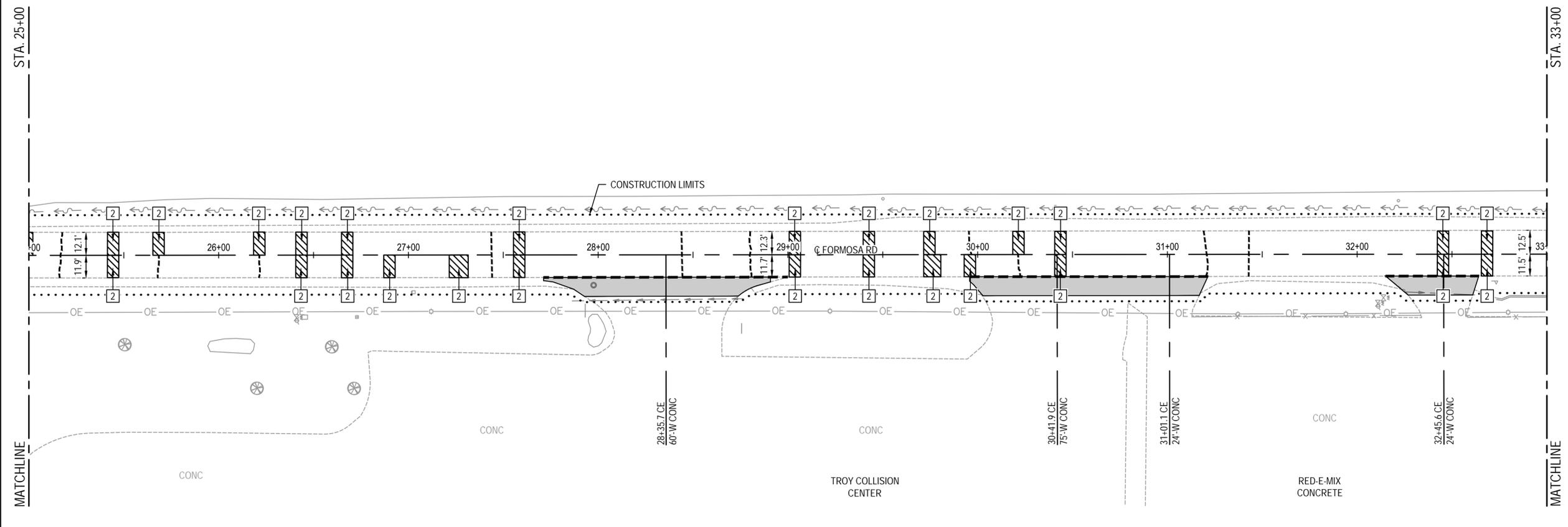
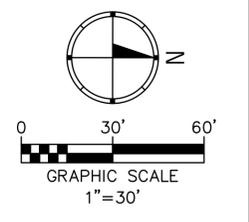
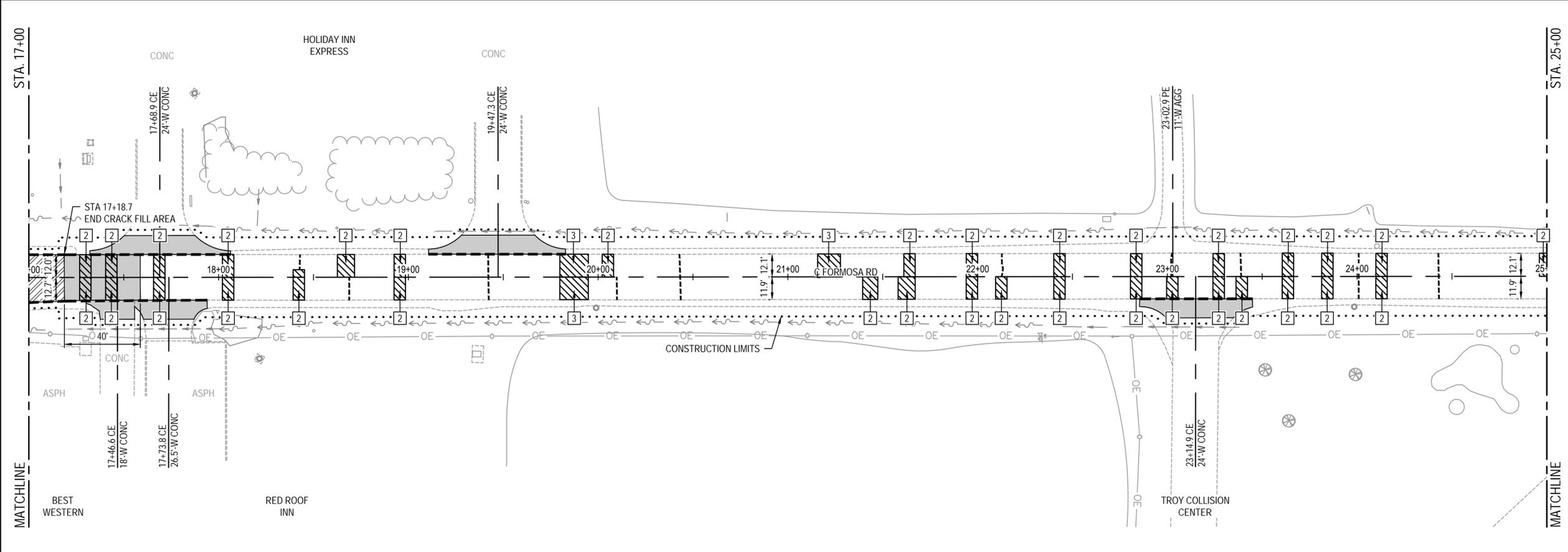
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		DRAWN -	RDG	REVISED -	
PLOT SCALE =		CHECKED -	TLC	REVISED -	
PLOT DATE =	2023-06-02	DATE -	2023-06-01	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FORMOSA ROAD PATCHING AND RESURFACING  
PATCHING AND CRACK FILLING PLANS**

SCALE: 1" = 30'    SHEET NO. 1 OF 4 SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	07
CONTRACT NO.				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				



- NOTES**
1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR ADJACENT PROPERTIES AT ALL TIMES.

- KEYED NOTES**
- 1 NEW PCC PATCH, CLASS B, TY 1
  - 2 NEW PCC PATCH, CLASS B, TY 2
  - 3 NEW PCC PATCH, CLASS B, TY 3
  - 4 NEW PCC PATCH, CLASS B, TY 4 AND REPROFILING, SEE SHT 16

- LEGEND**
- NEW PCC PATCH, CLASS B, SEE DTL 3 ON SHT 17
  - NEW BUTT JOINT, 10-FT WIDE UNLESS SPECIFIED, SEE DTL 2 ON SHT 17
  - CRACK FILL AREA
  - CRACK FILL
  - CRACK FILL WITH BACKER ROD

FILE NAME = 221081 - DESIGN.DWG

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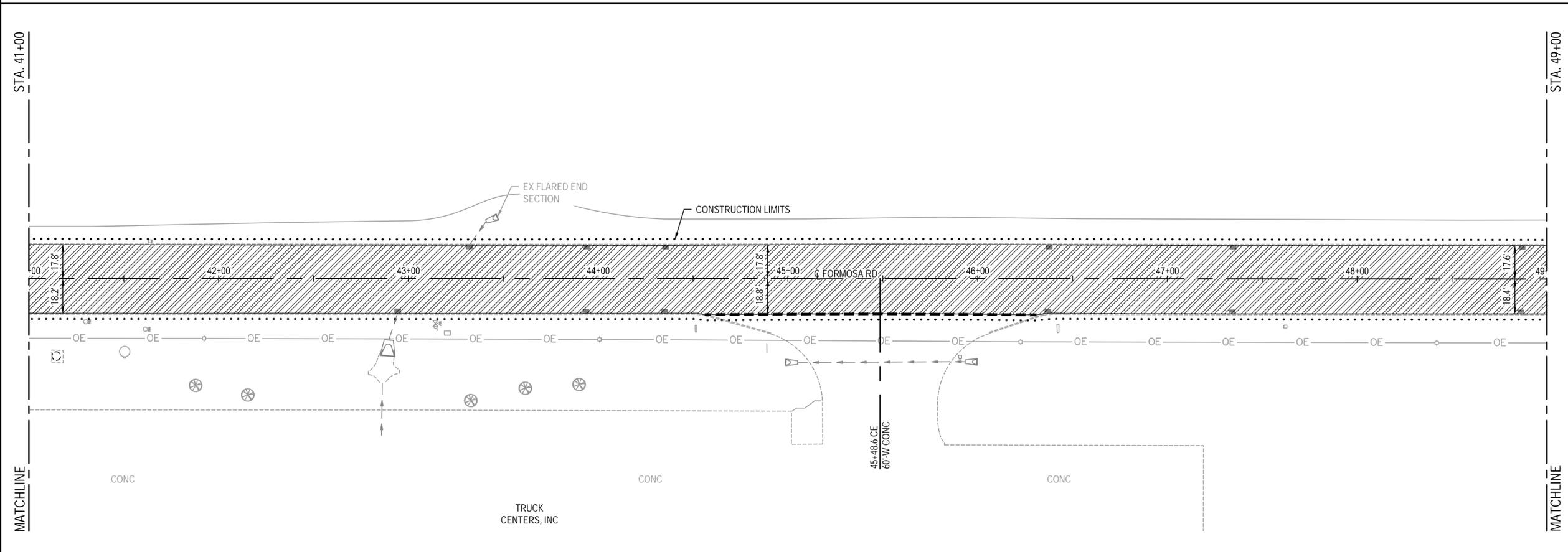
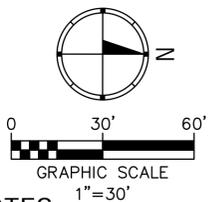
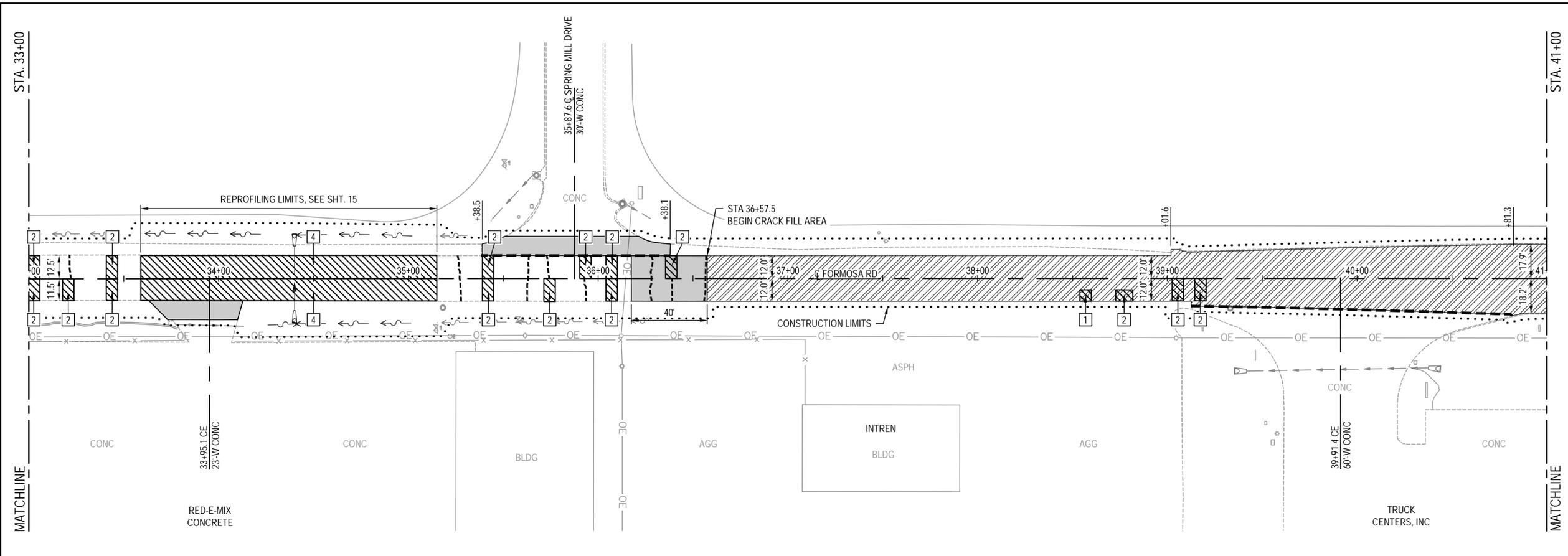
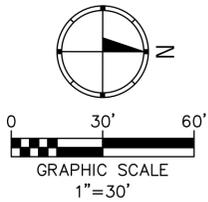
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		DRAWN -	RDG	REVISED -	
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PLOT DATE =	2023-06-02	DATE -	2023-06-01	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FORMOSA ROAD PATCHING AND RESURFACING  
PATCHING AND CRACK FILLING PLANS**

SCALE: 1" = 30' SHEET NO. 2 OF 4 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	08
CONTRACT NO.				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				



- NOTES**
1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR ADJACENT PROPERTIES AT ALL TIMES.

- KEYED NOTES**
- 1 NEW PCC PATCH, CLASS B, TY 1
  - 2 NEW PCC PATCH, CLASS B, TY 2
  - 3 NEW PCC PATCH, CLASS B, TY 3
  - 4 NEW PCC PATCH, CLASS B, TY 4 AND REPROFILING, SEE SHT 16

- LEGEND**
- NEW PCC PATCH, CLASS B, SEE DTL 3 ON SHT 17
  - NEW BUTT JOINT, 10-FT WIDE UNLESS SPECIFIED, SEE DTL 2 ON SHT 17
  - CRACK FILL AREA
  - CRACK FILL
  - CRACK FILL WITH BACKER ROD

FILE NAME = 221081 - DESIGN.DWG

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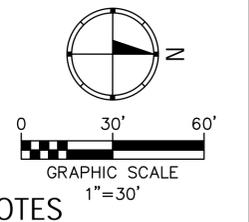
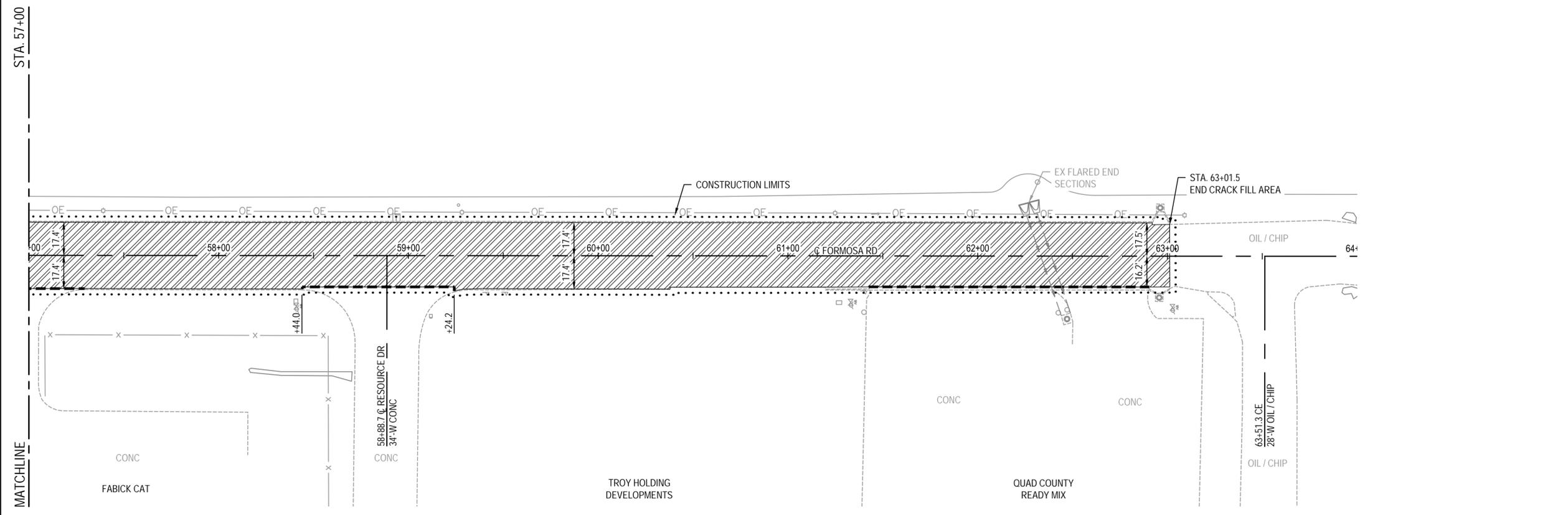
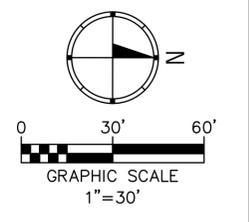
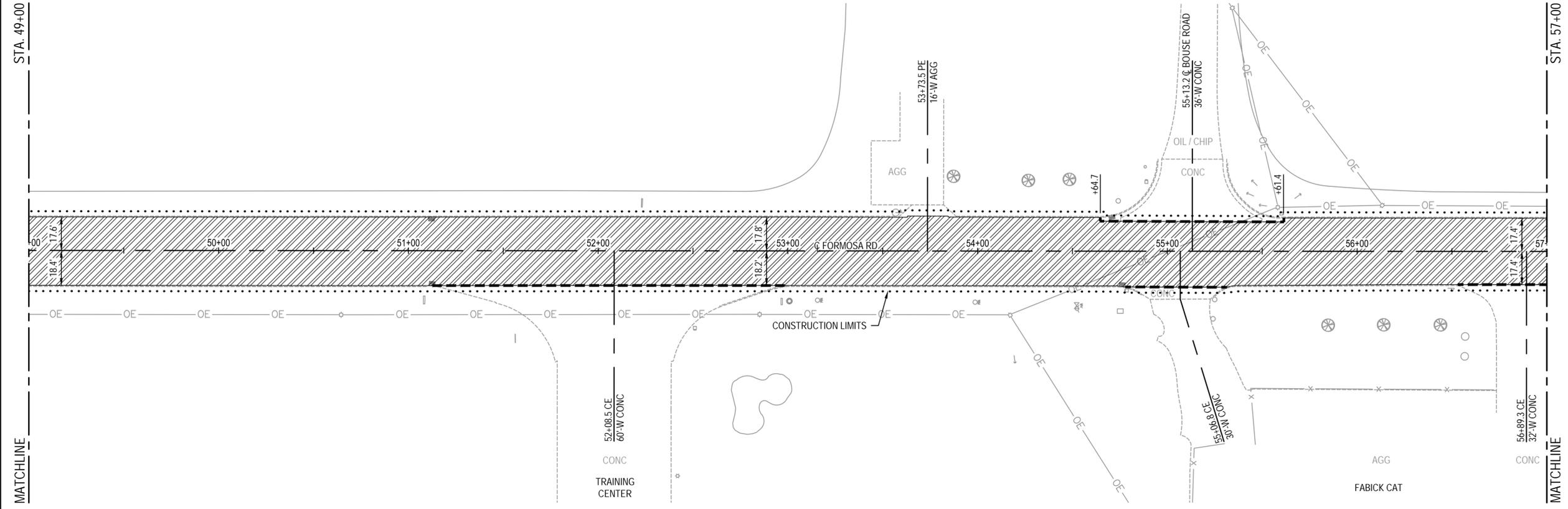
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	DATE - 2023-06-01	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FORMOSA ROAD PATCHING AND RESURFACING  
PATCHING AND CRACK FILLING PLANS**

SCALE: 1" = 30' SHEET NO. 3 OF 4 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	09
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- NOTES**
1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR ADJACENT PROPERTIES AT ALL TIMES.

- KEYED NOTES**
- 1 NEW PCC PATCH, CLASS B, TY 1
  - 2 NEW PCC PATCH, CLASS B, TY 2
  - 3 NEW PCC PATCH, CLASS B, TY 3
  - 4 NEW PCC PATCH, CLASS B, TY 4 AND REPROFILING, SEE SHT 16

- LEGEND**
- NEW PCC PATCH, CLASS B, SEE DTL 3 ON SHT 17
  - NEW BUTT JOINT, 10-FT WIDE UNLESS SPECIFIED, SEE DTL 2 ON SHT 17
  - CRACK FILL AREA
  - CRACK FILL
  - CRACK FILL WITH BACKER ROD

FILE NAME = 221081 - DESIGN.DWG

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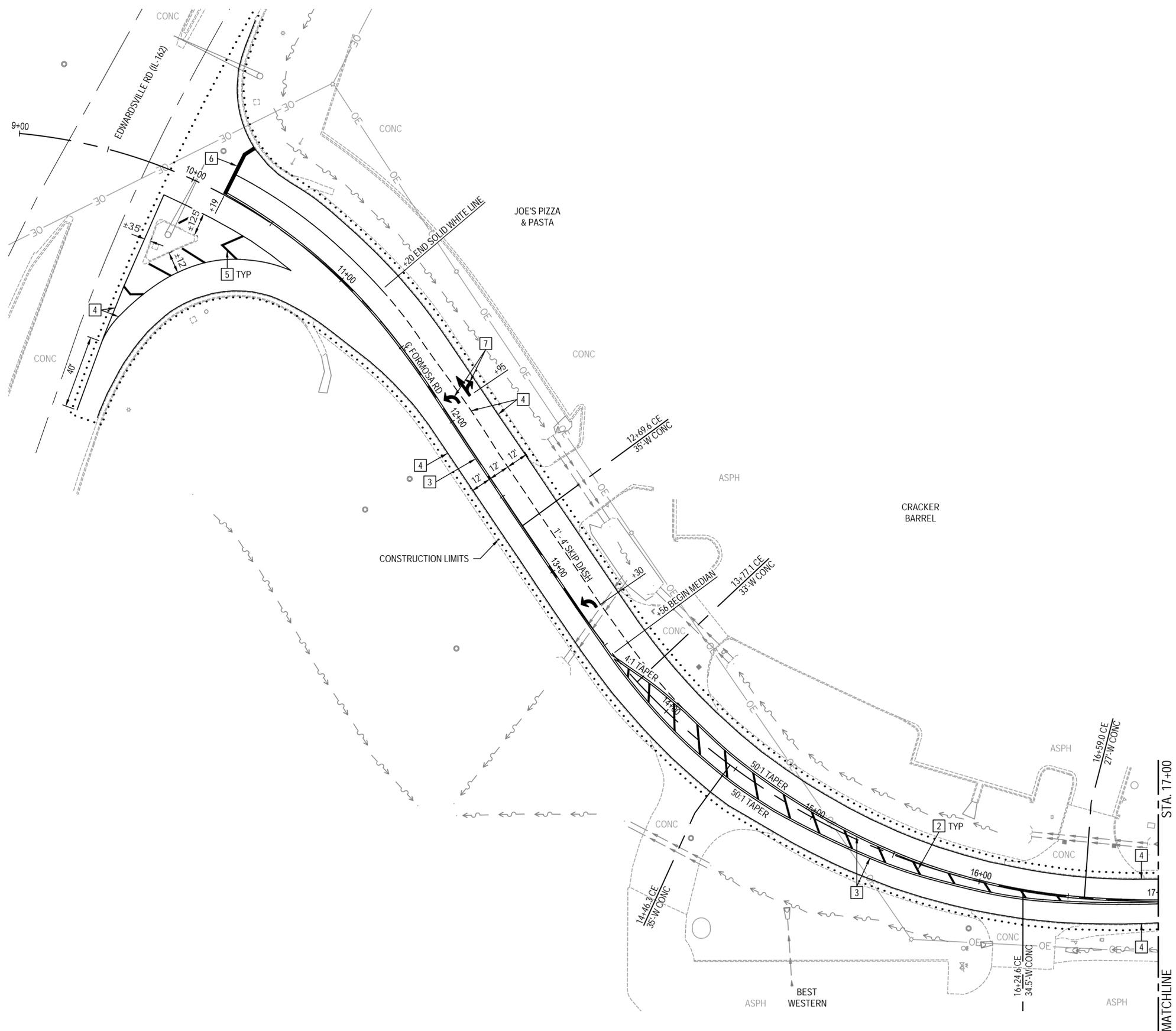
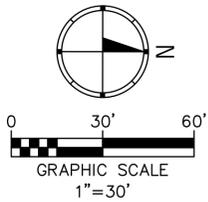
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		DRAWN -	RDG	REVISED -	
PLOT SCALE =		CHECKED -	TLC	REVISED -	
PLOT DATE =	2023-06-02	DATE -	2023-06-01	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FORMOSA ROAD PATCHING AND RESURFACING  
PATCHING AND CRACK FILLING PLANS**

SCALE: 1" = 30'    SHEET NO. 4 OF 4 SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	10
CONTRACT NO.				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				



**NOTES**

1. EDGES OF ASPHALT OVERLAY SHALL BE MADE FLUSH WITH EXISTING PAVEMENT.
2. MATCH EXISTING PAVEMENT MARKINGS FROM STA. 9+89 TO STA. 17+18.

**KEYED NOTES**

- 1 NEW 4" PAINT PVMT MARKING, YELLOW
- 2 NEW 12" PAINT PVMT MARKING, YELLOW ON 20' CTRS
- 3 NEW 4" DOUBLE SOLID PAINT PVMT MARKING, YELLOW
- 4 NEW 4" PAINT PVMT MARKING, WHITE
- 5 NEW 12" PAINT PVMT MARKING, WHITE
- 6 NEW 24" PAINT PVMT MARKING, WHITE
- 7 NEW PAINTED ARROW, WHITE

**LEGEND**

- NEW BITUM. SURFACE TREATMENT (A-1) AND HOT-MIX ASPHALT OVERLAY, 3 IN
- NEW BITUM. SURFACE TREATMENT (A-1) AND INCIDENTAL HMA SURFACING
- NEW AGG SHOULDERS, TY A 4 IN

FILE NAME = 221081 - DESIGN.DWG

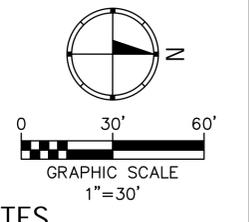
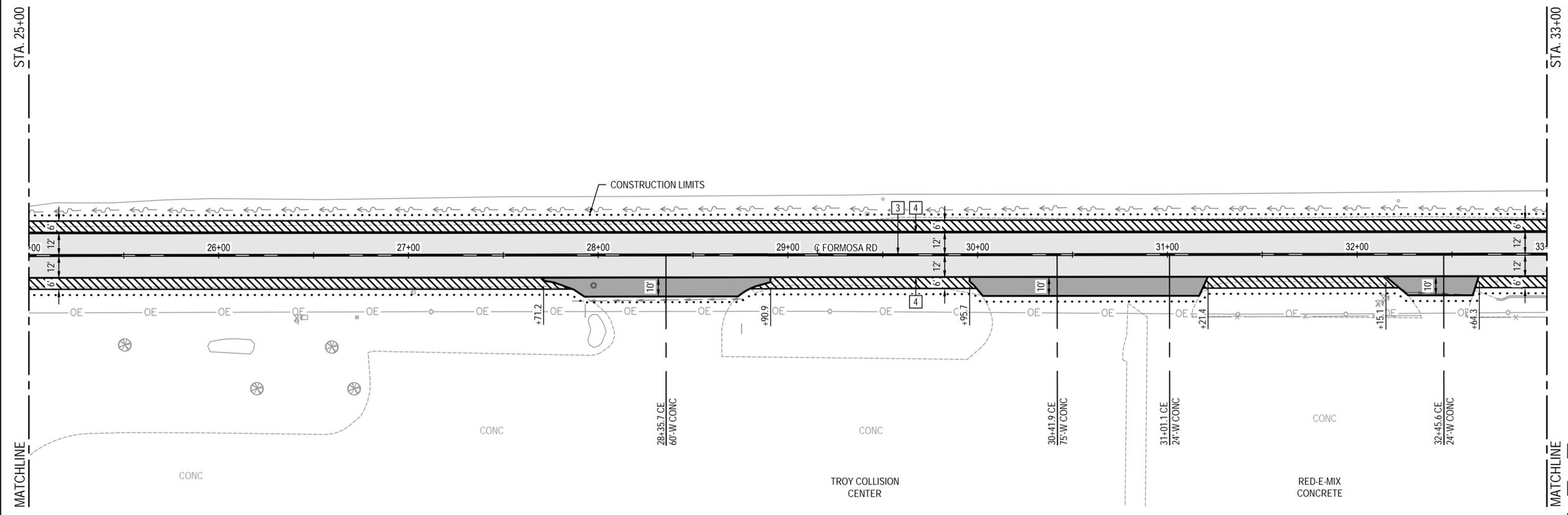
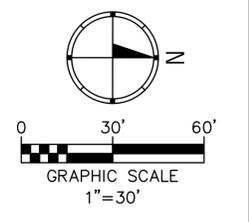
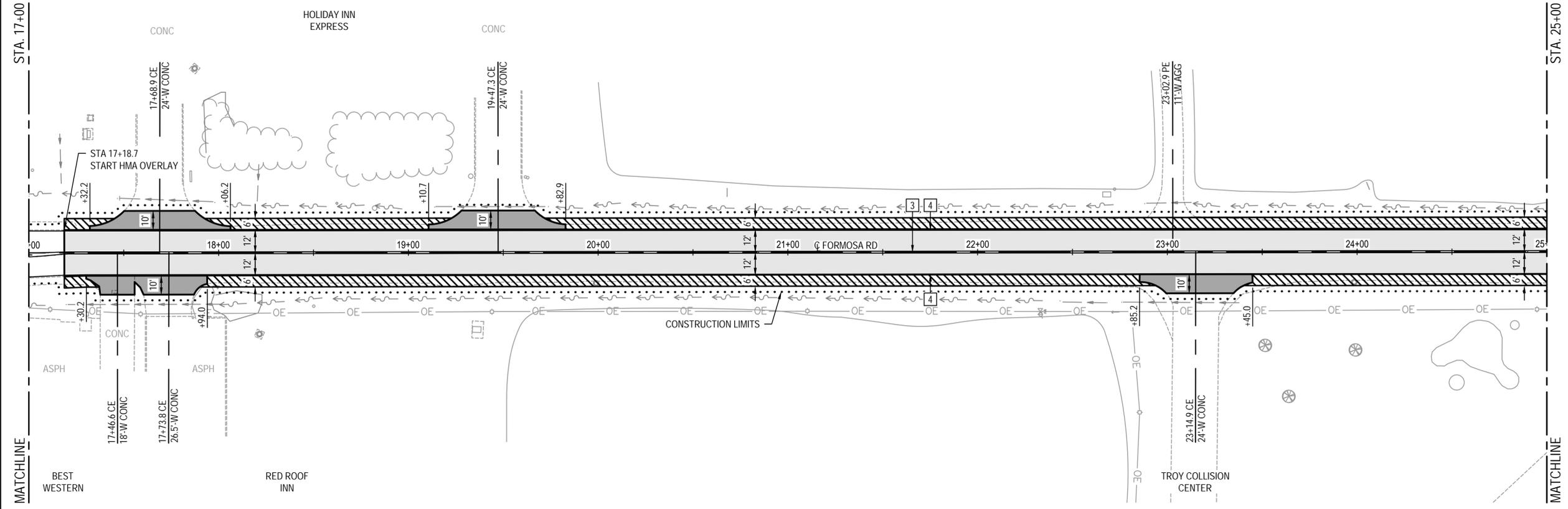
 <b>OATES ASSOCIATES</b> <small>www.oatesassociates.com</small> ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115	USER NAME = RYAN GUELDERER	DESIGNED - RDG	REVISED -
	PLOT SCALE =	DRAWN - RDG	REVISED -
	PLOT DATE = 2023-06-02	CHECKED - TLC	REVISED -
		DATE - 2023-06-01	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FORMOSA ROAD PATCHING AND RESURFACING  
OVERLAY AND PAVEMENT MARKING PLANS**

SCALE: 1" = 30'    SHEET NO. 1 OF 4 SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	11
CONTRACT NO.				
FED. ROAD DIST. NO.    ILLINOIS    FED. AID PROJECT				



- NOTES**
- EDGES OF ASPHALT OVERLAY SHALL BE MADE FLUSH WITH EXISTING PAVEMENT.

- KEYED NOTES**
- NEW 4" PAINT PVMT MARKING, YELLOW
  - NEW 12" PAINT PVMT MARKING, YELLOW ON 20' CTRS
  - NEW 4" DOUBLE SOLID PAINT PVMT MARKING, YELLOW
  - NEW 4" PAINT PVMT MARKING, WHITE
  - NEW 12" PAINT PVMT MARKING, WHITE
  - NEW 24" PAINT PVMT MARKING, WHITE
  - NEW PAINTED ARROW, WHITE

- LEGEND**
- NEW BITUM. SURFACE TREATMENT (A-1) AND HOT-MIX ASPHALT OVERLAY, 3 IN
  - NEW BITUM. SURFACE TREATMENT (A-1) AND INCIDENTAL HMA SURFACING
  - NEW AGG SHOULDERS, TY A 4 IN

FILE NAME = 221081 - DESIGN.DWG

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ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

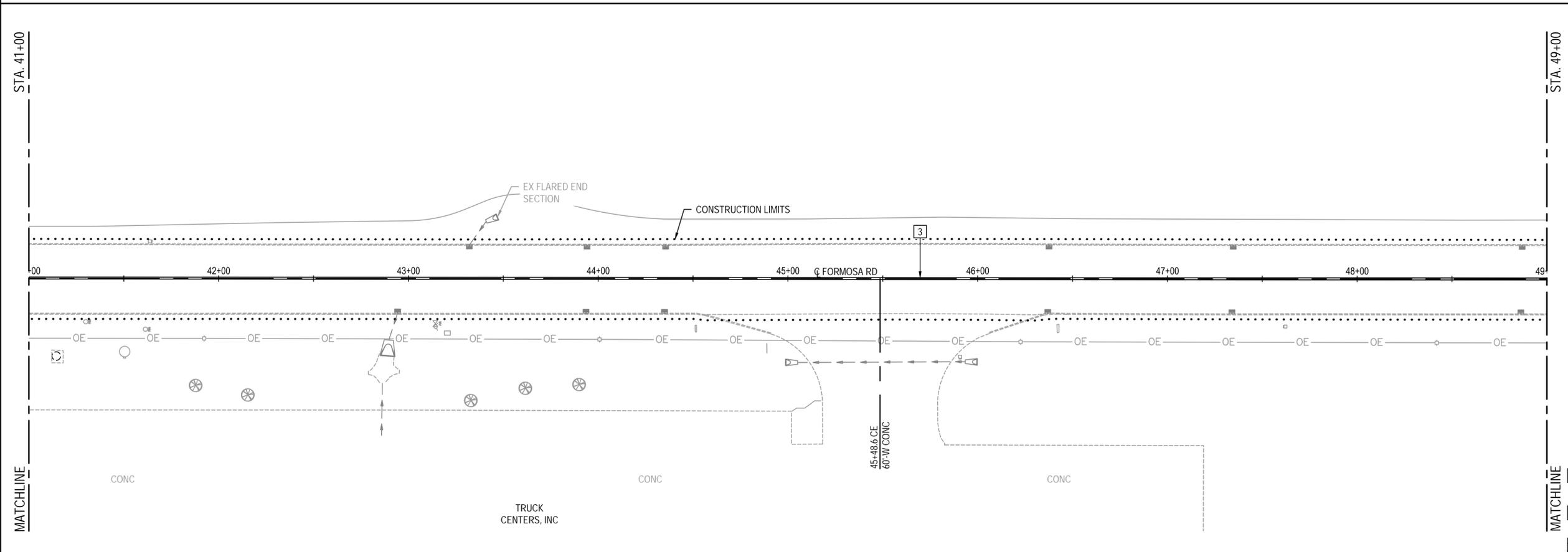
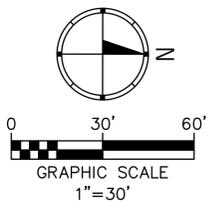
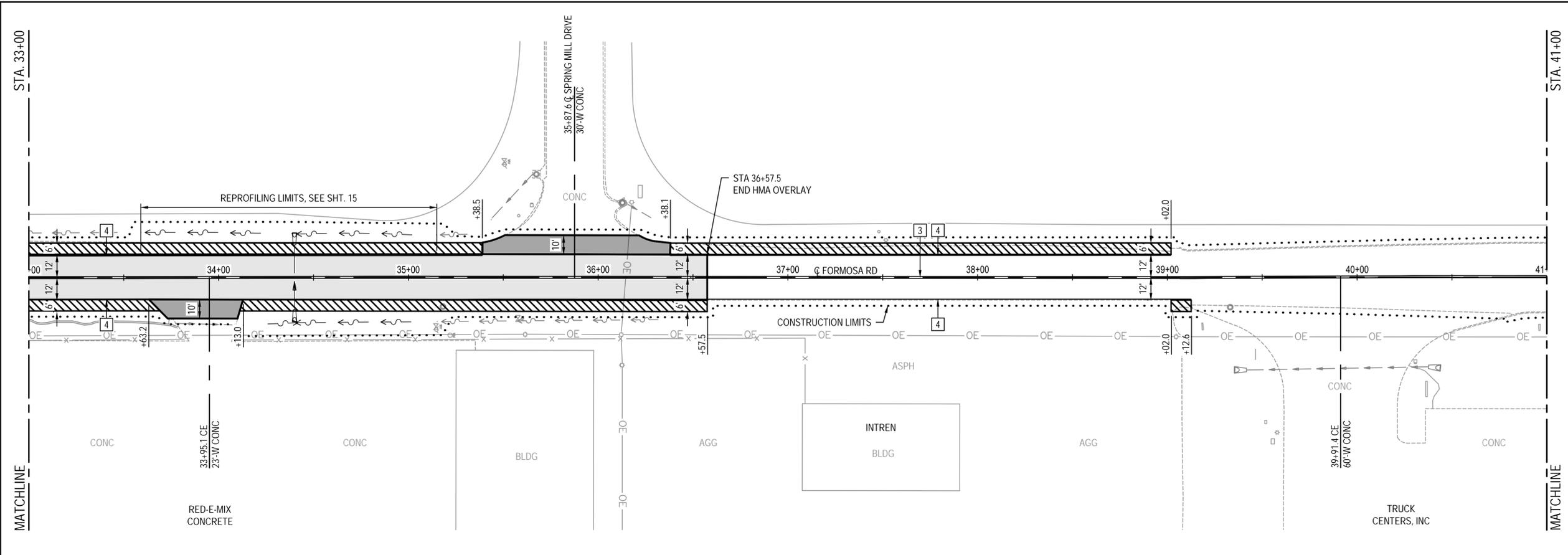
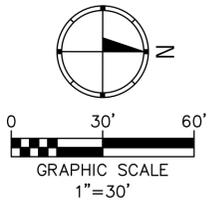
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PLOT SCALE =		CHECKED -	TLC	REVISED -	
PLOT DATE =	2023-06-02	DATE -	2023-06-01	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FORMOSA ROAD PATCHING AND RESURFACING  
OVERLAY AND PAVEMENT MARKING PLANS**

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	12
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE: 1" = 30' SHEET NO. 2 OF 4 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_



**NOTES**

- 1. EDGES OF ASPHALT OVERLAY SHALL BE MADE FLUSH WITH EXISTING PAVEMENT.

**KEYED NOTES**

- 1 NEW 4" PAINT PVMT MARKING, YELLOW
- 2 NEW 12" PAINT PVMT MARKING, YELLOW ON 20' CTRS
- 3 NEW 4" DOUBLE SOLID PAINT PVMT MARKING, YELLOW
- 4 NEW 4" PAINT PVMT MARKING, WHITE
- 5 NEW 12" PAINT PVMT MARKING, WHITE
- 6 NEW 24" PAINT PVMT MARKING, WHITE
- 7 NEW PAINTED ARROW, WHITE

**LEGEND**

- NEW BITUM. SURFACE TREATMENT (A-1) AND HOT-MIX ASPHALT OVERLAY, 3 IN
- NEW BITUM. SURFACE TREATMENT (A-1) AND INCIDENTAL HMA SURFACING
- NEW AGG SHOULDERS, TY A 4 IN

FILE NAME = 221081 - DESIGN.DWG

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ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

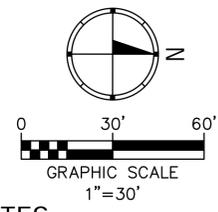
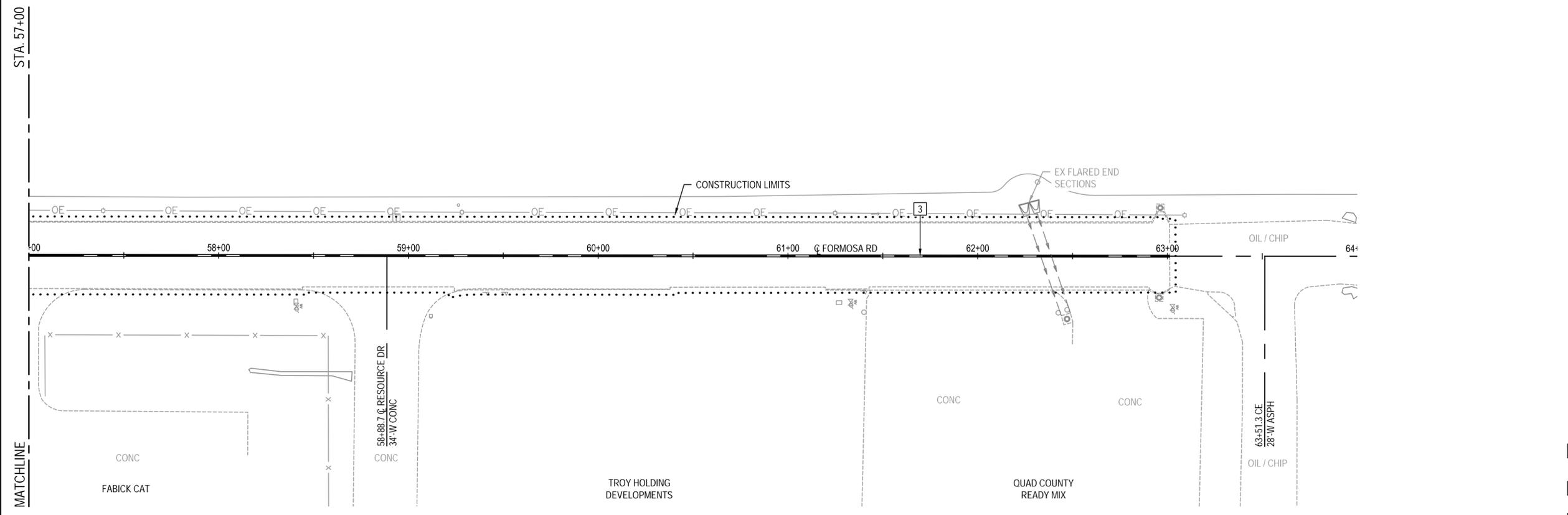
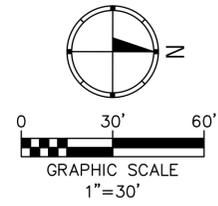
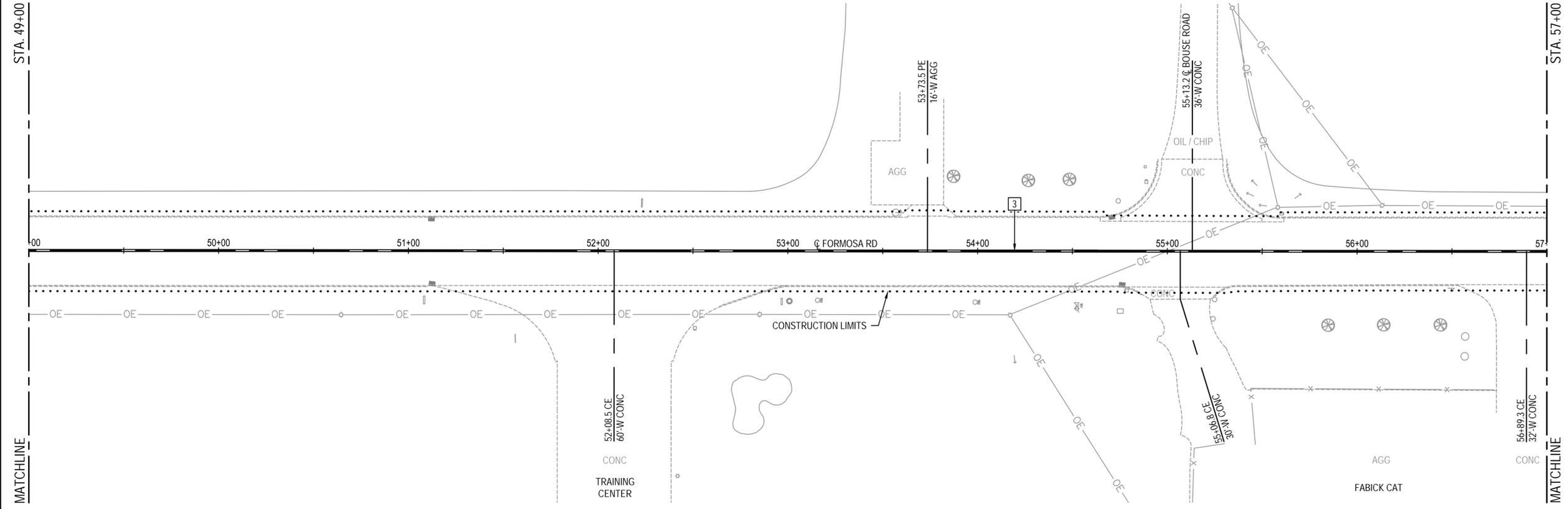
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PLOT SCALE =	DRAWN - RDG	REVISED -
PLOT DATE = 2023-06-02	CHECKED - TLC	REVISED -
	DATE - 2023-06-01	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FORMOSA ROAD PATCHING AND RESURFACING  
OVERLAY AND PAVEMENT MARKING PLANS**

SCALE: 1" = 30'    SHEET NO. 3 OF 4 SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	13
CONTRACT NO.				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				



- NOTES**
- EDGES OF ASPHALT OVERLAY SHALL BE MADE FLUSH WITH EXISTING PAVEMENT.

- KEYED NOTES**
- NEW 4" PAINT PVMT MARKING, YELLOW
  - NEW 12" PAINT PVMT MARKING, YELLOW ON 20' CTRS
  - NEW 4" DOUBLE SOLID PAINT PVMT MARKING, YELLOW
  - NEW 4" PAINT PVMT MARKING, WHITE
  - NEW 12" PAINT PVMT MARKING, WHITE
  - NEW 24" PAINT PVMT MARKING, WHITE
  - NEW PAINTED ARROW, WHITE

- LEGEND**
- NEW BITUM. SURFACE TREATMENT (A-1) AND HOT-MIX ASPHALT OVERLAY, 3 IN
  - NEW BITUM. SURFACE TREATMENT (A-1) AND INCIDENTAL HMA SURFACING
  - NEW AGG SHOULDERS, TY A 4 IN

FILE NAME = 221081 - DESIGN.DWG

<p>OATES ASSOCIATES www.oatesassociates.com ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115</p>	USER NAME = RYAN GUELDERER	DESIGNED - RDG	REVISED -
	PLOT SCALE =	DRAWN - RDG	REVISED -
	PLOT DATE = 2023-06-02	CHECKED - TLC	REVISED -
		DATE - 2023-06-01	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FORMOSA ROAD PATCHING AND RESURFACING  
OVERLAY AND PAVEMENT MARKING PLANS**

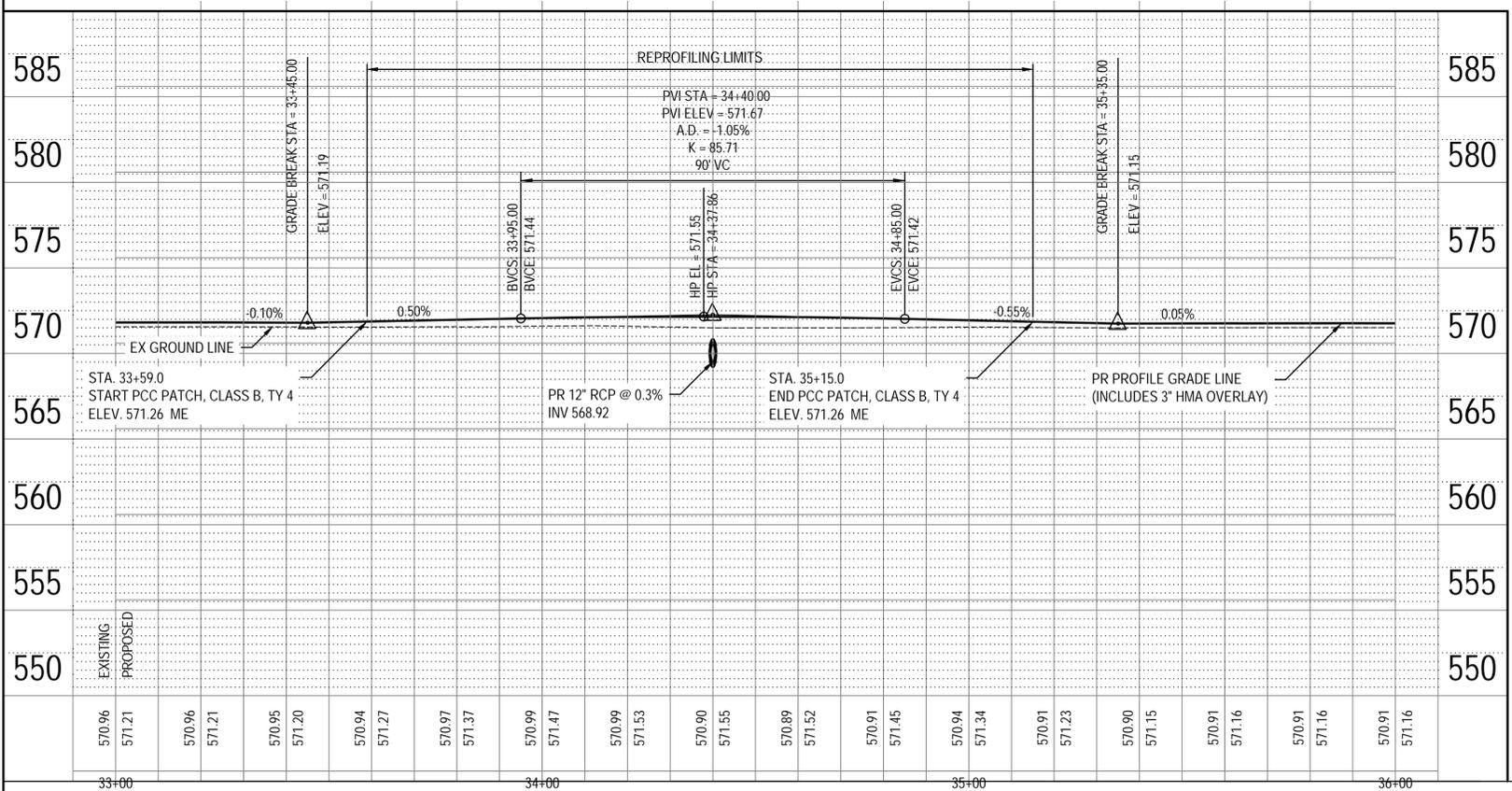
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6041	22-00037-00-RS	MADISON	17	14
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE: 1" = 30'    SHEET NO. 4 OF 4 SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		
	NOTE BOOK NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		
	NOTE BOOK NO.		

FILE NAME = 221081 - DESIGN.DWG



570.96	571.21	570.96	571.21	570.95	571.20	570.94	571.27	570.97	571.37	570.99	571.47	570.99	571.53	570.90	571.55	570.89	571.52	570.91	571.45	570.94	571.34	570.91	571.23	570.90	571.15	570.91	571.16	570.91	571.16	570.91	571.16
33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	33+00	

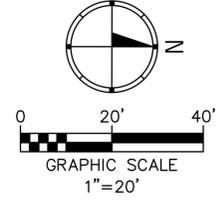
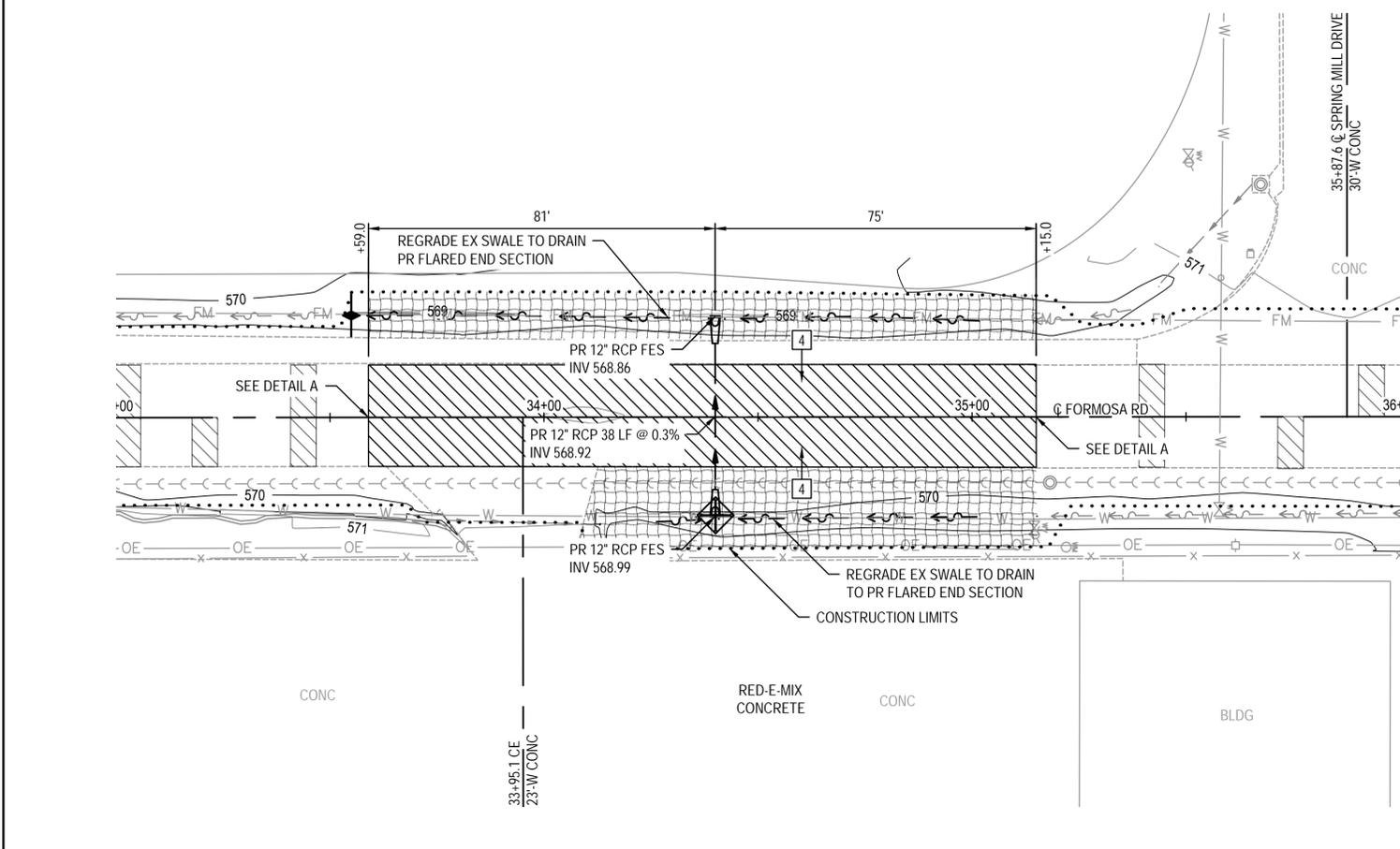
**OATES ASSOCIATES**  
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ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

USER NAME = DAYNE THORP	DESIGNED - RDG	REVISED -
PLOT SCALE =	DRAWN - RDG	REVISED -
PLOT DATE = 2023-07-31	CHECKED - TLC	REVISED -
	DATE - 2023-06-01	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FORMOSA ROAD PATCHING AND RESURFACING  
REPROFILING AND CULVERT SECTION  
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE. 6041	SECTION 22-00037-00-RS	COUNTY MADISON	TOTAL SHEETS 17	SHEET NO. 15
CONTRACT NO.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



**NOTES**

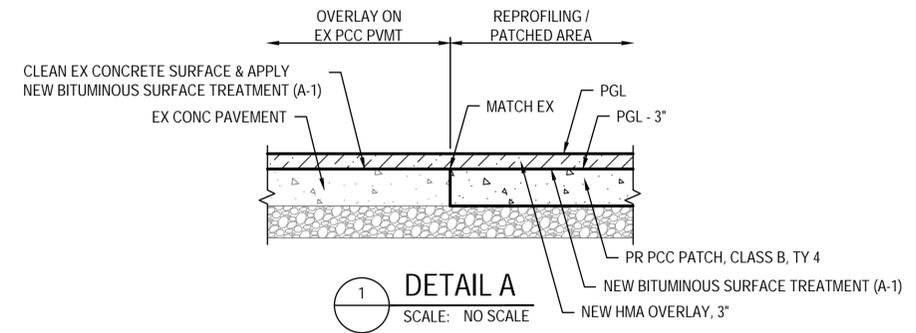
- THE CONTRACTOR SHALL MAINTAIN ACCESS FOR ADJACENT PROPERTIES AT ALL TIMES.

**LEGEND**

NEW PCC PATCH, CLASS B, SEE DTL 3 ON SHT 17

**KEYED NOTES**

- NEW PCC PATCH, CLASS B, TY 1
- NEW PCC PATCH, CLASS B, TY 2
- NEW PCC PATCH, CLASS B, TY 3
- NEW PCC PATCH, CLASS B, TY 4 AND REPROFILING

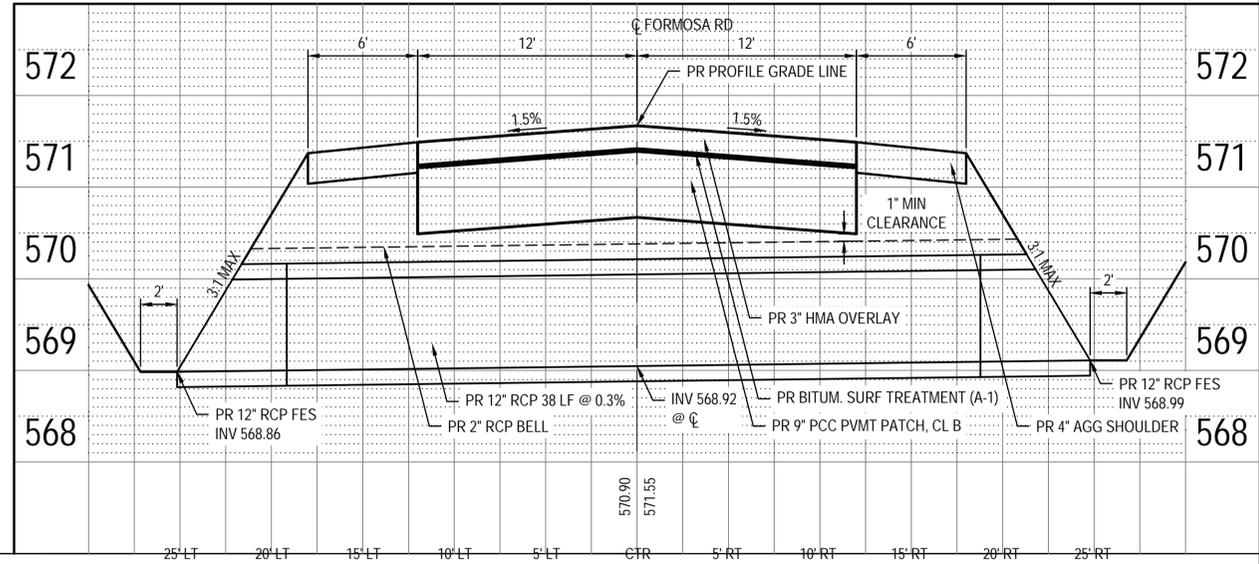


**EROSION CONTROL NOTES**

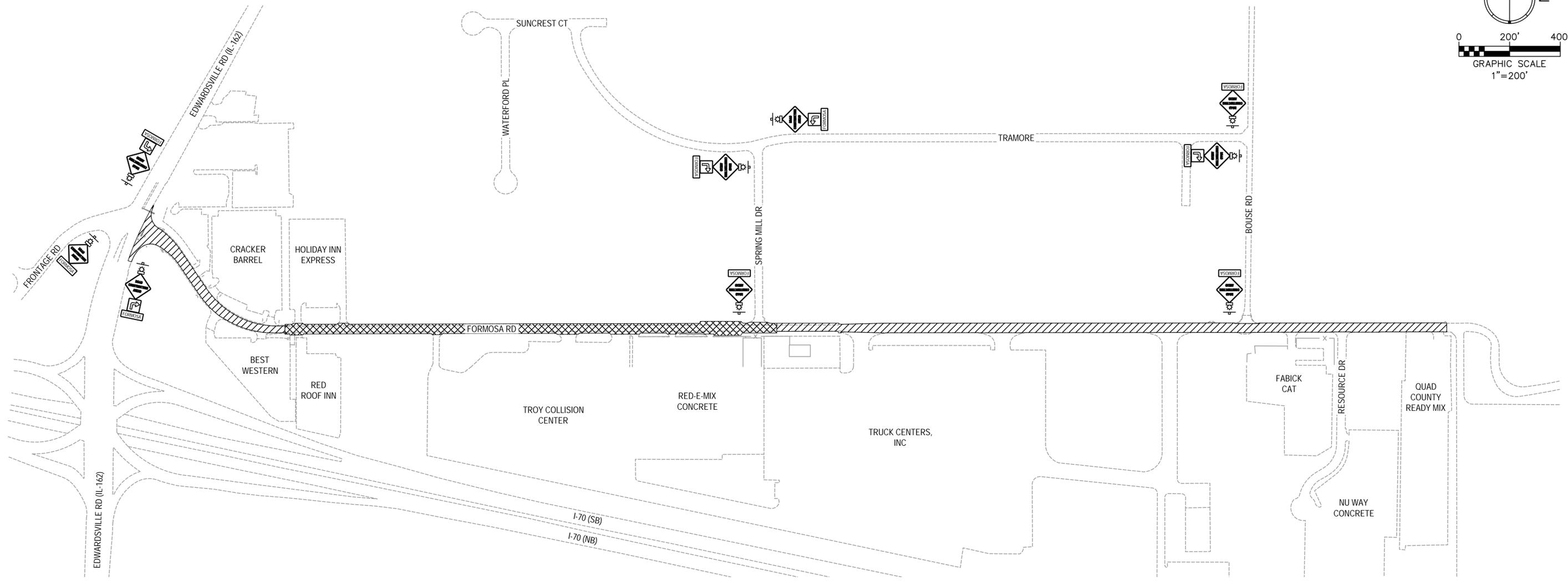
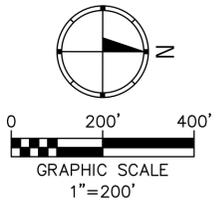
- INLET PROTECTION FOR DRAINAGE STRUCTURES TO BE REMOVED OR ADJUSTED SHALL REMAIN OPERATIONAL UNTIL ALL STORM SEWER ITEMS ARE REMOVED OR ADJUSTED TO GRADE WITH CLOSED FRAME AND LID.
- ALL EROSION CONTROL ITEMS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LOCAL GOVERNING BODIES.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO PREVENT STORM WATER RUNOFF FROM THE SITE. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- ALL TRUCKS MUST BE WASHED DOWN PRIOR TO LEAVING THE SITE.

**EROSION CONTROL LEGEND**

- NEW TEMPORARY DITCH CHECK
- NEW INLET & PIPE PROTECTION
- NEW EROSION CONTROL BLANKET



572	571	570	569	568	572	571	570	569	568	
25' LT	20' LT	15' LT	10' LT	5' LT	CTR	5' RT	10' RT	15' RT	20' RT	25' RT



**TRAFFIC CONTROL NOTES**

1. ALL TRAFFIC CONTROL SIGNS AND MAINTENANCE TO BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
2. ACCESS TO ENTRANCES SHALL BE MAINTAINED AT ALL TIMES.
3. THE CONTRACTOR SHALL MAINTAIN DRAINAGE THROUGHOUT CONSTRUCTION.
4. TYPE A LOW INTENSITY FLASHING LIGHTS SHALL BE USED ON THE FIRST SIGN IN ADVANCE OF THE WORK SITE AND ON ALL TYPE III BARRICADES DURING THE HOURS OF DARKNESS.
5. BARRICADES AND SIGNS SHALL BE POSITIONED AS SHOWN, ACCORDING TO HIGHWAY STANDARDS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND AS DIRECTED BY THE ENGINEER.
6. THERE SHALL BE ONE LANE OPEN TO TWO-WAY TRAFFIC AT ALL TIMES DURING CONSTRUCTION USING HIGHWAY STANDARD 701501.
7. FLAGGERS OR A TEMPORARY TRAFFIC SIGNAL SHALL BE USED TO FACILITATE TRAFFIC AT ALL TIMES DURING ANY LANE CLOSURES.
8. PHASE THE LONG-TERM LANE CLOSURE SUCH THAT TROY COLLISION CENTER, RED-E-MIX, TRUCK CENTERS, HOLIDAY INN, AND RED ROOF INN HAVE 24-HR ACCESS FOR PATRONS AND BUSINESS OPERATIONS.

**TRAFFIC CONTROL LEGEND**

- WORK AREA - DAYTIME ONLY CLOSURE W/ FLAGGERS USING HIGHWAY STANDARD 701311-03
- WORK AREA - ONE-LANE, TWO-WAY TRAFFIC WITH TEMPORARY TRAFFIC SIGNAL USING BDE CHECK SHEET 80192
- W20-10 (48" X 48") (FLUORESCENT ORANGE)
- SPECIAL (24" X 24") (FLUORESCENT ORANGE)
- SPECIAL (24" X 24") (FLUORESCENT ORANGE)
- SPECIAL
- TRAFFIC CONTROL SIGN LOCATION
- TYPE A LOW INTENSITY FLASHING LIGHT
- TYPE III BARRICADE

FILE NAME = 221081 - DESIGN.DWG



USER NAME =	DAYNE THORP	DESIGNED -	RDG	REVISED -	
		DRAWN -	RDG	REVISED -	
PLOT SCALE =		CHECKED -	TLC	REVISED -	
PLOT DATE =	2023-07-31	DATE -	2023-06-01	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

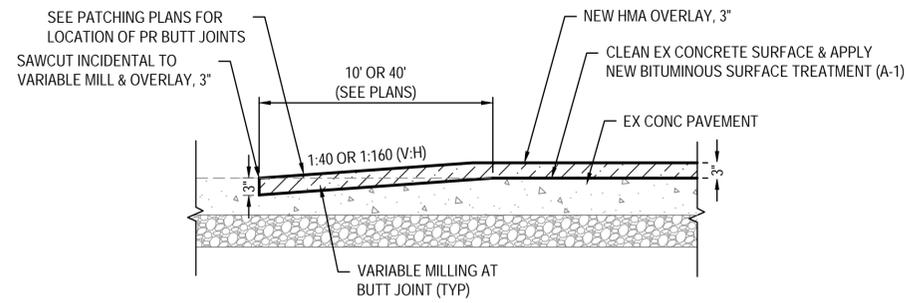
FORMOSA ROAD PATCHING AND RESURFACING  
TRAFFIC CONTROL PLAN

SCALE: 1" = 200' SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	16
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LOCATION	SURFACE COURSE	INCIDENTAL HMA
MIXTURE USE	HMA SURFACING	HMA SURFACING
THICKNESS	3"	3"
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	10%	10%
DESIGN AIR VOIDS	4.0% @ Ndes = 70	4.0% @ Ndes = 70
MIX COMPOSITION	IL-9.5	IL-9.5
FRICTION AGG	MIXTURE "C"	MIXTURE "C"
MIXTURE WEIGHT	112.0 LB/SQ YD/IN	112.0 LB/SQ YD/IN
QMP	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A
MTD	N/A	N/A

1 **HOT-MIX ASPHALT PAVEMENT MIXTURE TABLE**  
SCALE: NO SCALE



2 **BUTT JOINT AND OVERLAY DETAIL**  
SCALE: NO SCALE

FILE NAME = 221081 - DETAILS.DWG



USER NAME =	DAYNE THORP	DESIGNED -	RDG	REVISED -	
		DRAWN -	RDG	REVISED -	
PLOT SCALE =		CHECKED -	TLC	REVISED -	
PLOT DATE =	2023-08-01	DATE -	2023-06-01	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FORMOSA ROAD PATCHING AND RESURFACING  
CONSTRUCTION DETAILS

SCALE: SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

M.U.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6041	22-00037-00-RS	MADISON	17	17
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

[10/23/2023]

ADDENDUM NO. #1  
City of Troy  
Formosa Road Patching and Resurfacing

This addendum forms a part of the bidding and contract documents and modifies the bidding documents. Acknowledge receipt of this addendum in space and include it with your bid. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

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**Special Provisions:**

1. Check Sheet for Recurring Special Provisions – Check #18 to allow a portable traffic signal for the lane closure per standard 701501. The portable traffic signal shall be used in place of the flagger in the Highway Standard.

Addendum #1 consists of 1 page of text and one attachment.

---

RETURN ONE SIGNED COPY TOGETHER WITH YOUR PROPOSAL

Addendum No. 1 is hereby acknowledged.

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

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

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Date: \_\_\_\_\_

Addendum #1  
City of Troy – Formosa Road Patching and Resurfacing