

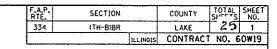
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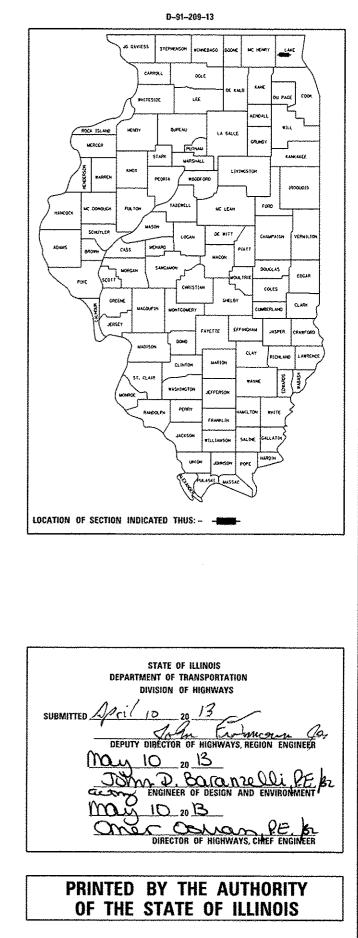
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ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993







INDEX OF SHEETS

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- 6 Typical Section
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- 12 Pavement Marking Details
- 13-22 Structural Plans SI-SIO
- 23 TC11 Typical Applications Raised Reflective Pavement Markers (Snow-Plow Resistant)
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- 25 TC22 Arterial Road Information Sign

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| 701411 - 0B | Multi-Lane Lane Closure at Exit or Entrance Ramp |
| 701422 -05 | Multi-Lone Lane Closure |
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| 701901 - 02 | Traffic Control Devices |

GENERAL NOTES:

- 1. These plans have been prepared from notes received from IDOT Field Maintenance Engineers.
- 2. 10 ft (3 m) transitions shall be used to match proposed items of work to existing items in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed item of work specified.
- 3. Where artificial lighting is utilized in night operations, the Contractor shall exercise the utmost precautions in preventing adverse visibility to the motoring public and adjoining residential areas.
- The Contractor must contact the IDOT Traffic Control Supervisor at (847)705-4470 at least 72 hours prior to installation of the start of work.
- The Resident Engineer shall contact the Area Traffic Field Engineer, Debbie Hanlon, 5. (847)438-2300 at least two (2) weeks prior to the placement of permanent pavement markings.
- 6. All pavement markings and raised reflectors affected by the bridge repairs shall be replaced. Nominal quantities have been included in the contract for this work.
- The Contractor will not be allowed to set up a yard or field office on State property without written permission from the Department,
- 8. Do not scale these plans for construction purposes.
- 9. Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the auantity actually furnished based upon the unit price bid for the work.
- 10. During construction operations, loose material deposits that obstruct the flow of water in draining the area shall be removed before the end of each work day. At the conclusion of construction operations, all drainage structures (new and existing) shall be free from all dirt and debris. This work will not be paid for separately but shall be considered incidental to the contract.
- 11. All raised reflective pavement markers (bridge) shall be low profile.
- 12. Before beginning any work, the Contractor shall retain and record for future reference, all existing pavement marking lines, symbols and letters (and raised reflective markers) in order that these locations can be re-established for striping. Exact locations of all pavement markings and raised reflective pavement markers shall be as directed by the Engineer.
- 13. The plans do not represent a complete depiction of all utilities that may be impacted by the proposed work. The Contractor shall conduct his or her own investigation to determine the ownership of impacted utilities. The Contractor shall coordinate with the utility owners and may be required to provide temporary support, adjust, relocate or remove utilities that are impacted by the proposed improvement. This work shall be considered incidental to the project.

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| | | | 10%STATE | | | |
| CODE NO. | ITEM | UNIT | TOTAL | ROADWAY 0021 URBAN | BRIDGE 0014 049-0022 | BRII 00 049- |
| | | · · · · · · · · · · · · · · · · · · · | | - | | |
| 20200100 | EARTH EXCA VATION | CU YD | 170 | 170 | | |
| 20400800 | FURNISHED EXCA VATION | CU YD | 85 | 85 | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 1317 | 1317 | | |
| | | | | | | |
| 25000210 | SEEDING, CLASS 2A | ACRE | 0.5 | 0.5 | | |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 45 | 45 | | |
| : | | | | | | |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 45 | 45 | | |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 1317 | 1317 | | |
| | | | | | | |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 1500 | 1500 | | |
| 50102400 | CONCRETE REMOVAL | CU YD | 10,4 | | 5.2 | 5 |
| | | | | | | _ |
| 50157300 | PROTECTIVE SHIELD | SQ YD | 9 | · | | |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 10.4 | | 5,2 | 5 |
| 50300300 | PROTECTIVE COA T | SQ YD | 46 | | 23 | |
| | | | | | | |
| 50800205 | REINFORCEMENT BARS, EPOXY COA TED | POUND | 1320 | | 660 | 61 |
| 50800515 | BAR SPLICERS | EACH | 16 | | 8 | |
| 14 | | | | | | |

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| | CODE NO. | ITEM | UNIT | | ROADWAY 0021 URBAN | 0014 | BRIDGE 0014 049-0023 |
| | 52000110 | PREFORMED JOINT STRIP SEAL | FOOT | 210.0 | | 104.5 | 105.5 |
| ~ | 60600605 | CONCRETE CURB, TYPE B | FOOT | 48 | 48 | | · |
| - | 63000001 | | | 4444 | | | |
| - | 03000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6FOOT POSTS | FOOT | 1111 | 1111 | | |
| | 63100045 | TRAFFIC BARRIER TERMINAL, TYPE 2 | EACH | 3 | 3 | | |
| | 63100085 | TRAFFIC BARRIER TERMINAL, TYPE 6 | EACH | 3 | 3 | | |
| | 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 2 | 2 | | |
| | 63200310 | GUARDRAIL REMOVAL | FOOT | 100 | 100 | | · · · · · · · · · · · · · · · · · · · |
| <u> </u> | 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CALMO | 3 | 3 | | |
| | 67100100 | MOBILIZATION | LSUM | 1 | 1 | | |
| | | | | | | | |
| | 70301000 | WORK ZONE PA VEMENT MARKING REMOVAL | SQFT | 1169 | 1169 | | · · · · · · |
| - | 78008210 | POLYUREA PA VEMENT MARKING TYPE I - LINE 4" | FOOT | 632 | 632 | | |
| | 78008220 | POLYUREA PA VEMENT MARKING TYPE I - LINE 5". | FOOT | 81 | 81 | | · · · |
| | 78008250 | POLYUREA PA VEMENT MARKING TYPE I - LINE 12" | FOOT | 220 | 220 | | |
| | 78100105 | RAISED REFLECTIVE PA VEMENT MARKER (BRIDGE) | EACH | 8 | 8 | | |

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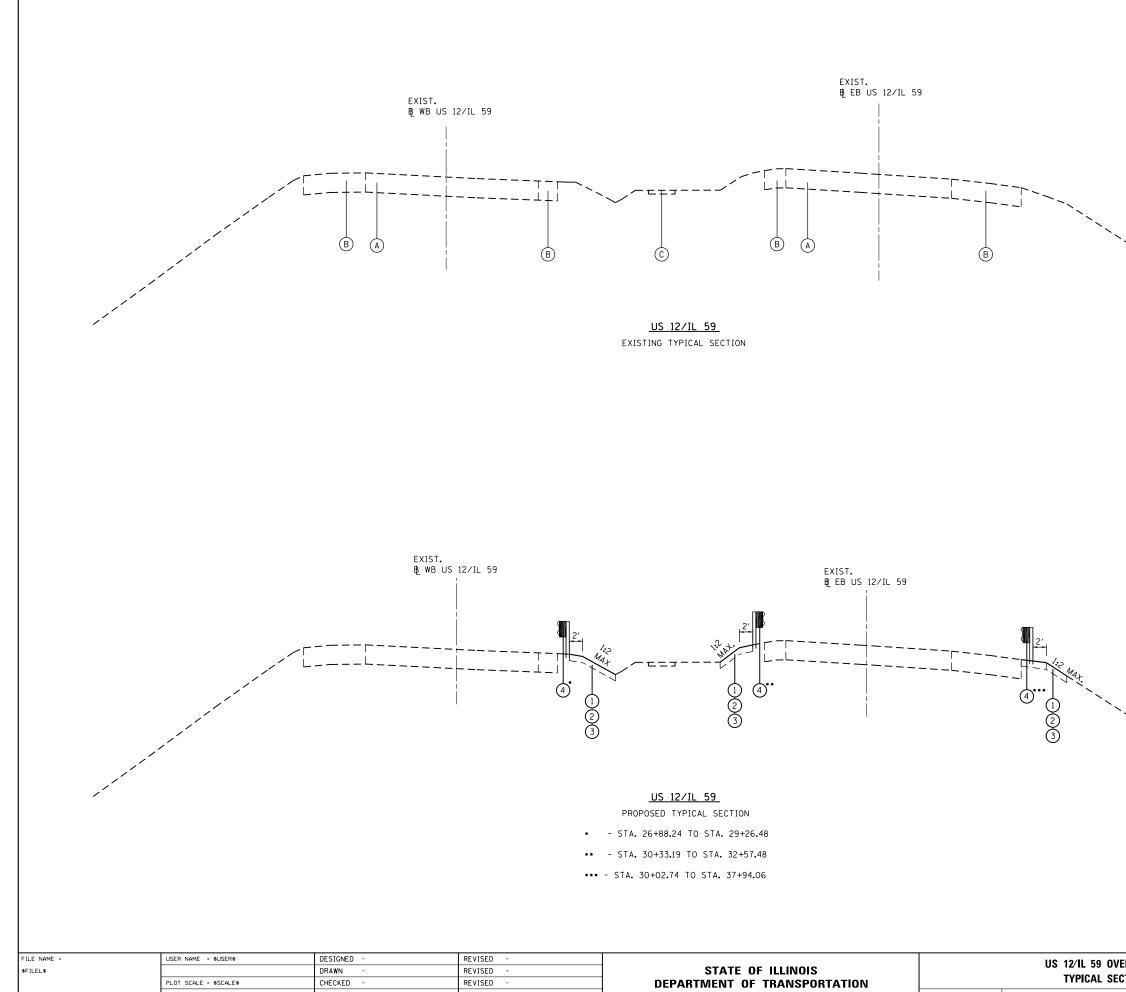
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90%. FED. CONSTRUC 10%.STATE ROADWAY CODE TOTAL 0021 NO, ITEM UNIT QUANTITY URBAN 78100300 REPLACEMENT REFLECTOR 6 6 EACH * 78200410 GUARDRAIL MARKERS, TYPE A 18 ÷ EACH 18 X 78201000 TERMINAL MARKER - DIRECT APPLIED 2 2 EACH 78300100 PAVEMENT MARKING REMOVAL SQFT 193 193 78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH 8 8 X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL) L SUM 1 1 X7030045 1753 1753 WET REFLECTIVE TEMPORA RY TAPE TYPE III, 8 INCH FOOT Z0001800 APPROACH SLAB REPAIR (PARTIAL DEPTH) 21 SQ YD Z0012102 CONCRETE BRIDGE DECK SCARIFICATION (3/8 INCH) 1322 SQ YD Z0012193 BRIDGE DECK THIN POLYMER OVERLAY 3/8" SQ YD 1322 Z0012754 23 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ FT Z0016200 6 DECK SLAB REPAIR (PARTIAL) SQ YD Z0030850 TEMPORARY INFORMATION SIGNING 52 52 SQ FT Z0076600 TRA INEES-HOUR

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EXISTING LEGEND:

- (A) EXIST. PAVEMENT
- B EXIST. SHOULDER
- C EXIST. PAVED DITCH

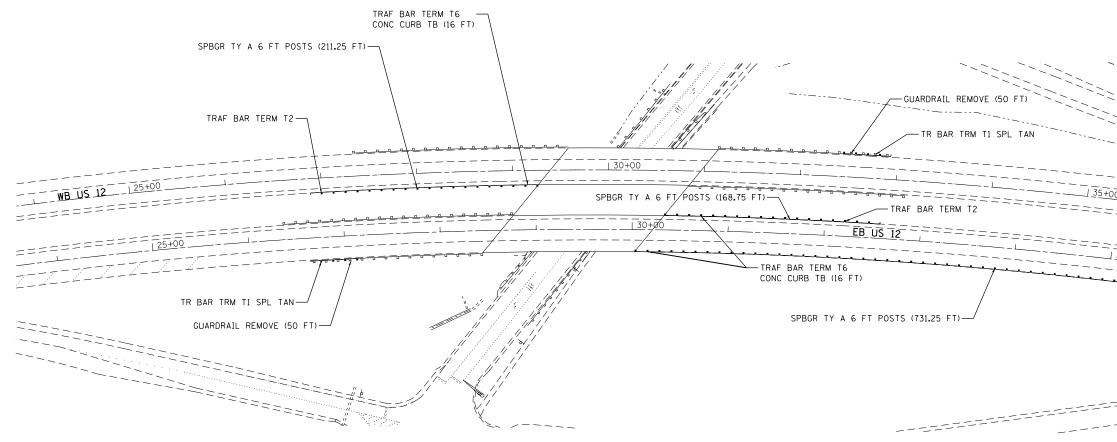
PROPOSED LEGEND:

- 1 EROSION CONTROL BLANKET
- 2 TOPSOIL FURNISH AND PLACE, 4"
- 3 SEEDING, CLASS 2A
- (4) STEEL PLATE BEAM GUARDRAIL

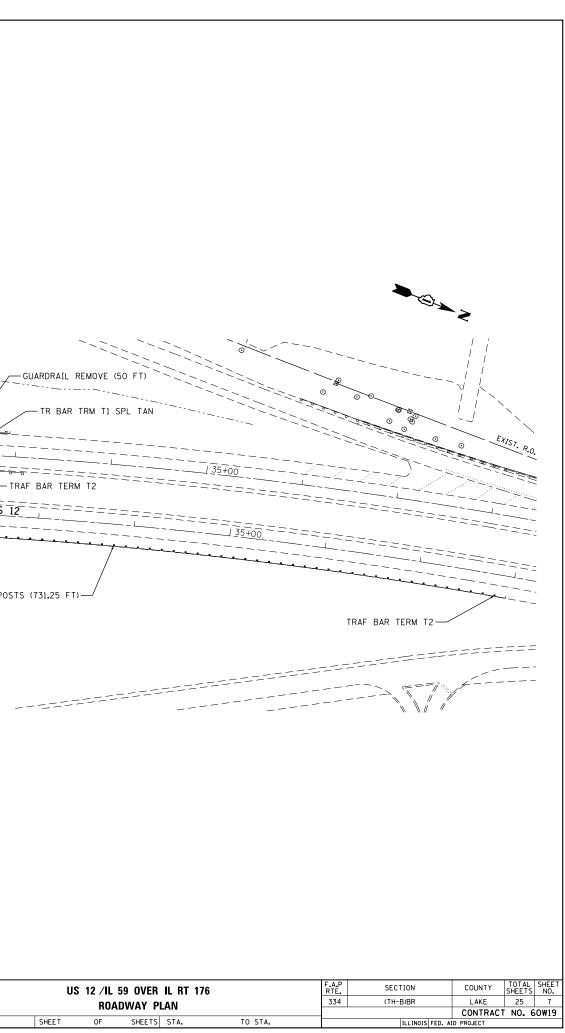
| US 12/IL | . 59 OVEF | R IL 176 | | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| TYPICAL SECTION | | | | 334 | (TH-B)BR | LAKE | 25 | 6 |
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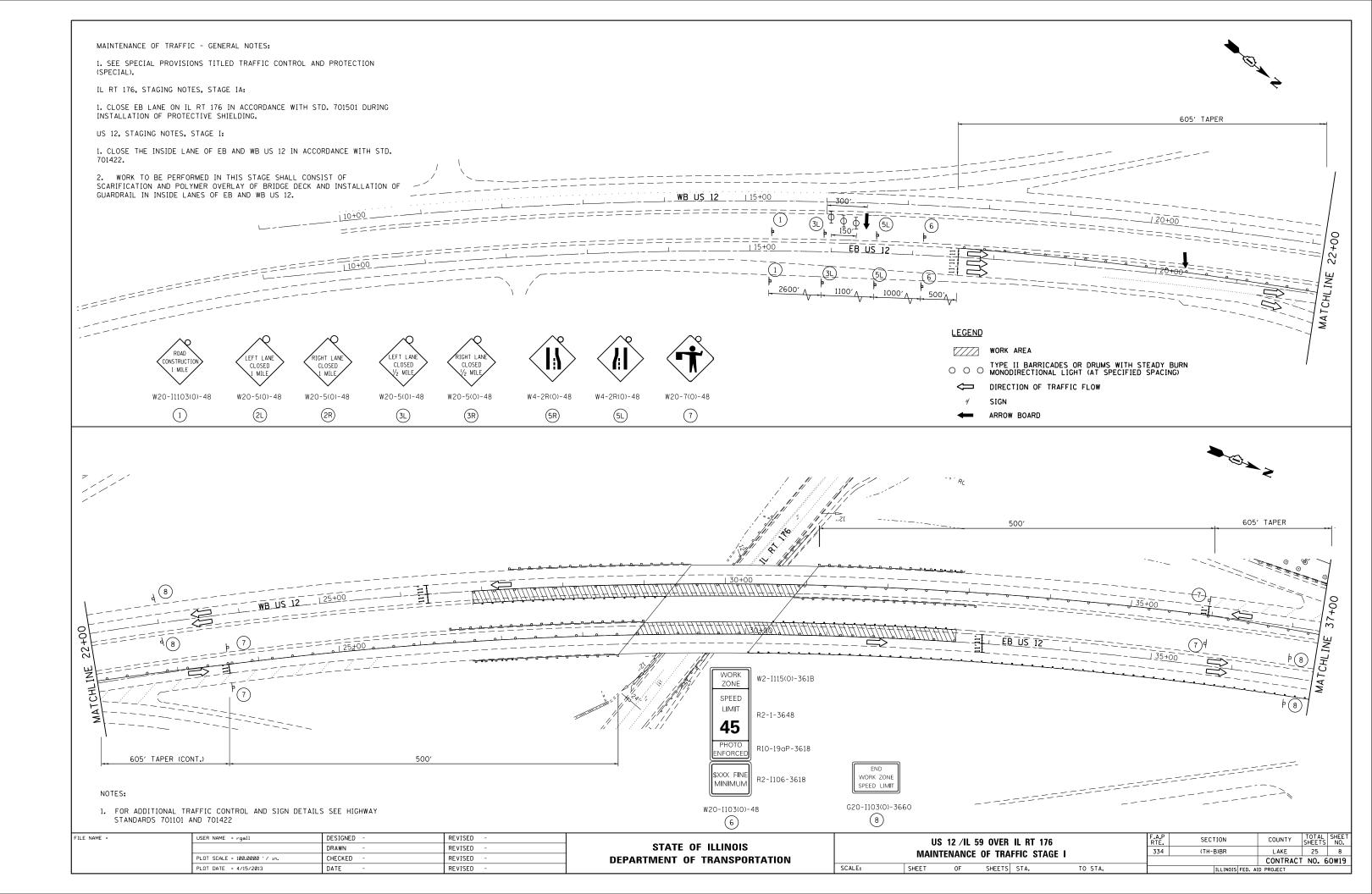
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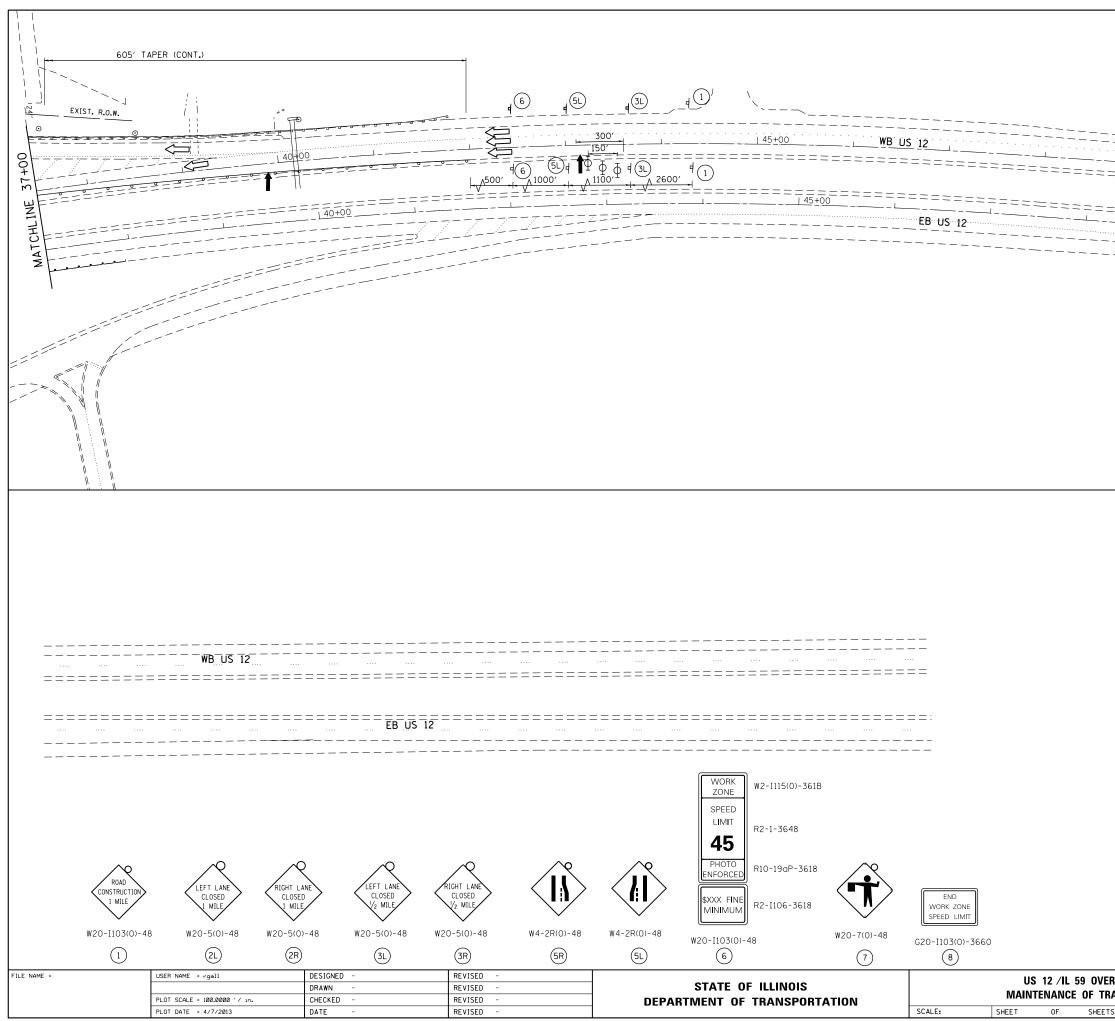
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NOTES:

1. FOR ADDITIONAL TRAFFIC CONTROL AND SIGN DETAILS SEE HIGHWAY STANDARDS 701422

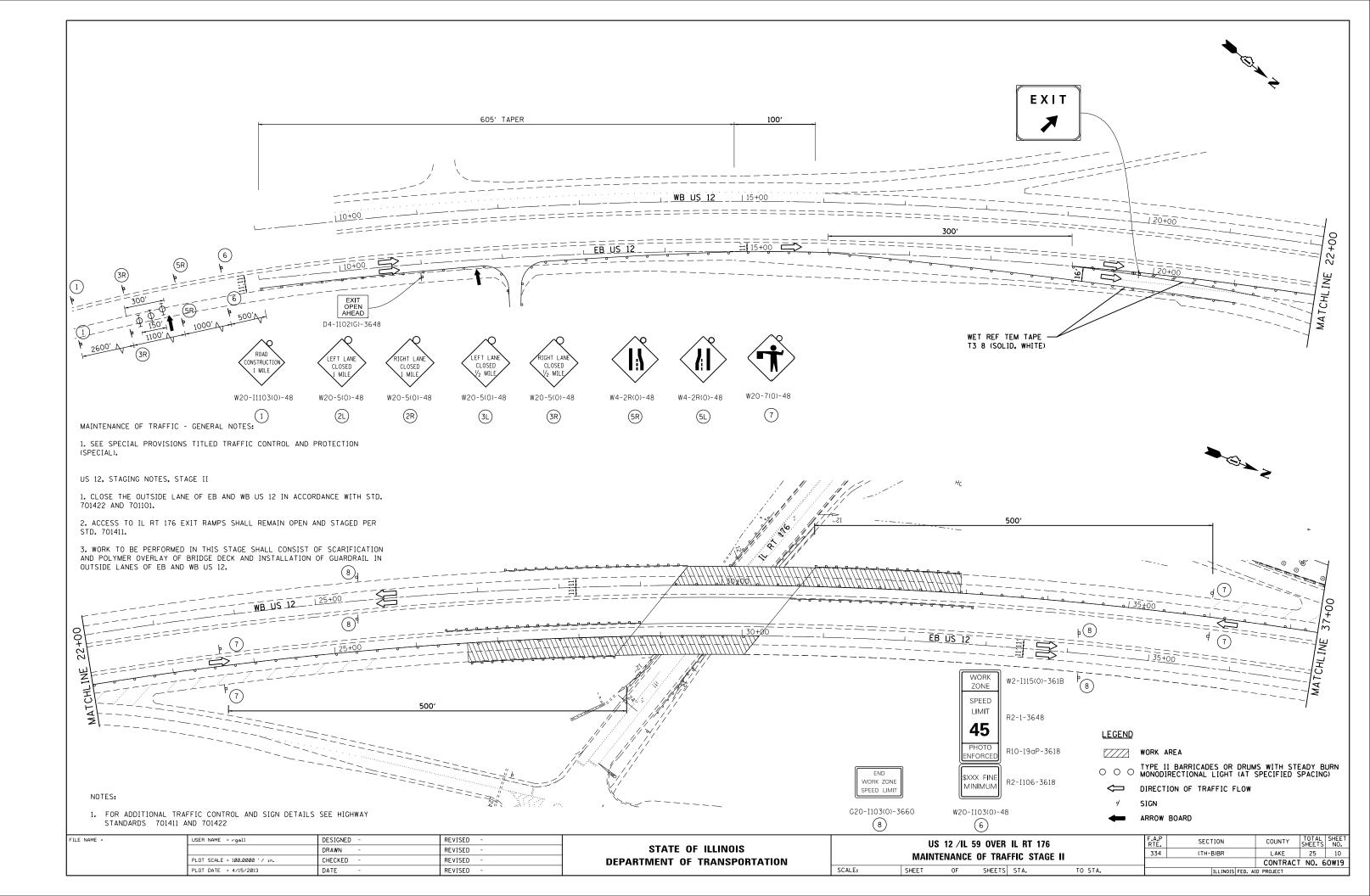
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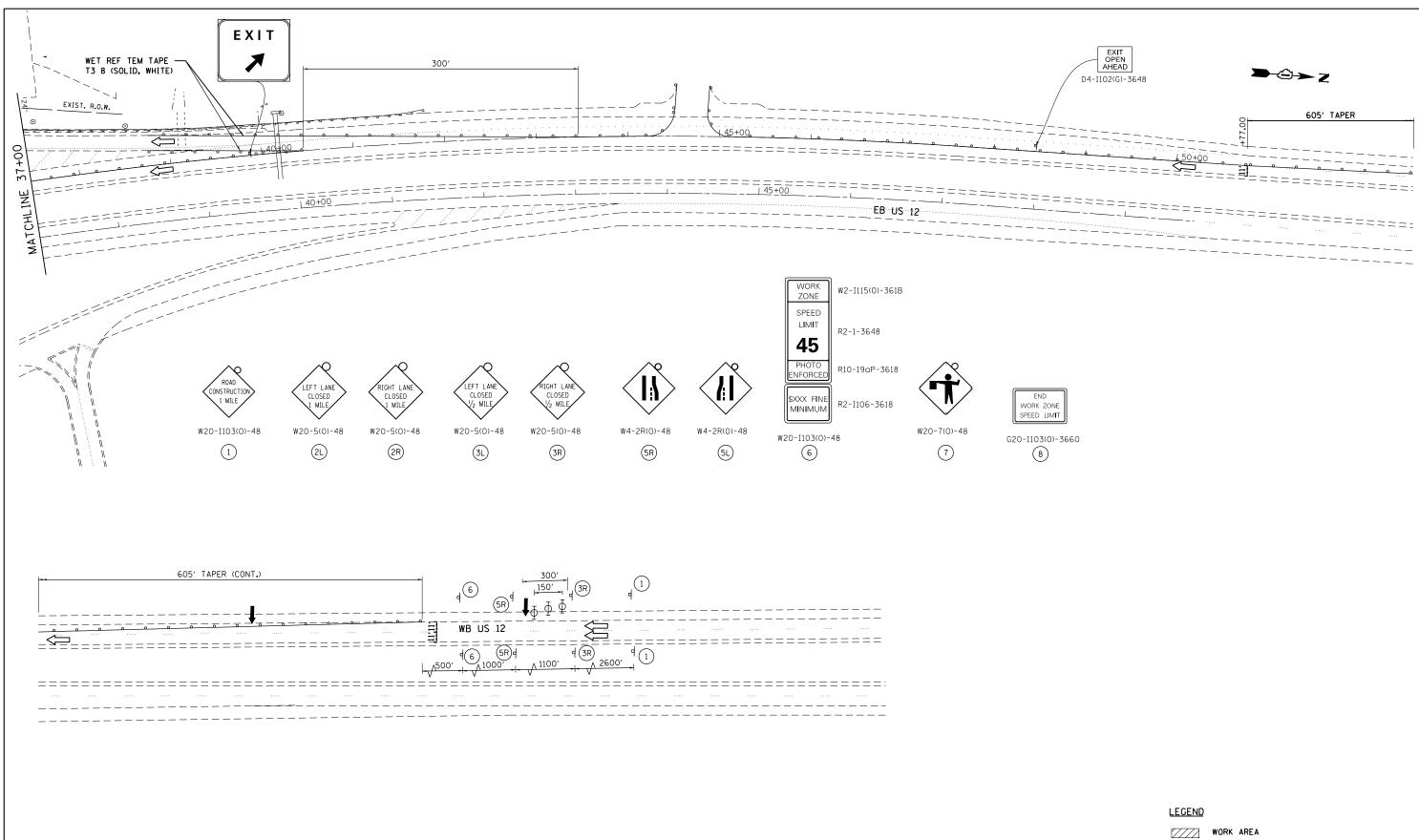
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TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)

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NOTES:

1. FOR ADDITIONAL TRAFFIC CONTROL AND SIGN DETAILS SEE HIGHWAY STANDARDS 701411 AND 701422

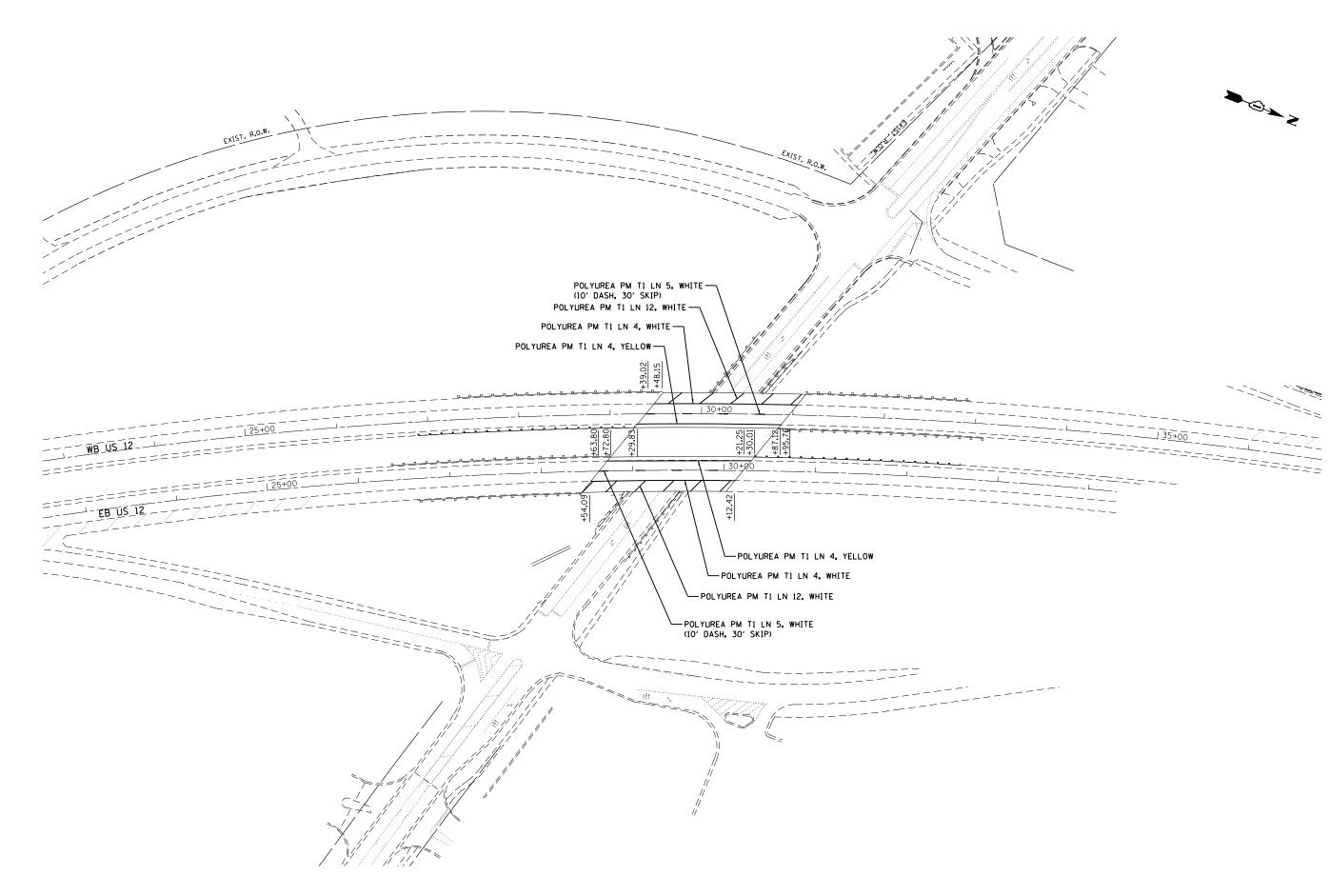
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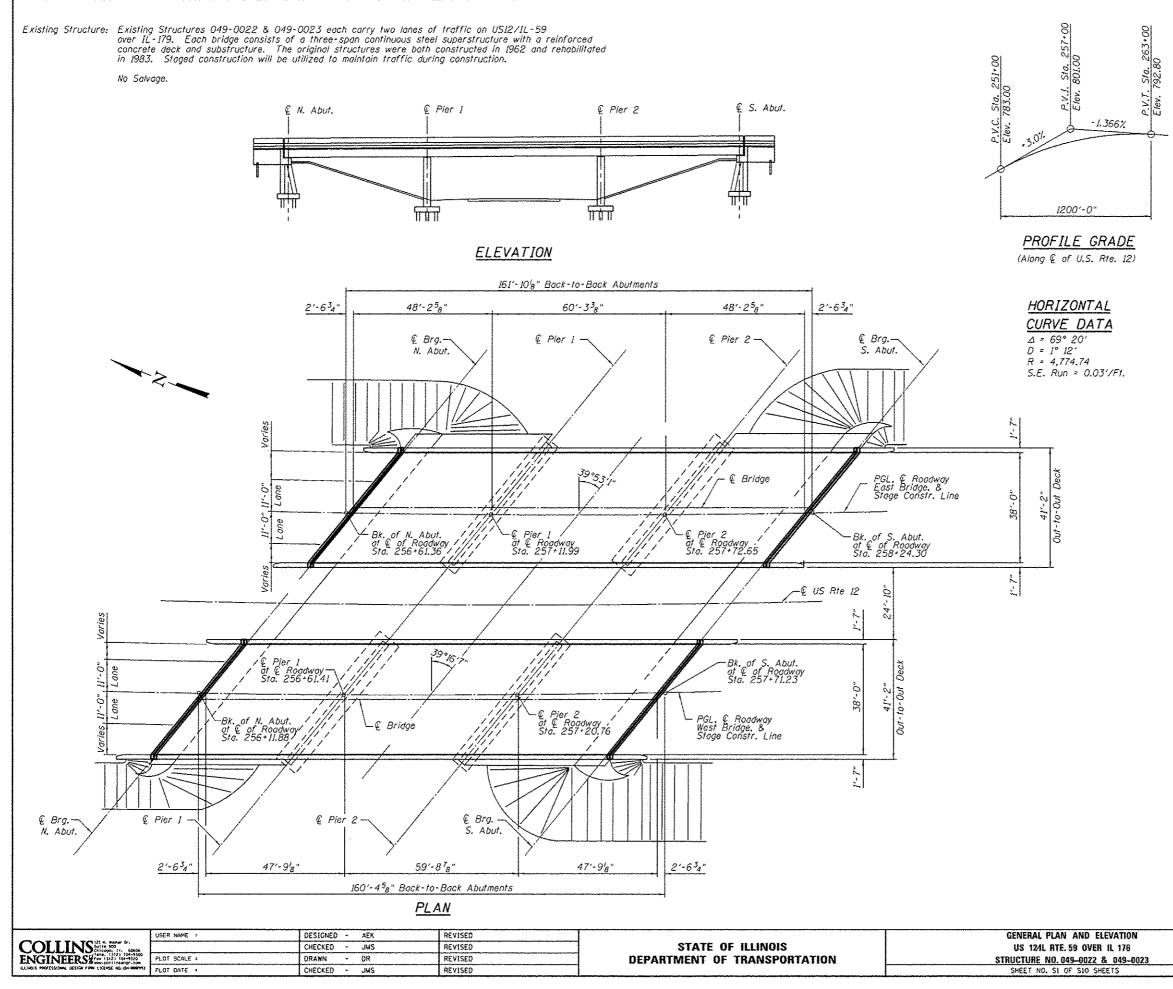
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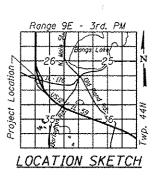
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LOADING HS20-44

DESIGN STRESSES FIELD UNITS

f'c = 3,500 psi fy = 60,000 psi (Reinforcement)

SCOPE OF WORK

- I, Bridge deck scarification.
- 2. Reconstruct deck joints at each abutment with shallow strip seal.
- 3. Place new polymer overlay on bridge deck.
- 4. Structural Repair of Concrete.
- 5. Deck and Approach Slab Repairs.



COLLINS ENGINEERS, INC. JASON M. SCHNEIDER NO. 81-7245 EXPIRES 11-30-2014

| ELEVATION | F.A.P. RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
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| 2 & 049-0023 | | | CONTRACT | NO. 6 | OW19 | | |
| SHEETS | ILLINOIS FED. AID PROJECT | | | | | | |

INDEX OF SHEETS

- SI General Plan & Elevation
- S2 General Notes, Index of Sheets and Total Bill of Materials
- S3 Stage Construction Details
- S4 Bridge Deck Repairs
- S5 Expansion Joint Repairs S.N. 049-0022
- S6 Expansion Joint Details S.N. 049-0022
- S7 Expansion Joint Repairs S.N. 049-0023
- S8 Expansion Joint Details S.N. 049-0023
- S9 Preformed Joint Strip Seal
- SIO Bar Splicer Assembly and Mechanical Splicer Details

GENERAL NOTES:

- 1. Reinforcement bars designated (E) shall be epoxy coaled.
- 2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity furnished at the unit price bid for the work.
- 3. The Contractor shall exercise care during removal of existing expansion joints to ensure that the slab, beams, and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repoir any damage(s) to the slab, beams, and diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
- Cost for removal and disposal of existing expansion joints shall be included in the pay item "Concrete Removal."
- 5. Staged construction shall be utilized to maintain traffic during construction.
- Joint openings shall be adjusted according to Article 520.04 of the Std. Specs, when the deck is poured at an amblent temperature other than 50° F.
- 7. Protective Coat shall be applied to the transverse joint reconstruction areas including top and inside faces of the bridge deck parapets.
- 8. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar or anchorage system. Cost included with Concrete Removal.
- 9. Joint plates and attached bars shall be painted with the inorganic zinc rich primer. No field paint required,
- JO. The deck surface shall have its final finish tined according to Article 420.09(e)(J) of the Standard Specifications. Cost included with Concrete Superstructure.

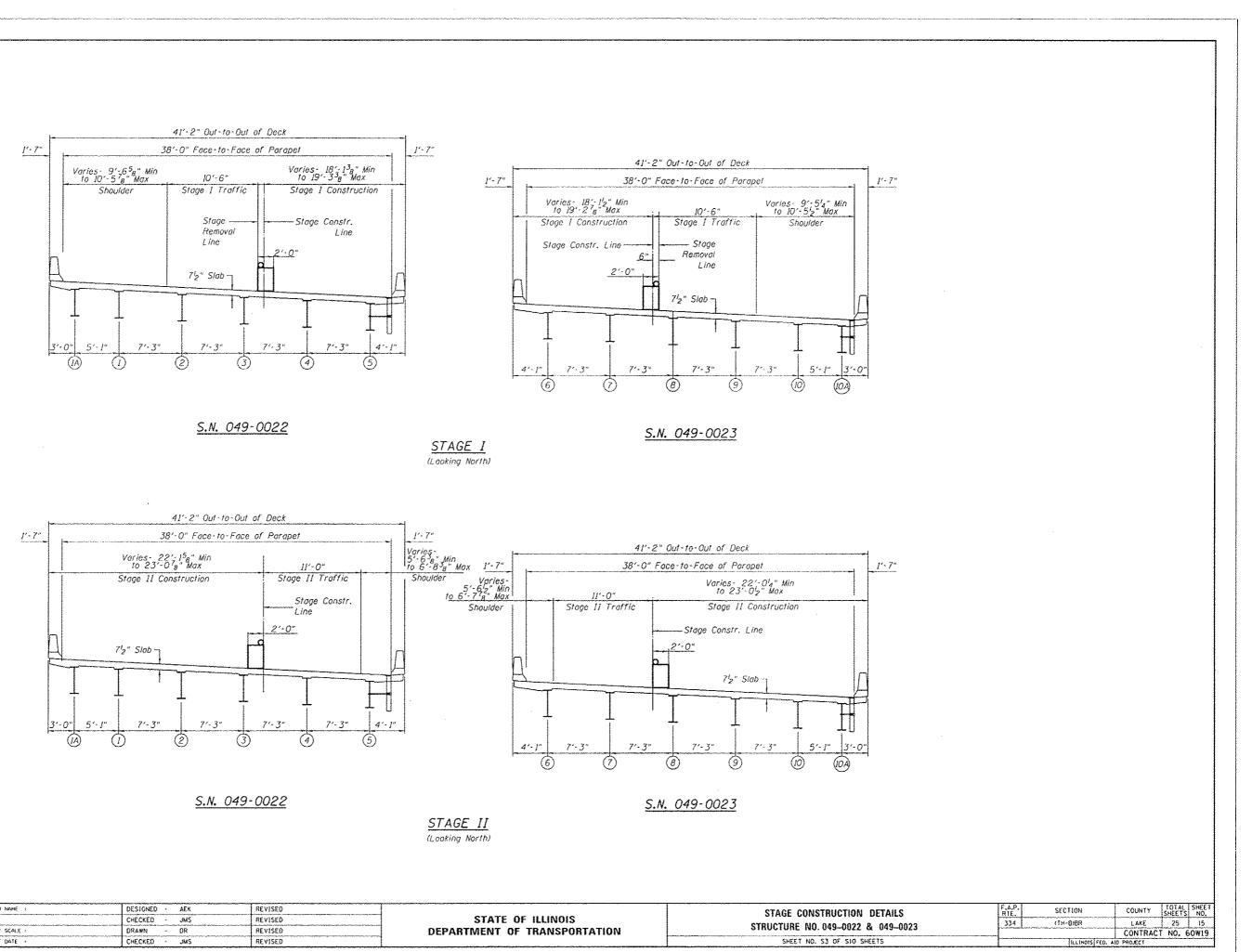
Protective Coal Concrete Remo Concrete Super Reinforcement Bar Splicers Preformed Join Approach Slab Deck Slab Rep Bridge Deck Su Bridge Deck Tu Structural Rep. Protective Shie

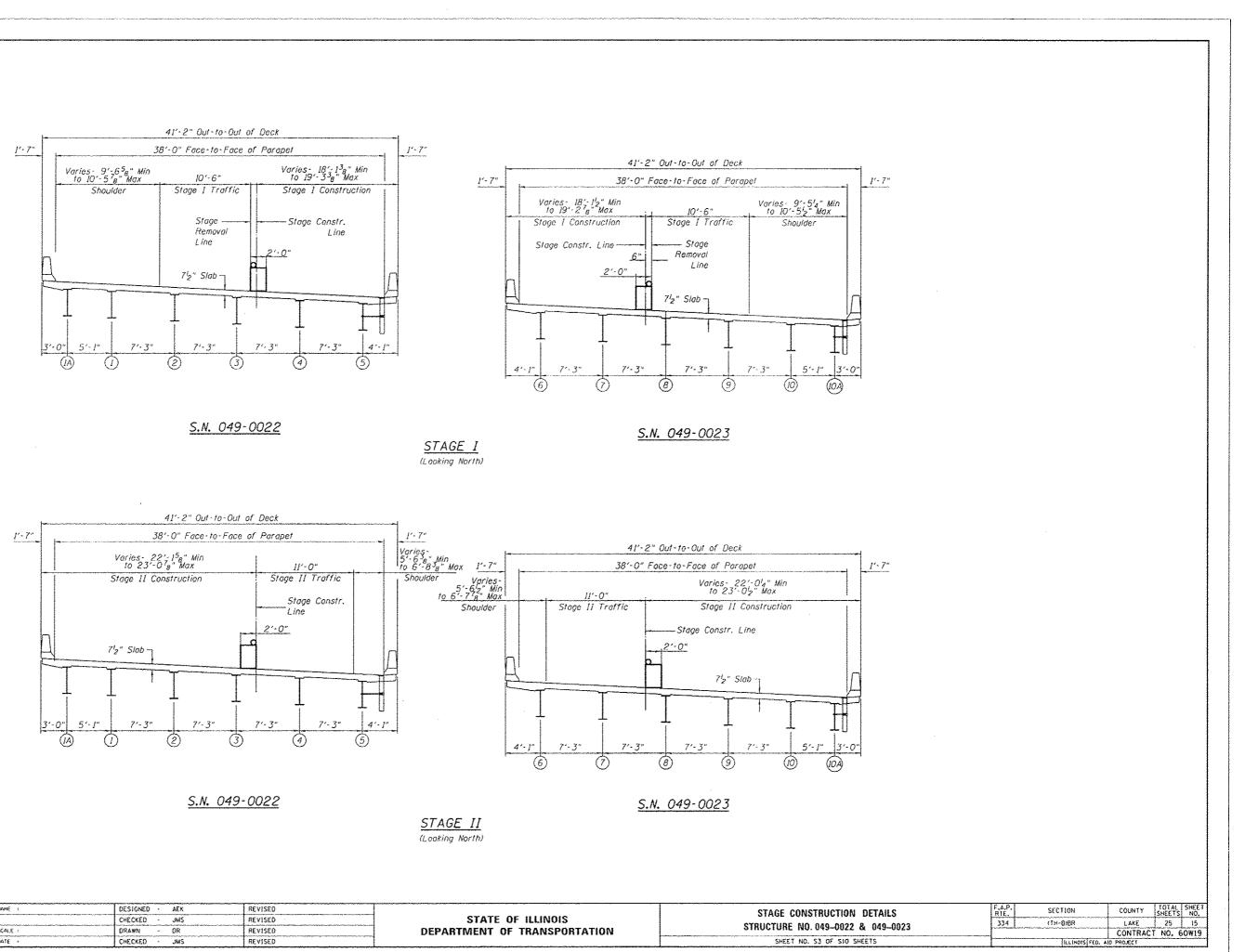
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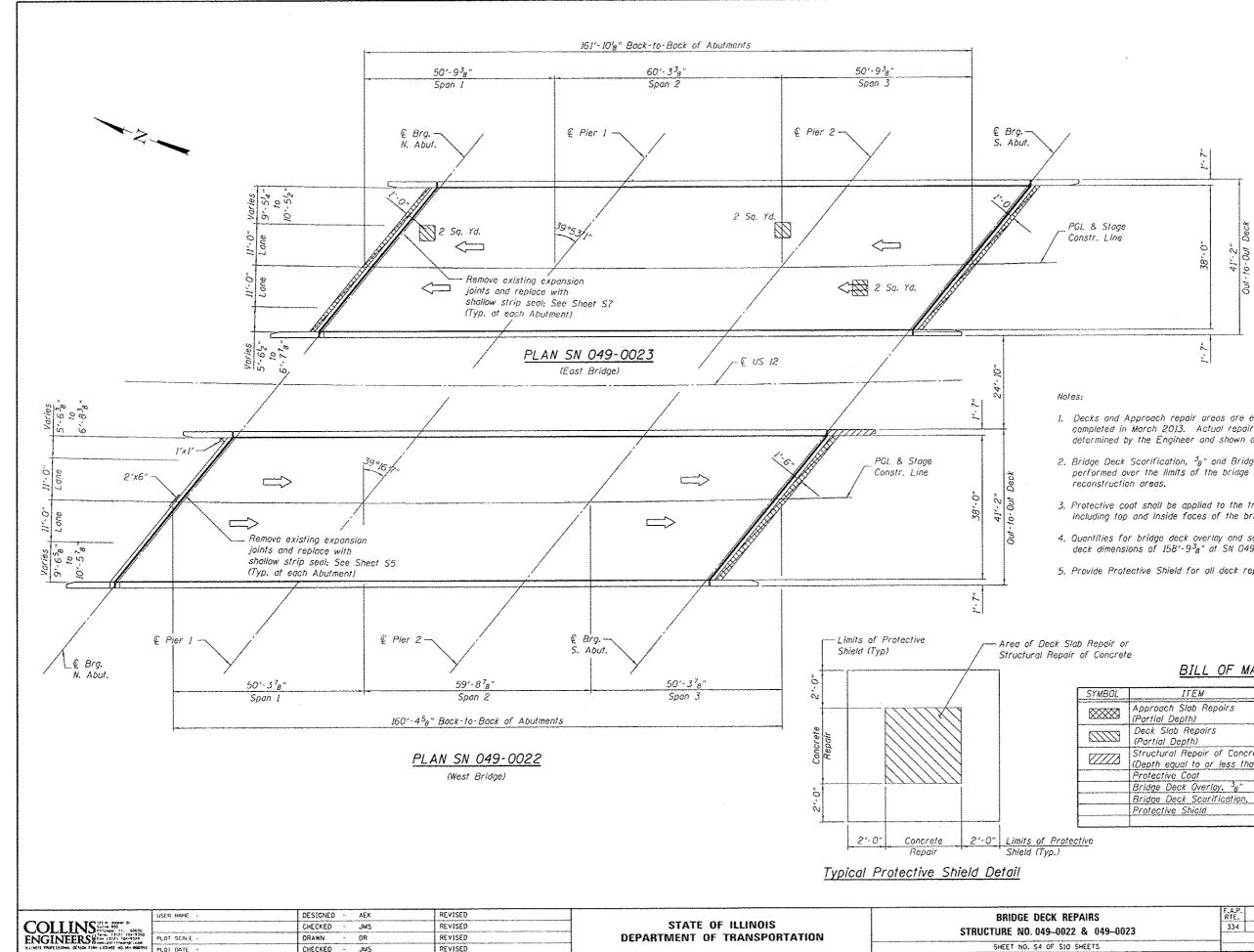
TOTAL BILL OF MATERIAL

| ITEM DESCRIPTION | UNIT | OUANTITY |
|---------------------------------------------------|---------|----------|
| 3) | Sq. Yd. | 46 |
| ovol | Cu, Yd. | 10.4 |
| erstructure | Cu. Yd. | 10.4 |
| Bars, Epoxy Coated | Pound | 1320 |
| | Each | 16 |
| int Strip Seal | Foot | 210.0 |
| b Repair (Partial Depth) | Sq. Yd. | 21 |
| pair (Partial Depth) | 5q. Yd. | 6 |
| Scarification, ³ ⁸ " | Sq. Yd. | 1322 |
| Thin Polymer Overlay, ³ 8" | Sq. Yd. | 1322 |
| pair of Concrete (Depth equal to or less than 5") | Sq. Ft. | 23 |
| iold | Sq. Yd. | 9. |
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|) TOTAL BILL OF MATERIALS | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| & 049-0023 | 334 | ITH-BIBR | LAKE | 25 | 14 - |
| . & 043-0023 | | | CONTRACT NO. 60W19 | | |
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I. Decks and Approach repair areas are estimated based on visual inspection completed in March 2013. Actual repair areas and locations shall be determined by the Engineer and shown on As-Built Plans.

2. Bridge Deck Scarification, ${}^3_8{}^{"}$ and Bridge Deck Overlay, ${}^3_8{}^{"}$ shall be performed over the limits of the bridge deck, excluding the transverse joint

3. Protective coat shall be applied to the transverse joint reconstruction areas including top and inside faces of the bridge deck parapets.

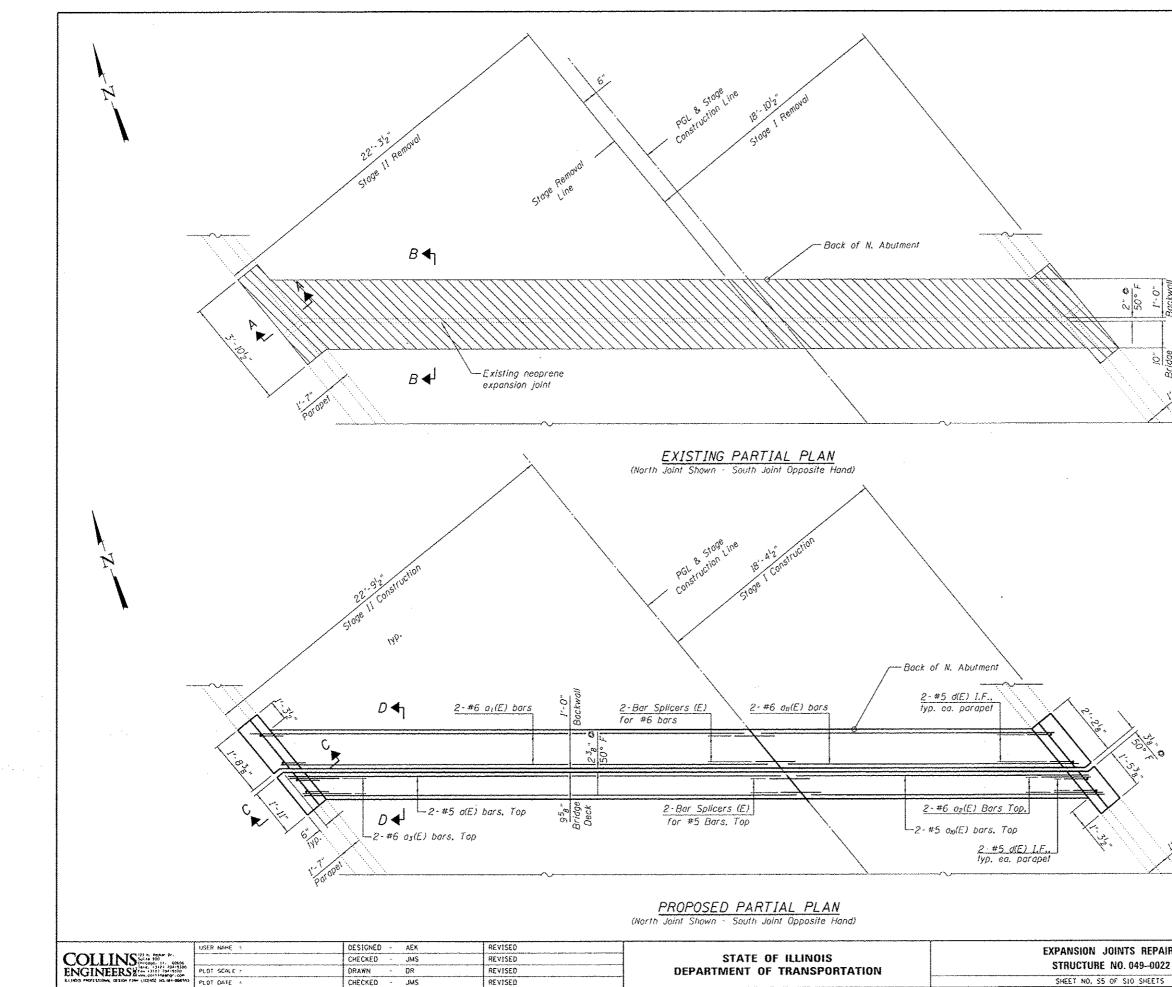
Quantities for bridge deck overlay and scarification are based on end-to-end deck dimensions of 158⁻⁹³³^a at SN 049-0023 and 157⁻⁴⁵^a^a at SN 049-0022.

5, Provide Protective Shield for all deck repairs within Span 2.

BILL OF MATERIAL

| SYMBOL | ITEM | UNIT | QUANTITY |
|--------|--------------------------------------------------------------------|---------|----------|
| | Approach Slab Repairs (Partial Depth) | Sq. Yd. | . 21 |
| []]]] | Deck Slab Repairs (Partial Depth) | Sq. Yd. | 6 |
| 77772 | Structural Repair of Concrete (Depth equal to or less than, 5") | Sq. Fl. | 23 |
| | Protective Coat | Sq. Yd. | 46 |
| | Bridge Deck Overloy. 38" | Sq. Yd. | 1322 |
| | Bridge Deck Scarification, 3 _B * | Sq. Yd. | 1322 |
| | Protective Shield | Sq. Yd. | 9 |
| | | | |

| EPAIRS | F.A.P. RTE. | SECTION | COUNTY | TOTAL | SHEET NO. |
|---------------|----------------|------------------|-----------|-------|--------------|
| 22 & 049-0023 | 334 | (TH-B)8R | LAKE | 25 | 16 |
| 2 & 043-0023 | | | CONTRACT | NO. 6 | OW19 |
|) SHEETS | | ILL INOIS FED. A | O PROJECT | | |



NORTH AND SOUTH JOINTS SN 049-0022 BILL OF MATERIALS

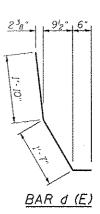
| | Bor | No, | Size | Length | Shape |
|---|-----------------------|----------|--------|---------|----------|
| × | q(E) | 4 | #5 | 28'-4" | |
| * | a1(E) | 4 | #6 | 28'-4" | |
| | 02(E) | 4 | #6 | 4'-9" | · |
| | 03(E) | 4 | #6 | 6'-2" | |
| * | 0 10(E) | 4 | #5 | 22'-8" | |
| * | 0 11(E) | 4 | #6 | 22'-8" | |
| | d(E) | 16 | #5 | 3'-11" | <u> </u> |
| | Concrete | Removal | | Cu. Yd. | 5.2 |
| | Concrete | Superstr | ucture | Cu. Yd. | 5.2 |
| | Reinforce Epoxy Co | | Pound | 660 | |

* See Note 3

Indicates Concrete Removal

Notes:

- I. Work this sheet with Sheets S6 and S9,
- 2. I.F. Denotes Inside Face. O.F. Denotes Outside Face.
- 3. Rebar lengths denoted with an asterisk are based on shoulder and lone widths detailed on existing plans. Contractor shall verify the shoulder and lane widths prior to ordering materials and adjust rebar lengths accoringly. Cost of this work shall be included in the pay item for "Reinforcement Bars, Epoxy Coated".

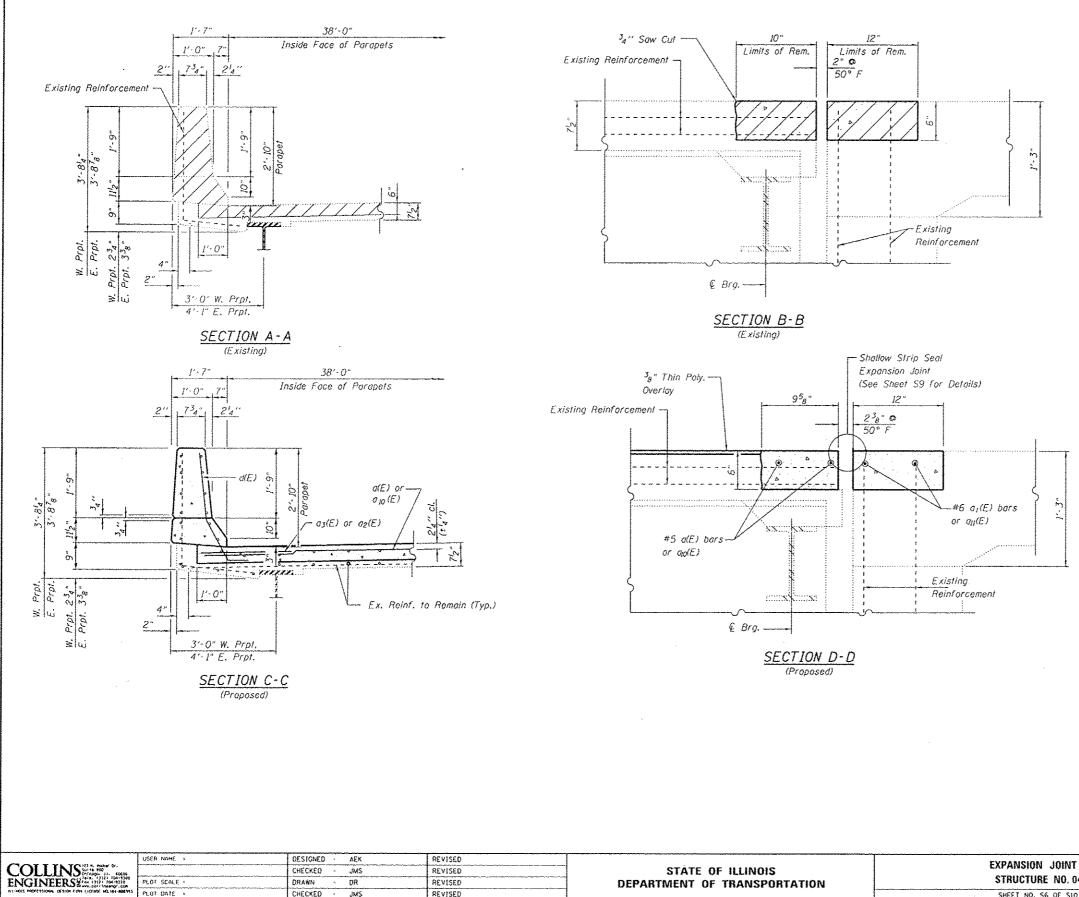


| 1 poropet | | | | | |
|-----------|----------------|----------|---------|---------|--------------|
| | | | | | |
| REPAIRS | F.A.P. RTE. | SECTION | COUNTY | TOTAL | SHEET NO. |
| 90022 | 334 | (TH-B)8R | LAKE | 25 | 17 |
| | | | CONTRAC | T NO. 6 | OW19 |

ILLINOIS FED. AND PROJECT

| د ۲ ۲ | 1'-0" | Backwol | | |
|-------------|-------------|---------|----------------------|-----|
| | ,0 <i>i</i> | Bridge | Deck | |
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| TRANSPORTATION | STRUCTURE | NO | , 04 | ç |
|----------------|--------------|------|-------|---|
| | SHEET NO, 56 | OF : | S10 1 | 5 |

PLOT SCALE -PLUT DATE . DRAWN

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DEPARTMENT OF

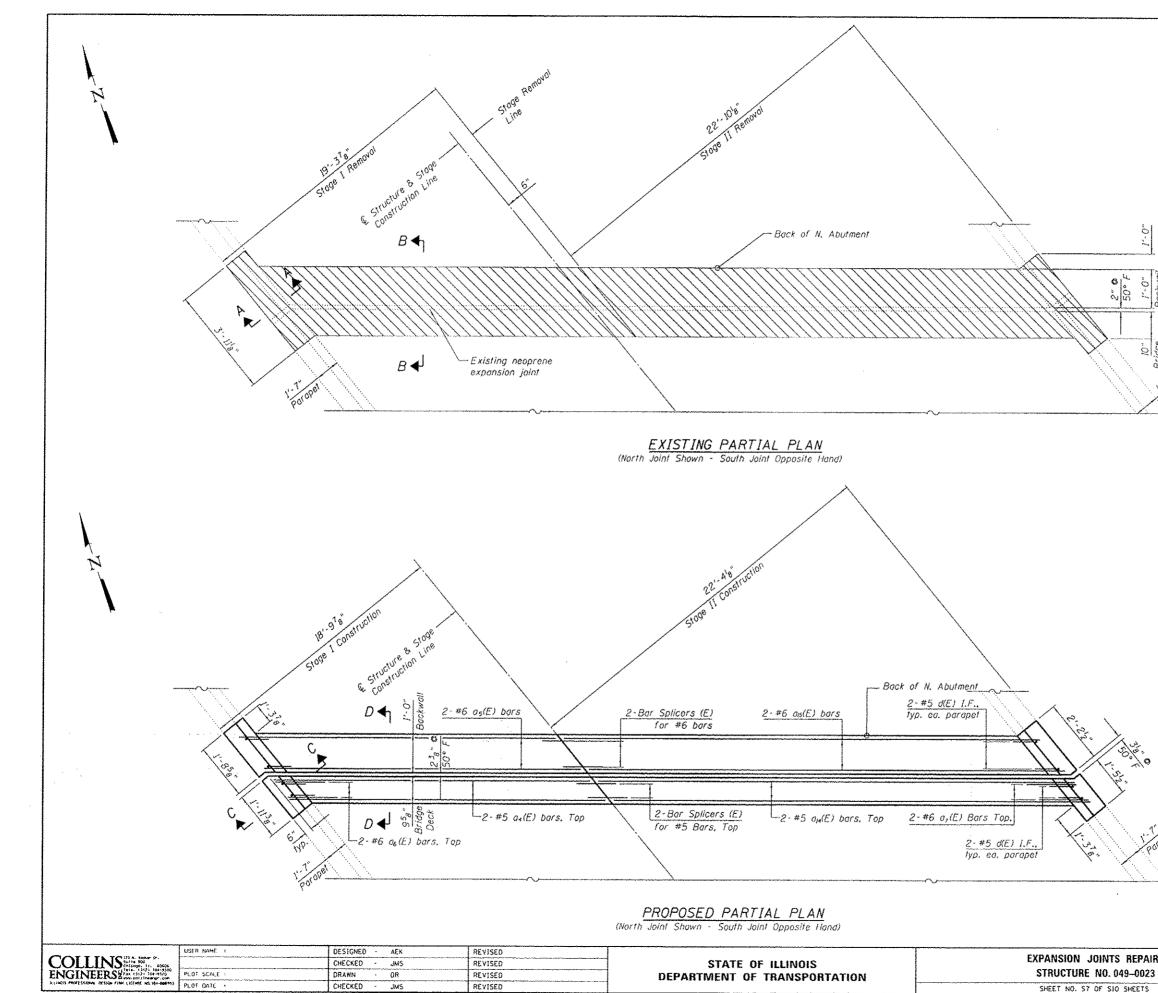
Notes:

- I. Existing reinforcement bars in the concrete removal area parallel to the expansion joints shall be removed.
- 2. Remaval and disposal of the existing expansion joints will not be paid for separately, but shall be included with the cost of Concrete Removal.
- 3. Work this sheet with Sheets S5 & S9.



Indicates Concrete Removal

| DETAILS | F.A.P. RTE, | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------|----------------|-----------------|-----------|-----------------|--------------|
| 9-0022 | 334 | (TH-B)BR | LAKE | 25 | 18 |
| | | | CONTRACT | NO. 6 | 0119 |
| SHEETS | | ULLINOIS FED. A | D PRO.FCT | | |



| | NORTH AND SOUTH JOINTS | | | | | | |
|---|------------------------|-----------------------------------------------------------------------------------------------------------------|------|---------|-------|--|--|
| | <u>SN 049-0023</u> | | | | | | |
| | B | ILL OF | MAT | ERIALS | 2 | | |
| | Bor | No. | Size | Length | Shape | | |
| * | 04(E) | 4 | #5 | 23'-5" | | | |
| * | 05(E) | 4 | #6 | 23'-5" | | | |
| | 06(E) | 4 | #6 | 4'-9'2" | | | |
| | 01(E) | 4 | #6 | 6' 22" | | | |
| * | 014(E) | 4 | #5 | 28'-0" | | | |
| * | 015 (E) | 4 | #6 | 28'-0" | | | |
| | | | | | | | |
| | d(E) | 16 | #5 | 3'-11" | | | |
| | | | | | | | |
| | Concrete | the second se | | Cu. Yd, | 5.2 | | |
| | Concrete | | | Cu. Yd. | 5.2 | | |
| | Reinforce Epoxy Co | | \$, | Pound | 660 | | |

* See Note 3

Indicates Concrete Removal

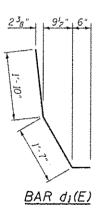
Notes:

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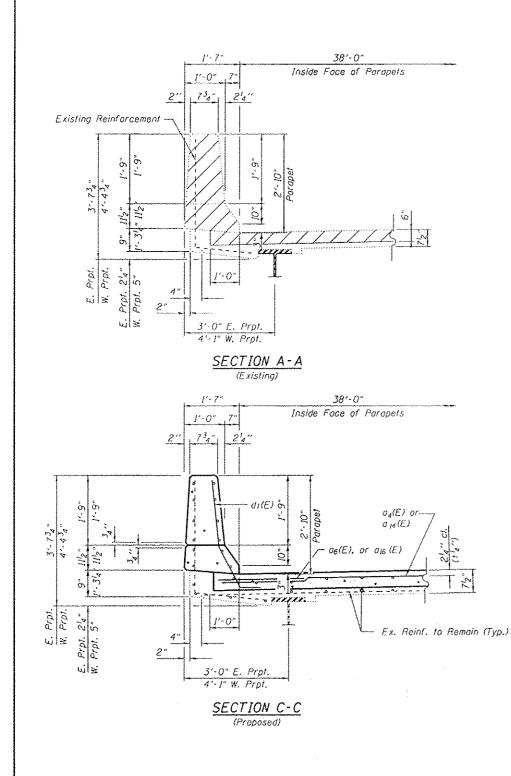
Bridge

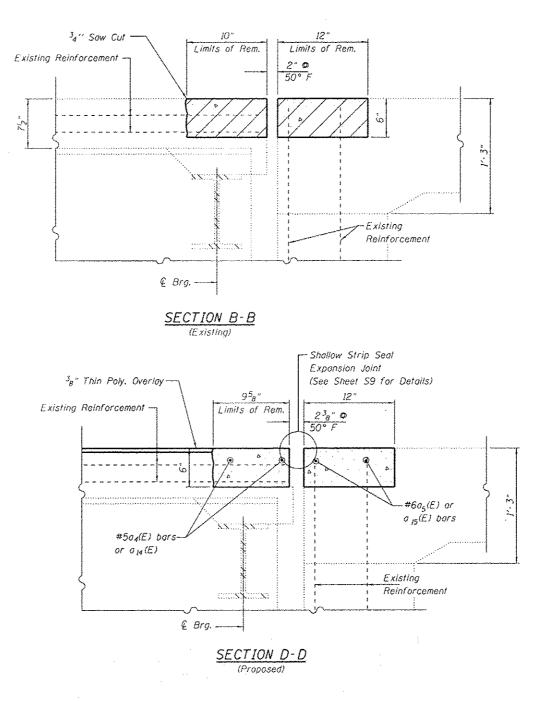
- I. Work this sheet with Sheets S8 and S9.
- 2. I.F. Denotes Inside Face. O.F. Denotes Outside Face.
- 3. Rebar lengths denoted with an asterisk are based on shoulder and lane widths detailed on existing plans, Contractor shall verify the shoulder and lane widths prior to ordering materials and adjust rebar lengths accoringly. Cost of this work shall be included in the order local control of the post of the start pay item for "Reinforcement Bars, Epoxy Coated".



| Poropel | | | | | |
|---------|----------------|----------|--------|-----------------|-------|
| REPAIRS | F.A.P. RTE, | SECTION | COUNTY | TOTAL SHEETS | SHEET |
| 0 0000 | 334 | (TH-8)8R | LAKE | 25 | 19 |

| 9-0023 | | 2.150 h | | 1 |
|----------------------------------------|-----------------|-----------|-------|-------|
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | CONTRACT | NO. 6 | 50W19 |
| SHEETS | ILLINOIS FED. A | D PROJECT | | |
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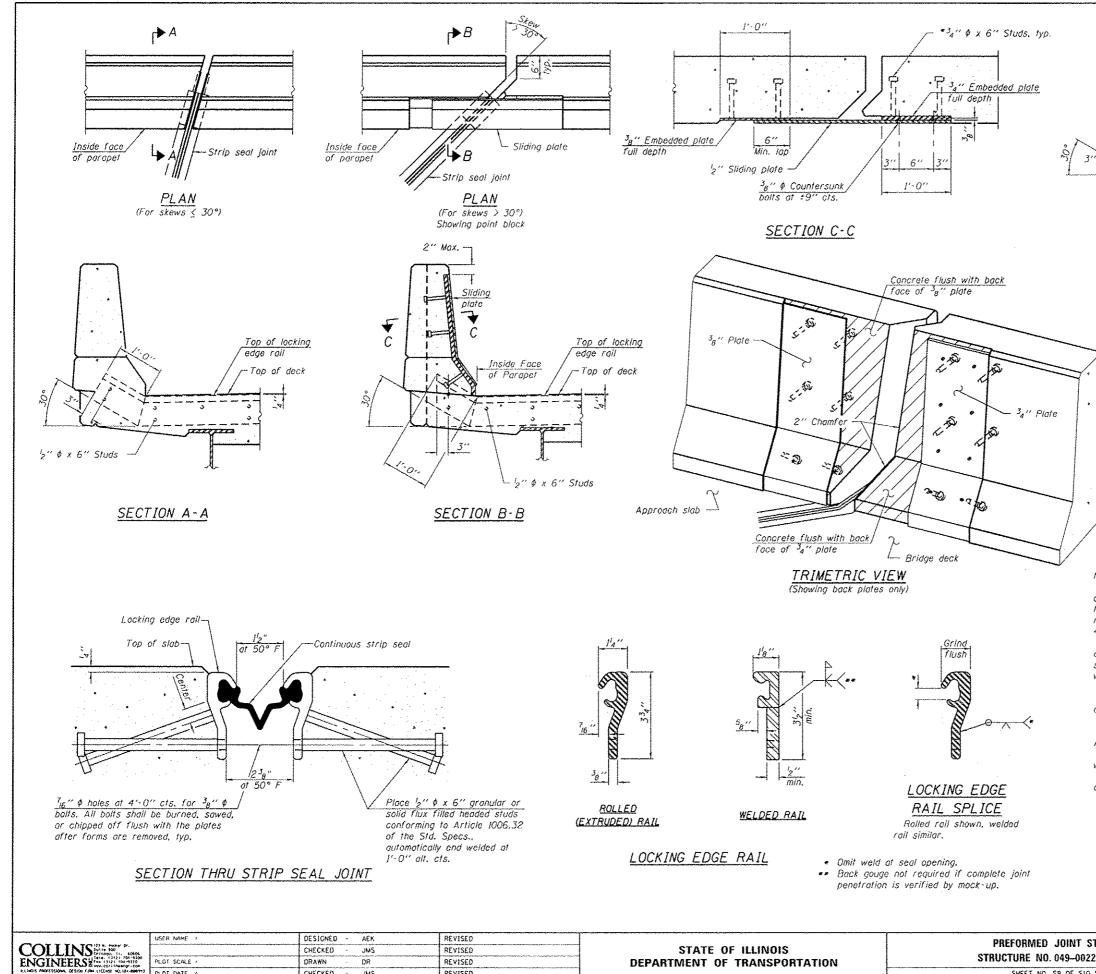
Notes:

- Existing reinforcement bars in the concrete removal area parallel to the expansion joints shall be removed.
- 2. Removal and disposal of the existing expansion joints will not be paid for separately, but shall be included with the cost of Concrete Removal.
- 3. Work this sheet with Sheets S5 & S9.



Indicates Concrete Removal

| DETAILS | F.A.P. RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------|---------------|-----------------|-----------|-----------------|--------------|
| 49-0023 | 334 | (TH-BIBR | LAKE | 25 | 20 |
| 45-0023 | 1 | | CONTRACT | NO. E | OW19 |
| SHEETS | 1 | ILLINGIS FED. A | D PROJECT | | |



SHEET NO. S9 OF SIO

REVISED

PLOT DATE +

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JMS

| TYPICAL END TREATMENT |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>AT SIDEWALK OR MEDIAN</u> Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation. |
| |

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of I_d ". The configuration of the strip seal shall match the configuration of The Locking Edge Rails. Open or "Welded" strip seal gland configurations are not permitted. The gland shall be sized for maximum rated movement of 4 inches.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

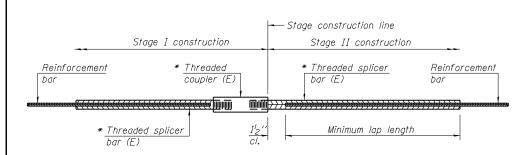
The manufacturer's recommended installation methods shall be followed. All steel components shall be galvanized ofter fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be $\frac{3}{16}$ ", sealed with a suitable sealant, joints in Rails within 10 Ft. of curbs shall be welded. Parapet plates and anchorage studs for skew $>30^\circ$ including int the cast of Preformed Strip Seal.

BILL OF MATERIAL

| Item | Oun | lotal |
|----------------------------|------|-------|
| Preformed Joint Strip Seal | Foot | 210.0 |

| & 049-0023 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------------------|----------------|-----------------|-----------|-----------------|--------------|
| 2 & 049-0823 | 334 | (TH-8)8R | LAKE | 25 | 21 |
| · · · · · · · · · · · · · · · · · · · | | | CONTRACT | NO. 6 | OW19 |
| SHEETS | | ILLINOIS FED. A | D PROJECT | | |



STANDARD BAR SPLICER ASSEMBLY

| | | Minim | num Lap Len | gths | | |
|---------------------------|---------|---------|-------------|---------|---------|---------|
| Bar size to be spliced | Table 1 | Table 2 | Table 3 | Table 4 | Table 5 | Table 6 |
| 3, 4 | 1'-5'' | 1'-11'' | 2'-1'' | 2'-4'' | 2'-7'' | 2'-11'' |
| 5 1'-9'' | | 2'-5'' | 2'-7'' | 2'-11'' | 3'-3'' | 3′-8″ |
| 6 2'-1'' | | 2'-11'' | 3′-1′′ | 3′-6″ | 3′-10′′ | 4'-5'' |
| 7 | 2'-9'' | 3′-10′′ | 4'-2'' | 4'-8'' | 5'-2'' | 5′-10′′ |
| 8 3'-8'' 5 | | 5′-1′′ | 5′-5′′ | 6'-2'' | 6′-9′′ | 7'-8'' |
| 9 | 4'-7'' | 6′-5′′ | 6′-10′′ | 7'-9'' | 8'-7'' | 9'-8'' |

Table 1: Black bar, 0.8 Class C

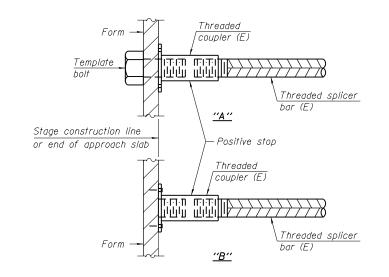
Table 2:Black bar, Top bar lap, 0.8 Class CTable 3:Epoxy bar, 0.8 Class CTable 4:Epoxy bar, Top bar lap, 0.8 Class CTable 5:Epoxy bar, Class C

Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1_{2}^{l} + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

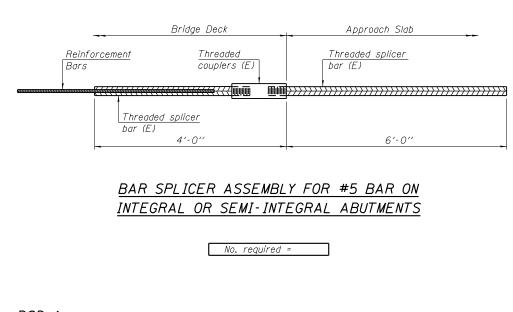
| Location | Bar size | No. assemblies required | Table for minimum lap length |
|----------|-------------|----------------------------|---------------------------------|
| | 3120 | 1 Equited | |
| 049-0022 | 5 | 4 | 3 |
| 049-0022 | 6 | 4 | 3 |
| 049-0023 | 5 | 4 | 3 |
| 049-0023 | 6 | 4 | 3 |
| | | | |

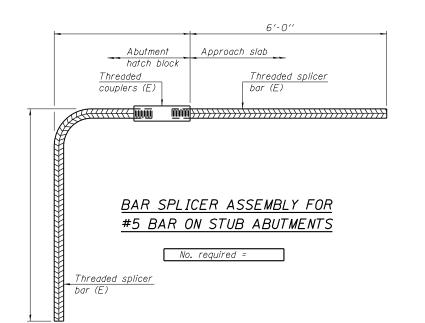


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.

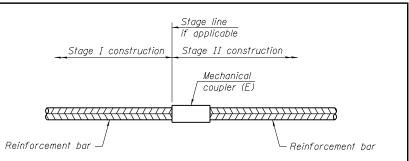




BSD-1

1-27-12

| COLLINS CHECKED - JMS REVISED STATE OF ILLINOIS ENGINEERS Mawn - DR REVISED BEPARTMENT OF TRANSPORTATION STRUCTURE NO. 049-0022 & 049-0023 334 (TH-BJBR LAKE 25 CONTRACT NO. 6600 DEPARTMENT OF TRANSPORTATION STRUCTURE NO. 049-0022 & 049-0023 334 (TH-BJBR LAKE 25 | | | USER NAME = | DESIGNED - AEK | REVISED | | BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS | F.A.P. RTE. | SECTION | COUNTY | TOTAL | SHEET |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------|-------------------|------------------------------|-----------------------------------------------------|----------------|---------|--------|---------|-------|
| | COLLINS 50176 900 Chicago, 11, 60606 Chicago, 11, 60606 | | CHECKED - JMS | REVISED | STATE OF ILLINOIS | | 334 | (TH-B)BR | LANE | | 22 | |
| Is units free source was and the source of t | ENG. | ENGINEERS2 Fox (312) 104-9300 ENGINEERS2 Fox (312) 104-9300 ILLINDIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-808993 | PLOT SCALE = | DRAWN - DR CHECKED - JMS | REVISED | DEPARTMENT OF TRANSPORTATION | SHEET NO. SIO OF SIO SHEETS | _ | | | I NO. F | OW19 |



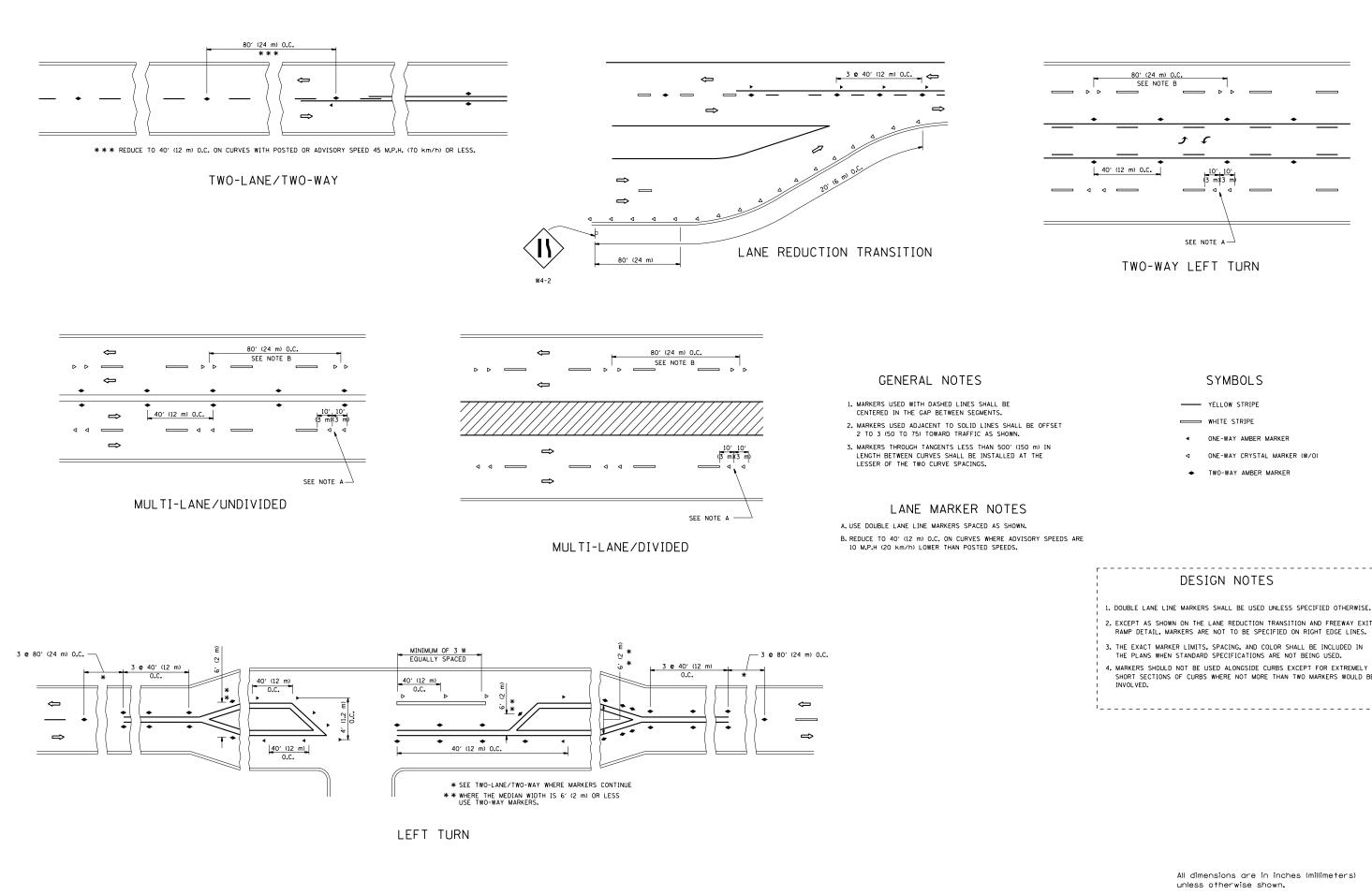
STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required |
|----------|-------------|----------------------------|
| | | |
| | | |
| | | |

<u>NOTES</u>

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

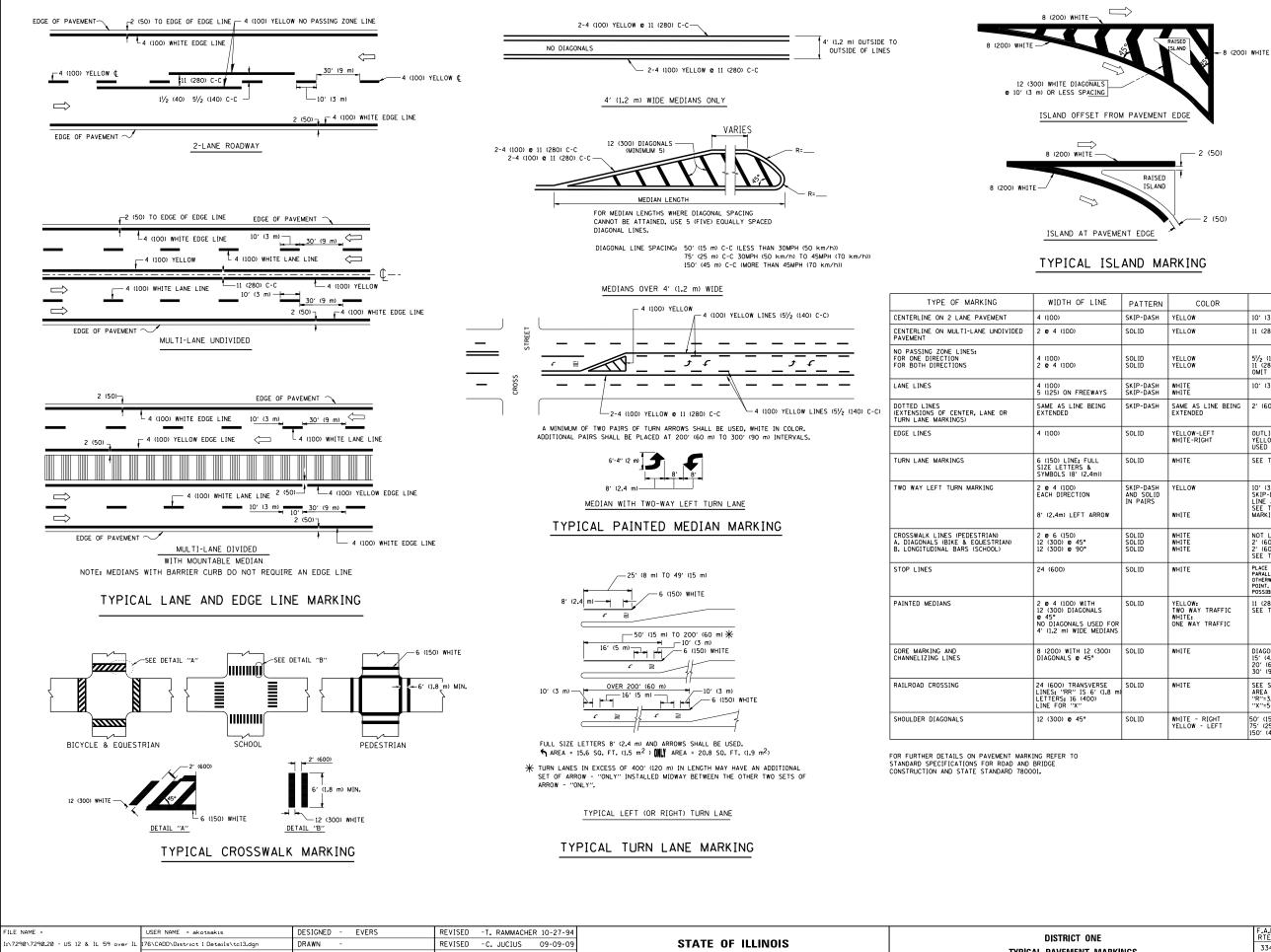
All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.



| FILE NAME = | USER NAME = akotsakıs | DESIGNED - | REVISED - T. RAMMACHER 09-19-94 | | | TYPICA | L APPLIC | <u>лт</u> |
|-----------------------------------------|--------------------------------------|------------|---------------------------------|------------------------------|-------------|--------------------|----------|-----------|
| 1:\7290\7290.20 - US 12 & IL 59 over IL | 176\CADD\District 1 Details\tcll.dgn | DRAWN - | REVISED -T. RAMMACHER 03-12-99 | STATE OF ILLINOIS | | | | |
| | PLOT SCALE = 100.000 '/ in. | CHECKED - | REVISED -T. RAMMACHER 01-06-00 | DEPARTMENT OF TRANSPORTATION | RAISED R | REFLECTIVE PAVEMEN | t markei | łS |
| | PLOT DATE = 4/8/2013 | DATE - | REVISED - C. JUCIUS 09-09-09 | | SCALE: NONE | SHEET NO. 1 OF 1 | SHEETS | |

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE. 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

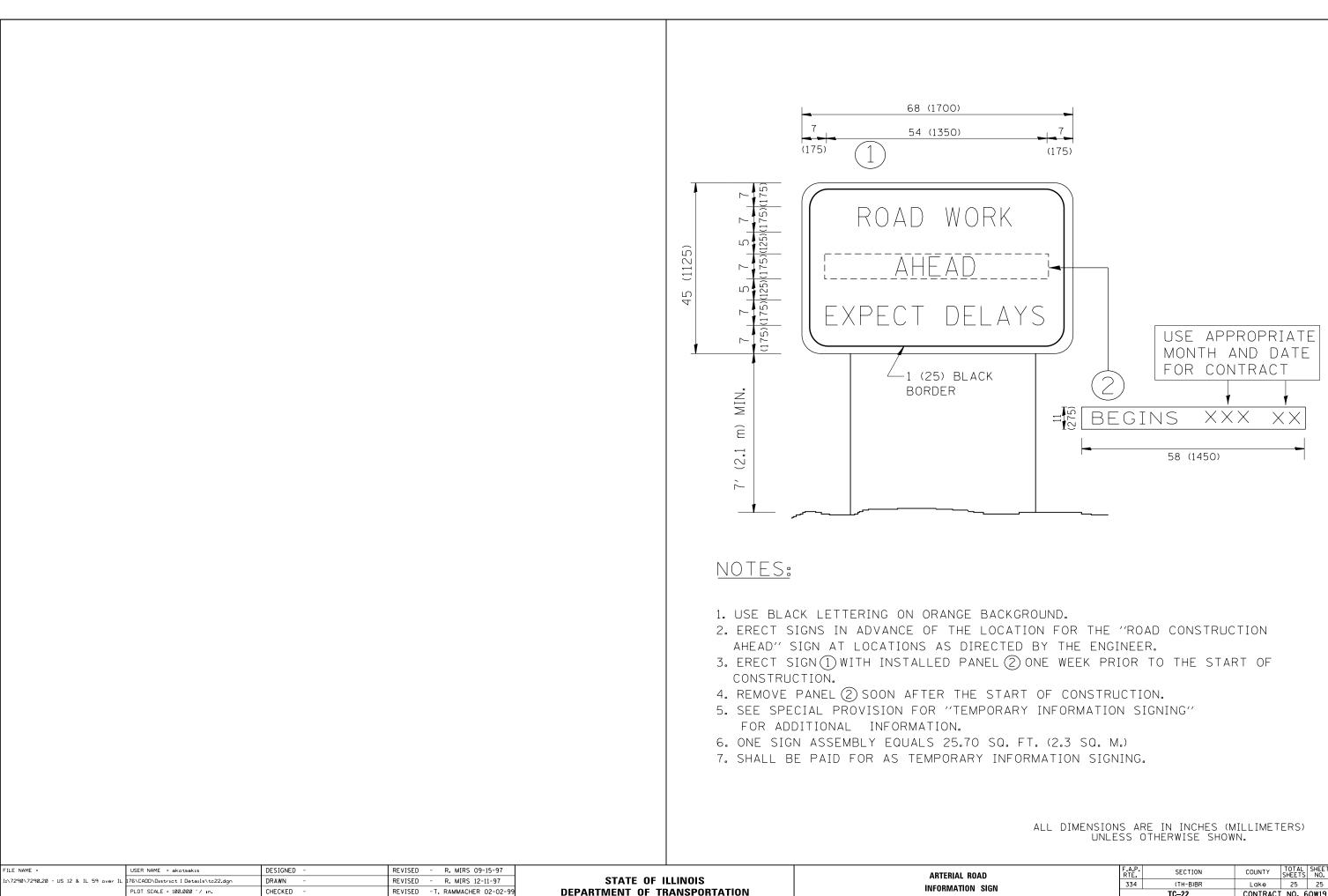
| APPLICATIONS | | | | SECT | ION | | COUNTY | TOTAL SHEETS | |
|-------------------------------|--|------------|--------|----------------|-------------|--------|----------|-----------------|-------|
| MARKERS (SNOW-PLOW | | RESISTANT) | 334 | (TH- | B)BR | | Lake | 25 | 23 |
| WARKERS (SNUW-PLUW RESISTANT) | | | | TC11 | | | CONTRACT | NO. 6 | 50W19 |
| SHEETS STA. | | TO STA. | FED. R | AD DIST. NO. 1 | ILLINOIS FE | D. AID | PROJECT | | |
| | | | | | | | | | |



| ME = | USER NAME = akotsakis | DESIGNED - EVERS | REVISED -T. RAMMACHER 10-27-94 | | | DISTRICT ONE | F.A. RTE | .P. SECTION | COUNTY TOTAL SHEET SHEETS NO. |
|---------------------------------|--------------------------------------|------------------|--------------------------------|------------------------------|---------------------------|--------------------------------|-------------|-------------------------------------|----------------------------------|
| 7290.20 - US 12 & IL 59 over IL | 176\CADD\District 1 Details\tcl3.dgn | DRAWN - | REVISED -C. JUCIUS 09-09-09 | STATE OF ILLINOIS | TYPICAL PAVEMENT MARKINGS | | 33 | 4 (TH-B)BR | Lake 25 24 |
| | PLOT SCALE = 100.000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | TC-13 | CONTRACT NO. 60W19 |
| | PLOT DATE = 4/8/2013 | DATE - 03-19-90 | REVISED - | | SCALE: NONE SHEET N | NO. 1 OF 1 SHEETS STA. TO STA. | FED | . ROAD DIST. NO. 1 ILLINOIS FED. / | AID PROJECT |

| LINE | PATTERN | COLOR | SPACING / REMARKS |
|-----------------------------------|------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| | SOLID | YELLOW | 11 (280) C-C |
| | SOLID SOLID | YELLOW YELLOW | 5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| EWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| BEING | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| ULL & .4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| N ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| | SOL ID SOL ID SOL ID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| | SOLID | WHITE | PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSMAN, IF PRESENT. OTHERWISE, PLACE AT DESINED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| TH NALS USED FOR MEDIANS | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| 2 (300) 5° | SOLID | WHITE | DIAGONALS: 15'(4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20'(6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30'(9 m) C-C (0VER 45MPH (70 km/h)) |
| VERSE 6' (1.8 m) 00) | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "X"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²) |
| | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h)) |

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



PLOT DATE = 4/8/2013

DATE

REVISED - C. JUCIUS 01-31-07

| 20 | AD | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------|------|---------|----------------|----------------------------------|-----------|-----------------|--------------|
| N SIGN | | | 334 | (TH-B)BR | Lake | 25 | 25 |
| | | | | TC-22 | CONTRACT | NO. 6 | OW19 |
| | STA. | TO STA. | FED. RO | DAD DIST. NO. 1 ILLINOIS FED. AI | D PROJECT | | |