

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

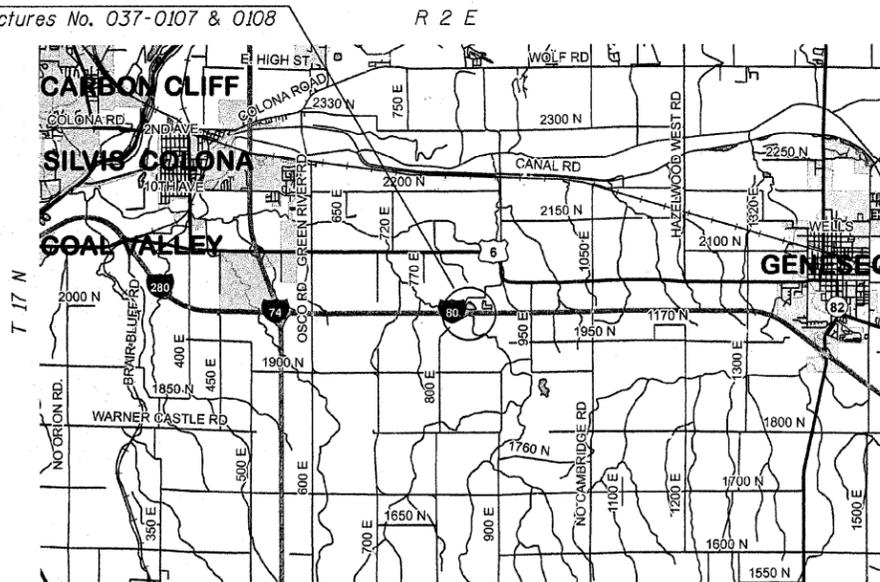
**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 80 (I-80)
SECTION (37-2B-2)M

BRIDGE REPAIRS
HENRY COUNTY

C-92-149-10

Project Location
Structures No. 037-0107 & 0108



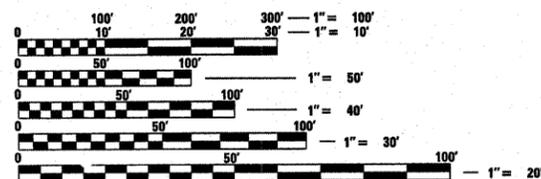
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|------------|----------|--------------------|-----------|
| 80 | (37-2B-2)M | Henry | 11 | 1 |
| | | ILLINOIS | CONTRACT NO. 64G23 | |

D-92-082-10



LOCATION OF SECTION INDICATED THUS: - ■ -

FOR INDEX OF SHEETS, SEE SHEET NO. 3



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

PLAN TECHNICIAN-DAN LINK 815/284-5416
DISTRICT BRIDGE ENGINEER-MAHMOUD ETEMADI 815/284-5393

CONTRACT NO. 64G23

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 25 2010
George F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 2010
Scott E. Stitt P.E. /ec
ENGINEER OF DESIGN AND ENVIRONMENT

May 7 2010
Christine M. Reed /ec
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

100% State
SFTY-2A

| PAY ITEM # | DESCRIPTION | UNIT | QUANTITY |
|------------|---|-------|----------|
| 42001300 | PROTECTIVE COAT | SQ YD | 30 |
| 50102400 | CONCRETE REMOVAL | CU YD | 11 |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 11 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 2,040 |
| 50800515 | BAR SPLICERS | EACH | 32 |
| 52000110 | PREFORMED JOINT STRIP SEAL | FOOT | 165 |
| 67100100 | MOBILIZATION | L SUM | 1 |
| 70100207 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 | EACH | 1 |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 14800 |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 4940 |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 700 |
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 700 |
| * 78001130 | PAINT PAVEMENT MARKING - LINE 6" | FOOT | 2500 |
| 78300100 | PAVEMENT MARKING REMOVAL | SQ FT | 400 |
| Z0030250 | IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 | EACH | 2 |
| Z0030350 | IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 | EACH | 2 |

* SPECIALTY ITEM

| | | | | | | | | | | | |
|--|--------------------------------------|----------------|---------------|---|------------------------------|--------------------|---------------------------------|--------------------------|---------------------------|-----------|--|
| FILE NAME = D:\BR\CADD plans\Henry County\037-0107 | USER NAME = linkdj | DESIGNED - --- | REVISED - --- | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | Summary of Quantities | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | 0108\PLA\eng.dgn | DRAWN - --- | REVISED - --- | | | 80 | (37-2B-2)M | Henry | 11 | 2 | |
| | PLOT SCALE = 50,0000' / IN. | CHECKED - --- | REVISED - --- | | | CONTRACT NO. 64G23 | | | | | |
| | PLOT DATE = Thu Mar 25 06:59:35 2010 | DATE - --- | REVISED - --- | | | SCALE: _____ | SHEET NO. _____ OF _____ SHEETS | STA. _____ TO STA. _____ | ILLINOIS FED. AID PROJECT | | |

GENERAL NOTES

The final top four inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per Cubic Yard for Concrete Superstructure.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of Concrete Superstructure.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the Concrete Superstructure.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per ton for Polymerized Hot-Mix Asphalt Surface Course, Mix "E", N90.

At bridge expansion joints, if temporary expansion joint bulkheads are attached to adjacent deck slabs or abutments for support, the Contractor shall cut the attachments as soon as the concrete has set to prevent joint damage due to horizontal contraction or expansion.

INDEX OF SHEETS

1. Cover Sheet
2. Summary of Quantities
3. General Notes, Index of Sheets, Standards
4. Traffic Control Plan Stage I
5. Traffic Control Plan Stage II
6. General Plan & Elevation
7. Repair Details
8. Preformed Joint Strip Seal
9. Temporary Concrete Barrier
10. Bar Splicer Assembly Details
11. District Standard 39.2 Informational Warning Signs

STANDARDS

- 701101-02 Off-Road Operations, Multilane, 4.5 m (15') to 600 mm (24") From Pavement Edge
- 701400-04 Approach to Lane Closure, Freeway/Expressway
- 701402-07 Lane Closure, Freeway/Expressway, with Barrier
- 701426-03 Lane Closure, Multilane, Intermittent or Moving Operation, for Speeds > 45 MPH
- 701901-01 Traffic Control Devices
- 704001-06 Temporary Concrete Barrier
- 720001-01 Sign Panel Mounting Details
- 720006-02 Sign Panel Erection Details
- 720011-01 Metal Posts for Signs, Markers and Delineators
- 728001-01 Telescoping Steel Sign Support
- 729001-01 Applications of Types A and B Metal Posts (For Signs & Markers)

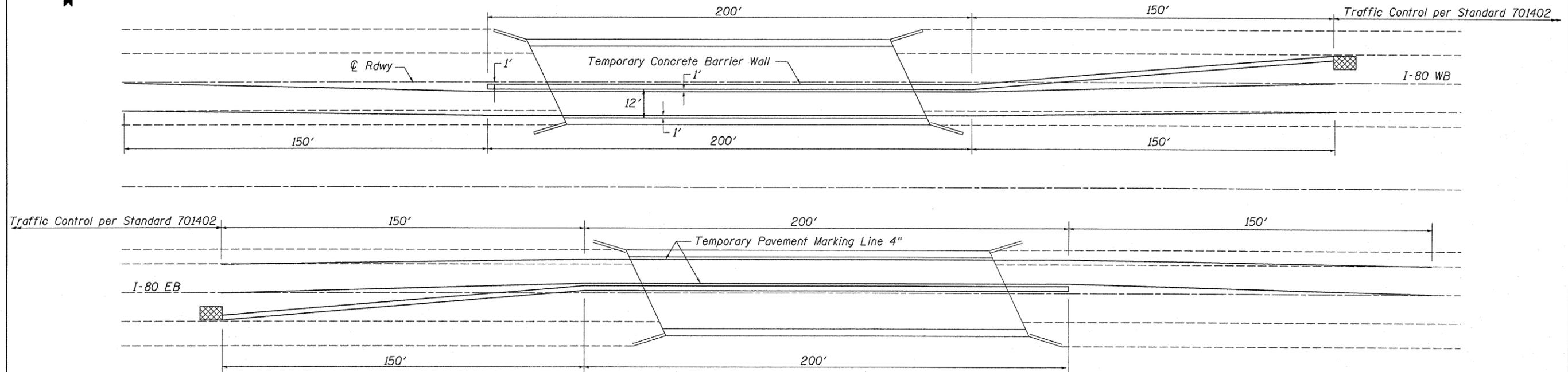
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| 0:\BR\CADD plans\Henry County\037-0107 | 0108\PLANeng.dgn | DRAWN - | REVIS | | | 80 | (37-2B-2M) | Henry | 11 | 3 | |
| | PLOT SCALE = 50.0000' / IN. | CHECKED - | REVIS | | | CONTRACT NO. 64023 | | | | | |
| | PLOT DATE = Thu Mar 25 06:59:44 2010 | DATE - | REVIS | | | ILLINOIS FED. AID PROJECT | | | | | |
| | | | | SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____ | | | | | | | |



TRAFFIC CONTROL PLAN

STAGE I

Refer to Standard 701402 for additional signs, details & devices



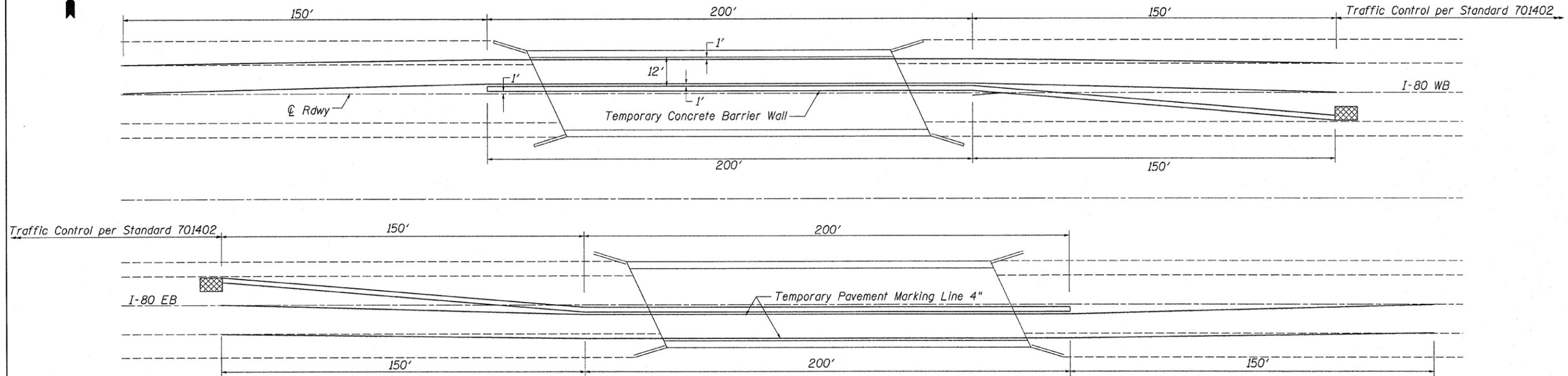
| | | |
|--------------------------------------|---|---------------------------------|
| | <u>Temporary Pavement Marking Line 4"</u> | <u>Pavement Marking Removal</u> |
| | Foot | Sq Ft |
| <u>Temporary Concrete Barrier</u> | Stage I | Stage I Edgeline |
| Stage I Eastbound | Westbound (701402) | Stage II Edgeline |
| Stage I Westbound | Shift | |
| Total | Total | |
| | Stage II | |
| <u>Impact Attenuators, Temporary</u> | Eastbound (701402) | |
| Stage I Eastbound | Shift | |
| Stage I Westbound | Total | |
| | Total | |

| | | | | | | | | | | | | |
|---------------------------------------|--------------------------------------|------------|-----------|---|---|------------|-------|--------------------|---------|--------|-----------------|--------------|
| FILE NAME = | USER NAME = linkdj | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | Traffic Control Plan Stage I | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| G:\BR\CAD\plans\Henry County\037-0107 | 0108\PLANeng.dgn | DRAWN - | REVISED - | | 80 | (37-28-2)M | Henry | 11 | 4 | | | |
| | PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED - | | SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____ | | | CONTRACT NO. 64G23 | | | | |
| | PLOT DATE = Thu Mar 25 06:59:55 2010 | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | |

TRAFFIC CONTROL PLAN

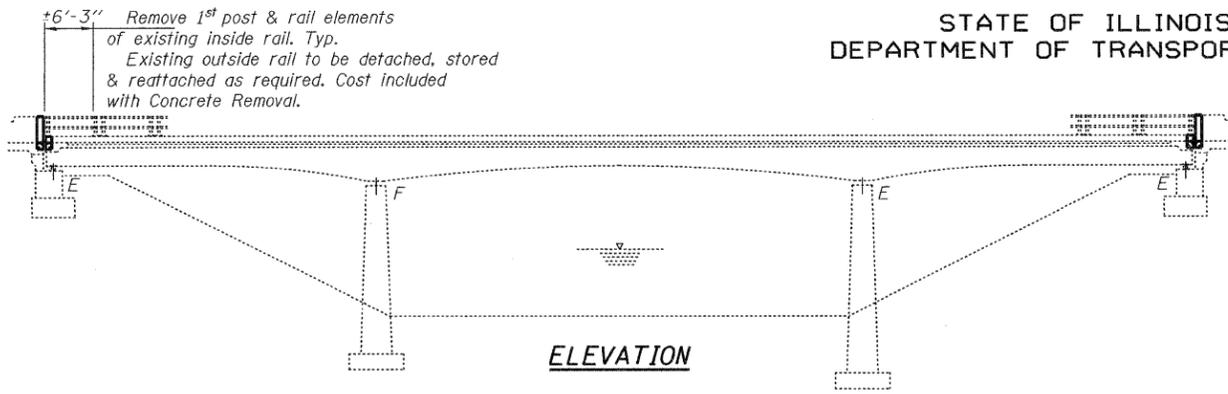
STAGE II

Refer to Standard 701402 for additional signs, details & devices

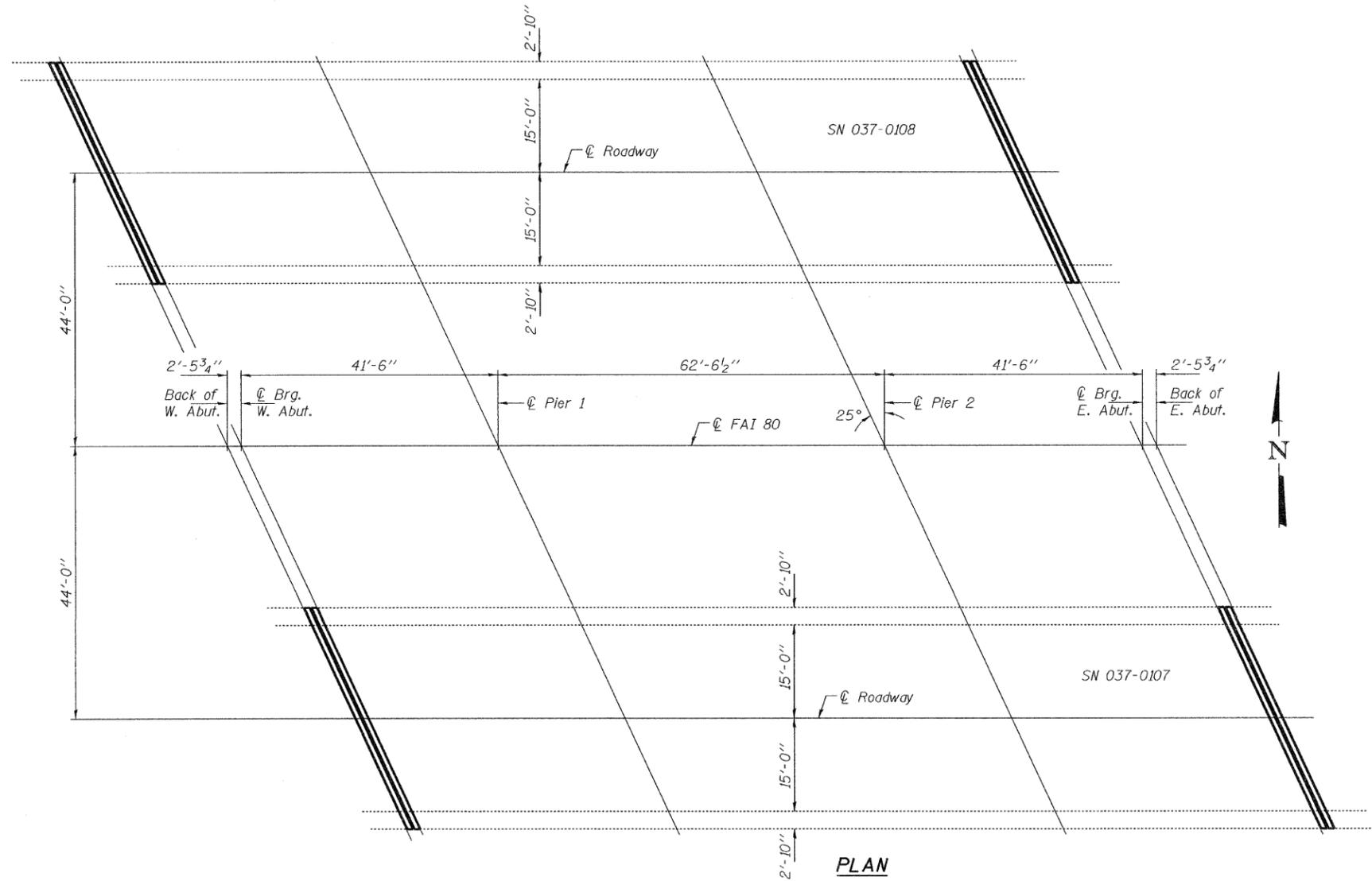


| <u>Relocate Temporary Concrete Barrier</u> | Feet | <u>Temporary Pavement Marking Line 4"</u> | Foot | <u>Workzone Pavement Marking Removal</u> | Sq Ft |
|--|-----------------|---|------------------|--|---------------------------------------|
| Stage II Eastbound | 350 | Stage I | | Stage I | 2470 |
| Stage II Westbound | 350 | Westbound (701402) | 2700 | Stage II | 2470 |
| <u>Total</u> | <u>700 Feet</u> | Shift | 150 | <u>Total</u> | <u>4940 Sq Ft</u> |
| | | | 200 | | |
| | | | 150 | | |
| | | | 150 | | |
| | | | 200 | | |
| | | | 150 | | |
| | | Stage II | 150 | | |
| | | Eastbound (701402) | 2700 | | |
| | | Shift | 150 | | |
| | | | 200 | | |
| | | | 150 | | |
| | | | 150 | | |
| | | | 200 | | |
| | | | 150 | | |
| | | <u>Total</u> | <u>7400 Foot</u> | | |
| | | | | <u>Paint Pavement Marking - Line 6"</u> | |
| | | | | Post Project | Feet |
| | | | | Eastbound | 1250 |
| | | | | Westbound | 1250 |
| | | | | <u>Total</u> | <u>2500 Feet (Estimated quantity)</u> |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION



PLAN

GENERAL NOTES

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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 actually furnished at the unit price bid for the work.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

The Contractor shall use extreme care during concrete removal so as not to damage the concrete beams.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|----------------------------------|---------|----------|
| Concrete Removal | Cu. Yd. | 11.0 |
| Concrete Superstructure | Cu. Yd. | 11.0 |
| Preformed Joint Strip Seal | Foot | 165 |
| Reinforcement Bars, Epoxy Coated | Pound | 2040 |
| Bar Splicers | Each | 32 |
| * Protective Coat | Sq. Yd. | 30 |

* On new concrete only

**PLAN AND ELEVATION
FAI 80 OVER MINERAL CREEK,
SN 037-0107 (EB) & 0108 (WB)**

| | |
|----------|--------------------------|
| DESIGNED | <i>Jim J. Pohl</i> |
| CHECKED | <i>Alvin T. Holloway</i> |
| DRAWN | <i>baliva</i> |
| CHECKED | <i>IJL ATH</i> |

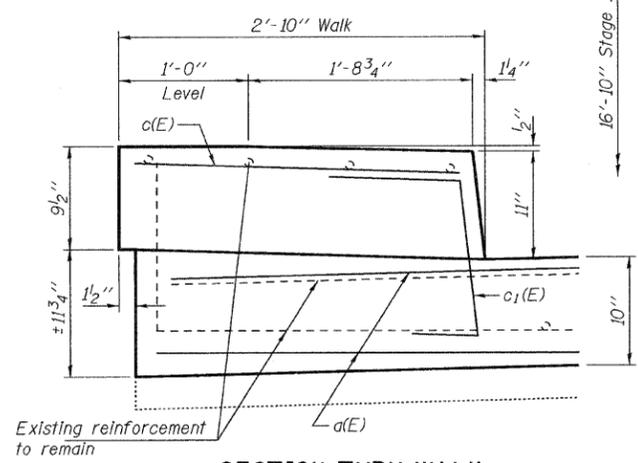
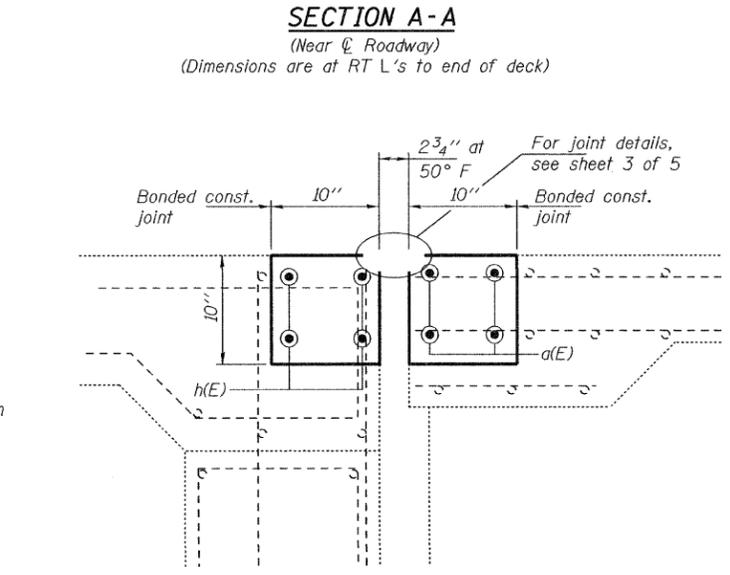
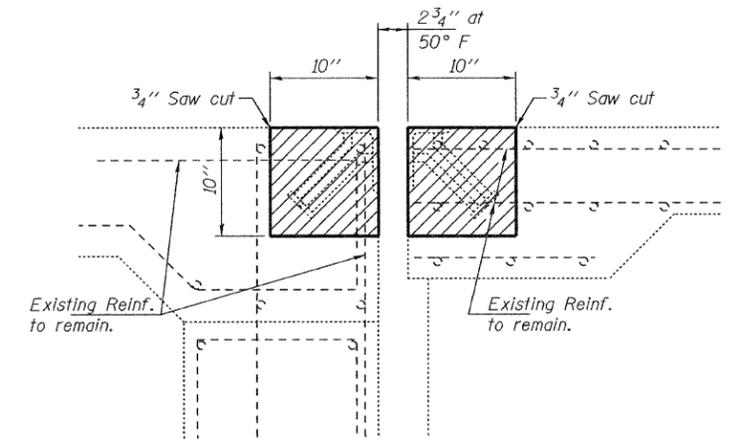
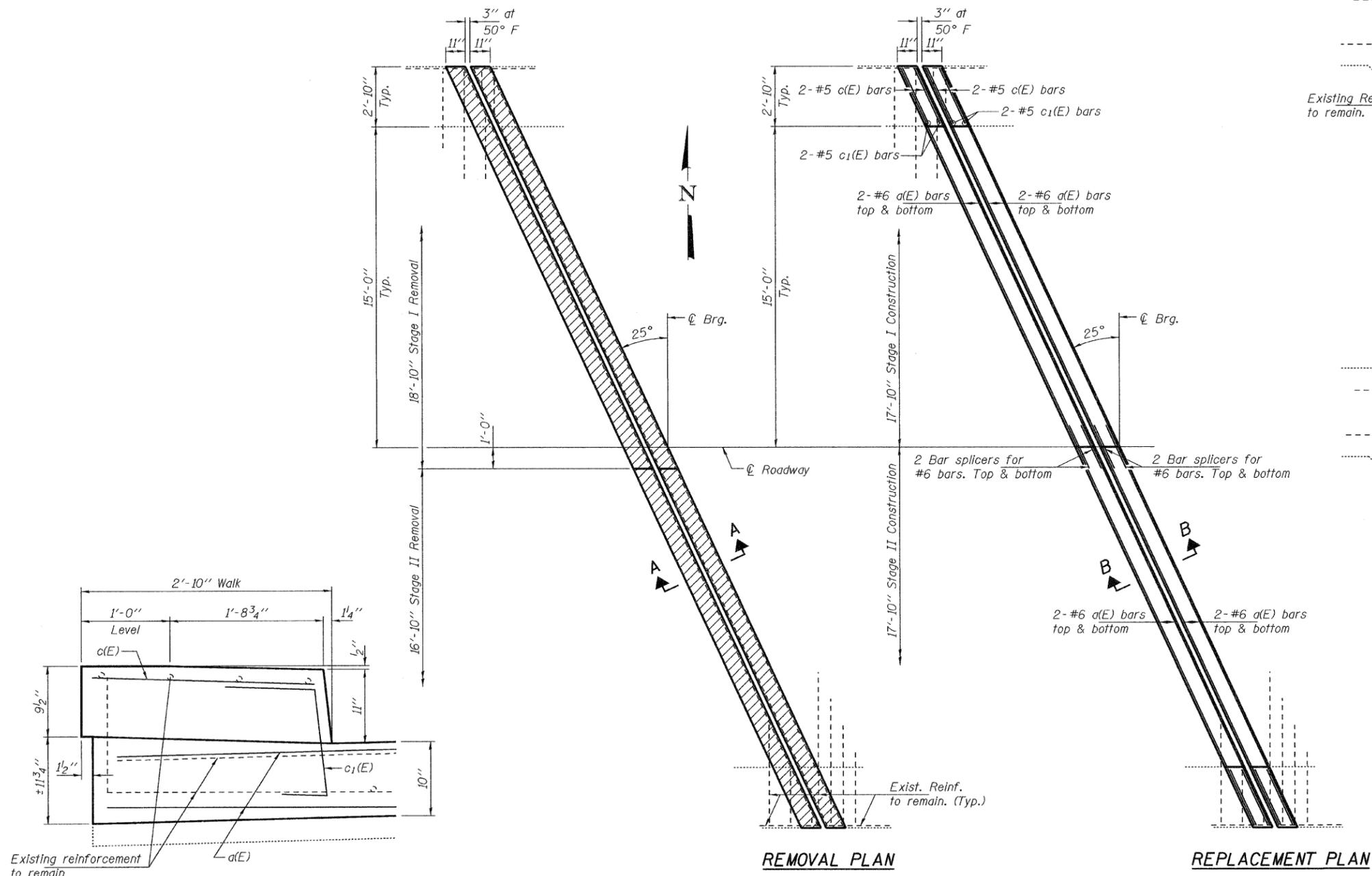
| |
|-----------------------------|
| APRIL 27, 2010 |
| EXAMINED <i>[Signature]</i> |
| PASSED <i>[Signature]</i> |



EXPIRES 11-30-2010

| | | | | | |
|---------------------------|-------------|------------|--------------------|--------------|-----------|
| SHEET NO. 1 5 SHEETS | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 80 | (37-2B-2)M | HENRY | 11 | 6 |
| | | | CONTRACT NO. 64G23 | | |
| ILLINOIS FED. AID PROJECT | | | | | |

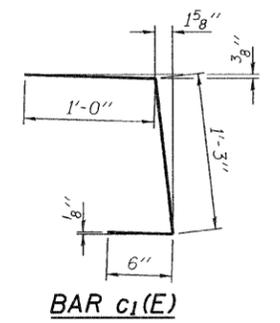
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION THRU WALK
Place reinforcement along skew

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|-------|
| a(E) | 64 | #6 | 19'-4" | — |
| c(E) | 32 | #5 | 2'-8" | — |
| c1(E) | 32 | #5 | 2'-9" | ⌋ |
| Concrete Removal | | | Cu. Yd. | 11.0 |
| Concrete Superstructure | | | Cu. Yd. | 11.0 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 2040 |



REPAIR DETAILS
FAI 80 OVER MINERAL CREEK,
SN 037-0107 (EB) & 0108 (WB)

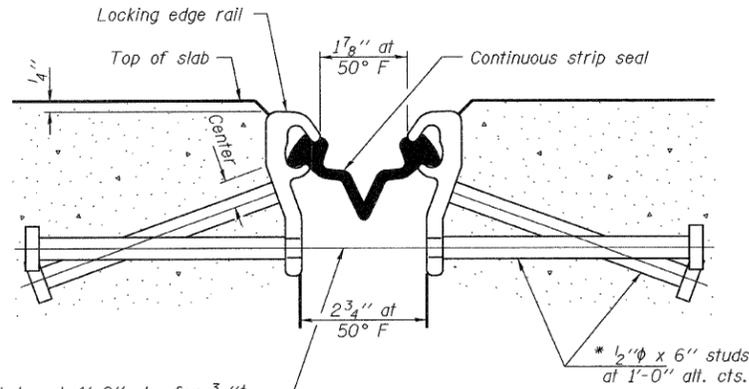
| | | |
|----------|---------|---|
| DESIGNED | IJL | APRIL 27, 2010 |
| CHECKED | ATH | EXAMINED <i>Carl Boyer</i> ENGINEER OF STRUCTURAL SERVICES |
| DRAWN | baliva | PASSED <i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES |
| CHECKED | IJL ATH | |

Notes:
West abutment shown.
East abutment similar by rotation.
Hatched areas indicate removal.

| | | | | | |
|---------------------------|----------------|--------------------|--------------------|-----------------|-------------|
| SHEET NO. 2 | F.A.I. RTE. 80 | SECTION (37-2B-2)M | COUNTY HENRY | TOTAL SHEETS 11 | SHEET NO. 7 |
| 5 SHEETS | | | CONTRACT NO. 64G23 | | |
| ILLINOIS FED. AID PROJECT | | | | | |

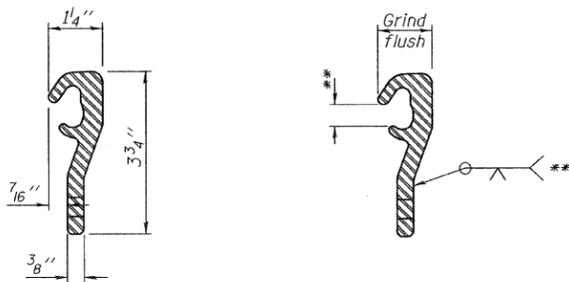
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



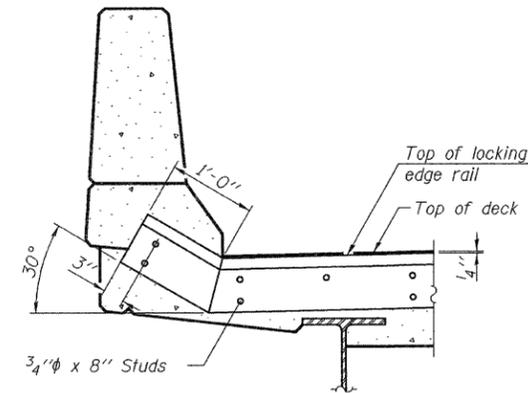
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU STRIP SEAL JOINT



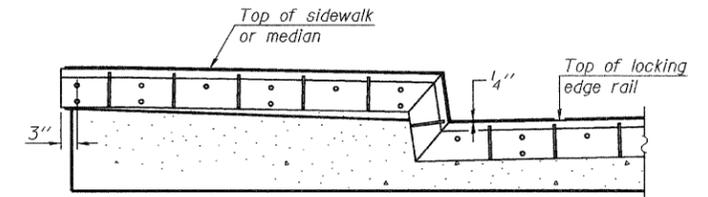
LOCKING EDGE RAIL LOCKING EDGE RAIL SPLICE

** Omit weld at seal opening.



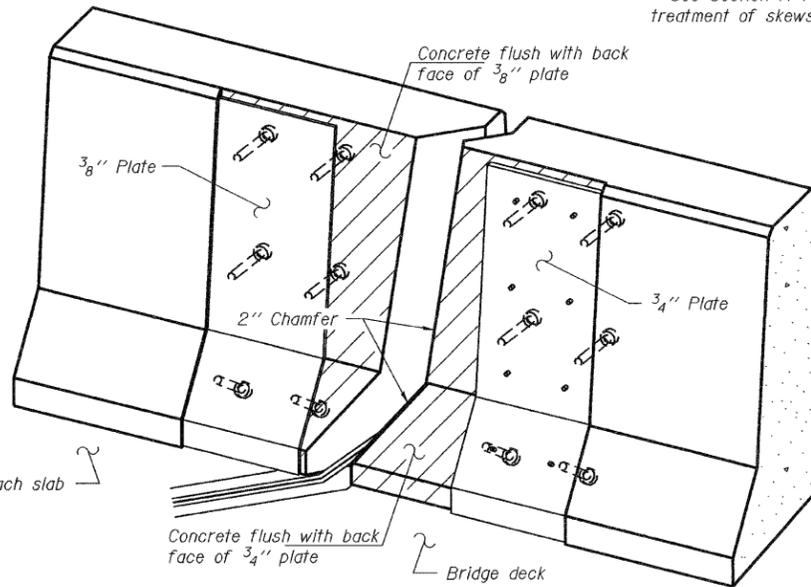
AT PARAPET

See Section A-A for end treatment of skews > 30°.



TYPICAL END TREATMENT AT WALK

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.



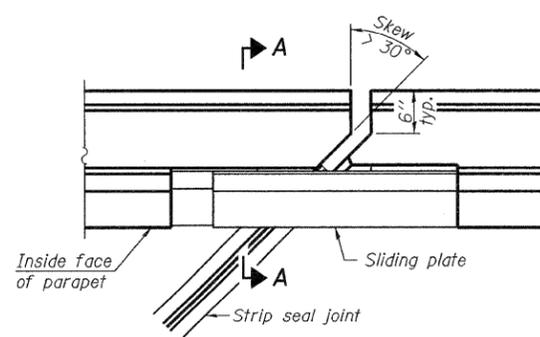
TYPICAL END TREATMENTS

Notes:

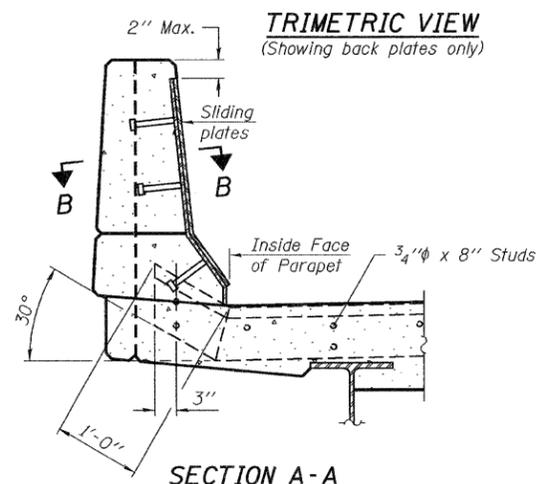
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches. The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. 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. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

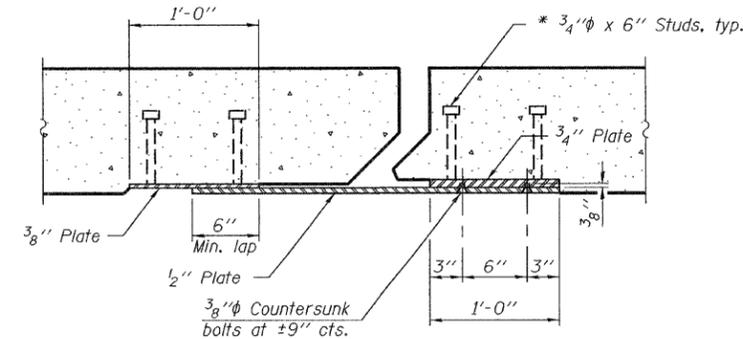


PLAN



SECTION A-A

POINT BLOCK DETAILS
(for skews > 30°)



SECTION B-B

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------------|------|-------|
| Preformed Joint Strip Seal | Foot | 165 |

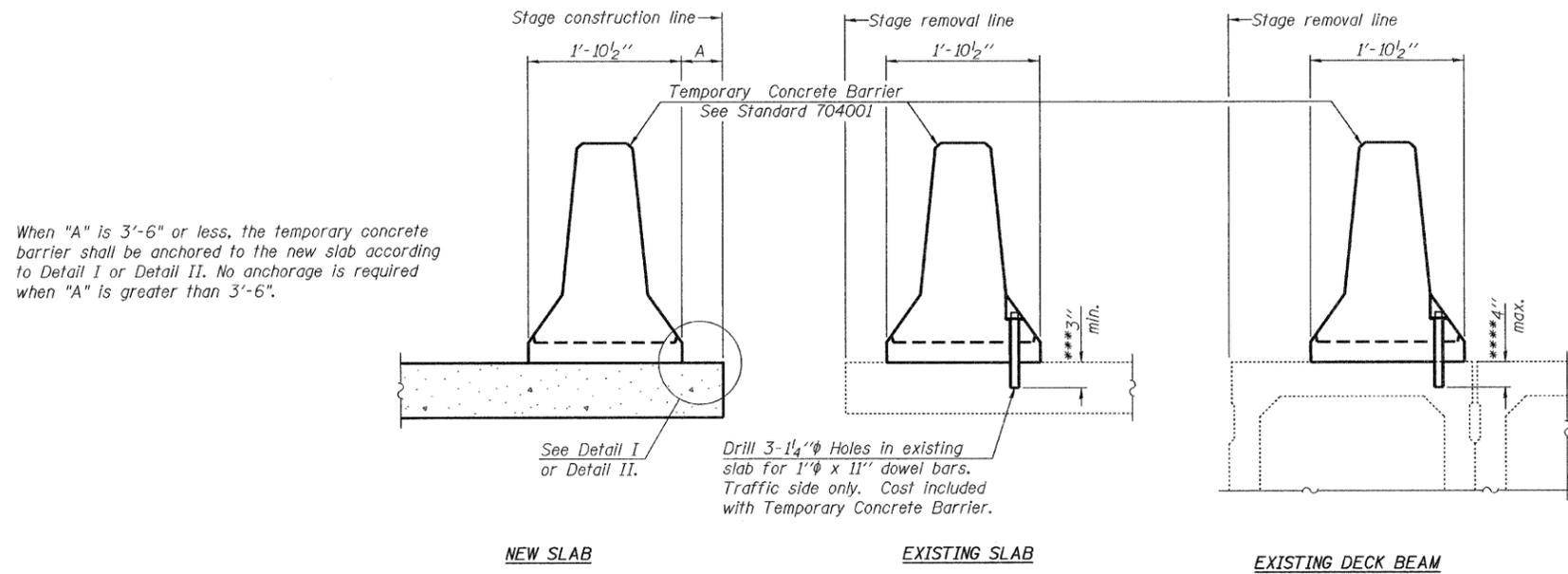
PREFORMED JOINT STRIP SEAL
FAI 80 OVER MINERAL CREEK.
SN 037-0107 (EB) & 0108 (WB)

| | |
|----------|---------|
| DESIGNED | IJL |
| CHECKED | ATH |
| DRAWN | balva |
| CHECKED | IJL ATH |

APRIL 27, 2010
EXAMINED *Carl Perry*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

| | | | | | |
|---------------------------|-------------|------------|--------------------|--------------|-----------|
| SHEET NO. 3 | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 5 SHEETS | 80 | (37-2B-2)M | HENRY | 11 | 8 |
| | | | CONTRACT NO. 64G23 | | |
| ILLINOIS FED. AID PROJECT | | | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel PL to the top layer of couplers with 2-5/8"φ bolts screwed to coupler at approximate C of each barrier panel.

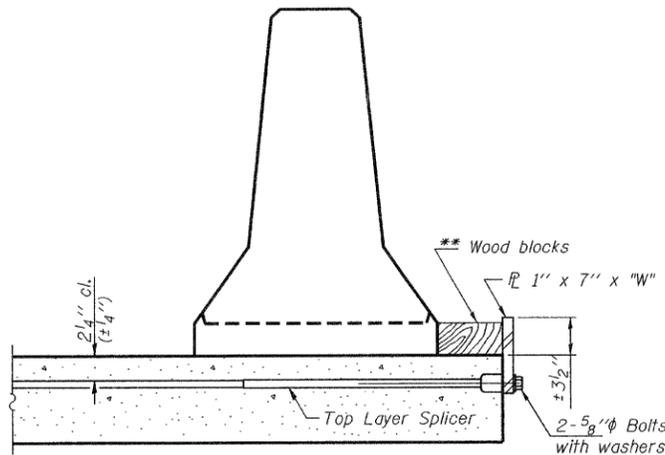
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel PL to the concrete slab or concrete wearing surface with 2-5/8"φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

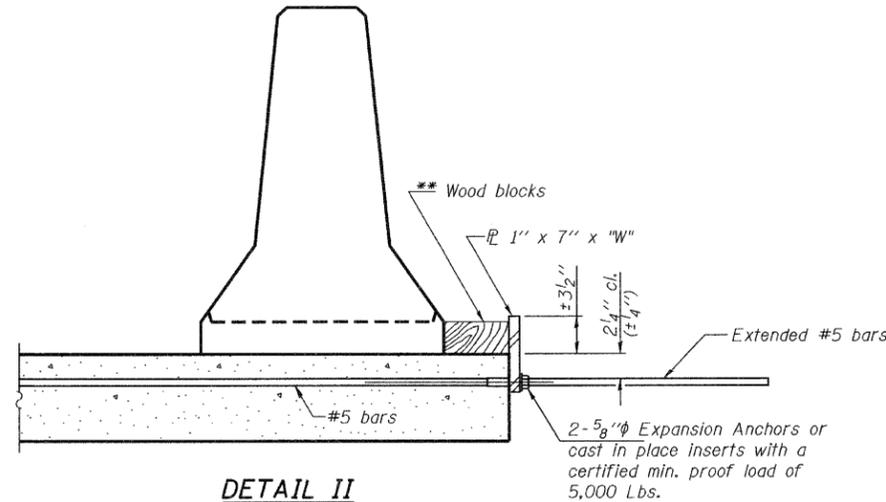
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



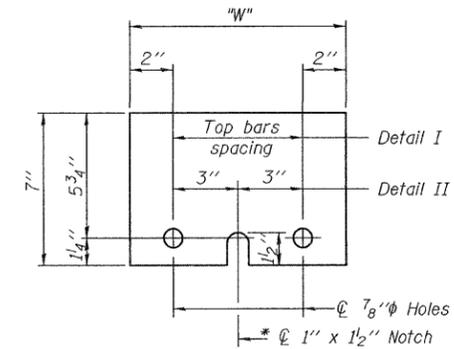
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



STEEL RETAINER PL 1" x 7" x 10"

* Required only with Detail II

| | |
|----------|----------|
| DESIGNED | I.JL |
| CHECKED | ATH |
| DRAWN | baliva |
| CHECKED | I.JL ATH |

APRIL 27, 2010
EXAMINED *A. Carl Pomeroy*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

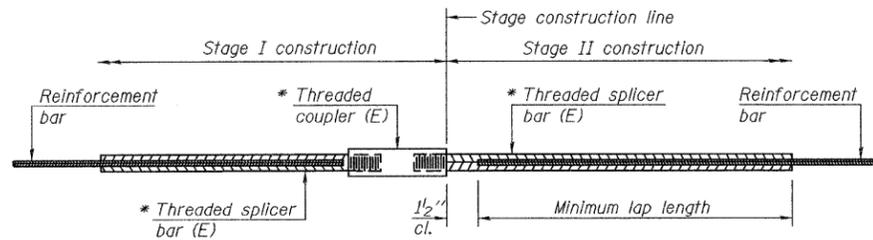
R-27

11-1-09

TEMPORARY CONCRETE BARRIER
FAI 80 OVER MINERAL CREEK,
SN 037-0107 (EB) & 0108 (WB)

| | | | | | |
|---------------------------|-------------|------------|--------------------|--------------|-----------|
| SHEET NO. 4 | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 5 SHEETS | 80 | (37-2B-2)M | HENRY | 11 | 9 |
| | | | CONTRACT NO. 64G23 | | |
| ILLINOIS FED. AID PROJECT | | | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

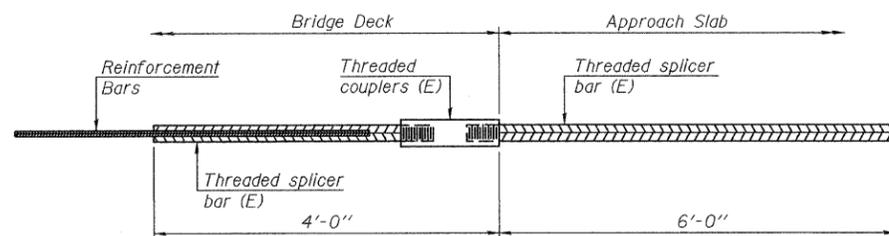
| Minimum Lap Lengths | | | | |
|------------------------|---------|---------|---------|---------|
| Bar size to be spliced | Table 1 | Table 2 | Table 3 | Table 4 |
| 3, 4 | 1'-5" | 1'-11" | 2'-1" | 2'-4" |
| 5 | 1'-9" | 2'-5" | 2'-7" | 2'-11" |
| 6 | 2'-1" | 2'-11" | 3'-1" | 3'-6" |
| 7 | 2'-9" | 3'-10" | 4'-2" | 4'-8" |
| 8 | 3'-8" | 5'-1" | 5'-5" | 6'-2" |
| 9 | 4'-7" | 6'-5" | 6'-10" | 7'-9" |

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

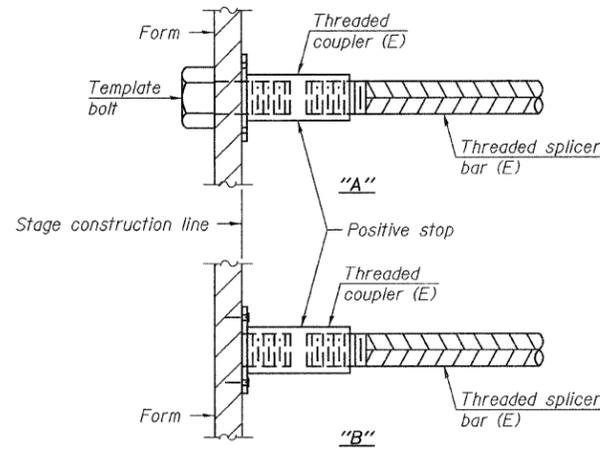
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Table for minimum lap length |
|--------------------|----------|-------------------------|------------------------------|
| W. Abutment (0107) | #6 | 8 | 3 |
| E. Abutment (0107) | #6 | 8 | 3 |
| W. Abutment (0108) | #6 | 8 | 3 |
| E. Abutment (0108) | #6 | 8 | 3 |
| | | | |
| | | | |



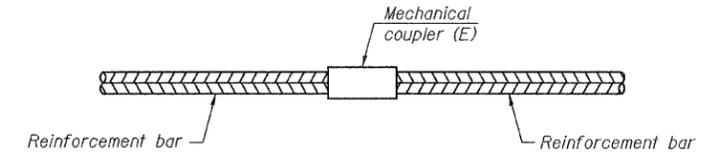
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



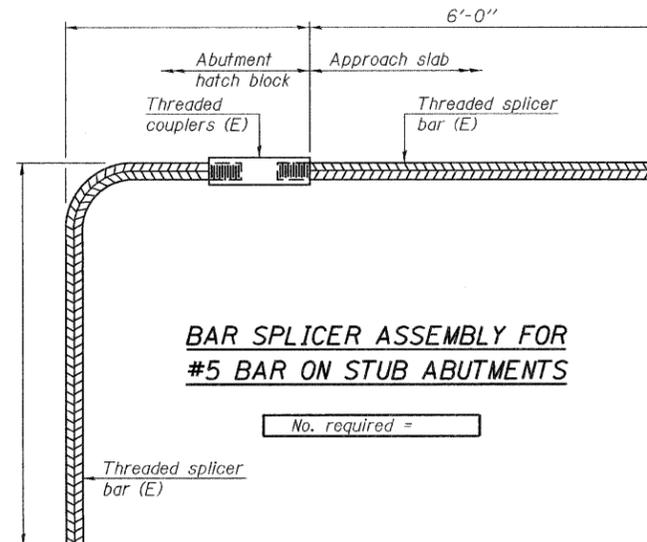
INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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 special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
FAI 80 OVER MINERAL CREEK,
SN 037-0107 (EB) & 0108 (WB)**

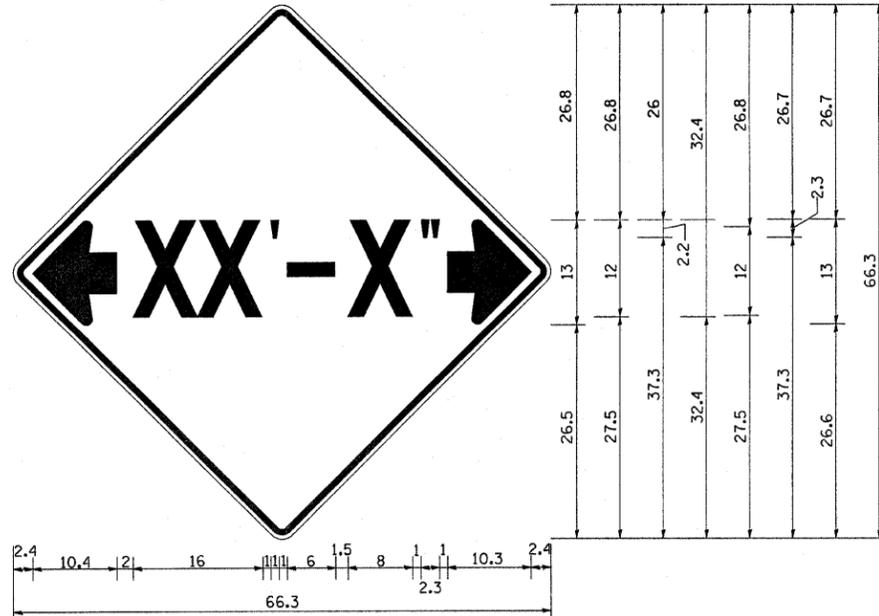
| | |
|----------|---------|
| DESIGNED | IJL |
| CHECKED | ATH |
| DRAWN | balva |
| CHECKED | IJL ATH |

APRIL 27, 2010
EXAMINED *A. Carl Honey*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

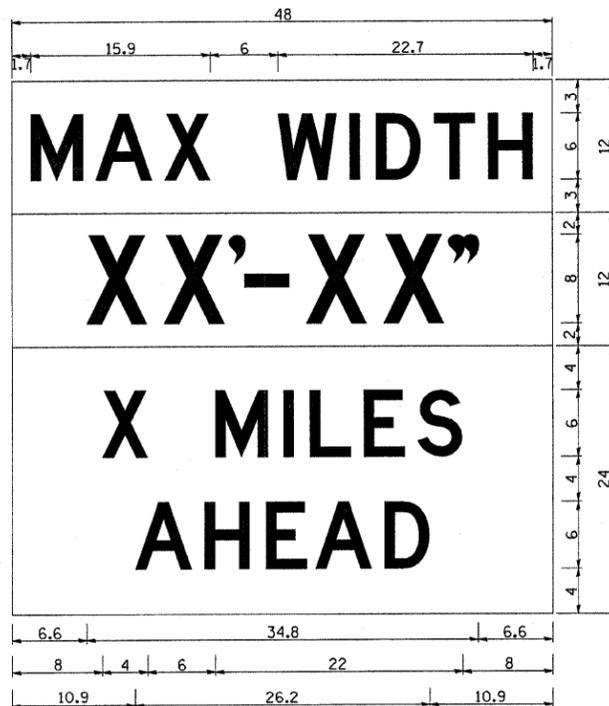
BSD-1 11-1-09

| | | | | | |
|-------------------------|--------------------|-----------------------|-----------------|---------------------------|-----------------|
| SHEET NO. 5 5 SHEETS | F.A.I. RTE. 80 | SECTION (37-2B-2)M | COUNTY HENRY | TOTAL SHEETS 11 | SHEET NO. 10 |
| | CONTRACT NO. 64G23 | | | ILLINOIS FED. AID PROJECT | |

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°



W12-1103 (Width is 80);
 No border, Black on White;
 [MAX WIDTH] D;

No border, Black on Orange;
 [XX'-XX"] D;

No border, Black on White;
 [X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) 39.2

| | | | |
|--|--------------------------------------|----------------|---------------|
| REVISED = 5-15-09 | USER NAME = ljkndj | DESIGNED - --- | REVISED - --- |
| D:\BR\CADD\plans\Henry County\037-0107 | 0108\PLA\eng.dgn | DRAWN - --- | REVISED - --- |
| | PLOT SCALE = 50.0000 / IN. | CHECKED - --- | REVISED - --- |
| | PLOT DATE = Thu Mar 25 07:00:12 2010 | DATE - --- | REVISED - --- |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

| | | | | |
|--------------------|------------|--------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 80 | (37-2B-2)M | Henry | 11 | 11 |
| CONTRACT NO. 64023 | | | ILLINOIS FED. AID PROJECT | |