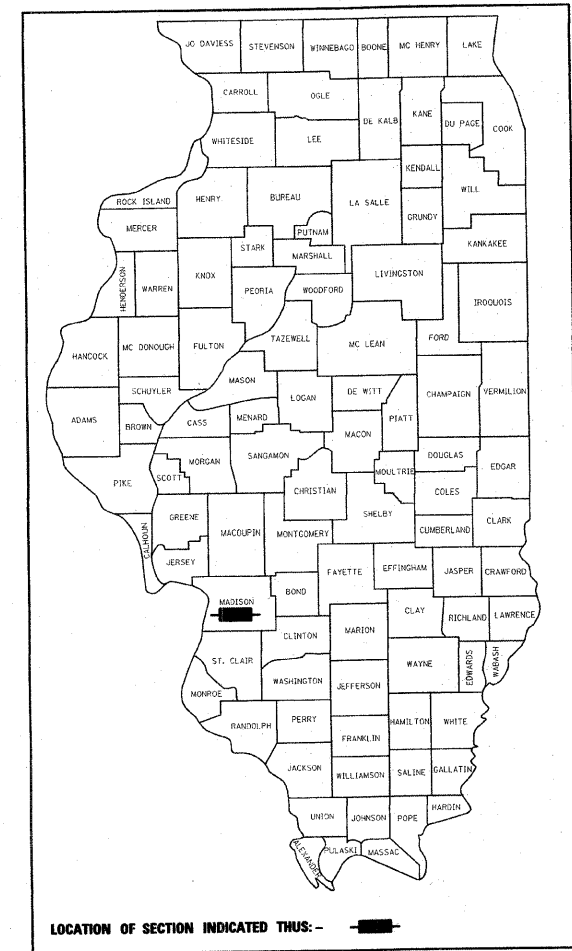


FOR INDEX OF SHEETS, SEE SHEET NO. 2  
 FOR LIST OF STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**PROPOSED  
 HIGHWAY PLANS**

FAI ROUTE 55/70  
 SECTION 60-10K-1, 60-10HB  
 PROJECT NO. *ESP-0005 (658)*  
**MADISON COUNTY**



ADT	
<b>RAMPS</b>	<b>NORTHWEST FRONTAGE RD</b>
8200 (16) INTERSTATE 21.30 (PCC-20)	3900 (16) LOCAL 3.92 (FD-20)
5,500 (2006)	2,650 (2004)
8,200 (2026)	3,900 (2024)
MU = 20.5%	MU = 27.0%
SU = 10.3%	SU = 10.0%
<b>SOUTHWEST FRONTAGE RD</b>	<b>NORTHEAST FRONTAGE RD</b>
4450 (16) LOCAL 0.50 (FD-20)	5800 (16) LOCAL 6.34 (FD-20)
3,000 (2004)	3,850 (2004)
4,450 (2024)	5,800 (2024)
MU = 1.2%	MU = 30.0%
SU = 5.2%	SU = 9.5%
<b>SOUTHEAST FRONTAGE RD</b>	<b>I-55/70 (N OF IL 162)</b>
3000 (16) LOCAL 1.70 (FD-20)	
2,000 (2004)	43,600 (2004)
3,000 (2024)	64,500 (2024)
MU = 14.2%	MU = 22.6%
SU = 9.5%	SU = 4.2%
<b>I-55/70 (S OF IL 162)</b>	<b>IL 162 (W OF I-55/70)</b>
	WIDENING
43,600 (2004)	(STA. 482 + 20 - STA. 485 + 50)
64,100 (2024)	23800 (16) ARTERIAL 16.83 (FD-20)
MU = 20.2%	NEW CONSTRUCTION
SU = 7.6%	(STA. 485 + 50 - STA. 498 + 50)
	23800 (16) ARTERIAL 15.14 (PCC-20)
	16,100 (2004)
	23,800 (2024)
	MU = 14.2%
	SU = 9.5%
<b>IL 162 (E OF I-55/70)</b>	
NEW CONSTRUCTION	
(STA. 500 + 50 - STA. 507 + 90)	
37000 (16) ARTERIAL 23.53 (PCC-20)	
25,000 (2004)	
37,000 (2024)	
MU = 14.2%	
SU = 9.5%	

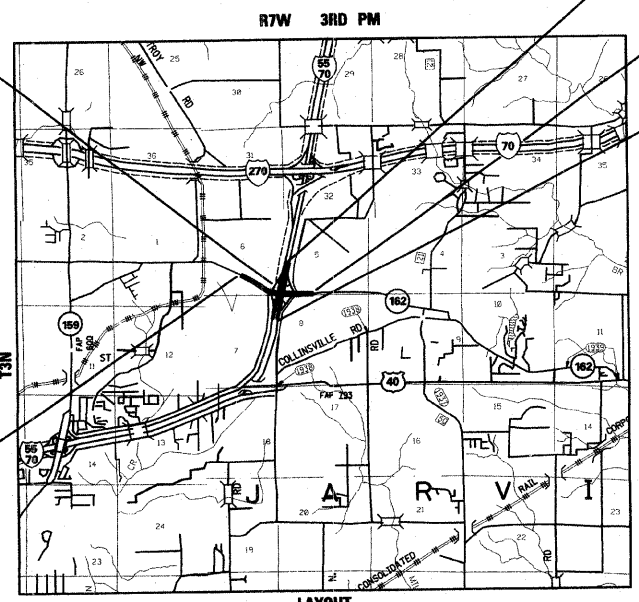
**BRIDGE REPLACEMENT,  
 NEW INTERCHANGE,  
 TRAFFIC SIGNALS AND LIGHTING**  
 C-98-113-03

**BEGIN IMPROVEMENT**  
 FAI 70 STA. 1325 + 65.00

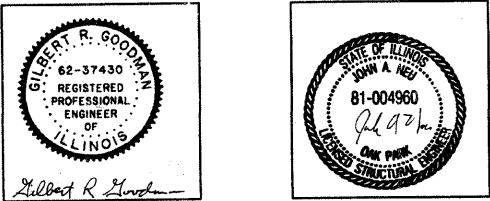
**END IMPROVEMENT**  
 FAP 586 (IL 162)  
 STA. 514 + 49.11

**END IMPROVEMENT**  
 FAI 70 STA. 1376 + 58.00

STA. 1353 + 15.80 FAI 70 =  
 STA. 499 + 48.35 FAP 586 (IL 162)  
 STRUCTURE NO. 060-0139  
 (PROP.) 060-0338

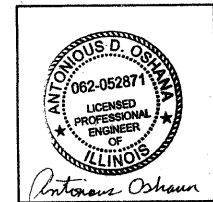


**BEGIN IMPROVEMENT**  
 FAP 586 (IL 162)  
 STA. 478 + 20.00



GILBERT R. GOODMAN, P.E.  
 NO. 062-037430  
 EXP. DATE 11/30/05  
 CIVIL DRAWINGS

JOHN A. NEU S.E.  
 NO. 081-004960  
 EXP. DATE 11/30/10  
 STRUCTURAL DRAWINGS



ANTONIOUS D. OSHANA, P.E.  
 NO. 062-052871  
 EXP. DATE 11/30/09  
 LIGHTING AND TRAFFIC  
 SIGNAL DRAWINGS

PLANS PREPARED BY  
**STV Incorporated**  
 engineers/architects/scientists/construction managers  
 Chicago, Illinois (312)553-0655

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED *Feb 11, 2009*  
*May C. Hamis*  
 DEPUTY DIRECTOR OF HIGHWAYS  
 REGION FIVE ENGINEER

*March 27, 2009*  
*Charles J. Ingersoll*  
 ENGINEER OF DESIGN AND ENVIRONMENT

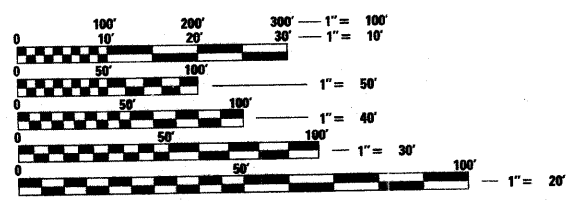
*March 27, 2009*  
*Christine M. Reed*  
 DIRECTOR, DIVISION OF HIGHWAYS

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

Rev. 4-10-09

PROJECT ENGINEER: PATTI J. LEBEAU (618) 346-3179  
 SQUAD LEADER: CHERYL L. KEPLAR (618) 346-3186

MICROFILMED \_\_\_\_\_  
 REEL NUMBER \_\_\_\_\_  
 AWARDED \_\_\_\_\_  
 RESIDENT ENGINEER \_\_\_\_\_  
 AS BUILT CHANGES WERE MADE  
 ON THE FOLLOWING SHEETS \_\_\_\_\_



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

CONTRACT NO. 76709

**IDOT HIGHWAY STANDARDS**

**INDEX OF SHEETS**

1. COVER SHEET
2. INDEX OF SHEETS AND STANDARDS
3. GENERAL NOTES AND COMMITMENTS
- 4.-14 SUMMARY OF QUANTITIES
- 15.-26. SCHEDULE OF QUANTITIES
- 27.-31. TYPICAL CROSS SECTIONS IL RTE 162
- 32.-37. ALIGNMENT, TIES AND BENCHMARKS
- 38.-45. EXISTING PLAN AND REMOVALS
- 46.-61. PROPOSED PLAN AND PROFILE
- 62.-65. GENERAL NOTES AND TYPICAL SECTIONS MAINTENANCE OF TRAFFIC
- 66.-77. MAINTENANCE OF TRAFFIC
- 78.-79. MAINTENANCE OF TRAFFIC STAGE I TEMPORARY ALIGNMENT
- 80.-81. MAINTENANCE OF TRAFFIC STAGE II & III TEMPORARY ALIGNMENT
- 82.-85. TEMPORARY ROADWAY PROFILES
- 86.-93. EROSION CONTROL AND TEMPORARY DRAINAGE
- 94.-103. STORM WATER POLLUTION PREVENTION PLAN
- 104.-114. PROPOSED DRAINAGE PLAN
- 115.-121. PROPOSED DRAINAGE PROFILES
- 122.-126. PLATS OF HIGHWAYS
- 127.-132. INTERSECTION LAYOUT DETAILS
- 133.-138. INTERSECTION ELEVATION DETAILS
- 139.-146. PROPOSED PAVEMENT MARKING AND SEEDING
- 147.-150. INTERCHANGE GRADING DETAILS
  151. GEOTEXTILE RETAINING WALL DETAIL
  152. BUTT JOINT AND PAVEMENT DETAILS
  153. CURB AND GUTTER TRANSITION DETAILS
- 154.-155. ENTRANCE DETAILS
  156. ROADWAY DETAILS
  157. PRECAST CONCRETE BOX CULVERT END SECTION
  158. DRAINAGE DETAILS
- 159.-161. GRATING FOR PRECAST CONCRETE END SECTION
- 162.-163. PAVEMENT MARKING DETAIL
  164. OVERHEAD SIGN STRUCTURES SIGN PANEL PLACEMENT
- 165.-166. PROPOSED SIGN PANEL DETAILS
  167. OVERHEAD SIGN STRUCTURE GENERAL PLAN & ELEVATION
- 168.-176. OVERHEAD SIGN STRUCTURE DETAILS
  177. SOIL BORING LOGS
  178. ROADWAY LIGHTING GENERAL NOTES, LEGENDS AND SHEET INDEX
  179. SCHEDULE OF QUANTITIES - ROADWAY LIGHTING
- 180.-186. PROPOSED ROADWAY LIGHTING PLANS
  - 187.-193A. PROPOSED ROADWAY LIGHTING DETAILS
  194. TRAFFIC SIGNALS GENERAL NOTES, LEGENDS AND SHEET INDEX
  195. SCHEDULE OF QUANTITIES - TRAFFIC SIGNALS
- 196.-202. PROPOSED TRAFFIC SIGNAL PLANS
  203. PROPOSED TRAFFIC SIGNAL DETAILS
- 204.-207. MONOTUBE SPAN STRUCTURE
  - 208.-210. APPROACH SLAB DETAILS
  - 211.-218. RAMPS APPROACH SLAB (SPECIAL)
  - 219.-286. STRUCTURE NO. 060-0338 (BRIDGE)
  - 287.-301. STRUCTURE NO. 060-W004 (MSE WALL)
  - 302.-313. STRUCTURE NO. 060-W006 (MSE WALL)
  - 314.-316. CROSS SECTIONS KEY PLAN
  - 317.-420. CROSS SECTIONS

▲ \* 204.-207. MONOTUBE SPAN STRUCTURE

▲ \* ADD 207A.-207E. STEEL BEAM REPLACEMENT

- |   |  |
|---|--|
| 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS  | 631011-05 TRAFFIC BARRIER TERMINAL, TYPE 2   |
| 001001-02 AREAS OF REINFORCEMENT BARS   | 635001-01 DELINEATORS  |
| 280001-04 TEMPORARY EROSION CONTROL SYSTEMS   | 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT  |
| 420001-07 JOINT DETAIL  | 635011-02 REFLECTOR AND MARKER MOUNTING DETAILS  |
| 420201-05 ENTRANCE RAMP TERMINAL  | 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS  |
| 420301-04 EXIT RAMP TERMINAL  | 701326-03 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH                                   |
| 421001-02 BAR REINFORCEMENT FOR CRC PAVEMENT  | 701400-03 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY   |
| 482001-02 HOT-MIX ASPHALT SHOULDER ADJACENT TO FLEXIBLE PAVEMENT                                      | 701401-05 LANE CLOSURE, MULTI-LANE ENTRANCE OR EXIT RAMP,  |
| 483001-04 PCC SHOULDER  | <del>701402-07 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER</del>                                      |
| 515001-03 NAME PLATE FOR BRIDGES  | 701406-05 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY  |
| 542116-02 REINF. CONC. END SECTIONS FOR MULTIPLE (2&3) PIPE CULVERTS 15" THRU 36" DIA. AT RIGHT ANGLE | 701411-05 LANE CLOSURE, FREEWAY/EXPRESSWAY FOR SPEEDS ≥ 45 MPH   |
| 542301-02 PRECAST REINFORCED CONCRETE FLARED END SECTION  | <del>701421-02 LANE CLOSURE, FREEWAY/EXPRESSWAY DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH</del> |
| 542306-02 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION                                   | <del>701422-02 LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH</del>                              |
| 542401-01 METAL END SECTION FOR PIPE CULVERTS   | 701423-03 LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS ≥ 45 MPH TO 55 MPH                           |
| 542311-01 GRATING FOR CONCRETE FLARED END SECTION (FOR 24" THRU 54" PIPE)                             | 701501-05 URBAN LANE CLOSURE, 2L, 2WW, UNDIVIDED   |
| 542531-03 INLET BOX, TYPE G (24")   | 701601-06 URBAN LANE CLOSURE, MULTI-LANE, 1W OR 2W WITH NON-TRAVERSIBLE MEDIAN                           |
| 542606-01 REINFORCED CONCRETE PIPE TEE  | 701602-04  |
| 601001-03 SUB-SURFACE DRAINS  | 701701-06 URBAN LANE CLOSURE, MULTIPLE INTERSECTION  |
| 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN  | 701901-01 TRAFFIC CONTROL DEVICES  |
| 602301-02 INLET, TYPE A   | 704001-05 TEMPORARY CONCRETE BARRIER   |
| 602306-02 INLET, TYPE B   | 720001-01 SIGN PANEL MOUNTING DETAILS  |
| 602401-02 MANHOLE, TYPE A   | 720006-02 SIGN PANEL ERECTION DETAILS  |
| 602601-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP   | 720011-01 METAL POSTS (SIGNS, MARKERS, DELINEATORS)  |
| 602701-02 CAST IRON STEPS   | 720016-02 MAST ARM MOUNTED STREET NAME SIGNS   |
| 604011-04 FRAME AND GRATE, TYPE 3V  | 720021-02 SIGN PANELS - EXTRUDED ALUMINUM TYPE   |
| 604016-02 FRAME AND GRATE, TYPE 4   | 729001-01 APPLICATIONS OF TYPE A AND B METAL POSTS   |
| 604036-02 GRATE, TYPE 8   | 780001-02 TYPICAL PAVEMENT MARKINGS  |
| 606001-04 CONCRETE CURB, TYPE B AND COMBINATION CONCRETE CURB & GUTTER                                | 781001-03 TYPICAL APPLICATIONS, RAISED REFLECTIVE PAVEMENT MARKERS                                       |
| 606006-02 OUTLET FOR CONCRETE CURB AND GUTTER, TYPE B-6.24  | 805001-01 ELECTRIC SERVICE INSTALLATION DETAILS  |
| 609006-04 BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)   | 814001-02 HANDHOLES  |
| 606301-04 PC CONCRETE ISLANDS AND MEDIANS   | 814006-02 DOUBLE HANDHOLES   |
| 606306-03 CORRUGATED PCC MEDIANS  | 877001-04 STEEL MAST ASSEMBLY AND POLE   |
| 630001-08 STEEL PLATE BEAM GUARDRAIL  | 878001-07 CONCRETE FOUNDATION DETAILS  |
| 630201-06 PCC/BIT STABILIZATION & STEEL PLATE BEAM GUARDRAIL  | 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS  |
| 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS                                  | 886001-01 DETECTOR LOOP INSTALLATIONS  |
|   | 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS  |

▲ Rev. 4-10-09

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**INDEX OF SHEETS AND STANDARDS**

DRAWN BY: GRH

PLOT DATE: \*DATE-TIME\*

DATE	
BY	
DESIGNED	
CHECKED	
IN CHARGE	
FILE NO.	
PLAN NO.	
NOTE BOOK NO.	

880115-1  
880115-2  
880115-3  
880115-4  
880115-5  
880115-6  
880115-7  
880115-8  
880115-9  
880115-10

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Flange splice holes shall be  $\frac{15}{16}$ "  $\phi$  for  $\frac{7}{8}$ "  $\phi$  bolts. Web splice holes shall be  $\frac{13}{16}$ "  $\phi$  for  $\frac{3}{4}$ "  $\phi$  bolts.

The Contractor shall provide support and/or shoring systems for the slab and beam in the area of existing beam removal. See Special Provisions "Temporary Shoring and Cribbing" and "Temporary Slab Support System."

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

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.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures", and "Cleaning and Painting New Metal Structures". The color of the final finish coat shall be Interstate Green, Munsell No. 7.5G 4/8. Cost included with Beam Straightening.

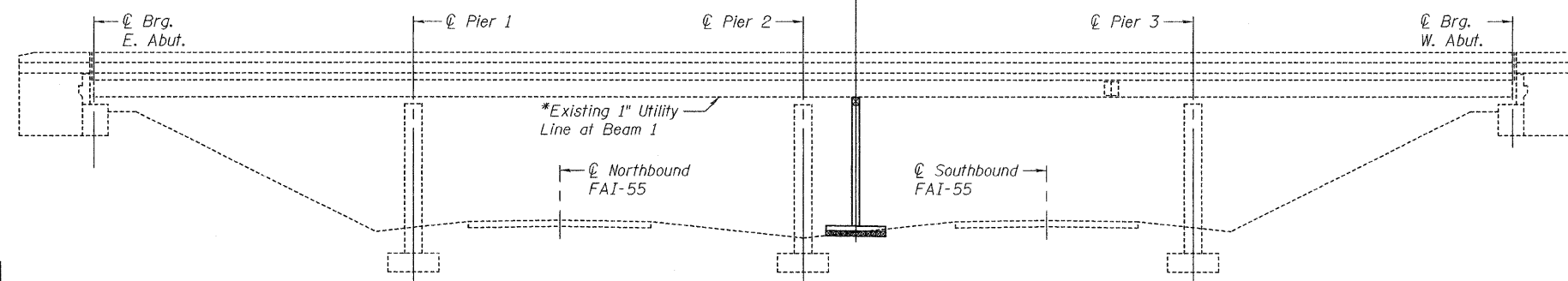
Diaphragm connection holes shall be  $\frac{15}{16}$ "  $\phi$  for  $\frac{3}{4}$ "  $\phi$  bolts. Two hardened washers shall be required at diaphragm connections.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

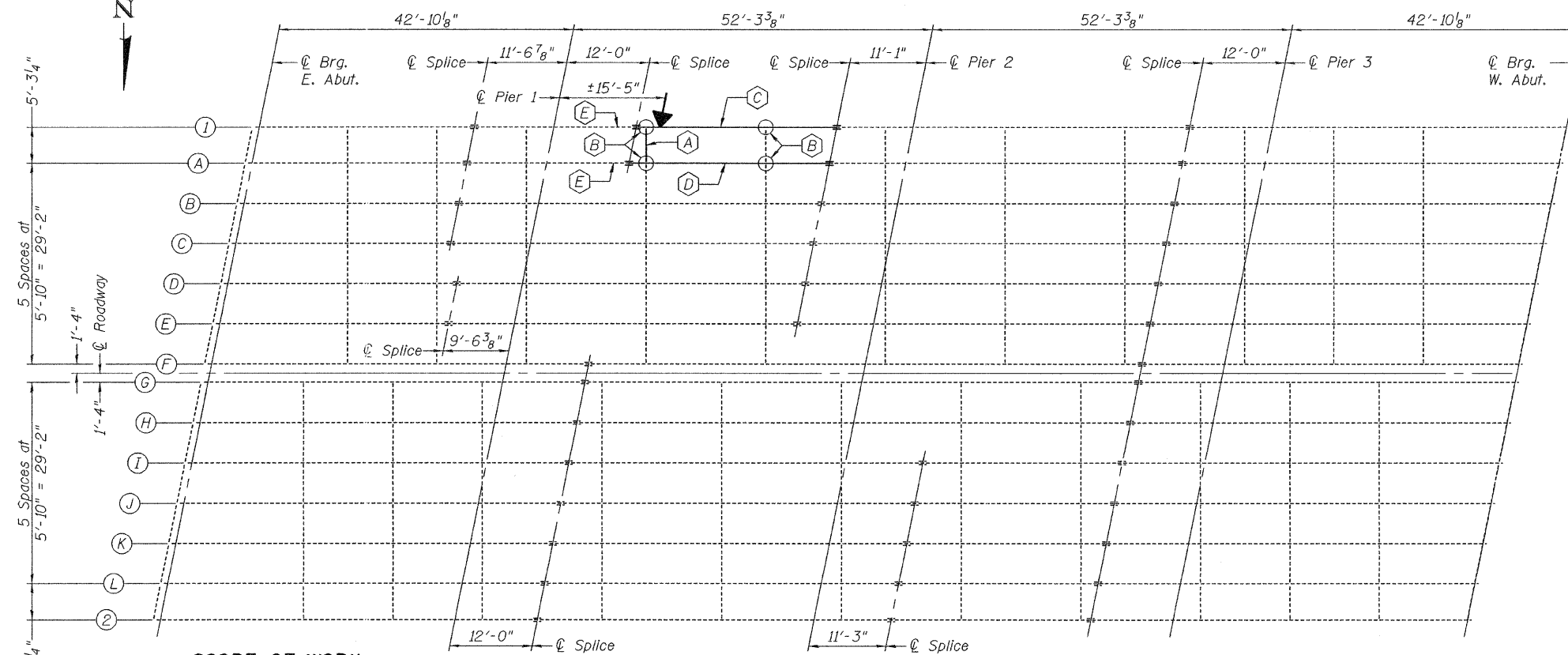
The Contractor is responsible for the method of supporting the portion of existing girder to be removed prior to, during cutting and removal operations, and shall ensure that cuts made are smooth and straight.

\*Temporarily relocate Utility Line and re-attach to new beam. (See Roadway Plans)

Temporary shoring may be required to facilitate alignment of existing splice. Use 12"x12" Timbers or HP's to be paid for as Temporary Shoring and Cribbing. The shoring shall be removed as soon as possible after splice has been completed to minimize Traffic Control in the South Bound Lanes.



ELEVATION



PLAN  
Impact  
Line

SCOPE OF WORK

- (A) Existing Diaphragm to be removed and replaced.
- (B) Existing clip L's top and bottom to be removed and replaced.
- (C) Existing W27x114 Beam segment to be removed and replaced.
- (D) Existing W30x108 Beam segment to be removed and replaced.
- (E) Beam to be straightened.

\*BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	9,400
Structural Steel Removal	Pound	5,070
Temporary Slab Support System	L.S.	1
Beam Straightening	L.S.	1
Temporary Shoring and Cribbing	L.S.	1

\*For Information Only. Cost included with Removal of Existing Structures.

DESIGNED Victor H. Volitz  
CHECKED Adrian J. Hallaway  
DRAWN [Signature]  
CHECKED VHV ATH

April 10, 2009  
EXAMINED D. Carl Pevan SFS  
ENGINEER OF STRUCTURAL SERVICES  
PASSED Robert E. Owens  
ENGINEER OF BRIDGES AND STRUCTURES



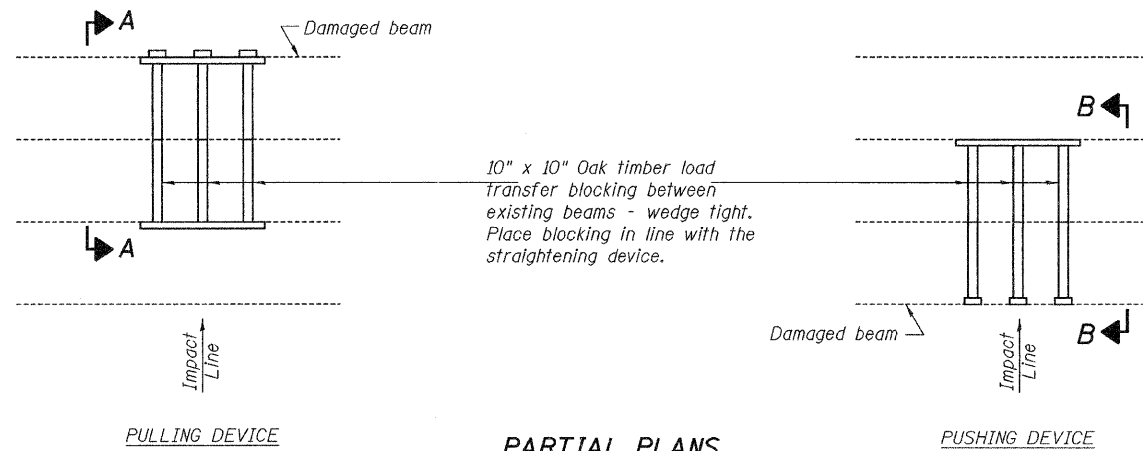
Expires: November 30, 2010

PLAN AND ELEVATION  
SN 060-0139

SHEET NO. 1 5 SHEETS	F.A.I. RTE. 70	SECTION 60-10HB-4R	COUNTY Madison	TOTAL SHEETS 420	SHEET NO. 207A
	FED. ROAD DIST. NO. ILLINOIS			FED. AID PROJECT CONTRACT NO. 76709	

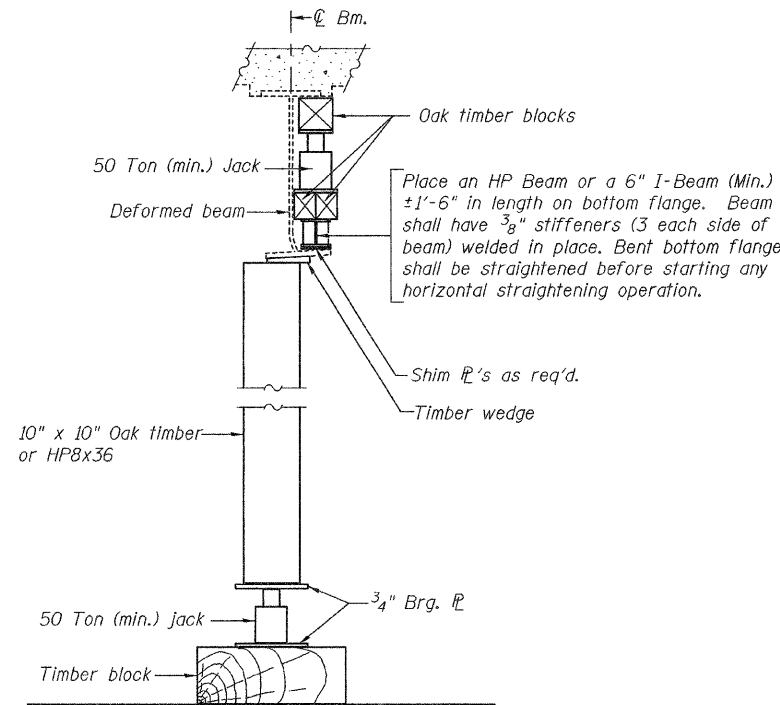
Added Sheet 04/10/09 V.H.V. M.A.C.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

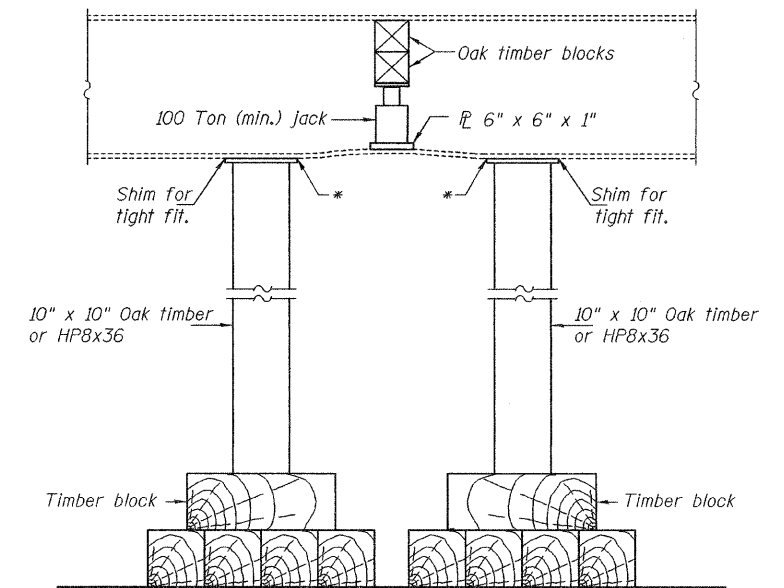


**PARTIAL PLANS**  
**SUGGESTED BEAM STRAIGHTENING METHODS**

Straightening force shall be maintained on all load transfer blocking during beam straightening.



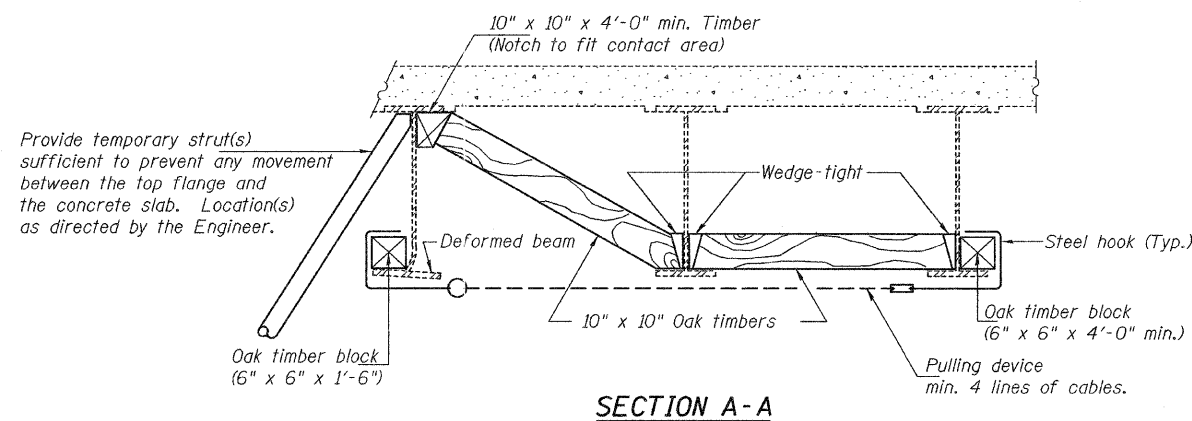
**SUGGESTED VERTICAL STRAIGHTENING DETAIL**  
(To correct flange rotation.)



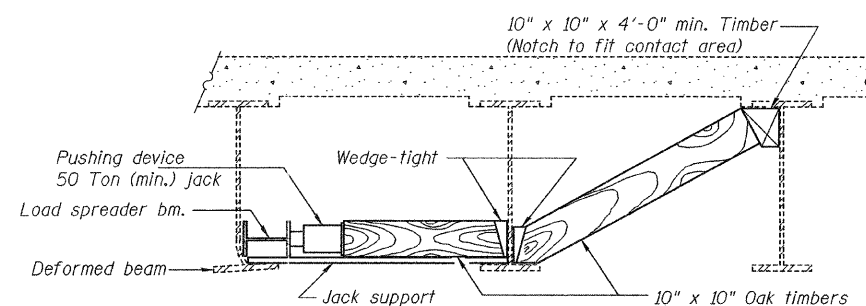
**SUGGESTED VERTICAL STRAIGHTENING DETAIL**  
(To correct localized vertical flange deformations.)

\* Edge of plate shall line up with edge of deformation.

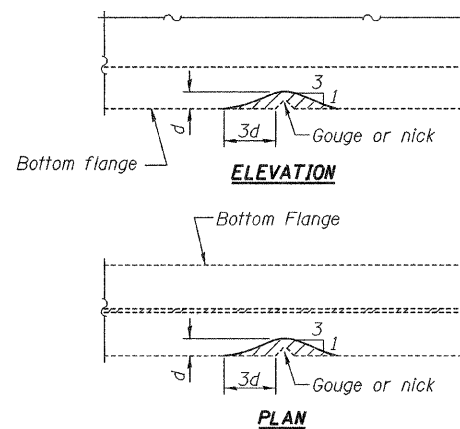
Note:  
Braces and jack assembly shall be placed on same side of web.  
Bent bottom flange shall be straightened before starting any horizontal straightening operations.



**SECTION A-A**

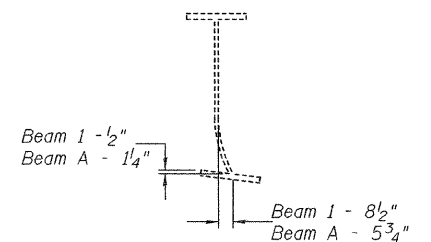


**SECTION B-B**



**GRINDING DETAIL**

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



**EXISTING DEFORMATION TO BE STRAIGHTENED**

(Looking East)  
(Approximate max. deflections)  
Deflected length of beam to be straightened is approximately 6'-0\".

DESIGNED	V.H.V.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	V.H.V. A.T.H.

EXAMINED	April 10, 2009
PASSED	Carl [Signature] ENGINEER OF STRUCTURAL SERVICES
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

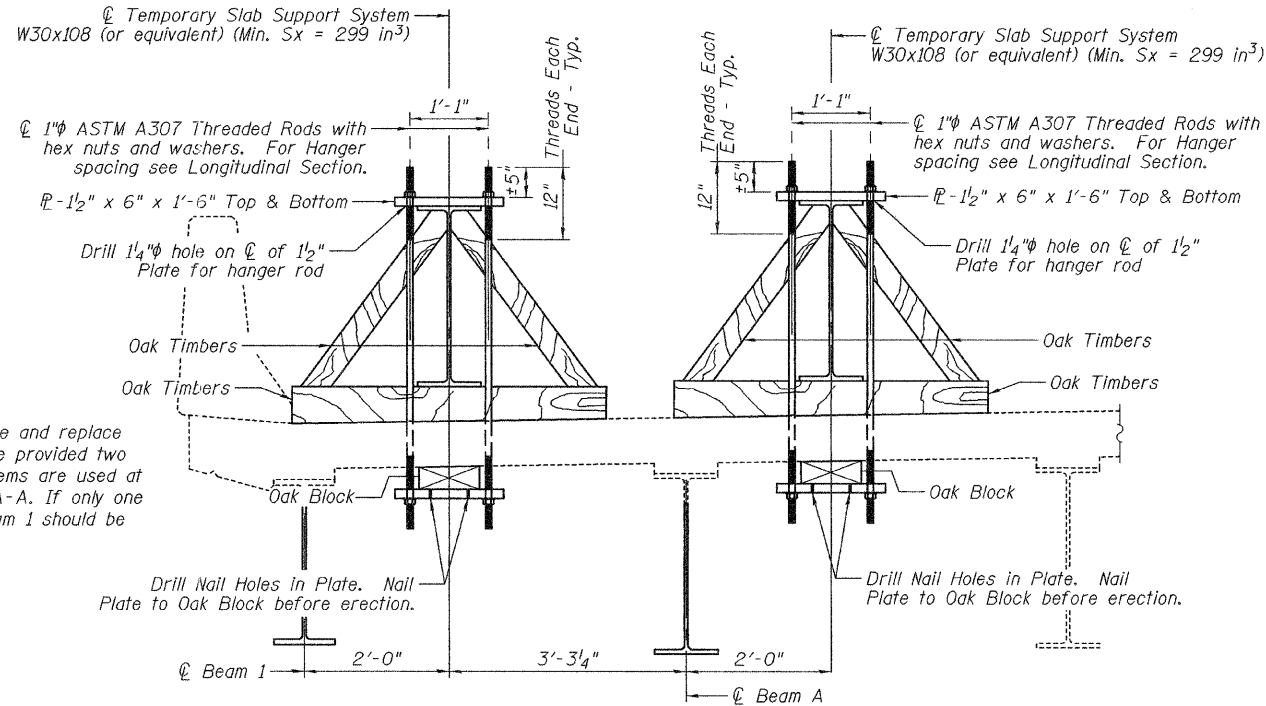
**BEAM STRAIGHTENING DETAILS**  
**SN 060-0139**

SHEET NO. 2 5 SHEETS	F.A.I. RTE. 70	SECTION 60-10HB-4R	COUNTY Madison	TOTAL SHEETS 420	SHEET NO. 207B
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 76709	

REP-11-14-2005  
SLT-98-001-09

Added Sheet 04/10/09 V.H.V. M.A.C.

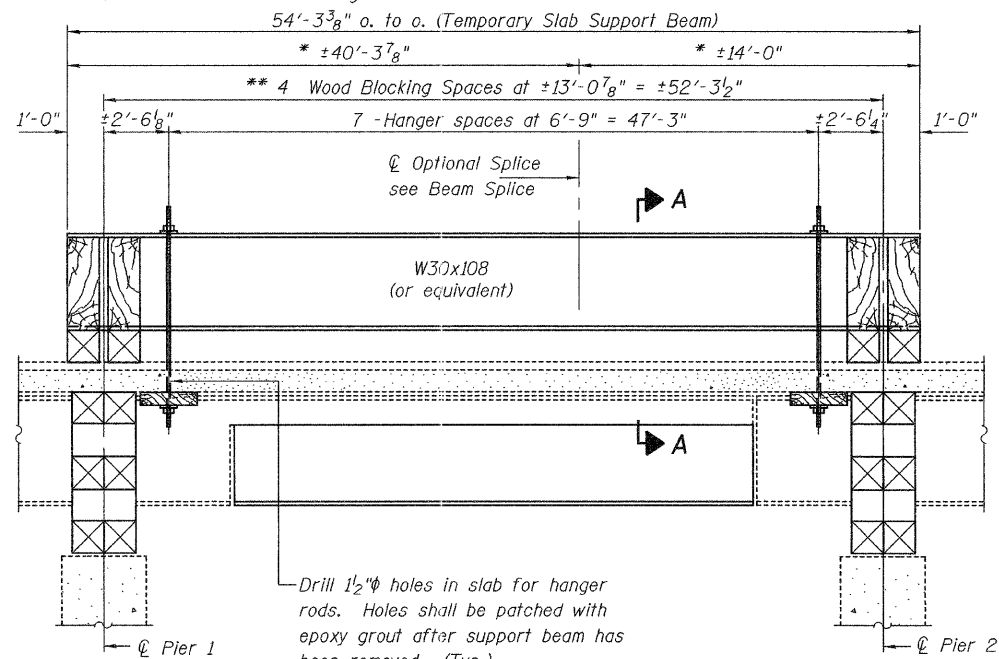
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**Support Note:**  
The Contractor may remove and replace both beams at the same time provided two temporary slab support systems are used at locations shown in Section A-A. If only one beam is done at a time, Beam 1 should be completed first.

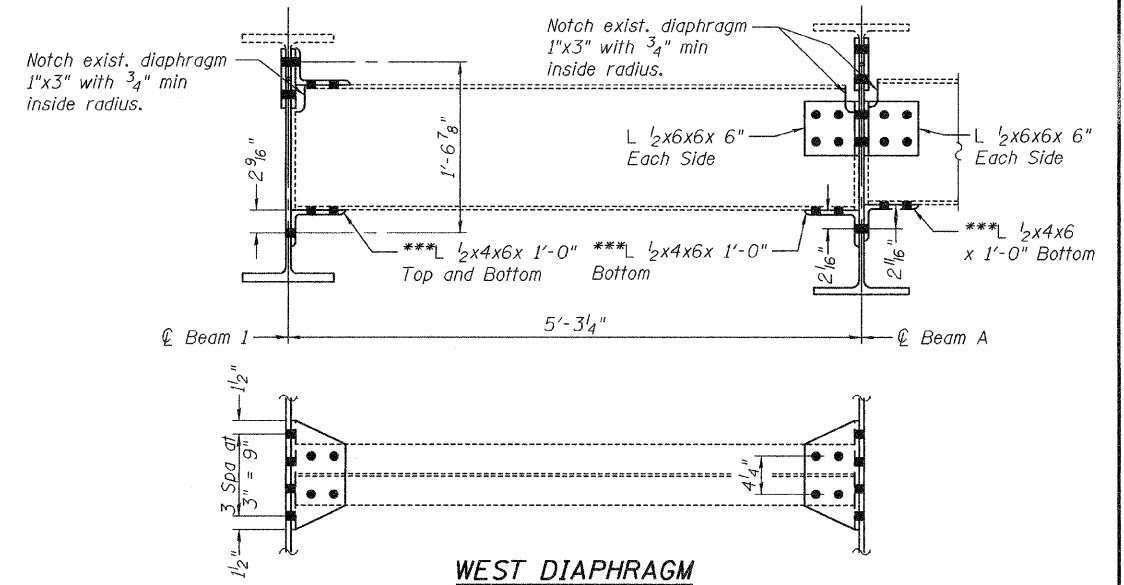
\* These dimensions may vary for available beams in stock.  
\*\* Wood blocking is to be installed after beam has been allowed to deflect under its own weight.

**SECTION A-A**

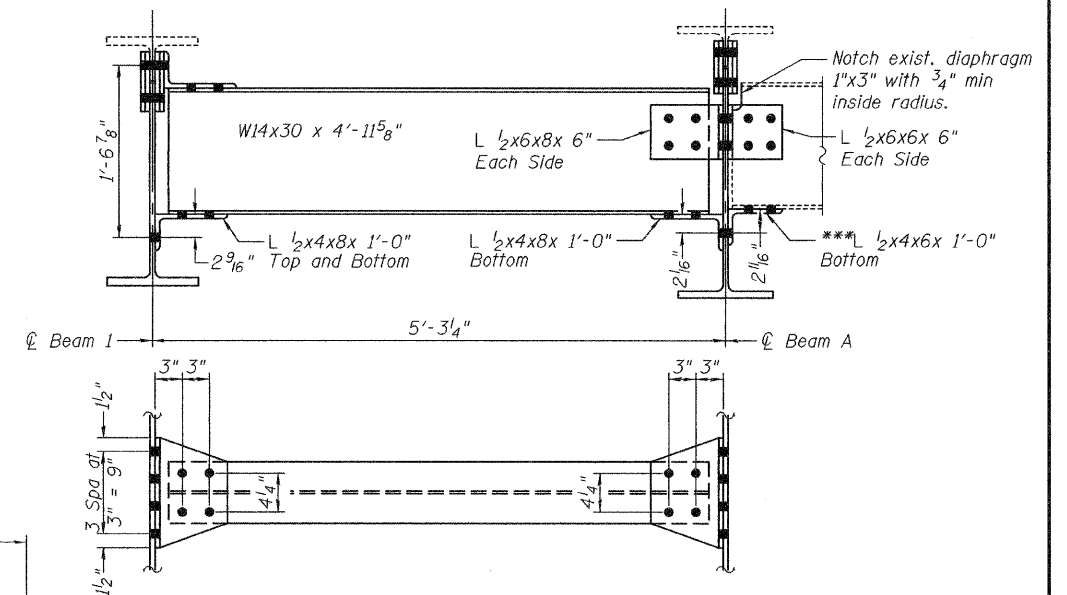


**LONGITUDINAL SECTION  
SUGGESTED TEMPORARY SLAB SUPPORT SYSTEM**

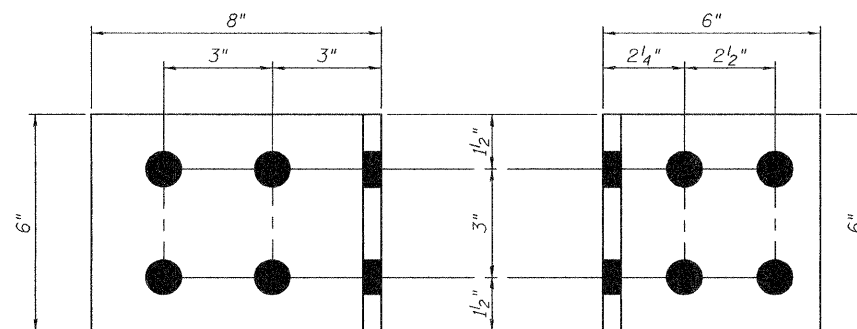
\*\*\*Field drill to match existing diaphragm.



**WEST DIAPHRAGM**



**EAST DIAPHRAGM**



**8" LEG**

**6" LEG**

**1/2x6x8x 6" SIDE CLIP ANGLE**  
(2 Required)

**1/2x6x6x 6" SIDE CLIP ANGLE**  
(6 Required)

**REPAIRS A AND B**

**DECK SUPPORT AND  
DIAPHRAGM DETAILS**  
SN 060-0139

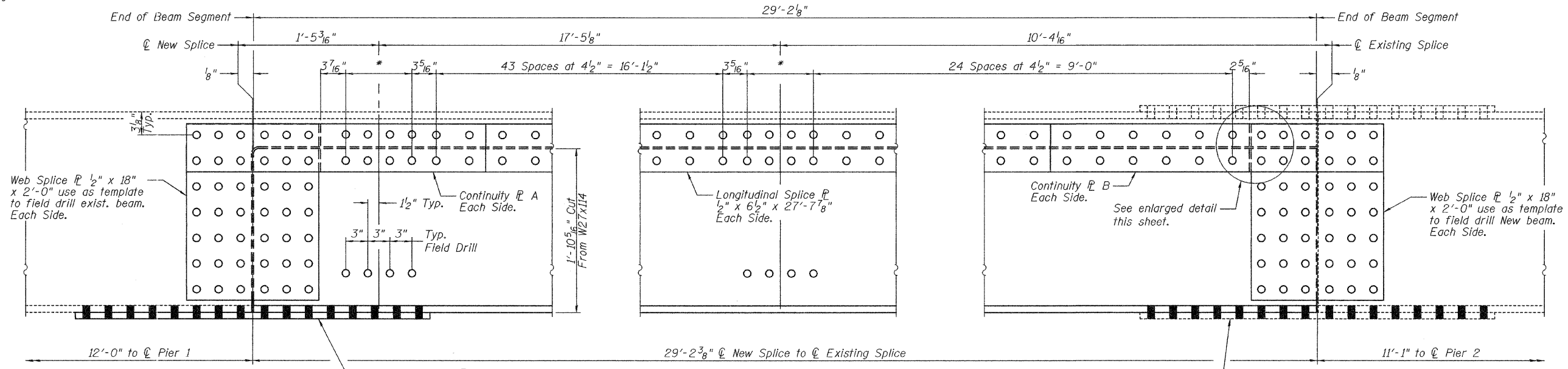
DESIGNED	V.H.V.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	V.H.V. A.T.H.
REP-2	1-27-2000

EXAMINED	April 10, 2009
PASSED	Carl P... Ralph E. Anderson

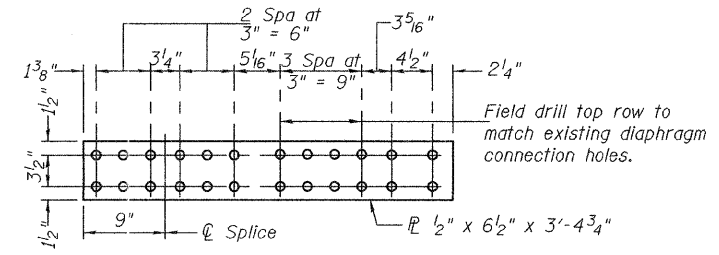
SHEET NO. 3 5 SHEETS	F.A.I. RTE. 70	SECTION 60-10HB-4R	COUNTY Madison	TOTAL SHEETS 420	SHEET NO. 207C
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76709	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

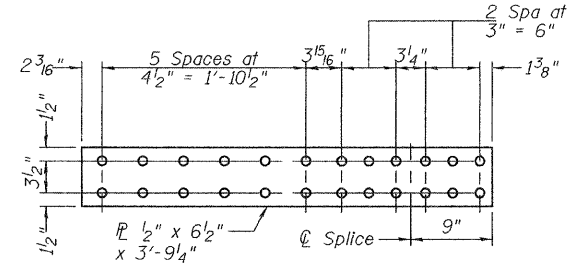
\*3 Spaces at 3" = 9"  
Field drill top row to  
match exist. diaphragm  
connection holes.



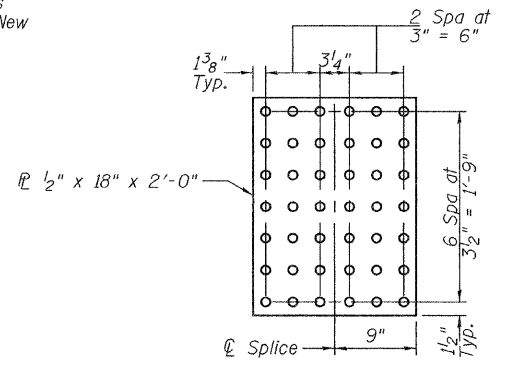
**ELEVATION BEAM 1**  
(Looking South)



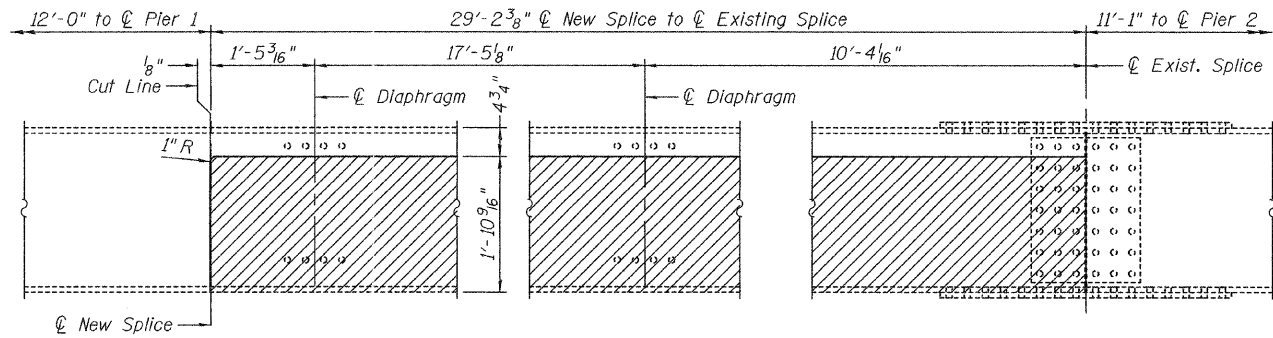
**CONTINUITY PL A**  
(2 Required)



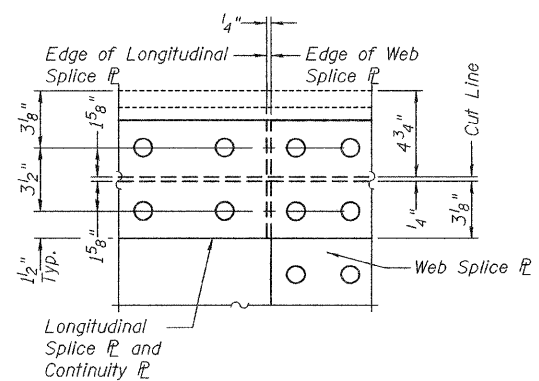
**CONTINUITY PL B**  
(2 Required)



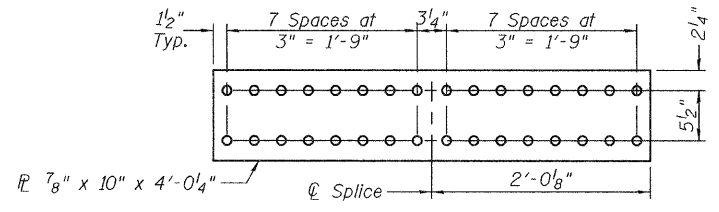
**WEB SPLICE PL**  
(4 Required)



**ELEVATION BEAM 1 REMOVAL**  
(Looking South)



**ENLARGED DETAIL**  
(Opp End Similar)



**FLANGE SPLICE PL**  
(1 Required)

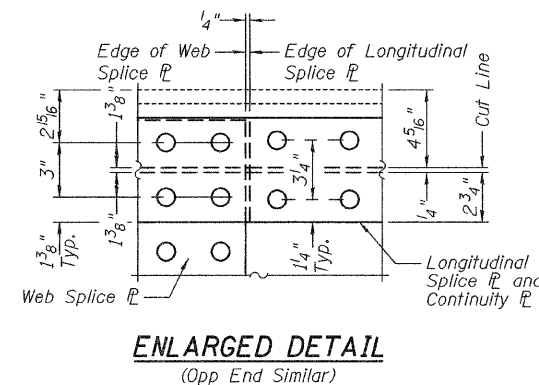
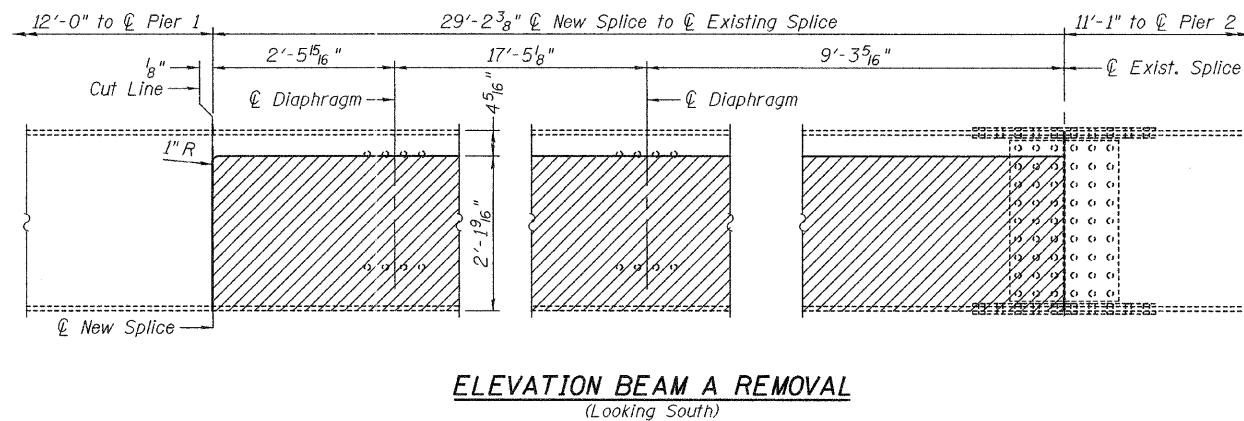
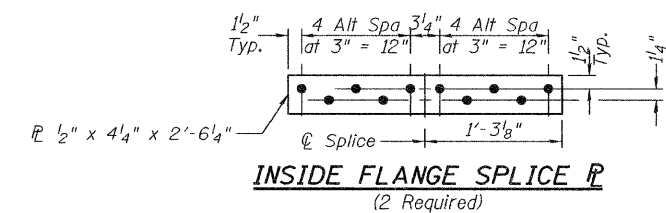
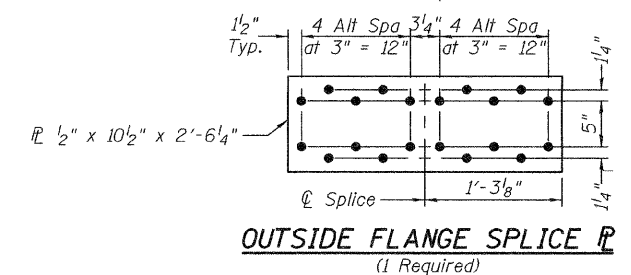
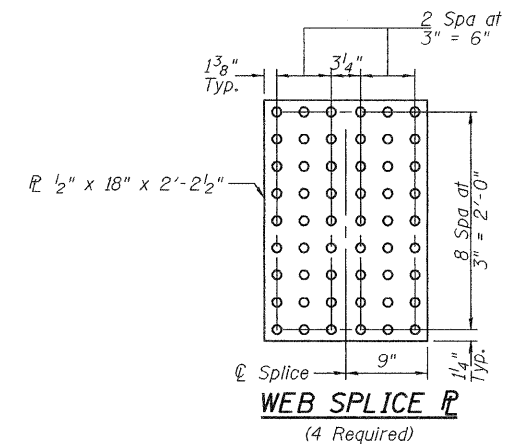
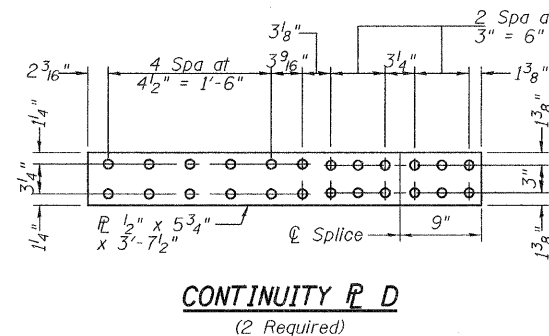
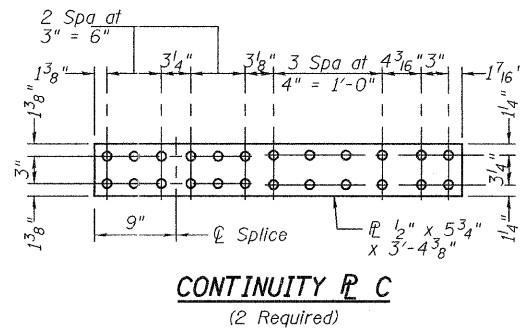
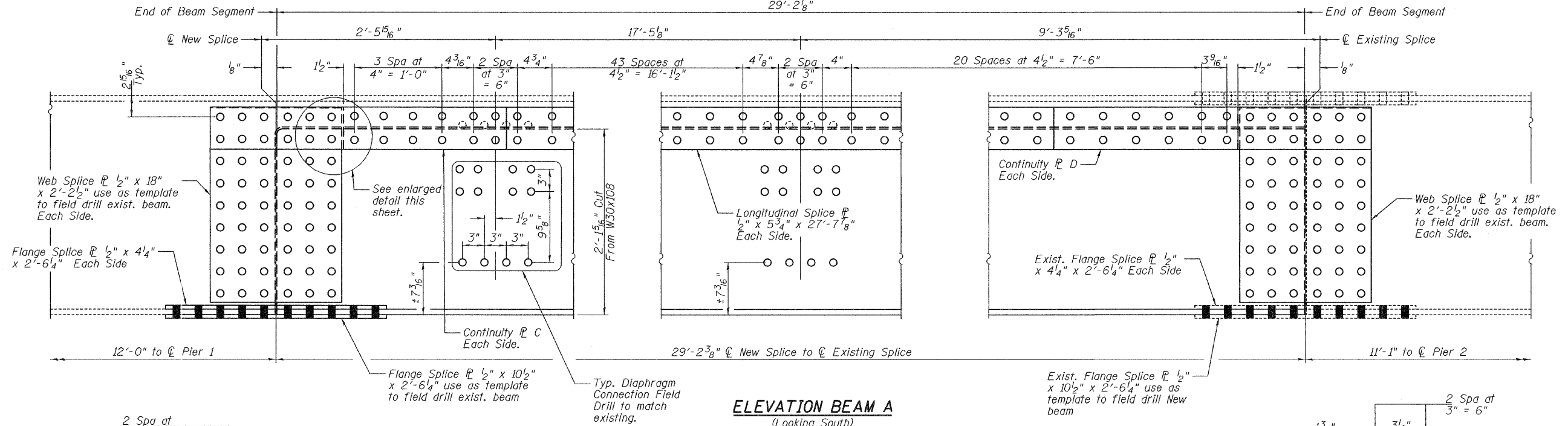
DESIGNED	V.H.V.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	V.H.V. A.T.H.

EXAMINED	April 10, 2009
PASSED	Carl P... ENGINEER OF STRUCTURAL SERVICES
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

**BEAM 1 DETAILS**  
SN 060-0139

SHEET NO. 4 5 SHEETS	F.A.I. RTE. 70	SECTION 60-10HB-4R	COUNTY Madison	TOTAL SHEETS 420	SHEET NO. 207D
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76709	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**BEAM A DETAILS**  
SN 060-0139

DESIGNED	V.H.V.
CHECKED	A.T.H.
DRAWN	Drew Christopher
CHECKED	V.H.V. A.T.H.

EXAMINED	April 10, 2009
PASSED	Carl P. [Signature] ENGINEER OF STRUCTURAL SERVICES
	Ralph E. [Signature] ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 5	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	60-10HB-4R	Madison	420	207E
5 SHEETS	FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT CONTRACT NO. 76709		