

# Dec 02 INDEX OF SHEETS

|             |                              |
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| Sheet No. 1 | Title                        |
| Sheet No.   | Typical Sections and Details |
| Sheet No.   | Estimate of Quantities       |
| Sheet No.   | Miscellaneous Quantities     |
| Sheet No.   | Right of Way Plat            |
| Sheet No.   | Plan and Profile             |
| Sheet No.   | Standard Detail Drawings     |
| Sheet No.   | Sign Plates                  |
| Sheet No.   | ✓ Structure Plans            |
| Sheet No.   | Computer Earthwork Data      |
| Sheet No.   | Cross Sections               |

TOTAL SHEETS = 242

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PLAN OF PROPOSED IMPROVEMENT

# CASS STREET BRIDGE, CITY OF LA CROSSE

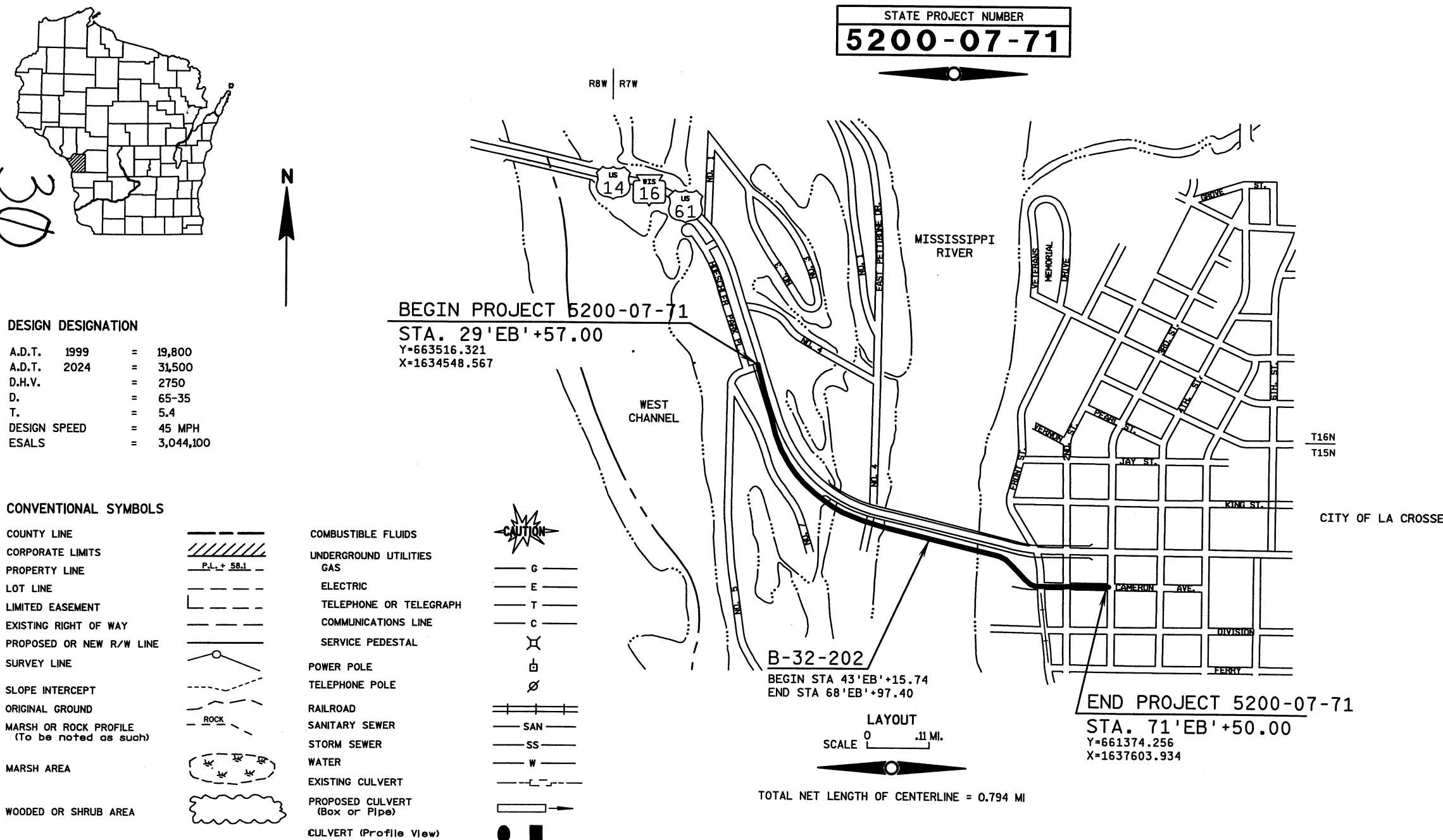
MISSISSIPPI RIVER CROSSING EAST CHANNEL

USH 14/61/STH 16  
LA CROSSE COUNTY

B-32-202

| STATE PROJECT | FEDERAL PROJECT |          |
|---------------|-----------------|----------|
|               | PROJECT         | CONTRACT |
| 5200-07-71    | BR 2003071      | 1        |
|               |                 |          |
|               |                 |          |

STATE PROJECT NUMBER  
5200-07-71



### DESIGN DESIGNATION

|              |   |           |
|--------------|---|-----------|
| A.D.T. 1999  | = | 19,800    |
| A.D.T. 2024  | = | 31,500    |
| D.H.V.       | = | 2750      |
| D.           | = | 65-35     |
| T.           | = | 5.4       |
| DESIGN SPEED | = | 45 MPH    |
| ESALS        | = | 3,044,100 |

### CONVENTIONAL SYMBOLS

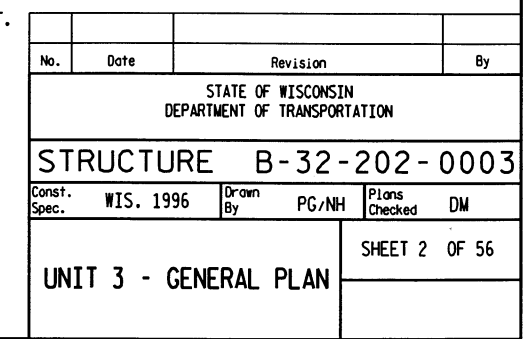
|                                                |                                   |         |
|------------------------------------------------|-----------------------------------|---------|
| COUNTY LINE                                    | COMBUSTIBLE FLUIDS                | CAUTION |
| CORPORATE LIMITS                               | UNDERGROUND UTILITIES             |         |
| PROPERTY LINE                                  | GAS                               | G       |
| LOT LINE                                       | ELECTRIC                          | E       |
| LIMITED EASEMENT                               | TELEPHONE OR TELEGRAPH            | T       |
| EXISTING RIGHT OF WAY                          | COMMUNICATIONS LINE               | C       |
| PROPOSED OR NEW R/W LINE                       | SERVICE PEDESTAL                  | X       |
| SURVEY LINE                                    | POWER POLE                        | □       |
| SLOPE INTERCEPT                                | TELEPHONE POLE                    | ○       |
| ORIGINAL GROUND                                | RAILROAD                          | —+—+—+— |
| MARSH OR ROCK PROFILE<br>(To be noted as such) | SANITARY SEWER                    | —SAN—   |
| MARSH AREA                                     | STORM SEWER                       | —SS—    |
| WOODED OR SHRUB AREA                           | WATER                             | —W—     |
|                                                | EXISTING CULVERT                  | —+—+—+— |
|                                                | PROPOSED CULVERT<br>(Box or Pipe) | —+—+—+— |
|                                                | CULVERT (Profile View)            | ○ ■     |

TOTAL NET LENGTH OF CENTERLINE = 0.794 MI

| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |                                                |
|----------------------------------------------------|------------------------------------------------|
| PREPARED BY                                        |                                                |
| Surveyor                                           | MYLES JOHNSON                                  |
| Designer                                           | DENNIS PARSLEY                                 |
| District Examiner                                  | STEPHEN FLOTTMEYER                             |
| District Supervisor                                |                                                |
| Proj. Dev. Engineer                                |                                                |
| C.O. Examiner                                      | Jane Englebreton                               |
| APPROVED FOR DISTRICT OFFICE                       |                                                |
| DATE                                               | 6/27/02 <i>Jane Englebreton</i><br>(Signature) |

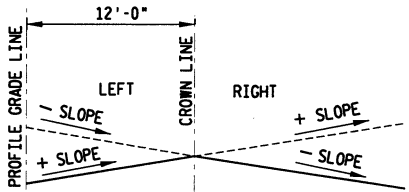
"Coordinates on this plan are referenced to the Wisconsin State Plane  
Coordinate System (WSPCS), 'Central' Zone."



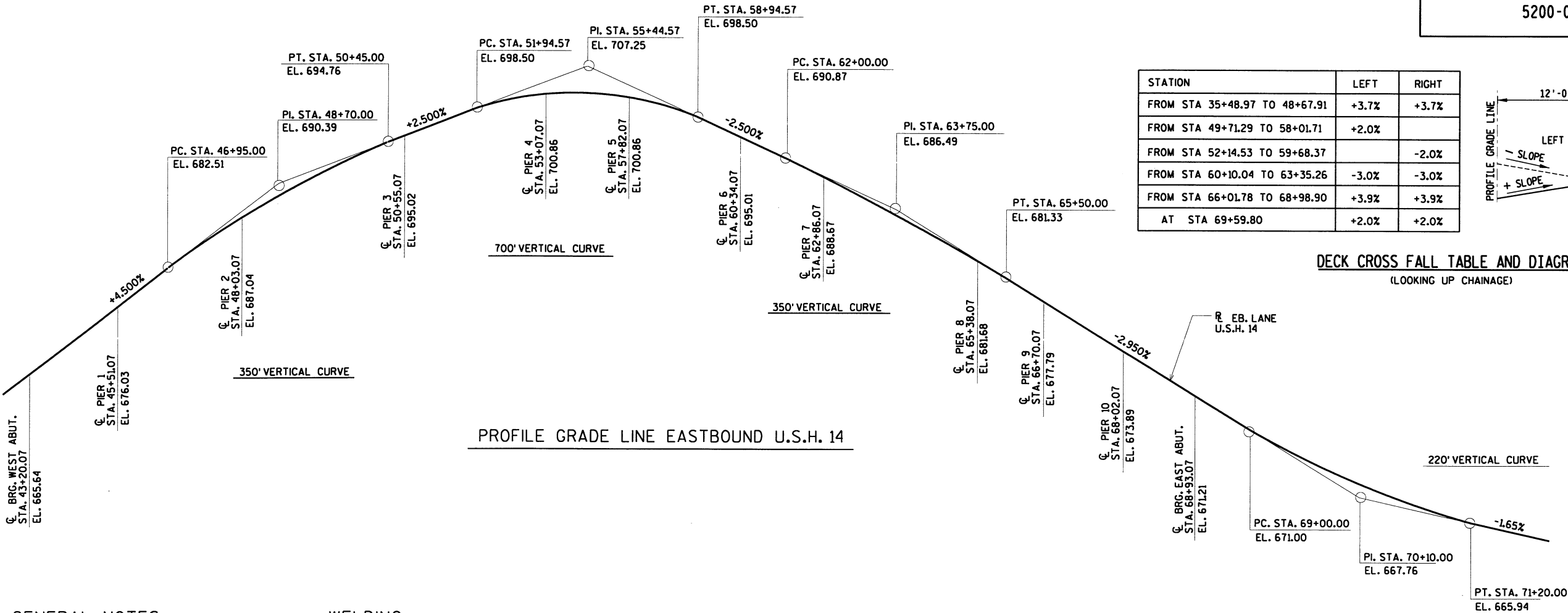




| STATION                       | LEFT  | RIGHT |
|-------------------------------|-------|-------|
| FROM STA 35+48.97 TO 48+67.91 | +3.7% | +3.7% |
| FROM STA 49+71.29 TO 58+01.71 | +2.0% |       |
| FROM STA 52+14.53 TO 59+68.37 |       | -2.0% |
| FROM STA 60+10.04 TO 63+35.26 | -3.0% | -3.0% |
| FROM STA 66+01.78 TO 68+98.90 | +3.9% | +3.9% |
| AT STA 69+59.80               | +2.0% | +2.0% |



DECK CROSS FALL TABLE AND DIAGRAM  
(LOOKING UP CHAINAGE)



### GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

WEATHERING STEEL TO BE PAINTED IN THE LOCATIONS AND BY THE METHODS SPECIFIED IN SECTION 506.3.32 OF THE SPECIFICATIONS. FINISHING COAT SHALL BE BROWN IN COLOR.

ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" A325 HIGH-TENSILE STRENGTH BOLTS UNLESS OTHERWISE SHOWN OR NOTED. (PAY WT. BASED ON L14 LB./BOLT)

FOR 7/8" BOLTS, UNLESS SHOWN OTHERWISE:

- THE MINIMUM BOLT SPACING IS 3"
- THE MINIMUM DISTANCE FROM CENTER OF BOLT HOLE TO SHEARED OR THERMALLY CUT EDGE SHALL BE 1/2"
- THE MINIMUM DISTANCE FROM CENTER OF BOLT HOLE TO A ROLLED OR PLANED EDGE SHALL BE 1/8"

ALL STRUCTURAL STEEL IS ASTM A709 GRADE 50, Fy=50,000 psi. SEE SPECIFICATIONS FOR LOCATION OF WEATHERING STEEL AND CHARPY V-NOTCH TESTING REQUIREMENTS.

### WELDING

FILLET WELD SIZES SHALL BE IN ACCORDANCE WITH THE FOLLOW TABLE UNLESS NOTED OTHERWISE

| THE GREATER THICKNESS OF TWO PARTS JOINED "T" | FILLET WELD SIZE |
|-----------------------------------------------|------------------|
| $T \leq 1/2"$                                 | $3/16"$          |
| $1/2" < T \leq 3/4"$                          | $1/4"$           |
| $3/4" < T \leq 1 1/2"$                        | $5/16"$          |
| $1 1/2" < T \leq 2 1/4"$                      | $3/8"$           |
| $2 1/4" < T \leq 5"$                          | $1/2"$           |

IN ADDITION TO SIZES PROVIDED IN THE WELDING TABLE, THE MINIMUM FILLET WELD SIZE ON THE BOX GIRDER TOP AND BOTTOM FLANGES SHALL BE 3/16"

ALL AREAS OF GIRDER WEB WITHIN 12" OF A COMPLETE PENETRATION WELD SHALL BE SCANNED FOR LAMINATIONS USING APPROVED UT PROCEDURES.

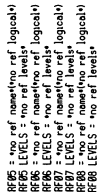
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|----------------------------------------------------|-----------|---------------|---------------|
| No.                                                | Date      | Revision      | By            |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |               |
| STRUCTURE B-32-202-0003                            |           |               |               |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | PG/NH         |
|                                                    |           | Plans Checked | NDH           |
| PROFILE GRADE LINES<br>AND GENERAL NOTES           |           |               | SHEET 4 OF 56 |

```

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RPF06 LEVELS = 'no ref levels'
RPF06 = 'no ref name'('no ref logical')
RPF06 LEVELS = 'no ref levels'
RPF07 = 'no ref name'('no ref logical')
RPF07 LEVELS = 'no ref levels'
RPF08 = 'no ref name'('no ref logical')
RPF08 LEVELS = 'no ref levels'

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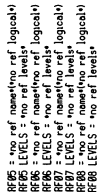
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[illegible]

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RPF06 LEVELS = 'no ref levels'
RPF07 = 'no ref name'('no ref logical')
RPF07 LEVELS = 'no ref levels'
RPF08 = 'no ref name'('no ref logical')
RPF08 LEVELS = 'no ref levels'

```



ABBREVIATIONS

|              |          |          |
|--------------|----------|----------|
| F—Fine       | M—Medium | C—Coarse |
| Ws—Weathered | So—Sound |          |

ABBREVIATIONS

|              |          |          |
|--------------|----------|----------|
| F—Fine       | M—Medium | C—Coarse |
| Ws—Weathered | So—Sound |          |

| MATERIAL SYMBOLS                                                                    |         |                                                                                     |      |                                                                                     |              |
|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--------------|
|  | Topsoil |  | Silt |  | Sandstone    |
|  | Sand    |  | Peat |  | Limestone    |
|  | Gravel  |  | Clay |  | Igneous Rock |

95/6=95 Blows for 6" Penetration

Probing taken with a 350# Wt.

Falling 18" on a 2" O.D. Point.

LEGEND OF PROBING

Probing No.

Sta.

Elevation

7 Average Blows Per Foot

Refusal 95/6

LEGEND OF BORING

Unconfined Strength Tons/Ft<sup>2</sup> → 7.7

Blows Per Ft. Using 140# Wt. Falling 30" →

Wash Sample →

Elev. →

Boring No. Sta. →

Sandy Gravel

F Boulders or Cobbles

Sand

Silty Clay

So Limestone

Shelby Tube — S.T. —

Ground Water Elevation

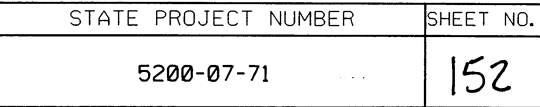
No Ground Water Observed Above This Elevation

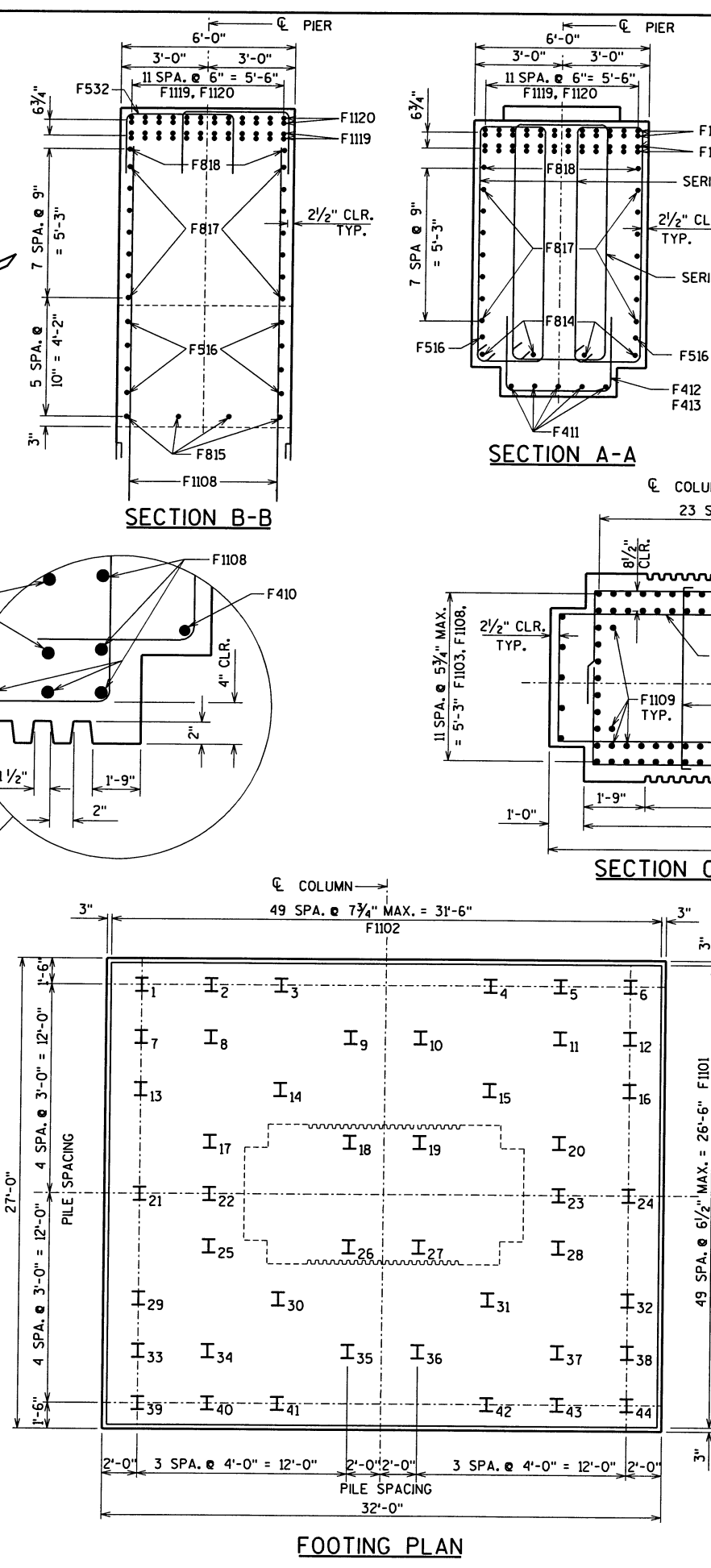
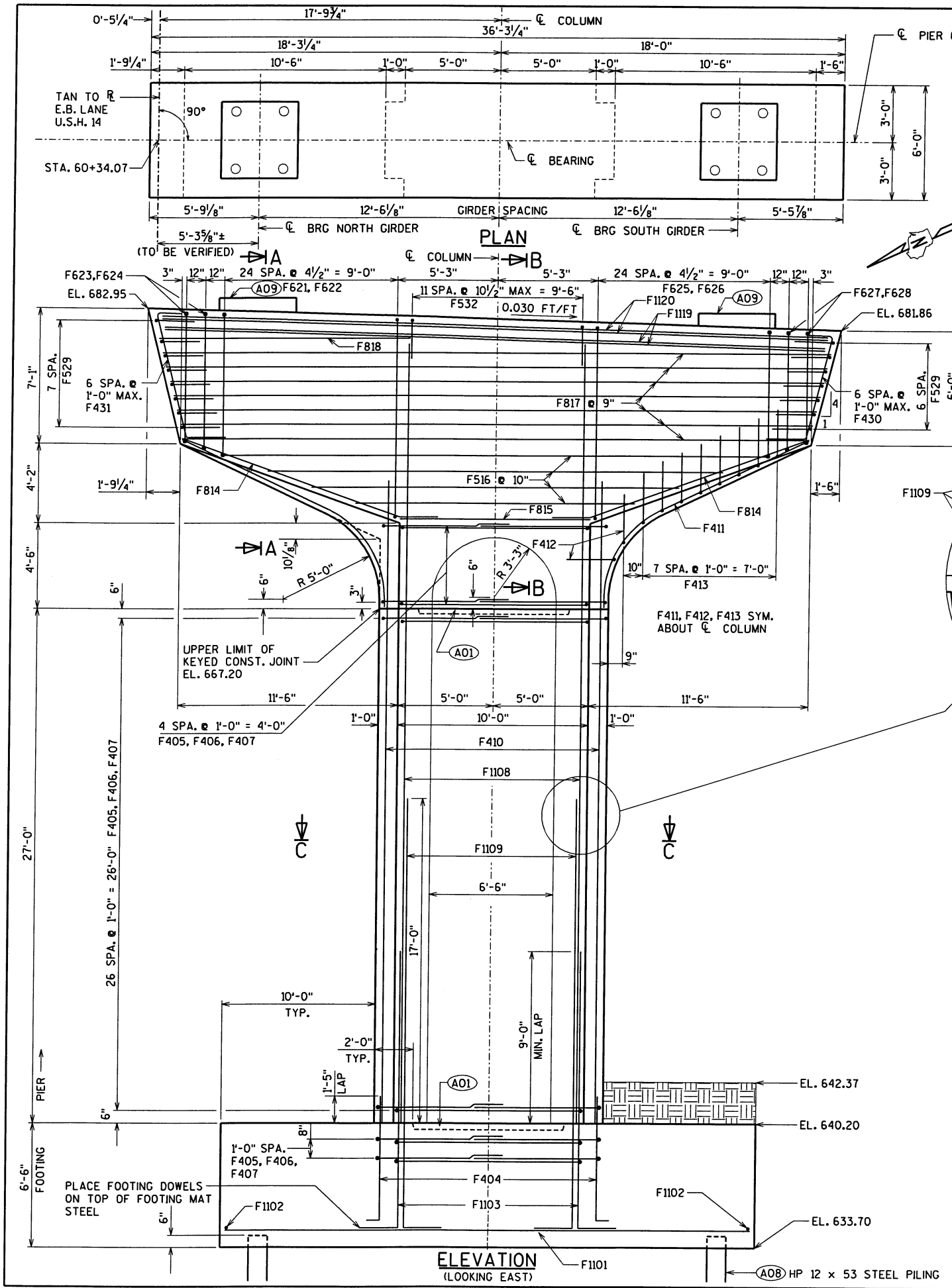
## SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

SUBSURFACE EXPLORATION FOR FOUNDATION  
DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Department of transportation does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

|                                                                            |      |             |               |                       |
|----------------------------------------------------------------------------|------|-------------|---------------|-----------------------|
| NO.                                                                        | DATE | REVISION    |               | BY                    |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS |      |             |               |                       |
| STRUCTURE B-32-202-0003                                                    |      |             |               |                       |
| CONST.<br>SPEC.                                                            | 1996 | DRAWN<br>BY | VJW/RIES      | PLANS<br>CK'D. B.L.B. |
| SUBSURFACE<br>EXPLORATION                                                  |      |             | SHEET 5 OF 56 |                       |





|                      |  |           |  |
|----------------------|--|-----------|--|
| STATE PROJECT NUMBER |  | SHEET NO. |  |
| 5200-07-71           |  | 153       |  |

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 1/2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(A01) KEYED CONSTRUCTION JOINT SHALL BE FORMED BY BEVELED KEYWAY 4" DEEP x 2'-0" x 8'-0". EXPOSED EDGES OF CONSTRUCTION JOINT SHALL BE FLUSH AND NOT BEVELED.

OPTIONAL KEYED CONSTRUCTION JOINT SHALL BE FORMED BY BEVELED KEYWAY 4" DEEP x 2'-0" x 8'-0". EXPOSED EDGES OF CONSTRUCTION JOINT SHALL BE FLUSH AND NOT BEVELED.

(A08) SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 130 FEET LONG & DRIVEN TO A MIN. BRG. VALUE OF 70 TONS PER PILE.

(A09) ELEVATION TO BE DETERMINED BY BEARING MANUFACTURER

604 Wilson Avenue  
Menomonee, Wisconsin 54751

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800-472-1372  
FAX 715-235-2757  
www.cedarcorp.com

|     |      |          |    |
|-----|------|----------|----|
| NO. | DATE | REVISION | BY |
|     |      |          |    |

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURES DESIGN SECTION

STRUCTURE B-32-202-0003

|              |      |          |     |            |     |
|--------------|------|----------|-----|------------|-----|
| CONST. SPEC. | 1996 | DRAWN BY | CAS | PLANS CKD. | DWM |
|--------------|------|----------|-----|------------|-----|

PIER 6

SHEET 7 OF 56

NOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR.  
THE FIRST DIGIT OF A THREE-DIGIT BAR MARK  
OR THE FIRST TWO DIGITS OF A FOUR-DIGIT  
BAR MARK SIGNIFIES THE BAR SIZE.

| BAR<br>MARK | COAT | NO.<br>REQ'D | LENGTH | BENT | BAR<br>SERIES | BUNDLE | LOCATION                     |
|-------------|------|--------------|--------|------|---------------|--------|------------------------------|
| F1101       |      | 50           | 31-6   |      |               |        | FOOTING                      |
| F1102       |      | 50           | 26-6   |      |               |        | FOOTING                      |
| F1103       |      | 68           | 17-6   | X    |               |        | FOOTING & COLUMN DOWELS      |
| F404        |      | 10           | 8-6    | X    |               |        | FOOTING & COLUMN DOWELS      |
| F405        |      | 68           | 16-1   | X    |               |        | FOOTING & COLUMN HORIZ.      |
| F406        |      | 68           | 15-11  | X    |               |        | FOOTING & COLUMN HORIZ.      |
| F407        |      | 102          | 5-11   | X    |               |        | FOOTING & COLUMN HORIZ. TIES |
| F1108       |      | 68           | 40-10  |      |               |        | COLUMN VERT.                 |
| F1109       |      | 48           | 25-0   | X    |               |        | FOOTING & COLUMN VERT.       |
| F410        |      | 10           | 33-9   |      |               |        | COLUMN VERT.                 |
| F411        |      | 10           | 15-0   | X    |               |        | COLUMN CAP AT ARCH           |
| F412        |      | 4            | 9-11   | X    |               |        | COLUMN CAP HORIZ. & VERT.    |
| F413        |      | 16           | 7-9    | X    |               |        | COLUMN CAP VERT.             |
| F814        |      | 8            | 15-8   | X    |               |        | CAP HORIZ.                   |
| F815        |      | 4            | 10-0   |      |               |        | CAP HORIZ.                   |
| F516        |      | 8            | 21-8   |      | ▲             |        | CAP HORIZ. SIDES             |
| F817        |      | 14           | 33-10  |      | ▲             |        | CAP HORIZ. SIDES             |
| F818        |      | 2            | 15-0   |      |               |        | CAP HORIZ. SIDES             |
| F1119       |      | 24           | 35-2   |      |               | X      | CAP HORIZ. TOP               |
| F1120       |      | 24           | 35-2   |      |               | X      | CAP HORIZ. TOP               |
| F621        |      | 50           | 22-10  | X    | ▲             |        | CAP STIRRUPS                 |
| F622        |      | 25           | 24-8   | X    | ▲             |        | CAP STIRRUPS                 |
| F623        |      | 4            | 18-10  | X    | ▲             |        | CAP STIRRUPS                 |
| F624        |      | 2            | 20-8   | X    | ▲             |        | CAP STIRRUPS                 |
| F625        |      | 50           | 21-8   | X    | ▲             |        | CAP STIRRUPS                 |
| F626        |      | 25           | 23-6   | X    | ▲             |        | CAP STIRRUPS                 |
| F627        |      | 4            | 16-11  | X    | ▲             |        | CAP STIRRUPS                 |
| F628        |      | 2            | 18-9   | X    | ▲             |        | CAP STIRRUPS                 |
| F529        |      | 14           | 7-6    | X    |               |        | CAP ENDS                     |
| F430        |      | 7            | 9-6    | X    |               |        | CAP ENDS                     |
| F431        |      | 7            | 10-6   | X    |               |        | CAP ENDS                     |
| F532        |      | 24           | 7-6    | X    |               |        | CAP STIRRUPS                 |
| F533        |      | 20           | 7-1    | X    |               |        | PEDESTAL STIRRUPS            |
| F434        |      | 8            | 3-     |      |               |        |                              |

**Cedar**  
corporation

604 Wilson Avenue  
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STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURES DESIGN SECTION

|                 |      |             |     |                |     |
|-----------------|------|-------------|-----|----------------|-----|
| CONST.<br>SPEC. | 1996 | DRAWN<br>BY | PKF | PLANS<br>CK'D. | DWM |
|-----------------|------|-------------|-----|----------------|-----|

|          |               |
|----------|---------------|
| PIER 6   | SHEET 8 OF 36 |
| SEE PAGE |               |

|         |  |  |
|---------|--|--|
| DETAILS |  |  |
|---------|--|--|

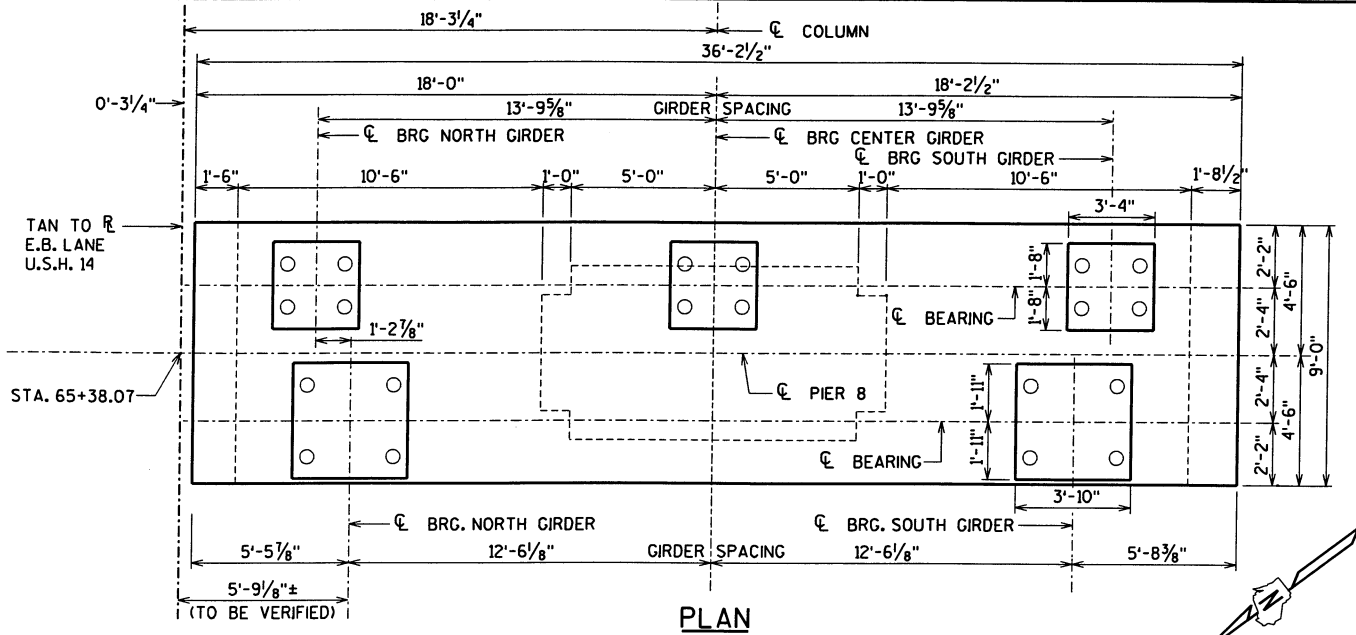




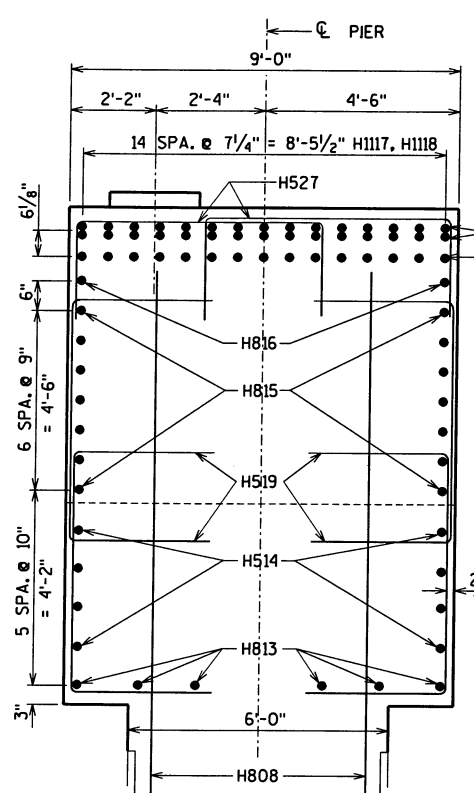


BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 1/2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

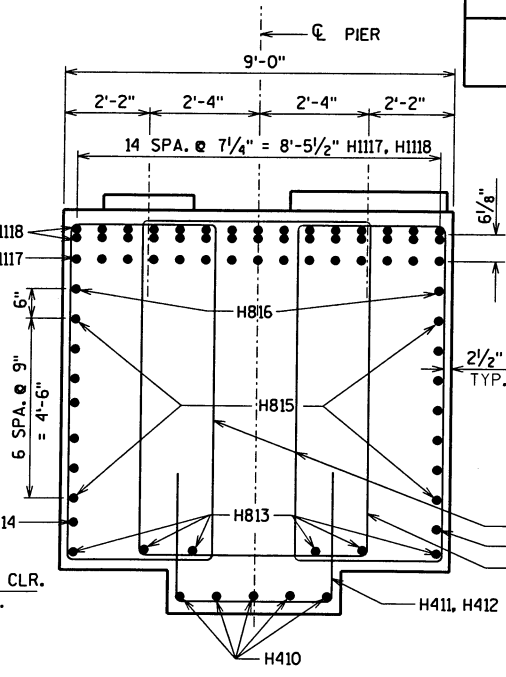
- (A01) KEYED CONSTRUCTION JOINT SHALL BE FORMED BY BEVELED KEYWAY 4" DEEP x 2'-0" x 8'-0". EXPOSED EDGES OF CONSTRUCTION JOINT SHALL BE FLUSH AND NOT BEVELED.
- (A08) SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 140 FEET LONG & DRIVEN TO A MIN. BRC. VALUE OF 70 TONS PER PILE. (REFER TO SPECIAL PROVISIONS FOR PREBORING.)
- (A09) ELEVATION TO BE DETERMINED BY BEARING MANUFACTURER



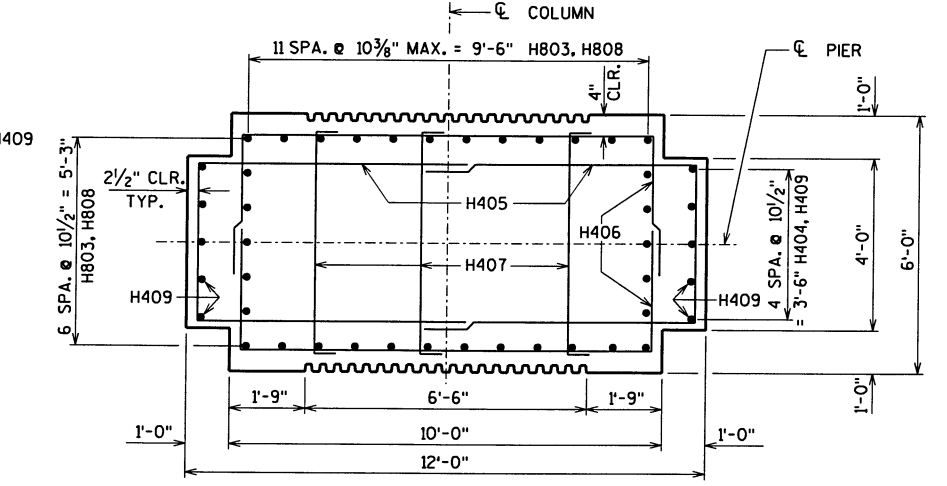
PLAN



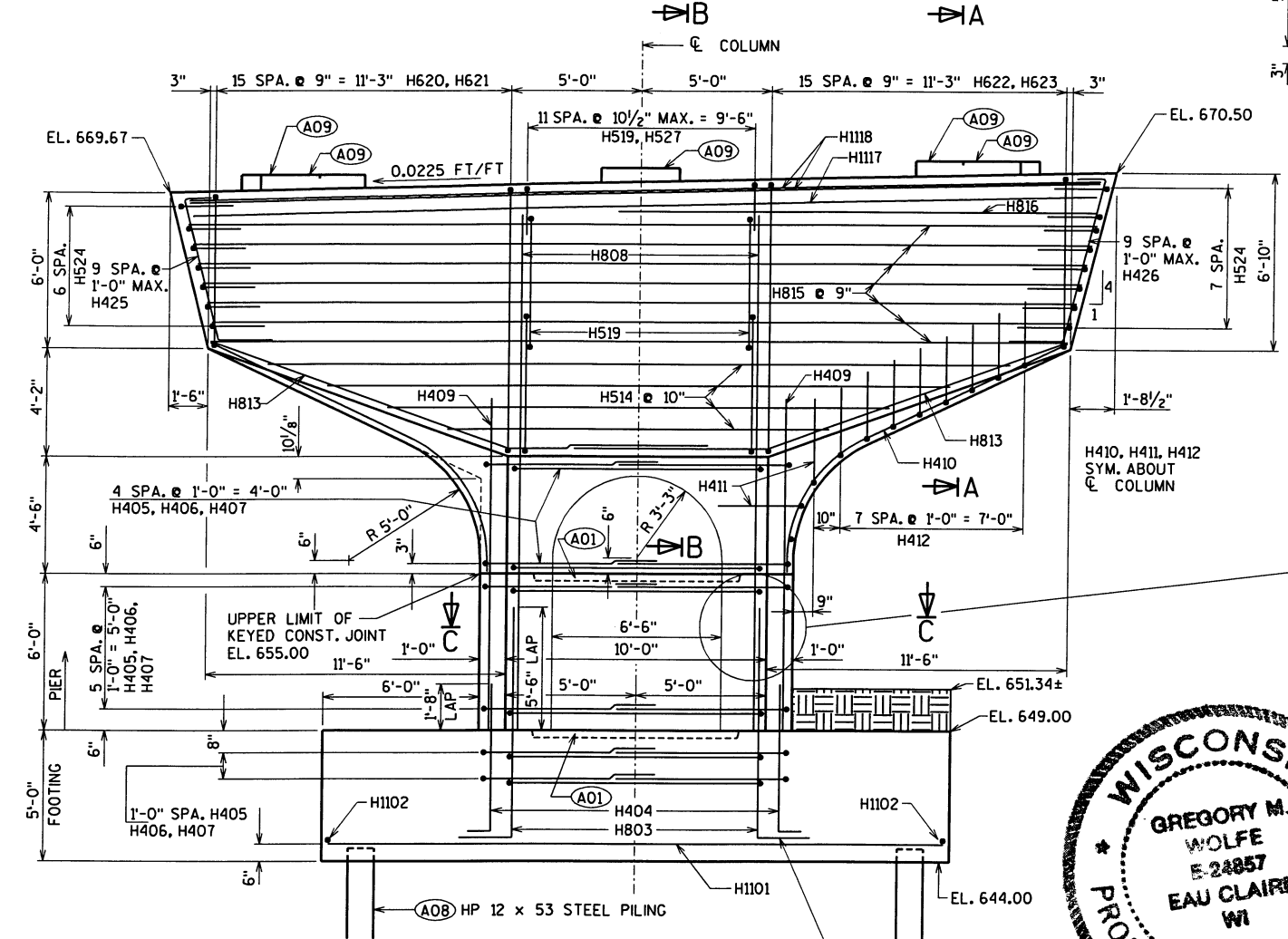
SECTION B-B



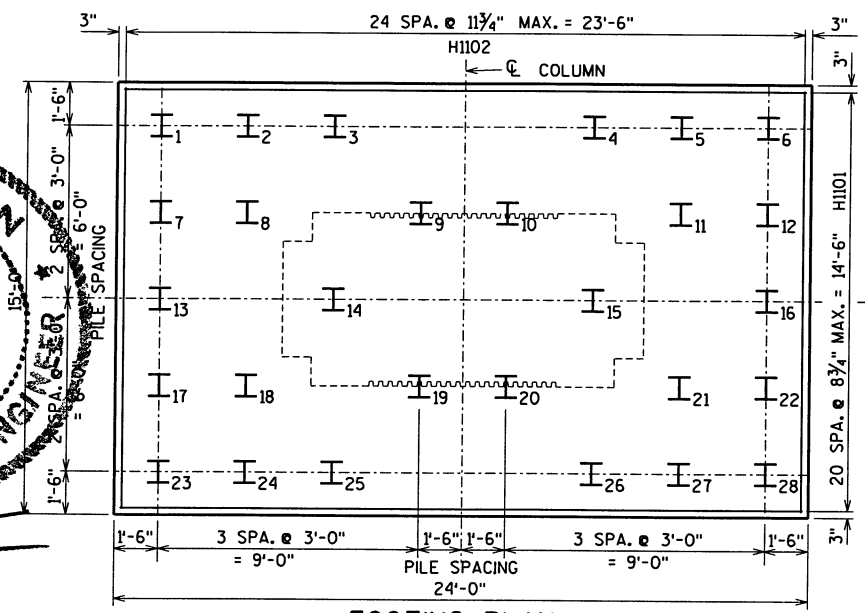
SECTION A-A



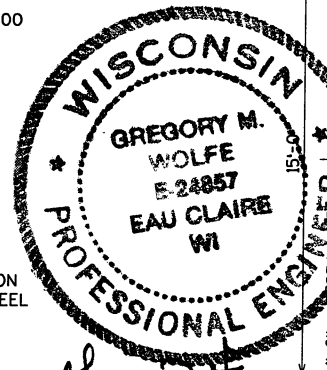
SECTION C-C THRU COLUMN



ELEVATION  
(LOOKING EAST)



FOOTING PLAN



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| NO.                                                                             | DATE | REVISION    | BY  |
|---------------------------------------------------------------------------------|------|-------------|-----|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION<br>STRUCTURES DESIGN SECTION |      |             |     |
| STRUCTURE B-32-202-0003                                                         |      |             |     |
| CONST. SPEC.                                                                    | 1996 | DRAWN BY    | PKF |
| PIER 8                                                                          |      | PLANS CK'D. | DWM |
| SHEET 11 OF 56                                                                  |      |             |     |

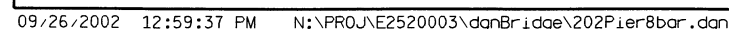
158

NOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR.  
THE FIRST DIGIT OF A THREE-DIGIT BAR MARK  
OR THE FIRST TWO DIGITS OF A FOUR-DIGIT  
BAR MARK SIGNIFIES THE BAR SIZE.

[illegible]

|                                                                                                                             |      |                                                                                                              |                                  |
|-----------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|----------------------------------|
|  <b>Cedar</b><br>corporation           |      | 604 Wilson Avenue<br>Menomonee, Wisconsin 54751                                                              |                                  |
| engineers - architects - planners - environmental specialists<br>land surveyors - landscape architects - interior designers |      | 715-235-9081<br>800-472-7372<br>FAX 715-235-2727<br><a href="http://www.cedarcorp.com">www.cedarcorp.com</a> |                                  |
| NO.                                                                                                                         | DATE | REVISION                                                                                                     | BY                               |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION<br>STRUCTURES DESIGN SECTION                                             |      |                                                                                                              |                                  |
| STRUCTURE B-32-202-0003                                                                                                     |      |                                                                                                              |                                  |
| CONST.<br>SPEC.                                                                                                             | 1996 | DRAWN<br>BY                                                                                                  | PKF      PLANS<br>CK'D.      DWM |
| PIER 8<br>DETAILS                                                                                                           |      | SHEET 12 OF 56                                                                                               |                                  |

FILE= DGNBRIDGE 202PIER8BAR  
SCALE = 4



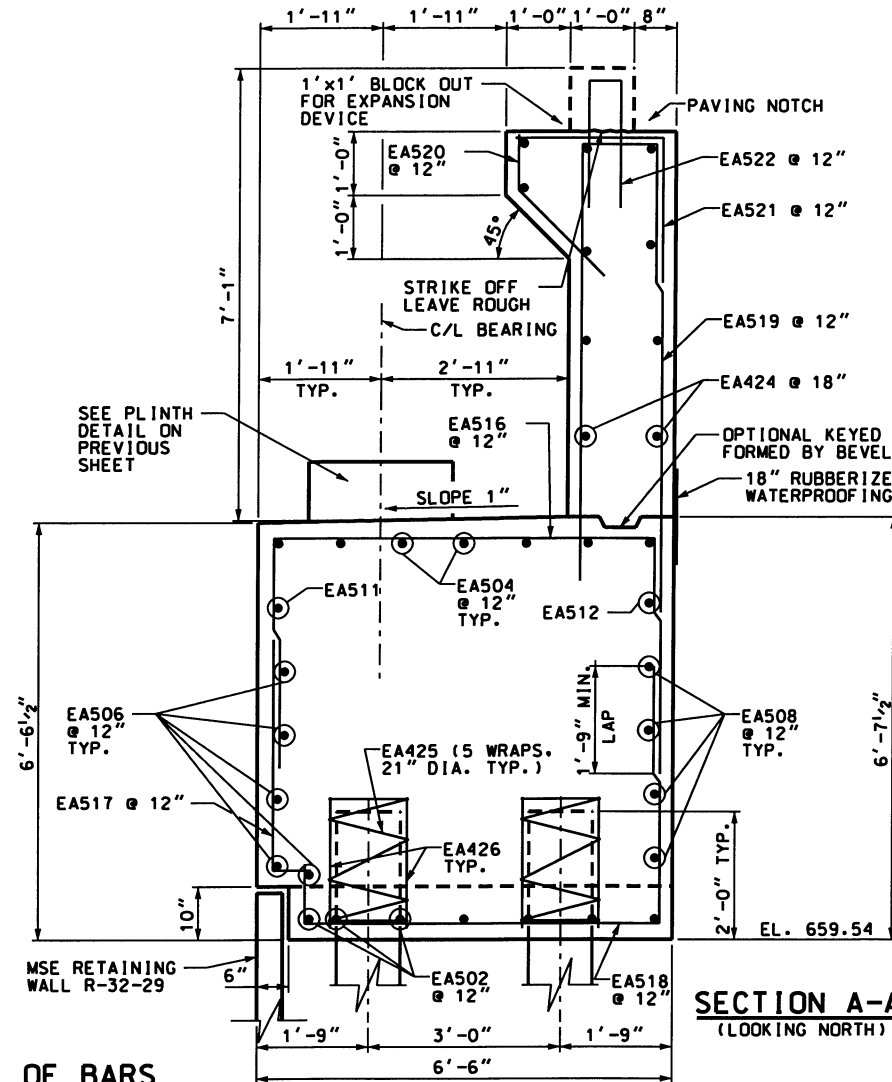




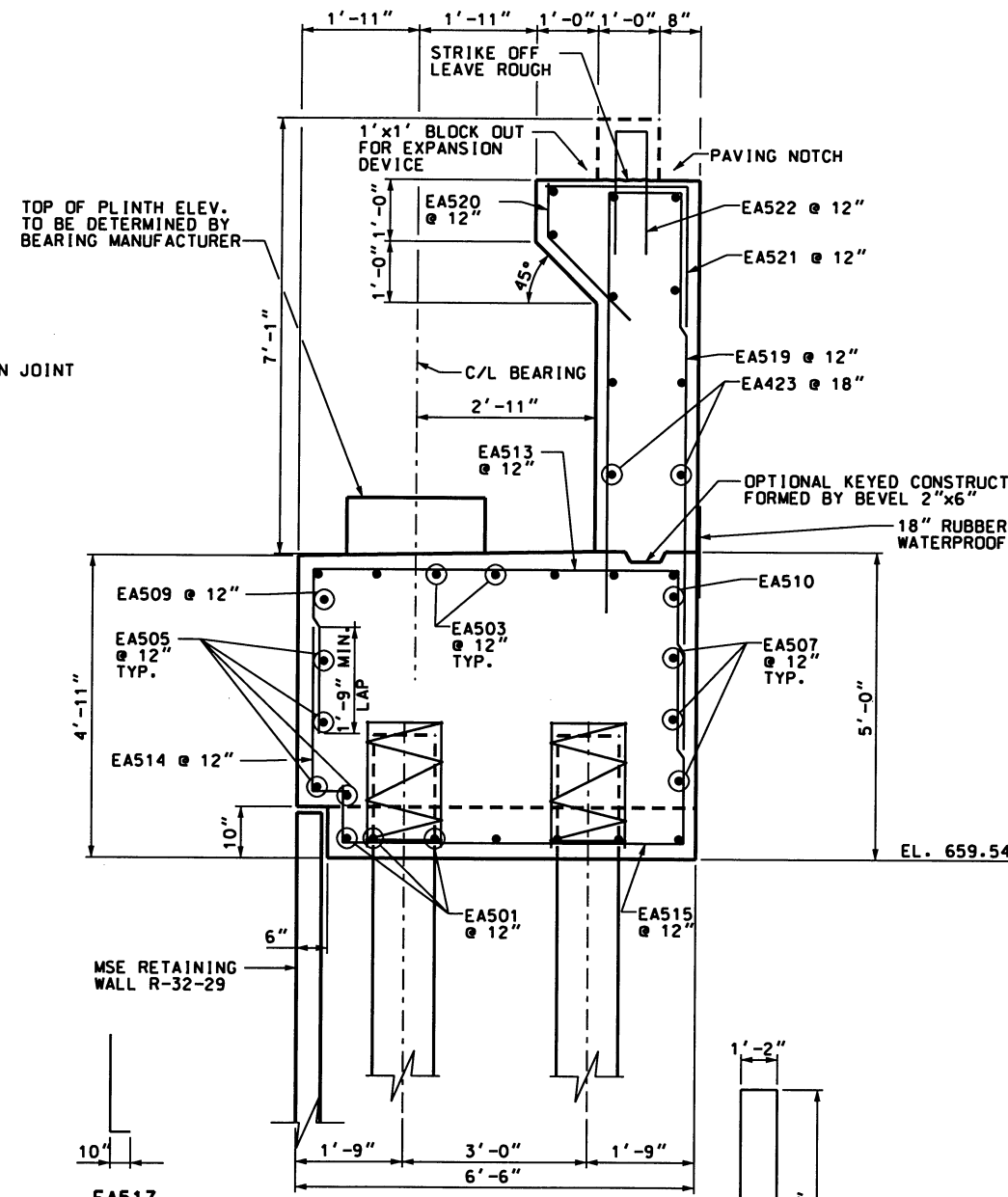




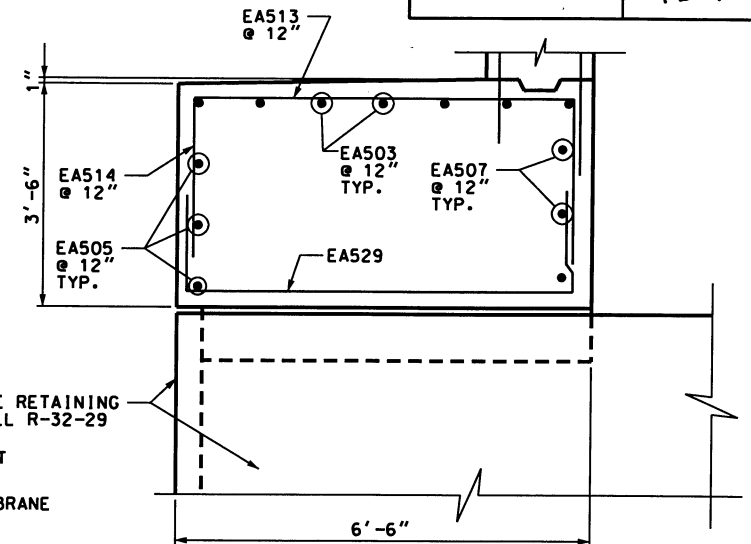




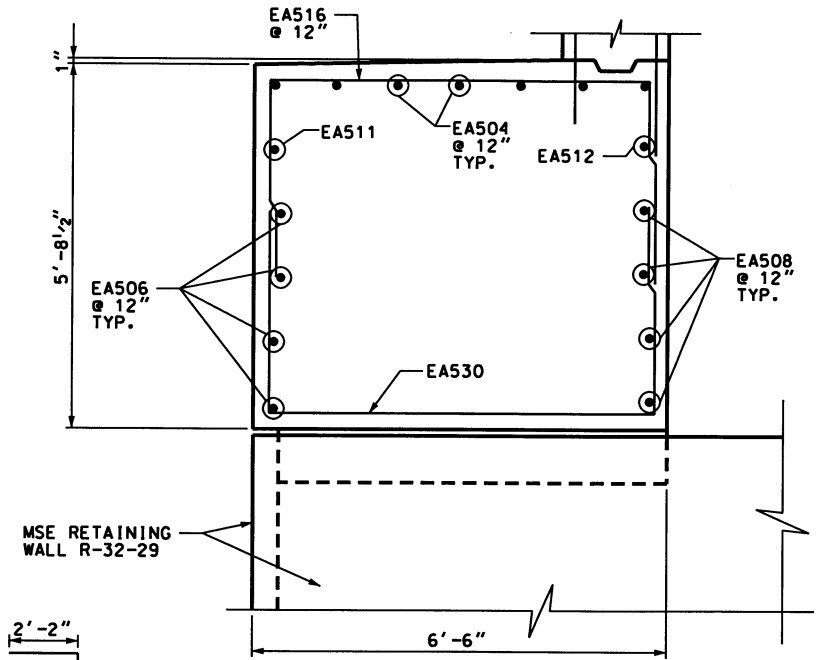
**SECTION A-A**  
(LOOKING NORTH)



**SECTION B-B**  
(LOOKING NORTH)



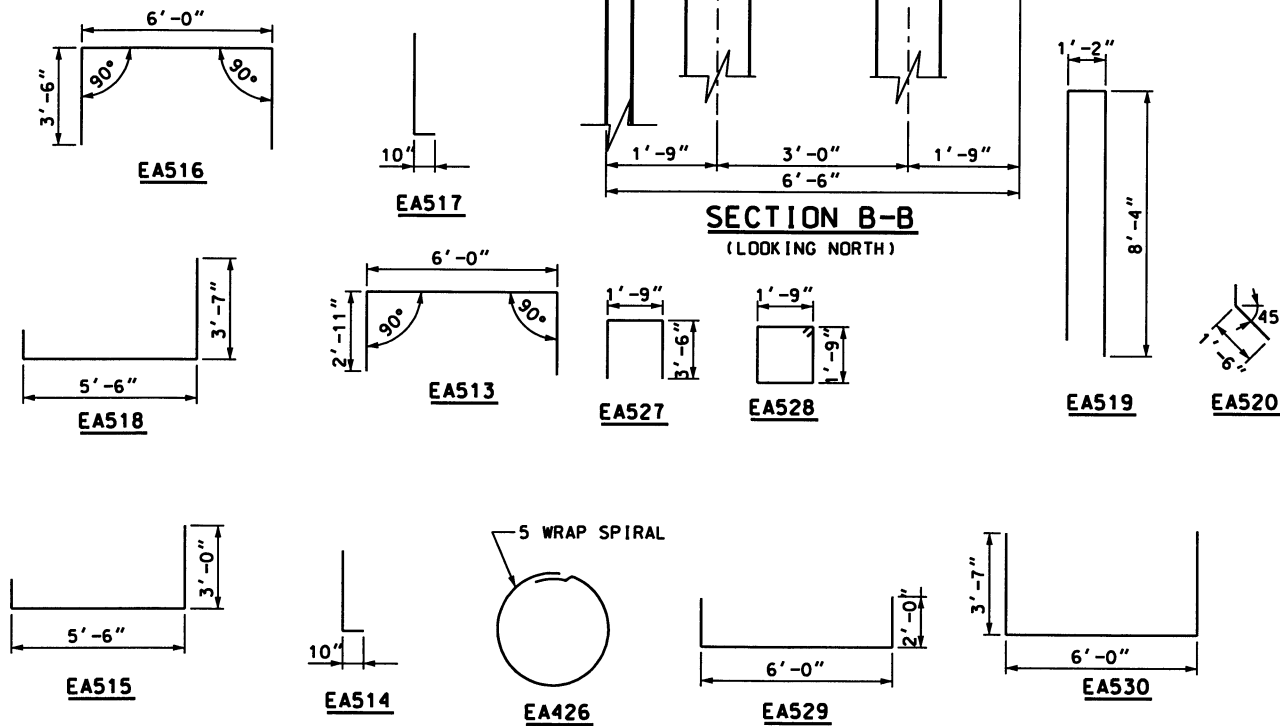
**NORTH END DETAIL**



**SOUTH END DETAIL**

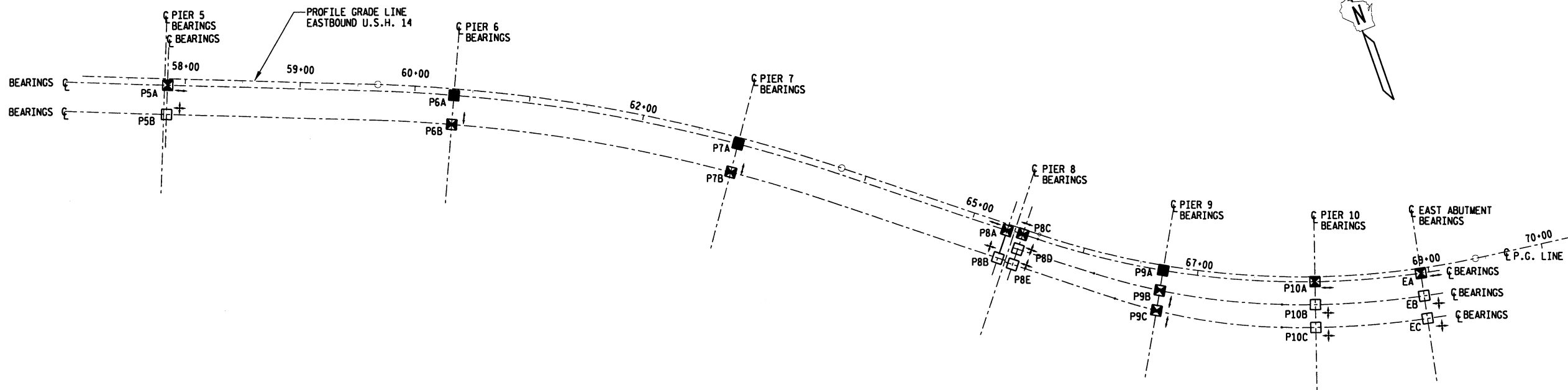
**BILL OF BARS**

| BAR MARK | COAT | NO. | LENGTH  | BENT | LOCATION                       |
|----------|------|-----|---------|------|--------------------------------|
| EA501    |      | 7   | 21'-10" |      | BOTTOM FACE OF STEM - LONG.    |
| EA502    |      | 7   | 35'-9"  |      | BOTTOM FACE OF STEM - LONG.    |
| EA503    |      | 7   | 21'-10" |      | TOP FACE OF STEM - LONG.       |
| EA504    |      | 7   | 36'-9"  |      | TOP FACE OF STEM - LONG.       |
| EA505    |      | 4   | 21'-10" |      | FRONT FACE OF STEM - HOR.      |
| EA506    |      | 5   | 36'-9"  |      | FRONT FACE OF STEM - HOR.      |
| EA507    |      | 3   | 21'-10" |      | BACK FACE OF STEM - HOR.       |
| EA508    |      | 4   | 36'-9"  |      | BACK FACE OF STEM - HOR.       |
| EA509    |      | 1   | 18'-1"  |      | FRONT FACE OF STEM - HOR.      |
| EA510    |      | 1   | 19'-11" |      | BACK FACE OF STEM - HOR.       |
| EA511    |      | 1   | 26'-9"  |      | FRONT FACE OF STEM - HOR.      |
| EA512    |      | 1   | 28'-10" |      | BACK FACE OF STEM - HOR.       |
| EA513    |      | 32  | 11'-9"  | X    | TOP FACE - TRANS.              |
| EA514    |      | 31  | 3'-8"   | X    | FRONT FACE - VERT.             |
| EA515    |      | 31  | 9'-3"   | X    | BOTTOM FACE - TRANS.           |
| EA516    |      | 25  | 12'-11" | X    | TOP FACE - TRANS.              |
| EA517    |      | 24  | 4'-3"   | X    | FRONT FACE - VERT.             |
| EA518    |      | 24  | 8'-10"  | X    | BOTTOM FACE - TRANS.           |
| EA519    | X    | 57  | 17'-2"  | X    | BACKWALL STIRRUP               |
| EA520    | X    | 57  | 2'-1"   |      | FRONT FACE OF BACKWALL - VERT. |
| EA521    | X    | 57  | 3'-10"  |      | BACKWALL - LATERAL TIE         |
| EA522    | X    | 44  | 3'-10"  |      | BACKWALL STIRRUP               |
| EA423    | X    | 10  | 21'-3"  |      | BACKWALL - HOR.                |
| EA424    | X    | 10  | 36'-6"  |      | BACKWALL - HOR.                |
| EA425    |      | 52  | 2'-3"   |      | AT EACH PILE                   |
| EA426    |      | 26  | 28'-0"  | X    | AT EACH PILE                   |
| EA527    | X    | 18  | 6'-11"  | X    | AT EACH PLINTH                 |
| EA528    | X    | 6   | 7'-3"   | X    | CLOSED STIRRUP AT PLINTH       |
| EA529    |      | 1   | 9'-9"   | X    | NORTH CORNER OF STEM           |
| EA530    |      | 1   | 13'-1"  | X    | SOUTH CORNER OF STEM           |



**BAR BENDING DIAGRAM**

*Yakov N. Nenaydykh*  
04/26/02  
PROFESSIONAL ENGINEER  
WISCONSIN  
YAKOV N. NENAYDYKH  
E-30810  
Milwaukee, WI



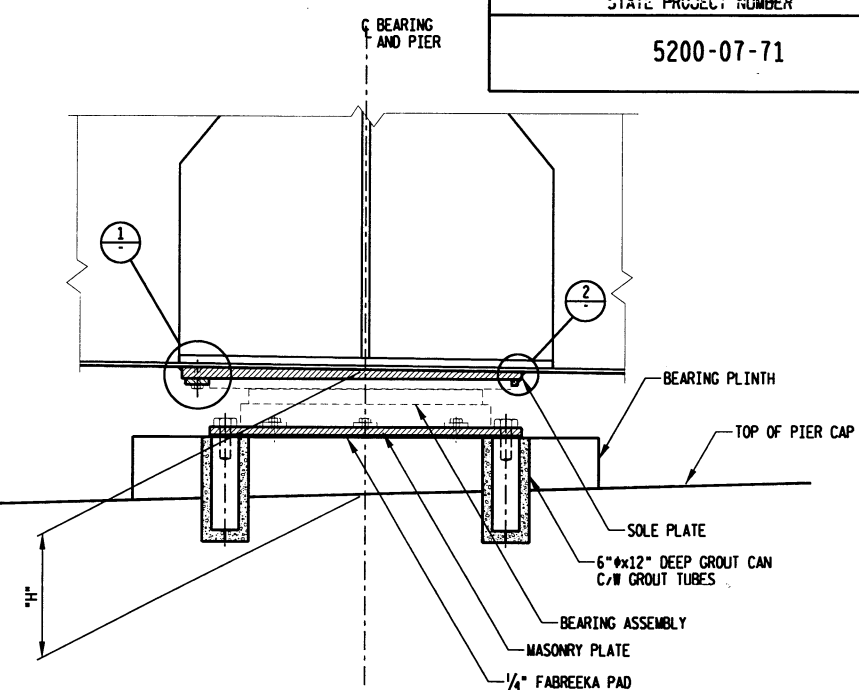
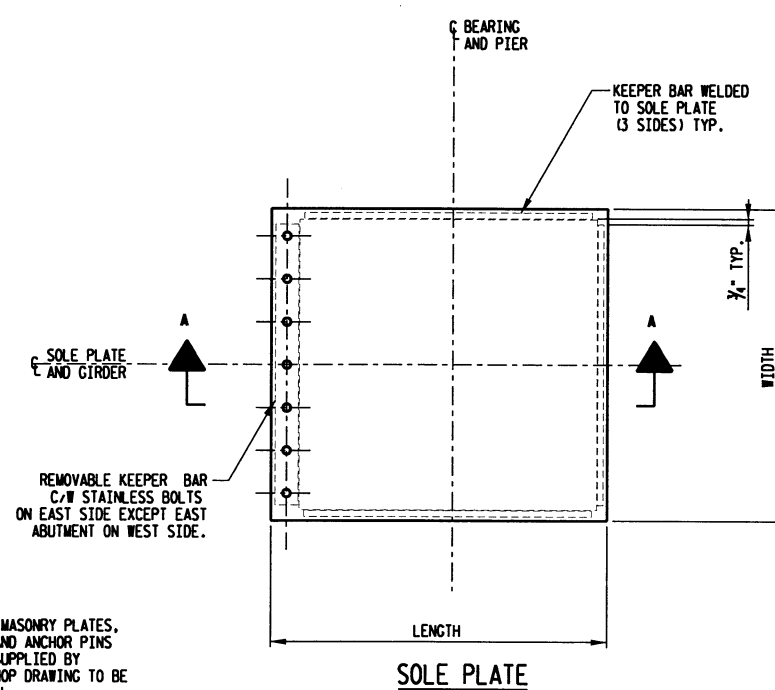
PRELIMINARY BEARING SERVICE LOADS:

| BEARING TYPE | BEARING MARK | VERTICAL LOADS (KIPS) |      |      | LONGITUDINAL BRAKING FORCE (KIPS) | LONGITUDINAL TEMP. FORCE (KIPS) | * LATERAL WIND FORCE (KIPS) | LONGITUDINAL MOVEMENT (IN) | LATERAL MOVEMENT (IN) |
|--------------|--------------|-----------------------|------|------|-----------------------------------|---------------------------------|-----------------------------|----------------------------|-----------------------|
|              |              | DEAD LOAD             | LIVE |      |                                   |                                 |                             |                            |                       |
|              |              |                       | MAX. | MIN. |                                   |                                 |                             |                            |                       |
| UNI          | P5A          | 485                   | 206  | -19  | -                                 | -                               | -                           | 5/16                       | 0                     |
| MULTI        | P5B          | 485                   | 206  | -12  | -                                 | -                               | 78                          | 5/16                       | 3/8                   |
| FIX          | P6A          | 1324                  | 429  | -26  | 9                                 | 160                             | -                           | 0                          | 0                     |
| UNI          | P6B          | 1476                  | 420  | -21  | 9                                 | 160                             | 215                         | 0                          | 3/8                   |
| FIX          | P7A          | 1299                  | 429  | -28  | 18                                | 160                             | -                           | 0                          | 0                     |
| UNI          | P7B          | 1515                  | 428  | -17  | 18                                | 160                             | 215                         | 0                          | 3/8                   |
| UNI          | P8A          | 503                   | 204  | -22  | -                                 | -                               | -                           | 4                          | 0                     |
| MULTI        | P8B          | 479                   | 203  | -11  | -                                 | -                               | 78                          | 4                          | 3/8                   |
| UNI          | P8C          | 194                   | 145  | -9   | -                                 | -                               | 28                          | 1 1/8                      | 0                     |
| MULTI        | P8D          | 219                   | 109  | -7   | -                                 | -                               | -                           | 1 1/8                      | 3/8                   |
| MULTI        | P8E          | 229                   | 136  | -14  | -                                 | -                               | -                           | 1 1/8                      | 3/8                   |
| FIX          | P9A          | 626                   | 186  | -6   | 9                                 | -                               | 82                          | 0                          | 0                     |
| UNI          | P9B          | 665                   | 196  | -6   | 9                                 | -                               | -                           | 0                          | 3/8                   |
| UNI          | P9C          | 657                   | 200  | -7   | 9                                 | -                               | -                           | 0                          | 3/8                   |
| UNI          | P10A         | 481                   | 167  | -8   | -                                 | -                               | 64                          | 1 1/8                      | 0                     |
| MULTI        | P10B         | 510                   | 174  | -12  | -                                 | -                               | -                           | 1 1/8                      | 3/8                   |
| MULTI        | P10C         | 502                   | 178  | -16  | -                                 | -                               | -                           | 1 1/8                      | 3/8                   |
| UNI          | EA           | 127                   | 115  | -12  | -                                 | -                               | 18                          | 2 3/4                      | 0                     |
| MULTI        | EB           | 139                   | 104  | -10  | -                                 | -                               | -                           | 2 3/4                      | 3/8                   |
| MULTI        | EC           | 140                   | 114  | -15  | -                                 | -                               | -                           | 2 3/4                      | 3/8                   |

\*NOTE: ONLY BASIC WIND ON STRUCTURE PROVIDED

|                                                    |           |                 |                      |
|----------------------------------------------------|-----------|-----------------|----------------------|
| No.                                                | Date      | Revision        | By                   |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                 |                      |
| STRUCTURE B-32-202-0003                            |           |                 |                      |
| Const. Spec.                                       | WIS. 1996 | Drawn By<br>PSG | Plans Checked<br>NDH |
| BEARING ARRANGEMENT                                |           |                 | SHEET 19 OF 56       |

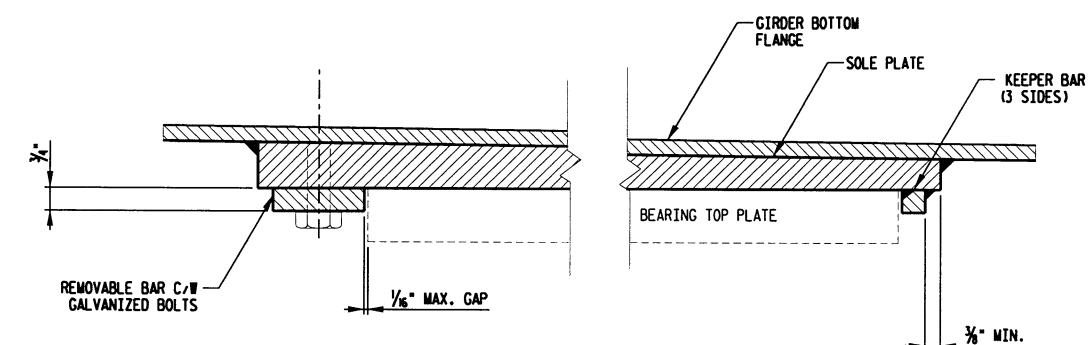
SCALE: PLOTTER  
No Pen Table  
DATE: 09/26/2002  
FILE: 5200-07-71-165.DWG  
DWN



NOTE:  
BEARING ASSEMBLIES, MASONRY PLATES,  
SOLE PLATES, BOLTS AND ANCHOR PINS  
TO BE DESIGNED AND SUPPLIED BY  
BEARING SUPPLIER. SHOP DRAWING TO BE  
PROVIDED FOR APPROVAL.

SOLE PLATE

**SECTION A-A**

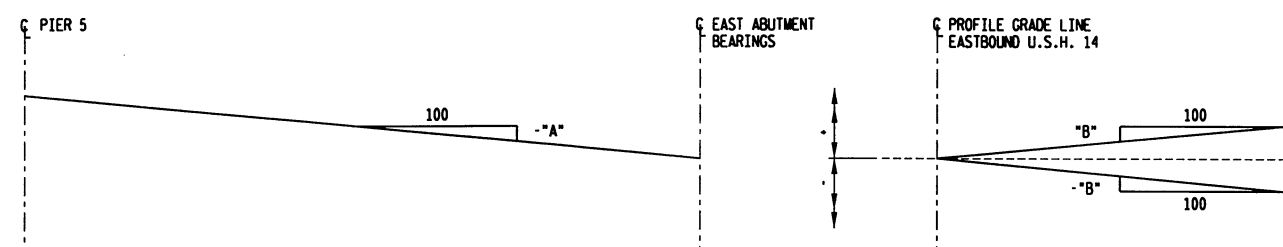


DETAIL 1

DETAIL 2

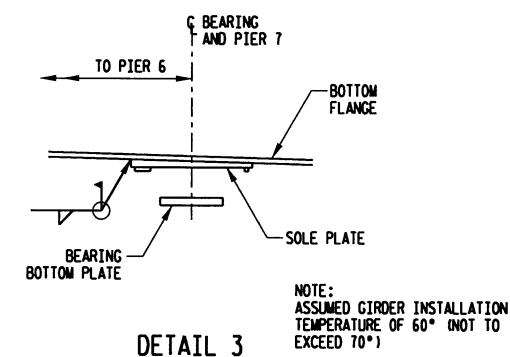
NOTES:

1. PLATE AND WELD SIZES SHOWN ARE MINIMUM.  
BEARING DESIGNER TO SPECIFY REQUIRED SIZES.
2. ALL BOLTS FOR BEARING INSTALLATION TO BE GALVANIZED.



### SOLE PLATE SLOPE

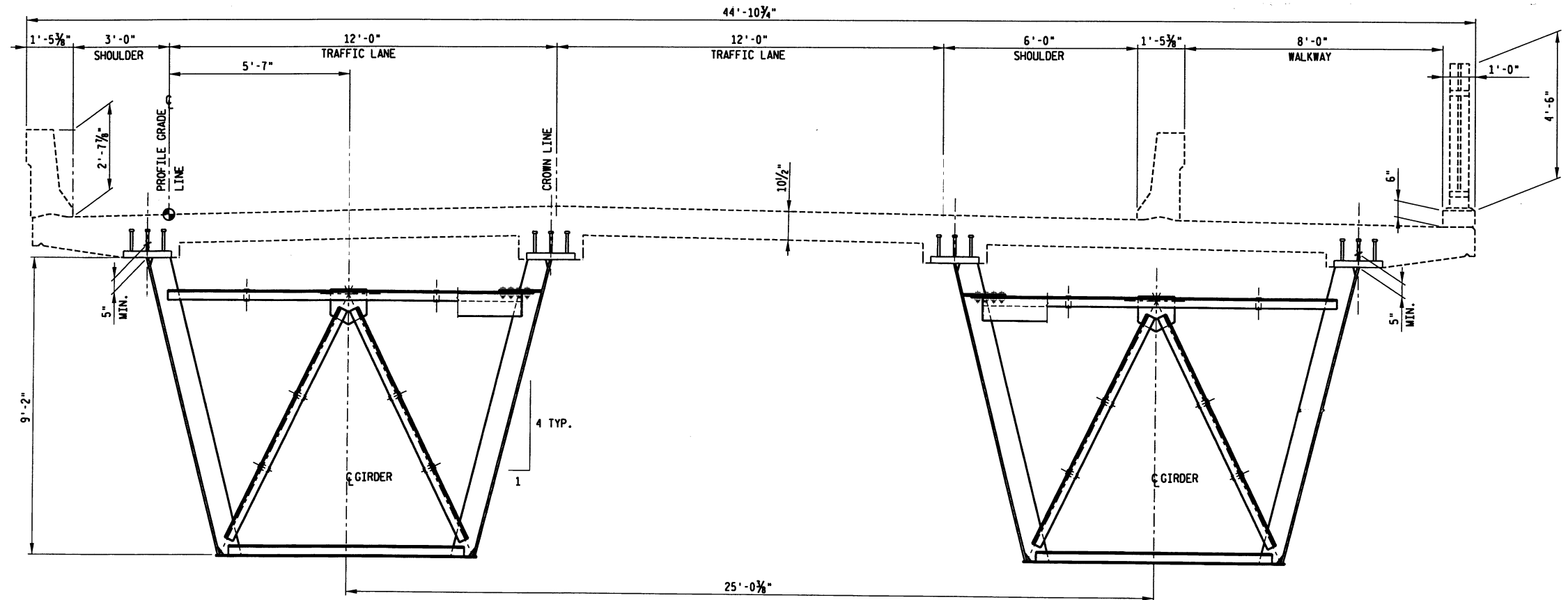
TRANSVERSE  
LOOKING UP CHAINAGE



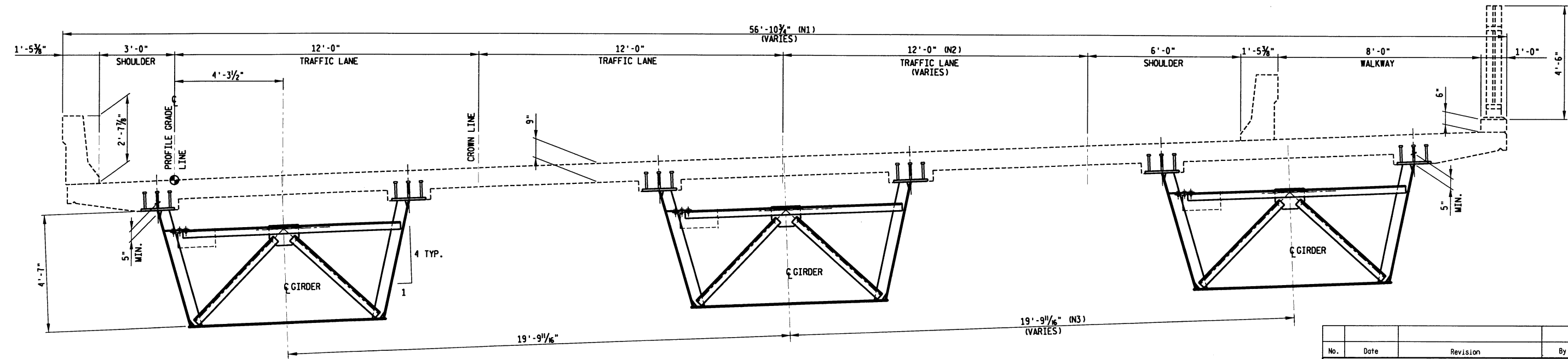
NOTE:  
ASSUMED GIRDER INSTALLATION  
TEMPERATURE OF 60° (NOT TO  
EXCEED 70°)

|                                                    |           |                  |                |
|----------------------------------------------------|-----------|------------------|----------------|
|                                                    |           |                  |                |
| No.                                                | Date      | Revision         | By             |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                  |                |
| STRUCTURE B-32-202-0003                            |           |                  |                |
| Const.<br>Spec.                                    | WIS. 1996 | Drawn<br>By      | PSG            |
|                                                    |           | Plans<br>Checked | NDH            |
| BEARING DETAILS                                    |           |                  | SHEET 20 OF 56 |

|                      |           |
|----------------------|-----------|
| STATE PROJECT NUMBER | SHEET NO. |
| 5200-07-71           | 167       |



TYPICAL TWO GIRDER DECK SECTION AT MID SPAN

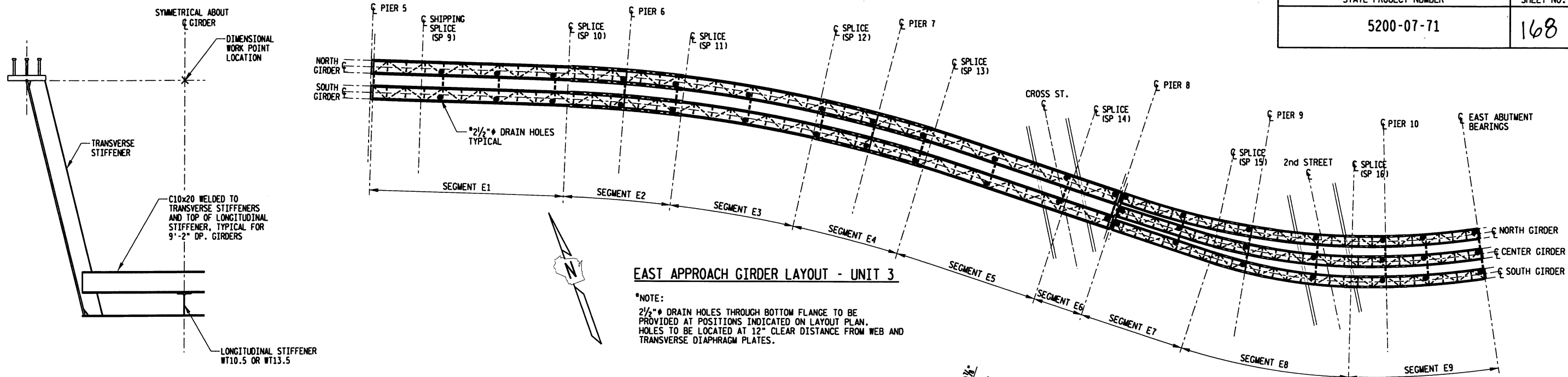


TYPICAL THREE GIRDER DECK SECTION AT MIDSPAN

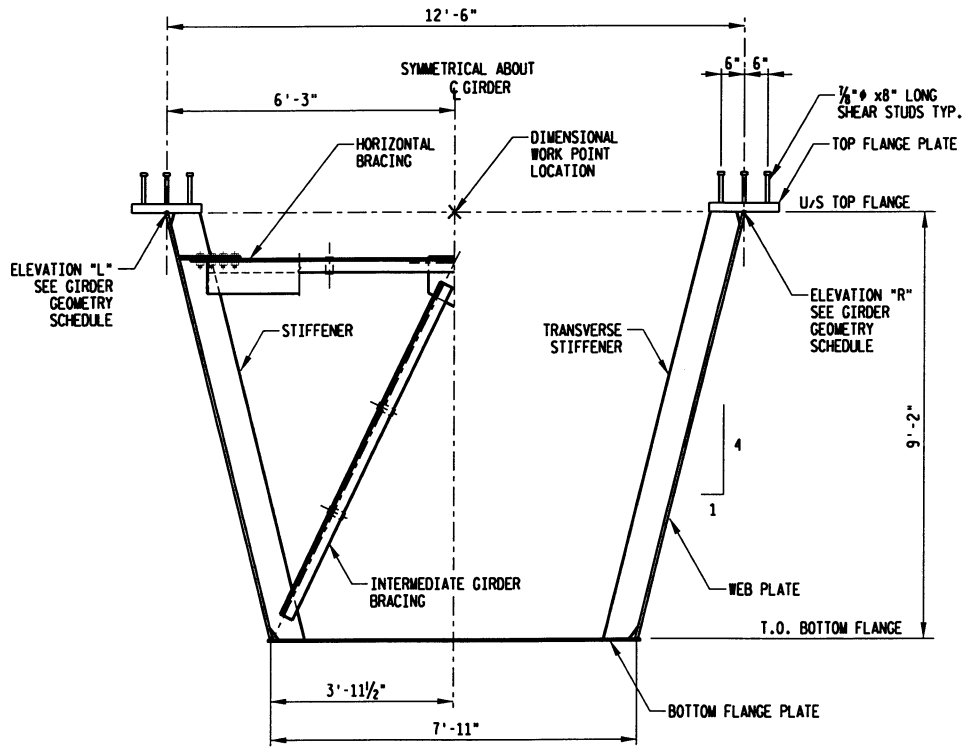
NOTE:  
IN TAPERED PORTION OF DECK THE  
FOLLOWING DIMENSIONS VARY:  
N1. 44'-10 3/4" TO 56'-10 3/4"  
N2. 0'-0" TO 12'-0"  
N3. 13'-9 11/16" TO 19'-9 11/16"

|                                                    |           |               |                |
|----------------------------------------------------|-----------|---------------|----------------|
| No.                                                | Date      | Revision      | By             |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | PSG            |
|                                                    |           | Plans Checked | NDH            |
| TYPICAL CROSS SECTIONS                             |           |               | SHEET 21 OF 56 |

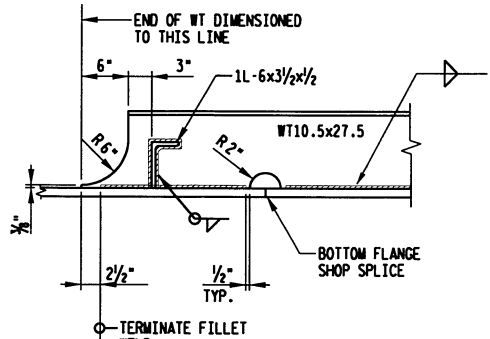
SCALE: 1" = 10'-0"  
PLOTTER: No Pen Table  
DATE: 09/26/2002  
FILE: 5200-07-71.DGN



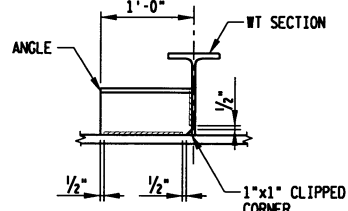
TYPICAL SECTION AT  
LONGITUDINAL STIFFENER  
LOOKING UP CHAINAGE



TYPICAL 9'-2" GIRDER  
SECTION A-A  
LOOKING UP CHAINAGE

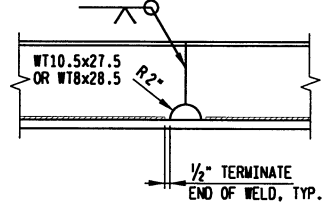


ELEVATION

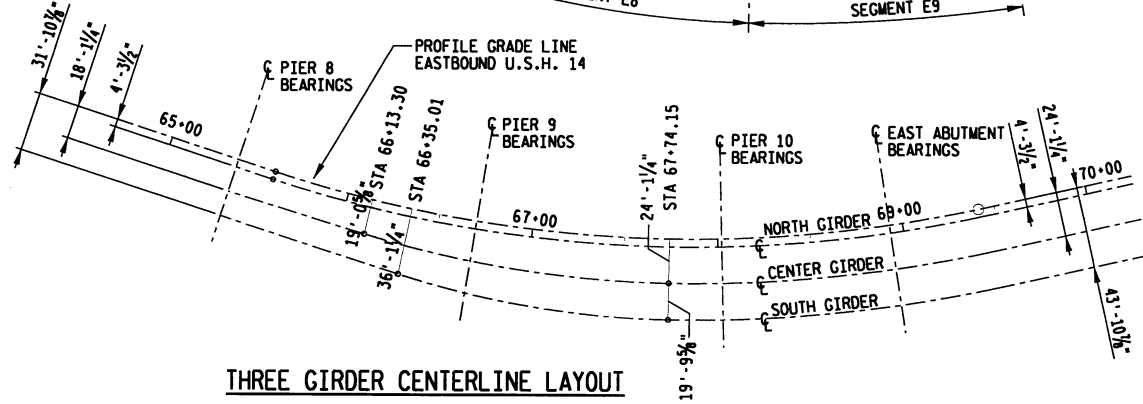


SECTION

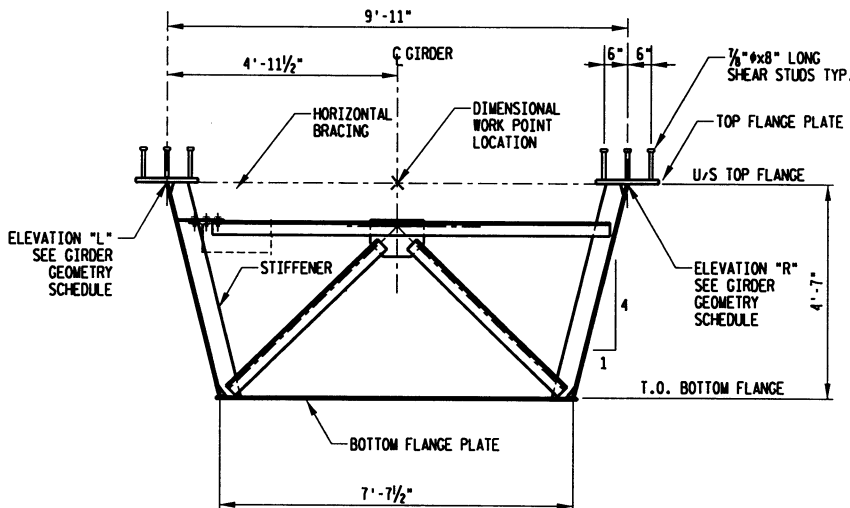
BOTTOM FLANGE LONGITUDINAL  
STIFFENER TERMINATION DETAIL



OPTIONAL BOTTOM FLANGE  
LONGITUDINAL STIFFENER SPLICE



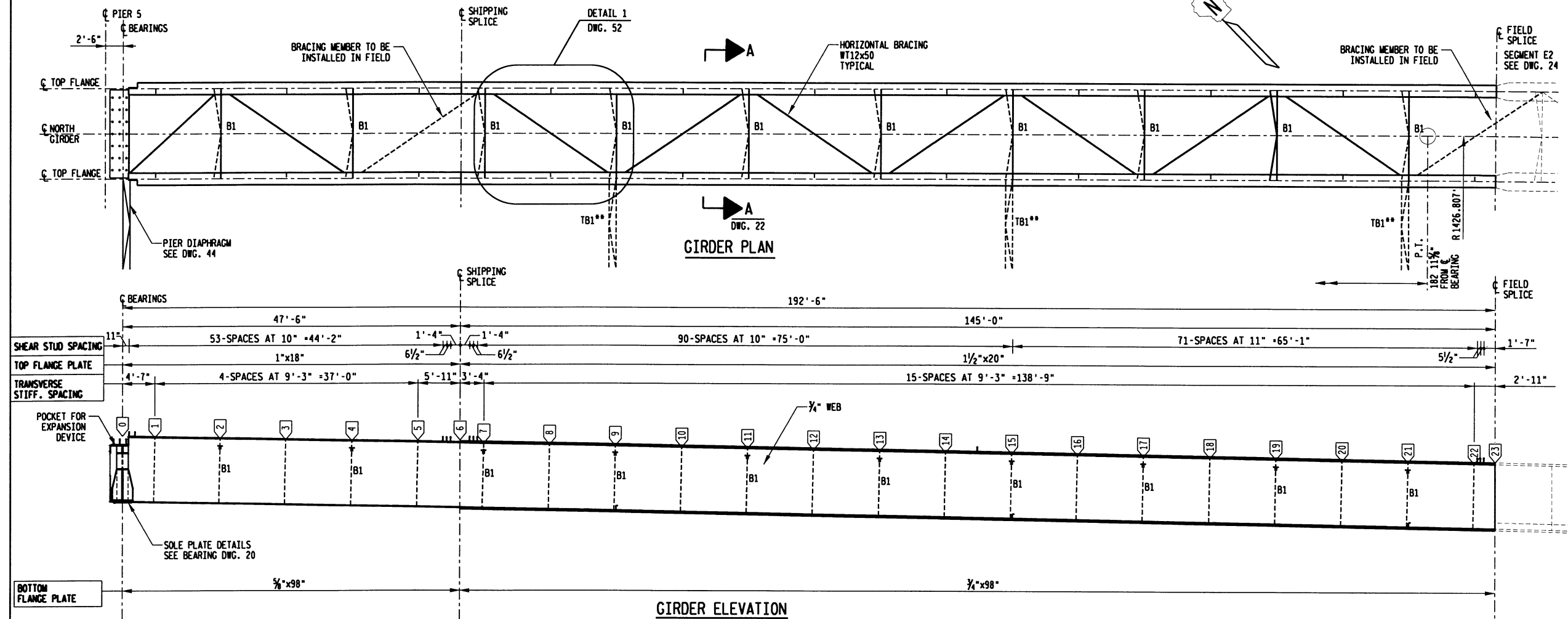
THREE GIRDER CENTERLINE LAYOUT



TYPICAL 4'-7" GIRDER  
SECTION B-B  
LOOKING UP CHAINAGE

| No.                                                | Date      | Revision      | By             |
|----------------------------------------------------|-----------|---------------|----------------|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | PSG            |
|                                                    |           | Plans Checked | NDH            |
| GIRDER LAYOUT KEY PLAN<br>TYPICAL SECTIONS         |           |               | SHEET 22 OF 56 |

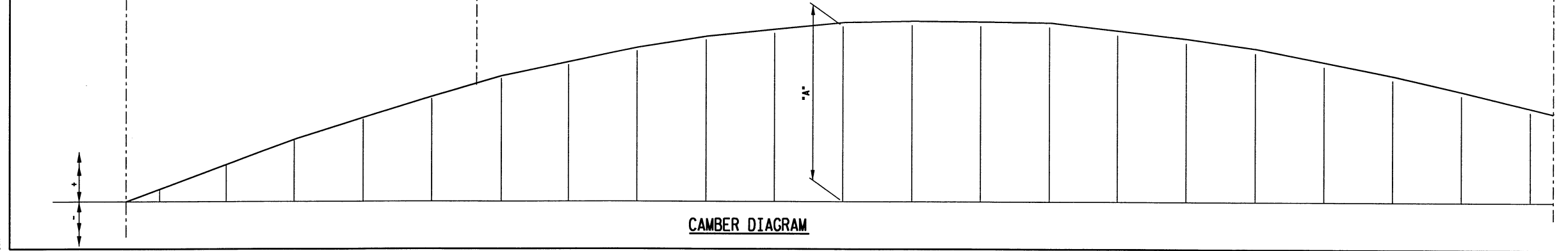
SCALE  
PLOTTER  
No Pen Touch  
DATE  
LEVELS  
PLOT  
DON



- NOTES:
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
  2. TB1\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 50
  3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION A-A FOR DIMENSIONAL WORK POINT LOCATION.
  4. FOR DETAILS OF INTERNAL GIRDER BRACING B1 SEE DWG. 50
  5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53

|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION "L" (ft) | 699.514 | 699.434 | 699.270 | 699.100 | 698.925 | 698.743 | 698.624 | 698.555 | 698.362 | 698.162 | 697.956 | 697.744 | 697.526 | 697.301 | 697.072 | 696.842 | 696.612 | 696.383 | 696.153 | 695.923 | 695.693 | 695.464 | 695.233 | 695.160 |
| ELEVATION "R" (ft) | 699.432 | 699.353 | 699.188 | 699.013 | 698.828 | 698.637 | 698.512 | 698.440 | 698.237 | 698.028 | 697.812 | 697.591 | 697.363 | 697.130 | 696.891 | 696.652 | 696.413 | 696.174 | 695.934 | 695.695 | 695.456 | 695.217 | 694.965 | 694.884 |
| CAMBER "A" (in)    | 0.000   | 0.828   | 2.498   | 4.169   | 5.612   | 7.000   | 7.858   | 8.342   | 9.301   | 10.261  | 11.017  | 11.483  | 11.950  | 12.047  | 11.999  | 11.940  | 11.409  | 10.877  | 10.223  | 9.317   | 8.411   | 7.375   | 6.264   | 5.314   |

GIRDER GEOMETRY SCHEDULE

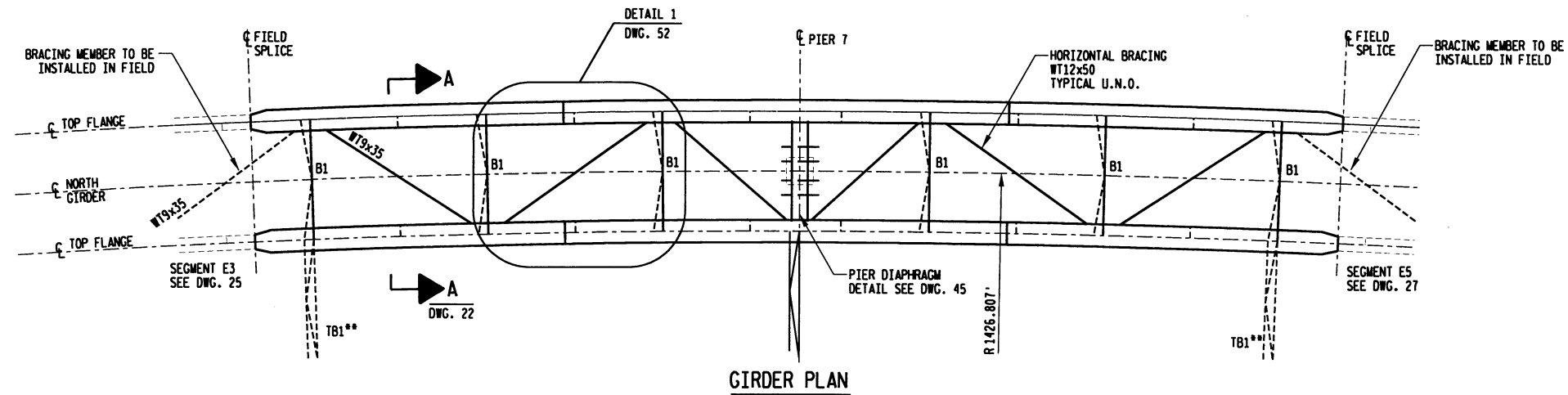


|                                                    |           |                |       |
|----------------------------------------------------|-----------|----------------|-------|
| No.                                                | Date      | Revision       | By    |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                |       |
| STRUCTURE B-32-202-0003                            |           |                |       |
| Const. Spec.                                       | WIS. 1996 | Drawn By       | KB/DM |
| Plans Checked                                      | NDH       |                |       |
| NORTH GIRDER<br>SEGMENT E1                         |           | SHEET 23 OF 56 |       |

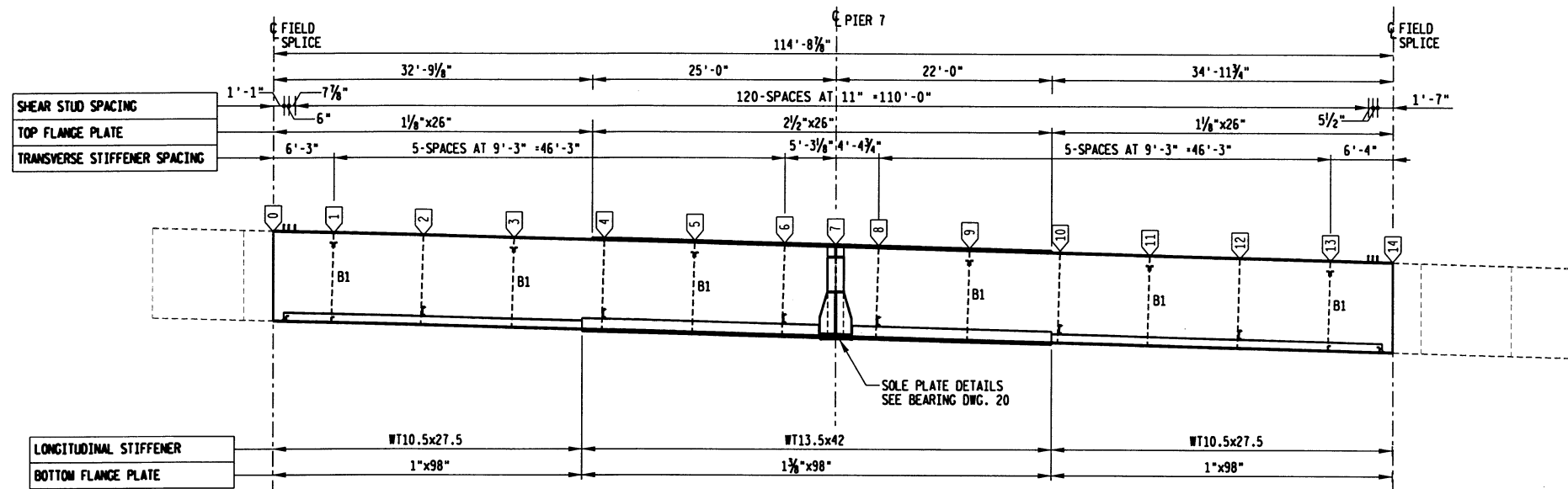
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PLOTTER: No Pen Table  
LEVELS: 500, 501, 502, 503, 504  
PREP: DCM





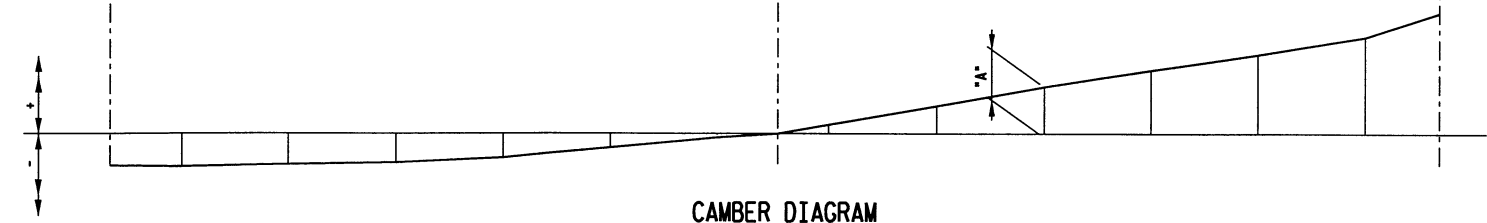


- NOTES:
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
  2. T81\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 50
  3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION A-A FOR DIMENSIONAL WORK POINT LOCATION.
  4. FOR DETAILS OF INTERNAL GIRDER BRACING B1 SEE DWG. 50
  5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53



|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION "L" (ft) | 688.886 | 688.727 | 688.490 | 688.252 | 688.013 | 687.773 | 687.532 | 687.394 | 687.279 | 687.035 | 686.790 | 686.545 | 686.298 | 686.050 | 685.878 |
| ELEVATION "R" (ft) | 688.511 | 688.351 | 688.115 | 687.877 | 687.638 | 687.397 | 687.156 | 687.019 | 686.903 | 686.660 | 686.415 | 686.169 | 685.923 | 685.680 | 685.529 |
| CAMBER "A" (in)    | -1.346  | -1.388  | -1.323  | -1.238  | -1.103  | -0.674  | -0.244  | 0.000   | 0.384   | 1.192   | 2.000   | 2.708   | 3.388   | 4.137   | 5.162   |

GIRDER GEOMETRY SCHEDULE

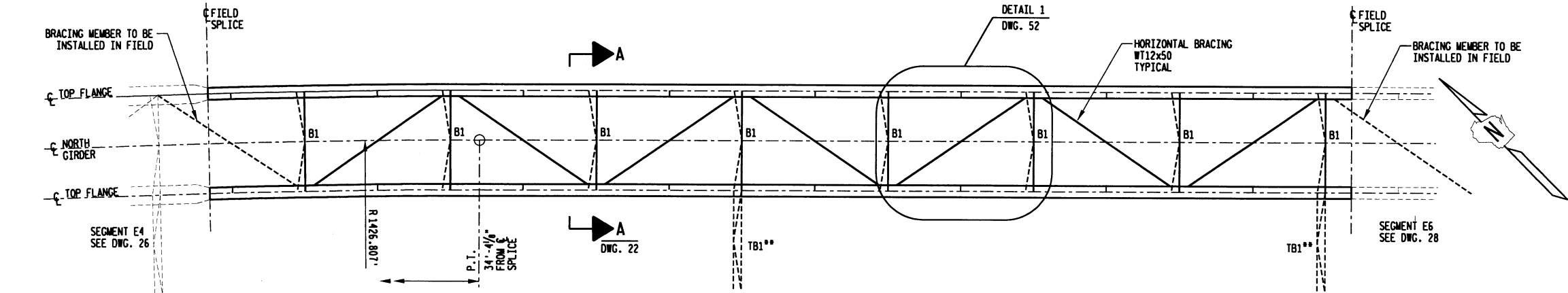


CAMBER DIAGRAM

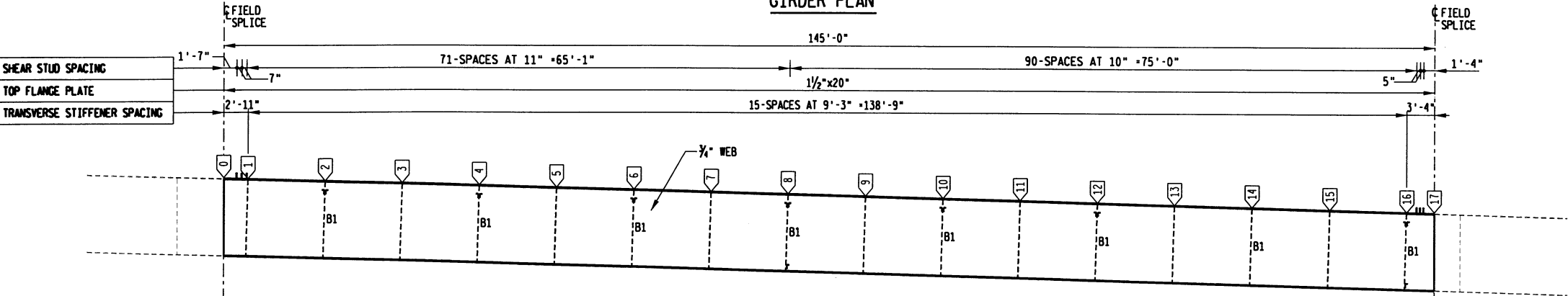
|                                                    |           |             |                   |
|----------------------------------------------------|-----------|-------------|-------------------|
| No.                                                | Date      | Revision    | By                |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |             |                   |
| STRUCTURE B-32-202-0003                            |           |             |                   |
| Const. Spec.                                       | WIS. 1996 | Drawn By KB | Plans Checked NDH |
| NORTH GIRDER<br>SEGMENT E4                         |           |             | SHEET 26 OF 56    |

SCALE  
PLOTTER  
No Pen Table  
DATE: 09/26/2002  
FILE: 5200-07-71.DWG  
DIA

- NOTES:
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
  2. TB1\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 50
  3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION A-A FOR DIMENSIONAL WORK POINT LOCATION.
  4. FOR DETAILS OF INTERNAL GIRDER BRACING B1 SEE DWG. 50
  5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53



GIRDER PLAN



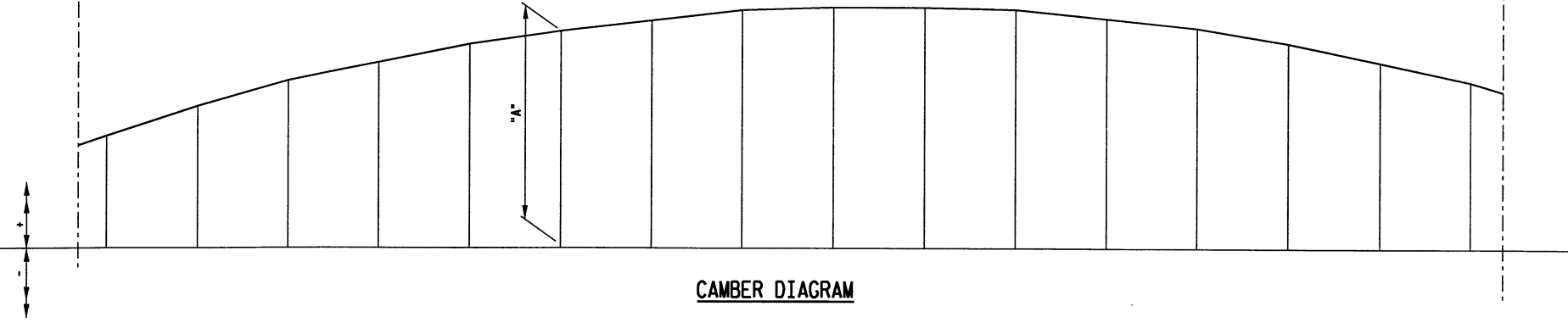
BOTTOM FLANGE PLATE

3/4"x98"

GIRDER GEOMETRY SCHEDULE

|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION "L" (ft) | 685.878 | 685.878 | 685.547 | 685.294 | 685.040 | 684.786 | 684.531 | 684.275 | 684.017 | 683.759 | 683.499 | 683.238 | 682.977 | 682.714 | 682.450 | 682.185 | 681.918 | 681.652 |
| ELEVATION "R" (ft) | 685.529 | 685.459 | 685.237 | 685.015 | 684.791 | 684.566 | 684.341 | 684.115 | 683.887 | 683.659 | 683.429 | 683.198 | 682.967 | 682.734 | 682.500 | 682.264 | 682.028 | 681.791 |
| CAMBER "A" (in)    | 5.162   | 5.635   | 7.134   | 8.409   | 9.335   | 10.260  | 10.916  | 11.453  | 11.990  | 12.056  | 12.121  | 12.026  | 11.563  | 11.100  | 10.331  | 9.366   | 8.400   | 7.910   |

GIRDER ELEVATION SCHEDULE



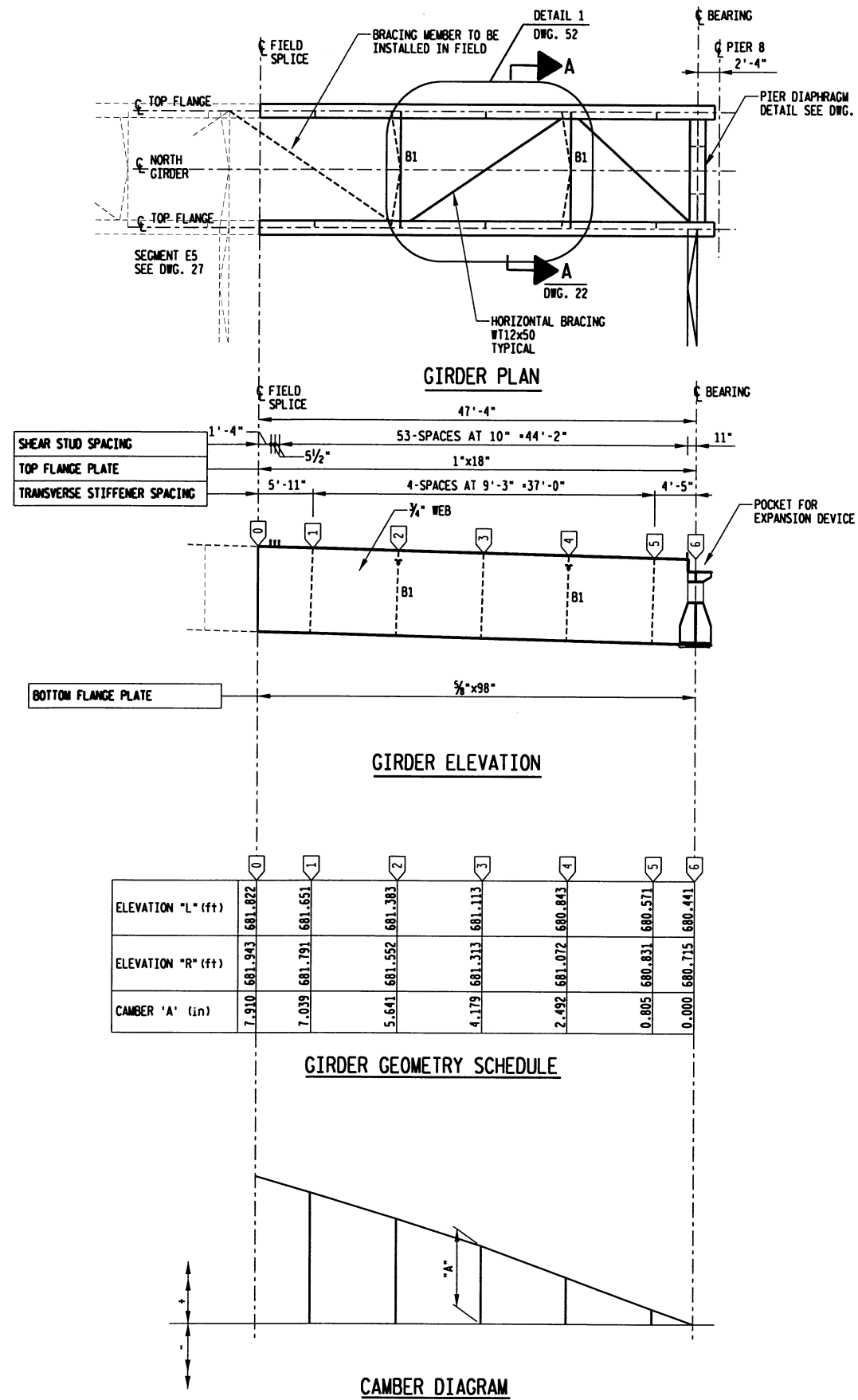
CAMBER DIAGRAM

|                                                    |           |             |                   |
|----------------------------------------------------|-----------|-------------|-------------------|
| No.                                                | Date      | Revision    | By                |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |             |                   |
| STRUCTURE B-32-202-0003                            |           |             |                   |
| Const. Spec.                                       | WIS. 1996 | Drawn By KB | Plans Checked NDH |
| NORTH GIRDER<br>SEGMENT E5                         |           |             | SHEET 27 OF 56    |

SCALE: 1"=10'-0"  
PLOTTER: No Pen Table  
LEVEL 500  
DATE: 09/26/2002  
DIN

##REF04\$  
LEVEL 50  
##REF02\$  
LEVEL 50  
##REF03\$  
LEVEL 50  
##REF04\$  
LEVEL 50  
##REF04\$  
LEVEL 50

SCALE  
PLOTTER  
DATE  
LEVEL 50  
DCA



STATE PROJECT NUMBER  
5200-07-71

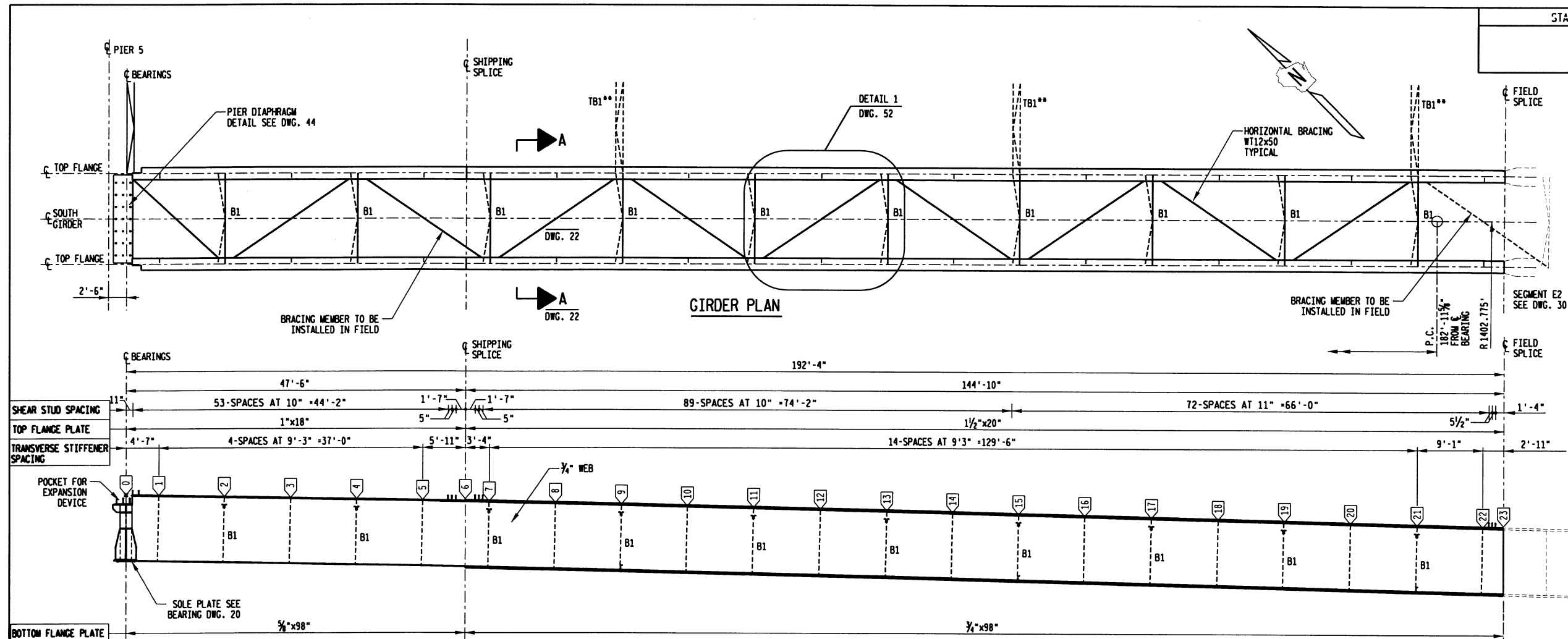
SHEET NO.  
174

- NOTES:
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
  2. TB1\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 50
  3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION A-A FOR DIMENSIONAL WORK POINT LOCATION.
  4. FOR DETAILS OF INTERNAL GIRDER BRACING B1 SEE DWG. 50
  5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53

|                                                    |           |                  |                |
|----------------------------------------------------|-----------|------------------|----------------|
| No.                                                | Date      | Revision         | By             |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                  |                |
| STRUCTURE B-32-202-0003                            |           |                  |                |
| Const.<br>Spec.                                    | WIS. 1996 | Drawn<br>By      | DCA/KSB        |
|                                                    |           | Plans<br>Checked | NDH            |
| NORTH GIRDER<br>SEGMENT E6                         |           |                  | SHEET 28 OF 56 |

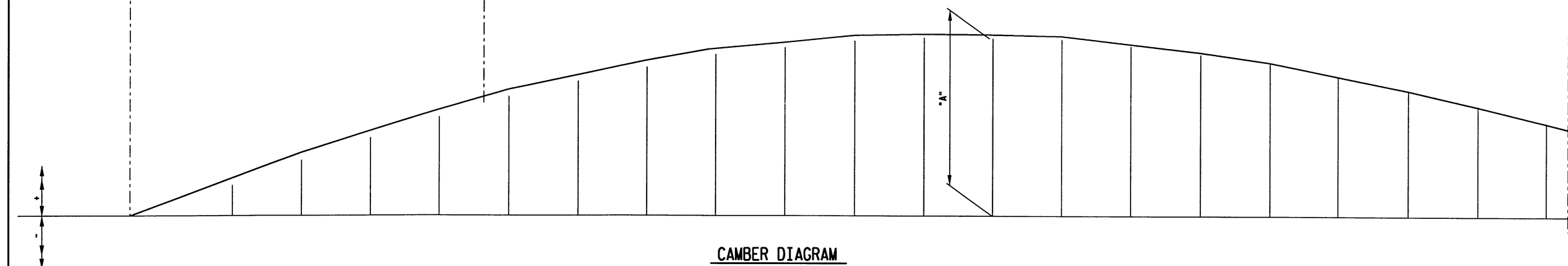
## NOTES:

1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
2. TB1\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 50
3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION A-A FOR DIMENSIONAL WORK POINT LOCATION.
4. FOR DETAILS OF INTERNAL GIRDER BRACING B1 SEE DWG. 50
5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53



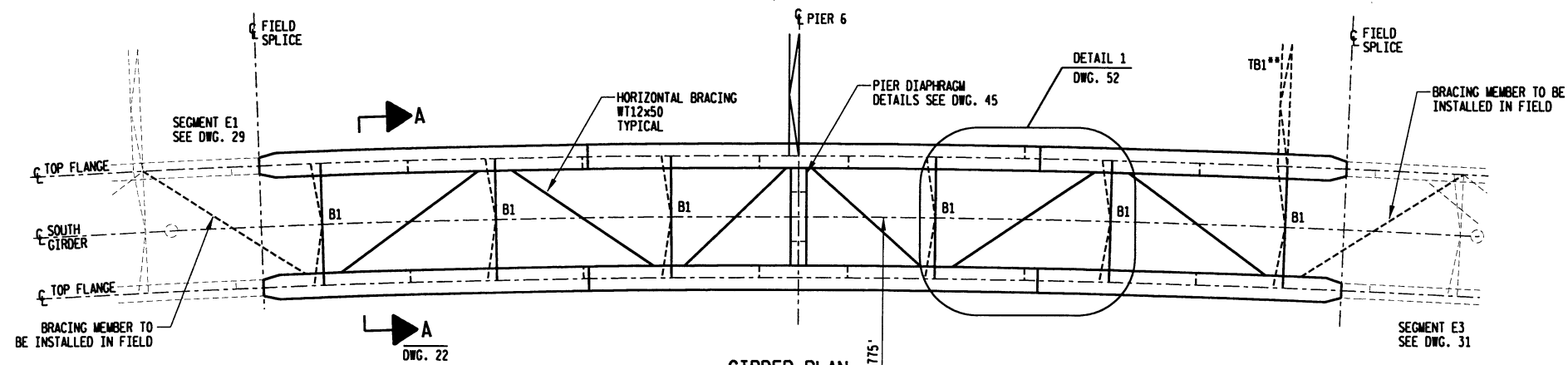
GIRDER ELEVATION

GIRDER GEOMETRY SCHEDULE

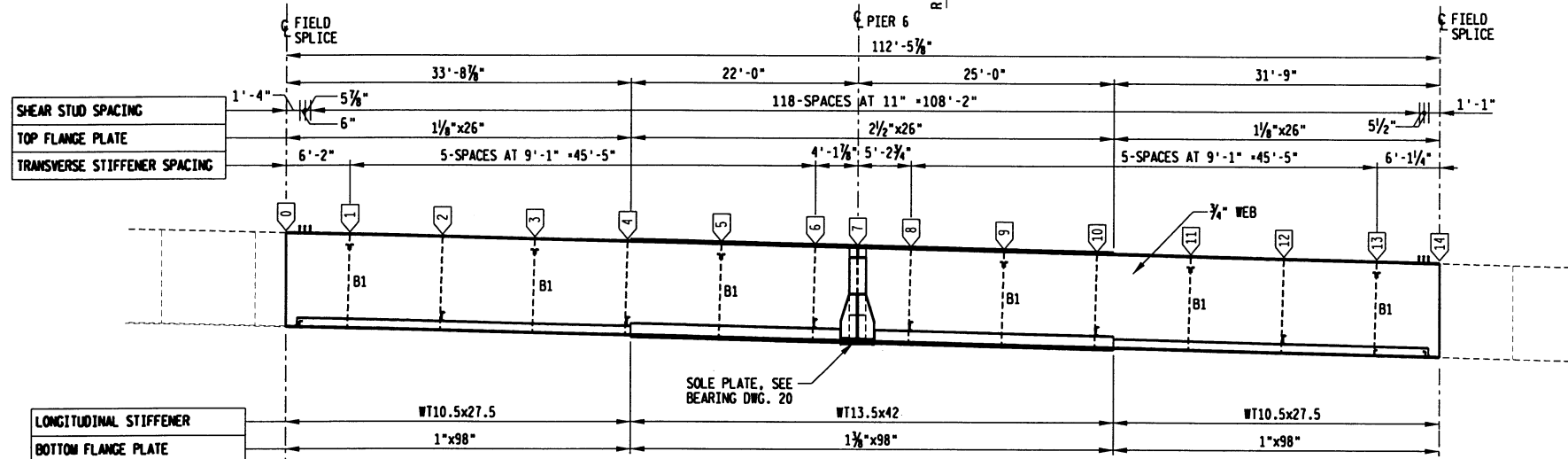


CAMBER DIAGRAM

| No.                                                | Date      | Revision      | By             |
|----------------------------------------------------|-----------|---------------|----------------|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | KSB            |
|                                                    |           | Plans Checked | NDH            |
| SOUTH GIRDER<br>SEGMENT E1                         |           |               | SHEET 29 OF 56 |



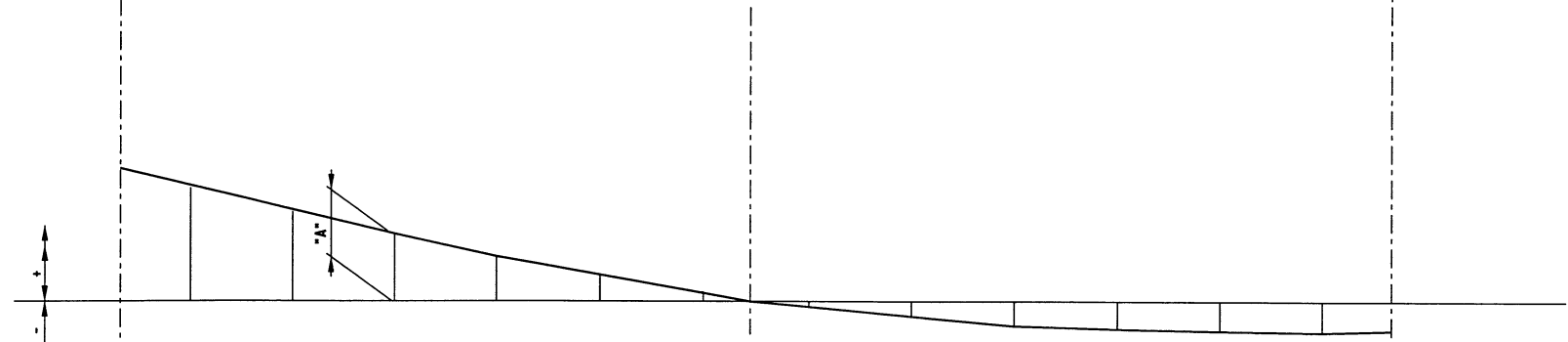
GIRDER PLAN



GIRDER ELEVATION

|                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      |
| ELEVATION "L" (ft) | 694.607 | 694.413 | 694.127 | 693.841 | 693.561 | 693.329 | 693.097 | 692.991 | 692.867 | 692.625 | 692.393 | 692.161 | 691.929 | 691.697 | 691.541 |
| ELEVATION "R" (ft) | 694.331 | 694.118 | 693.804 | 693.490 | 693.186 | 692.954 | 692.722 | 692.616 | 692.482 | 692.250 | 692.018 | 691.786 | 691.554 | 691.322 | 691.166 |
| CAMBER "A" (in)    | 5.808   | 5.063   | 4.004   | 2.945   | 1.958   | 1.161   | 0.365   | 0.000   | -0.238  | -0.652  | -1.065  | -1.195  | -1.278  | -1.333  | -1.261  |

GIRDER GEOMETRY SCHEDULE



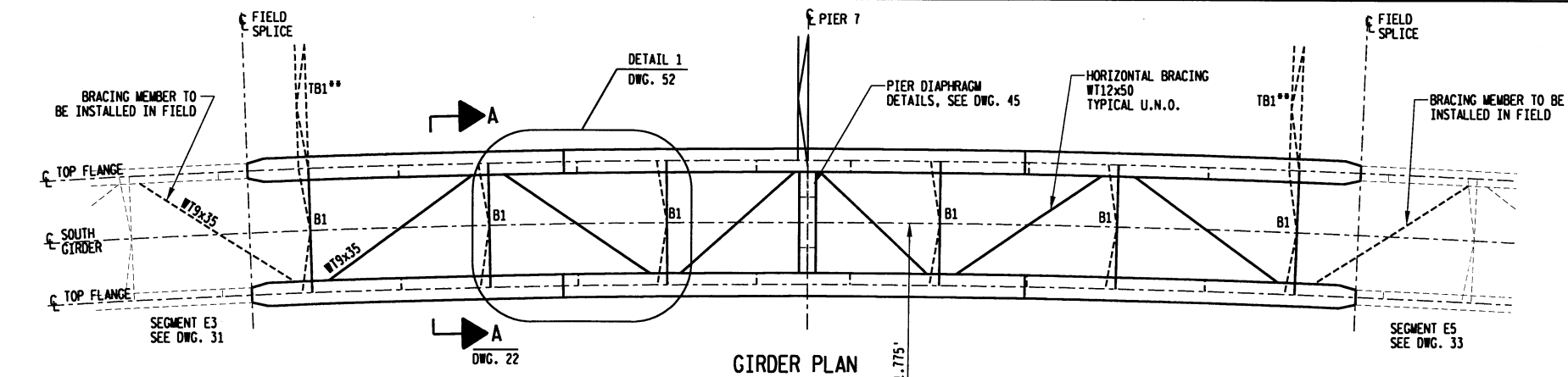
CAMBER DIAGRAM

- NOTES:
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
  2. TB1\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 50
  3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION A-A FOR DIMENSIONAL WORK POINT LOCATION.
  4. FOR DETAILS OF INTERNAL GIRDER BRACING B1 SEE DWG. 50
  5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53

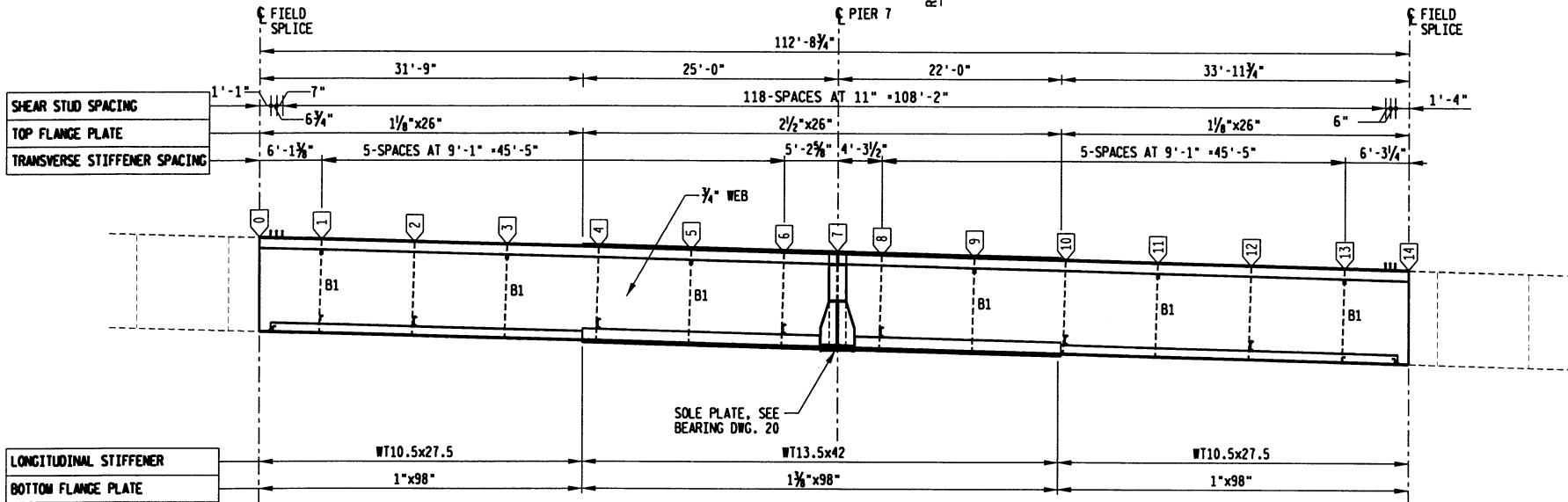
|                                                    |           |              |                   |
|----------------------------------------------------|-----------|--------------|-------------------|
| No.                                                | Date      | Revision     | By                |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |              |                   |
| STRUCTURE B-32-202-0003                            |           |              |                   |
| Const. Spec.                                       | WIS. 1996 | Drawn By KSB | Plans Checked NDH |
| SOUTH GIRDER<br>SEGMENT E2                         |           |              | SHEET 30 OF 56    |

SCALE: 1"=10'-0"  
PLOTTER: No Pen Table  
DATE: 09/26/2002  
BY: DSK



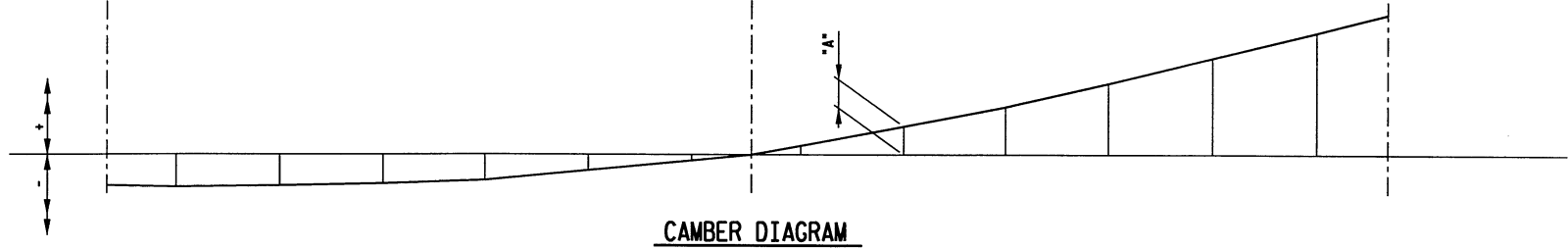


- NOTES:
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
  2. TB1\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 50
  3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION A-A FOR DIMENSIONAL WORK POINT LOCATION.
  4. FOR DETAILS OF INTERNAL GIRDER BRACING B1 SEE DWG. 50
  5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53



|                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      |
| ELEVATION "L" (ft) | 688.136 | 687.977 | 687.740 | 687.502 | 687.263 | 687.023 | 686.782 | 686.643 | 686.529 | 686.285 | 686.041 | 685.795 | 685.549 | 685.311 | 685.205 |
| ELEVATION "R" (ft) | 687.760 | 687.602 | 687.365 | 687.127 | 686.888 | 686.648 | 686.407 | 686.268 | 686.153 | 685.910 | 685.665 | 685.420 | 685.173 | 684.941 | 684.851 |
| CAMBER "A" (in)    | -1.341  | -1.415  | -1.352  | -1.259  | -1.118  | -0.684  | -0.249  | 0.000   | 0.397   | 1.236   | 2.075   | 3.113   | 4.219   | 5.326   | 6.112   |

GIRDER GEOMETRY SCHEDULE

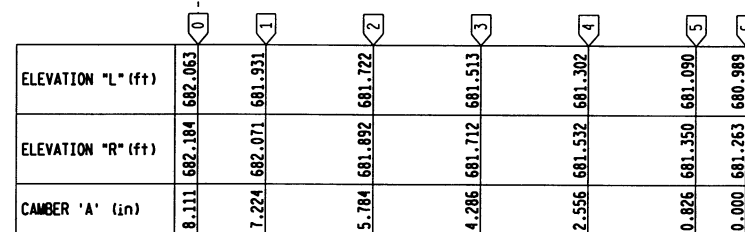
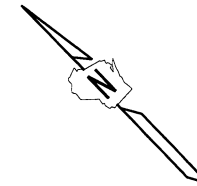


|                                                    |           |              |                   |
|----------------------------------------------------|-----------|--------------|-------------------|
| No.                                                | Date      | Revision     | By                |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |              |                   |
| STRUCTURE B-32-202-0003                            |           |              |                   |
| Const. Spec.                                       | WIS. 1996 | Drawn By KSB | Plans Checked NDH |
| SOUTH GIRDER<br>SEGMENT E4                         |           |              | SHEET 32 OF 56    |

SCALE  
PLOTTER  
No Pen Table  
LEVELS  
PRE  
DIN

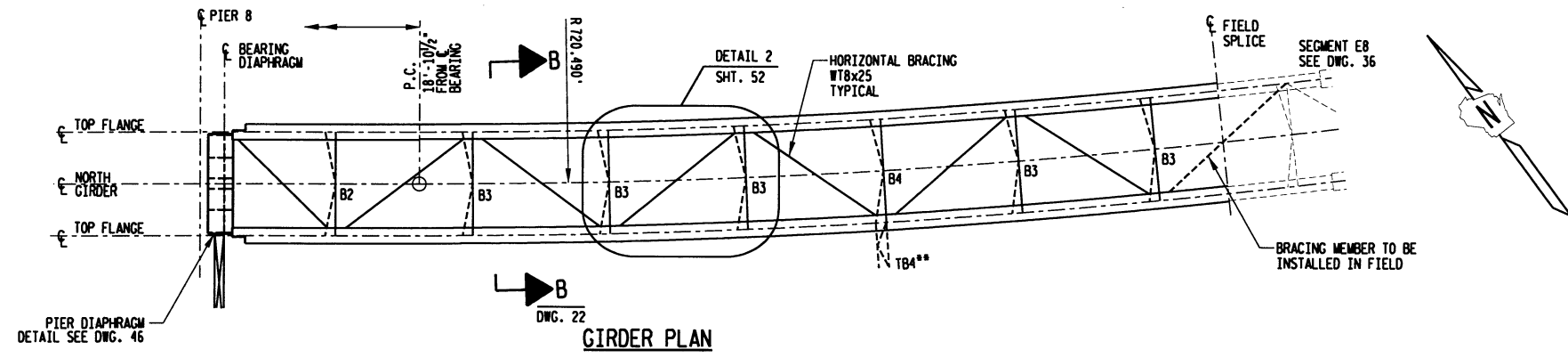


1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
2. TB1\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 50
3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION A-A FOR DIMENSIONAL WORK POINT LOCATION.
4. FOR DETAILS OF INTERNAL GIRDER BRACING B1 SEE DWG. 50
5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53

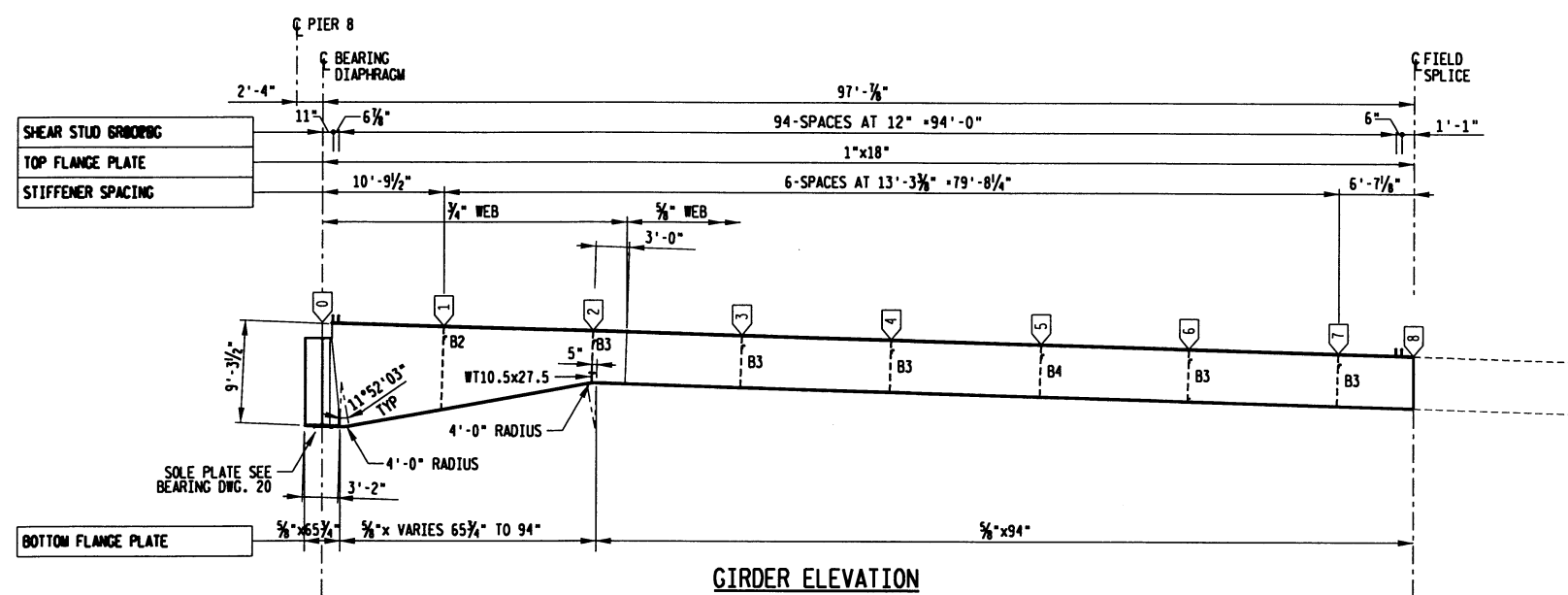


The diagram shows a linear profile representing camber. The horizontal axis is labeled with  $+1$  and  $-1$  at the ends. The vertical axis is labeled with  $+1$  and  $-1$  at the ends. The profile is a straight line sloping downwards from left to right. The area under the profile is divided into several vertical strips. A vertical line is drawn at the right end of the profile, labeled  $+1$ . The profile is labeled CAMBER DIAGRAM.

|                                                    |           |                |                      |
|----------------------------------------------------|-----------|----------------|----------------------|
| No.                                                | Date      | Revision       | By                   |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                |                      |
| STRUCTURE B-32-202-0003                            |           |                |                      |
| Const.<br>Spec.                                    | WIS. 1996 | Drawn<br>By KB | Plans<br>Checked NDH |
| SOUTH GIRDER<br>SEGMENT E6                         |           |                | SHEET 34 OF 56       |
|                                                    |           |                |                      |

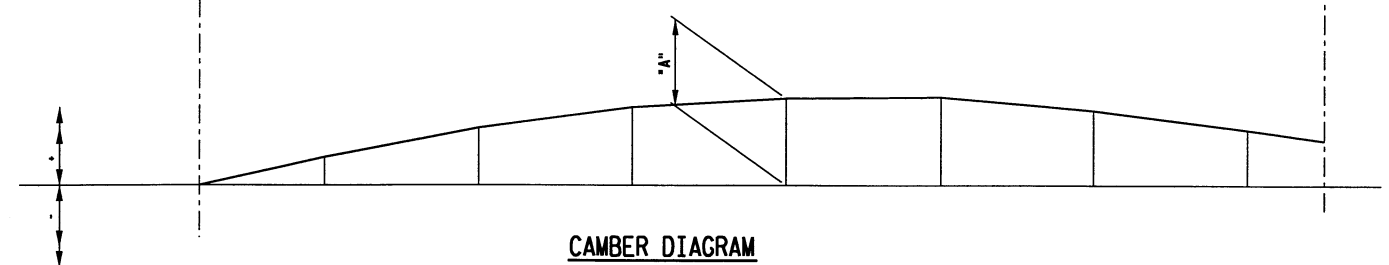


- NOTES:
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
  2. TB4\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 51
  3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION B-B FOR DIMENSIONAL WORK POINT LOCATION.
  4. FOR DETAILS OF INTERNAL DIAPHRAGM BRACING B2, B3 AND B4 SEE DWG. 51
  5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53



|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION "L" (ft) | 680.428 | 680.108 | 679.715 | 679.323 | 678.931 | 678.540 | 678.150 | 677.761 | 677.552 |
| ELEVATION "R" (ft) | 680.717 | 680.432 | 680.006 | 679.648 | 679.290 | 678.927 | 678.537 | 678.148 | 677.939 |
| CAMBER "A" (in)    | 0.000   | 1.195   | 2.441   | 3.330   | 3.762   | 3.700   | 3.185   | 2.362   | 1.895   |

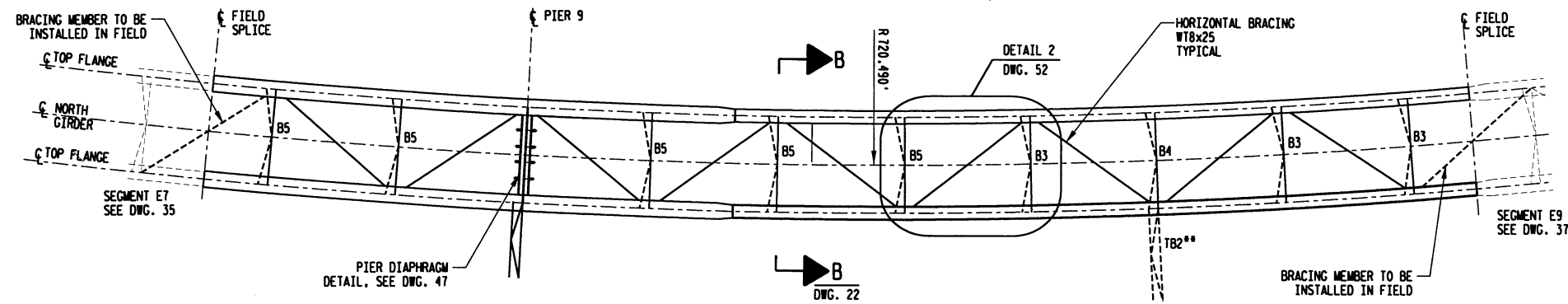
GIRDER GEOMETRY SCHEDULE



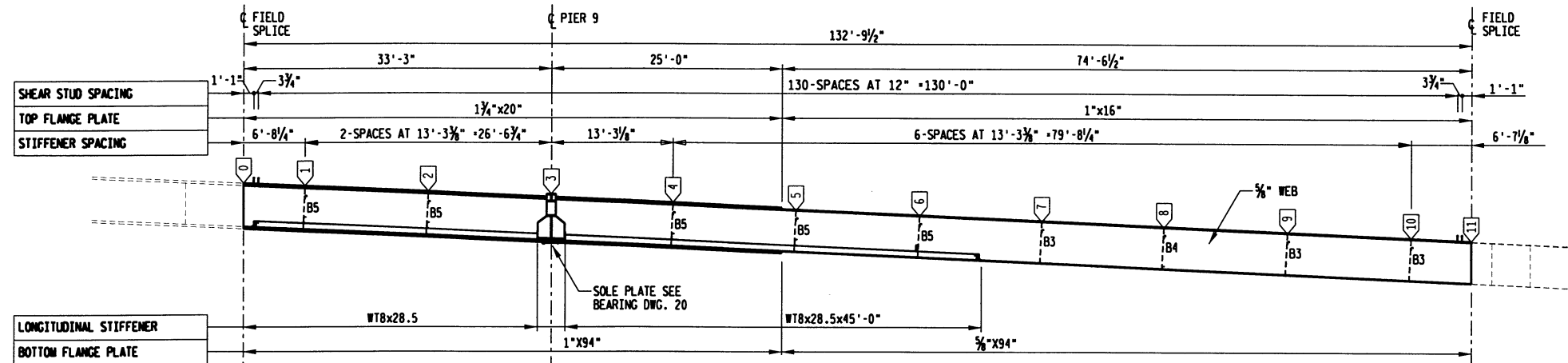
CAMBER DIAGRAM

|                                                    |           |                |     |
|----------------------------------------------------|-----------|----------------|-----|
| No.                                                | Date      | Revision       | By  |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                |     |
| STRUCTURE B-32-202-0003                            |           |                |     |
| Const. Spec.                                       | WIS. 1996 | Drawn By       | KSB |
| Plans Checked                                      | NDH       | SHEET 35 OF 56 |     |
| NORTH GIRDER<br>SEGMENT E7                         |           |                |     |

SCALE: 1"=10'-0"  
PLOTTER: No Pen Table  
DATE: 09/26/2002  
LEVELS: 5200-07-71  
DWG: 181



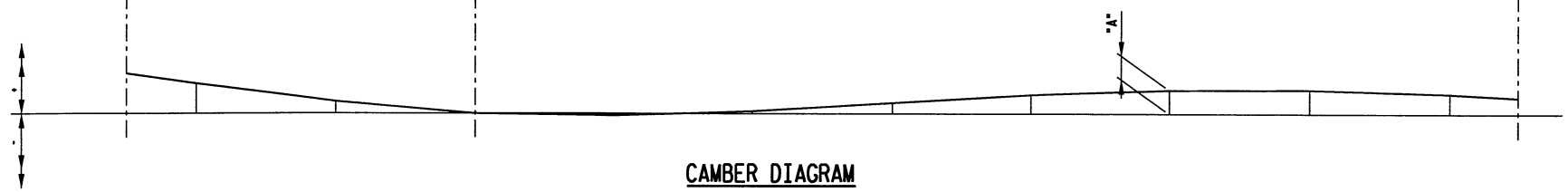
GIRDER PLAN



GIRDER ELEVATION

|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION "L" (ft) | 677.552 | 677.372 | 676.982 | 676.593 | 676.204 | 675.815 | 675.425 | 675.035 | 674.646 | 674.257 | 673.867 | 673.474 |
| ELEVATION "R" (ft) | 677.939 | 677.758 | 677.369 | 676.980 | 676.591 | 676.201 | 675.812 | 675.422 | 675.033 | 674.643 | 674.254 | 673.861 |
| CAMBER "A" (in)    | 1.895   | 1.421   | 0.570   | 0.000   | -0.099  | 0.121   | 0.516   | 0.898   | 1.128   | 1.153   | 0.955   | 0.779   |

GIRDER GEOMETRY SCHEDULE



CAMBER DIAGRAM

- NOTES:
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
  2. TB2\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 51
  3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION B-B FOR DIMENSIONAL WORK POINT LOCATION.
  4. FOR DETAILS OF INTERNAL GIRDER BRACING B2, B3 AND B4 SEE DWG. 51
  5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53

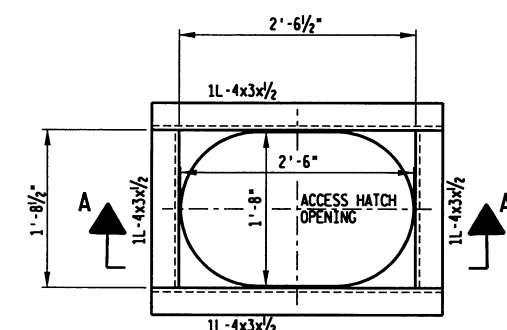
|                                                    |           |               |                |
|----------------------------------------------------|-----------|---------------|----------------|
| No.                                                | Date      | Revision      | By             |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | KS8            |
|                                                    |           | Plans Checked | NDH            |
| NORTH GIRDER<br>SEGMENT E8                         |           |               | SHEET 36 OF 56 |

SCALE:  
DRAWN BY:  
DATE:  
CHECKED BY:  
APPROVED BY:  
DWG. NO.:

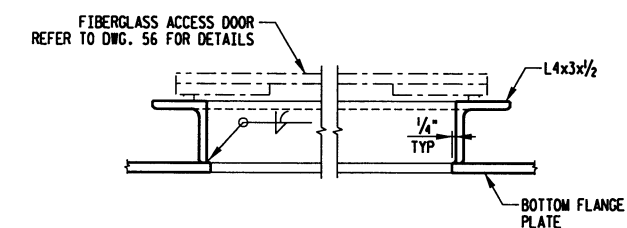
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE PLATED BY 2" - 6"
2. TB3\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 57
3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION B-B FOR DIMENSIONAL WORK POINT LOCATION.
4. FOR DETAILS OF INTERNAL DIAPHRAGM BRACING B2, B3 AND B4 SEE DWG. 51
5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53



GIRDER PLAN



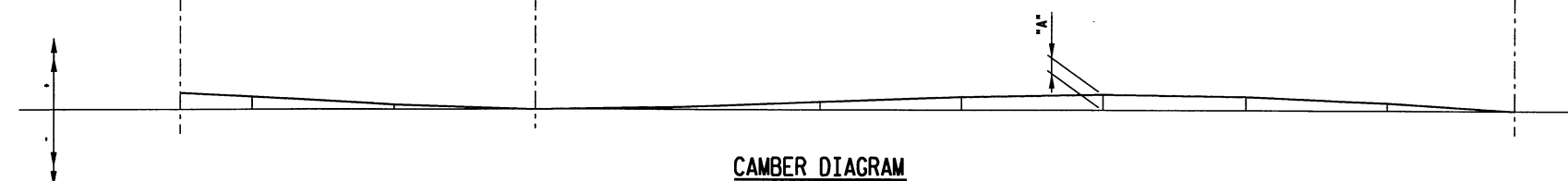
DETAIL 1



SECTION A-A

|                    |         |         |         |         |         |         |         |         |         |         |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION "L" (ft) | 673.674 | 673.478 | 673.088 | 672.699 | 672.309 | 671.920 | 671.530 | 671.141 | 670.752 | 670.362 |
| ELEVATION "R" (ft) | 674.061 | 673.864 | 673.475 | 673.086 | 672.696 | 672.307 | 671.917 | 671.528 | 671.138 | 670.749 |
| CAMBER 'A' (in)    | 0.179   | 0.600   | 0.222   | 0.000   | 0.115   | 0.377   | 0.612   | 0.126   | 0.640   | 0.360   |

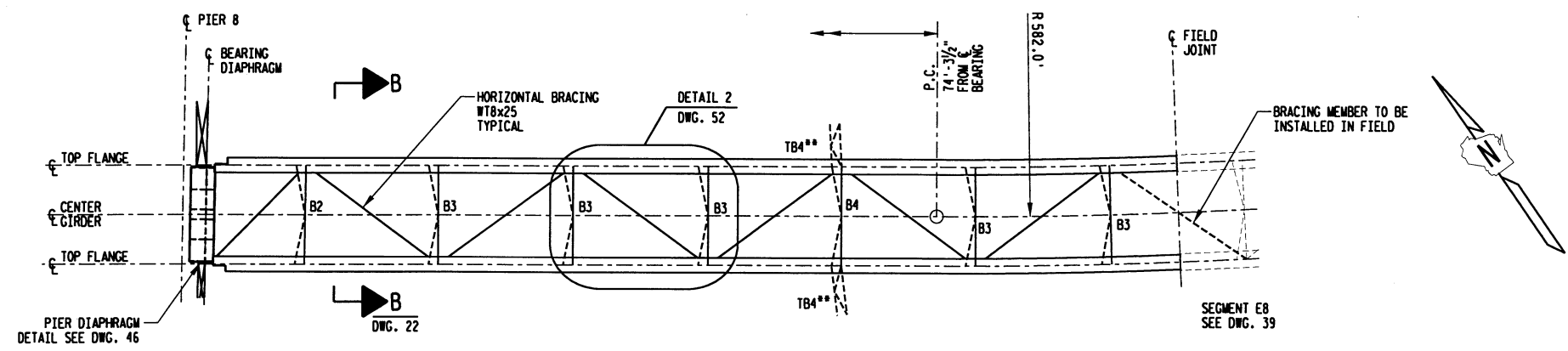
### GIRDER GEOMETRY SCHEDULE



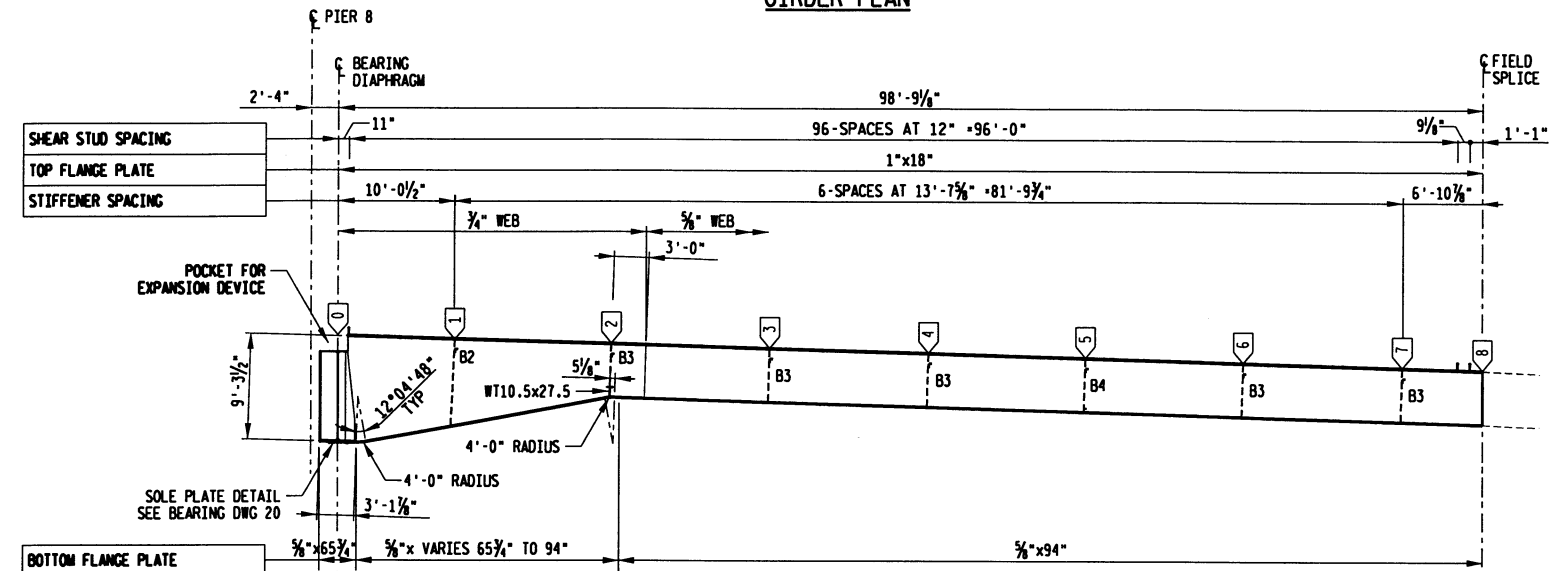
### CAMBER DIAGRAM

|                                                    |           |                 |                      |
|----------------------------------------------------|-----------|-----------------|----------------------|
|                                                    |           |                 |                      |
| No.                                                | Date      | Revision        | By                   |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                 |                      |
| STRUCTURE B-32-202-0003                            |           |                 |                      |
| Const.<br>Spec.                                    | WIS. 1996 | Drawn<br>By KSB | Plans<br>Checked NOH |
| NORTH GIRDER<br>SEGMENT E9                         |           |                 | SHEET 37 OF 56       |

- NOTES:
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
  2. TB4\*\* INDICATES TEMPORARY BRACING TO BE INSTALLED IN FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 51
  3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION B-B FOR DIMENSIONAL WORK POINT LOCATION.
  4. FOR DETAILS OF INTERNAL DIAPHRAGM BRACING B2, B3 AND B4 SEE DWG. 51
  5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53



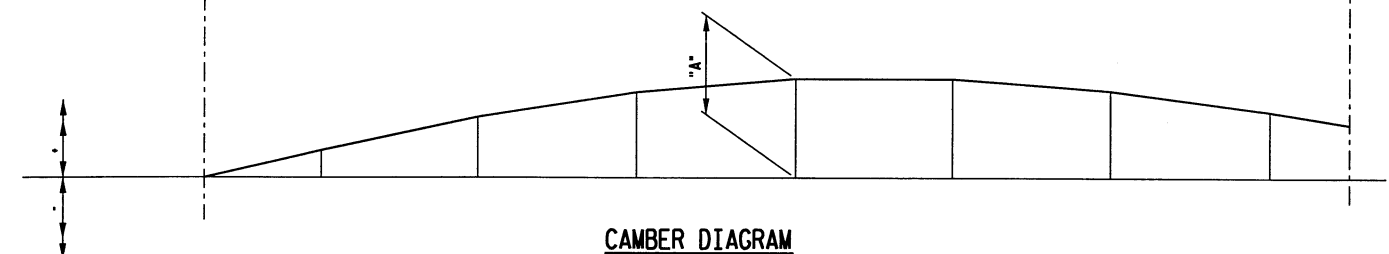
GIRDER PLAN



GIRDER ELEVATION

|                    |         |         |         |         |         |         |         |         |         |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       |
| ELEVATION "L" (ft) | 680.746 | 680.481 | 680.123 | 679.772 | 679.432 | 679.095 | 678.732 | 678.371 | 678.188 |
| ELEVATION "R" (ft) | 680.975 | 680.736 | 680.411 | 680.101 | 679.796 | 679.494 | 679.134 | 678.773 | 678.589 |
| CAMBER 'A' (in)    | 0.000   | 1.157   | 2.578   | 3.654   | 4.223   | 4.229   | 3.722   | 2.826   | 2.270   |

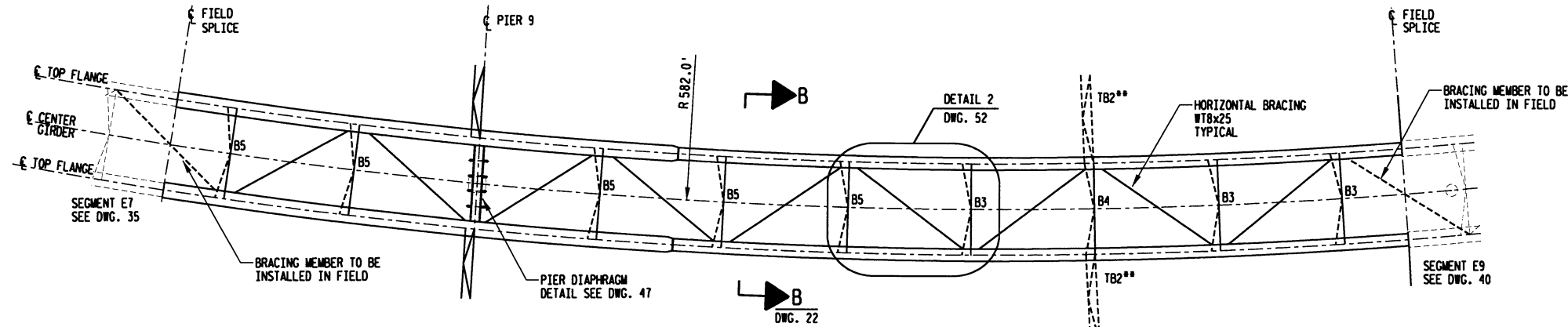
GIRDER GEOMETRY SCHEDULE



CAMBER DIAGRAM

|                                                    |           |              |                   |
|----------------------------------------------------|-----------|--------------|-------------------|
| No.                                                | Date      | Revision     | By                |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |              |                   |
| STRUCTURE B-32-202-0003                            |           |              |                   |
| Const. Spec.                                       | WIS. 1996 | Drawn By DCA | Plans Checked NDH |
| CENTER GIRDER<br>SEGMENT E7                        |           |              | SHEET 38 OF 56    |

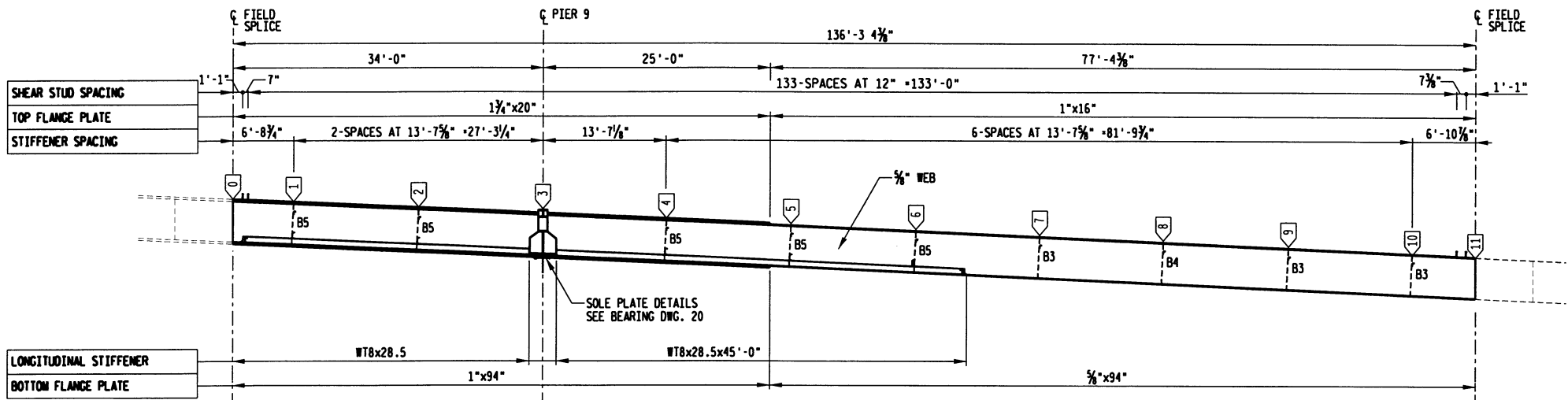
SCALE: 1/8" = 1'-0"  
PLOTTER: No Pen Table  
LEVEL: 500  
REF: 500  
DIN



GIRDER PLAN

NOTES:

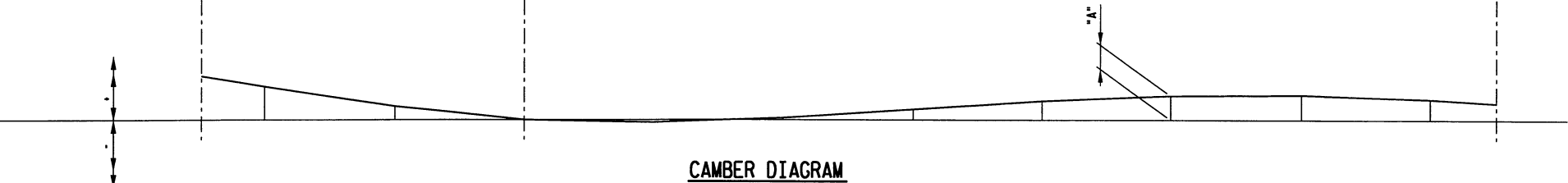
1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
2. TB2\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 52
3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION B-B FOR DIMENSIONAL WORK POINT LOCATION.
4. FOR DETAILS OF INTERNAL DIAPHRAGM BRACING B2, B3 AND B4 SEE DWG. 51
5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53



GIRDER ELEVATION

|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION "L" (ft) | 678.188 | 678.009 | 677.644 | 677.283 | 676.907 | 676.535 | 676.160 | 675.784 | 675.404 | 675.022 | 674.637 | 674.441 |
| ELEVATION "R" (ft) | 678.589 | 678.409 | 678.043 | 677.669 | 677.304 | 676.930 | 676.554 | 676.176 | 675.795 | 675.412 | 675.024 | 674.827 |
| CAMBER "A" (in)    | 2.270   | 1.728   | 0.700   | 0.000   | -0.141  | 0.097   | 0.544   | 0.985   | 1.255   | 1.292   | 1.073   | 0.870   |

GIRDER GEOMETRY SCHEDULE



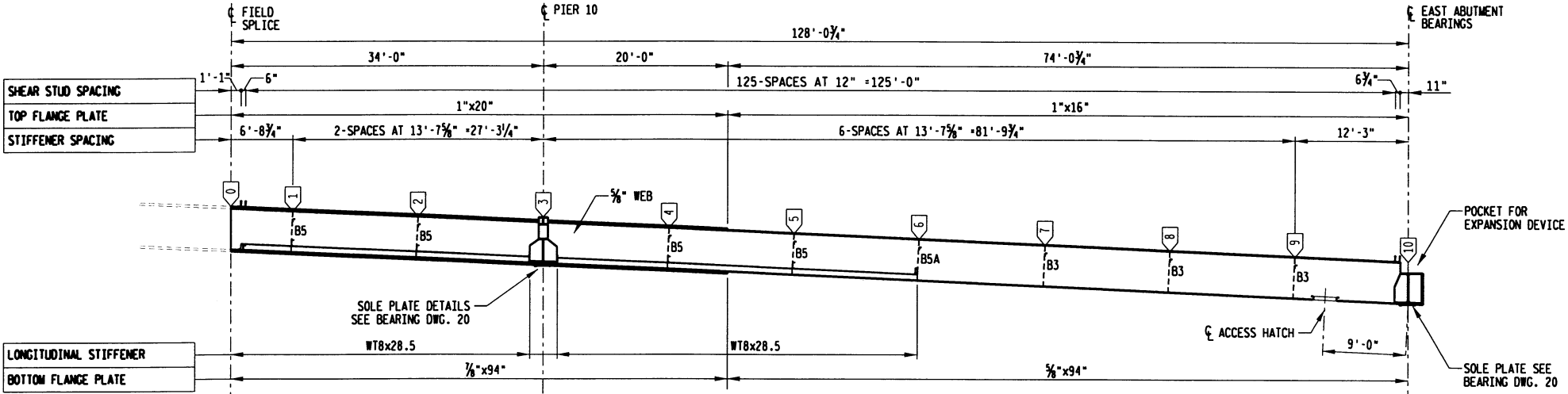
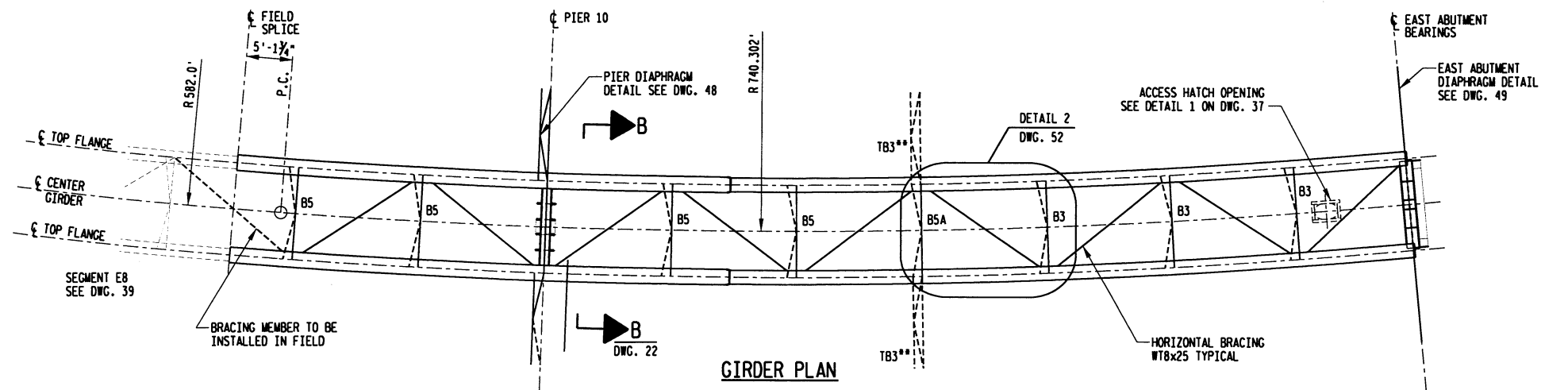
CAMBER DIAGRAM

| No.                                                | Date      | Revision      | By             |
|----------------------------------------------------|-----------|---------------|----------------|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | DCA            |
|                                                    |           | Plans Checked | NDH            |
| CENTER GIRDER<br>SEGMENT E8                        |           |               | SHEET 39 OF 56 |

SCALE  
PLOTTER  
DATE: 09/26/2002  
TIME: 01:05:18 PM  
DRAWN BY: DON  
CHECKED BY: DON  
APPROVED BY: DON

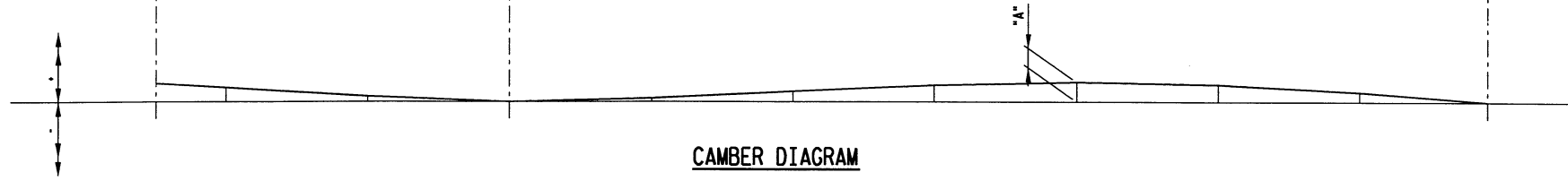
NOTES:

1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
2. TB3\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 51
3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION B-B FOR DIMENSIONAL WORK POINT LOCATION.
4. FOR DETAILS OF INTERNAL DIAPHRAGM BRACING B2, B3 AND B4 SEE DWG. 51
5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53.



|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION "L" (ft) | 674.441 | 674.250 | 673.860 | 673.471 | 673.082 | 672.693 | 672.304 | 671.915 | 671.526 | 671.136 | 670.747 |
| ELEVATION "R" (ft) | 674.827 | 674.635 | 674.246 | 673.857 | 673.468 | 673.079 | 672.690 | 672.301 | 671.911 | 671.522 | 671.132 |
| CAMBER "A" (in)    | 0.870   | 0.673   | 0.247   | 0.000   | 0.141   | 0.448   | 0.723   | 0.856   | 0.753   | 0.425   | 0.000   |

GIRDER GEOMETRY SCHEDULE



CAMBER DIAGRAM

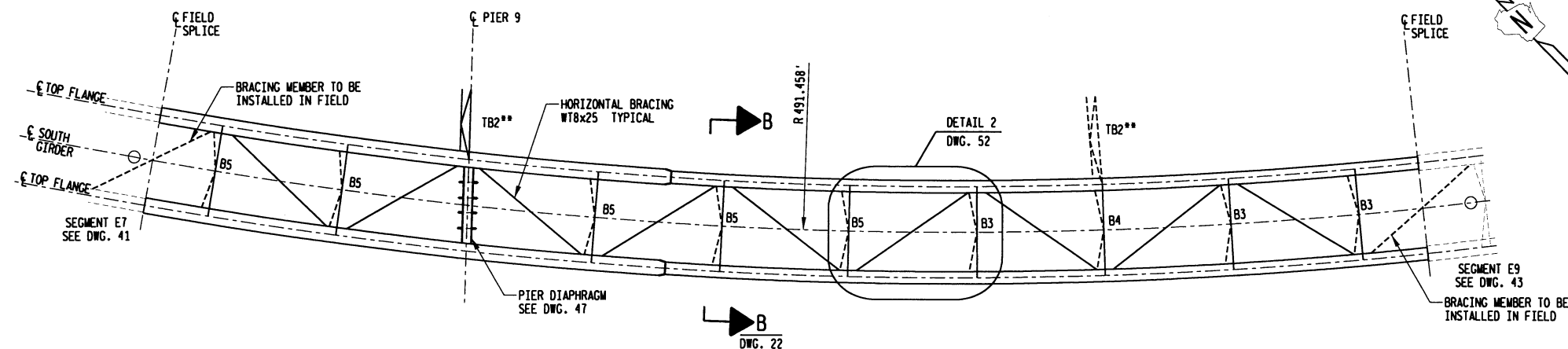
|                                                    |           |              |                   |
|----------------------------------------------------|-----------|--------------|-------------------|
| No.                                                | Date      | Revision     | By                |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |              |                   |
| STRUCTURE B-32-202-0003                            |           |              |                   |
| Const. Spec.                                       | WIS. 1996 | Drawn By DCA | Plans Checked NDH |
| CENTER GIRDER<br>SEGMENT E9                        |           |              | SHEET 40 OF 56    |

SCALE: 1"=10'-0"  
PLOTTER: No Pen Table  
DATE: 09/26/2002  
FILE: 5200-07-71-186.dgn  
DCA

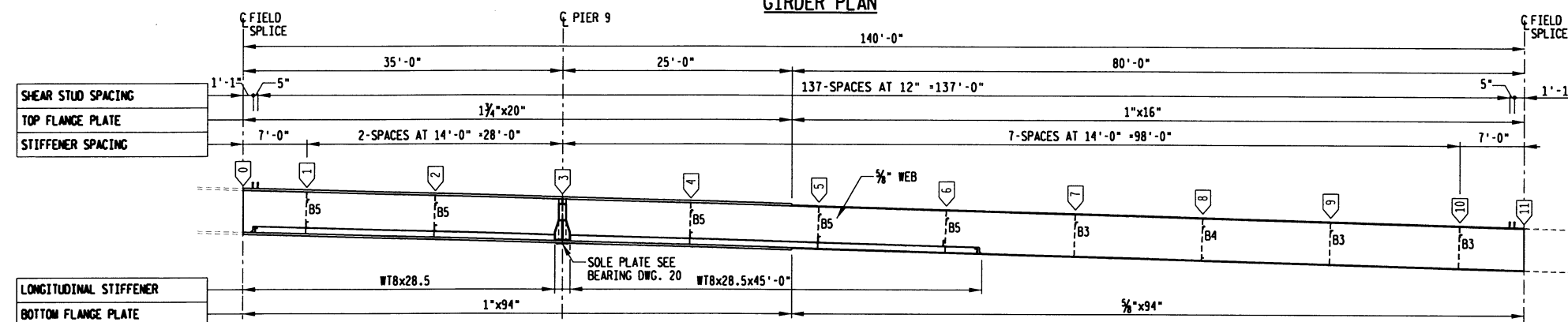


**NOTES:**

1. SHOP SPLICE OF THE FLANGES AND WEBS TO SUIT SUPPLIED PLATE LENGTHS SHALL BE STAGGERED BY 2'-6"
2. TB2\*\* INDICATES TEMPORARY BRACING. TO BE INSTALLED IN THE FIELD AND REMOVED AFTER CONCRETE DECK HAS CURED. FOR DETAILS SEE DWG. 51
3. ALL DIMENSIONS ARE MEASURED ALONG CENTER LINE OF GIRDER AND ARE GIVEN ON THE HORIZONTAL PLANE. MATERIAL TO BE LAID OUT ON RADIAL LINES FROM C/L CURVE. SEE SECTION B-B FOR DIMENSIONAL WORK POINT LOCATION.
4. FOR DETAILS OF INTERNAL DIAPHRAGM BRACING B2, B3 AND B4 SEE DWG. 51
5. FOR DETAILS OF TRANSVERSE STIFFENERS, SEE DWG. 53



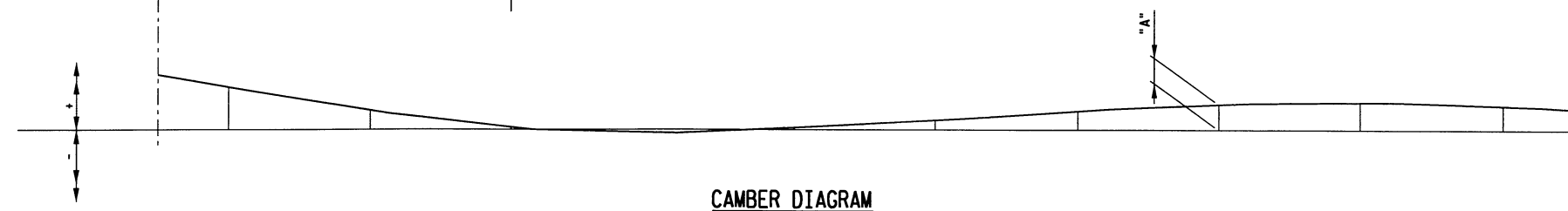
GIRDER PLAN



### GIRDER ELEVATION

|                    | 0       | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ELEVATION "L" (ft) | 678.805 | 678.638 | 678.300 | 677.967 | 677.609 | 677.255 | 676.896 | 676.532 | 676.164 | 675.788 | 675.408 |
| ELEVATION "R" (ft) | 679.219 | 679.050 | 678.710 | 678.355 | 678.014 | 677.658 | 677.296 | 676.930 | 676.558 | 676.180 | 675.797 |
| CAMBER "A" (in)    | 2.507   | 1.908   | 0.778   | 0.000   | -0.171  | 0.067   | 0.536   | 1.003   | 1.292   | 1.337   | 1.113   |

GIRDER GEOMETRY SCHEDULE

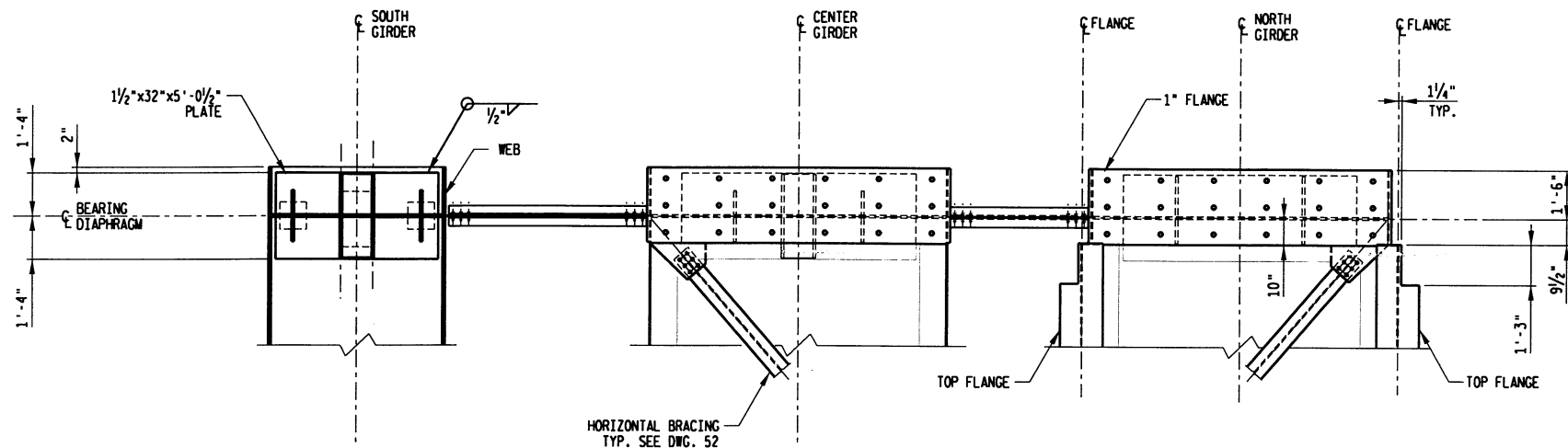


|                                                    |           |                 |                      |
|----------------------------------------------------|-----------|-----------------|----------------------|
| No.                                                | Date      | Revision        | By                   |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                 |                      |
| STRUCTURE B-32-202-0003                            |           |                 |                      |
| Const.<br>Spec.                                    | WIS. 1996 | Drawn<br>By DLM | Plans<br>Checked NDH |
| SOUTH GIRDER<br>SEGMENT E8                         |           |                 | SHEET 42 OF 56       |

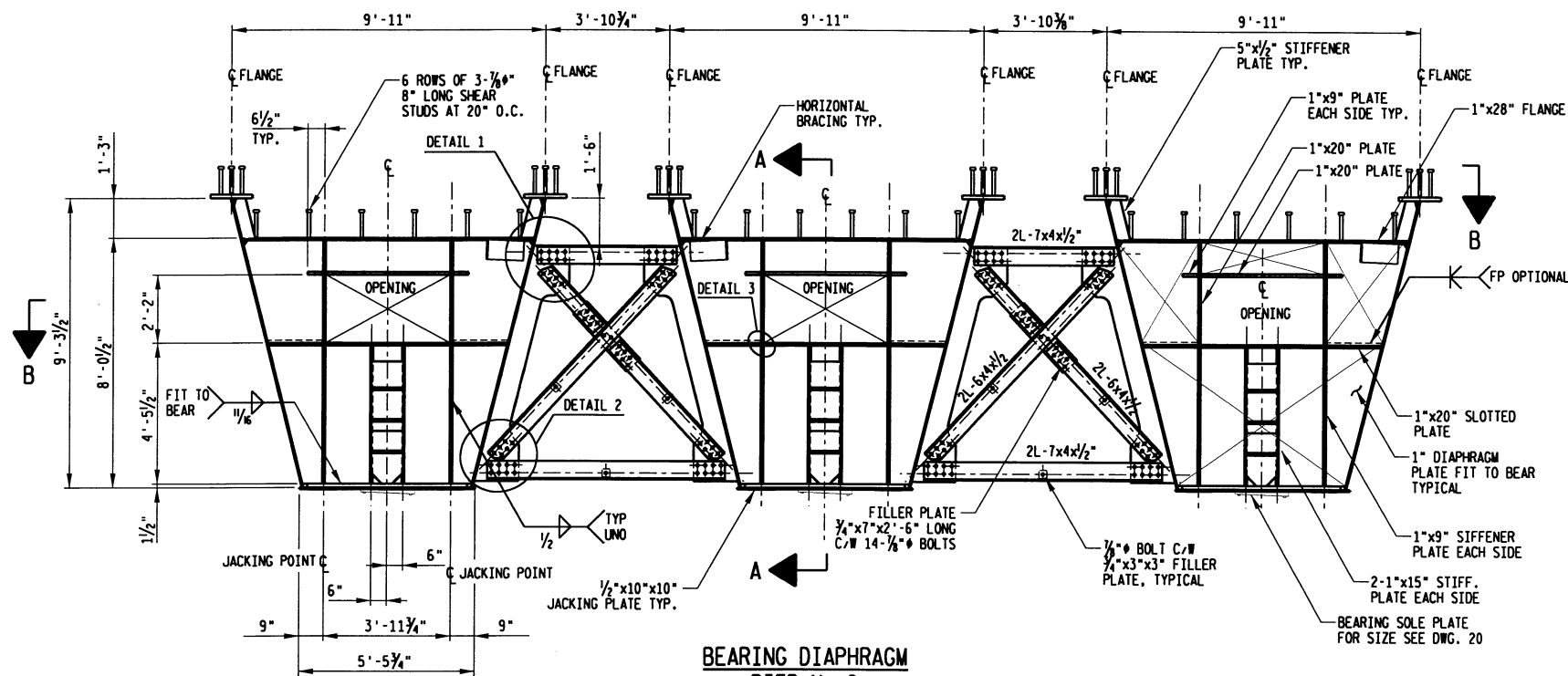




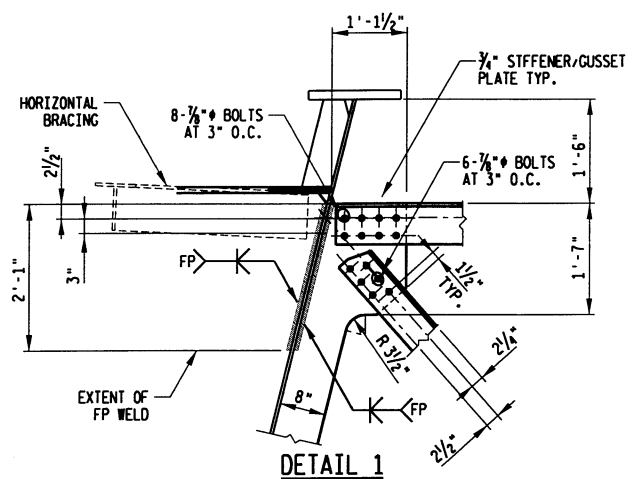




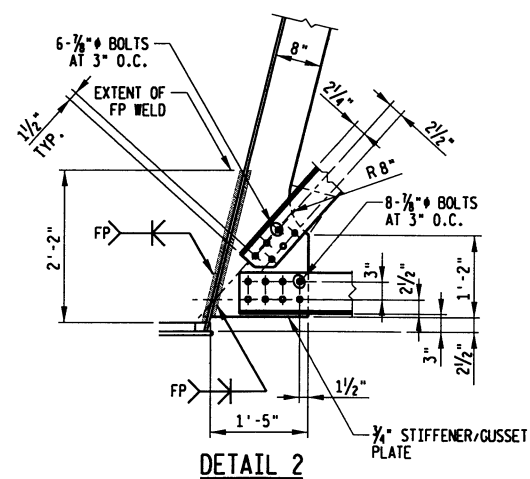
PLAN B-B



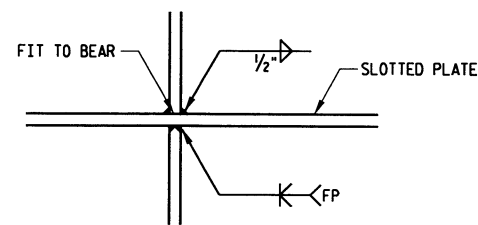
BEARING DIAPHRAGM  
PIER No. 8



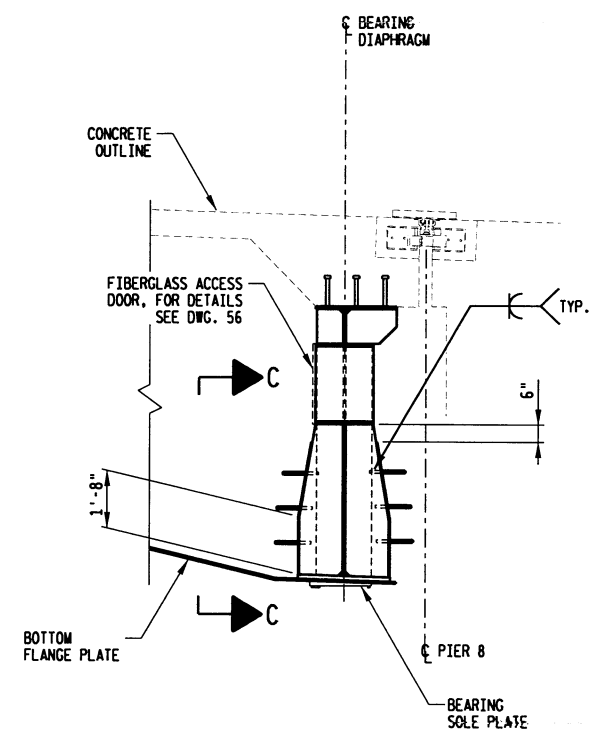
DETAIL 1



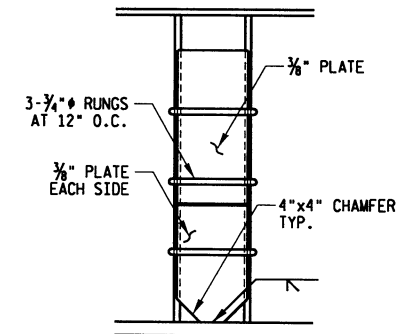
DETAIL 2



DETAIL 3



SECTION A-A

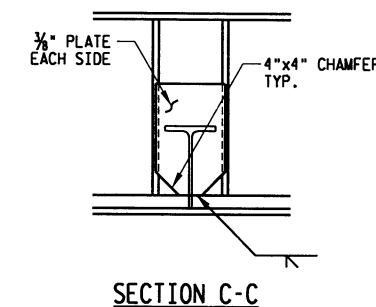
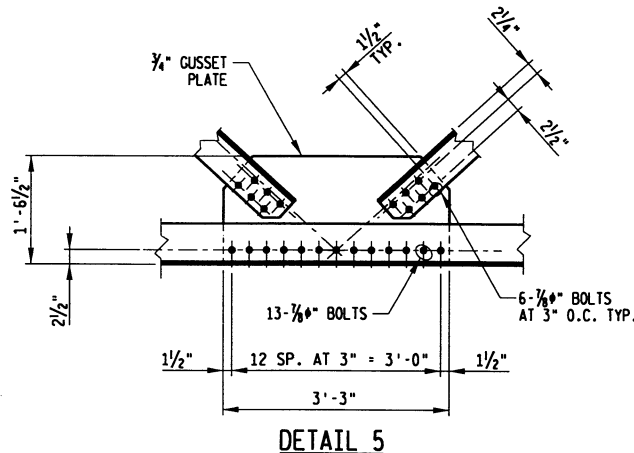
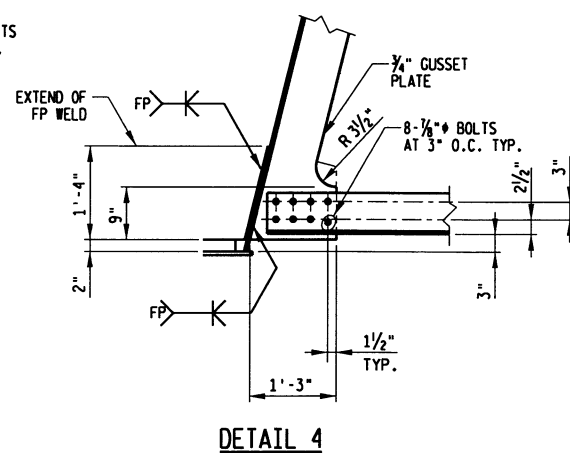
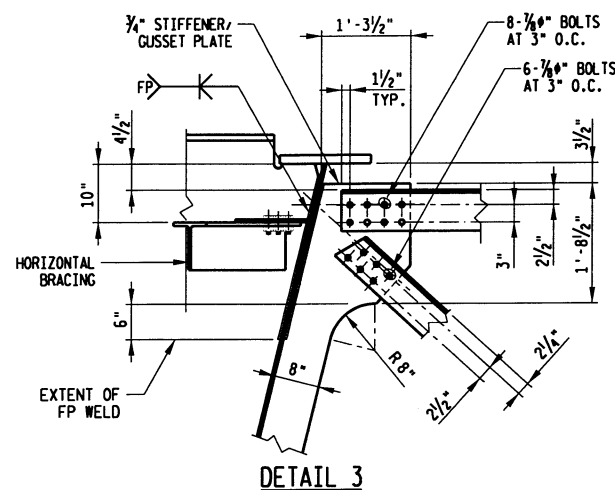
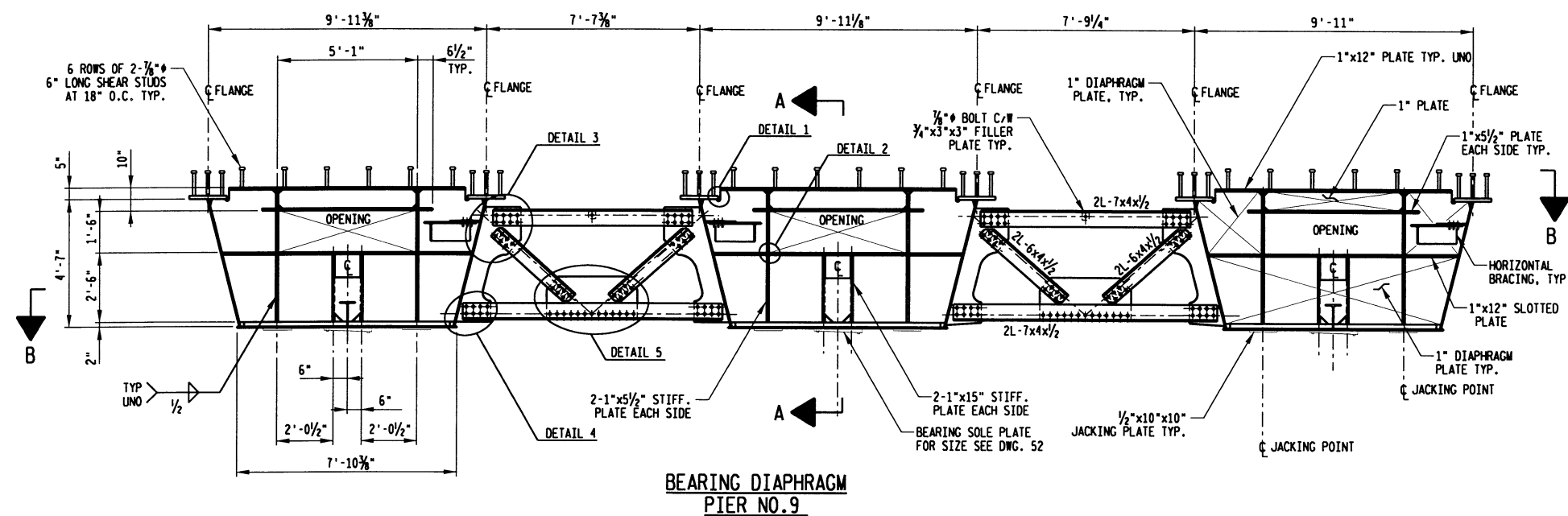
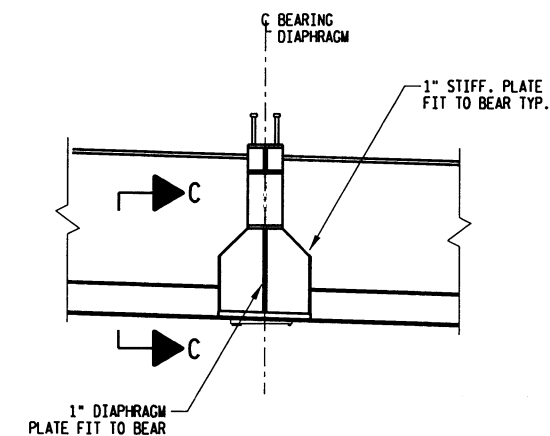
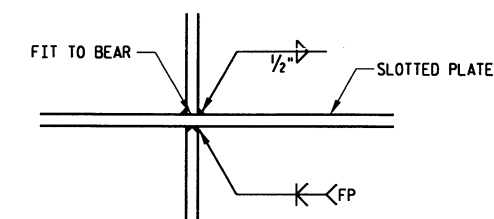
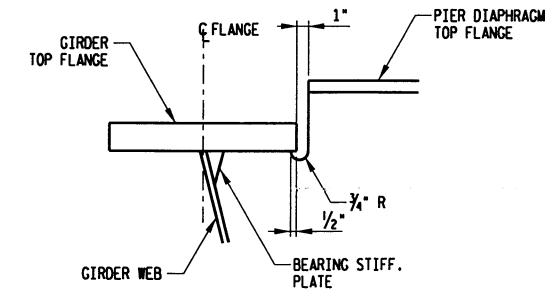
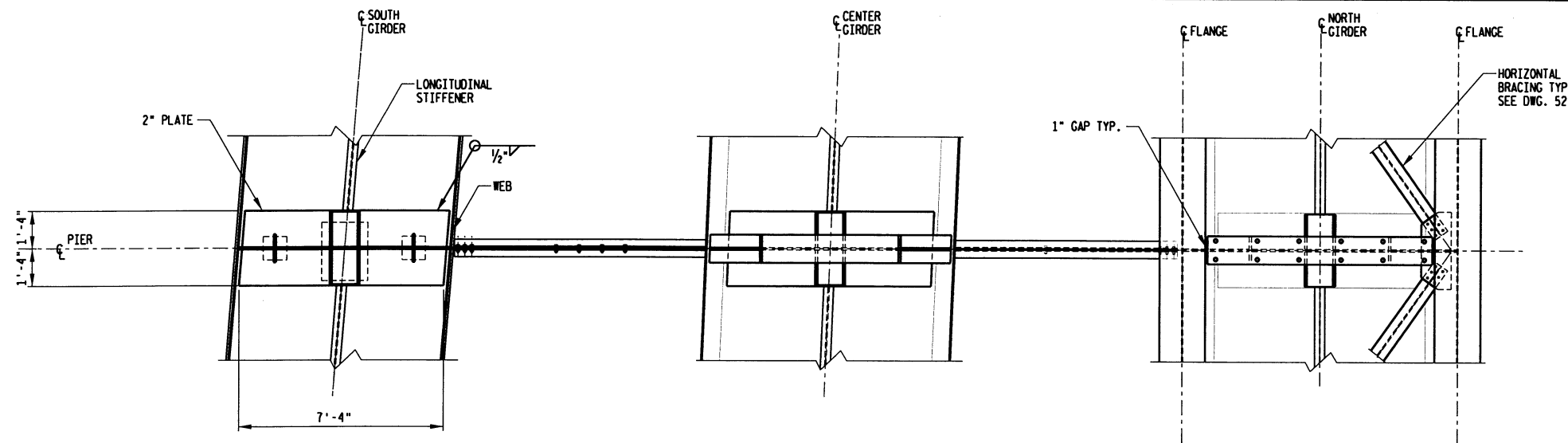


SECTION C-C

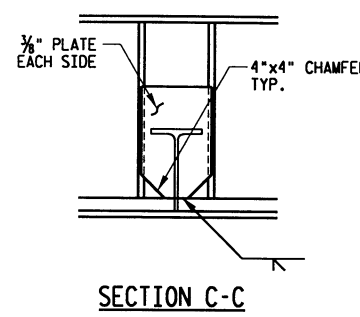
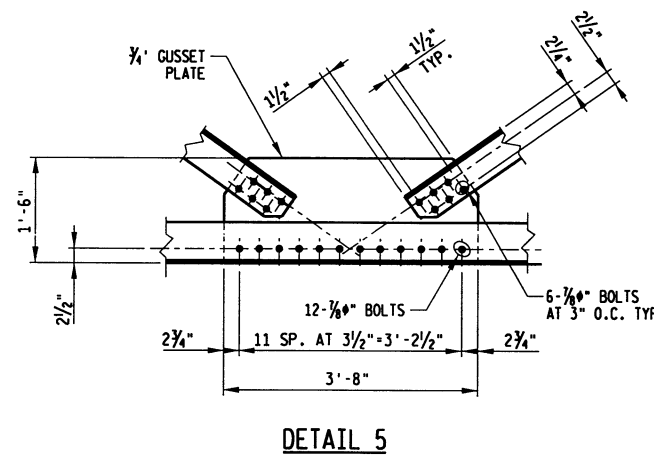
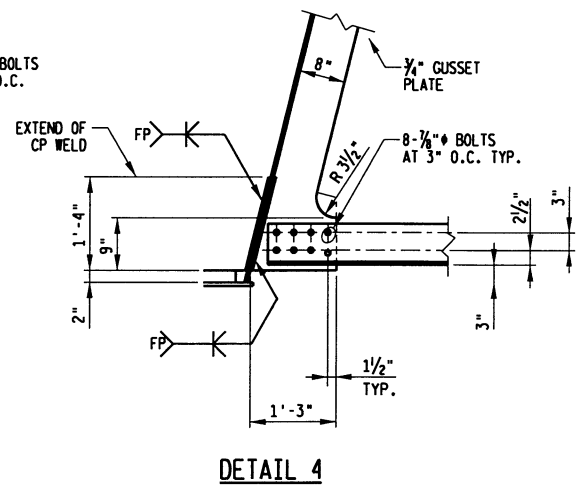
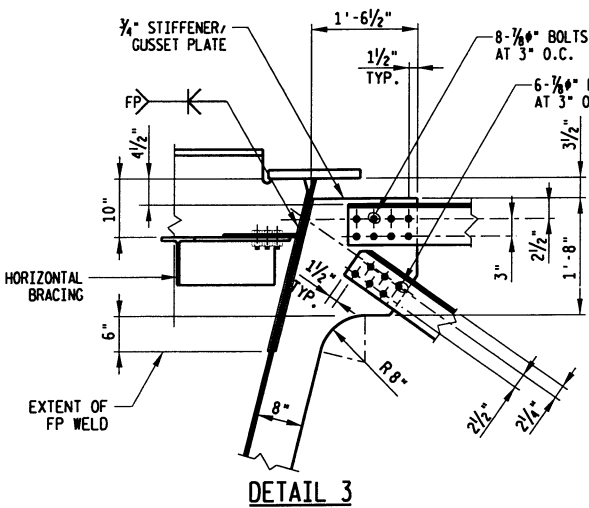
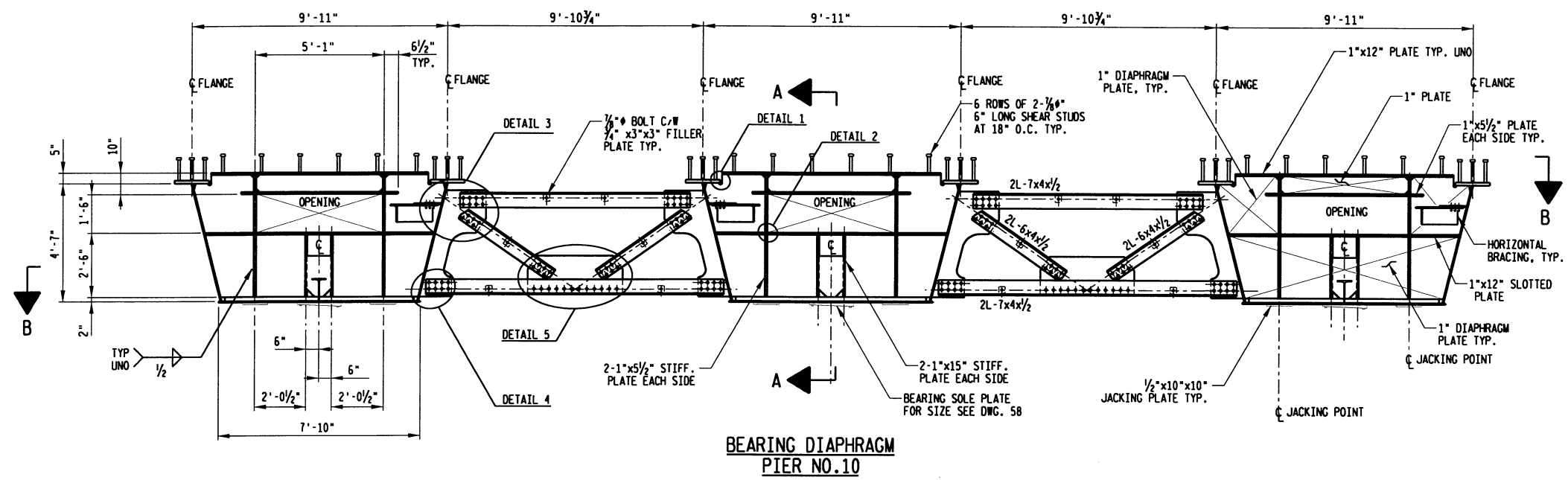
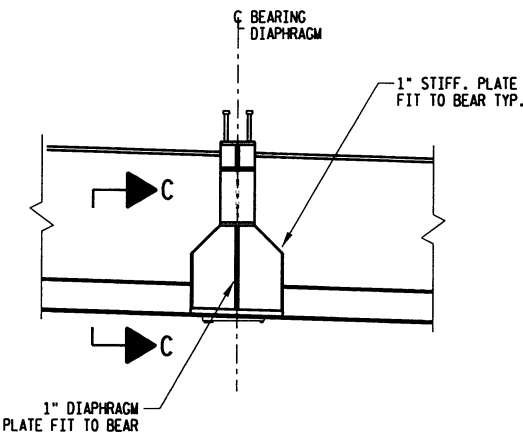
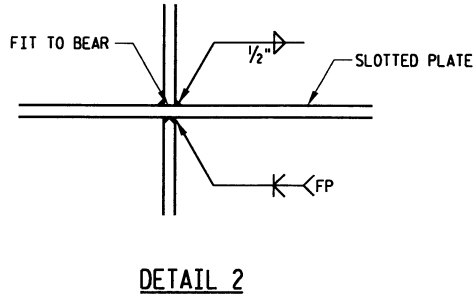
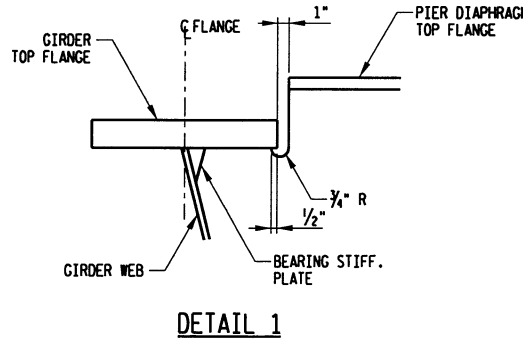
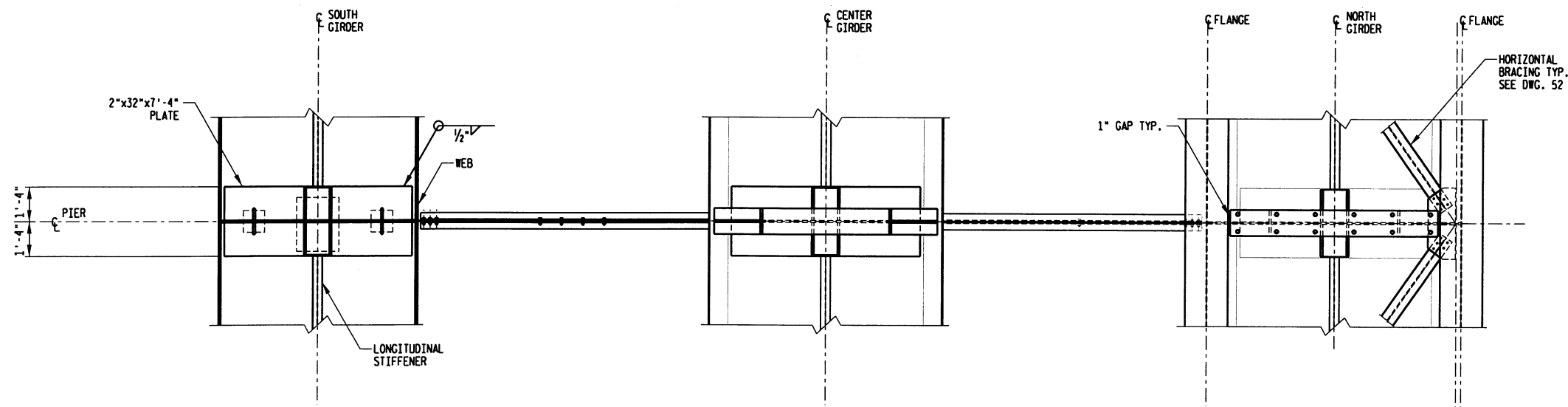
| No.                                                | Date      | Revision      | By             |
|----------------------------------------------------|-----------|---------------|----------------|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | P.S.G.         |
|                                                    |           | Plans Checked | NDH            |
| PIER No. 8 (3-GIRDER)<br>DIAPHRAGM DETAILS         |           |               | SHEET 46 OF 56 |

ESB/ESB  
LEVEL 50  
ESB/ESB/285  
LEVEL 50  
ESB/ESB/285  
LEVEL 50  
ESB/ESB/285  
LEVEL 50  
ESB/ESB/285  
LEVEL 50

SCALE  
PLOTTER  
No Pen 1cm  
LEVEL 50  
LEVEL 50  
LEVEL 50  
LEVEL 50  
LEVEL 50  
LEVEL 50

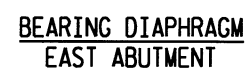


| No.                                                | Date      | Revision      | By             |
|----------------------------------------------------|-----------|---------------|----------------|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | PSG            |
|                                                    |           | Plans Checked | NDH            |
| PIER No. 9<br>DIAPHRAGM DETAILS                    |           |               | SHEET 47 OF 56 |

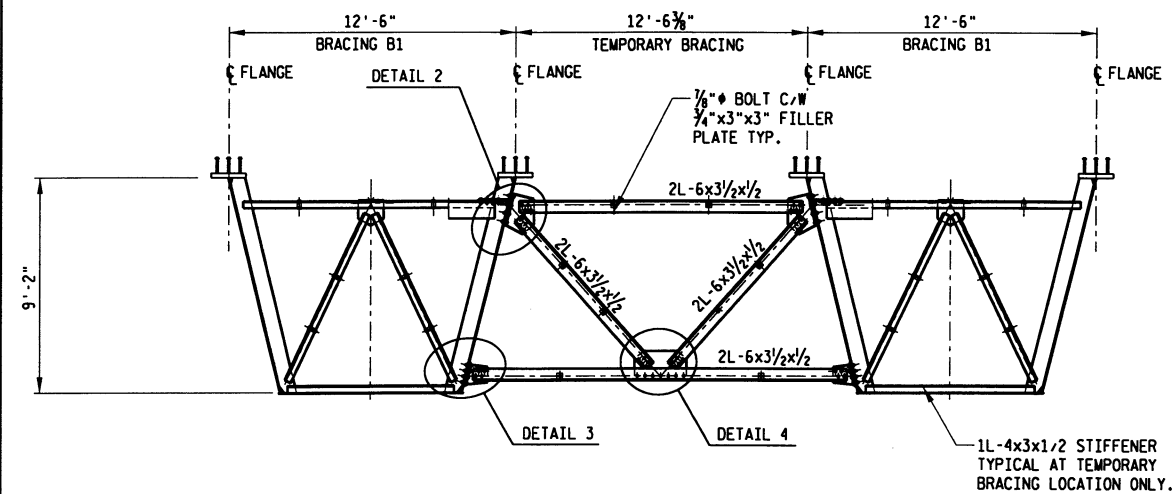


| No.                                                | Date      | Revision      | By             |
|----------------------------------------------------|-----------|---------------|----------------|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | PSG            |
|                                                    |           | Plans Checked | NDH            |
| PIER No.10<br>DIAPHRAGM DETAILS                    |           |               | SHEET 48 OF 56 |

SCALE: 1/4" = 1'-0"  
PLOTTER: No Pen Table  
DATE: 09/26/2002  
BY: JLD  
CHECKED: JLD  
APPROVED: JLD

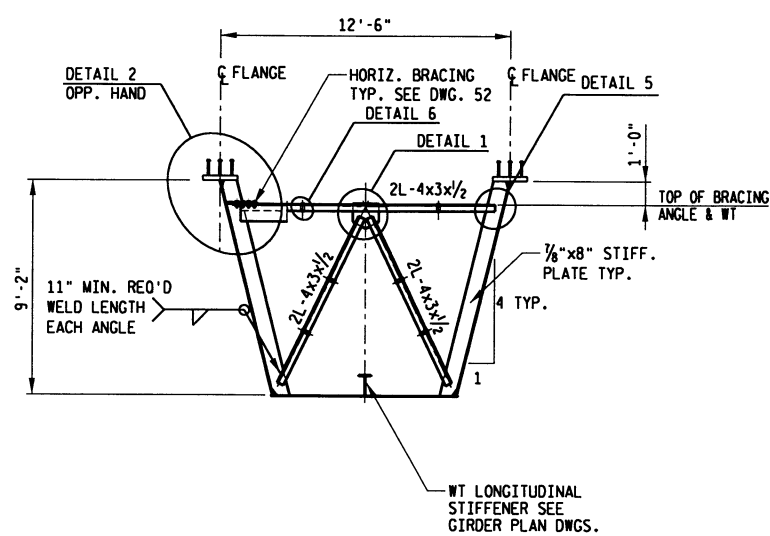


|                                                    |           |                  |     |
|----------------------------------------------------|-----------|------------------|-----|
|                                                    |           |                  |     |
| No.                                                | Date      | Revision         | By  |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                  |     |
| STRUCTURE B-32-202-0003                            |           |                  |     |
| Const.<br>Spec.                                    | WIS. 1996 | Drawn<br>By      | PSG |
|                                                    |           | Plans<br>Checked | NDH |
| EAST ABUTMENT<br>DIAPHRAGM DETAILS                 |           | SHEET 49 OF 56   |     |

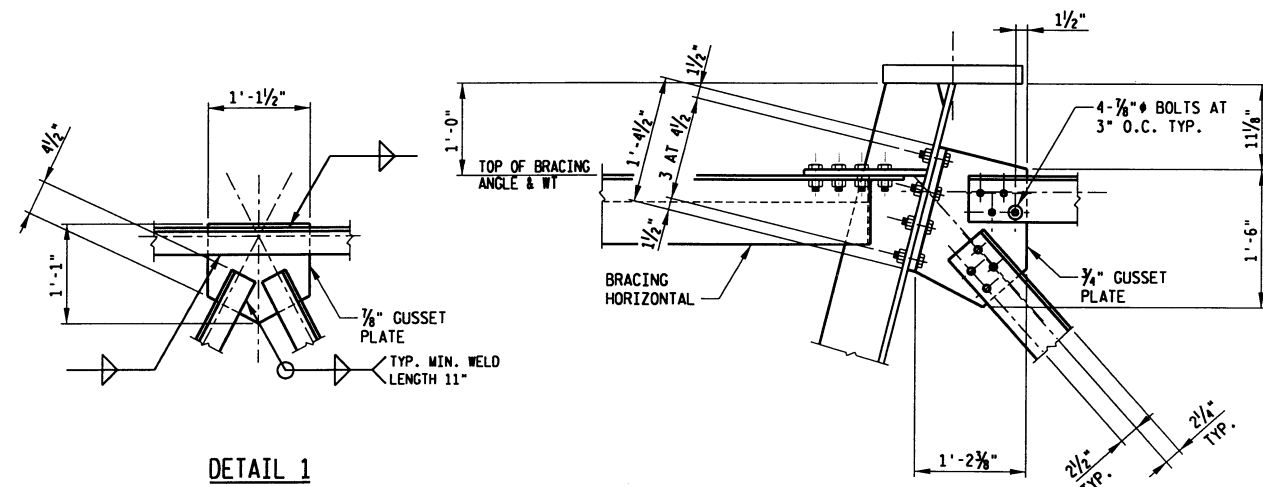


TEMPORARY BRACING TB1\*\*

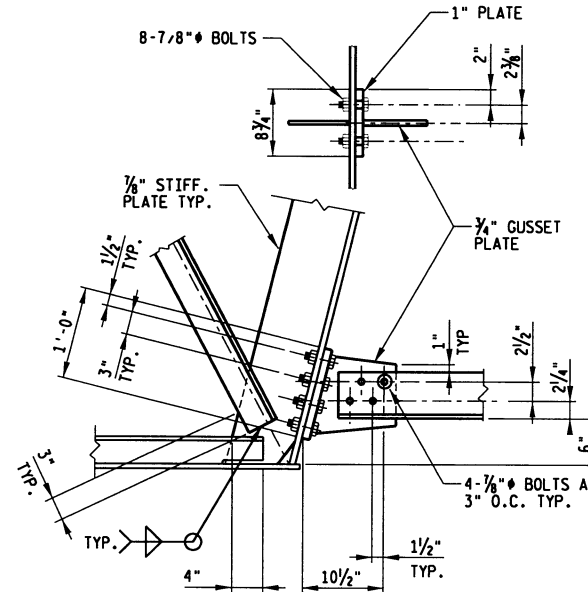
NOTE:  
TEMPORARY BRACING DURING  
CONSTRUCTION PERIOD ONLY.  
BRACING AND GUSSET PLATE  
TO BE REMOVED AFTER CAST  
IN PLACE CONCRETE SLAB  
COMPLETE AND CURED. REPLACE  
BOLTS AND NUTS TO PLUG HOLES.



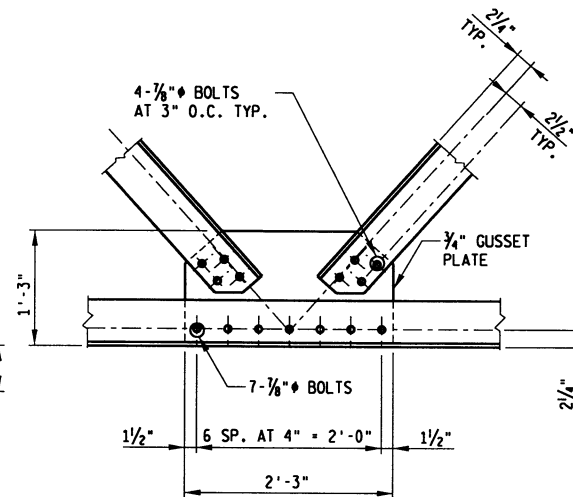
INTERNAL GIRDER BRACING B1



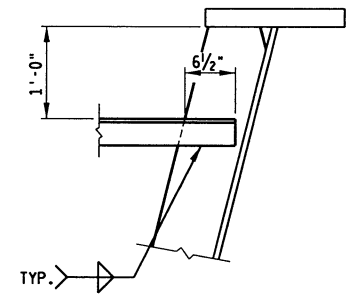
DETAIL 1



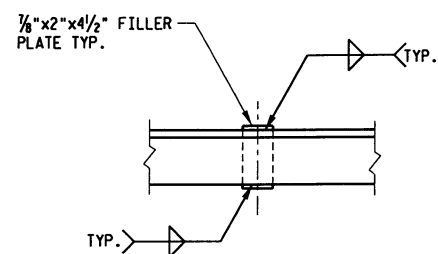
DETAIL 3



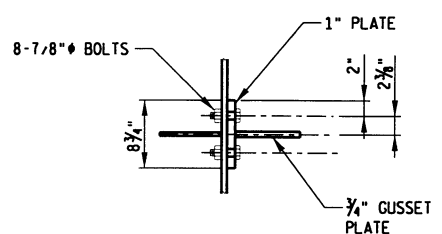
DETAIL 4



DETAIL 5

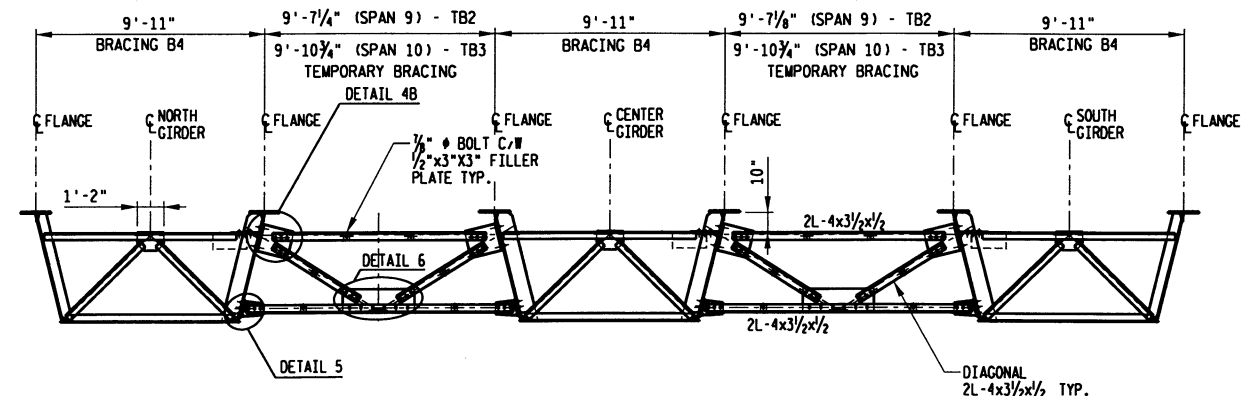


DETAIL 6

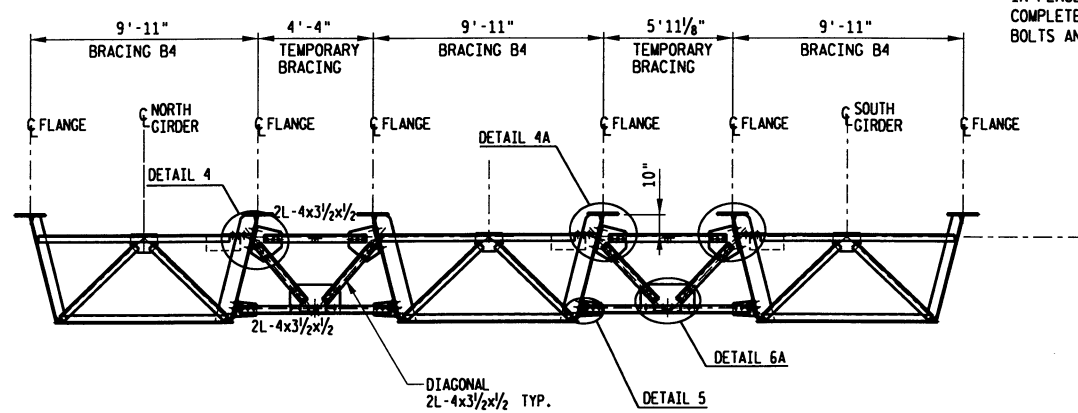


DETAIL 2

| No.                                                | Date      | Revision      | By             |
|----------------------------------------------------|-----------|---------------|----------------|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | PSG            |
|                                                    |           | Plans Checked | NDH            |
| VERTICAL BRACING<br>DETAILS - SHEET 1              |           |               | SHEET 50 OF 56 |

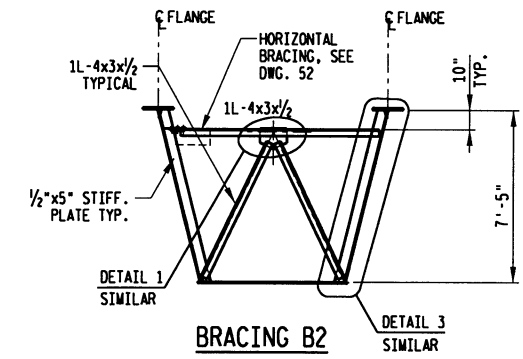


**TEMPORARY BRACING TB2\*\* AND TB3\*\***  
TYP. AT MID SPAN 9 AND 10

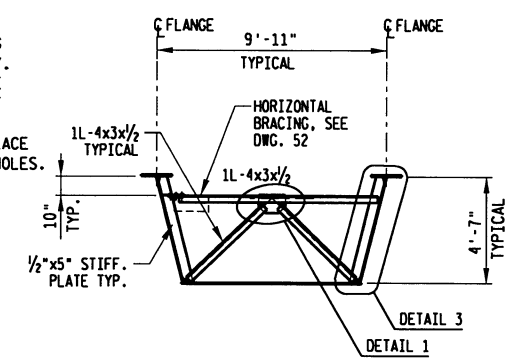


**TEMPORARY BRACING TB4\*\***  
TYP. AT MID SPAN 8

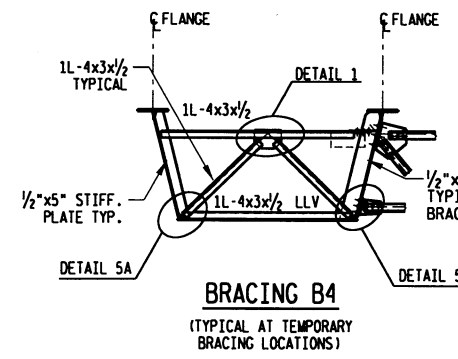
NOTE:  
TEMPORARY BRACING DURING  
CONSTRUCTION PERIOD ONLY.  
BRACING AND GUSSET PLATE  
TO BE REMOVED AFTER CAST  
IN PLACE CONCRETE SLAB  
COMPLETE AND CURED. REPLACE  
BOLTS AND NUTS TO PLUG HOLES.



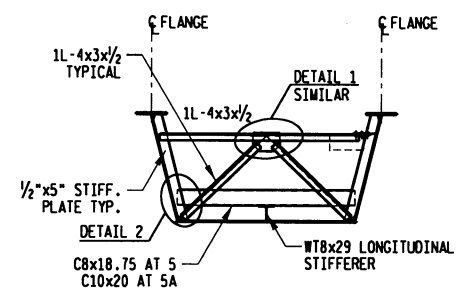
**BRACING B2**



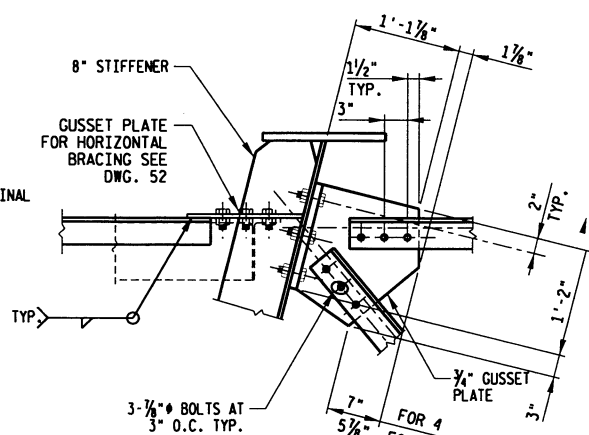
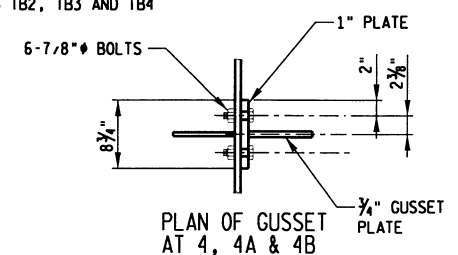
**BRACING B3**  
(TYPICAL BRACING)



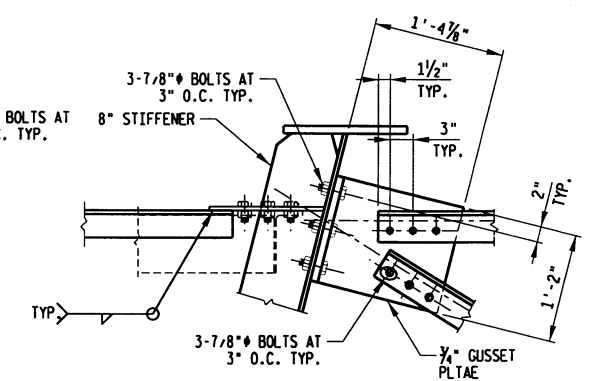
**BRACING B4**  
(TYPICAL AT TEMPORARY  
BRACING LOCATIONS)



**BRACING B5 AND 5A**  
(TYPICAL AT LONGITUDINAL  
STIFFENER)

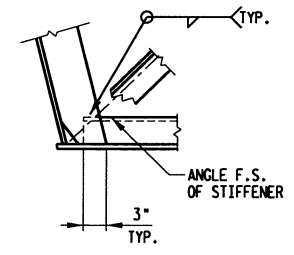


**DETAIL 4 AND 4A**

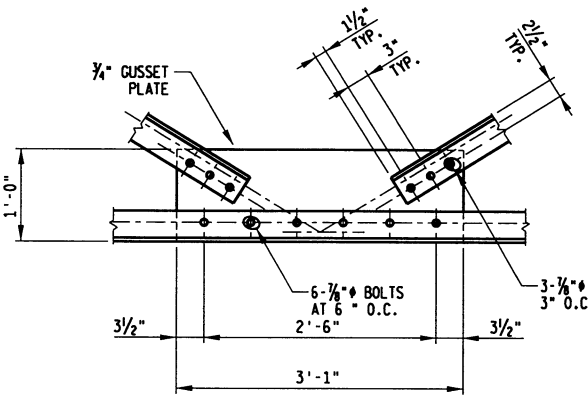


**DETAIL 4B**

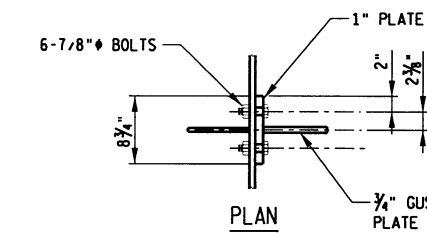
**INTERNAL GIRDER BRACING**



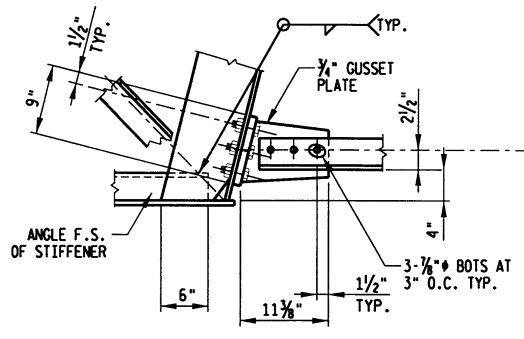
**DETAIL 5A**



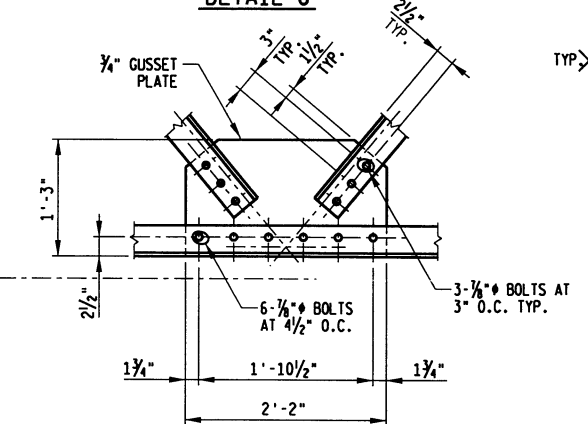
**DETAIL 6**



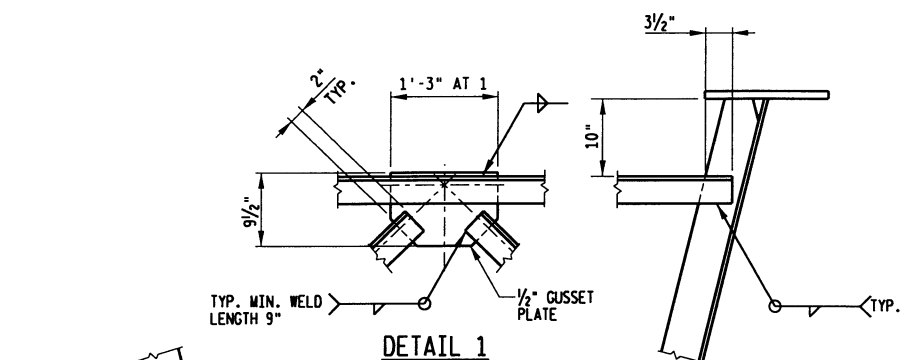
**PLAN**



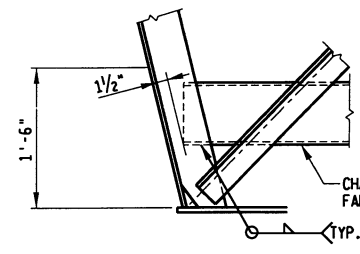
**DETAIL 5**



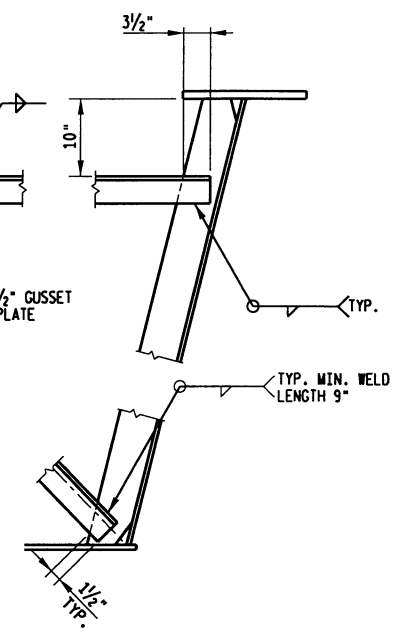
**DETAIL 6A**



**DETAIL 1**



**DETAIL 2**



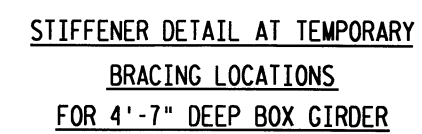
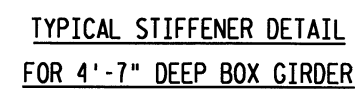
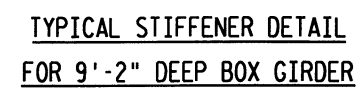
**DETAIL 3**

| No.                                                | Date      | Revision      | By             |
|----------------------------------------------------|-----------|---------------|----------------|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| <b>STRUCTURE B-32-202-0003</b>                     |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | PSG            |
|                                                    |           | Plans Checked | NDH            |
| <b>VERTICAL BRACING<br/>DETAILS - SHEET 2</b>      |           |               | SHEET 51 OF 56 |

SCALE: 1/4" = 1'-0"  
DATE: 09/26/2002  
DRAWN: J. L. DUNN  
CHECKED: J. L. DUNN  
APPROVED: J. L. DUNN



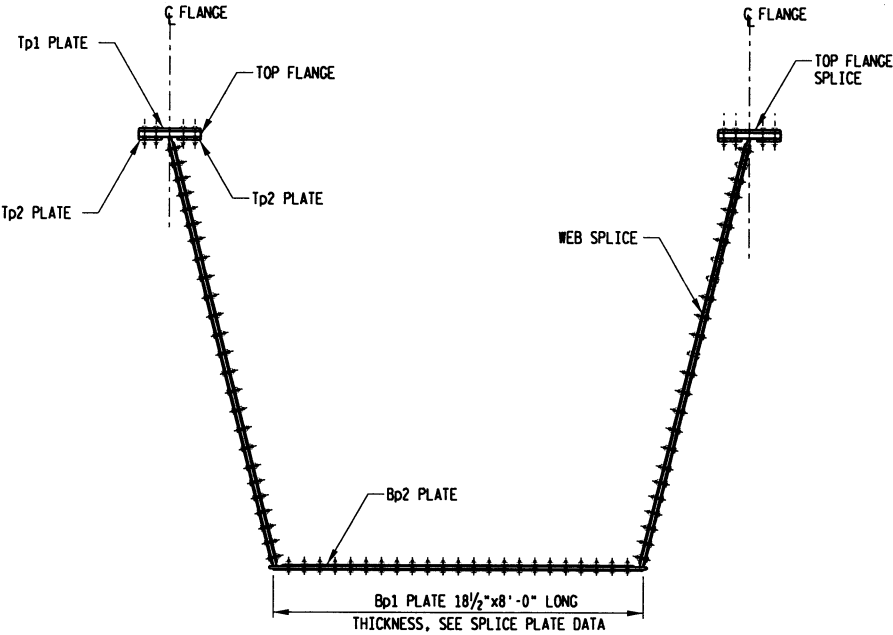
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|----------------------------------------------------|-----------|-----------------|----------------------|
|                                                    |           |                 |                      |
| No.                                                | Date      | Revision        | By                   |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                 |                      |
| STRUCTURE B-32-202-0003                            |           |                 |                      |
| Const.<br>Spec.                                    | WIS. 1996 | Drawn<br>By PSG | Plans<br>Checked NDH |
| TOP FLANGE HORIZONTAL<br>BRACING DETAILS           |           |                 | SHEET 52 OF 56       |



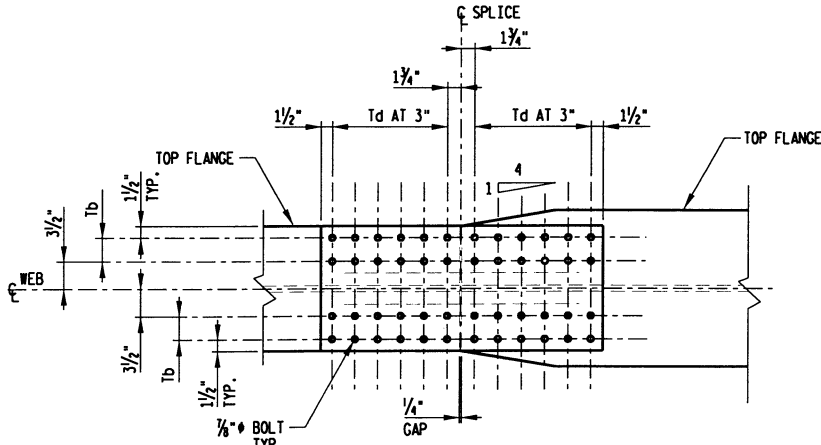
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|                                                    |           |                  |     |
| No.                                                | Date      | Revision         | By  |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                  |     |
| STRUCTURE B-32-202-0003                            |           |                  |     |
| Const.<br>Spec.                                    | WIS. 1996 | Drawn<br>By      | PSG |
|                                                    |           | Plans<br>Checked | NDH |
| TRANSVERSE STIFFENER<br>PLATE DETAIL               |           | SHEET 53 OF 56   |     |

SPLICE PLATE DATA

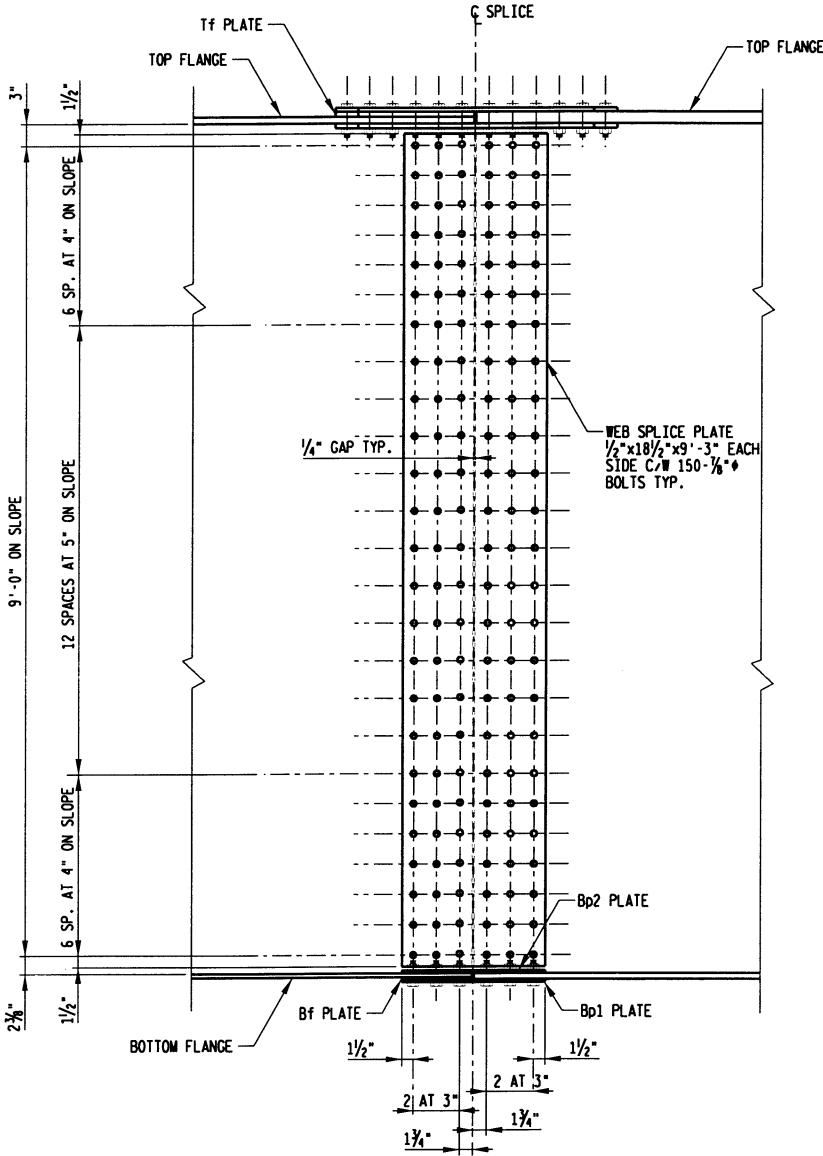
| SPLICE NUMBER | PLATE THICKNESS<br>Tp1 AND Tp2 | TOP FLANGE |      | FILLER PLATE THK. "Tf" | NUMBER OF BOLTS | BOTTOM FLANGE                  |                         |                        |                 |
|---------------|--------------------------------|------------|------|------------------------|-----------------|--------------------------------|-------------------------|------------------------|-----------------|
|               |                                | "Tb"       | "Td" |                        |                 | PLATE THICKNESS<br>Bp1 AND Bp2 | No. OF SPACING<br>"Bsp" | FILLER PLATE THK. "Bf" | NUMBER OF BOLTS |
| SP 9          | 3/4"                           | 4"         | 4    | 1/2"                   | 40              | 3/8"                           | 22                      | 1/8"                   | 138             |
| SP 10         | 7/8"                           | 5"         | 5    | 3/8"                   | 48              | 1/2"                           | 21                      | 1/4"                   | 132             |
| SP 11         | 1/2"                           | 3"         | 3    | 1/4"                   | 32              | 1/2"                           | 21                      | 1/4"                   | 132             |
| SP 12         | 1/2"                           | 3"         | 3    | 1/4"                   | 32              | 1/2"                           | 21                      | 1/4"                   | 132             |
| SP 13         | 7/8"                           | 5"         | 5    | 3/8"                   | 48              | 1/2"                           | 21                      | 1/4"                   | 132             |
| SP 14         | 3/4"                           | 4"         | 4    | 1/2"                   | 40              | 3/8"                           | 22                      | 1/8"                   | 138             |



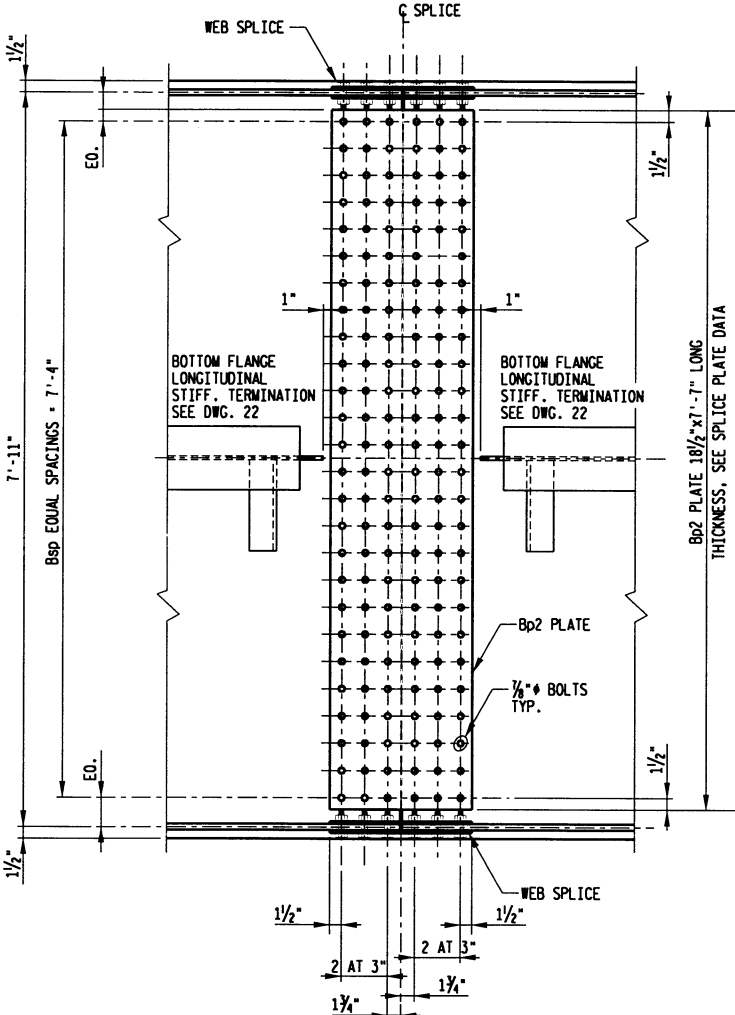
TYP. SPLICE SECTION



TOP FLANGE SPLICE PLAN



WEB SPLICE ELEVATION



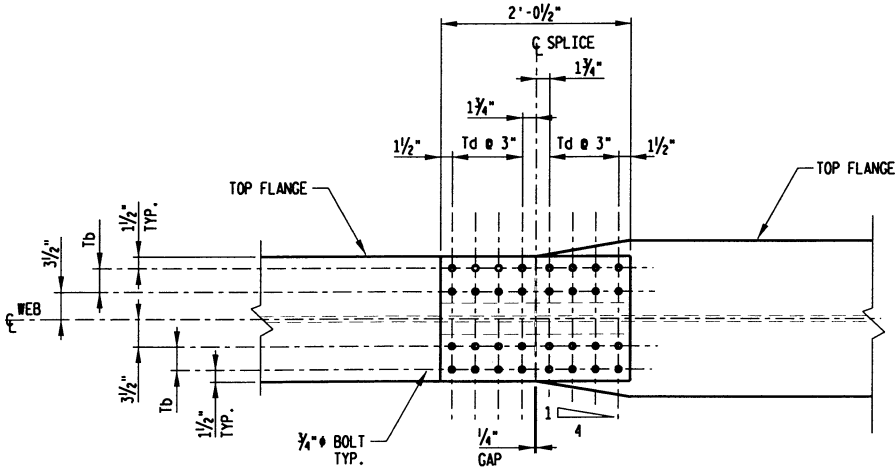
BOTTOM FLANGE SPLICE PLAN

|                                                    |           |                 |                      |
|----------------------------------------------------|-----------|-----------------|----------------------|
| No.                                                | Date      | Revision        | By                   |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |                 |                      |
| STRUCTURE B-32-202-0003                            |           |                 |                      |
| Const. Spec.                                       | WIS. 1996 | Drawn By<br>PSG | Plans Checked<br>NDH |
| GIRDER SPLICE DETAILS<br>SHEET 1                   |           |                 | SHEET 54 OF 56       |

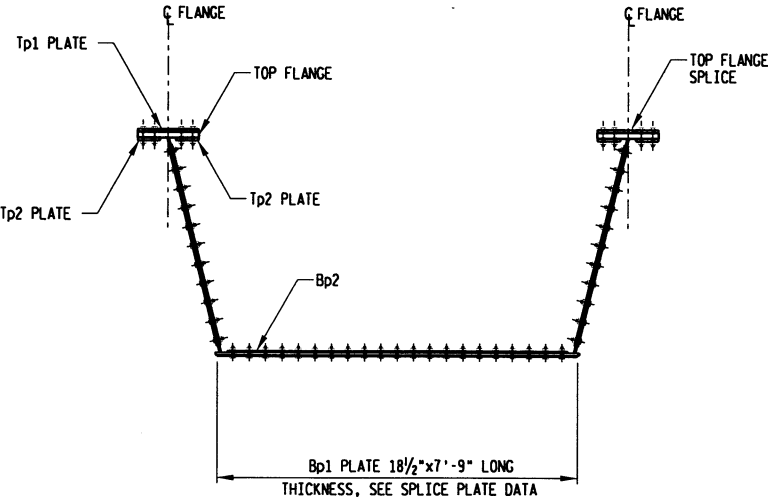
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#PLOTTER  
#No Pen Table  
#DATE  
#FILE  
#DWG

SPLICE PLATE DATA

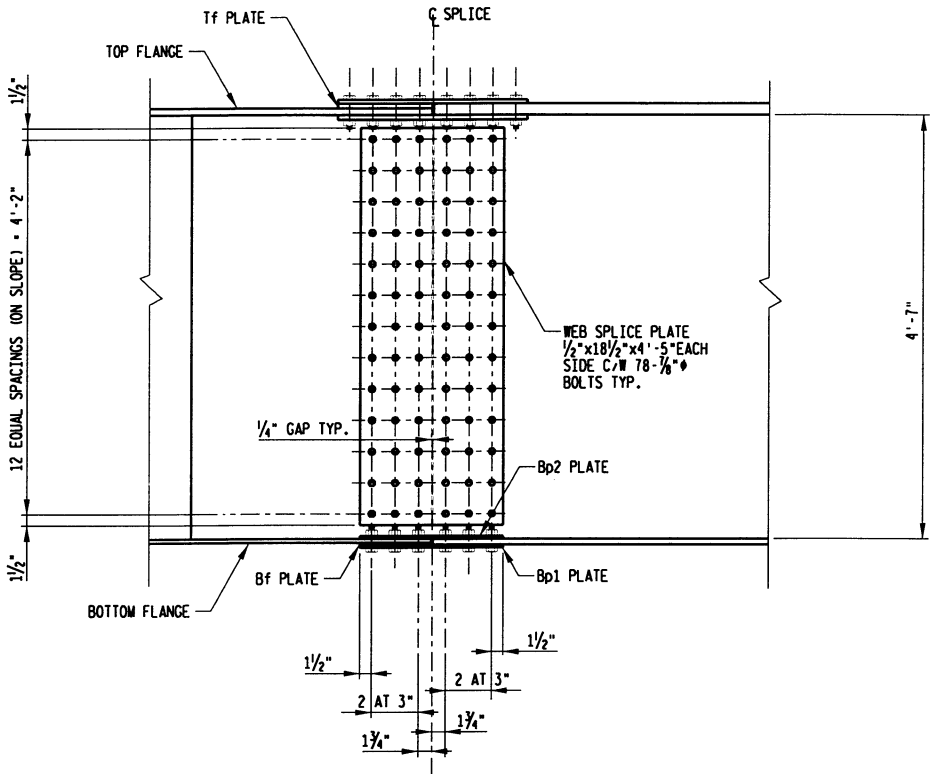
| SPLICE NUMBER | PLATE THICKNESS<br>Tp1 AND Tp2 | No. OF SPACING |      | FILLER PLATE THK. "Tf" | NUMBER OF BOLTS | BOTTOM FLANGE                  |                        |
|---------------|--------------------------------|----------------|------|------------------------|-----------------|--------------------------------|------------------------|
|               |                                | "Tb"           | "Td" |                        |                 | PLATE THICKNESS<br>Bp1 AND Bp2 | FILLER PLATE THK. "Bf" |
| SP 15         | 5/8"                           | 4"             | 3    | 1/2"                   | 32              | 5/8"                           | 5/8"                   |
| SP 16         | 5/8"                           | 3"             | 3    | 1/4"                   | 32              | 5/8"                           | 1/4"                   |
|               |                                |                |      |                        |                 |                                |                        |



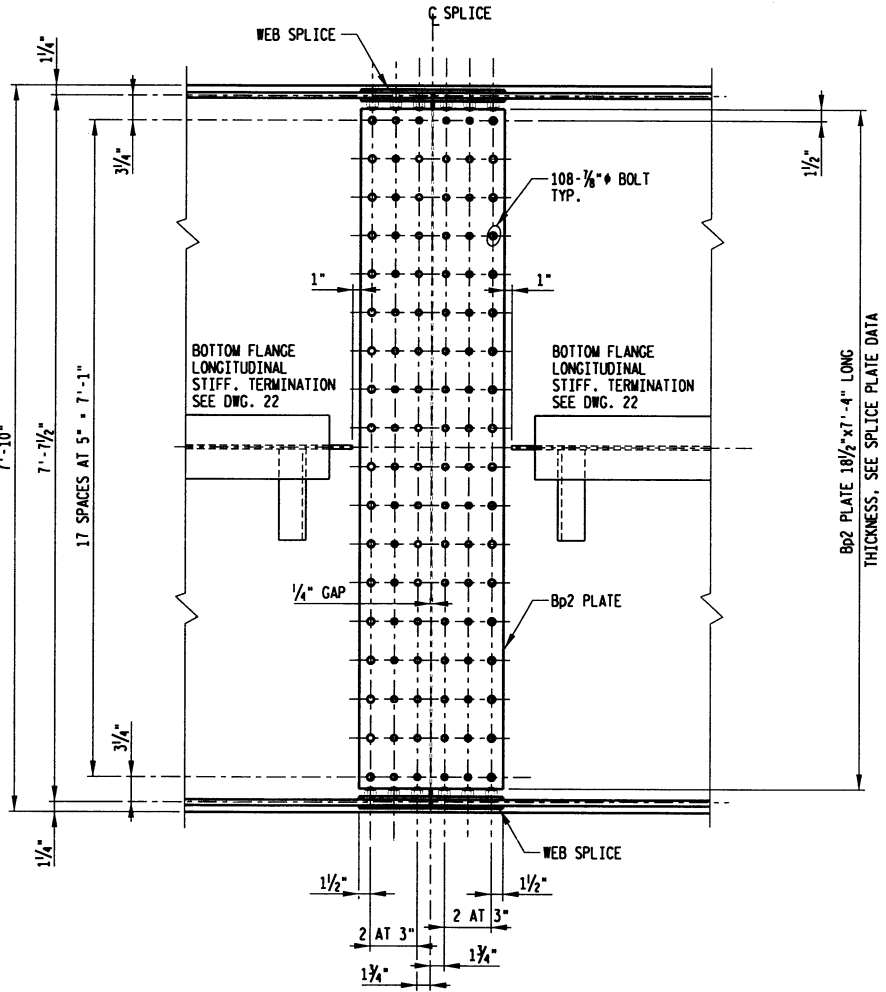
TOP FLANGE SPLICE PLAN



TYP. SPLICE SECTION



WEB SPLICE ELEVATION

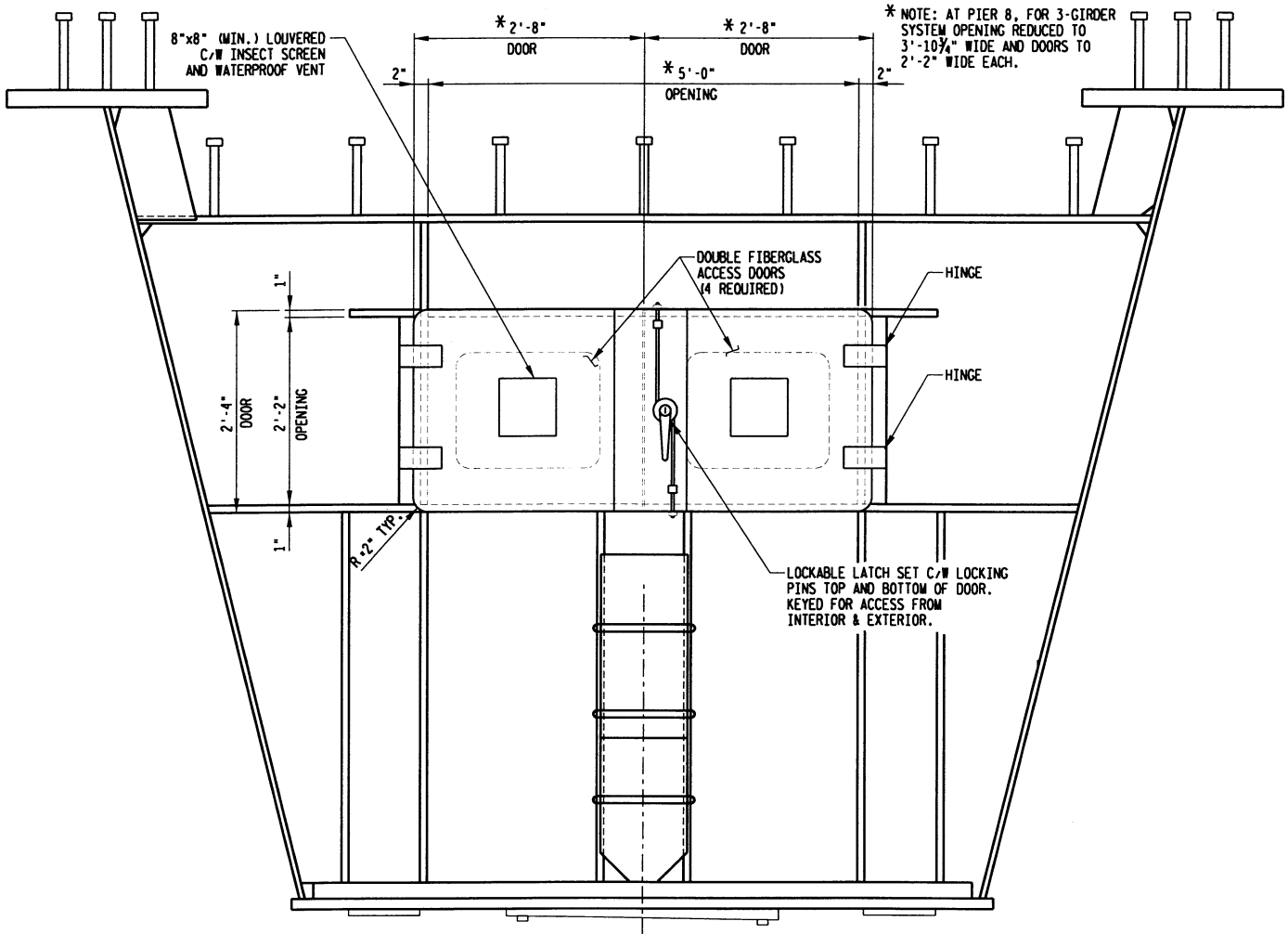


BOTTOM FLANGE SPLICE PLAN

| No.                                                | Date      | Revision      | By             |
|----------------------------------------------------|-----------|---------------|----------------|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | PSG            |
|                                                    |           | Plans Checked | NDH            |
| GIRDER SPLICE DETAILS<br>SHEET 2                   |           |               | SHEET 55 OF 56 |

LEGEND

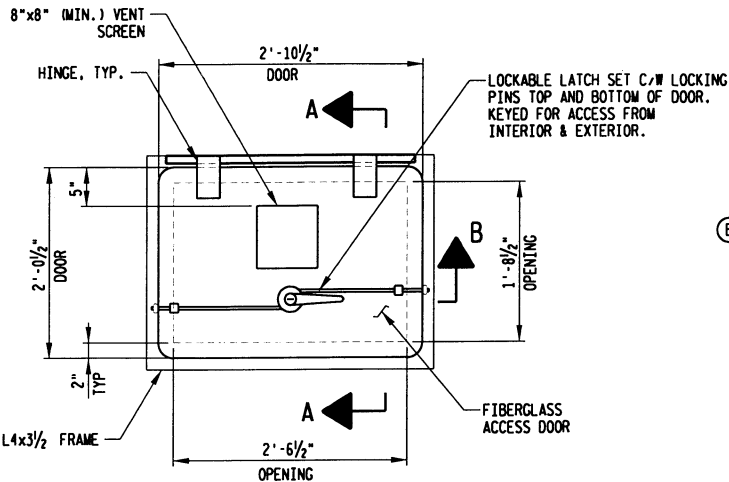
- (A) 6" WIDE REINFORCED FULL PERIMETER OF DOOR WITH FIBERGLASS MATERIAL SAME AS DOOR THICKNESS.
- (B) 1/8"x3/4" NEOPRENE SEAL ATTACHED ALL AROUND PERIMETER OF FIBERGLASS DOOR TO ATTAIN A WATERTIGHT FIT.
- (C) 10" WIDE FIBERGLASS MATERIAL, THICKNESS TO MATCH DOOR. FIBERGLASS STRIP TO BE BONDED TO SAME DOOR AS DOOR WITH LATCH.



ACCESS DOOR ELEVATION  
(FROM INTERIOR OF 9'-2" GIRDER)

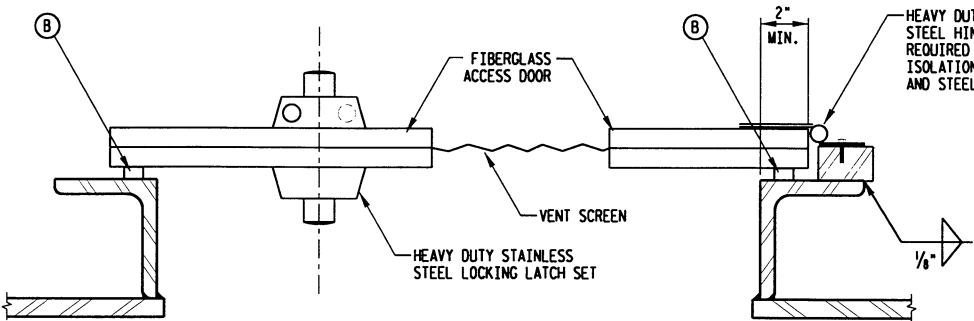
DOOR SHALL HAVE A WATERTIGHT FIT ALL AROUND.  
FIBERGLASS ACCESS DOOR INCLUDING STAINLESS STEEL HAREWARE AND NEOPRENE SEAL SHALL BE PAID FOR AS "ACCESS DOORS", EACH.

DOORS REQUIRED AT:  
PIER 5 - SEGMENTS E1 NORTH & SOUTH  
PIER 8 - SEGMENTS E6 NORTH & SOUTH  
TOTAL 4 SETS REQUIRED (5'-4" Wx2'-2"D)  
  
PIER 8 - SEGMENTS E7 NORTH, CENTER & SOUTH  
TOTAL 3 SETS REQUIRED (4'-4" Wx2'-2"D)

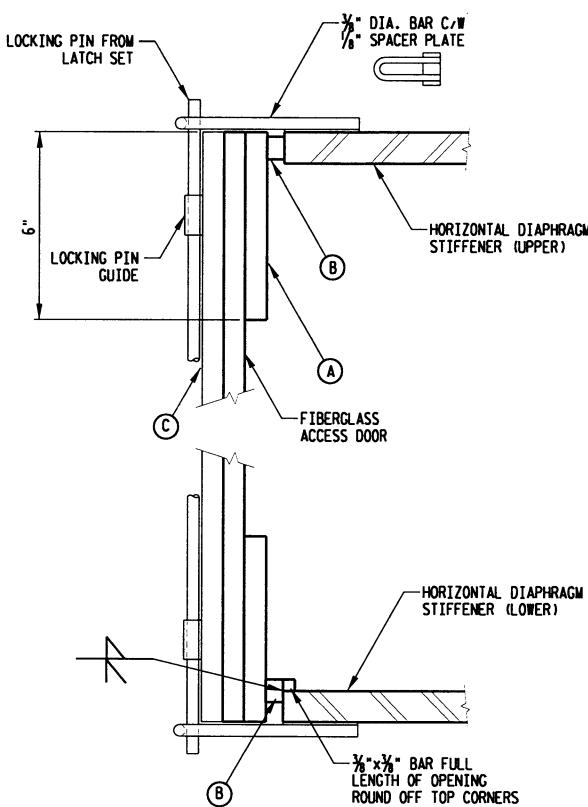


HATCH ACCESS DOOR PLAN

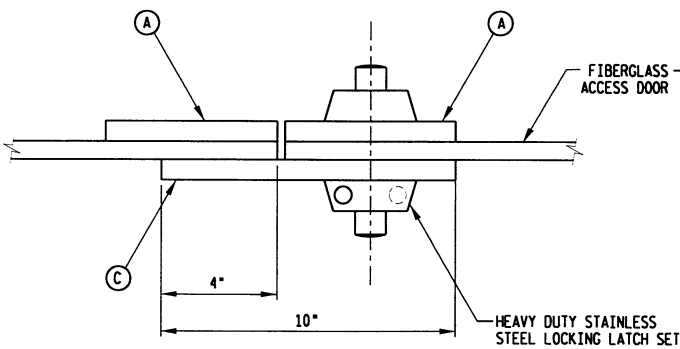
DOORS REQUIRED AT:  
EAST ABUTMENT - SEGMENTS E9 NORTH, CENTER & SOUTH  
TOTAL 3 SETS REQUIRED (2'-10 1/2" Wx2'-0 1/2" D)



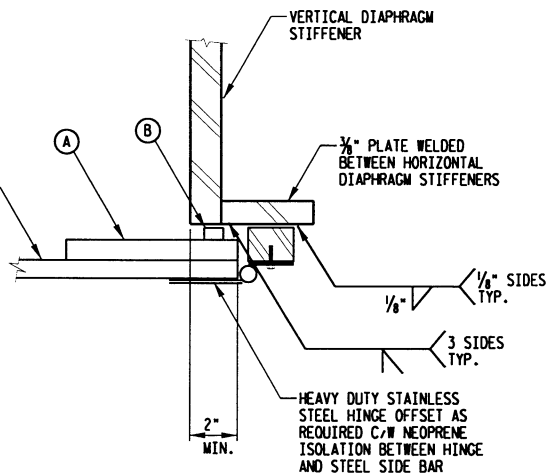
HATCH ACCESS DOOR-SECTION A-A



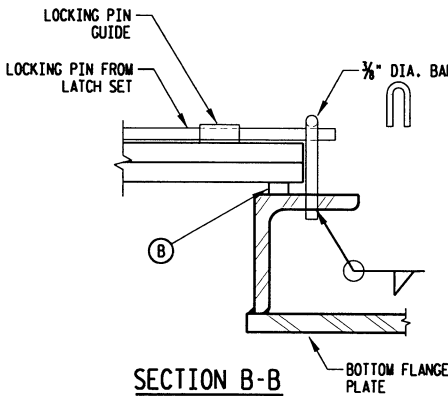
SECTION THRU TOP AND  
BOTTOM OF ACCESS DOOR



DETAIL BETWEEN DOUBLE DOORS



HINGE DETAIL



SECTION B-B

|                                                    |           |               |                |
|----------------------------------------------------|-----------|---------------|----------------|
| No.                                                | Date      | Revision      | By             |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |           |               |                |
| STRUCTURE B-32-202-0003                            |           |               |                |
| Const. Spec.                                       | WIS. 1996 | Drawn By      | PSG            |
|                                                    |           | Plans Checked | NDH            |
| FIBERGLASS<br>ACCESS DOOR DETAILS                  |           |               | SHEET 56 OF 56 |

BRIDGE  
LEVELS  
LEVELS  
LEVELS  
LEVELS  
LEVELS  
LEVELS

SCALE  
PLOTTER  
No Pen Table  
DATE  
FILE  
DRAW