GIRDER 423A

1-PL-12x5/8x1'-0 1/2-ab(FILL)<T

1-PL-12x5/8x10'-0-b

1-PL-12x1'2x48'-6-c

NO PAINT TOP OF TOP FLG.

1-PL-12x1'8x47'-6-g

1-PL-12x1x11'-0-f

1-PL12x1/4x1'-0 1/2-aa(FILL)<T

1-PL-12x1x10'-0 3/16-d

1-PL-12x1x10'-0-h

1-PL-12x1x1-aa(FILL)

1-BR-5x3/8x4'-11-K

1-BR-5x3/8x4'-11-ah

1-WEB PL 61 3/8x3/8x68'-6 3/16-a

1-PL-12x1'8x2'-1 1/2-n
14-325 7/8"ø x 5 3/4 (FULLY TORQED)
14-HW

2-PL-13x3/8x4'-7 1/2-m
28-325 7/8"ø x 2 1/2 (FINGER TIGHT)
28-HW

1-BR 5'4x1'4x2'-1 1/2-p

1-PL-12x1 1/8x2'-1 1/2-n
14-325 7/8"ø x 5 3/4 (FULLY TORQED)
14-HW

10'-0

48'-6

10'-0 3/16

5'-0

13@4'-4 = 4'-4

3'-9 1/16 | 5@3'-9 = 18'-9 | 4'-6 1/16 | 4@4'-6 = 18'-0 | 5@3'-9 = 18'-9 | 2'-3 1/8

2'-5 3/4 | 22'-6 1/16 | 22'-6 1/16 | 21'-0 1/8 | -1/16 +0

11'-0 | 47'-6 | 10'-0

68'-6 END TO END @ BOTT. FLG. -1/8 -1/8

COMP. SEE GN1

MT

AT

RA

P

m

2-P

aa

ah

K

SEC. "A-A"

SEC. "B-B"

(TYP. FOR INTERMEDIATE STIFF.)

CAMBER DIAGRAM

90°

45°

BOTT. OF WEB PL.

34'-3 | 34'-3

68'-6

3/16

For location of details shown on this sheet refer to diagram.

E402

F LINE
SPAN E11

INST.	S2	NO.	DESCRIPTION	MARK	REMARKS
		1	1	GIRDER	423A	5'-6x1'-0x68'-6

REQUIRED LIST

NOTE:

CLIP ALL STIFF. AS SHOWN 3/4" BY 3/4"

FOR OTHER NOTES SEE GN1

MATERIAL - ASTM-A36

RIVETS OR BOLTS - 7/8"ø-325

OPEN HOLES - 15/16"ø

A325 FIELD BOLTS

SHOP CONTACT SURFACES - N.P.

WELDING - AS NOTED

PAINT - 1 COAT TT-P-615d TYPE II U.N. - SEE NOTE "X"

NOTE X

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT, FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES.

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
LEETSDALE WORKS

CHICAGO DRAFTING ROOM
MADE BY GCY DATE IN CHARGE FJK
CHECKED BY [illegible] DATE 2-5-71 SHOP NO. 1

CONTRACT CE 6472-000 DRAWING NO. 423

REVISION: NO | DATE | INIT

SUBMITTAL DATE

M-48-28(2)

GIRDER 424A

1-PL-12x1x1'-0½-a a(FILL) <T

1-PL-12x1x10'-0-b

1-PL-12x1'2x36'9-c

No PAINT TOP OF TOP FLG.

1-PL-12x1x10'-0-f

1-PL-12x5/8x45'-8 15/16-g

1-PL-12x1x10'-0-aa(FILL) <T

1-PL-12x1'4x10'-0-aa(FILL)

1-PL-12x5/8x10'-0-af

1-PL-12x1'4x10'-0 8/16-d

1-PL-12x1'4x10=11'-11 15/16-h

1-PL-12x1'8x2'-1½-n
14-325 7/8"Øx6¼ (FULLY TORQED)
14-HW

2-PL-13x3/8x4'-7½-m
28-325 7/8"Øx2½ (FINGER TIGHT)
28-HW

1-BR-5x3/8x4'-11-a h

1-WEB PL 61/4x3/8x66'-1 9/16-a

1-BR-5x3/8x4'-11-FS-K

1-BR-5x3/8x4'-11-NS-ad

K-FS
ad-NS

5'-0

13@4=4'-4

1'-10 7/8

5@3'-6=17'-6

4'-6 1/16

4@4'-6=18'-0

3'-9 1/16

5@3'-9=18'-9

2'-4

19'-4 7/8

22'-6 1/16

22'-6 1/16

10'-0

45'-9

11'-0

66'-9 END TO END @ BOTT. FLG.

Comp. SEE GN1

RT

MT

S1

S2

RA

P

M

aa

ab

ah

ad

K

Typ.

Typ. For Intermediate Stiff.

Clip All Stiff. As Shown 3/4"Bx3/4"

For Gen Notes See GN1

Sec. "A-A"

Sec. "B-B"

Tight Fit

Camber Diagram

33'-4½ 33'-4½ 66'-9

90°

Bott. of Web Pl.

1'-4½ 1'-4 1'-4½ 1'-9 1'-4½ 1'-4

1'-0 11/16

11/16

Note X

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT, FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES.

Note:

MATERIAL - ASTM-A36

RIVETS OR BOLTS - 7/8"Ø - A325

OPEN HOLES - 15/16"Ø

A325 FIELD BOLTS

SHOP CONTACT SURFACES - N.P.,
WELDING - AS NOTED

PAINT - 1 COAT TT-P-615d, TYPE II
U.N. - SEE NOTE X"

E LINE
SPAN E11

INST.	S2	NO.	DESCRIPTION	MARK	REMARKS
		1	1 GIRDER	424A	x1'0x

REQUIRED LIST

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
LEETSDALE WORKS

MADE BY GCY DATE IN CHARGE FJK
CHECKED BY Hab DATE 2-8-71 SHOP NO.

CONTRACT CE G472-000 DRAWING NO. 424

REVISION: 4-5-71 Hab

SUBMITTAL / DATE

For location of details shown on this sheet refer to diagrams.

E402

MICROFILMED

36663 11-67

11-48-2

NO PAINT TOP OF TOP FLANGE

1-aa. (FILL) ⊄

1-PL-12x1x10'-0-f

1-PL 12x1x1'-0 1/2 aa. (FILL) ⊄

1-PL-12x1x10'-0-b

1-PL-12x1 5/8x42'-2 15/16-c

1-PL-12x1 5/8x10'-0-h

1-PL-12x1 1/4x10'-0 1/16-5.3

1-PL-12x1 1/4x10'-11 15/16-d

1-PL-12x1 1/4x10'-0 1/16 sec (FILL)

1-aa (FILL) ⊄

1-PL-12x1'2x33'-3-g

Comp. SEE GN1

Comp. SEE GN1

Comp. SEE GN1

1-PL-12x1 1/8x2'-1 1/2-m
14-.325 7/8"ø x6 1/4 (FULLY TORQED)
14-HW

2-PL-13x3/4x4'-7 1/2-m
28-.325 7/8"ø x 2 1/2 (FINGER TIGHT)
28-HW

2-P

2-S

1-m

1-BR 5x3/8x4'-11-ah

1-BR 5x3/8x4'-11-HNS
1-BR 5x3/8x4'-11-ad-FS

1-ab

HN-NS
ad-FS

ah

5'-0

13@4=4'-4

RA

aa

Typ

P

1-aa. (FILL) ⊄ 6 1/16x3/8x63'-3 1/16-a

5/16

3/4 60° G

3/8 60° G

RT

MT

2 1/2

1

B

A

1'-2 13/16 | 3'-6 | 3'-6 | 11'-3 | 4@4'-6=18'-0 | 4'-6 1/16 | 11'-3 | 5@3'-9=18'-9 | 3'-9 1/16 | 2'-10 | 2'-10 | 2'-10 | 1'-6 1/16

8'-2 13/16 | 22'-6 1/16 | 22'-6 1/16 | 10'-0 1/16

10'-0 | 42'-3 | 11'-0

63'-3 END TO END @ BOTT. FLG.

-1/16 +0

-1/8

RA

aa

1-BR 5 1/4x1'4x2'-1 1/2-p

1-PL-12x1 1/8x2'-1 1/2-n
14-.325 7/8"ø x6 1/4 (FULLY TORQED)
14-HW

1-PL 12'2x3/8x2'-0 1/4-ab

GIRDER 426A

WP

12 | 11/4

Typ 1/4

3 | 3 | 6 1/2 | 1'-0 1/8 | 1'-0 1/8 | 6 1/2 | 3 | 3

SEC. "A-A"

SEC. "B-B"

Typ. Intermediate Stiff)

5'-0

4'-11

Typ.-U.N.

ah

K

ad

2'-9 1/2

2'-1 1/4

5 3/32

3 11/16 | 3 1/16 | 3 2/32 | 3 2/32 | 3 3/32 | 3 3/32 | 5 3/32

TIGHT FIT

CAMBER DIAGRAM

90°

1/16

Bott. of Web PL.

31'-7 1/2 | 31'-7 1/2

63'-3

-1/8 | -1/8

ELECTRODES - E70XX LOW HYDROGEN

NOTE "X"

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT, FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES.

NOTE

CLIP ALL STIFF. AS SHOWN 3/4 by 3/4

FOR GEN NOTES SEE GN1

MATERIAL - ASTM-A36

~~RIVETS OR~~ BOLTS 7/8"ø - A325

OPEN HOLES 15/16

A325 FIELD BOLTS -

SHOP CONTACT SURFACES - N.P.

WELDING - AS NOTED

PAINT - 1 COAT TT-P 615d TYPE II U.N - SEE NOTE "X"

LINE C
SPAN E11

	1	1	GIRDER	426A	5'-6x1'-0x64'-6
INST.	S2	NO.	DESCRIPTION	MARK	REMARKS
			REQUIRED LIST		

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEESDALE WORKS
MADE BY GCY DATE IN CHARGE FJK
CHECKED BY Hab DATE 2-17-71 SHOP NO.
CONTRACT CE 6472-000 DRAWING NO. 426

REVISION: 1 4-5-71 Hab (NO | DATE | INIT.)

SUBMITTAL / DATE: 1 2 3 4 5 6 7 8 9 0

For location of details shown on this sheet refer to diagrams: E402

24663 11-69

11-48-31 (12)

GIRDER 427A

NO PAINT TOP OF TOP FLANGE

1-aa (FILL)

1-PL-12x1x10'-0-b

1-PL-12x1'2x31'-3-c

1-PL-12x5/8x10'-0-d

1-PL-12x1'4x10'-0 3/8-f

1-PL-12x1'4x10'-0-e

1-PL-12x1'4x9'-11 15/16-s

1-PL 12x1x1'-0 2aa (FILL)

1-PL-12x1x10'-0-g

1-PL-12x1 5/8x41'-2 15/16-h

1-BR 5x3/8x4'-11-a h

1-BR 5x3/8x4'-11-W-F5

1-BR 5x3/8x4'-11-K-NS

1-BR 5x3/8x4'-11-Y-F5

1-BR 5x3/8x6'-6 5/16-a

1-aa

1-ab

1-ad

2-P

1-PL-13x3/4x9'-7 1/2-m

28-325 7/8"ø x 2 1/2 (FINGER TIGHT)

28-HW

1-PL-12x1'4x1'-4 2aa (FILL)

1-PL-12x1 1/8x2'-1 1/2-n

14-325 7/8"ø x 64 (FULLY TORQED)

14-HW

1-BR 5/4x1/4 x 2'-1 1/2-p

1-PL-12x1 1/8x2'-1 1/2-n

14-325 7/8"ø x 64 (FULLY TORQED)

14-HW

1-PL 17x3/8x2'-8 1/2-ab

1-PL 17x3/8x2'-9 1/2-ad

Comp. SEE GN1

5'-0

13@4=4'-4

10@5 3/8=4'-5 3/4

2'-9 1/16

2'-7 9/16

2'-7 4

4'-11

TYP. UN

TIGHT FIT

SEC. "A-A"

SEC. "B-B"

SEC. C-C

SEC. D-D

SIMILAR

IN SEC. C-C & D-D

SEC. B-B

SEC. C-C

SEC. D-D

IN SEC. B-B

E-SEC. B-B

W-SEC. C-C

V-SEC. D-D

4@4'-6=18'-0

4'-6 1/16

5@3'-9=18'-9

3'-9 1/16

5 1

4@3'-1 3/4=12'-7

1'-3 1/16

2'-4 13/16

22'-6 1/16

41'-3

61'-3

10'-0

13'-10 1/16

+0 -1/16

-1/8

CAMBER DIAGRAM

30'-7 1/2

BOTT. OF WEB PL.

90°

5/16

LINE B

SPAN E11

INST.	S2	1	1	GIRDER	427A	
		NO.		DESCRIPTION	MARK	REMARKS
		REQUIRED LIST				

NOTE

CLIP ALL STIFF. AS SHOWN 3/4 by 3/4

FOR GEN NOTES SEE GN1

MATERIAL - ASTM-A36

RIVETS OR BOLTS 7/8"ø - A325

OPEN HOLES 15/16"ø

A325 FIELD BOLTS -

SHOP CONTACT SURFACES - N.P.

WELDING - AS NOTED

PAINT - 1 COAT TT-P 615d TYPE II U.N. SEE NOTE "X" S

ELECTRODES - E70XX LOW HYDROGEN

NOTE "X"

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT, FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES.

For location of details shown on this sheet refer to diagrams.

E402

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS / ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE

PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS

MADE BY GCY DATE IN CHARGE FJK

CHECKED BY [illegible] DATE 2-18-71 SHOP NO.

CONTRACT CE G472-000 DRAWING NO. 427

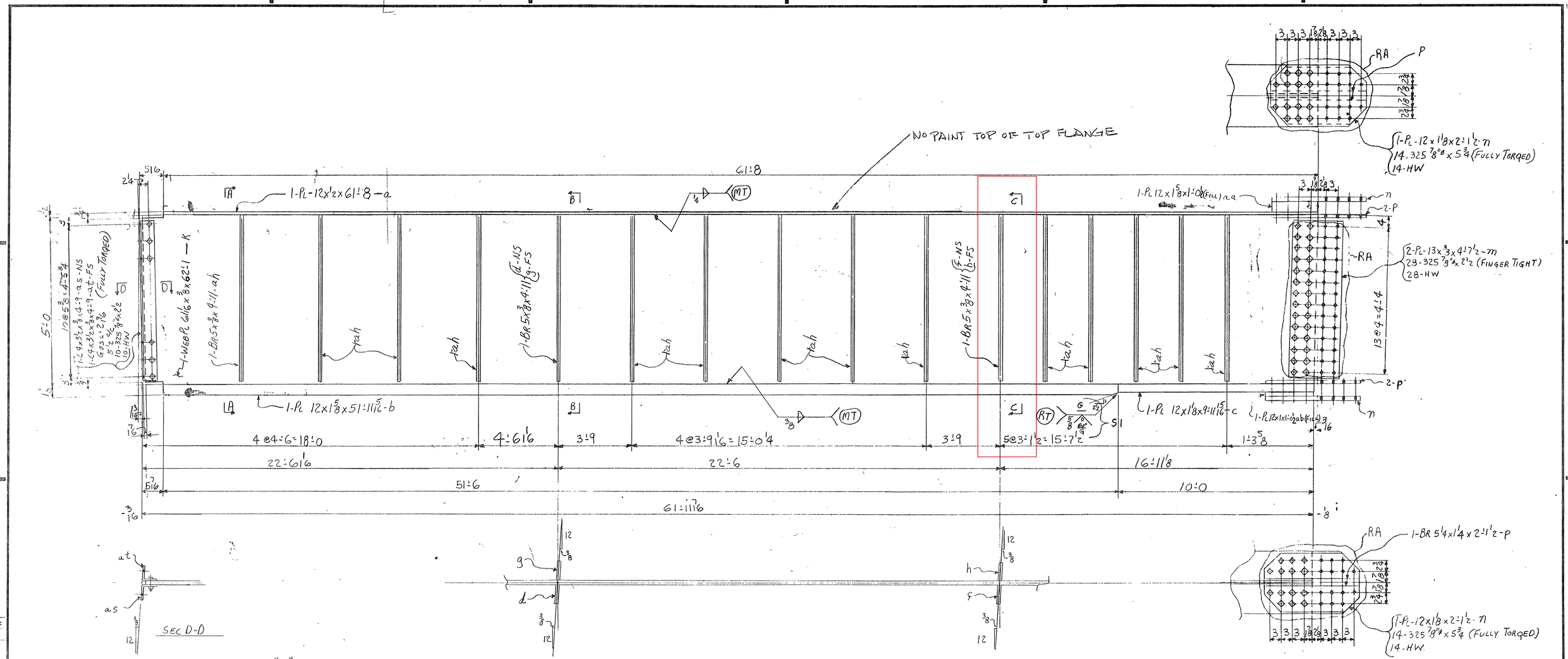
REVISION NO 1 DATE 4-5-71 INIT. Wb

SUBMITTAL DATE

36663 11-68

MICROFILMED

11-18-82 (12)



LINE A'
SPAN E11

INST.	S2	NO.	DESCRIPTION	MARK	REMARKS
	1	1	GIRDER	428A	

REQUIRED LIST

NOTE

CLIP ALL STIFF. AS SHOWN 3/4 by 3/4

FOR GEN NOTES SEE GN1

MATERIAL - ASTM-A36
~~RIVETS OR~~ BOLTS 7/8"ø-A325
OPEN HOLES 15/16"ø
A325 FIELD BOLTS -
SHOP CONTACT SURFACES - N.P.
WELDING - AS NOTED
PAINT - 1 COAT TT-P 615d TYPE II UN- SEE NOTE "X" S

ELECTRODES - E70XX
LOW HYDROGEN

NOTE "X"

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT, FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES.

NO	DATE	INIT.
1	4-5-71	Hab

REVISION

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY GCY DATE IN CHARGE FJK
CHECKED BY Hab DATE 2-19-71 SHOP NO.
CONTRACT CE 6472-000 DRAWING NO. 428

For location of details shown on this sheet refer to diagrams
E402

MICROFILMED

M-48-33

NO PAINT TOP OF TOP FLANGE

10'-0 | 42'-0¼ | 10'-0 3/16

1-Pl 12x1x1'-0½ ac (FILL) <T

1-Pl-12x1⅛x10'-0-b

1-Pl-12x1⅛x10'-0 3/16-d

1-Pl-12x9/16x42'-0¼-c

comp. SEE GN1

5/16 60°

5/16

(MT)

(RT)

5'-0

13@4'-4

4 | 4

1-MEA 8.6 0.16 x 5 3/8 x 62'-0 1/6-a

1-BR 5 3/8 x 4'-11-ah

1-BR 5 3/8 x 4'-11-aK

1-BR 5 3/8 x 4'-11-am

1-Pl-12x1⅛x4'-11 ac (FILL)

1-Pl-12x1⅛x9'-11 15/16-f

1-Pl-12x1⅝x42'-0⅛-g

1-ac (FILL) <T

S1

S2

1'-5 13/16 | 4@4'-5 3/4 = 17'-11 | 5@3'-9¼ = 18'-10¼ | 3'-8 5/16 | 5@3'-9 = 18'-9 | 1'-3 7/8

19'-4 13/16 | 22'-6 1/16 | 20'-0 7/8

10'-0 | 42'-0¼ | 10'-0

62'-0¼

-⅛ | -⅛

RA | P

1-Pl-12x1⅛x2'-1½-n
14-.325 7/8"ø x 5 3/4 (FULLY TORQED)
14-HW

2-Pl-13x3 3/4x4'-7½-m
28-.325 7/8"ø x 2½ (FINGER TIGHT)
28-HW

2-P | n

1-Pl-12x1⅛x4'-11 ac (FILL)

1-BR 5¼x1¼x2'-11½-P

1-Pl-12x1⅛x2'-1½-n
14-.325 7/8"ø x 5 3/4 (FULLY TORQED)
14-HW

aK

am

12

SEC. "A-A"

(TYP. INTER. STIFF.)

SEC. "B-B"
SEC. C-C

TYP-UN

ah

aK-SEC. B-B
am-SEC. C-C

2'-9⅝ | 2'-9½ | 4'-11

CAMBER DIAGRAM

90°

BOTT. OF WEB PL.

31'-0⅛ | 31'-0⅛

62'-0¼

3/16

-⅛ | -⅛

For location of details shown on this sheet refer to diagrams

E402

ELECTRODES - E70XX
LOW HYDROGEN

NOTE "X"

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT, FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES.

NOTE

CLIP ALL STIFF. AS SHOWN ¾ by ¾

FOR GEN NOTES SEE GN1

MATERIAL - ASTM-A36
~~RIVETS OR~~ BOLTS 7/8"ø - A325
OPEN HOLES 15/16"ø
A325 FIELD BOLTS -
SHOP CONTACT SURFACES - N.P.
WELDING - AS NOTED
PAINT - 1-COAT T-P 615d TYPE II U.N. - SEE NOTE "X" S

LINE A
SPAN E11

1	1	GIRDER	429A	
S2	NO.	DESCRIPTION	MARK	REMARKS
INST.	REQUIRED LIST			

REVISION

NO	DATE	INIT
1	4-5-71	Hab

SUBMITTAL DATE | 1 2 3 4 5 6 7 8 9 0

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

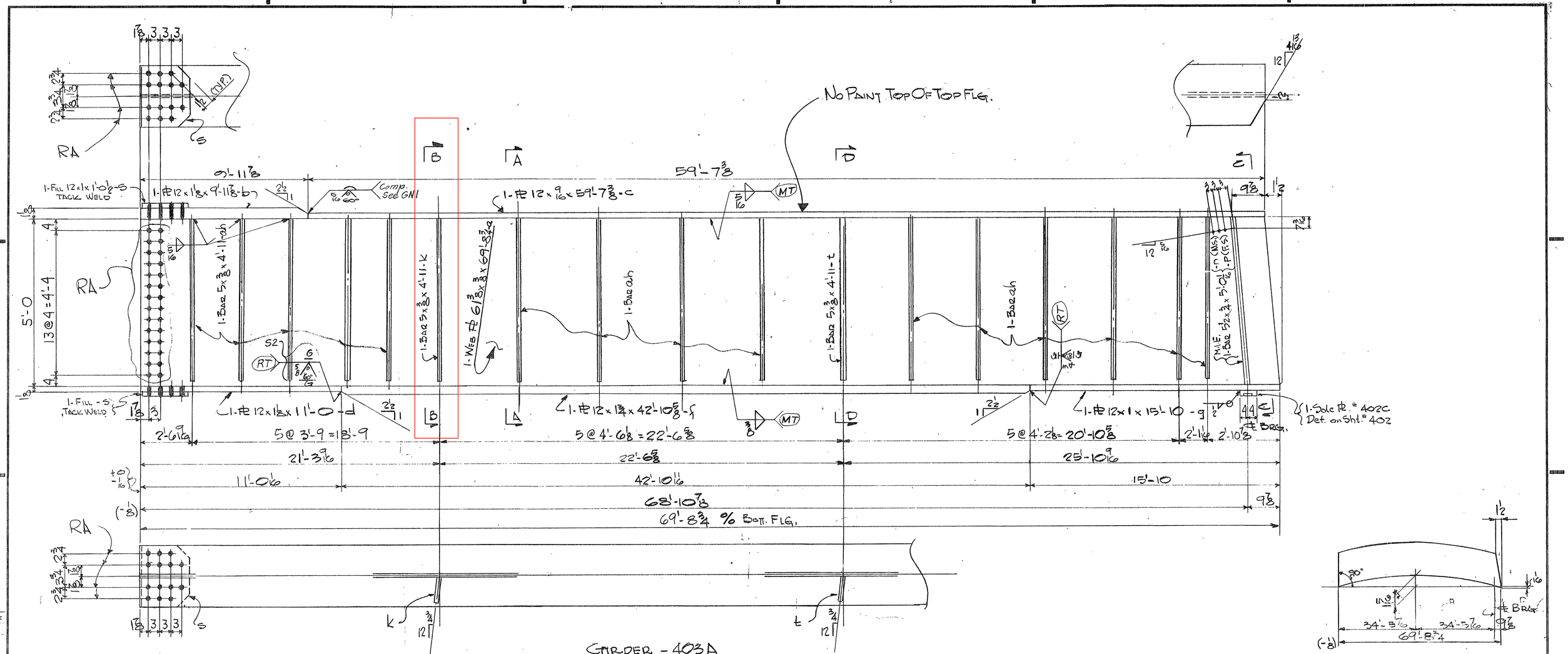
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM EASTSDALE WORKS
MADE BY GCY DATE IN CHARGE FJK
CHECKED BY Hab DATE 2-19-71 SHOP NO.
CONTRACT CE 6472-000 DRAWING NO. 429

36663 11-69

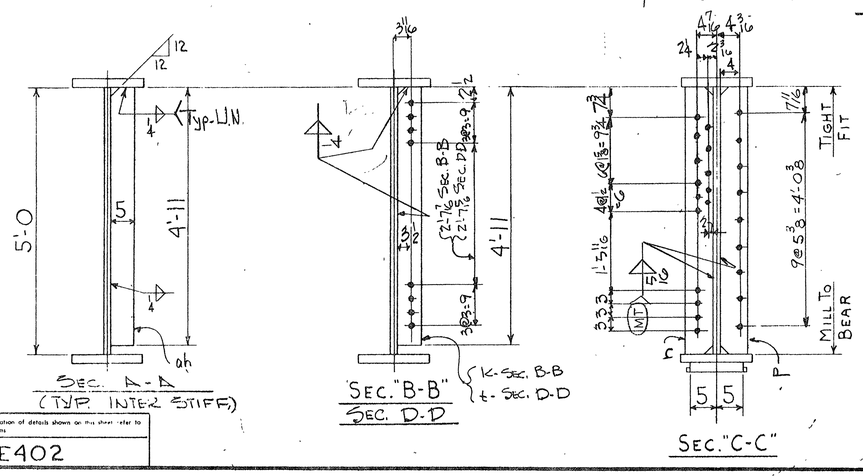
MICROFILMED

M-48-34 (12)



CAMBER DIAGRAM

SPAN E12 - LINE A



	1	1	GIRDER	403A	5'-5"x1/16"x67'-7
	SI	NO.	DESCRIPTION	MARK	REMARKS
INST.			REQUIRED LIST		

NOTE
3/4"x3/4" CLIP ALL STIFF. AS SHOWN

ELECTRODES - E70XX
LOW HYDROGEN

FOR GENERAL NOTES SEE GN1

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

MATERIAL ASTM-A36
~~RIVETS OR BOLTS~~
OPEN HOLES 15/16"ø
~~A325 FIELD BOLTS~~
SHOP/CONTACT SURFACES N.P.
WELDING: AS NOTED
MILLING: AS NOTED
PAINT
1 Coat TT P 615d Type II U.N. See Note "X"

NO	DATE	INIT.	REVISION
2	4-5-71	Hab	
1	3-15	K	

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40 1(11)6 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY E.D. DATE 1-13-71 IN CHARGE FJK
CHECKED BY Hab DATE 2-12-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO. 403

For location of details shown on this sheet refer to diagrams

E402

MICROFILMED

11-48-8 (14)

No Paint Top of Top Flg.

68'-4 13/16

1-PL 12 x 1/2 x 68'-4 13/16 - b

1-FILL 12 x 1 5/8 x 1'-0 - g (TACK WELD)

1-FILL 12 x 1 x 1'-6 1/2 - V (TACK WELD)

1-PL 12 x 1 1/8 x 11'-0 - c

1-PL 12 x 1 3/4 x 42'-10 1/2 - d

1-PL 12 x 1 x 14'-7 5/8 - f

1-Sole PL # 402C Det on Sht. #402

1-Web PL 6 5/8 x 3/8 x 68'-4 - a

1-Bar 5 x 3/8 x 4'-11 - h

1-Bar 5 x 3/8 x 4'-11 1/2 (N.S.) - k (F.S.) - p

1-Bar 5 x 3/8 x 4'-11 - m (N.S.) - s (F.S.)

1-Bar 5 1/2 x 3/4 x 5'-0 1/8 - w (N.S.) - t (F.S.)

1-Bar ah

5'-0

13@4 = 4'-4

RA

3'-9 1/4 | 5@3'-9 = 18'-9 | 4@4'-6 = 18'-0 | 4@4'-2 1/2 = 16'-10 | 2'-0 | 2'-10 15/16 ± Bag.

1'-9 7/16 | 22'-6 1/4 | 22'-6 1/4 | 21'-8 5/16 | 9 3/4

11'-0 1/16 | 42'-10 9/16 | 14'-7 5/8

67'-8 1/2

68'-6 1/4 % Bott. Flg.

GIRDER - 404A

Camber Diagram

90°

1 5/16 | 33'-10 1/4 | 33'-10 1/4 | 9 3/4 ± Brg.

68'-6 1/4

1 - 1 3/8

Pier # E12 - Line A'

Sec. A-A (Typ. Inter. Stiff.)

Sec. "B-B"

Sec. D-D

Sec. F-F

Sec. "C-C"

MILL TO BEAR

TIGHT FIT

For location of details shown on this sheet refer to diagrams

E402

NOTE

3/4" x 3/4" CLIP ALL STIFF. AS SHOWN

ELECTRODES - E70XX LOW HYDROGEN

FOR GENERAL NOTES SEE GN1

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

	1	1	GIRDER	404A	5'-2 x 11'-0 x 68'-5
SI	NO.	DESCRIPTION	MARK	REMARKS
INST.	REQUIRED LIST			

MATERIAL ASTM - A36

RIVETS OR BOLTS

OPEN HOLES 15/16" ϕ

A325 FIELD BOLTS

SHOP CONTACT SURFACES N.P.

PAINT

WELDING } As Noted

MILLING }

(Paint Shop Note "X")

SUBMITTAL 1 2 3 4 5 6 7 8 9 0

DATE

REVISION

NO | DATE | INIT

1 | 4-5-71 | Mab

CUSTOMER

TENNESSEE DEPARTMENT OF HIGHWAYS

ATLANTA [illegible] AUTHORITY COMMISSION

STRUCTURE EAST [illegible] BRIDGE

PROJECT [illegible] - TENN.

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS

MADE BY E.O. DATE 1-15-71 IN CHARGE FJK

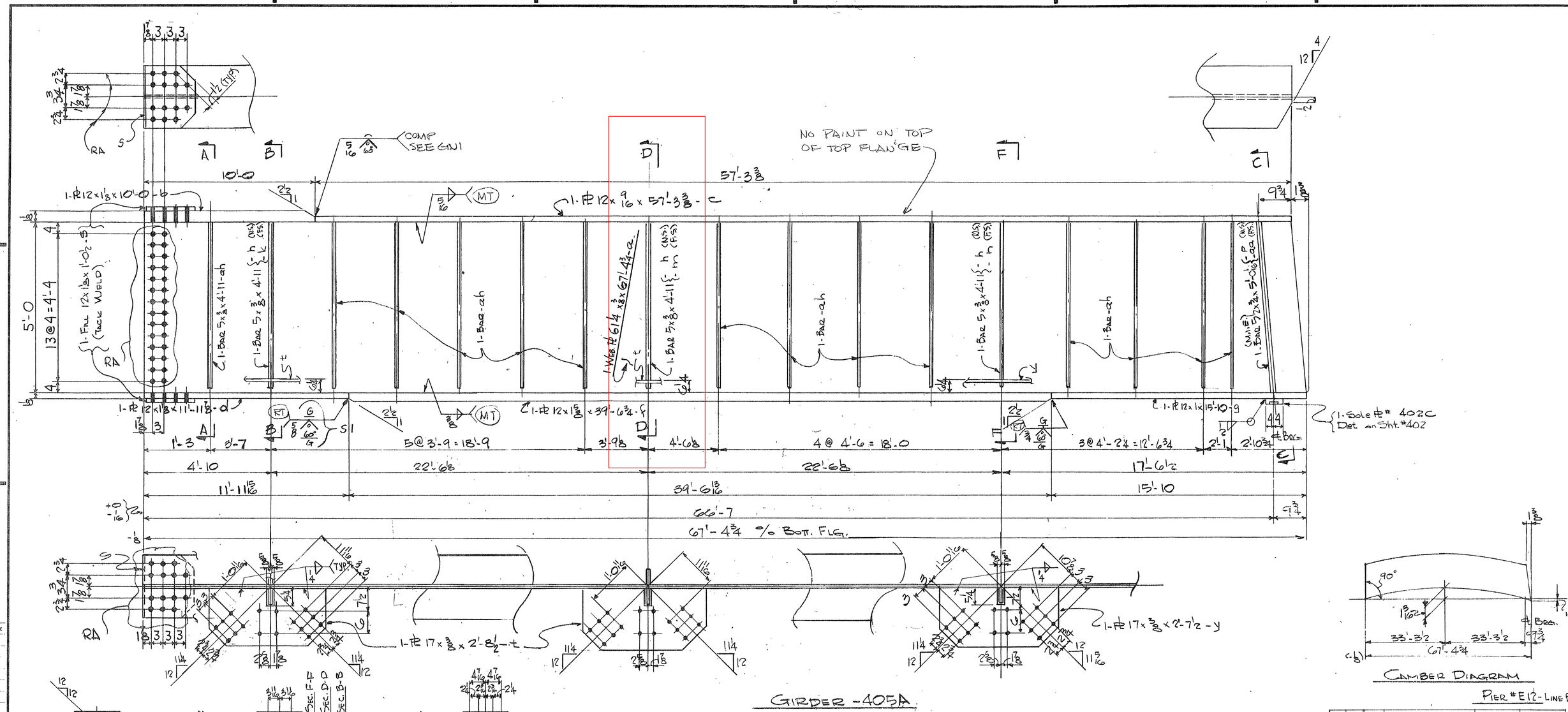
CHECKED BY MKO DATE 2-16-71 SHOP NO

CONTRACT CEG 472-000 DRAWING NO 404

36663 (7-67)

MICROFILMED

11-48-9 (14)



1	1	GIRDER	405A	67'-6
S1	NO.	DESCRIPTION	MARK	REMARKS
INST.	REQUIRED LIST			

NOTE

3/4" x 3/4" CLIP ALL STIFF. AS SHOWN

ELECTRODES - E70XX LOW HYDROGEN

MATERIAL ASTM-A36

RIVETS OR BOLTS

OPEN HOLES 15/16" ϕ

4375 FIELD BOLTS

SHOP CONTACT SURFACES N.P.

WELDING } AS NOTED
MILLING }

PAINT
1 Coat TT-P 615c Type II
U.N. - See Note "X"

FOR GENERAL NOTES SEE GN1

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

NO	DATE	INIT.
1	4-5-71	Hab

REVISION

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40 1(116)6 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY E.DEL DATE 1-18-71 IN CHARGE FJK
CHECKED BY Hab DATE 2-4-71 SHOP NO
CONTRACT CEG 472-000 DRAWING NO 405

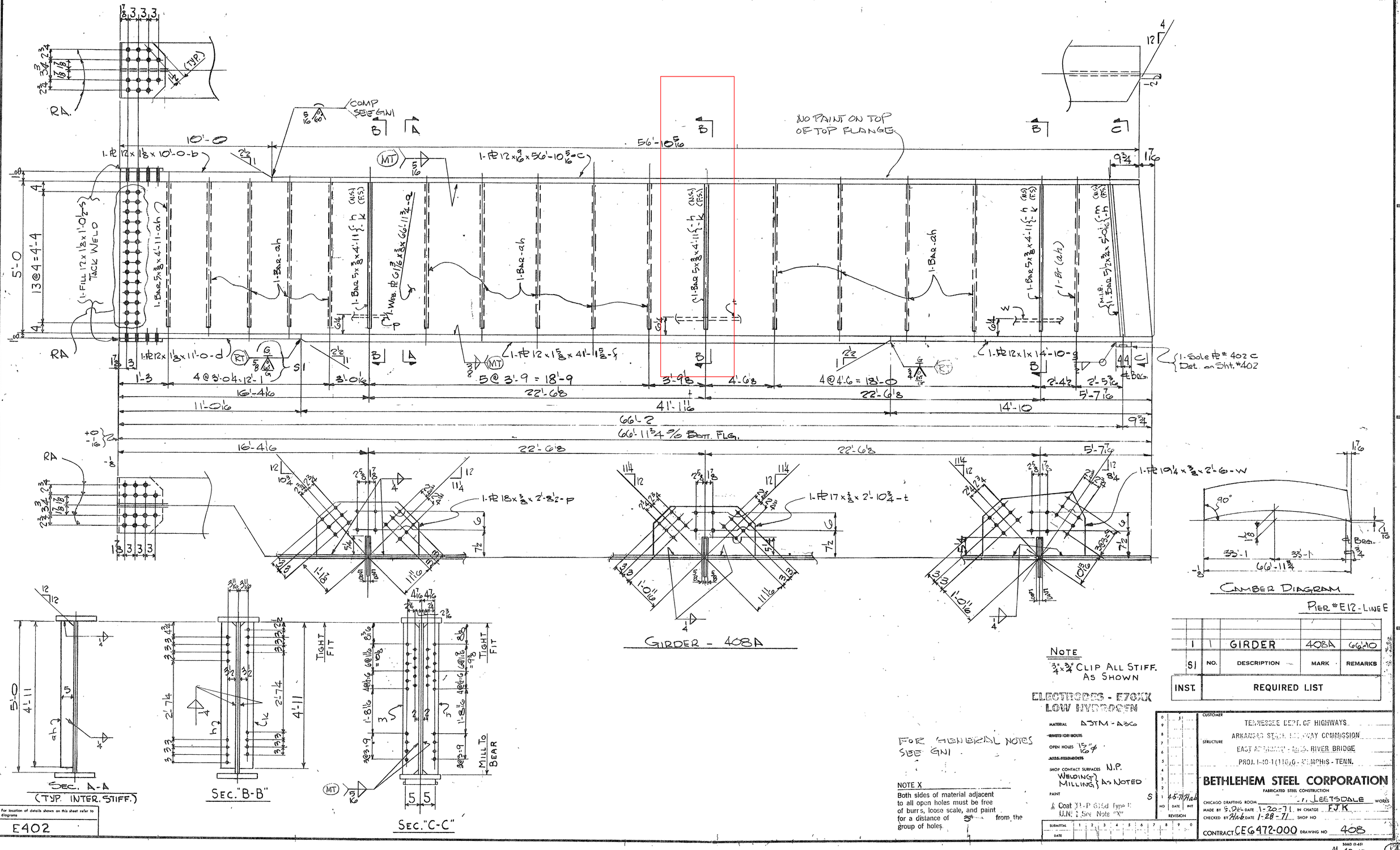
For location of details shown on this sheet refer to diagrams

E402

MICROFILMED

M-48-10

14



PIER # E12 - LINE E

INST.	SI	NO.	DESCRIPTION	MARK	REMARKS
		1	1	GIRDER	408A	66'10
REQUIRED LIST					

NOTE

3/4" x 3/4" CLIP ALL STIFF. AS SHOWN

ELECTRODES - E70XX LOW HYDROGEN

MATERIAL A3TM - A36

~~RIVETS OR BOLTS~~

OPEN HOLES 15/16" ϕ

~~A325 FIELD BOLTS~~

SHOP CONTACT SURFACES N.P.

WELDING } AS NOTED
MILLING }

PAINT S

Coat 3 D.F.T. Std. Type I U.N.O. See Note "X"

FOR GENERAL NOTES SEE GN1.

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

SUBMITTAL DATE	1	2	3	4	5	6	7	8	9	0

NO	DATE	INIT	REVISION
1	4-5-71	Rab	

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST ARKANSAS - MISS. RIVER BRIDGE
PROJ. I-40-1(116)6 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM ... LEESTSDALE WORKS
MADE BY E.D.L. DATE 1-20-71 IN CHARGE F.J.K.
CHECKED BY Rab DATE 1-28-71 SHOP NO.
CONTRACT CEG 472-000 DRAWING NO. 408

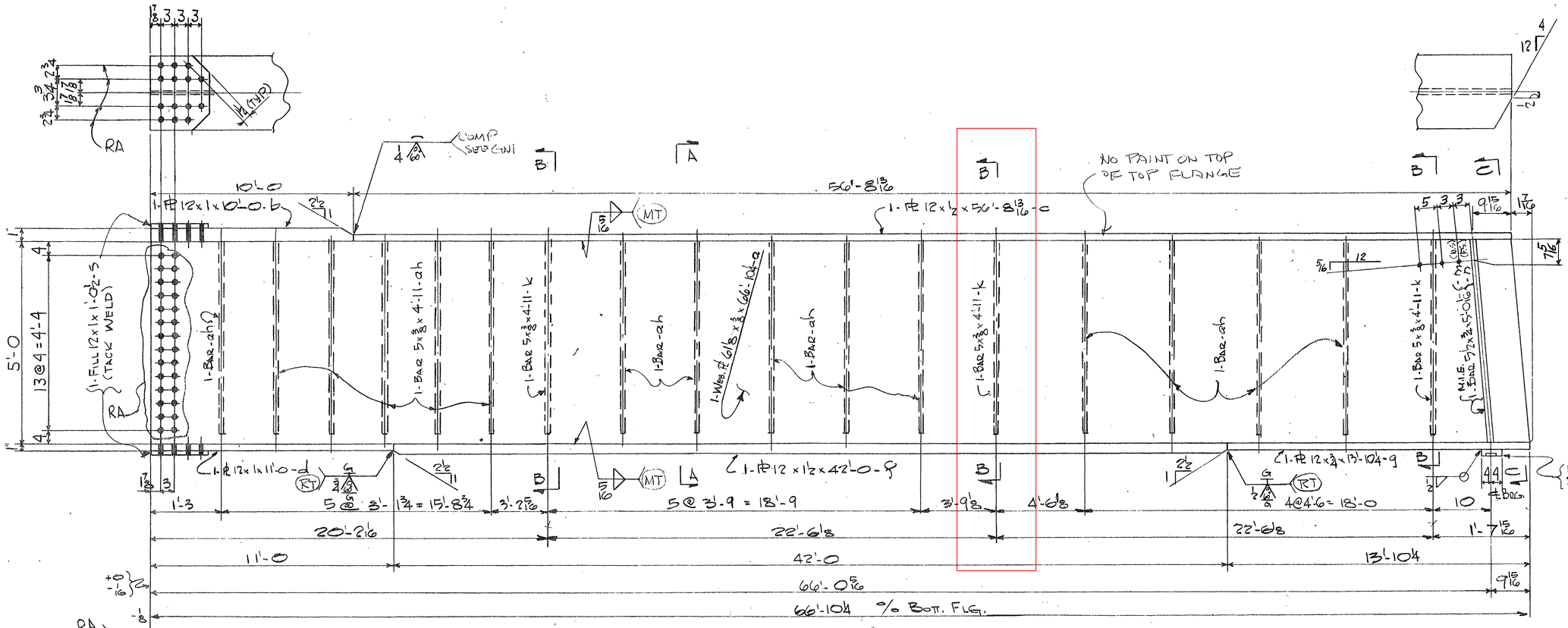
For location of details shown on this sheet refer to diagrams

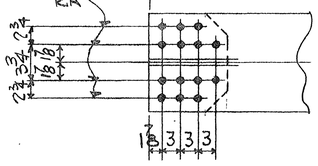
E402

30663 (1-69)

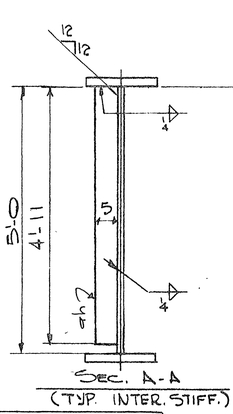
MICROFILMED

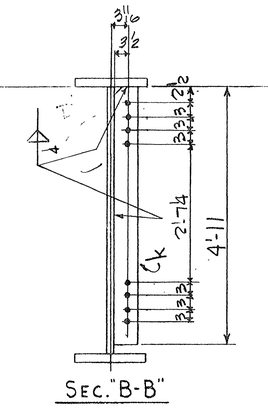
M-48-13

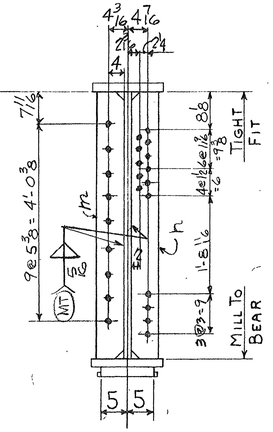


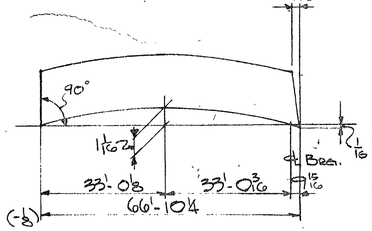


GIRDER - 409A









PIER # E12-LINE F

	1	1	GIRDER	409A	66'-11
	SI	NO.	DESCRIPTION	MARK	REMARKS
INST.		REQUIRED LIST			

NOTE
3/4" x 3/4" CLIP ALL STIFF. AS SHOWN
ELECTRODES - E70XX LOW HYDROGEN

FOR GENERAL NOTES SEE GN1

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

MATERIAL	ASTM-A36
~~RIVET OR BOLTS~~	
OPEN HOLES	15/16 ϕ
~~ADD FIELD BOLTS~~	
SHOP CONTACT SURFACES	N.P.
WELDING / MILLING	AS NOTED
PAINT	1 Coat TI-O 61Red Type II D.F. See Note "X"

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO	DATE	INIT	REVISION
2			
1	3/15	K	

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - [illegible] RIVER BRIDGE
PROJ. I-40 [illegible] - MEMPHIS - TENN.

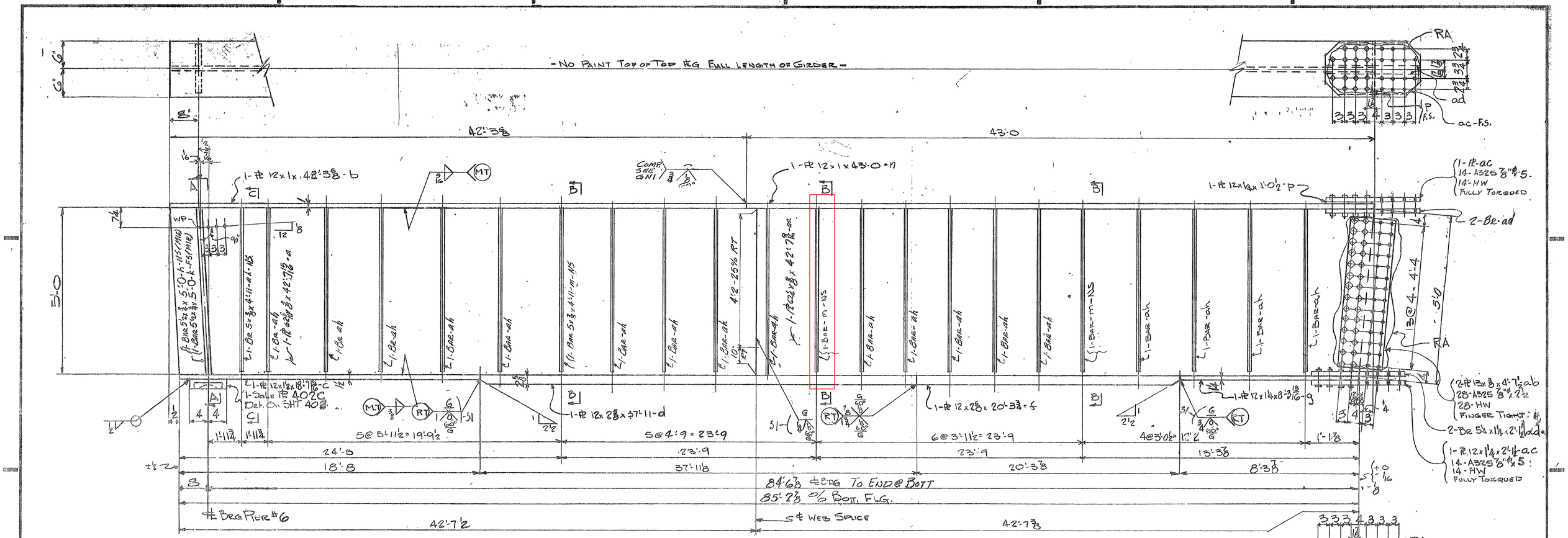
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY BJDEL DATE 1-19-71 IN CHARGE FJK
CHECKED BY [illegible] DATE 1-29-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO. 409

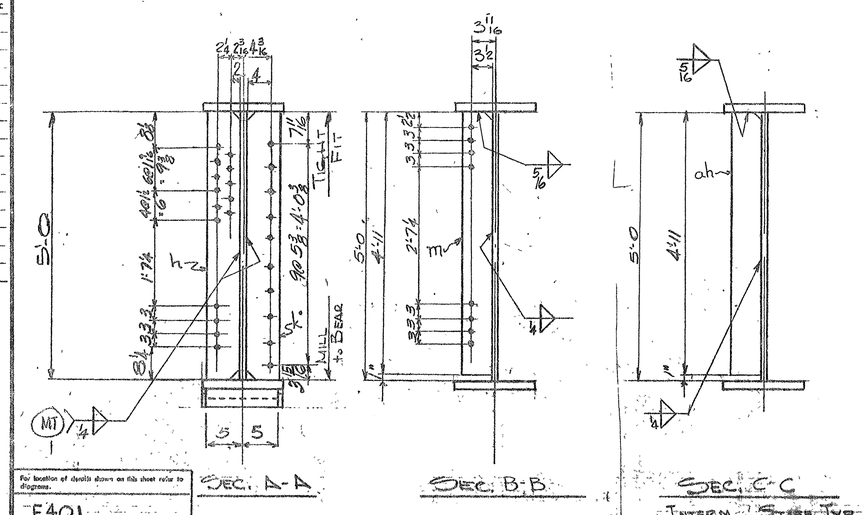
For location of details shown on this sheet refer to diagrams.
E402

36665 (E-63)

11-48-14

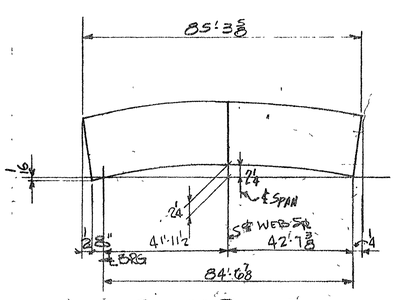
14





For location of details shown on this sheet refer to diagrams.

E401



CAMBER DIAGRAM

FOR GEN. NOTES SEE SHT GN1

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

ELECTRODES - E70XX LOW HYDROGEN

NOTE: 3/4"x3/4" CLIP ALL STIFF AS SHOWN.

MATERIAL A.S.T.M. A-36

BOLTS A325 7/8"φ

OPEN HOLES 15/16"φ SEE GEN. NOTES

A325 FIELD BOLTS

SHOP CONTACT SURFACES N.P.

WELDING - AS NOTED

MILLING - AS NOTED

PAINT 1 Coat TT-P 615d Type II U.N. - See Note "X"

SPAN E7 LINE A

INST.	NO.	DESCRIPTION	MARK	REMARKS
	1	GIRDER	460A	86'-6
	55			

REQUIRED LIST

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS

STRUCTURE: ARKANSAS STATE HIGHWAY COMMISSION
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS

MADE BY J.K.M. DATE 2-16-71 IN CHARGE F.J.K.

CHECKED BY [illegible] DATE 3-8-71 SHOP NO.

CONTRACT CEG472-000 DRAWING NO. 460

SUBMITTAL DATE

M-48-87

-No Paint Top of Top Flg. Full Length of Girder-

7'-1 5/2"

10'-0 3/8"

5'-0

4@ 4'-4

5@ 4'-9 = 23'-9

6@ 3'-11 1/2" = 23'-9

24'-5

16'-8

54'-9

80'-8 3/8" ℄ Brg. To End @ Bott.

81'-4 3/8" o/o Bott. Flg.

℄ Brg Pier #6

40'-7 3/8"

Girder 461A

40'-9

℄ Shop Web Spl.

Comp. See GN1

Sec. A-A

Sec. B-B

Sec. C-C
Intermediate Stiff. Typ

Camber Diagram

81'-5 5/8"

80'-8 7/8"

40'-9

℄ Span

For location of details shown on this sheet refer to diagrams

E 401

For Gen Notes See GN1

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

ELECTRODES - E70XX LOW HYDROGEN

Note: 3"x3"x3/8" Clip All Stiff As Shown.

MATERIAL A.S.T.M. A-36

BOLTS A325-3/4"ø

OPEN HOLES 1 5/16"ø See Gen Notes

A325 FIELD BOLTS —

SHOP CONTACT SURFACES N.P.

WELDING: As Noted

MILLING: As Noted

PAINT 1 Coat IT-P 615d Type II

U.N.: See Note "X"

Span E7 Line B

INST.	NO.	DESCRIPTION	MARK	REMARKS
	1	1 GIRDER	461A	
53		REQUIRED LIST		

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY JKM DATE 3-16-71 IN CHARGE F.J.K.
CHECKED BY [illegible] DATE 3-8-71 SHOP NO.

CONTRACT CEG472-000 DRAWING NO. 461

REVISION: NO. 5 | DATE | INIT

SUBSEQUENT DATE: 1 2 3 4 5 6 7 8 9 0

MICROFILMED

11-18-88

— No Paint Top of Top Flg. Full Length of Girder —

GIRDER - 464A

Sec. A-A

Sec. B-B
Intermediate Stiff Typ

Sec. C-C

Camber Diagram

For location of details shown on this sheet refer to diagrams
E401

For General Notes See GN1

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

ELECTRODES - E70XX LOW HYDROGEN

Note: 3/4 x 3/4" Clip All Stiff As Shown.

MATERIAL A.S.T.M. A-36
BOLTS A325 3/4"ø
OPEN HOLES 15/16 See Gen. Notes
A325 FIELD BOLTS —
SHOP CONTACT SURFACES N.P
WELDING: As Noted
MILLING: As Noted
PAINT
1 Coat F1-P blbd Type II U.N. See Note "X"

Span E7 Line E

	1	1	GIRDER	464A	
	55	NO	DESCRIPTION	MARK	REMARKS
INST.			REQUIRED LIST		

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

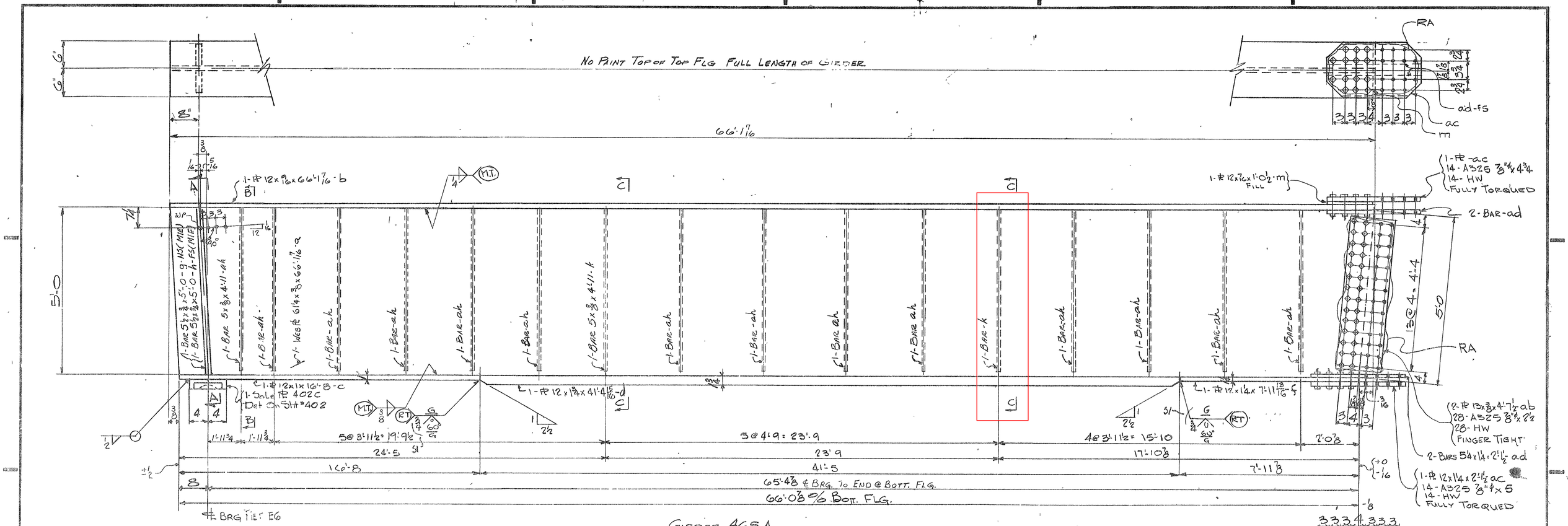
S1 4-5 PJ
NO | DATE | INIT
REVISION

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

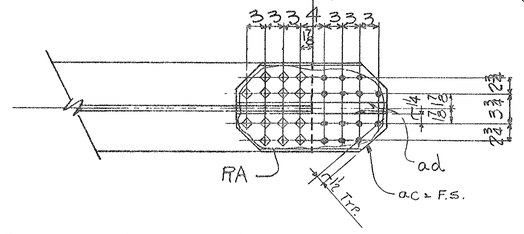
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY J.V.M. DATE 2-23-71 IN CHARGE F.J.K.
CHECKED BY DATE 3-8-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO 464

36683 (1-69)
11-48-91

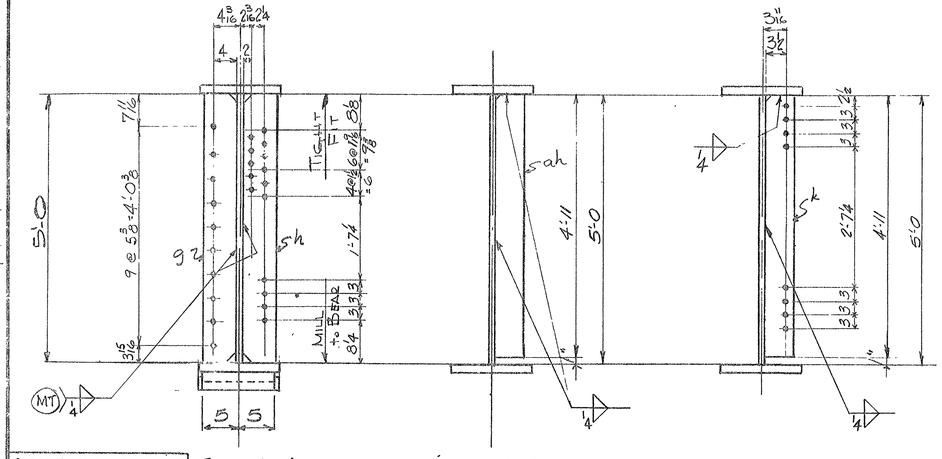
MICROFILMED



Girder 465A



For General Notes See GN1

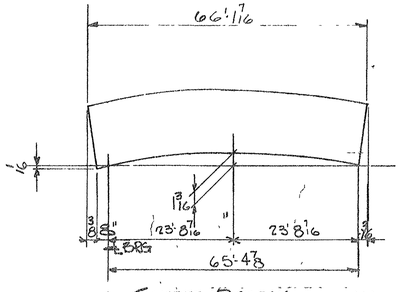


Sec. A-A

Sec. B-B

Intermediate Stiff. (Typ)

Sec. C-C



Camber Diagram

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

ELECTRODES - E70XX LOW HYDROGEN

Note: 3/4"x3/4" Clip All Stiff As Shown.

MATERIAL ASTM A-36

RIVETS OR BOLTS A325-7/8"φ

OPEN HOLES 15/16"φ - See Gen. Notes

A325 FIELD BOLTS —

SHOP CONTACT SURFACES N.P.

Welding: As Noted

Milling: As Noted

PAINT 1 Coat TT-P 615d Type II U.N. - See Note "X"

INST.	REQUIRED LIST			
			SPAN E7	LINE F
1	1	GIRDER	465A	
S5	NO.	DESCRIPTION	MARK	REMARKS

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS

STRUCTURE: ARKANSAS STATE HIGHWAY COMMISSION
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
LEETSDALE WORKS

CHICAGO DRAFTING ROOM
MADE BY J.K.M. DATE 2-17-71 IN CHARGE F.J.K.
CHECKED BY [illegible] DATE 3-8-71 SHOP NO.

CONTRACT CEG472-000 DRAWING NO. 465

NO	DATE	PJ
S1	4 5	PJ

REVISION

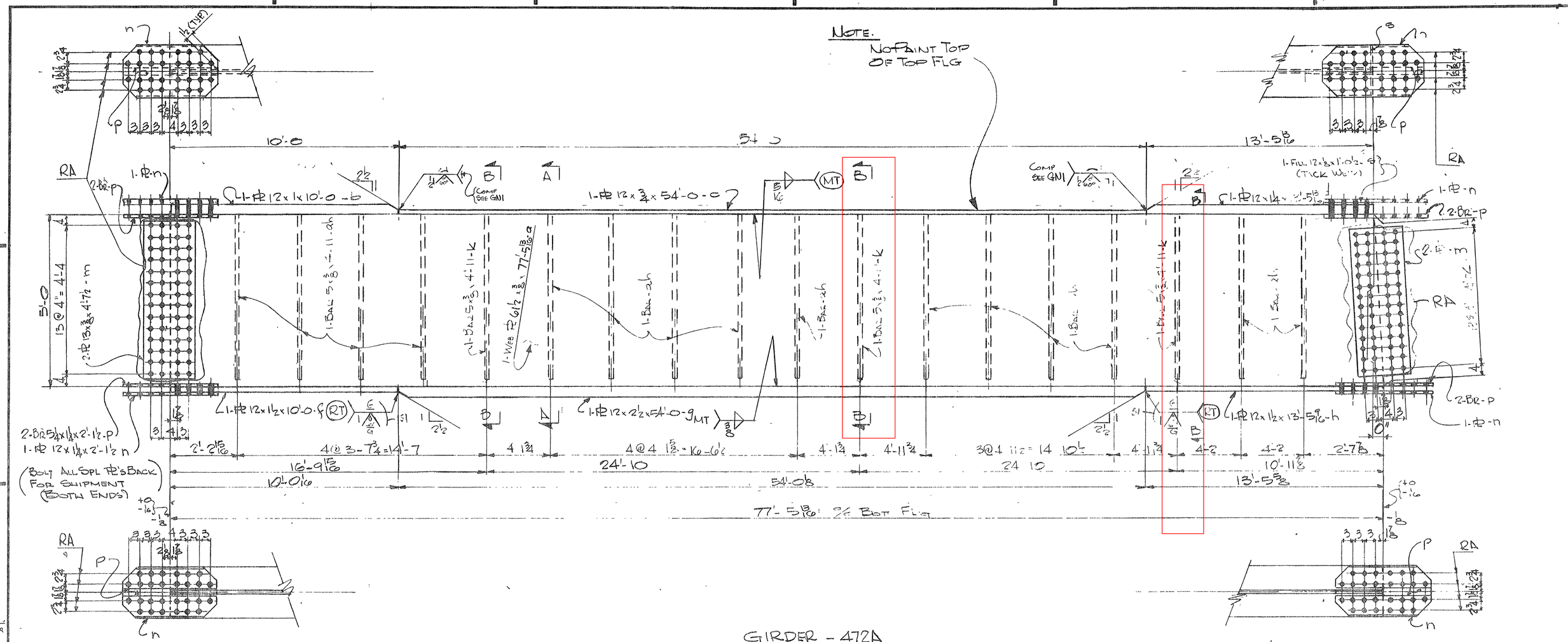
SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

For location of details shown on this sheet refer to diagrams

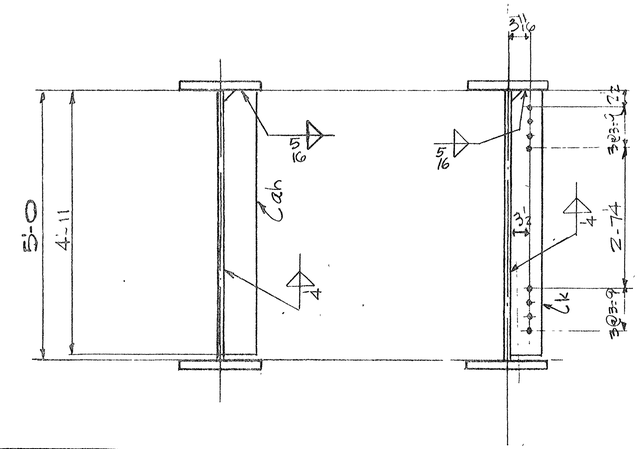
E401

M-48-92

MICROFILMED

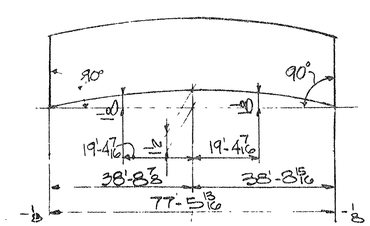


GIRDER - 472A



SEC. A-A (TYP INTER. STIFF.)

SEC. B-B



CAMBER DIAGRAM

ELECTRODES - E70XX
LOW HYDROGEN

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes

GEN NOTES: SEE SHT. GN1

NOTE
3/4 x 3/4 CLIP ALL STIFF AS SHOWN.

MATERIAL ASTM - A36
~~RIGID OR BOLTS~~
OPEN HOLES 15/16 ϕ
~~ADDITIONALS~~
SHOP CONTACT SURFACES NP
WELDING } AS NOTED
MILLING }
PAINT
1 Coat TT-P 615d Type I.
U.N. : See Note "X"

SPAN 8 - LINE F

INST.	NO	DESCRIPTION	MARK	REMARKS
1	1	GIRDER	472A	79-6

REQUIRED LIST

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

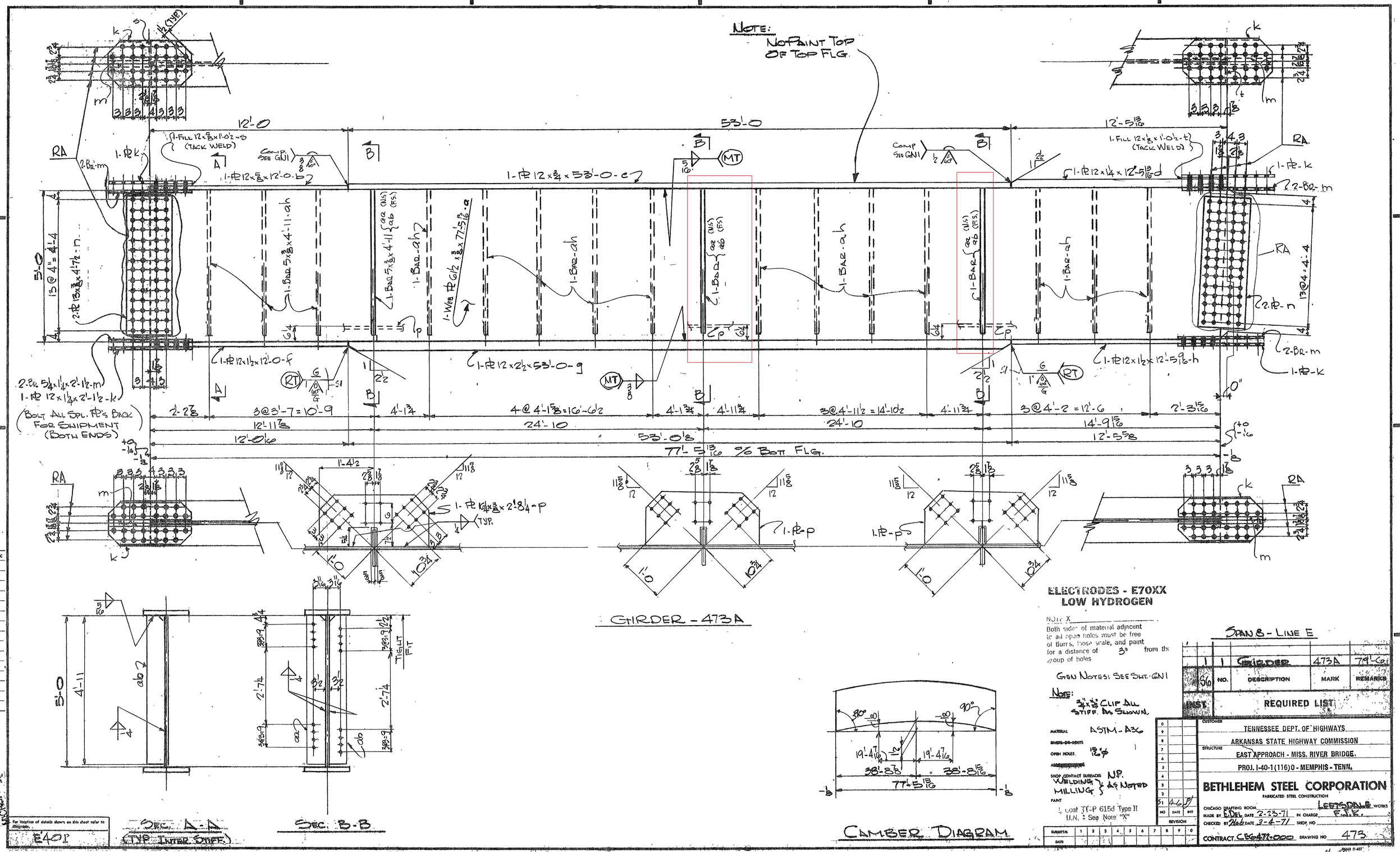
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY E. DEL DATE 2-22-71 — IN CHARGE F.J.K.
CHECKED BY Rub DATE 3-4-71 — SHOP NO
CONTRACT CE6472-000 — DRAWING NO 472

REVISION: 51 4-6 8'

For location of details shown on this sheet refer to diagrams
E408

MICROFILMED



ELECTRODES - E70XX
LOW HYDROGEN

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes

GEN NOTES: SEE SHT. GN1

NOTE:
¾"x¾" CLIP ALL STIFF. AS SHOWN.

MATERIAL ASTM-A36
RIVETS OR BOLTS
OPEN HOLES 15/16"ø
SHOP CONTACT SURFACES N.P.
WELDING } AS NOTED
MILLING }
PAINT
1 Coat TT-P 615d Type II
U.N. : See Note "X"

SPAN 8 - LINE E

INST	NO.	DESCRIPTION	MARK	REMARKS
1	1	GIRDER	473A	79'-6

REQUIRED LIST

CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE.
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY E.DEL DATE 2-23-71 IN CHARGE F.J.K.
CHECKED BY Hab DATE 3-4-71 SHOP NO
CONTRACT CEG472-000 DRAWING NO 473

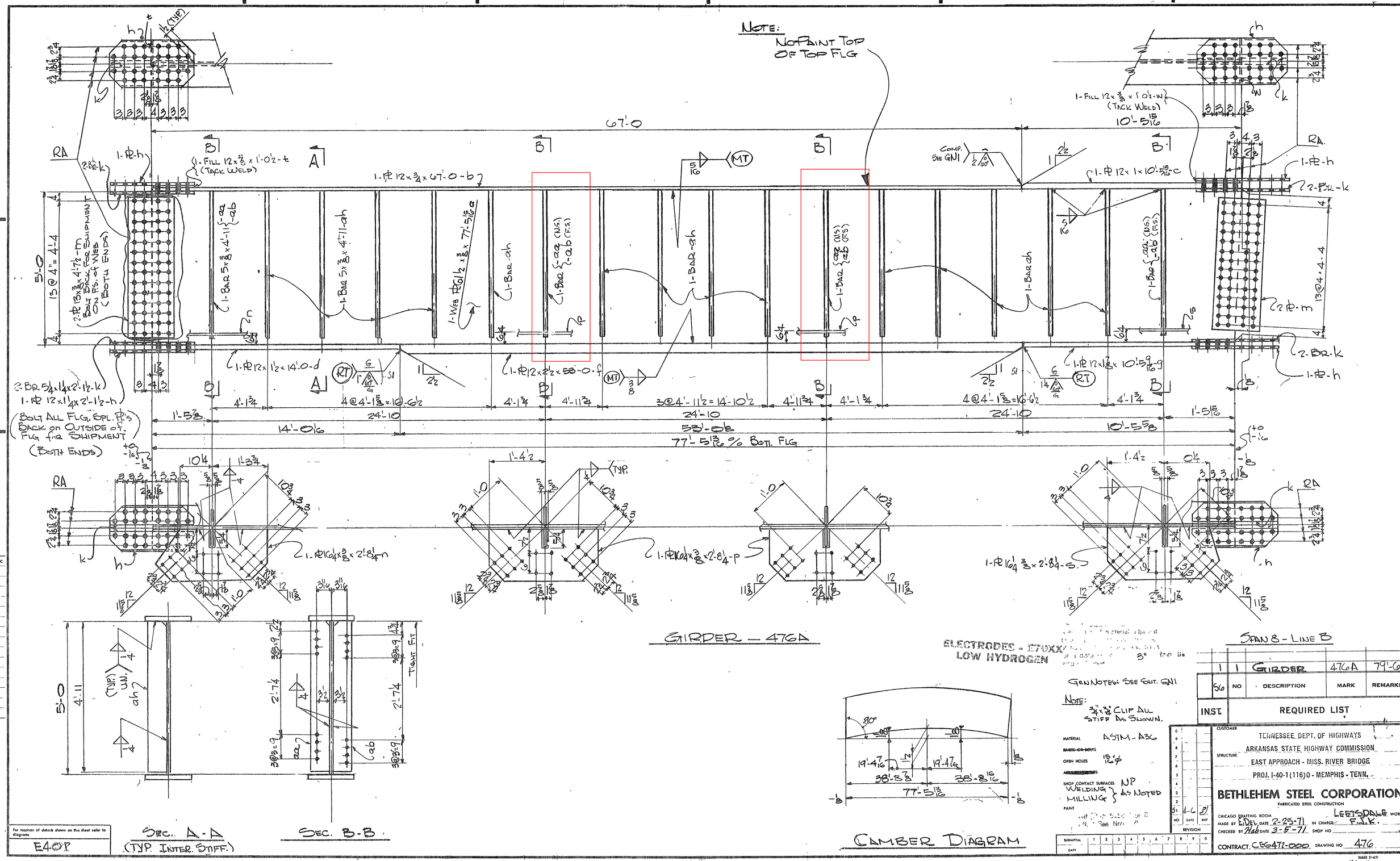
NO	DATE	INIT
51	4-6	

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

For location of details shown on this sheet refer to diagram.
E401

MICROFILMED



INST.	56	NO	DESCRIPTION	MARK	REMARKS
		1	1 GIRDER	476A	79'-6

REQUIRED LIST

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY E. DEL DATE 2-25-71 IN CHARGE F.J.K.
CHECKED BY Hab DATE 3-5-71 SHOP NO
CONTRACT CEG472-000 DRAWING NO 476

For location of details shown on this sheet refer to diagrams
E40P

MICROFILMED

M-48-103

NOTE:
NO PAINT TOP OF TOP FLG

1-PL 12 x 5/8 x 1'-0 1/2 - s (TACK WELD)
1-PL 12 x 5/8 x 12'-6 - b
1-PL 12 x 3/4 x 52'-6 - c
1-PL 12 x 9/16 x 12'-5 15/16 - d
1-FILL PL 12 x 7/16 x 1'-0 1/2 - t (TACK WELD)
1-PL 12 x 1 1/4 x 12'-6 - f
1-PL 12 x 2 1/2 x 52'-6 - g
1-PL 12 x 1 1/2 x 12'-5 15/16 - h
1-PL 12 x 7/8 x 77'-5 13/16 - a
1-PL - k
2-PL - m
2-PL - n
2-BAR 5 x 3/8 x 4'-11 - ah
1-BAR 5 x 3/8 x 4'-11 - P
1-BAR - ah
1-BAR - P
2-BAR 5 3/4 x 1 1/4 x 2'-1 1/2 - m
1-PL 12 x 1 1/4 x 2'-1 1/2 - k
2-BAR 13 x 3/8 x 4'-7 1/2 - n
2-BAR - m
1-PL - k

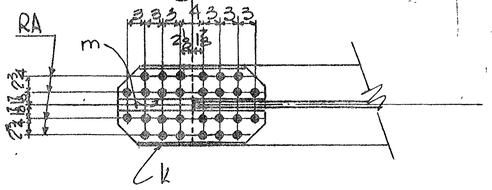
5'-0
13 @ 4" = 4'-4
13 @ 4 = 4'-4

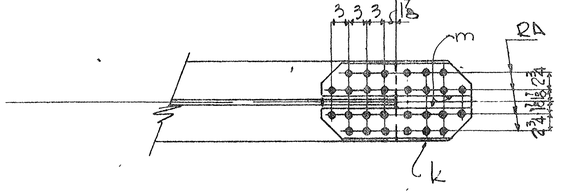
2'-2 3/8 | 4 @ 4'-0 3/8 = 16'-2 1/2 | 4'-1 | 4'-11 3/4 | 3 @ 4'-11 1/2 = 14'-10 1/2 | 4'-11 3/4 | 4'-1 3/4 | 4 @ 4'-1 5/8 = 16'-6 1/2 | 4'-1 3/4 | 3'-1 3/4 | 2'-2 3/8

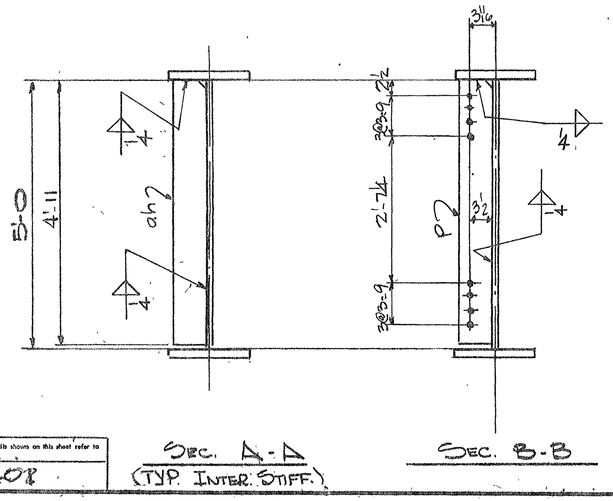
22'-5 3/8 | 24'-10 | 24'-10 | 5'-3 5/8
12'-6 1/16 | 52'-6 3/8 | 12'-5 5/8
77'-5 13/16 % BOTT FLG.

(BOLT ALL SPL. PL'S BACK FOR SHIPMENT (BOTH ENDS)

RA

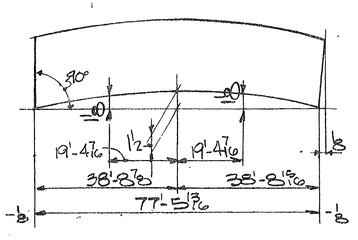






SEC. A-A
(TYP. INTER. STIFF.)

SEC. B-B



CAMBER DIAGRAM

ELECTRODES - E70XX
LOW HYDROGEN

... type of material ship with ... all ... must be used ... bars, ... and paint ... a ... of ... 3" from ... edges.

GEN NOTES: SEE SHT. GN1

NOTE:
3/4" x 3/4" CLIP ALL STIFF AS SHOWN.

	1	GIRDER	477A	79-6
SIZE	NO.	DESCRIPTION	MARK	REMARKS
INST.		REQUIRED LIST		

SPAN 8 - LINE A

MATERIAL ASTM - A36
RIVETS OR BOLTS
OPEN HOLES 15/16" ø
SHOP CONTACT SURFACES WELDING, MILLING } AS NOTED N.P.
PAINT
Sand 21-F SLED Type II
D.N. - See Note "P"

REVISION: NO. 5 | DATE 4-6 | INIT B'

SUBMITTAL | DATE

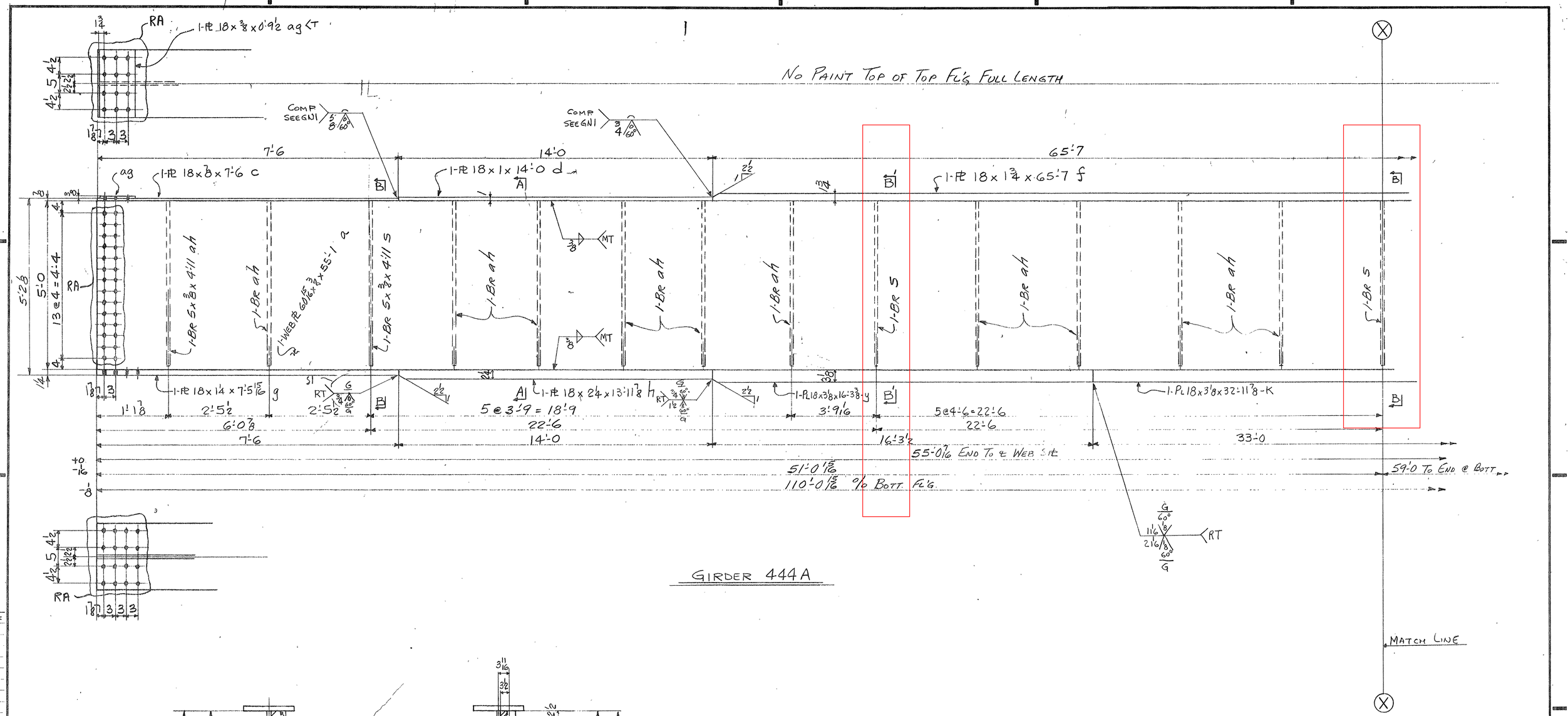
CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY E.DEL DATE 2-26-71 IN CHARGE F.J.K.
CHECKED BY Hab DATE 3-5-71 SHOP NO.
CONTRACT CEG 472-000 DRAWING NO. 477

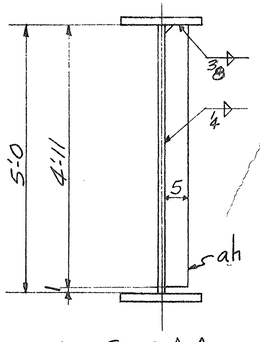
For location of details shown on this sheet refer to diagrams. E407

M-48-104

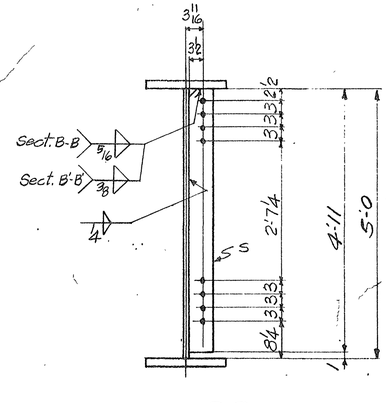
MICROFILMED



GIRDER 444A



SECT A-A
(TYP. INTERMEDIATE STIFF)



SECT. B-B
SECT. B'-B'

SPAN E9 LINE F

NOTE A
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint from the group of holes.

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
SEE DRWG 444 BB

CUSTOMER TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS RIVER BRIDGE
PROJ 1-40-1 (116) O - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE 2-10-71 IN CHARGE FJK
CHECKED BY [illegible] DATE 3-3-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 444 AB

NO	DATE	INIT
5	4-5	[illegible]

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

For location of details shown on this sheet refer to diagrams
E401

M-48:59

36663 (1-63)

MICROFILMED

NO PAINT TOP OF TOP FLG FULL LENGTH

65'-7

13'-0

10'-0 3/8

1-PL 18x1x13'-0-m

1-PL 18x7/8x10'-0 3/8 P

1-PL 18x1 1/2x1'-7 1/2-ab
12-HSB 7/8"ϕ x 3 1/2
12-HW
(FULLY TORQUED)

1-BR 8x 9/16 x 1'-7 1/2-ac-FS

1-PL ag F.S.

RA

COMP SEE GN1

3/4 60°

1 1/2

1-BR ah

1-BR s

1-PL-y

1-PL 18x24x12'-11 7/8 m

1-PL 18x14x9'-11 7/8-w

4:12 25% R.T.

10" R.T.

1-BR 6 0 15/16 x 3/8 x 55'-0 9/16 b

5 @ 4'-6 = 22'-6

4'-6 1/16

4 @ 4'-6 = 18'-0

22'-6 1/16

5 @ 3'-9 = 18'-9

22'-6

3'-9

4 @ 3'-2 9/16 = 12'-10 4

13'-11 15/16

13'-0

9'-11 15/16

1'-1 11/16

13 @ 4 = 4'-4

5'-0

ag

ab

ac

af

ad

RA

2-PLS 13x3/8x4'-7 1/2-aa
28-HSB 7/8"ϕ x 2 1/2
28-HW
(FINGER TIGHTEN)

1-PL 18x5/8x2'-1 1/2-ad-FS
16-HSB 7/8"ϕ x 3 3/4
16-HW
(FULLY TORQUED)

1-BR 8x5/8x2'-1 1/2-af

RA

33'-0

55'-1 1/16

51'-0 15/16

16'-3 1/2

55'-0 1/2 ℄ WEB SHR TO END @ BOTT

59'-0

110'-0 15/16 % BOTT FL'G

+0
-1/16

-1/8

℄ WEB SHR

MATCH LINE

RT

GIRDER 444A

FOR GEN NOTES SEE SHT GN1

			1	1	GIRDER	444A	5'-7x1/16x111-4
			S4	NO.	DESCRIPTION	MARK	REMARKS
INST.			REQUIRED LIST				

3/4 x 3'-7 CLIP ALL STIFF AS SHOWN

SPAN E9- ; LINE F

MATERIAL ASTM-A36
BOLTS 7/8"ϕ
OPEN HOLES 15/16" SEE GEN NOTES
A325 FIELD BOLTS —
SHOP CONTACT SURFACES NP
WELDING AS NOTED
PAINT 1 Coat TT.P 615d Type II
U.N. : See Note X

CUSTOMER TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH-MISS RIVER BRIDGE
PROJ I-40-1(11G)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE IN CHARGE F.J.K
CHECKED BY DATE 3-3-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 444 BB

S1 4-5-71 NO DATE INIT REVISION

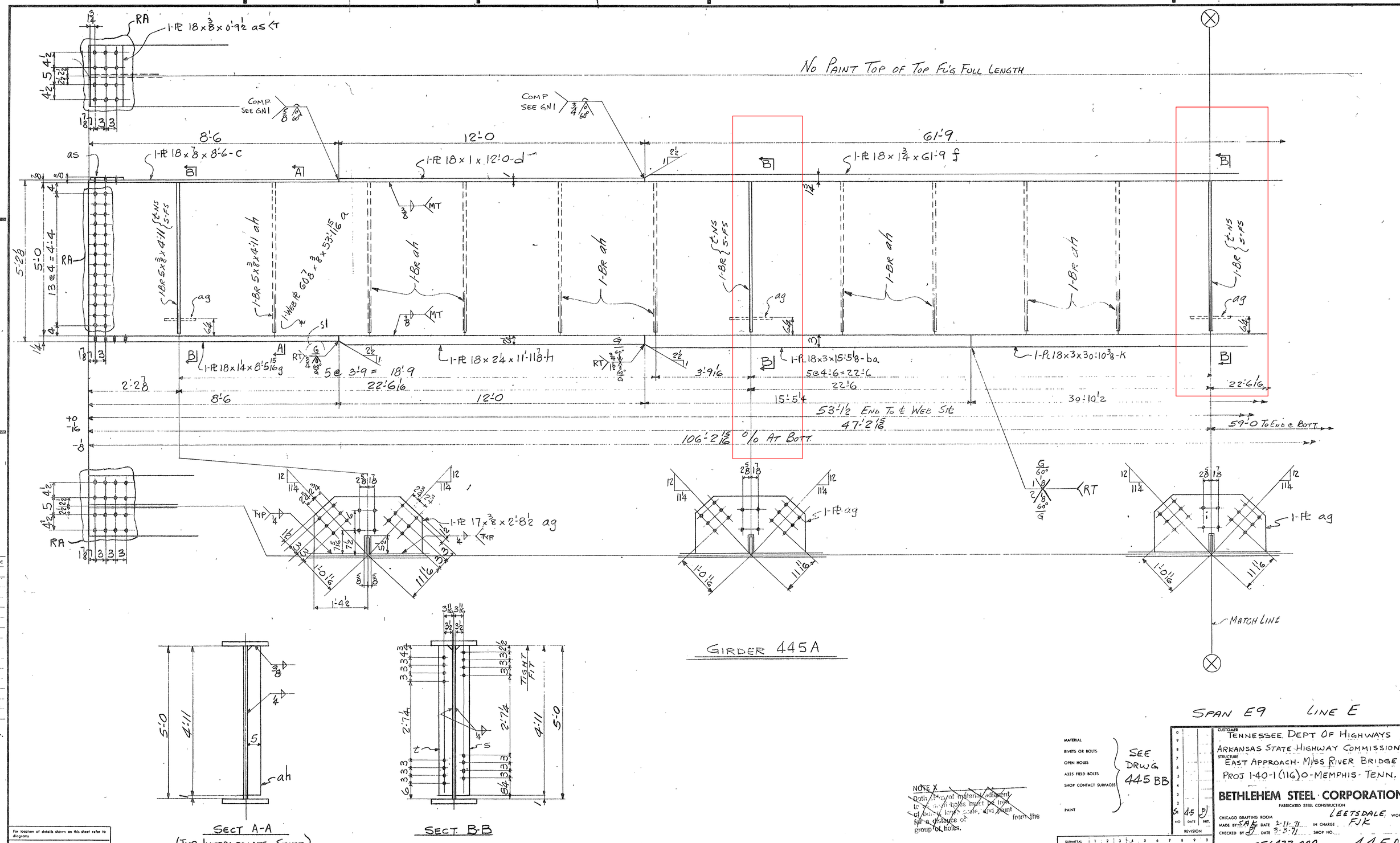
SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

For location of details shown on this sheet refer to diagrams.
E401

MICROFILMED

36663 11-67

11-48-60



For location of details shown on this sheet refer to diagrams

E401

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of from the group of holes.

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

SEE DRWG 445 BB

NO	DATE	INIT.
S1	4-5	PJ

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

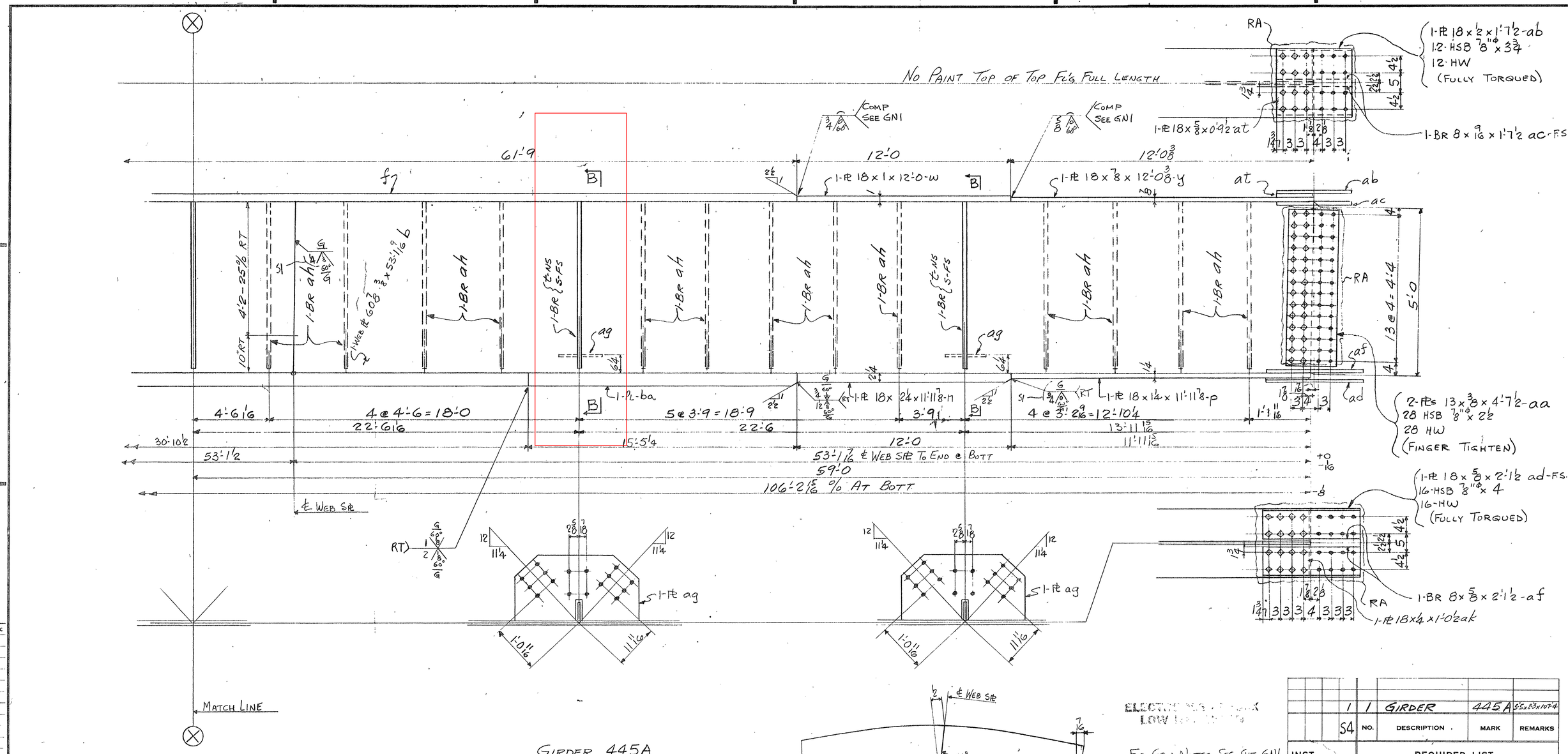
CUSTOMER
TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS RIVER BRIDGE
PROJ 1-40-1 (116) O - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE, WORKS
MADE BY SAK DATE 2-11-71 IN CHARGE FJK
CHECKED BY PJ DATE 3-3-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 445AB

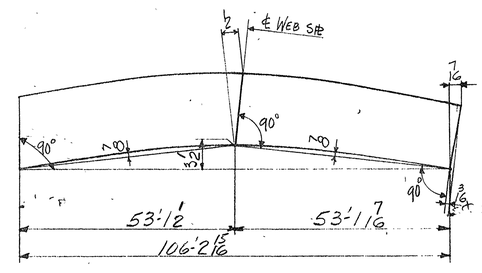
36663 (1-65)

M-48-61

MICROFILMED



GIRDER 445A



CAMBER DIAGRAM

For Gen Notes See Sht GN1

3/4 x 3/4 Clip All Stiff As Shown

INST.				REQUIRED LIST			
			1	1	GIRDER	445A	5'-5 x 2'-3 x 107'-4
			S4	NO.	DESCRIPTION	MARK	REMARKS

MATERIAL ASTM-A36
BOLTS 7/8"φ
OPEN HOLES 15/16"φ See Gen Notes
A325 FIELD BOLTS
SHOP CONTACT SURFACES NP
WELDING As Noted
PAINT 1 Coat TT-P 615d Type II
U.N.: See Note "X"

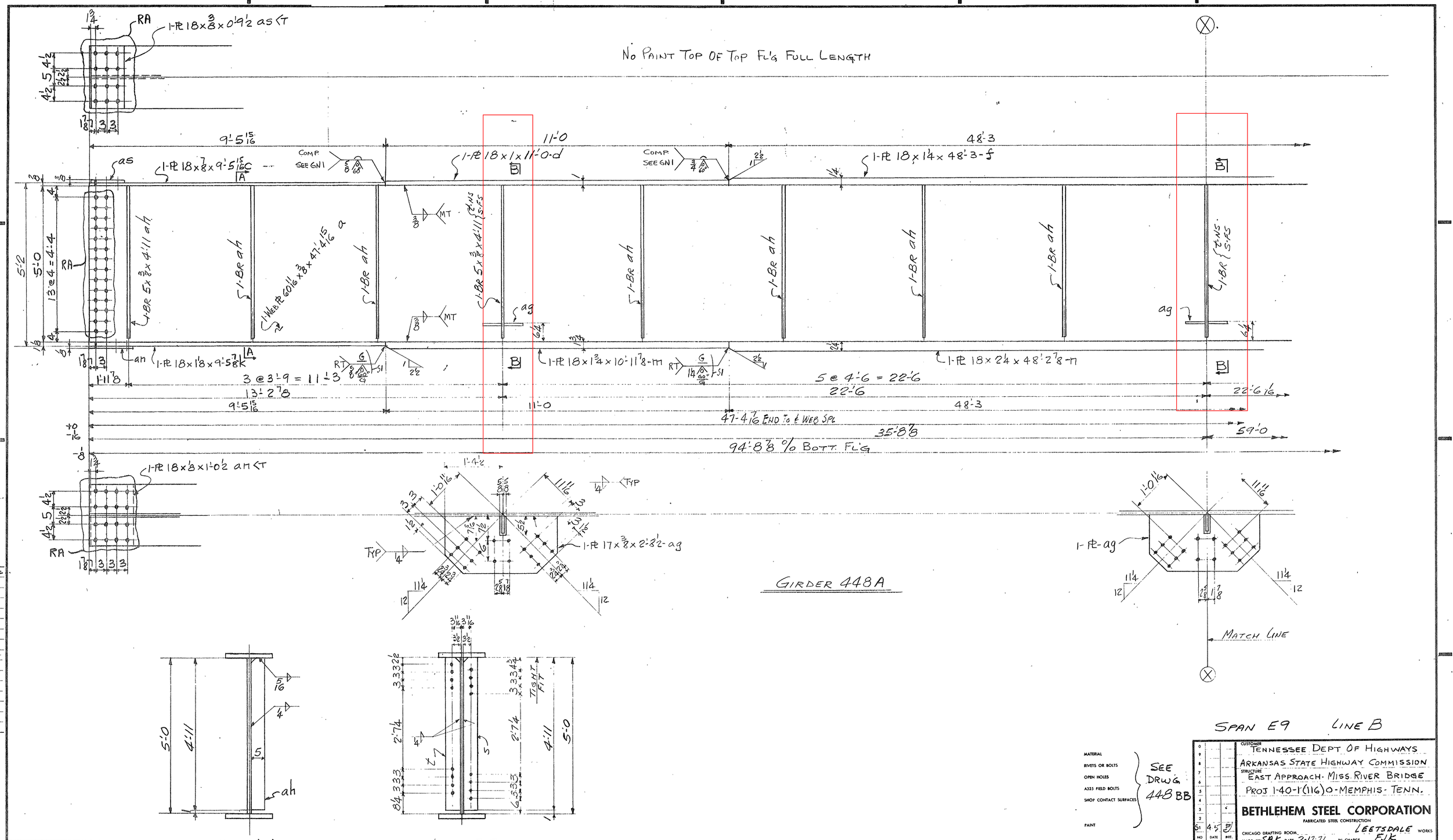
SPAN E9- LINE E

CUSTOMER Tennessee Dept Of Highways
Arkansas State Highway Commission
STRUCTURE East Approach-Miss River Bridge
Proj I-40-1(116)0- Memphis - Tenn.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE 7-11-71 IN CHARGE F.J.K
CHECKED BY PJ DATE 3-4-71 SHOP NO
CONTRACT CE6472-000 DRAWING NO. 445 BB

For location of details shown on this sheet refer to diagrams.
E401

M-48-62



For location of details shown on this sheet refer to diagrams.

E401

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

SEE DRWG 448 BB

NO	DATE	INIT.
S1	4-5	JJ

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

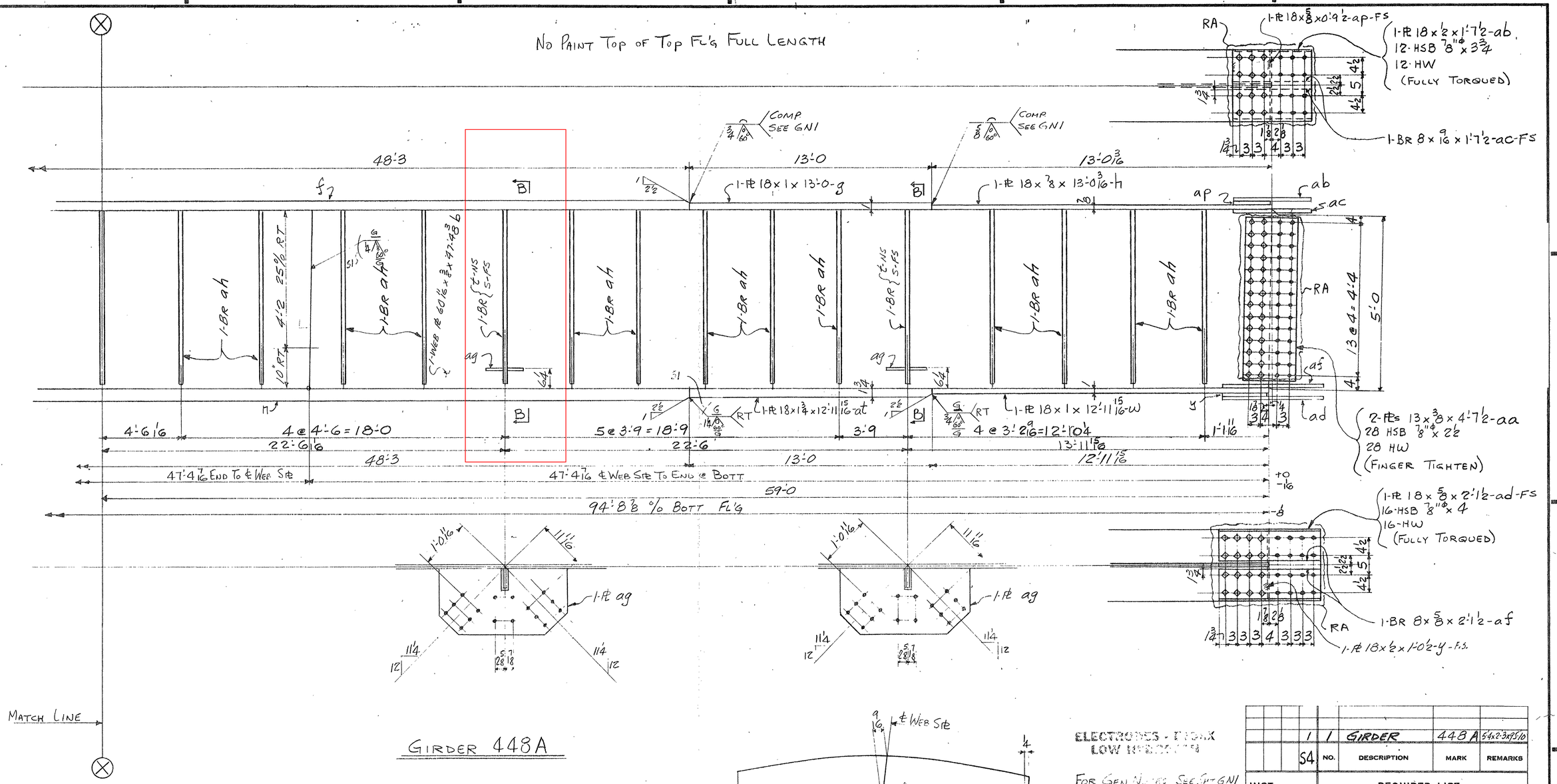
CUSTOMER
TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ 1-40-1(116)0-MEMPHIS-TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE 2-17-71 IN CHARGE FJK
CHECKED BY JJ DATE 3-4-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 448 AB

M-48-67

MICROFILMED



		1	1	GIRDER	448 A	5'4x2'3x9'5/10
		S4	NO.	DESCRIPTION	MARK	REMARKS
INST.			REQUIRED LIST			

ELECTRODES - [illegible]
LOW [illegible]

For Gen Notes See Sht GN1

3/4 x 3/4 Clip All Stiff As Shown

Span E9- Line B

MATERIAL ASTM-A36
BOLTS 7/8"φ
OPEN HOLES 15/16"φ See Gen Notes
A325 FIELD BOLTS —
SHOP CONTACT SURFACES N.P.
WELDING: As Noted
PAINT [illegible] II

NO	DATE	INIT
1	4-5	[illegible]

REVISION

CUSTOMER Tennessee Dept. Of Highways
Arkansas State Highway Commission
STRUCTURE East Approach - Miss River Bridge
Proj I-40-1(116)0 - Memphis - Tenn.

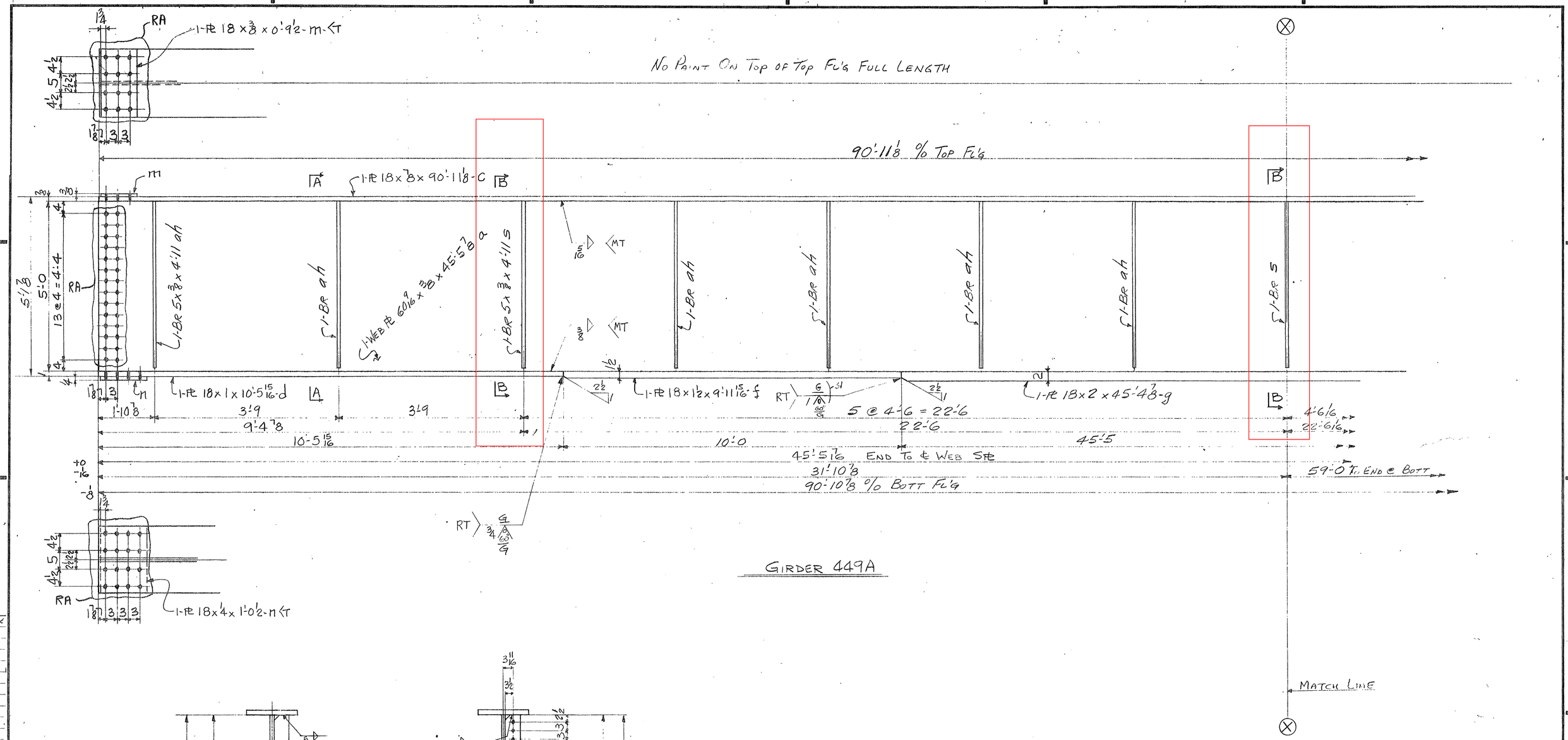
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE 2-17-71 IN CHARGE F.J.K
CHECKED BY [illegible] DATE 3-4-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 448 BB

For location of details shown on this sheet refer to diagrams.

E401

M-48-68

MICROFILMED



Span E9 Line A

Material	See Drwg 449 BB
Rivets or Bolts	
Open Holes	
A325 Field Bolts	
Shop Contact Surfaces	
Paint	

No	Date	Init
51	4-5	BJ

Revision

Customer: Tennessee Dept Of Highways
Arkansas State Highway Commission
Structure: East Approach - Miss River Bridge
Proj 1-40-1(116)0-Memphis-Tenn.

BETHLEHEM STEEL CORPORATION
Fabricated Steel Construction
Chicago Drafting Room — Leetsdale Works
Made by SAK Date 2-18-71 In Charge FJK
Checked by E Date 3-4-71 Shop No.
Contract CE6472-000 Drawing No 449AB

Submittal / Date

Per location of details shown on this sheet refer to diagrams.

E401

MICROFILMED

M-48-69

NO PAINT TOP OF TOP FLG FULL LENGTH

90'-11⅛ ℄ TOP FLG

1-BR ah

1-BR S

1-WEB PL 60⅛ x ⅜ x 45'-5⅜ b

10 RT 4'-2 25% RT

5 G 60° 1/16

4'-6 1/16

4 @ 4'-6 = 18'-0

22'-6 1/16

45'-5

45'-5 7/16 ℄ WEB SHL TO END

5 @ 3'-9 = 18'-9

22'-6

1-PL 18 x 1½ x 11'-11 15/16 h

3'-9

12'-0

4 @ 3'-2 9/16 = 12'-10 4

13'-11 15/16

12'-11 15/16

45'-5 7/16 ℄ WEB SHL TO END @ BOTT

59'-0

90'-10 7/8 ℄ BOTT FLG

1-PL 18 x ⅞ x 12'-11 15/16 k

1'-1 11/16

MATCH LINE

GIRDER 449A

1-PL 18 x ½ x 0'-9½ p-FS

1-PL 18 x ½ x 1'-7½ -ab
12-HSB ⅞"ϕ x 3¾
12-HW
(FULLY TORQUED)

1-BR 8 x 9/16 x 1'-7½ ac-FS

RA

P

ab

ac

4

13 @ 4 = 4'-4

5'-0

RA

as

ad

2-PLFS 13 x ⅜ x 4'-7½ -aa
28 HSB ⅞"ϕ x 2½
28 HW
(FINGER TIGHTEN)

+0
-16

1-PL 18 x ⅝ x 2'-1½ -ad-FS
16-HSB ⅞"ϕ x 4
16-HW
(FULLY TORQUED)

1-BR 8 x ⅝ x 2'-1½ -af

RA

1-PL 18 x ½ x 1'-0½ -t-FS

51 G 1/16 60° G RT

℄ WEB SHL

½

¼

90°

0-6

2½

90°

0-6

90°

45'-5 7/16

45'-5 7/16

90'-10⅞

CAMBER DIAGRAM

ELECTRODES - E70XX
LOW HYDROGEN

FOR GEN NOTES SEE SHT GN1

			1	1	GIRDER	449 A	54x146x92-0
			S4	NO.	DESCRIPTION	MARK	REMARKS
INST.			REQUIRED LIST			

3"x3"x¼ CLIP ALL STIFF AS SHOWN

SPAN E9- LINE A

MATERIAL ASTM-A36
BOLTS ⅞"ϕ
OPEN HOLES 15/16"ϕ SEE GEN NOTES
A325 FIELD BOLTS —
SHOP CONTACT SURFACES N.P.
WELDING: AS NOTED
PAINT

51 4-5-81
NO DATE INIT
REVISION

SUBMITTAL
DATE

CUSTOMER TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH-MISS RIVER BRIDGE
PROJ I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
LEETSDALE WORKS

CHICAGO DRAFTING ROOM
MADE BY SNK DATE 3-18-71 IN CHARGE FJK
CHECKED BY DATE 3-24-71 SHOP NO

CONTRACT CE6472-000 DRAWING NO 449 BB

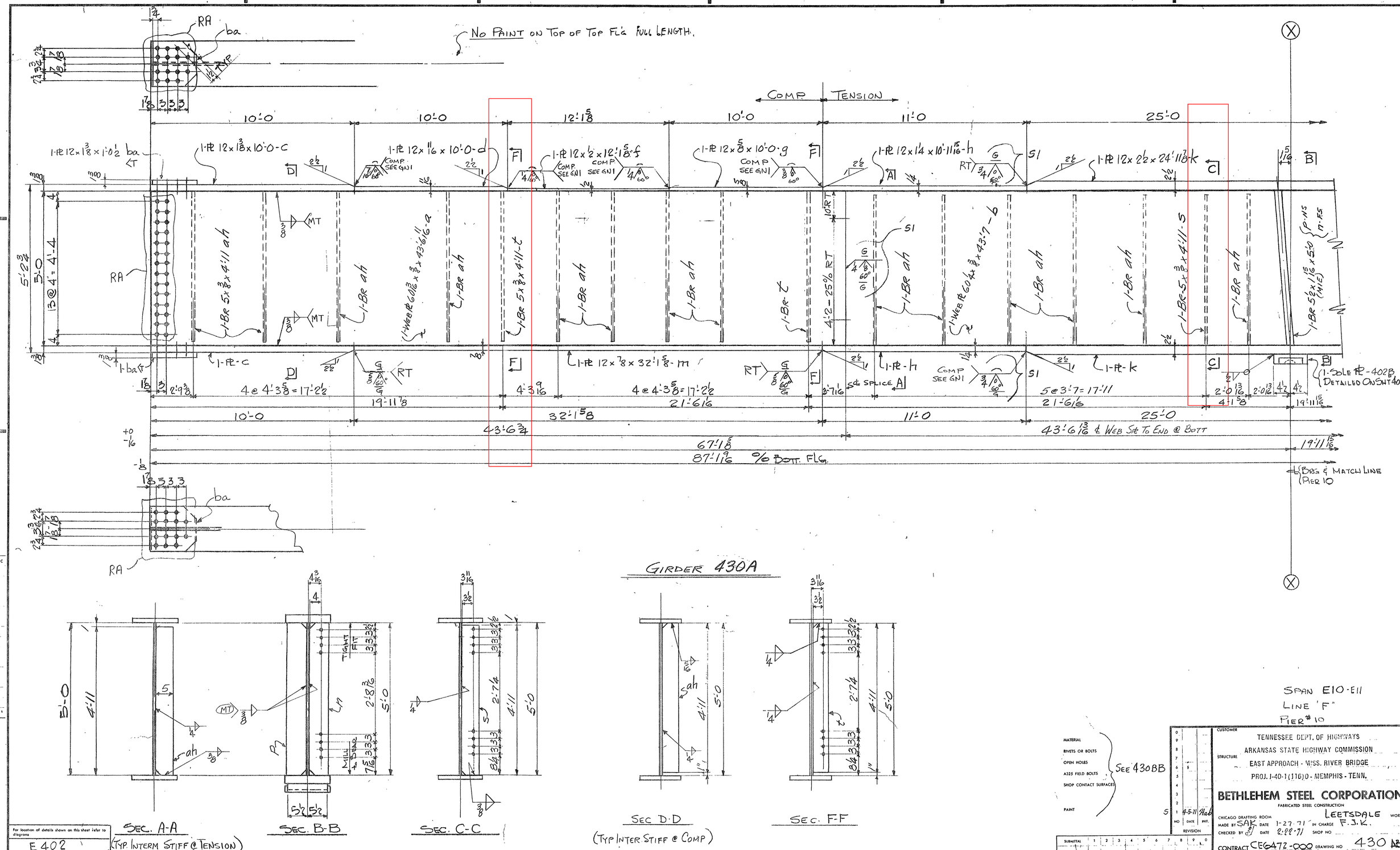
20603 (1-65)

M-48-70

For location of details shown on this sheet refer to diagrams.

E401

MICROFILMED



For location of details shown on this sheet refer to diagrams

E 402

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
See 430BB

NO	DATE	INIT.
5	4-5-71	Hab

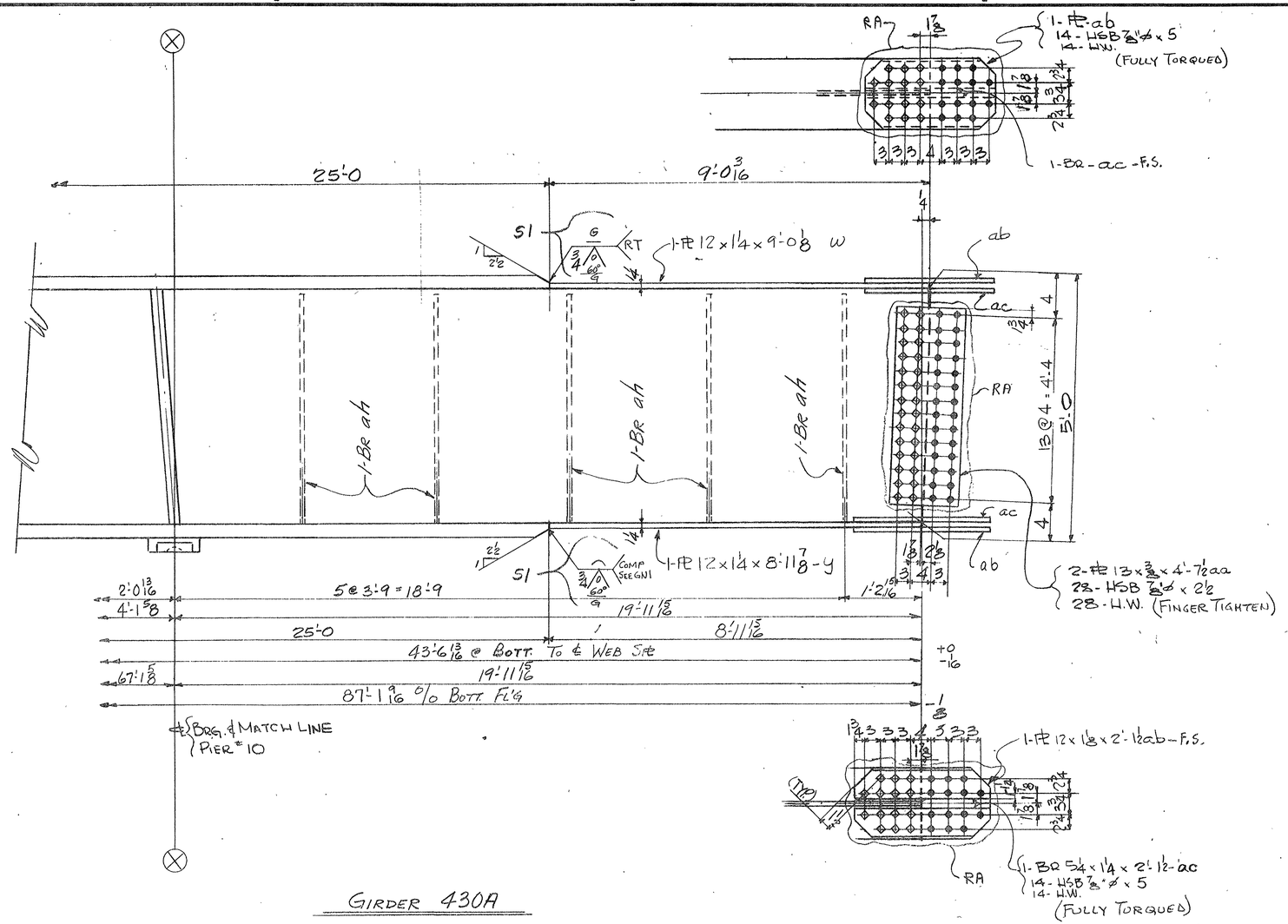
REVISION

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

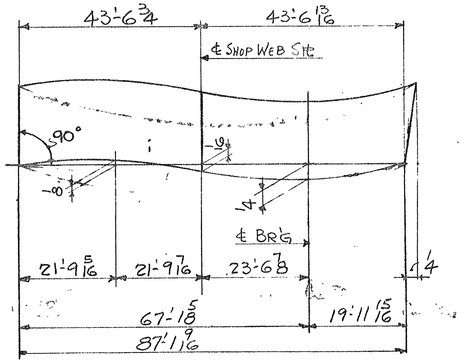
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY SAK DATE 1-27-71 IN CHARGE F.J.K.
CHECKED BY [illegible] DATE 2-22-71 SHOP NO
CONTRACT CE6472-000 DRAWING NO 430 AB

36663 (1-65)
M-48-350



GIRDER 430A



CAMBER DIAGRAM

(SHOP WEB PL SPLICE SHALL BE WELDED BEFORE CUTTING PLATE)

SPAN E10 - E11

PIER 10 - LINE "F"

INST.	REQUIRED LIST				
	1	1	GIRDER	430A	5'-8 x 1'-0 x 88'-3
	S2	NO.	DESCRIPTION	MARK	REMARKS

FOR GEN. NOTES SEE SHEET GN1

3/4 x 3/4" CLIP ALL STIFF. AS SHOWN

ELECTRODES - E70XX LOW HYDROGEN

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

MATERIAL ASTM-A36

~~RIVETS OR~~ BOLTS 7/8"ø

OPEN HOLES 15/16"ø SEE GEN. NOTES

A325 FIELD BOLTS —

SHOP CONTACT SURFACES N.P

WELDING AS NOTED

MILLING AS NOTED

PAINT

1 Coat TT-P 615d Type II U.N. 1 See Note 2X1

NO	DATE	INIT
1	4-5-71	Alab

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0

DATE

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS

ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE

PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS

MADE BY SAK DATE IN CHARGE F.J.K.

CHECKED BY JJ DATE 2-22-71 SHOP NO

CONTRACT CEG472-000 DRAWING NO 430 BB

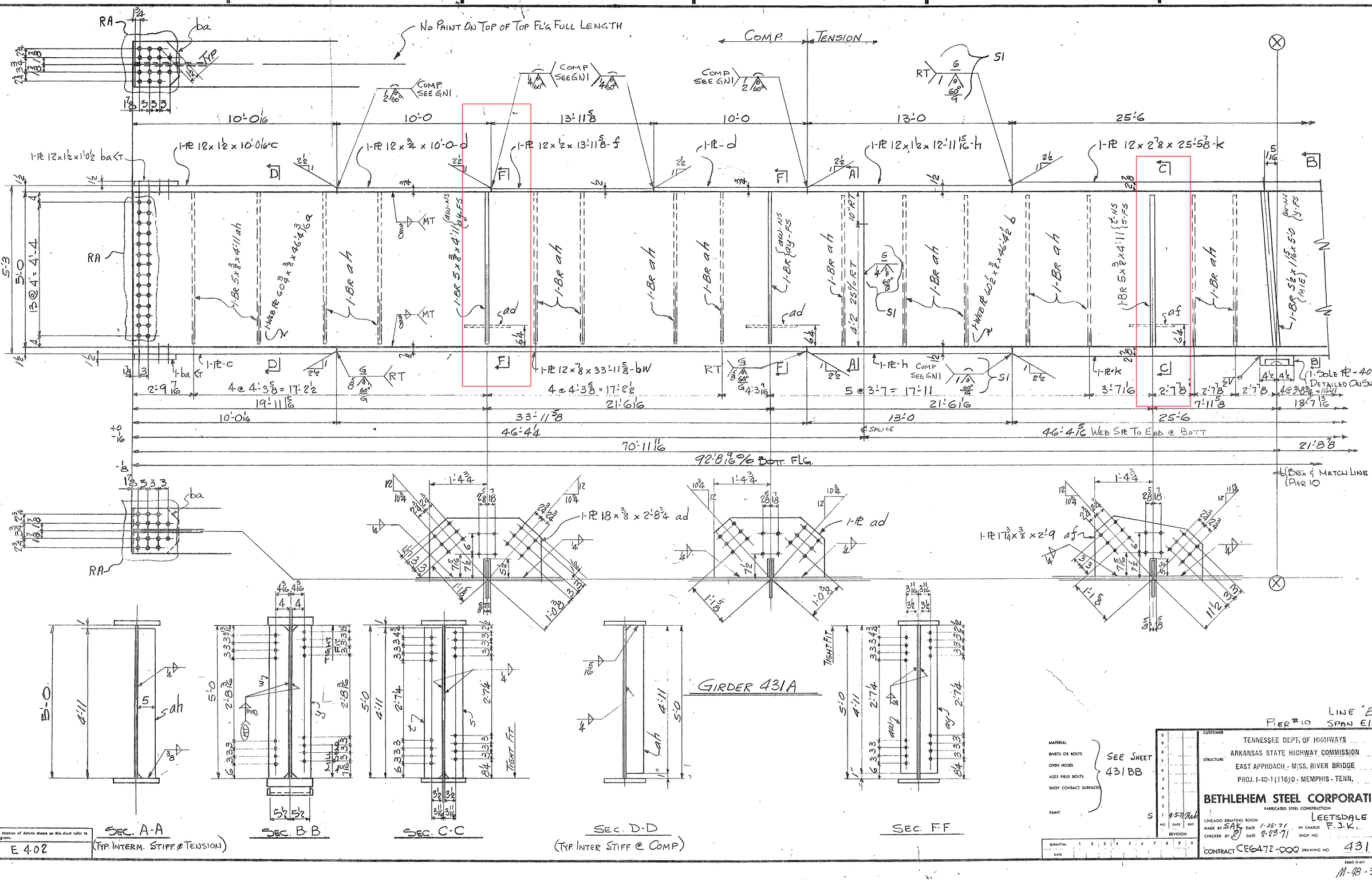
For location of details shown on this sheet refer to diagrams

E402

MICROFILMED

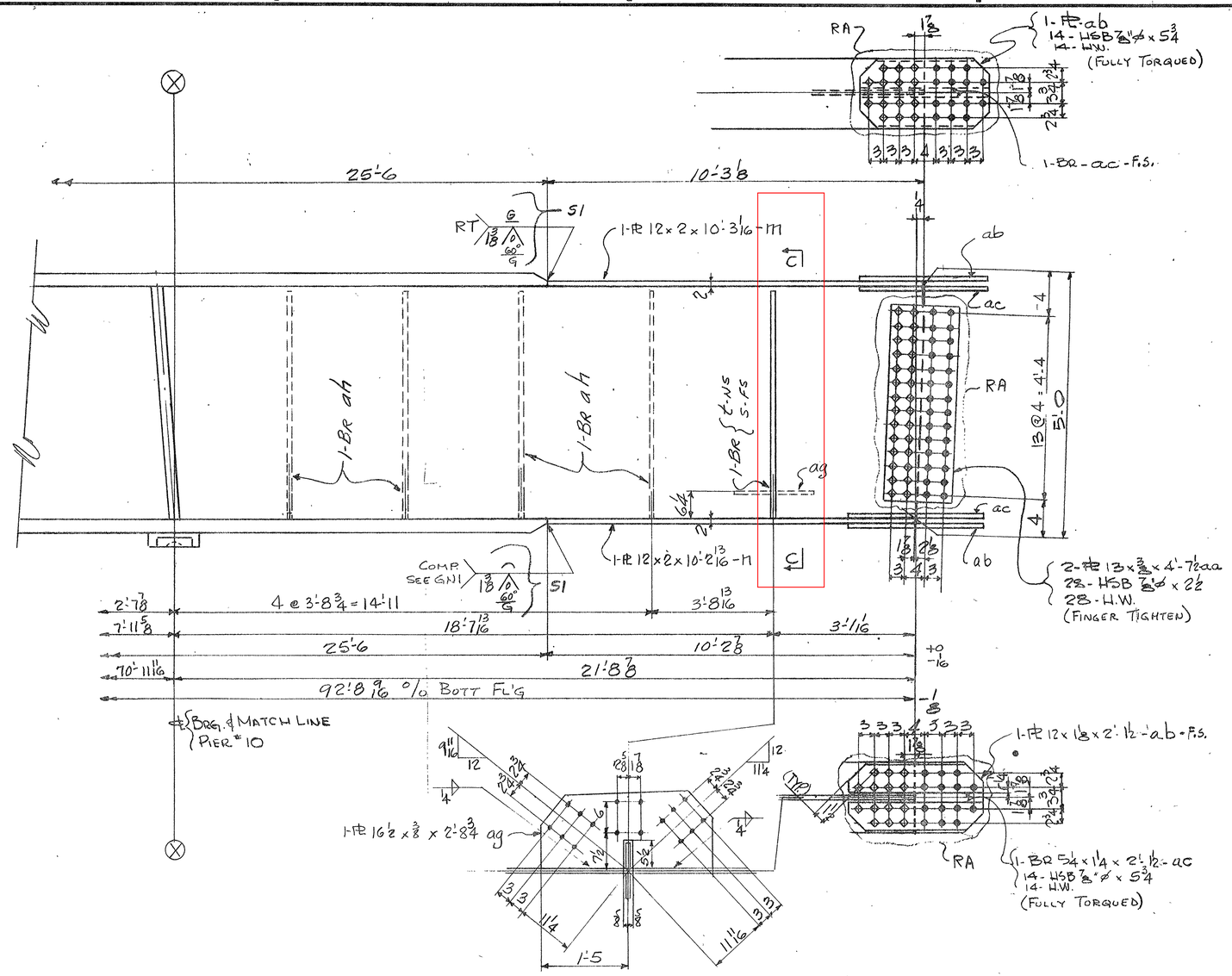
36663 (1-65)

M-48-B6

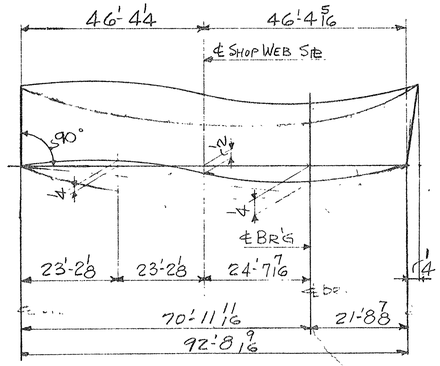


No Paint On Top of Top Fl'g Full Length
Comp. Tension
Comp. See GN1
10'-0 1/16
10'-0
13'-11 5/8
10'-0
13'-0
25'-6
1-PL 12 x 1 1/2 x 10'-0 1/16 - c
1-PL 12 x 3/4 x 10'-0 - d
1-PL 12 x 1/2 x 13'-11 5/8 - f
1-PL 12 x 1 1/2 x 12'-11 15/16 - h
1-PL 12 x 2 7/8 x 25'-5 7/8 - k
1-PL 12 x 1 1/2 x 1'-0 1/2 ba
1-BR 5 x 3/8 x 4'-11 ah
1-WEB PL 60 3/4 x 3/8 x 46'-4 3/16 a
1-BR 5 x 3/8 x 4'-11 (aw-NS ay-FS)
1-BR ah
1-BR (aw-NS ay-FS)
1-BR 5 x 3/8 x 4'-11 (t-NS s-FS)
1-WEB PL 60 1/2 x 3/8 x 46'-4 1/2 b
1-BR 5 1/2 x 1 15/16 x 5'-0 (aw-NS y-FS) (MIE)
1-PL 12 x 7/8 x 33'-11 5/8 - bW
1-PL 18 x 3/8 x 2'-8 3/4 ad
1-PL ad
1-PL 17 3/4 x 3/8 x 2'-9 af
1-Sole PL - 402B Detailed On Sht 402
4 @ 4'-3 5/8 = 17'-2 1/2
5 @ 3'-7 = 17'-11
19'-11 15/16
21'-6 1/16
7'-11 5/8
18'-7 13/16
33'-11 5/8
46'-4 1/4
46'-4 5/16 Web Sp To End @ Bott
70'-11 11/16
21'-8 7/8
92'-8 9/16 % Bott. Flg.
℄ Splice
℄ Brg & Match Line Pier 10
Girder 431A
Sec. A-A (Typ. Interm. Stiff @ Tension)
Sec. B-B
Sec. C-C
Sec. D-D (Typ. Inter Stiff @ Comp)
Sec. F-F
Tight Fit
Mill Bend
Line "E" Pier #10 Span E10-E11
Material
Rivets or Bolts
Open Holes
A325 Field Bolts
Shop Contact Surfaces
Paint
See Sheet 431 BB
Customer
Tennessee Dept. of Highways
Structure
Arkansas State Highway Commission
East Approach - Miss. River Bridge
Proj. I-40-1(116)0 - Memphis - Tenn.
Bethlehem Steel Corporation
Fabricated Steel Construction
Chicago Drafting Room
Leetsdale Works
Made by SAK Date 1-28-71
In Charge F.J.K.
Checked by Date 2-23-71
Shop No
Contract CE6472-000
Drawing No 431 AB
For location of details shown on this sheet refer to diagrams.
E 402

M-48-37



GIRDER 431A



CAMBER DIAGRAM

(SHOP WEB PL SPLICE SHALL BE WELDED BEFORE CUTTING PLATE)

SPAN E10-E11

PIER 10 - LINE E

FOR GEN. NOTES SEE SHEET GN1

INST.	S2	NO.	DESCRIPTION	MARK	REMARKS
	1	1	GIRDER	431A	5'-9 x 1'-10 x 93'-10

REQUIRED LIST

ELECTRODES - E70XX LOW HYDROGEN

1 3/4 x 3/4" CLIP ALL STIFF. AS SHOWN

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

MATERIAL ASTM-A36

BOLTS 7/8"ø

OPEN HOLES 15/16"ø SEE GEN NOTES

A325 FIELD BOLTS

SHOP CONTACT SURFACES N.P.

WELDING: AS NOTED

MILLING AS NOTED

PAINT 1 Coat TT-P 615d Type II U.N. 1 See Note "X"

NO	DATE	INIT
1	4-5-71	Hab

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0

DATE

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS

STRUCTURE ARKANSAS STATE HIGHWAY COMMISSION

EAST APPROACH - MISS. RIVER BRIDGE

PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS

MADE BY SAK DATE 1-29-71 IN CHARGE F.J.K.

CHECKED BY DATE 2-23-71 SHOP NO.

CONTRACT CEG472-000 DRAWING NO. 431 BB

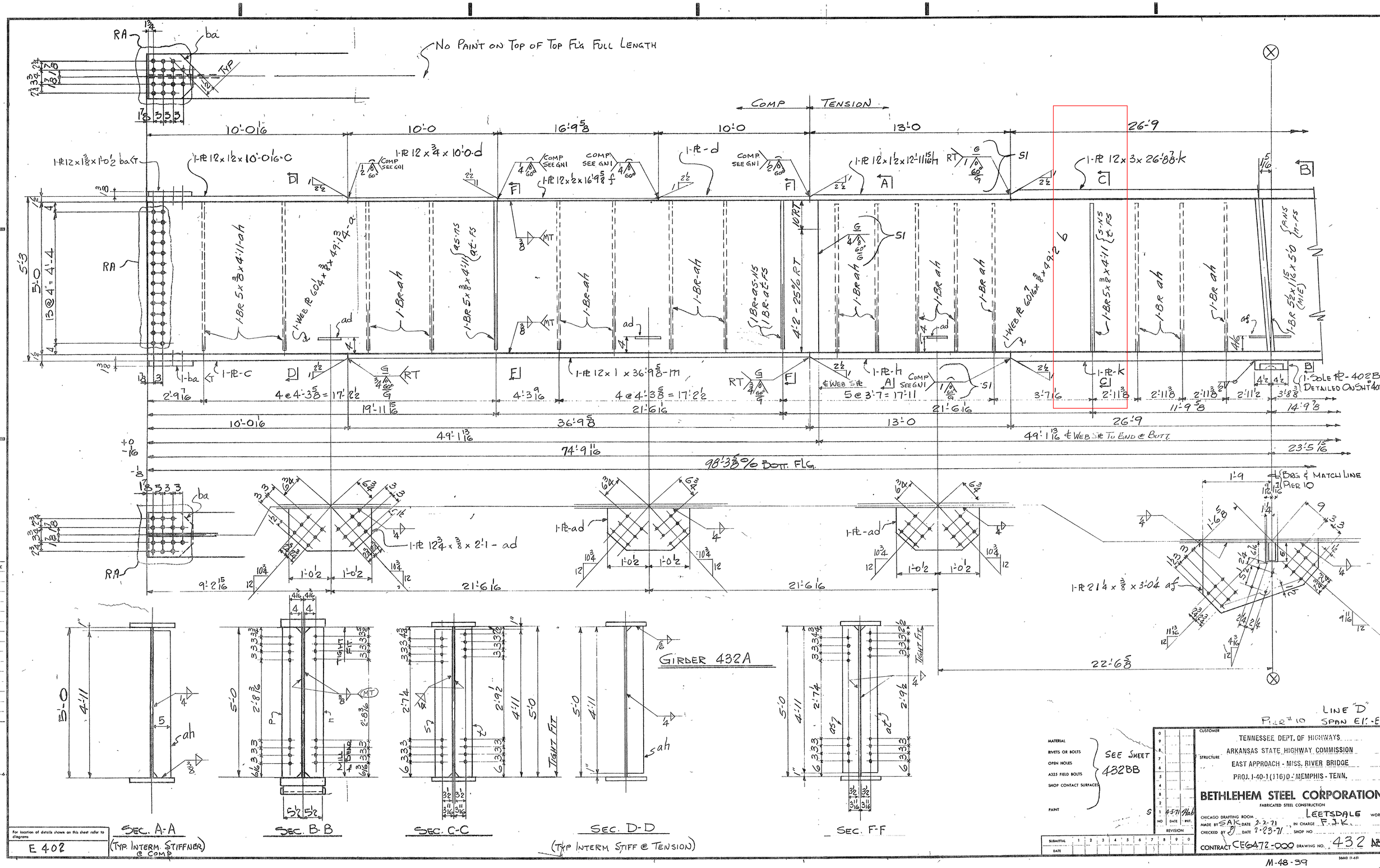
For location of details shown on this sheet refer to diagrams.

E402

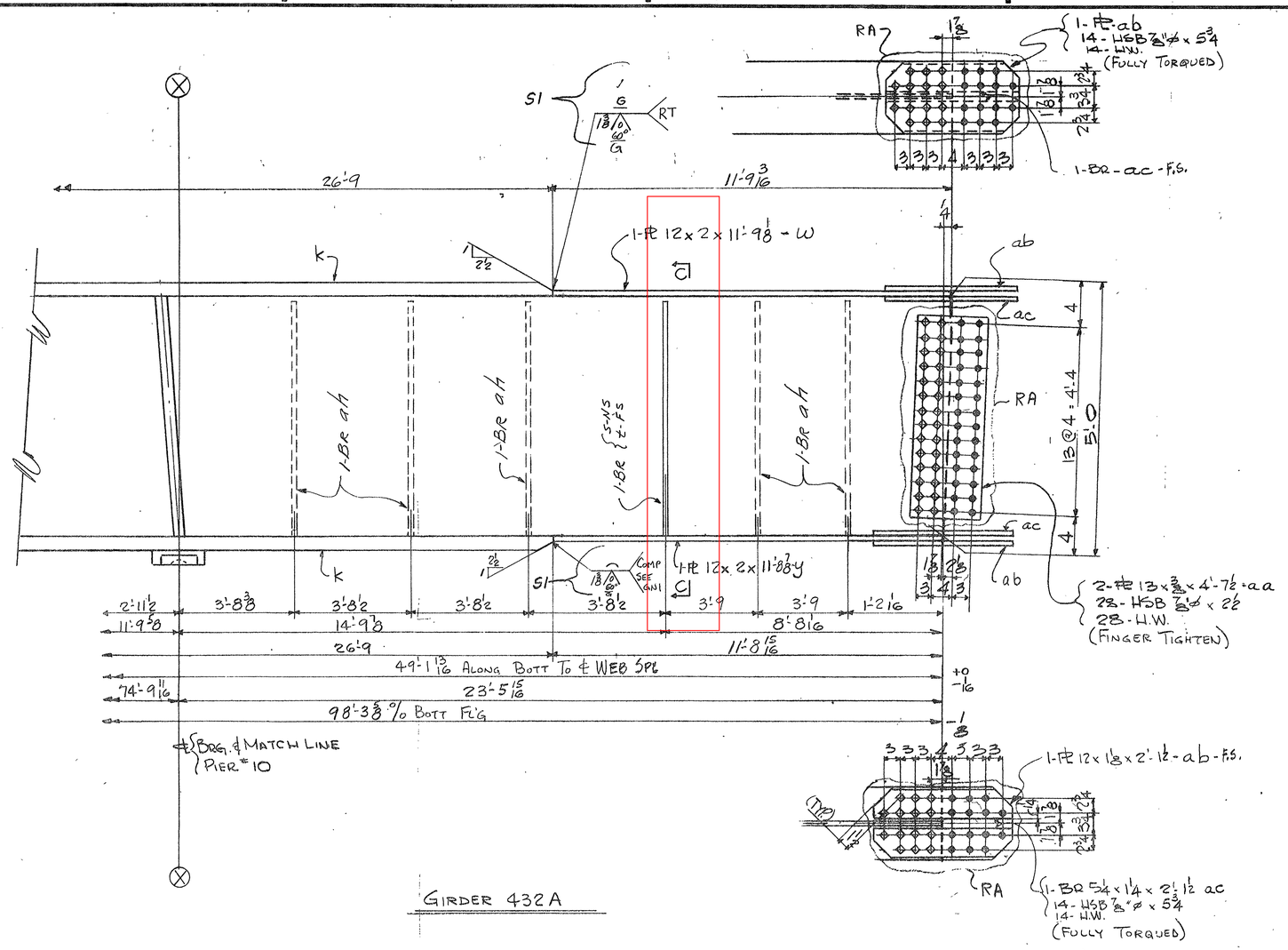
MICROFILMED

34663 (1-65)

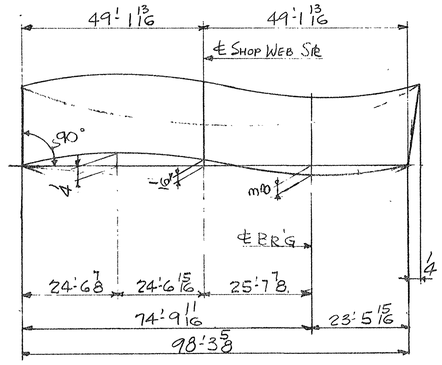
M-48-38



No Paint on Top of Top Flg Full Length
Comp
Tension
10'-0 1/16
10'-0
16'-9 5/8
10'-0
13'-0
26'-9
1-PL 12 x 1 3/8 x 1'-0 1/2 ba
1-PL 12 x 1 1/2 x 10'-0 1/16 c
1-PL 12 x 3/4 x 10'-0 d
1-PL 12 x 1/2 x 16'-9 5/8 f
1-PL 12 x 1 1/2 x 12'-11 15/16 h
1-PL 12 x 3 x 26'-8 7/8 k
1-BR 5 x 3/8 x 4'-11 ah
1-WEB PL 60 1/4 x 3/8 x 49'-1 3/4 a
1-BR ah
1-BR 5 x 3/8 x 4'-11 as-ns at-fs
1-BR ah
1-BR ah
1-BR as-ns 1-BR at-fs
4'-2 - 25% RT
1-BR ah
1-BR ah
1-WEB PL 60 7/16 x 3/8 x 49'-2 b
1-BR 5 x 3/8 x 4'-11 s-ns t-fs
1-BR ah
1-BR ah
1-BR 5 1/2 x 1 15/16 x 5'-0 p-ns n-fs
1-PL 12 x 1 x 36'-9 5/8 m
1-PL-h
1-PL-k
1-Sole PL-402B Detailed On Sht 402
4 @ 4'-3 5/8 = 17'-2 1/2
4 @ 4'-3 5/8 = 17'-2 1/2
5 @ 3'-7 = 17'-11
19'-11 15/16
21'-6 1/16
21'-6 1/16
11'-9 5/8
14'-9 7/8
10'-0 1/16
36'-9 5/8
13'-0
26'-9
49'-1 13/16
49'-1 13/16 ℄ Web Sht To End @ Bott.
74'-9 11/16
23'-5 15/16
98'-3 5/8 % Bott. Flg.
1-PL 12 3/4 x 3/8 x 2'-1 - ad
1-PL-ad
1-PL-ad
1-PL 21 1/4 x 3/8 x 3'-0 1/4 af
9'-2 15/16
21'-6 1/16
21'-6 1/16
22'-6 5/8
Brg & Match Line Pier 10
Girder 432A
Sec. A-A
(Typ. Interm. Stiffner @ Comp)
Sec. B-B
Sec. C-C
Sec. D-D
(Typ Interm Stiff @ Tension)
Sec. F-F
Tight Fit
Mill to Bear
Line "D"
Pier #10 Span E1'-E11
Material
Rivets or Bolts
Open Holes
A325 Field Bolts
Shop Contact Surfaces
Paint
See Sheet 432BB
Customer
Tennessee Dept. of Highways
Arkansas State Highway Commission
Structure
East Approach - Miss. River Bridge
Proj. I-40-1(116)0 - Memphis - Tenn.
Bethlehem Steel Corporation
Fabricated Steel Construction
Chicago Drafting Room
Leetsdale
Works
Made by SAK Date 2-2-71
In Charge F.J.K.
Checked by DJ Date 2-23-71
Shop No
Contract CE6472-000
Drawing No. 432 AB
For location of details shown on this sheet refer to diagrams
E 402
M-48-39



GIRDER 432A



CAMBER DIAGRAM
(SHOP WEB PL SPL SHALL BE WELDED BEFORE CUTTING PL)

SPAN E10-E11
PIER 10 - LINE D

FOR GEN NOTES SEE SHEET GN1

INST.	S2	NO.	DESCRIPTION	MARK	REMARKS
	1	1	GIRDER	432 A	5'-9x2'-5x99'-6

REQUIRED LIST

3/4 X 3/4" CLIP ALL STIFF. AS SHOWN

MATERIAL ASTM-A36
BOLTS 7/8"ø
OPEN HOLES 15/16" SEE GEN NOTE
A325 FIELD BOLTS —
SHOP CONTACT SURFACES NP
WELDING: AS NOTED
MILLING: AS NOTED
PAINT 1 Coat II-P 615d Type II S
U.N. 1 See Note DXI

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

NO	DATE	INIT.
1	4-5-71	Hab

REVISION

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
STRUCTURE: ARKANSAS STATE HIGHWAY COMMISSION
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY SAK DATE 2-2-71 IN CHARGE F.J.K.
CHECKED BY [illegible] DATE 2-23-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO. 432 BB

For location of details shown on this sheet refer to diagrams
E402

M-48-40

MICROFILMED

NO PAINT ON TOP OF TOP FL'G FULL LENGTH

COMP | TENSION

10'-0 1/16 | 10'-0 | 19'-7 5/8 | 10'-0 | 13'-0 | 28'-6

1-PL 12 x 1 3/8 x 1'-0 1/2 ba ◁T | 1-PL 12 x 1 3/8 x 10'-0 1/16 C | 1-PL 12 x 11/16 x 10'-0 d | 1-PL 12 x 1/2 x 19'-7 5/8 f | 1-PL 12 x 7/8 x 10'-0 g | 1-PL 12 x 1 3/4 x 12'-11 15/16 h | 1-PL 12 x 3/4 x 28'-5 7/8 k

COMP. SEE GN 1

RA | ba | 1/2P | 1 1/8 | 3 3/4 | 3 3/4 | 3 3/4 | 3 3/4

5'-2 3/4 | 5'-0 | 13 @ 4'-4 | 4 | 4 | 1 3/8 | 1 3/8

1-BR 5 x 3/8 x 4'-11 ah | 1-BR ah | 1-WEB PL 60 1/2 x 3/8 x 51'-11 1/4 a | 1-BR 5 x 3/8 x 4'-11 {S-NS / 2-FS} | 1-BR ah | 1-BR ah | 1-BR {S-NS / 2-FS} | 1-BR ah | 4'-2 - 65% RT | 10" RT

1-BAR ah | 1-WEB PL 60 1/2 x 3/8 x 51'-11 1/2 b | 1-BR ah | 1-BR 5 x 3/8 x 4'-11 {AS-NS / 1 at FS} | 1-BR ah | 1-BR ah | 1-BR 5 3/4 x 1/2 x 5'-0 {S-NS / M-FS} (MHE)

1-ba ◁T | 1-PL 12 x 1 3/8 x 49'-7 3/8 w

2'-9 3/8 | 4 @ 4'-3 5/8 = 17'-2 1/2 | 4 @ 4'-3 5/8 = 17'-2 1/2 | 4'-3 9/16 | 5 @ 3'-7 = 17'-11 | 1-PL 12 x 1 3/4 x 12'-11 7/8 m | 3'-7 1/16 | 4 @ 3'-1 1/2 = 12'-6 | 3'-1 1/16 | 1-SOLE PL 402B (DETAILED ON SHT 402)

19'-11 3/8 | 21'-6 1/16 | 21'-6 1/16 | 15'-7 1/16 | 10'-11 13/16

49'-7 1/16 | 13'-0 | 28'-6

51'-11 5/16 | 51'-11 5/16 ℄ WEB SPL TO END @ BOTT.

78'-7 1/16 | 25'-2 15/16

103'-10 5/8 % BOTT. FLG.

+0 -1/16 | -1/8

9'-2 7/8 | 21'-6 1/16 | 21'-6 1/16 | 26'-4 1/16

1-PL 18 1/2 x 3/8 x 2'-10 3/4 af

1-ad | 1-ad

1'-0 1/2 | 1'-0 1/2 | 1'-0 1/2 | 1'-0 1/2

(℄ BR'G & MATCH LINE PIER 10)

1'-5

SEC. A-A
(TYP. INTERM. STIFFNER @ COMP.)

SEC. B-B

SEC. C-C

SEC. D-D
(TYP INTER STIFF @ TENSION)

SEC. F-F

GIRDER 433A

LINE "C"
PIER # 10 SPAN E10-E11

For location of details shown on this sheet refer to diagrams
E 402

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
} SEE SHEET 433 BB

NO	DATE	INIT	REVISION
0	4-5-71	PAB	

SUBMITTAL DATE

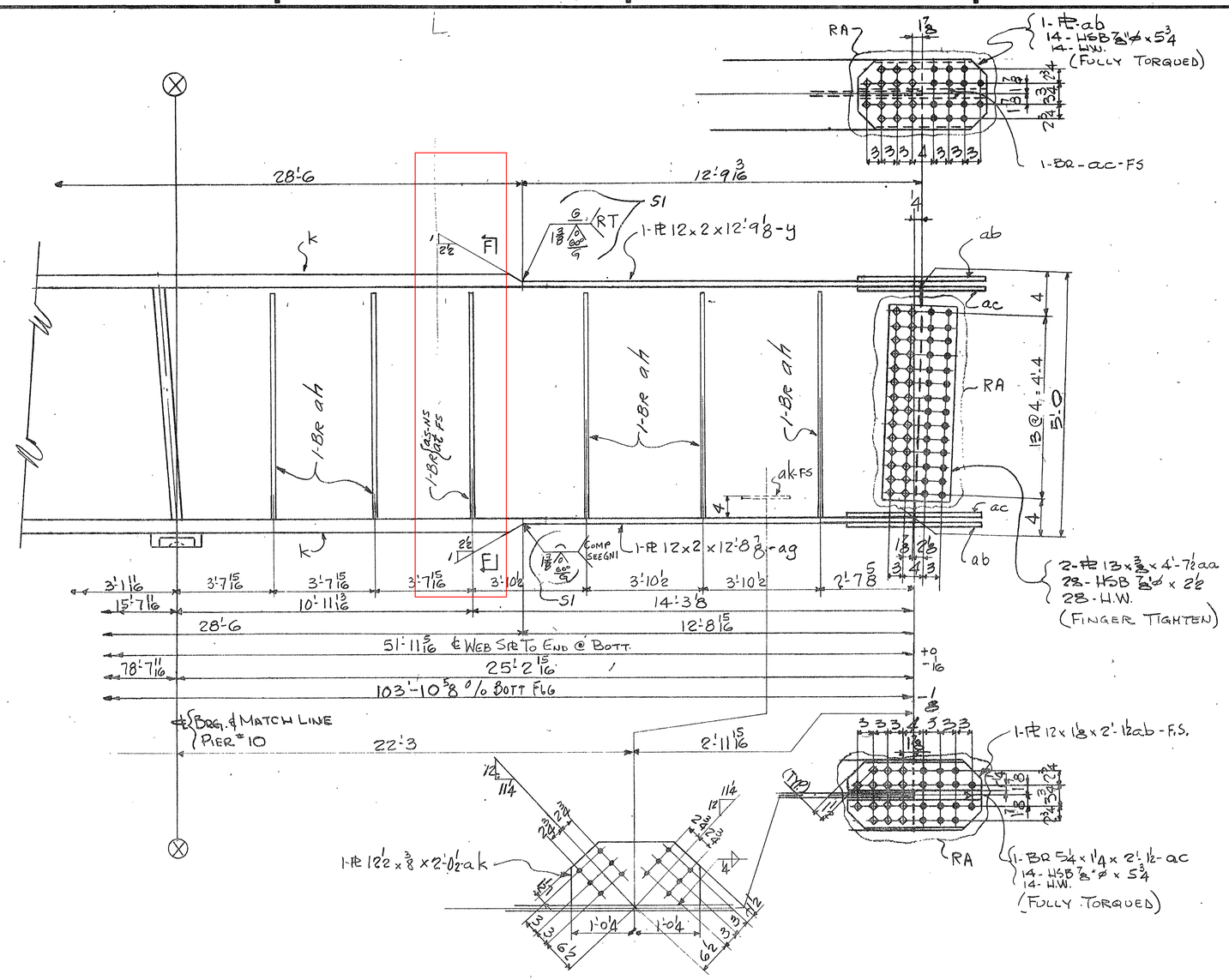
CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY SAE DATE 2-3-71 IN CHARGE F.J.K.
CHECKED BY DO DATE 2-23-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 433 BB

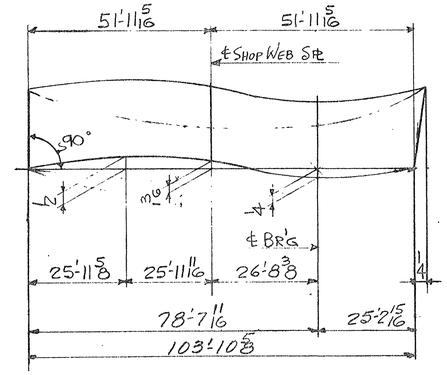
36603 (1-67)

M-48-41

MICROFILMED



GIRDER 433A



CAMBER DIAGRAM
(SHOP WEB SPL SHALL BE WELDED BEFORE CUTTING ℄)

SPAN E10-E11
PIER 10 - LINE C

INST.		REQUIRED LIST		
	S2	NO. DESCRIPTION	MARK	REMARKS
	1	1 GIRDER	433A	5'0"x2'-3"x105'-0"

FOR GEN NOTES SEE SHT GN1

1 1¾ x ¾" CLIP ALL STIFF. AS SHOWN

ELECTRODES - E70XX
LOW HYDROGEN

NOTE X
... sides of material adjacent ... open holes must be free ... burrs, loose scale, and paint ... for a distance of 3" from the ... edge of hole.

MATERIAL ASTM-A36
BOLTS ⅞"ø
OPEN HOLES 15/16 SEE GEN NOTES
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P
WELDING: AS NOTED
MILLING: AS NOTED
PAINT ... S

NO	DATE	INIT.	REVISION
1	4-5-71	Hab	

SUBMITTAL / DATE: 1 2 3 4 5 6 7 8 9 0

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAR DATE IN CHARGE F.S.V.
CHECKED BY [illegible] DATE 2-23-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 433-BB

For location of details shown on this sheet refer to diagrams
E402

36663 11-69

11-48-42

NO PAINT ON TOP OF TOP FLG FULL LENGTH

COMP | TENSION

10'-0⅛ | 33'-5⅜ | 10'-0 | 13'-0 | 28'-6

1-PL 12x1x10'-0⅛ c

1-PL 12x½x33'-5⅜ d

1-PL 12x⅞x10'-0 f

1-PL 12x1¾x12'-11 15/16 g

1-PL 12x3½x28'-5⅞ h

1-PL 12x½x1'-0½ ba

1-BR 5x⅜x4'-11 ah

1-WEB PL 60⅜x⅜x54'-10 4-a

1-BR 5x⅜x4'-11 {S-NS / 2-FS

1-BR ah

1-BR 5x⅝x4'-11 {GAS-NS / 2-FS

1-WEB PL 60⅜x⅜x54'-10 9/16-b

1-BR 5½x15/16x5'-0

5'-0 | 13@4'-4 = 4'-4 | 5'-0

4'-2-25% RT

10" RT

2'-9 9/16 | 4 @ 4'-3⅝ = 17'-2½ | 4 @ 4'-3⅝ = 17'-2½ | 4'-3 9/16 | 5 @ 3'-7 = 17'-11 | 3'-7 1/16 | 5 @ 3'-2 15/16 = 16'-2 11/16 | 3'-3 | 4½ | 4½

19'-11 15/16 | 21'-6 1/16 | 21'-6 1/16 | 19'-5 1/16

53'-5¾ | 13'-0 | 28'-6

54'-10⅝ | 54'-10⅜ & WEB STR TO END @ BOTT

82'-5¾ | 27'-2 15/16

109'-8 11/16 % BOTT. FLG.

BRGS & MATCH LINE (PIER 10)

1-SOLE PL 4'-0 2B DETAILED ON SHT 402

RA | DD | DD2

1-PL 18x⅜x2'-8¾ - ad | 1-ad | 1-PL 18¼x⅝x2'-9 - af

1'-4 3/16

GIRDER 434A

SEC. A-A (TYP INTERM STIFF @ COMP)

SEC. B-B

SEC. C-C

SEC. D-D

SEC. F-F

SEC. G-G (TYP. INTER. STIFF @ TENSION)

TIGHT FIT | MILL BEND | TIGHT IT | AS FOR D-D AT G FOR F-F

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
SEE SHEET 434BB

For location of details shown on this sheet refer to diagrams.
E 402

LINE B
PIER # 10 SPAN E10-11

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY S.P.K. DATE 2-5-71 IN CHARGE F.J.K.
CHECKED BY DATE 2-22-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO. 434 AB

REVISION: NO | DATE | INIT — 1 7-23 FJ 4-6-71 PJG

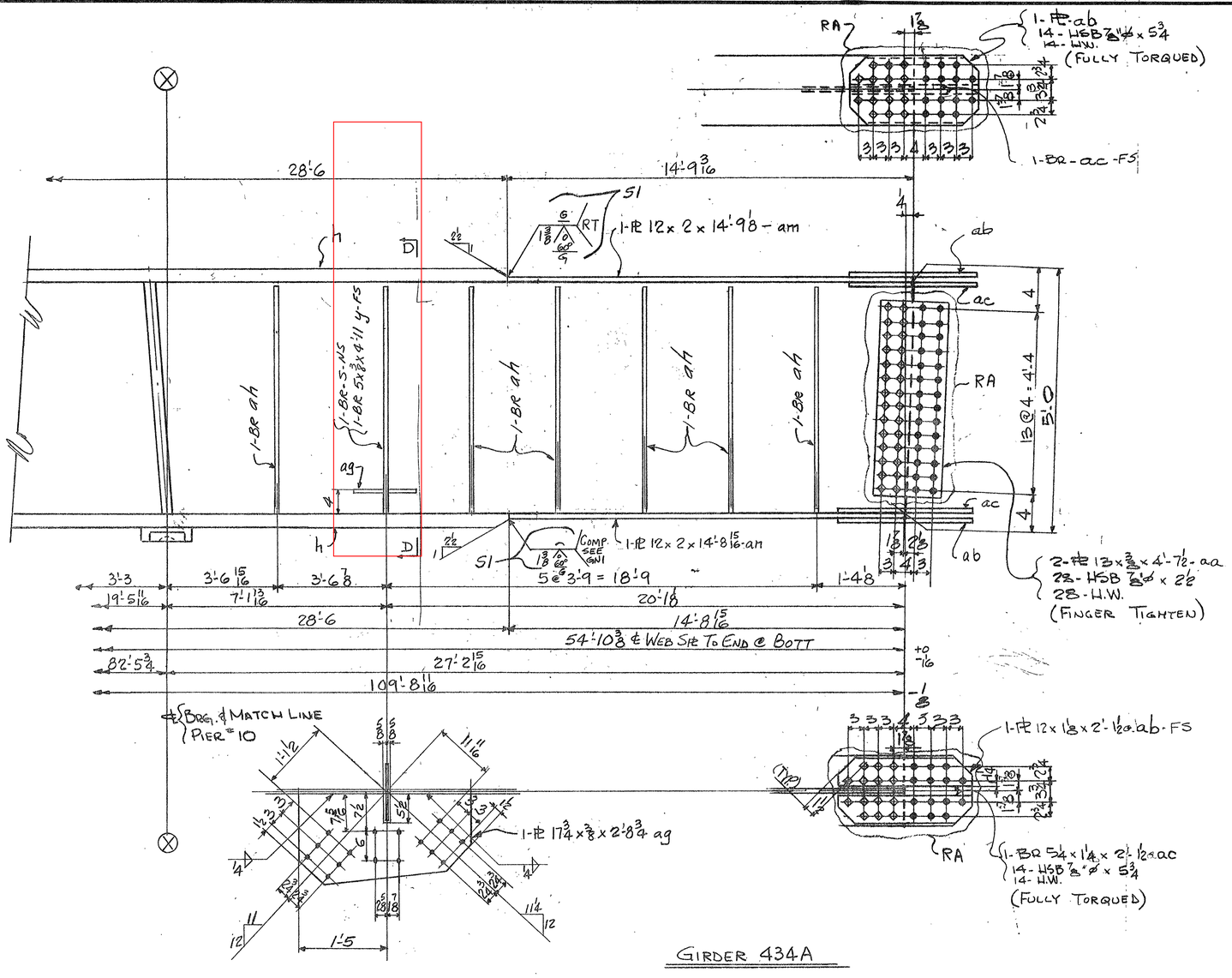
SUBMITTAL DATE

36653 (1-63)

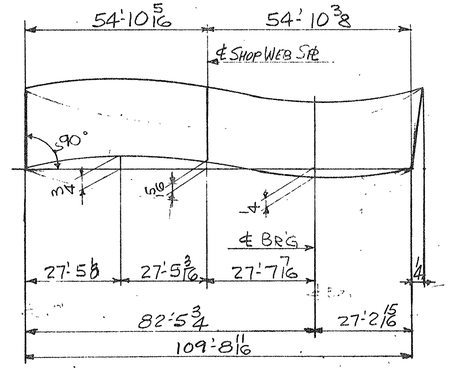
MICROFILMED

11-48-43

(10)



GIRDER 434A



CAMBER DIAGRAM
(SHOP WEB PL SPLICE SHALL BE WELDED BEFORE CUTTING PLATE)

SPAN E10-E11
PIER 10 - LINE B

FOR GEN. NOTES SEE SHT GN1

1 3/4 x 3/4" CLIP ALL STIFF. AS SHOWN

INST.	S2	NO.	DESCRIPTION	MARK	REMARKS
		1	1 GIRDER	434 A	S10x2 1/4x110'-9

REQUIRED LIST

MATERIAL ASTM-A36
BOLTS 7/8"ø
OPEN HOLES 15/16"ø SEE GEN NOTES
A325 FIELD BOLTS —
SHOP CONTACT SURFACES N.P
WELDING: AS NOTED
MILLING: AS NOTED
PAINT
1 Coat TT P 615d Type II
U.N. See Note X

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes

NO	DATE	INIT.
1	4-6-71	Hab

REVISION

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

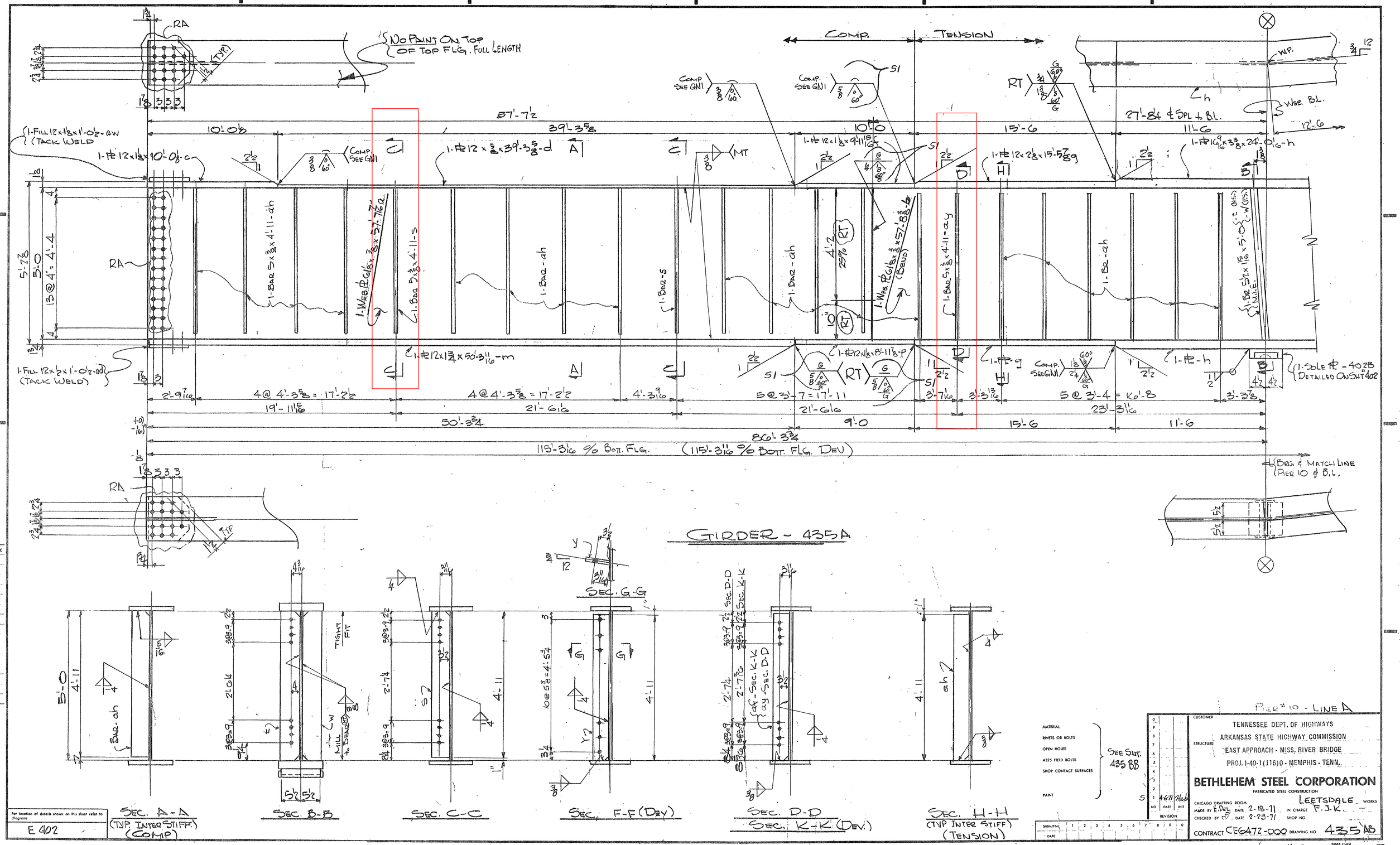
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE 2-5-71 IN CHARGE F.J.K.
CHECKED BY [illegible] DATE 2-24-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO. 434 BB

For location of details shown on this sheet refer to diagrams
E402

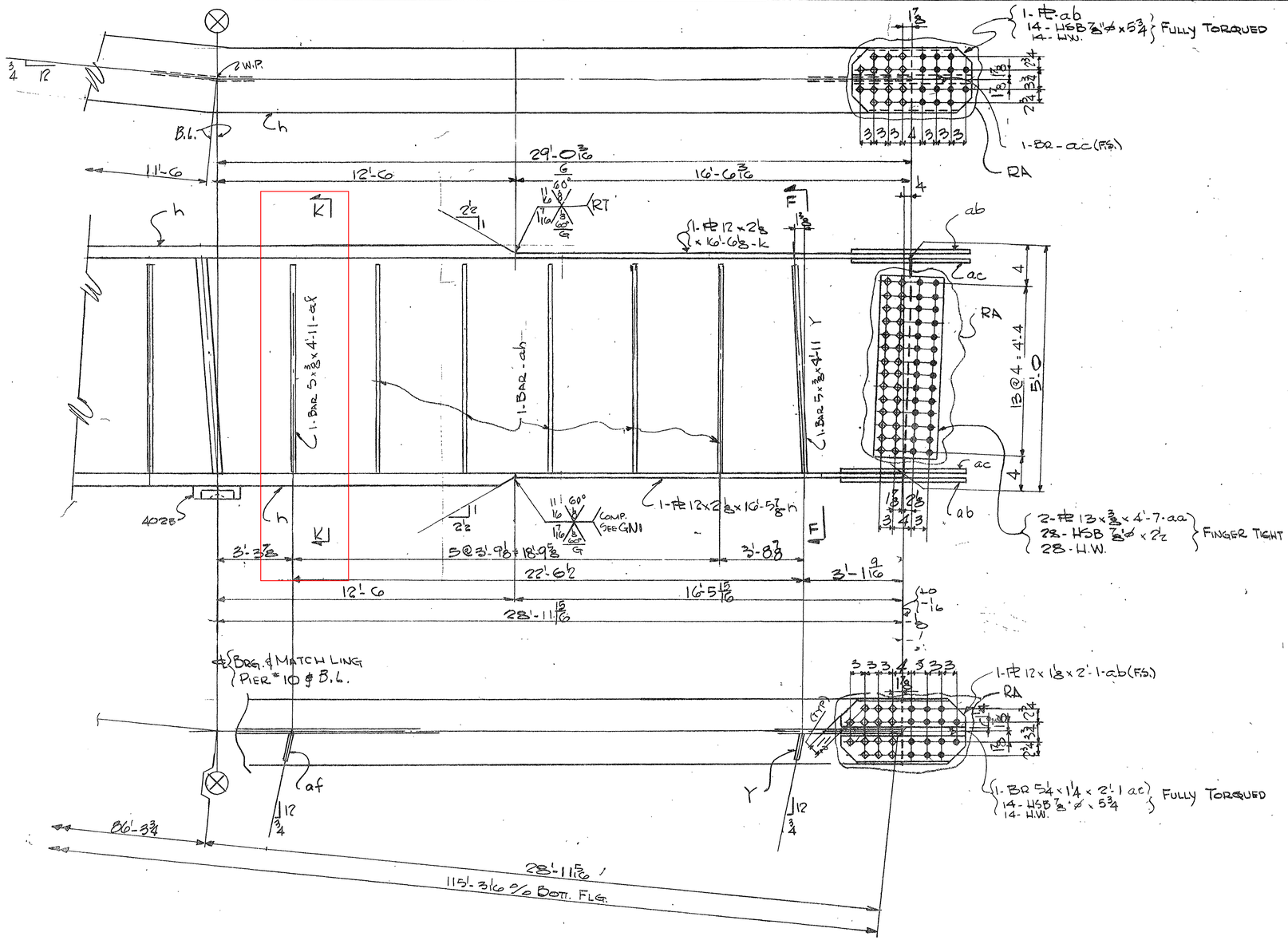
MICROFILMED

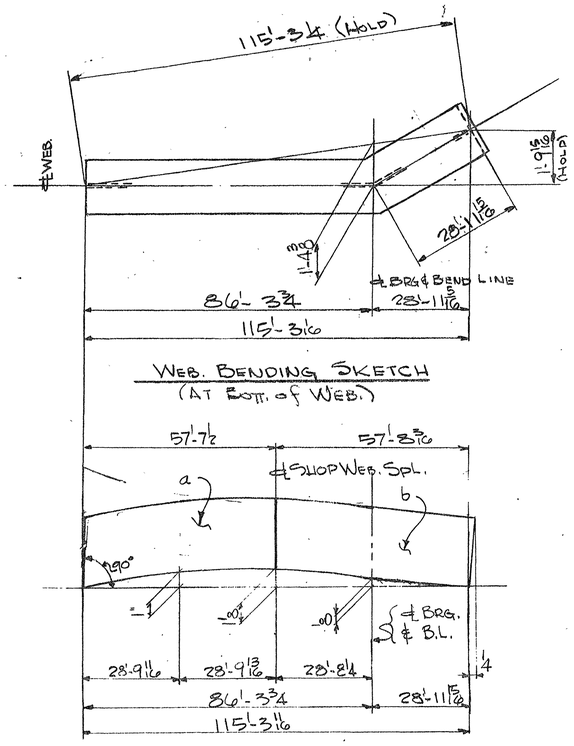
M-48-44

(11)



NO PAINT ON TOP OF TOP FLG. FULL LENGTH
COMP.
TENSION
57'-7½
10'-0⅛
39'-3⅝
10'-0
15'-6
11'-6
27'-8¼ & SPL to B.L.
12'-6
1-FILL 12x1⅛x1'-0½-aw (TACK WELD)
1-PL 12x1⅛x10'-0⅛-c
1-PL 12x⅝x39'-3⅝-d
1-PL 12x1⅛x9'-11 15/16
1-PL 12x2⅛x15'-5 7/8 g
1-PL 16 9/16x3⅜x24'-0 1/16-h
1-BAR 5x⅜x4'-11-ah
1-WEB PL 61⅛x⅜x57'-7 7/16 a
1-BAR 5x⅜x4'-11-s
1-BAR-ah
1-BAR-s
1-WEB PL 61⅛x⅜x57'-8⅜-b (BEND)
1-BAR 5x⅜x4'-11-ay
1-BAR-ah
1-BAR 5½x1 15/16x5'-0 (NS) (FS)
1-FILL 12x½x1'-0½-ad (TACK WELD)
1-PL 12x1¾x50'-3 11/16-m
1-PL 12x1⅛x8'-11⅞-p
1-PL-g
1-PL-h
1-SOLE PL-402B DETAILED ON SHT 402
4@4'-3⅝=17'-2½
4@4'-3⅝=17'-2½
5@3'-7=17'-11
5@3'-4=16'-8
19'-11 15/16
21'-6 1/16
21'-6 1/16
23'-3 1/16
50'-3¾
9'-0
15'-6
11'-6
86'-3¾
115'-3 1/16 % BOTT. FLG.
(115'-3 11/16 % BOTT. FLG. DEV)
BRG & MATCH LINE PIER 10 & B.L.
GIRDER - 435A
SEC. G-G
SEC. A-A (TYP. INTER STIFF.) (COMP)
SEC. B-B
SEC. C-C
SEC. F-F (DEV)
SEC. D-D
SEC. K-K (DEV.)
SEC. H-H (TYP INTER STIFF) (TENSION)
PIER #10 - LINE A
MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
SEE SHT. 435 BB
CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM
LEETSDALE WORKS
MADE BY E. DEL DATE 2-18-71 IN CHARGE F.J.K.
CHECKED BY DATE 2-23-71 SHOP NO
CONTRACT CE6472-000 DRAWING NO 435 AB
For location of details shown on this sheet refer to diagrams
E 402
M-48-45





ELECTRODES - E70XX
LOW HYDROGEN

CAMBER DIAGRAM (SHOWN DEV.)

(SHOP WEB SPL. SHALL BE WELDED BEFORE CUTTING ℄)

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

FOR GEN. NOTES SEE SHT. GN1

NOTE. 3/4" CLIP ALL STIFF. AS SHOWN

SPAN 10 - 11 - PIER 10 - LINE A

INST.	S	NO.	DESCRIPTION	MARK	REMARKS
		1	1 GIRDER	435A	5'-3 x 1'-3 x 116'-6
			REQUIRED LIST		

MATERIAL ASTM. A36
RIVETS OR BOLTS 7/8"ø
OPEN HOLES 15/16"ø SEE GEN NOTES
A325 FIELD BOLTS —
SHOP CONTACT SURFACES N.P
WELDING: AS NOTED
MILLING
PAINT
1 Coat JT-P 615d Type II
U.N. : See Note "X"

NO	DATE	INIT	REVISION
0			
9			
8			
7			
6			
5			
4			
3			
2			
1			

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY E.DEL DATE 2-19-71 IN CHARGE P.J.K.
CHECKED BY DATE 2-23-71 SHOP NO.
CONTRACT CEG477-000 DRAWING NO 435 BB

For location of details shown on this sheet refer to diagrams.
E407

36663 (1-65)

MICROFILMED

11-48-46

NO PAINT TOP OF TOP FLG

1-PL 12 x 2'8 x 15'6 b

1-PL 12 x 3'8 x 22'6-C

1-PL 12 x 2'8 x 14'-11'8 d

1-PL ab
14-HSB 7/8"ϕ x 5 3/4
14-HW (FULLY TORQUED)

1-BR ac-FS

15'-6 1/16 | 22'-6 1/8 | 14'-11 15/16

RA

1-BR 5 x 3/8 x 4'-11 ah

1-BR 5 x 3/8 x 4'-11 t

1-BR ah

1-WEB PL 60 1/16 x 3/8 x 53'-0 aa

1-BR 5 1/2 x 1/16 x 5'-0 1/2 (MIE)

1-BR 5 x 3/8 x 4'-11 s

1-BR 5 x 3/8 x 4'-11 k

5'-4 1/4 | 5'-0 | 13@4 = 4'-4

1-PL b | 1-PL c | 1-PL 12 x 2'8 x 14'-11 7/8 f

COMP SEE GN1

1-PL 13 x 3/8 x 4'-7 1/2 aa
28-HSB 7/8"ϕ x 2 1/2
28-HW (FINGER TIGHTEN)

1'-2 3/4 | 1'-2 3/4 | 3'-6 1/4 | 5@3'-6 = 17'-6 | 3'-6 1/4 | 2'-2 1/2 | 3'-2 1/16 | 5@3'-2 3/4 = 16'-1 3/4 | 3'-2 1/16 | 1'-2 13/16

2'-5 1/2 | 26'-9 | 22'-6 1/8

15'-6 1/16 | 27'-0 | 22'-6 1/8 | 14'-11 3/4 | 25'-11 5/16

52'-11 5/16 9/0 BOTT FLG.

℄ PIER E11.

1-BR 5 1/4 x 1'4 x 2'-1/2 ac

1-PL 12 x 1'8 x 2'-1/2 ab
14-HSB 7/8"ϕ x 5 3/4
14-HW (FULLY TORQUED)

SPAN E12
LINE A

GIRDER 410A

SEC. A-A
(TYP FOR INTERMEDIATE STIFFS)

SEC. B-B

SEC. D-D
SEC. C-C
SEC. F-F

CAMBER DIAGRAM

BOTT OF WEB PL
26'-6 | 26'-5 15/16
52'-11 15/16

For location of details shown on this sheet refer to diagrams
E 402

FOR GENERAL NOTES SEE GN1

NOTE X

1. 3" x 3/4" CLIP ALL STIFF. AS SHOWN

MATERIAL ASTM-A36
RIVETS OR BOLTS 7/8"ϕ
OPEN HOLES 15/16"ϕ
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING: As Noted
MILL: As NOTED
PAINT
1 Coat ZI P Galv
U.N. ℄ See Note X

1	1	GIRDER	410A	5'-1 1/4 x 54'-4
SI	NO.	DESCRIPTION	MARK	REMARKS
INST.	REQUIRED LIST			

CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
LEETSDALE WORKS

CHICAGO DRAFTING ROOM
MADE BY SAK DATE 1-18-71 IN CHARGE F.J.K
CHECKED BY Hab DATE 2-16-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO. 410

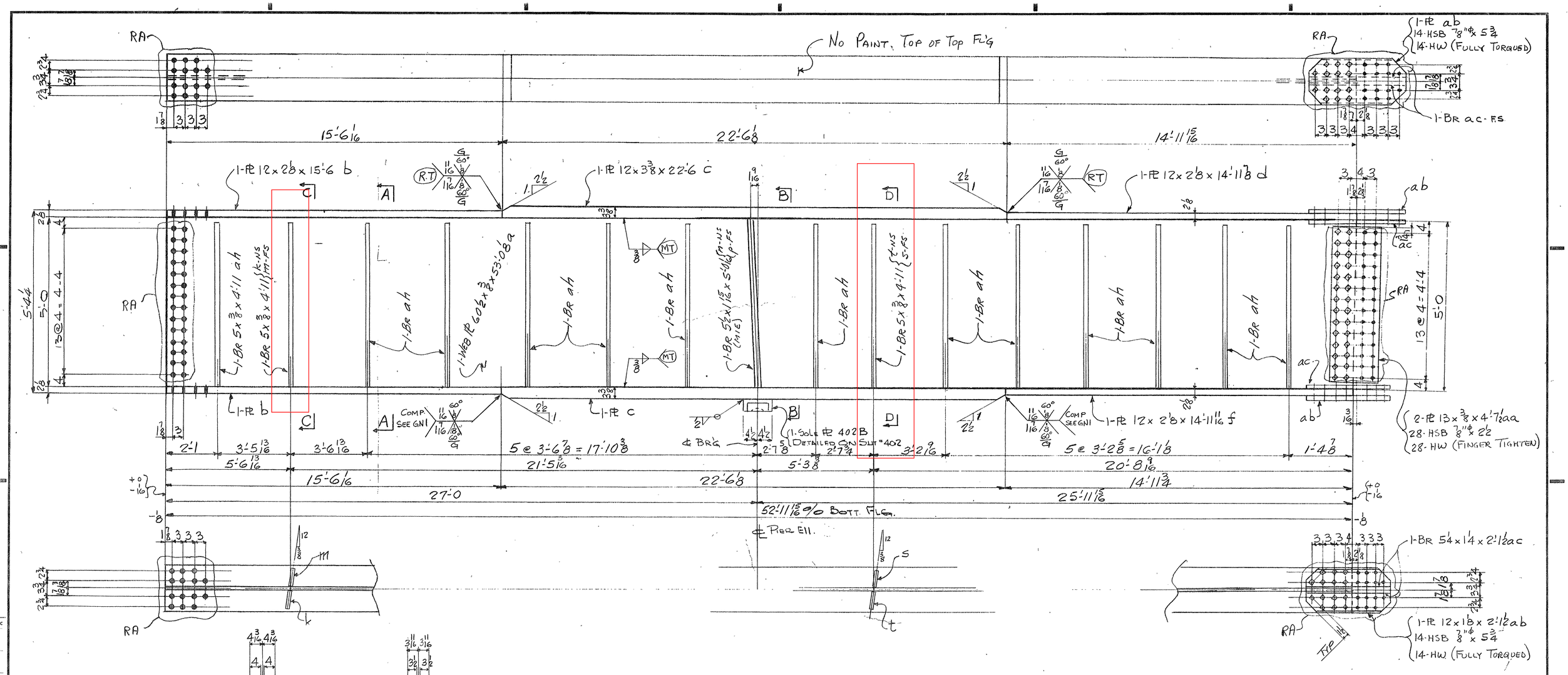
NO	DATE	INIT	REVISION
D	3/15	K	

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

MASTER

MICROFILMED

11-48-15 (13)



1	1	Girder	411 A	5'-11 x 1'-0 x 54'-1
S1	NO.	DESCRIPTION	MARK	REMARKS
INST.	REQUIRED LIST			

NOTE X

3/4 x 3/4" Clip All Stiff As Shown

MATERIAL ASTM-A36
BOLTS 7/8"φ
OPEN HOLES 15/16"
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING As Noted
MILLING As Noted
PAINT

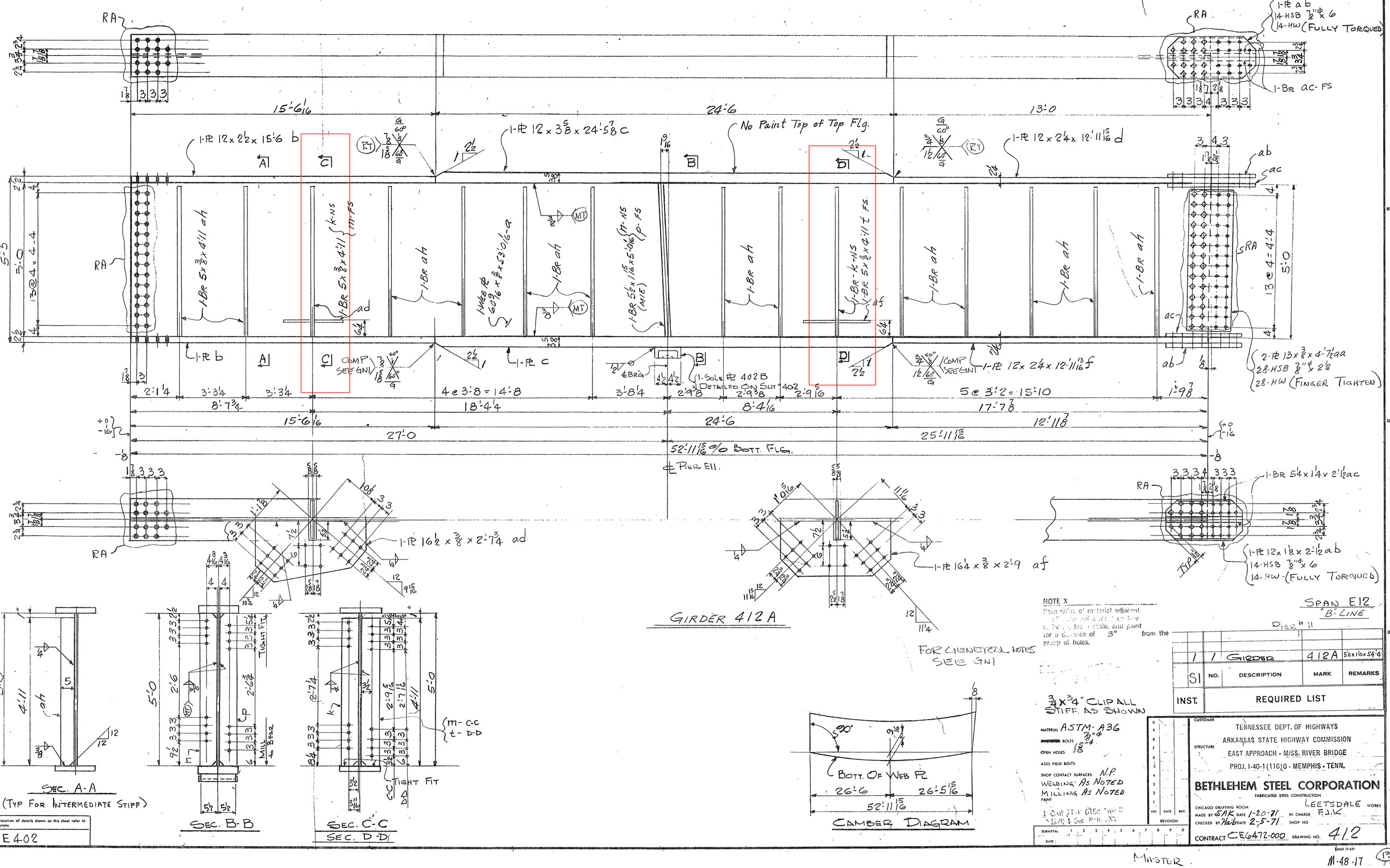
CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1 (116) 0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE 1-19-71 IN CHARGE F.J.K.
CHECKED BY Hab DATE 2-17-71 SHOP NO
CONTRACT CE6472-000 DRAWING NO 411

For location of details shown on this sheet refer to diagrams.
E 402

MICROFILMED

M-48-16 (13)



NOTE X

Paint slope of material adjacent to [illegible] and paint for a distance of 3" from the edge of holes.

SPAN E12
'B' LINE
PIER # 11

	1	1 GIRDER	412A	5¼ x 10 x 54'-9
SI	NO.	DESCRIPTION	MARK	REMARKS
INST.	REQUIRED LIST			

¾ x ¾" CLIP ALL STIFF. AS SHOWN

MATERIAL ASTM-A36
BOLTS ⅞" ø
OPEN HOLES 1⅛"
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING AS NOTED
MILLING AS NOTED
PAINT

1. Omit PL-P 6161 "Typ."
2. Add Mark "X"

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
LEETSDALE WORKS

CHICAGO DRAFTING ROOM
MADE BY SAK DATE 1-20-71 IN CHARGE F.J.K.
CHECKED BY Hall DATE 2-5-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 412

For location of details shown on this sheet refer to diagrams
E402

MICROFILMED

M-48-17

(13)

RA

15'-6 1/16 | 24'-6 | 13'-0 1/16

1-PL 12 x 2 1/2 x 15'-6 b

1-PL 12 x 3 5/8 x 24'-5 7/8 c

No Paint Top of Top Flg.

1-PL 12 x 2 1/4 x 13'-0 - d

1-PL ab
14-HSB 7/8"Φ x 6
14-HW (FULLY TORQUED)

1-BR ac-FS

1-BR 5 x 3/8 x 4'-11 ah

1-BR ah

1-BAR 5 x 3/8 x 4'-11 { k-NS m-FS

1-WEB PL 602 x 3/8 x 5'-3 1/8 q

1-BAR ah

1-BR ah

1-BR 52 x 1/2 x 5'-0 1/2 { n-NS p-FS (MTE)

1-BR ah

1-BR ah

1-BR { k-NS m-FS

1-BR ah

1-BR ah

ad-FS

ae-FS

af-FS

ag-FS

ab

ac

1-PL b

1-PL c

1-PL 12 x 2 1/4 x 12'-11 13/16 f

COMP SEE GNI

E BRG.

(1-SOLE PL 402 B DETAILED ON SHT "402")

1-3 | 3'-8 3/4 | 3'-9 | 3'-9 | 3'-7 1/2 | 3'-7 1/2 | 3'-7 3/4 | 3'-0 1/16 | 3'-0 1/2 | 3'-0 1/2 | 3'-0 1/2 | 4 @ 3'-1 3/4 = 12'-7 | 2'-6 13/16 | 1'-2 7/8

12'-5 3/4 | 14'-6 1/4 | 12'-2 1/16 | 13'-9 7/8

15'-6 1/16 | 24'-6 | 12'-11 7/8

27'-0 | 25'-11 15/16

52'-11 15/16 ø/o BOTT FLG.

℄ PIER E11.

25'-3 1/4 | 23'-5 3/8

1-PL 12 3/4 x 7/8 x 2'-0 3/4 ad

1-PL 16 1/2 x 3/8 x 2'-11 1/4 af

1-PL 12 1/2 x 3/8 x 2'-0 1/4 ag

1-BR 5 1/4 x 1 1/4 x 2'-1 1/2 ac

1-PL 12 x 1 1/8 x 2'-1 1/2 ab
14-HSB 7/8"Φ, 6
14 HW (FULLY TORQUED)

SPAN E12
LINE "C"

GIRDER 413A

SEC. A-A
(TYP FOR INTERMEDIATE STIFF)

SEC. B-B

SEC. C-C

TIGHT FIT

MILL TO BEAR

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

CAMBER DIAGRAM

BOTT. OF WEB PL.

26'-6 | 26'-5 15/16

52'-11 15/16

FOR GENERAL NOTES SEE SHT NI

ELECTRODES - E70XX
LOW HYDROGEN

3/4" x 3/4" CLIP ALL STIFF. AS SHOWN

MATERIAL ASTM-A36
BOLTS 7/8"Φ
OPEN HOLES 15/16"Ø
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING: AS NOTED
MILLING: AS NOTED
PAINT
1 Coat IT-P 61[illegible] Type II
N.N. & See Note 3K.

1	7	GIRDER	413A	51"x2 1/2"x 54'-0"
SI	NO.	DESCRIPTION	MARK	REMARKS
INST.		REQUIRED LIST		

PIER # 11

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE 1-21-71 IN CHARGE EJK
CHECKED BY Hab DATE 2-1-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 413

REVISION NO. | DATE | INIT

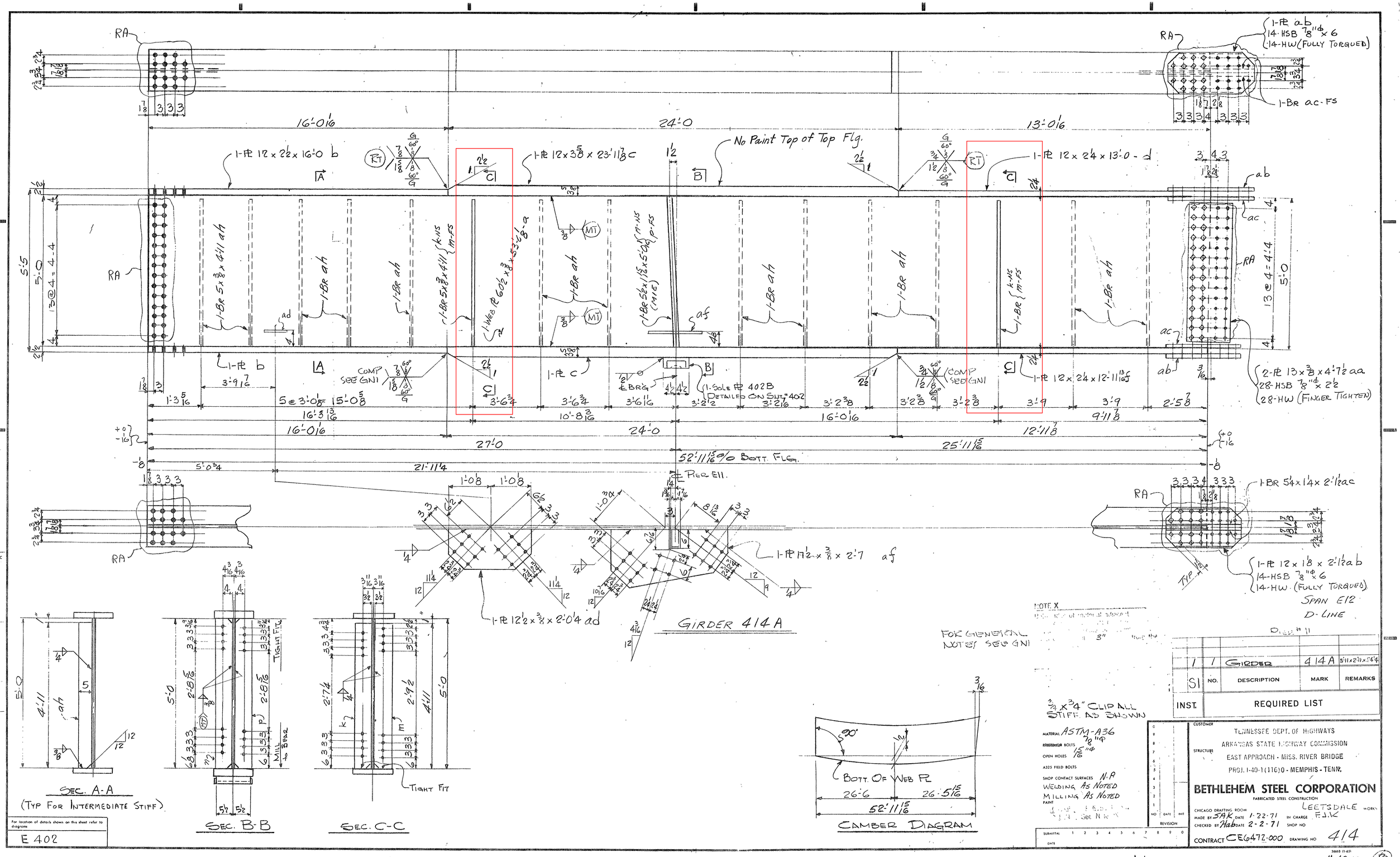
SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

For location of details shown on this sheet refer to diagrams
E 402

MICROFILMED

MASTER

11-48-18



RA
1-PL ab
14-HSB 7/8"φ x 6
14-HW (FULLY TORQUED)
1-BR ac-FS
16'-0 1/16
24'-0
13'-0 1/16
1-PL 12 x 2 1/2 x 16'-0 b
1-PL 12 x 3 5/8 x 23'-11 7/8 c
No Paint Top of Top Flg.
1-PL 12 x 2 1/4 x 13'-0 - d
1-BR 5 x 3/8 x 4'-11 ah
1-BR ah
1-WEB PL 60 1/2 x 3/8 x 53'-6 1/8 a
1-BR 5 1/2 x 1 15/16 x 5'-0 1/16 (M1E)
1-BR {k-NS m-FS
1-PL b
1-PL c
1-PL 12 x 2 1/4 x 12'-11 13/16 f
2-PL 13 x 3/8 x 4'-7 1/2 aa
28-HSB 7/8"φ x 2 1/2
28-HW (FINGER TIGHTEN)
COMP SEE GN1
1-SOLE PL 402B DETAILED ON SHT. 402
5 @ 3'-0 1/8 = 15'-0 5/8
16'-3 13/16
10'-8 3/16
16'-0 1/16
9'-11 7/8
12'-11 7/8
27'-0
25'-11 15/16
52'-11 15/16 o/o BOTT. FLG.
21'-11 1/4
PIER E11
1-BR 5 1/4 x 1 1/4 x 2'-1 1/2 ac
1-PL 12 x 1 1/8 x 2'-1 1/2 ab
14-HSB 7/8"φ x 6
14-HW (FULLY TORQUED)
SPAN E12
D-LINE
1-PL 12 1/2 x 3/8 x 2'-0 1/4 ad
1-PL 17 1/2 x 3/8 x 2'-7 af
GIRDER 414 A
SEC. A-A
(TYP FOR INTERMEDIATE STIFF)
SEC. B-B
SEC. C-C
TIGHT FIT
MILL TO BEAR
CAMBER DIAGRAM
BOTT. OF WEB PL
26'-6
26'-5 15/16
52'-11 15/16
FOR GENERAL NOTES SEE GN1
NOTE X
3/4 x 3/4" CLIP ALL STIFF AS SHOWN
MATERIAL ASTM-A36
BOLTS 7/8"φ
OPEN HOLES 15/16"φ
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING AS NOTED
MILLING AS NOTED
PAINT
SEE NOTE X
SUBMITTAL
DATE
REVISION
NO. DATE INIT
1 1 GIRDER 414 A 5'-11 x 2'-11 x 54'-4
S1 NO. DESCRIPTION MARK REMARKS
INST. REQUIRED LIST
CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
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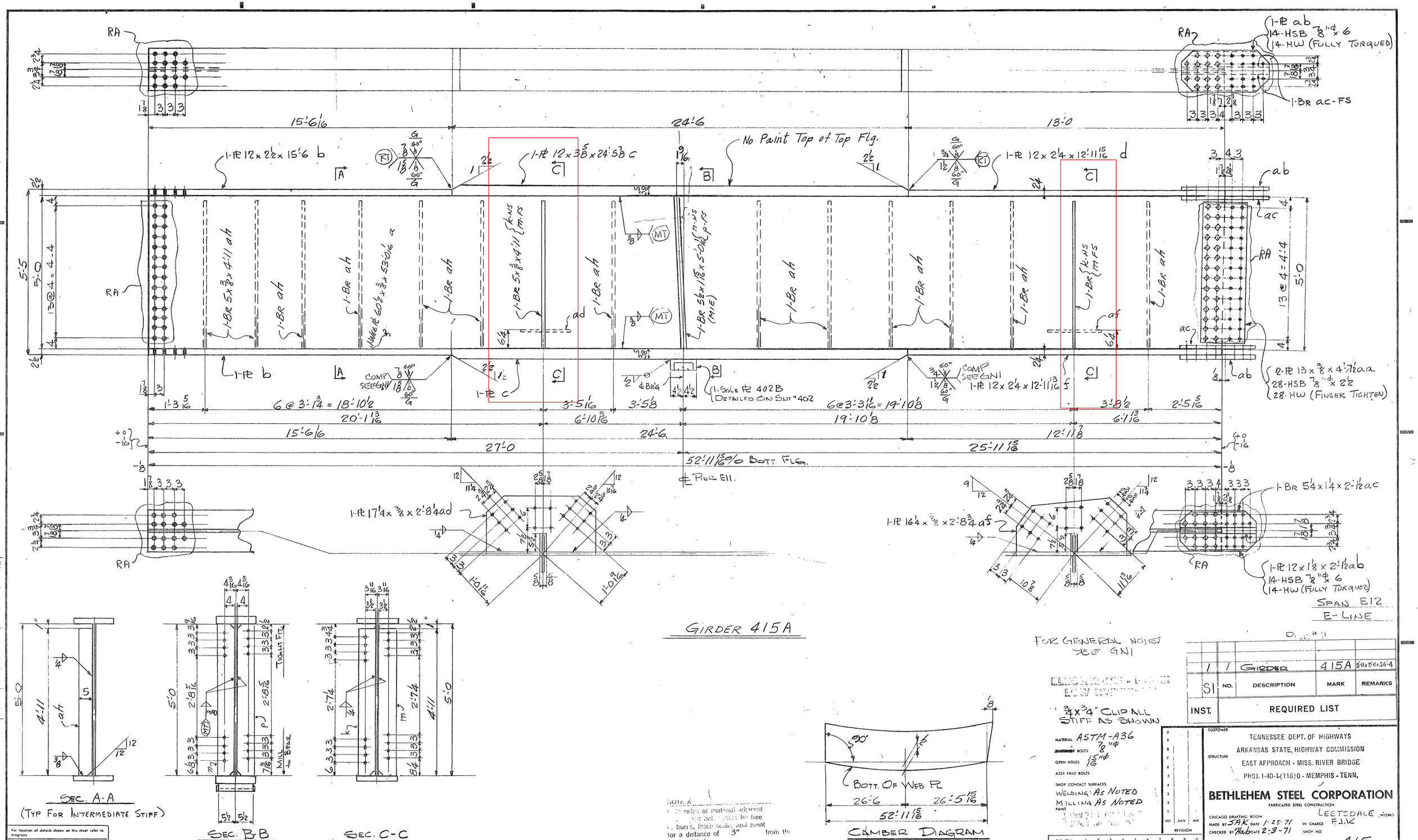
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM
MADE BY SAK DATE 1-22-71
CHECKED BY Hab DATE 2-2-71
IN CHARGE F.J.K
SHOP NO
LEETSDALE WORKS
CONTRACT CE6472-000
DRAWING NO 414
For location of details shown on this sheet refer to diagrams
E 402
MICROFILMED
MASTER
M-48-19



FOR GENERAL NOTES SEE GN1

3/4 x 3/4" CLIP ALL STIFF AS SHOWN

MATERIAL ASTM-A36
BOLTS 7/8"φ
OPEN HOLES 15/16"φ
A325 FIELD BOLTS
SHOP CONTACT SURFACES
WELDING: AS NOTED
MILLING AS NOTED
PAINT

INST.	REQUIRED LIST			
1	1	GIRDER	415A	5'-11 x 2'-11 x 54'-4
SI	NO.	DESCRIPTION	MARK	REMARKS

CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY SAK DATE 1-25-71 — IN CHARGE F.J.K
CHECKED BY Hab DATE 2-3-71 — SHOP NO
CONTRACT CE6472-000 — DRAWING NO. 415

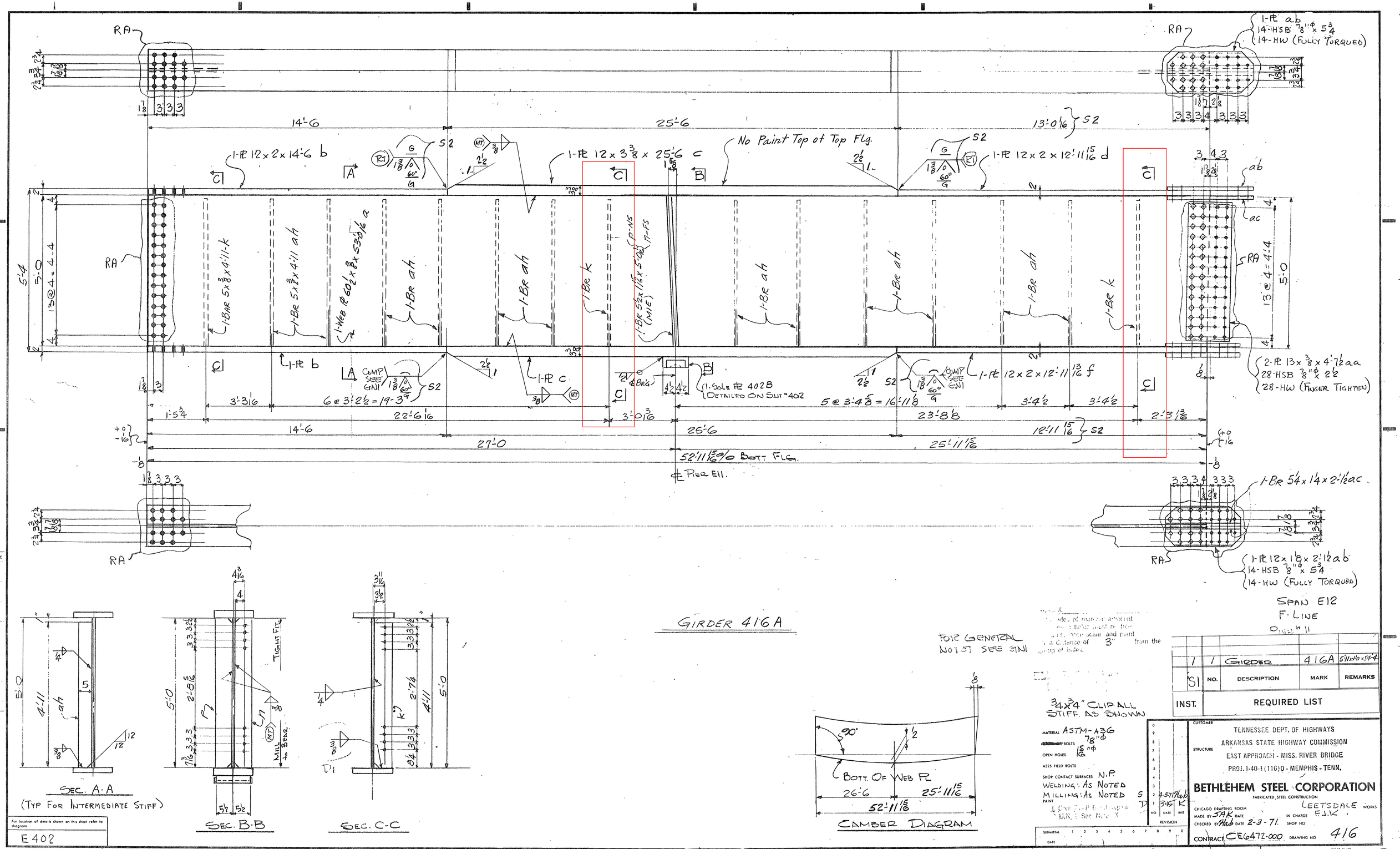
For location of details shown on this sheet refer to diagrams
E 402

NOTE X
[illegible] sides of material adjacent [illegible] open holes must be free [illegible] burrs, loose scale, and paint for a distance of 3" from the group of holes.

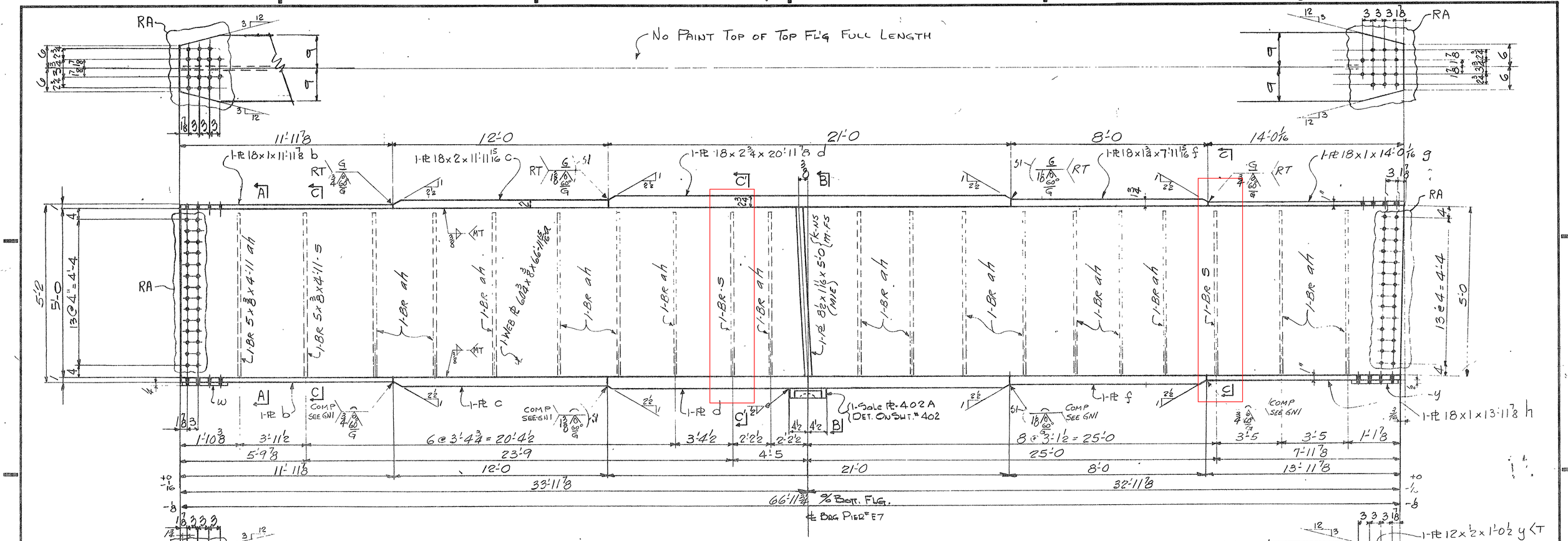
MASTER

M-48-20 (13)

MICROFILMED



RA
1-PL ab
14-HSB 7/8"φ x 5 3/4
14-HW (FULLY TORQUED)
14'-6
25'-6
13'-0 1/16 S2
No Paint Top of Top Flg.
1-PL 12 x 2 x 14'-6 b
1-PL 12 x 3 3/8 x 25'-6 c
1-PL 12 x 2 x 12'-11 15/16 d
1-BAR 5 x 3/8 x 4'-11 k
1-BR 5 x 3/8 x 4'-11 ah
1-WEB PL 60 1/2 x 3/8 x 53'-0 1/16 a
1-BR ah
1-BR k
1-BR 5 1/2 x 11 15/16 x 5'-0 1/16 (MIE)
P-NS
N-FS
1-PL b
1-PL c
COMP SEE GN1
1-SOLE PL 402B
DETAILED ON SHT #402
1-PL 12 x 2 x 12'-11 13/16 f
2-PL 13 x 3/8 x 4'-7 1/2 aa
28-HSB 7/8"φ x 2 1/2
28-HW (FINGER TIGHTEN)
13 @ 4 = 4'-4
5'-0
6 @ 3'-2 1/2 = 19'-3
5 @ 3'-4 5/8 = 16'-11 1/8
3'-3 1/16
22'-6 1/16
3'-0 3/16
23'-8 1/8
3'-4 1/2
2'-3 13/16
27'-0
25'-11 15/16
52'-11 15/16 o/o BOTT FLG.
℄ PIER E11.
1-BR 5 1/4 x 1 1/4 x 2'-1 1/2 ac
1-PL 12 x 1 1/8 x 2'-1 1/2 ab
14-HSB 7/8"φ x 5 3/4
14-HW (FULLY TORQUED)
SPAN E12
F-LINE
GIRDER 416A
SEC. A-A
(TYP FOR INTERMEDIATE STIFF)
SEC. B-B
SEC. C-C
TIGHT FIT
MILL to BEAR
BOTT. OF WEB PL
26'-6
25'-11 15/16
52'-11 15/16
CAMBER DIAGRAM
FOR GENERAL NOTES SEE GN1
3/4 x 3/4" CLIP ALL STIFF. AS SHOWN
MATERIAL ASTM-A36
BOLTS 7/8"φ
OPEN HOLES 15/16"φ
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING: AS NOTED
MILLING: AS NOTED
PAINT
SUBMITTAL
DATE
REVISION
NO. DATE INIT
1 1 GIRDER 416A 5'-11 x 1'-0 x 5'-4
SI NO. DESCRIPTION MARK REMARKS
INST. REQUIRED LIST
CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM
MADE BY SAK DATE
CHECKED BY Hab DATE 2-3-71
IN CHARGE F.J.K.
SHOP NO
CONTRACT CE6472-000
DRAWING NO 416
LEETSDALE WORKS
For location of details shown on this sheet refer to diagrams
E402
MICROFILMED
M-48-21
13



For location of details shown on this sheet refer to diagrams

E401

NOTE X

Both sides of material adjacent to all [illegible] be free of [illegible] and paint for a [illegible] 3" from the group of [illegible]

For Gen Notes See Sheet GN1.

ELECTRODES - E70XX
LOW HYDROGEN

3/4" x 3/4" "Clip All Stiff As Shown"

MATERIAL ASTM-A36
BOLTS 7/8"φ
OPEN HOLES 1 5/16"φ See Gen. Notes
A325 FIELD BOLTS —
SHOP CONTACT SURFACES N.P
WELDING: As Noted
MILLING: As Noted
PAINT
[illegible] 615a Type [illegible]
U.N.I. See Note "X"

SPAN E7	PIER #E7	LINE F	
1	1	GIRDER	466A 59x1-6x67-1
S5	NO.	DESCRIPTION	MARK	REMARKS
INST.	REQUIRED LIST		

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE 2-19-71 IN CHARGE F.J.K.
CHECKED BY [illegible] DATE 3-8-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 466

NO	DATE	INIT
S1	4-5	[illegible]

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

36663 (1-63)

M-48-93

MICROFILMED

NO PAINT TOP OF TOP FL'G FULL LENGTH

1-PL 18 x 2 3/8 x 11'-11 7/8 - c

1-PL 18 x 3 x 19'-11 7/8 - d

1-PL 18 x 24 x 9'-11 7/8 - f

1-PL 18 x 14 x 11'-11 13/16 - b

1-PL 18 x 14 x 13'-0 - g

1-PL 18 x 14 x 12'-11 13/16 - h

1-PL 12 x 4 x 1'-0 1/2 MT

1-PL 17 x 2 3/8 x 2'-9 - aa

1-PL 15 1/4 x mill x 2'-8 1/2 - ab

1-PL - MT

1-PL - b

1-PL - c

1-PL - d

1-PL - f

1-PL - h

1-PL - MT

1-PL - aa

1-PL - ab

1-BR 5 x 3/8 x 4'-11 - ah

1-BR 8 1/2 x 1 1/16 x 5'-0 (MILE)

1-WEB PL 60 1/8 x 3/8 x 66'-11 3/4

1-SOLE PL 402A DET. ON SHT. # 402

RA

MT

n

m

aa-FS

ab-FS

5-NS 2-FS

5-NS 4-FS

COMP SEE GN1

RT

3/8 BOTT. FLG.

℄ BRG PIER # E7

6@3'-4 3/4 = 20'-4 1/2

6@3'-0 1/4 = 18'-1 1/2

66'-11 3/4

33'-11 7/8

32'-11 7/8

20'-0

12'-0

10'-0

8'-3

23'-9

21'-2

11'-9 7/8

12'-11 7/8

13@4 = 4'-4

5'-0

SECT A-A
(TYP INTER STIFFNER)

SEC. B-B

SEC. C-C

CAMBER DIAGRAM

GIRDER 467A

FOR GEN NOTES SEE SHEET GN1

ELECTRODES - E70XX LOW HYDROGEN

3/4 x 3/4 "CLIP ALL STIFF AS SHOWN"

MATERIAL ASTM-A36

BOLTS 7/8 H.S.

OPEN HOLES 15/16 H.S. SEE GEN. NOTES

A325 FIELD BOLTS —

SHOP CONTACT SURFACES N.P

WELDING AS NOTED

MILLING AS NOTED

PAINT

(a) (P-P 615a Type II

(b) N.I. See Note "X"

NOTE X

Paint [illegible] adjacent to the face of the [illegible] with paint for a distance of 3" from the face of the [illegible]

For location of details shown on this sheet refer to diagrams

E401

SPAN E7	PIER # E7	LINE E		
1	1	GIRDER	467A	5'-9 x 2'-3 x 67'-0

SS	NO.	DESCRIPTION	MARK	REMARKS
INST		REQUIRED LIST		

NO	DATE	INIT
51	4-5	D

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE IN CHARGE F.J.K.
CHECKED BY DATE 3-8-71 SHOP NO.

CONTRACT C-6477-000 DRAWING NO. 467

M-48-94

MICROFILMED

No Paint Top of Top Flg. Full Length

1-PL 18x 2 3/8 x 11'-11 7/8 - c

1-PL 18x 38x 19'-11 7/8 - d

1-PL 18x 24x 9'-11 7/8 f

1-PL 18x 14x 11'-11 13/16 - b

1-PL 18x 14x 13'-0 - g

1-PL 18x 1 1/4 x 12'-11 13/16 - aa

11'-11 7/8 | 12'-0 | 20'-0 | 10'-0 | 13'-0 1/16

21'-10 7/8 | 12'-1 | 17'-4 | 15'-7 7/8

33'-11 7/8 | 20'-0 | 10'-0 | 12'-11 7/8

66'-11 3/4 | 32'-11 7/8

23'-11 1/2 | 29'-0 | 3'-2 7/8

6@3'-4 3/4 = 20'-4 1/2 | 4@3'-0 4 = 12'-1 | 4@2'-10 5/8 = 11'-6 1/2 | 4@3'-6 1/2 = 14'-2

13@4'-4 = 4'-4

5'-0 | 5'-2 1/2

1-BR 5x 3/8 x 4'-11 - ah

1-WEB PL 60 13/16 x 3/8 x 66'-11 15/16 - a

1-BR 5x 3/8 x 4'-11 (S-NS) (E-FS)

1-BR 8 1/2 x 1 1/16 x 5'-0 (K-NS) (M-FS) (TAPE)

1-PL 12x 4 x 1'-0 1/2 h-FS <T

1-PL 12 1/2 x 3/8 x 2'-1 1/2 y

1-PL 16 3/4 x 3/8 x 2'-9 1/2 - w

1-PL 13 3/8 x 2'-3 - p

1-PL h <T

1-PL h

1-PL - b

1-PL - c

1-PL - d

1-PL f

(1-Sole PL 402A DET. ON SHT. # 402)

COMP SEE GN1

RT

RA

SECT. A-A (TYP INTER STIFFNER)

SEC. B-B

SEC. C-C

CAMBER DIAGRAM

For Gen Notes See Sheet GN1

ELECTRODES - EXXX LOW HYDROGEN

3/4 x 3/4 "CLIP ALL STIFF AS SHOWN"

MATERIAL ASTM-A36

BOLTS 7/8"Φ

OPEN HOLES 1 1/16"Φ See Gen. Notes

A325 FIELD BOLTS —

SHOP CONTACT SURFACES N.P

WELDING - As Noted

MILLING - As Noted

PAINT 1 Coat TT P 615d Type II U.N. See Note "X"

NOTE X

Bottom edges of the top flange plates to all stiffeners and the top of the web shall be painted with a minimum of 3" from the edge of the flange.

SPAN E7 PIER # E7 LINE D

	1	GIRDER	468A	59x 2'-3 x 67'-0
$5	NO.	DESCRIPTION	MARK	REMARKS
INST.		REQUIRED LIST		

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS

ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE

PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS

MADE BY SAS DATE 2-24-71 IN CHARGE F.J.K.

CHECKED BY DATE 3-8-71 SHOP NO

CONTRACT CEGA71-000 DRAWING NO 468

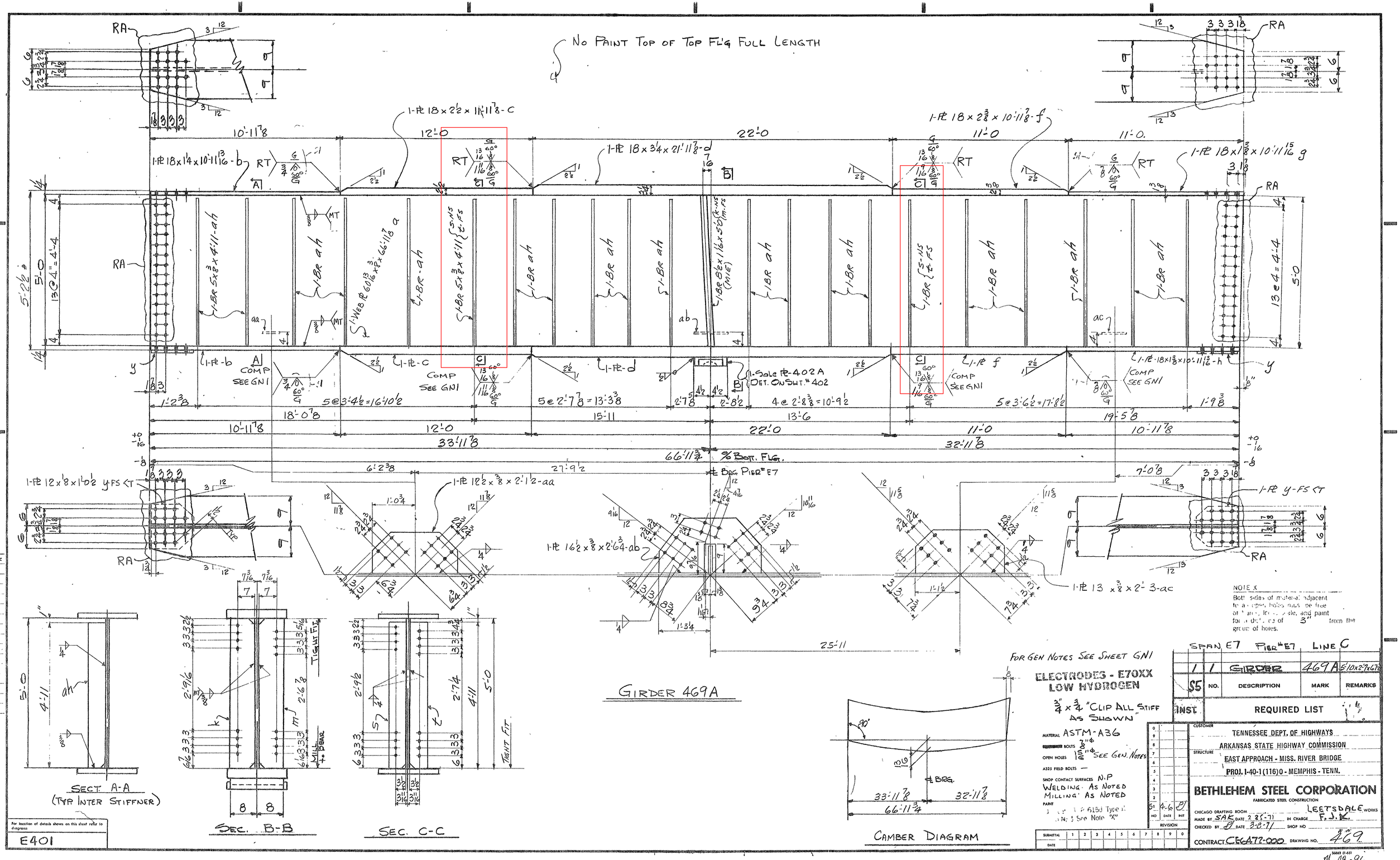
REVISION 51 4-16-71 NO DATE INIT

SUBMITTAL DATE 1 2 3 4 5 6 7 8 9 0

For location of details shown on this sheet refer to diagrams E401

MICROFILMED

11-18-75



NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

M-48-96

NO PAINT TOP OF TOP FLG FULL LENGTH

1-PL 18 x 2½ x 10'-11⅞ - c

1-PL 18 x 3⅜ x 22'-0 - d

1-PL 18 x 2⅜ x 10'-11⅞ - f

1-PL 18 x ⅜ x 11'-11⅜ - b

1-PL 18 x ⅜ x 10'-11 15/16 - g

1-PL 18 x ⅜ x 10'-11 15/16 - h

1-PL b

1-PL c

1-PL d

1-PL f

1-PL 17 x ⅜ x 2'-9½ y

1-PL 15½ x ⅜ x 2'-9 - aa

1-PL 12 x ⅜ x 1'-0½ W-FSKT

1-BOLE PL 402A (DET ON SHT. 402)

1-BR 5 x ⅜ x 4'-11 s-ns ± FS

1-WEB PL 60¾ x ⅜ x 66'-11⅞ - q

1-BR 82 x 1/16 x 50 s-ns m-FS

1-BR ah

COMP SEE GN1

RA

MT

TYP

4 @ 3'-3¼ = 13'-1

6 @ 2'-9⅞ = 16'-11¼

6 @ 3'-8 = 22'-0

13 @ 4 = 4'-4

14'-2⅞

19'-9

9'-8

23'-3⅞

11'-11⅞

11'-0

22'-0

33'-11⅞

66'-11¾

32'-11⅞

10'-11⅞

1'-1⅞

2'-9¾

3'-2½

3'-2¾

1'-3⅞

5'-0

5'-2¾

4'-11

4'-4

+0 -1/16

-⅛

⅞ BOTT. FLG.

℄ BRG PIER E7

1'-5

1'-0⅛

1'-5⅝

1'-0⅜

1'-5⅜

1'-0⅝

1'-5⅛

1'-0⅞

1'-5

1'-0

1'-5⅞

1'-1⅛

1'-5¾

1'-1⅜

1'-6⅝

1'-1⅝

1'-6½

1'-1⅞

1'-6⅜

1'-2⅛

1'-6¼

1'-2⅜

1'-6⅛

1'-2⅝

1'-6

1'-2⅞

1'-5⅞

1'-3⅛

1'-5¾

1'-3⅜

1'-5⅝

1'-3⅝

1'-5½

1'-3⅞

1'-5⅜

1'-4⅛

1'-5⅛

1'-4⅜

1'-5

1'-4⅝

1'-4⅞

1'-5

1'-4¾

1'-4⅝

1'-4½

1'-4⅜

1'-4⅛

1'-4

1'-3⅞

1'-3¾

1'-3⅝

1'-3½

1'-3⅜

1'-3⅛

1'-3

1'-2⅞

1'-2¾

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1'-2½

1'-2⅜

1'-2⅛

1'-2

1'-1⅞

1'-1¾

1'-1⅝

1'-1½

1'-1⅜

1'-1⅛

1'-1

1'-0⅞

1'-0¾

1'-0⅝

1'-0½

1'-0⅜

1'-0⅛

1'-0

0'-11⅞

0'-11¾

0'-11⅝

0'-11½

0'-11⅜

0'-11⅛

0'-11

0'-10⅞

0'-10¾

0'-10⅝

0'-10½

0'-10⅜

0'-10⅛

0'-10

0'-9⅞

0'-9¾

0'-9⅝

0'-9½

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0'-8¾

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0'-5

0'-4⅞

0'-4¾

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0'-3⅞

0'-3¾

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0'-2⅞

0'-2¾

0'-2⅝

0'-2½

0'-2⅜

0'-2⅛

0'-2

0'-1⅞

0'-1¾

0'-1⅝

0'-1½

0'-1⅜

0'-1⅛

0'-1

0'-0⅞

0'-0¾

0'-0⅝

0'-0½

0'-0⅜

0'-0⅛

0'-0

SECT A-A
(TYP INTER. STIFFNER)

SEC. B-B

SEC. C-C

GIRDER 470A

CAMBER DIAGRAM

FOR GEN NOTES SEE SHEET GN1

ELECTRODES - E70XX
LOW HYDROGEN

¾ x ¾ "CLIP ALL STIFF AS SHOWN"

MATERIAL ASTM-A36

BOLTS ⅞"ϕ

OPEN HOLES 15/16"ϕ SEE GEN. NOTES

A325 FIELD BOLTS —

SHOP CONTACT SURFACES N.P

WELDING AS NOTED

MILLING AS NOTED

PAINT

NOTE X
Both sides of material adjacent to all ... shall be free of ... scale, and paint for a distance of 3" from the ... of bolts

SPAN E7	PIER E7	LINE B	
1	1	GIRDER	470A 5'-10 x 2'-3 x 67'-0

$5	NO.	DESCRIPTION	MARK	REMARKS
INST.		REQUIRED LIST		

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY SAK DATE 2-26-71 IN CHARGE F.J.K.
CHECKED BY DJ DATE 3-8-71 SHOP NO.
CONTRACT CEGA72-000 DRAWING NO. 470

NO	DATE	INIT	REVISION
S1	4-6	DJ	

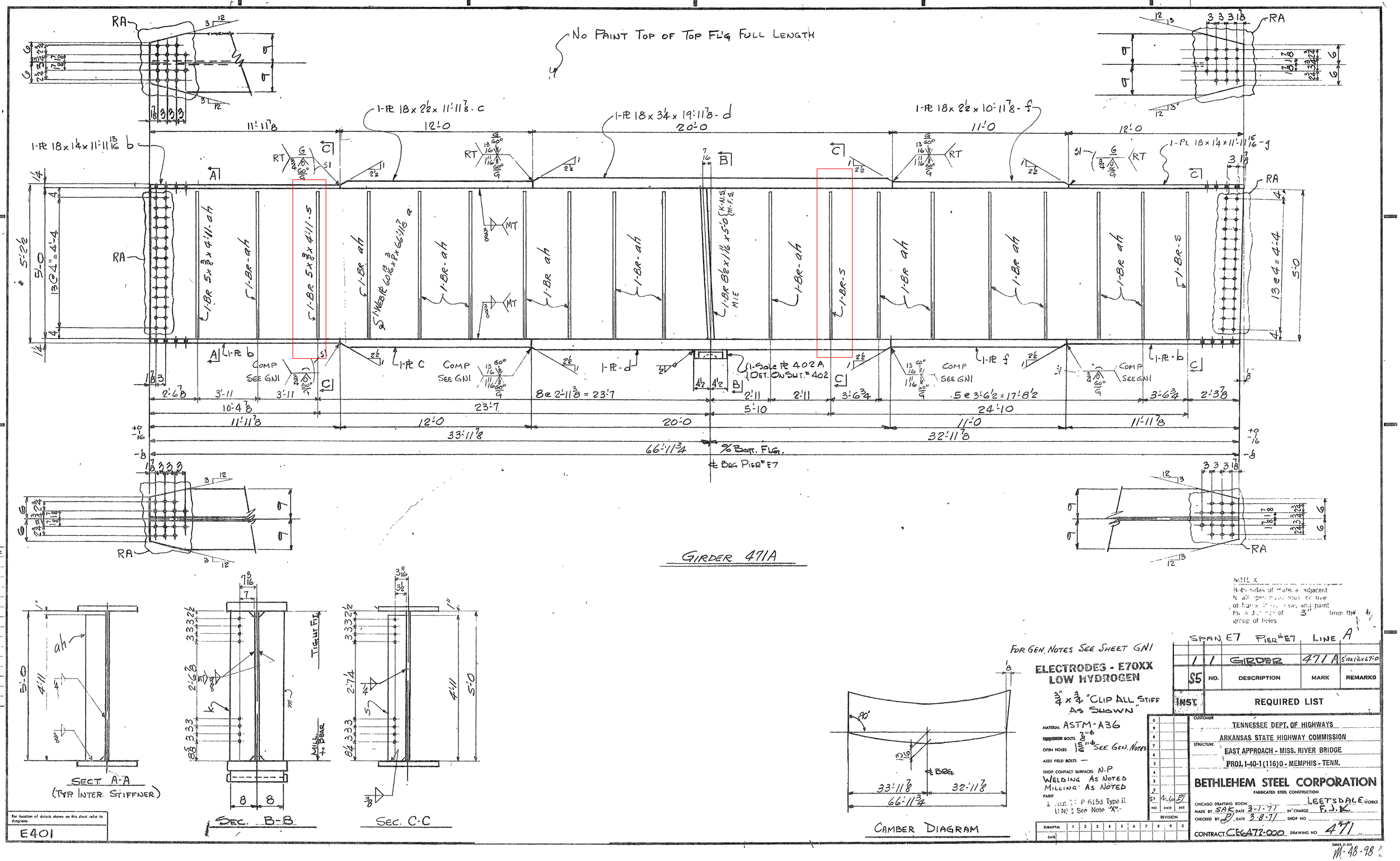
SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

For location of details shown on this sheet refer to diagrams

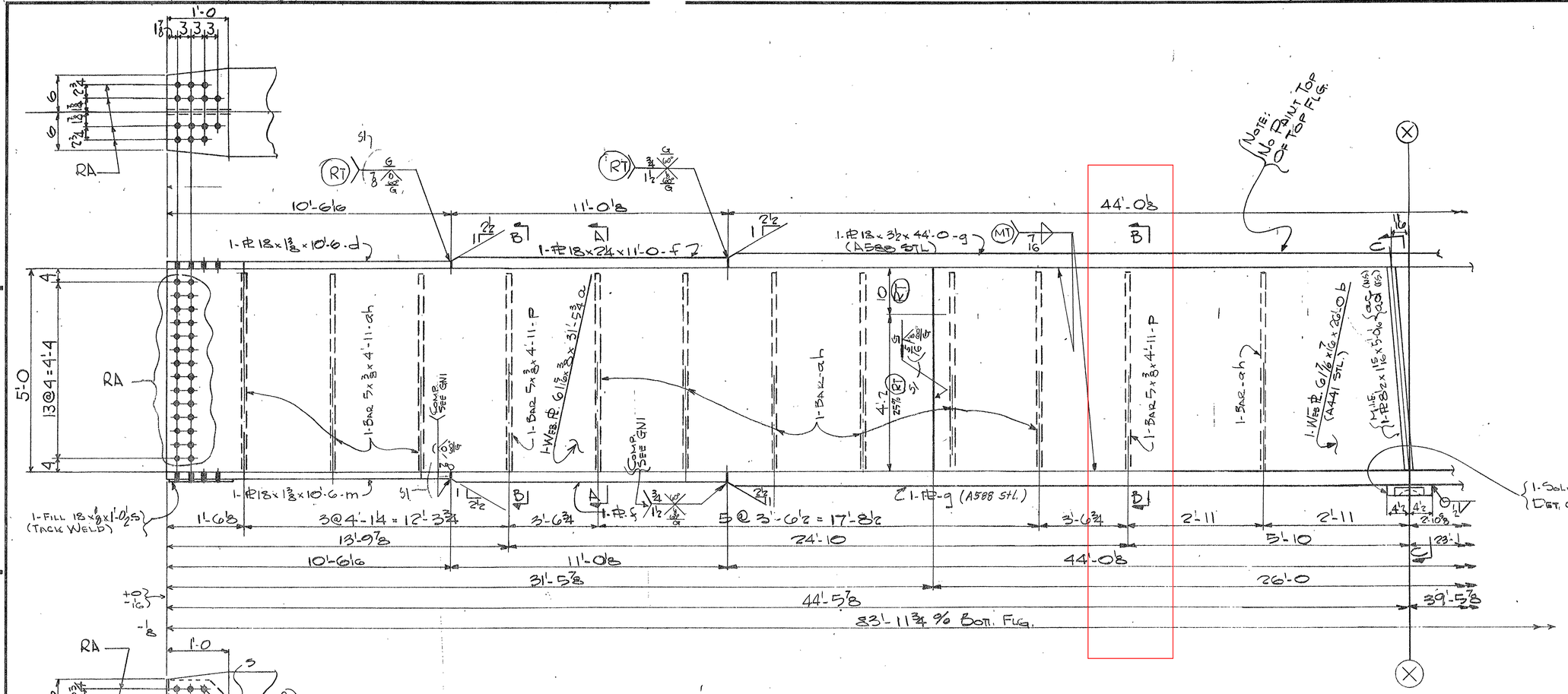
E401

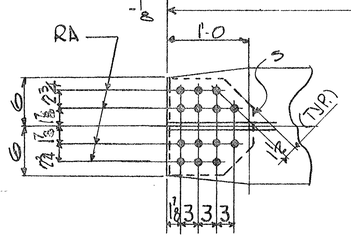
MARKED

11-48-71

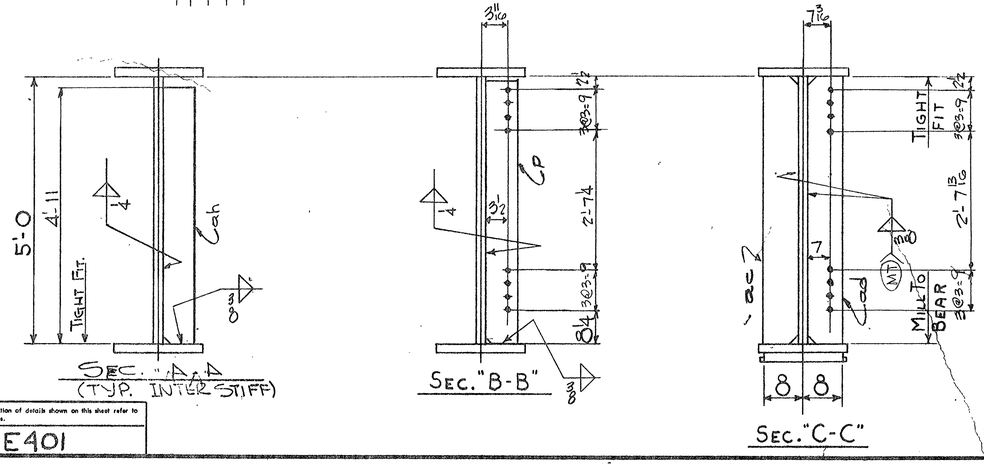


No Paint Top of Top Fl'g Full Length
1-PL 18 x 2½ x 11'-11⅞ - c
1-PL 18 x 3¼ x 19'-11⅞ - d
1-PL 18 x 2½ x 10'-11⅞ - f
1-PL 18 x 1¼ x 11'-11 13/16 b
1-PL 18 x 1¼ x 11'-11 15/16 - g
1-BR 5 x ⅜ x 4'-11 - ah
1-BR - ah
1-BR 5 x ⅜ x 4'-11 - s
1-BR ah
1-BR - ah
1-BR 8½ x 1 1/16 x 5'-0 (K-N.S. M-F.S.) MIE
1-BR - ah
1-BR - s
1-BR ah
1-BR ah
1-BR - s
1-PL b
1-PL c
1-PL - d
1-PL f
1-PL - b
1-Sole PL 402A Det. On Sht. # 402
Comp See GN1
8 @ 2'-11⅜ = 23'-7
5 @ 3'-6½ = 17'-8½
33'-11⅞
32'-11⅞
66'-11¾
% Bott. Flg.
℄ Brg Pier # E7
Girder 471A
Sect. A-A (Typ Inter. Stiffner)
Sec. B-B
Sec. C-C
Tight Fit
Mill to Bear
Camber Diagram
℄ Brg.
For Gen. Notes See Sheet GN1
ELECTRODES - E70XX LOW HYDROGEN
¾ x ¾ "Clip All Stiff As Shown"
Material ASTM-A36
Open Holes 1 5/16" ϕ See Gen. Notes
A325 Field Bolts —
Shop Contact Surfaces N.P
Welding As Noted
Milling As Noted
Paint
Note X
Both sides of material adjacent to all open holes must be free of burrs, [illegible] and paint for a distance of 3" from the group of holes
Span E7 Pier # E7 Line A
1 1 Girder 471 A 5'10x1'6x67'-0
S5 No. Description Mark Remarks
Inst. Required List
Customer Tennessee Dept. of Highways
Arkansas State Highway Commission
Structure East Approach - Miss. River Bridge
Proj. I-40-1(116)0 - Memphis - Tenn.
Bethlehem Steel Corporation
Fabricated Steel Construction
Chicago Drafting Room Leetsdale Works
Made by SAK Date 3-1-71 In Charge F.J.K.
Checked by [illegible] Date 3-8-71 Shop No
Contract CE6472-000 Drawing No 471
For location of details shown on this sheet refer to diagrams
E401





GIRDER - 450A



For location of details shown on this sheet refer to diagrams.

E401

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

SEE SHT. # 450 BB

SPAN 8 - LINE F

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM
MADE BY E.D.S.L. DATE 2-11-71 IN CHARGE FJK
CHECKED BY W.A.L. DATE 2-26-71 SHOP NO.
LEETSDALE WORKS
CONTRACT CEG 972-000 DRAWING NO. 450AB

REVISION: NO | DATE | INIT

SUBMITTAL / DATE: 1 2 3 4 5 6 7 8 9 0

36668 11-69

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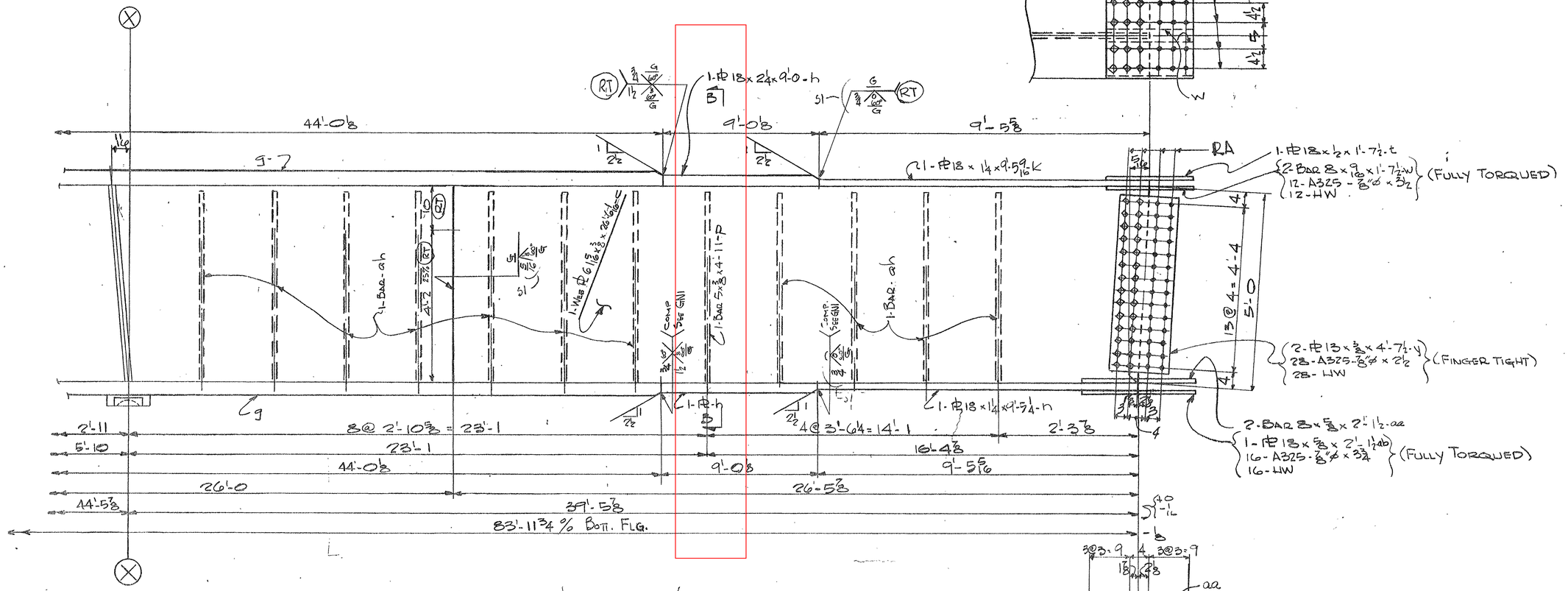
11-18-71

4

MICROFILMED



CAMBER DIAGRAM

(WEB PL'S TO BE WELDED TOGETHER BEFORE BURNING WEB)

NOTE X

Both sides of material adjacent to all openings must be free of burrs, loose scale and paint for a distance of 3" from the group of holes

ELECTRODES - E70XX LOW HYDROGEN

NOTE: ¾" x ¾ CLIP ALL STIFF AS SHOWN

MATERIAL: ASTM-A36 U.N.O.

BOLTS A325

OPEN HOLES 15/16 ø

A325 FIELD BOLTS

SHOP CONTACT SURFACES N.P.

PAINT WELDING / MILLING } AS NOTED

1 Coat ZT-P 615d Type II U.N.O. See Note "X"

FOR GEN NOTES SEE GN1

SPAN 8 - LINE F

	1	1	GIRDER	450A	85'-0
	S4	NO.	DESCRIPTION	MARK	REMARKS
INST.		REQUIRED LIST			

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS / ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE

PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

LIVINGSTON DALE WORKS

CHICAGO DRAFTING ROOM

MADE BY E.DEL DATE 2-11-71 IN CHARGE FJK

CHECKED BY MH DATE 2-26-71 SHOP NO.

CONTRACT CEG 472-000 DRAWING NO. 450 BB

REVISION: NO. 4-5 DATE 5/1 INIT. E

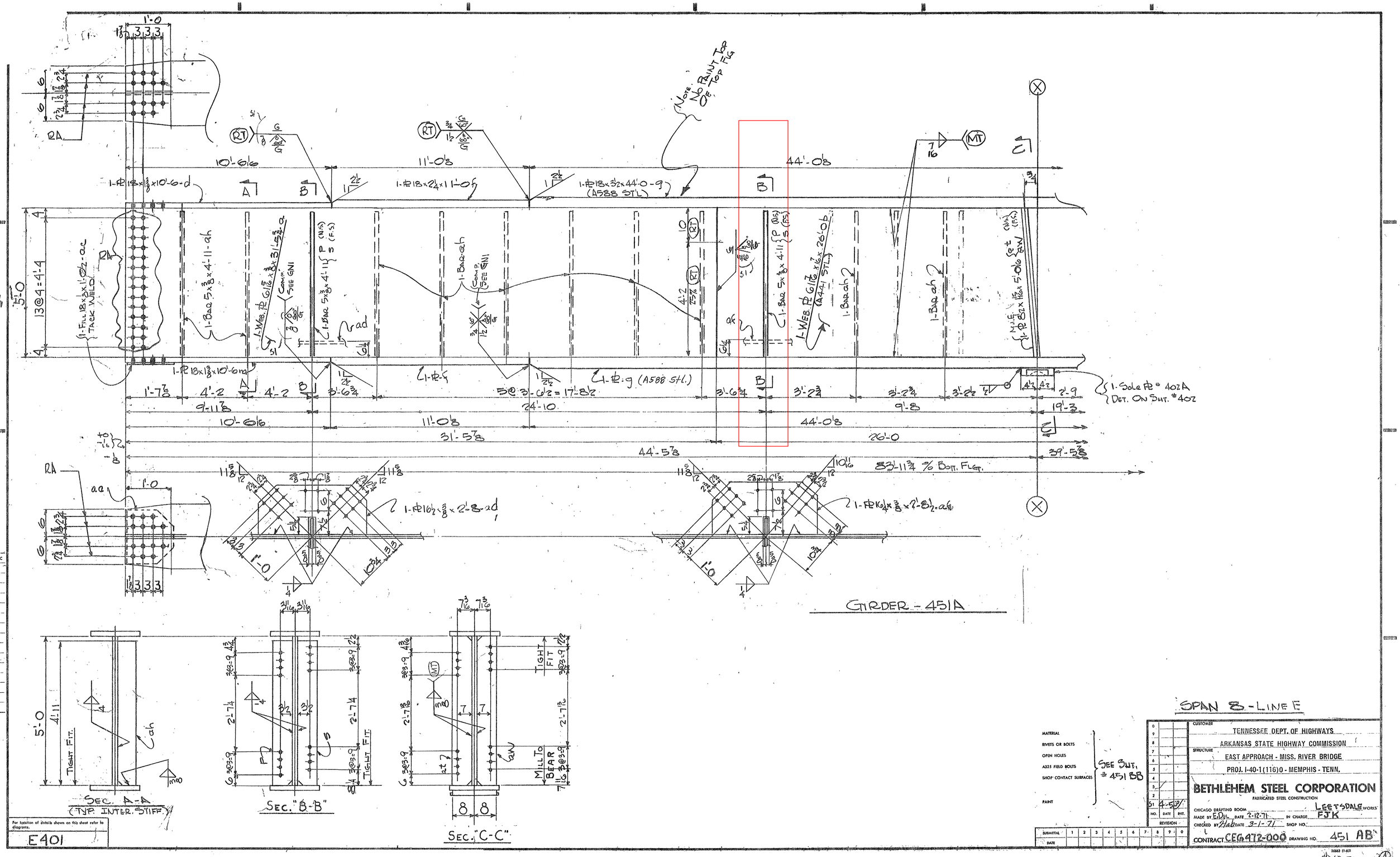
SUBMITTAL DATE

For location of details shown on this sheet refer to diagrams.

E401

M-48-72

5



SPAN 8 - LINE E

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
SEE SHT. # 451 BB

NO.	DATE	INIT.
51	4-5-71	

REVISION

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY E.D.L. DATE 2-12-71 IN CHARGE FJK
CHECKED BY Hab DATE 3-1-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO. 451 AB

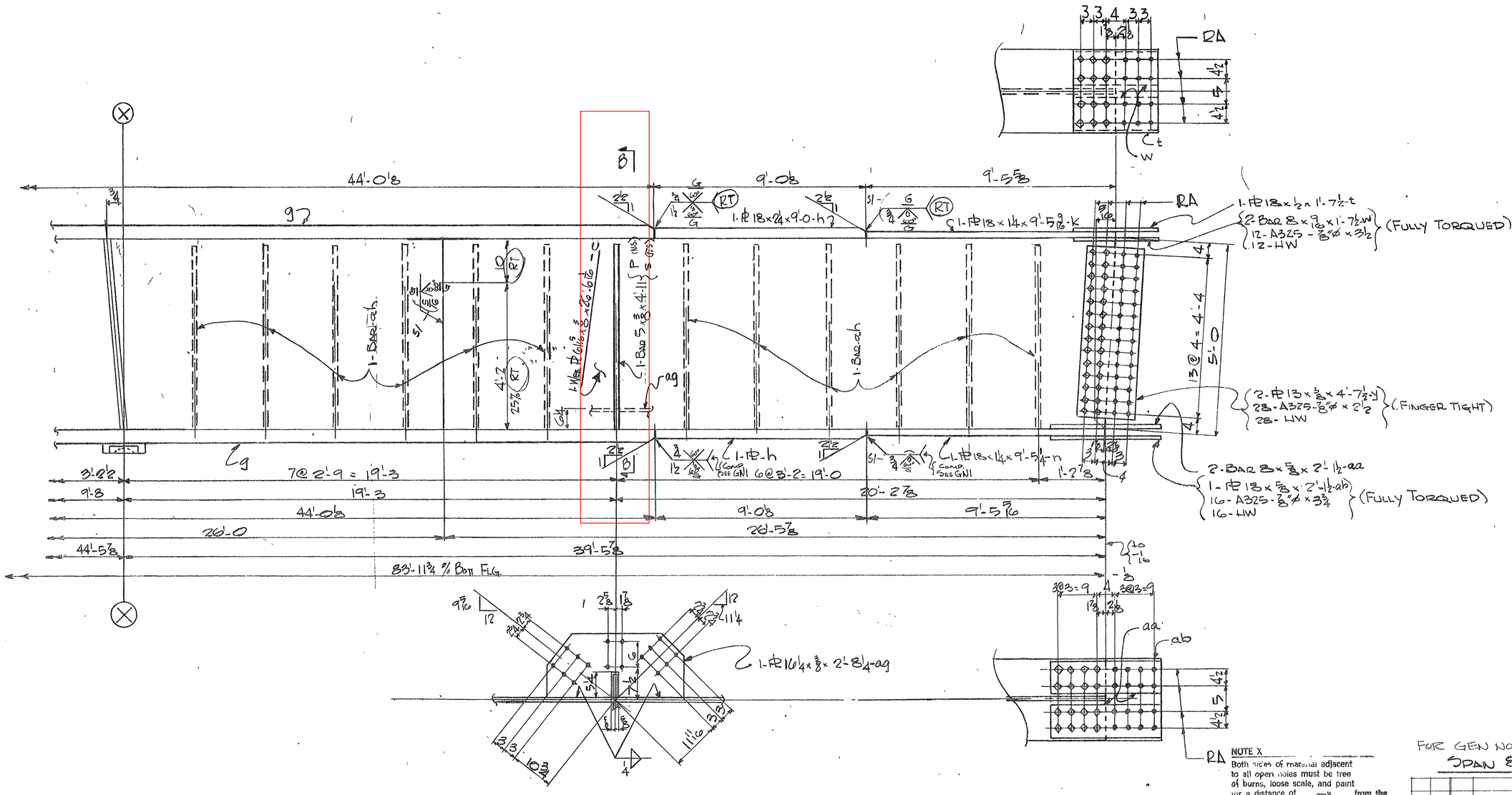
SUBMITTAL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0
DATE

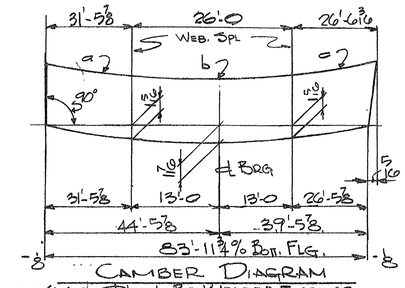
For location of details shown on this sheet refer to diagrams.

E401

MICROFILMED

M-48-73 (4)





CAMBER DIAGRAM
(WEB PL'S to BE WELDED TOGETHER BEFORE BURNING WEB.)

NOTE X
Both sides of material adjacent to all open holes must be free of burns, loose scale, and paint for a distance of 2" from the group of holes.

ELECTRODES - E70XX
LOW HYDROGEN

NOTE: 3/4" x 3/4 CLIP ALL STIFF AS SHOWN

MATERIAL ASTM-A36 U.N.
BOLTS A325
OPEN HOLES 15/16"Ø
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING } AS NOTED
MILLING }
PAINT
1 Coat JT P 615d Type II U.N. 1 See Note "X"

FOR GEN NOTES SEE GN1
SPAN 8 - LINE E

1	1	GIRDER	451A	85'-0
S4	NO	DESCRIPTION	MARK	REMARKS
INST.	REQUIRED LIST			

CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY E. DEL DATE 2-12-71 IN CHARGE FJK
CHECKED BY Hab DATE 3-1-71 SHOP NO
CONTRACT CE6472-000 DRAWING NO 451 BB

NO	DATE	INIT
S1	4-5	

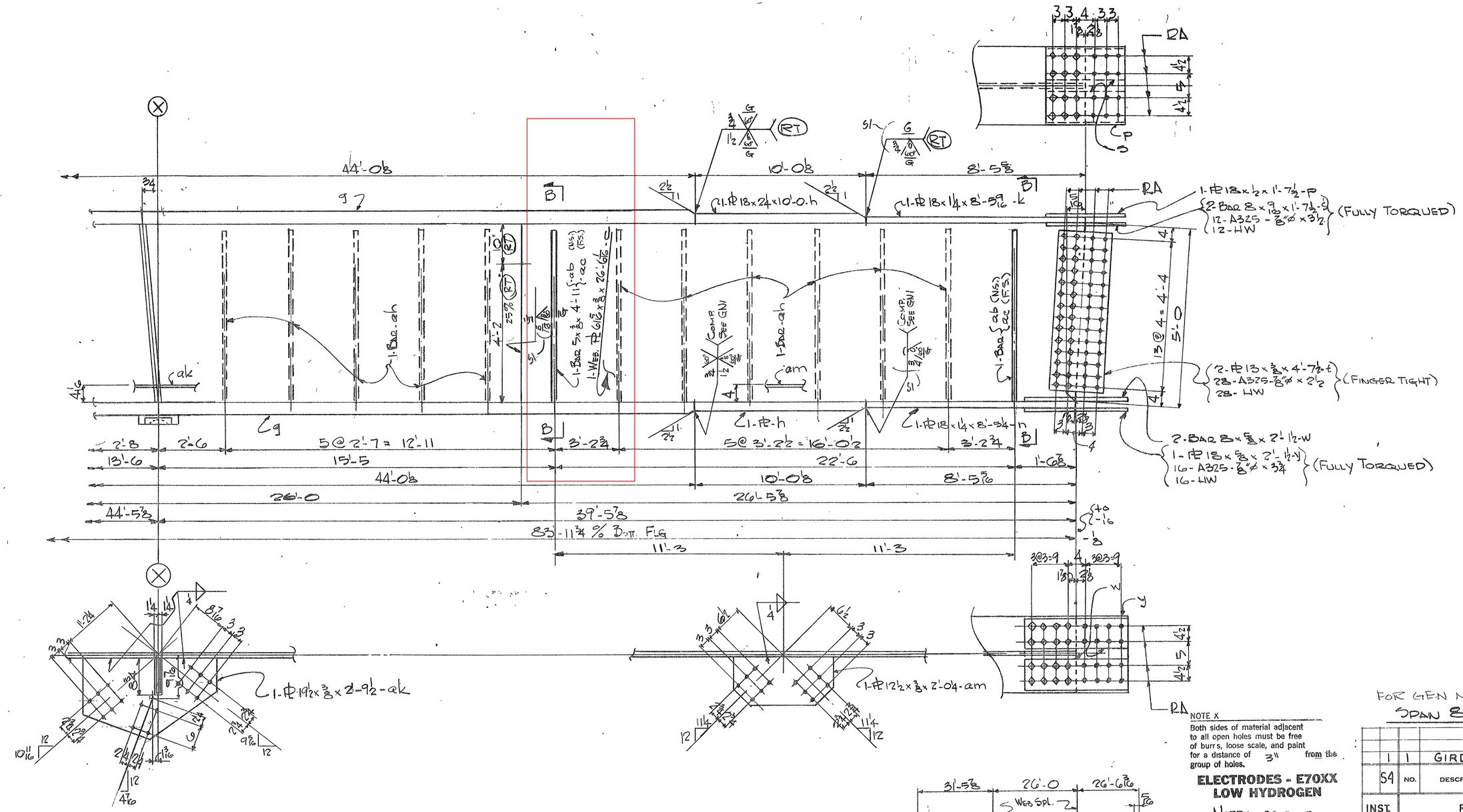
REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

For location of details shown on this sheet refer to diagrams
E401

MICROFILMED

M-48-74 (5)



NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

ELECTRODES - E70XX LOW HYDROGEN

NOTE: ¾" x ¾ CLIP ALL STIFF AS SHOWN

MATERIAL ASTM-A36 U.N.

BOLTS A325

OPEN HOLES 15/16"ø

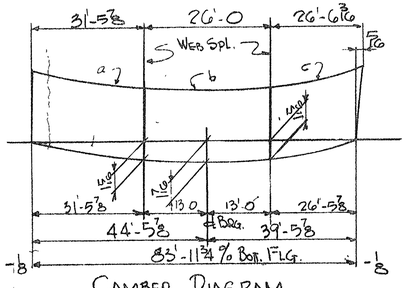
A325 FIELD BOLTS

SHOP CONTACT SURFACES N.P.

WELDING } AS NOTED
MILLING }

PAINT

1 Coat IT-P 615d Type II - U.N. & See Note "X"



CAMBER DIAGRAM
(WEB. PL'S to BE WELDED TOGETHER BEFORE BURNING WEB.)

FOR GEN NOTES SEE GN1

SPAN 8 - LINE D

INST.	NO.	DESCRIPTION	MARK	REMARKS
	1	1 GIRDER	452A	85'-0
S4				

REQUIRED LIST

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY E. DEL DATE 2-16-71 IN CHARGE F.J.K.
CHECKED BY Hale DATE 3-2-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 452 BB

NO	DATE	INIT
S1	4-5	E

REVISION

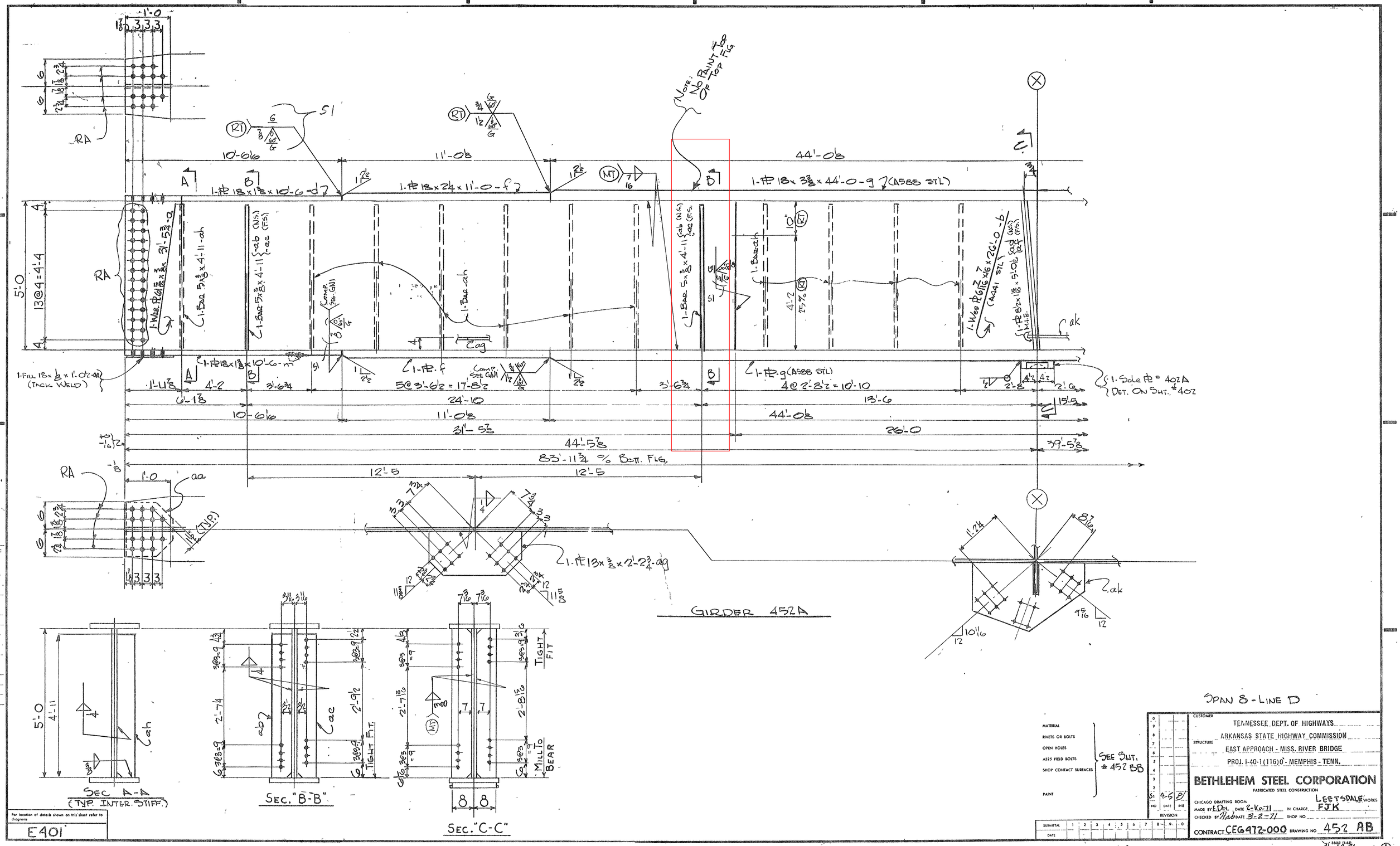
SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

For location of details shown on this sheet refer to diagrams

E401

MICROFILMED

M-48-75 (5)



SPAN 8 - LINE D

MATERIAL	SEE SHT. # 452 BB
RIVETS OR BOLTS	
OPEN HOLES	
A325 FIELD BOLTS	
SHOP CONTACT SURFACES	
PAINT	

NO	DATE	INIT
0		
9		
8		
7		
6		
5		
4		
3		
2		
S1	4-5	P

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

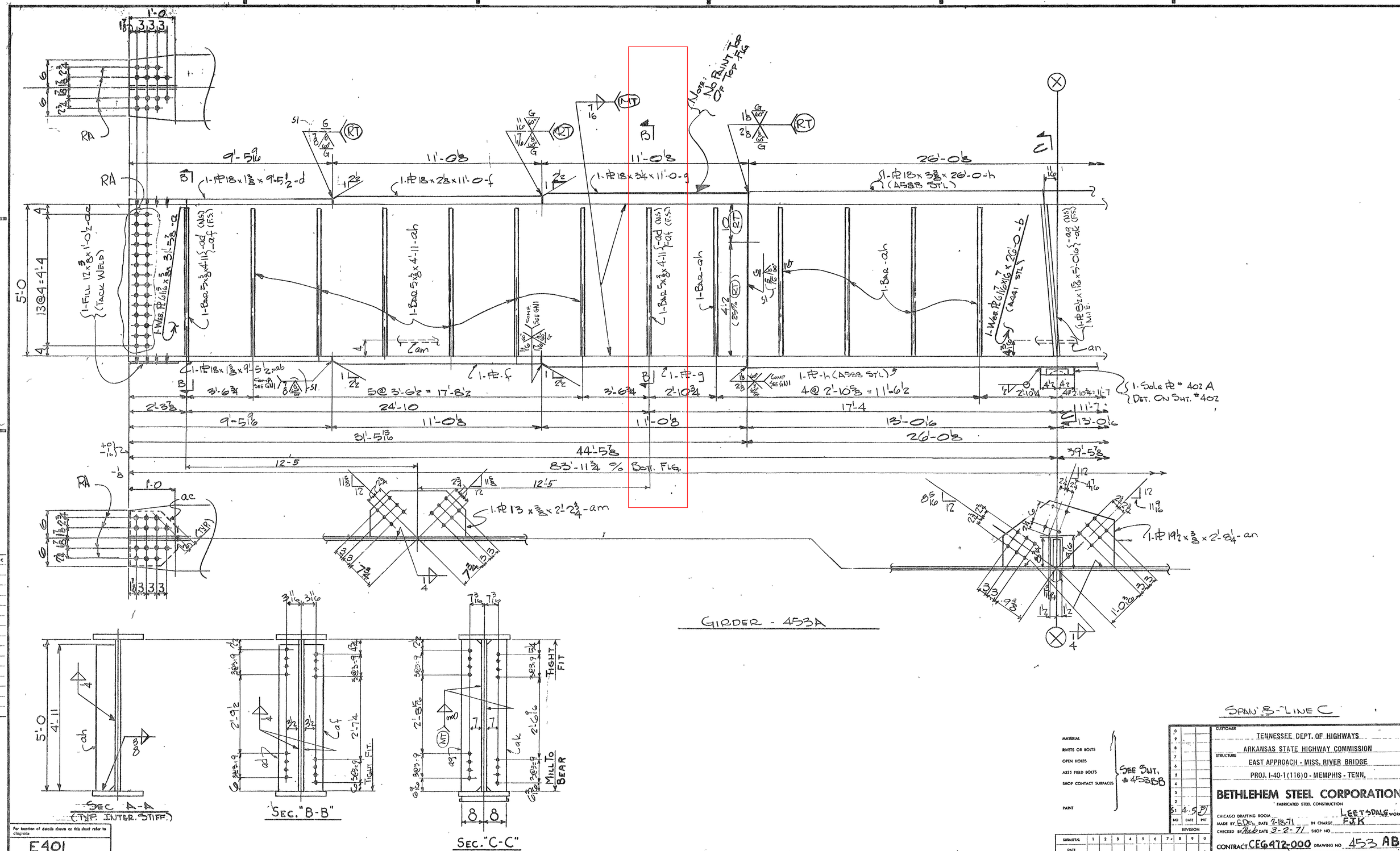
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY E.DEL DATE 2-10-71 IN CHARGE FJK
CHECKED BY Hab DATE 3-2-71 SHOP NO
CONTRACT CEG472-000 DRAWING NO 452 AB

For location of details shown on this sheet refer to diagrams

E401

MICROFILMED



	a	b	c
a	✓		
b	✓		
c	✓		
d	✓		
f	✓		
g	✓		
h	✓		
k	✓		
m	✓		
n			
p			
s			
t			
w			
y			

For location of details shown on this sheet refer to diagrams

E401

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
SEE SHT. # 453BB

NO	DATE	INIT
0		
9		
8		
7		
6		
5		
4		
3		
2		
S1	4-5	PJ

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

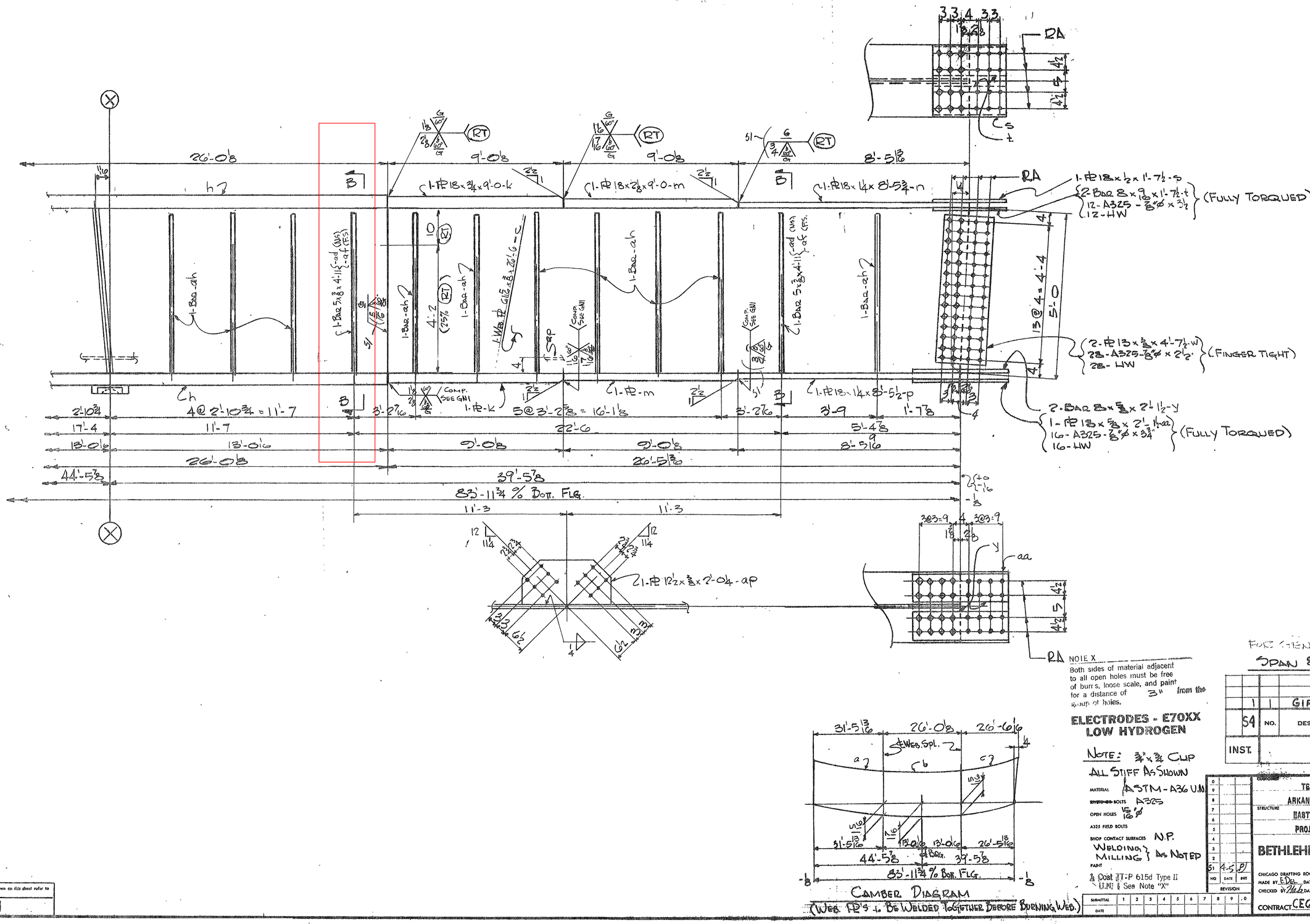
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY E.DEL DATE 2-18-71 IN CHARGE FJK
CHECKED BY Hab DATE 3-2-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO. 453 AB

S4

M-48-77

MICROFILMED



FOR GEN NOTES SEE GN1

SPAN 8 - LINE C

INST.	54	NO.	DESCRIPTION	MARK	REMARKS
		1	GIRDER	453A	850
			REQUIRED LIST		

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

REVISION

NO	DATE	INIT
5	4-5	PJ

TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

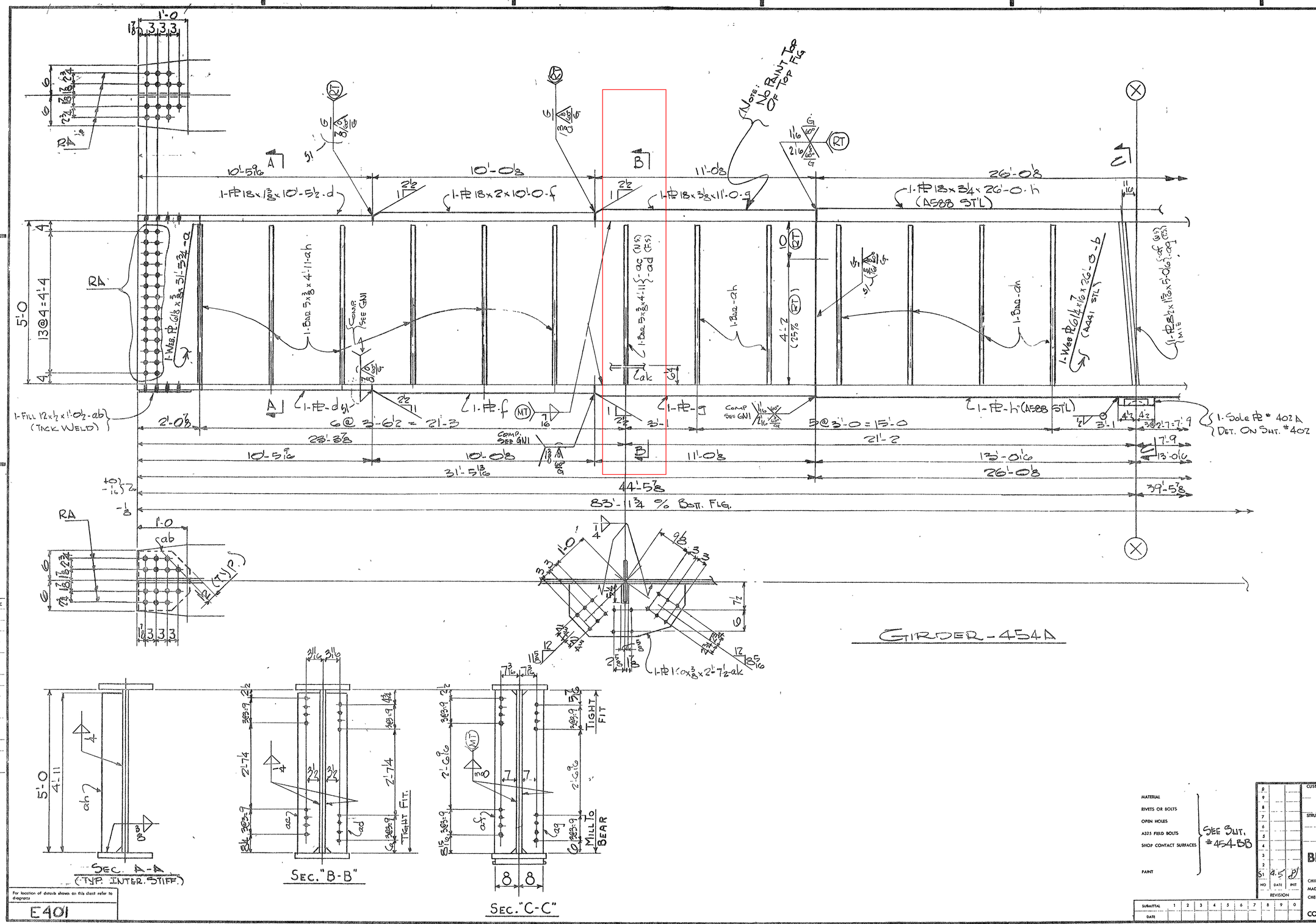
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY EDel DATE 2-18-71 BY CHARGE FJK
CHECKED BY Mak DATE 3-2-71 SHOP NO.
CONTRACT CEG472-000 DRAWING NO. 453BB

For location of details shown on this sheet refer to diagrams, E401

MICROFILMED

11-18-78



SPAN 8 - LINE B

For location of details shown on this sheet refer to diagrams

E401

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
SEE SHT. #454BB

NO	DATE	INIT
S1	4-5	[illegible]

REVISION

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

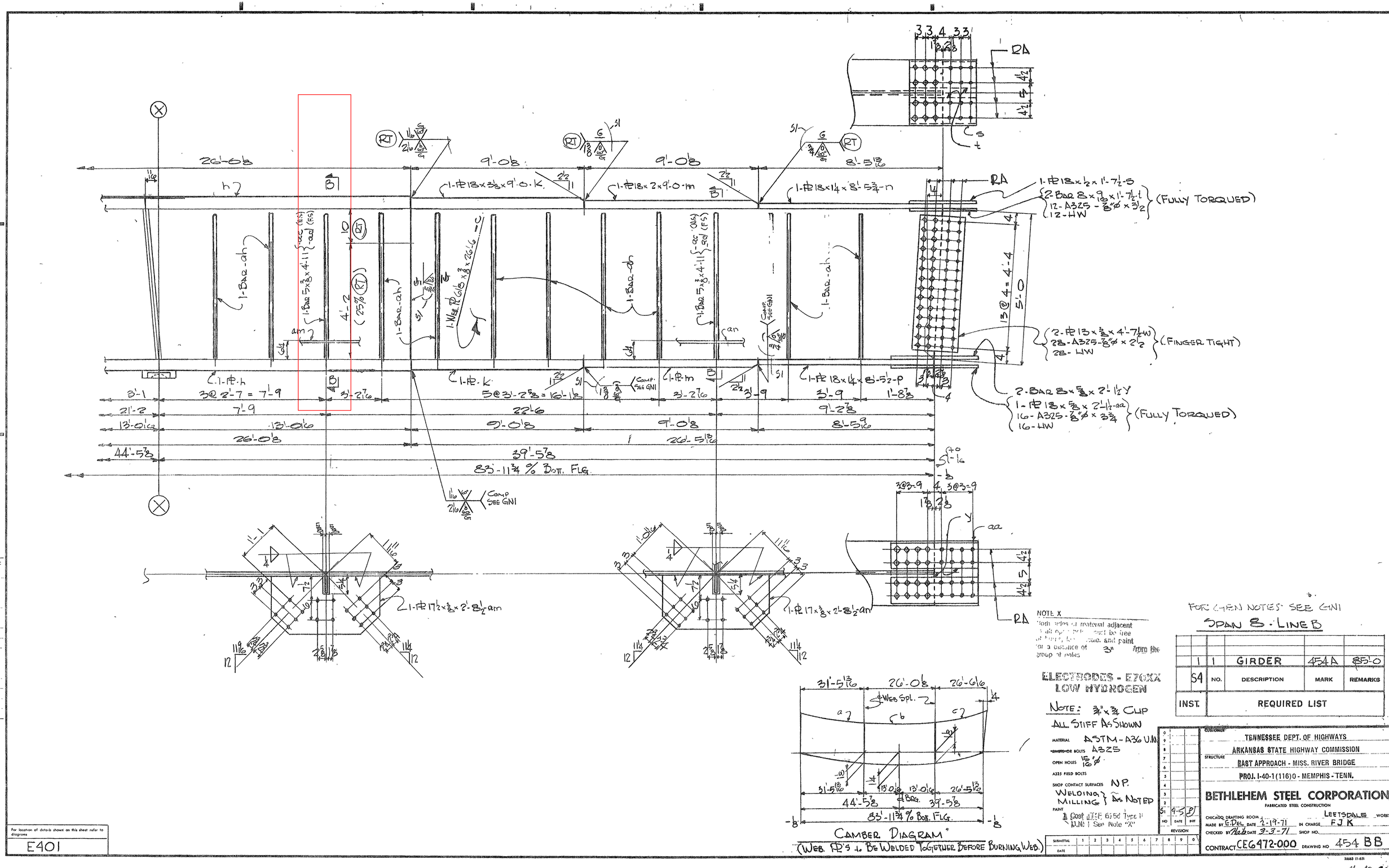
CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY E. DEL DATE 7-18-71 IN CHARGE FJK
CHECKED BY [illegible] DATE 3-3-71 SHOP NO
CONTRACT CEG472-000 DRAWING NO 454AB

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

MICROFILMED

S4

MP-48-79 (A)



CAMBER DIAGRAM
(WEB PL'S TO BE WELDED TOGETHER BEFORE BURNING WEB.)

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes

ELECTRODES - E70XX
LOW HYDROGEN

NOTE: 3/4" x 3/4 CLIP
ALL STIFF AS SHOWN

MATERIAL ASTM - A36 U.N.
~~RIVETS OR~~ BOLTS A325
OPEN HOLES 15/16"Ø
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING } AS NOTED
MILLING }
PAINT
1 Coat [illegible] 615d Type II
U.N.I. See Note "X"

FOR GEN NOTES SEE GN1

SPAN 8 - LINE B

INST.	S4	NO.	DESCRIPTION	MARK	REMARKS
		1	GIRDER	454A	85'-0

REQUIRED LIST

NO	DATE	BY
S1	4-5	[illegible]

REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

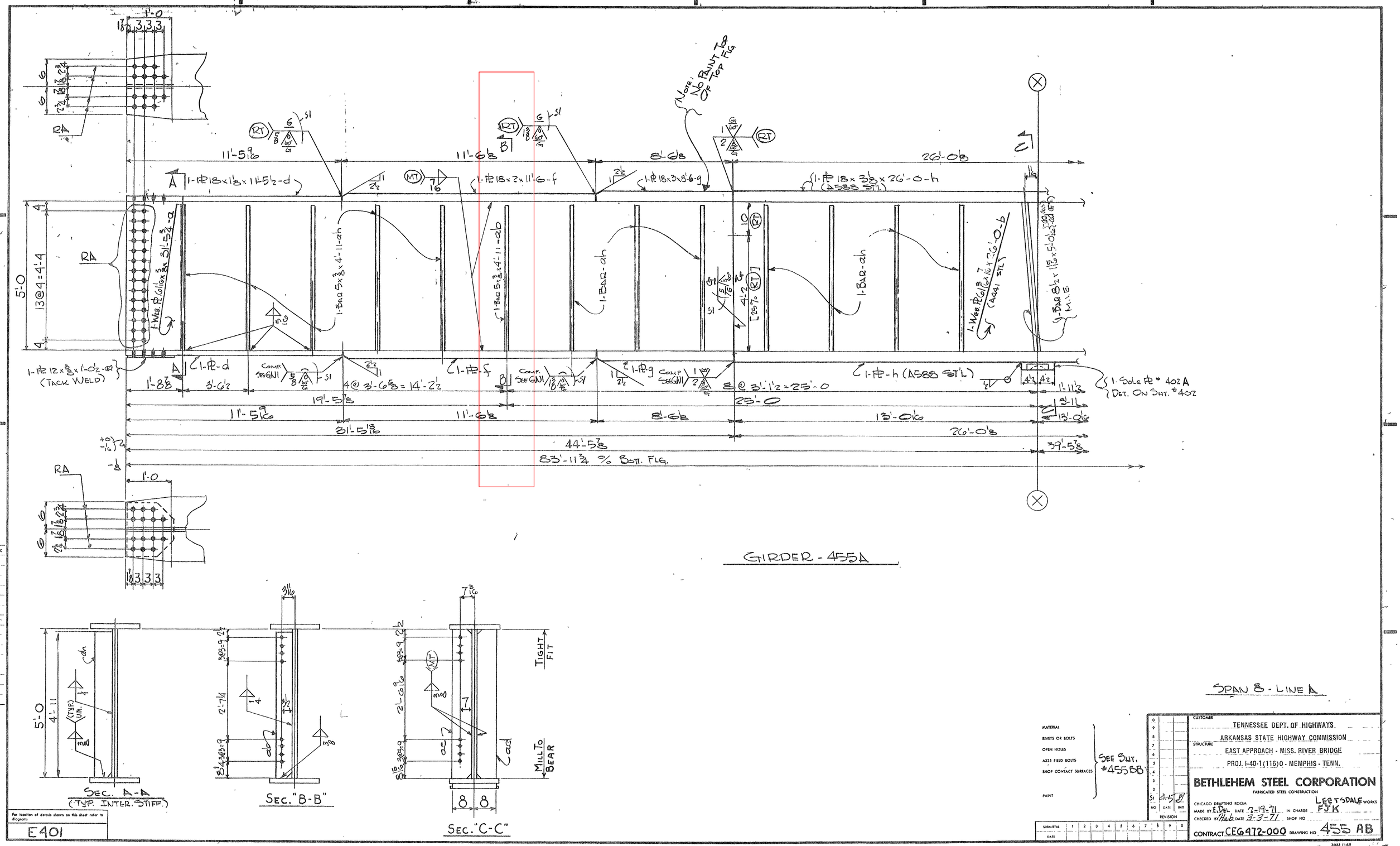
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY E. DEL DATE 2-19-71 IN CHARGE FJK
CHECKED BY [illegible] DATE 3-3-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO 454 BB

For location of details shown on this sheet refer to diagrams

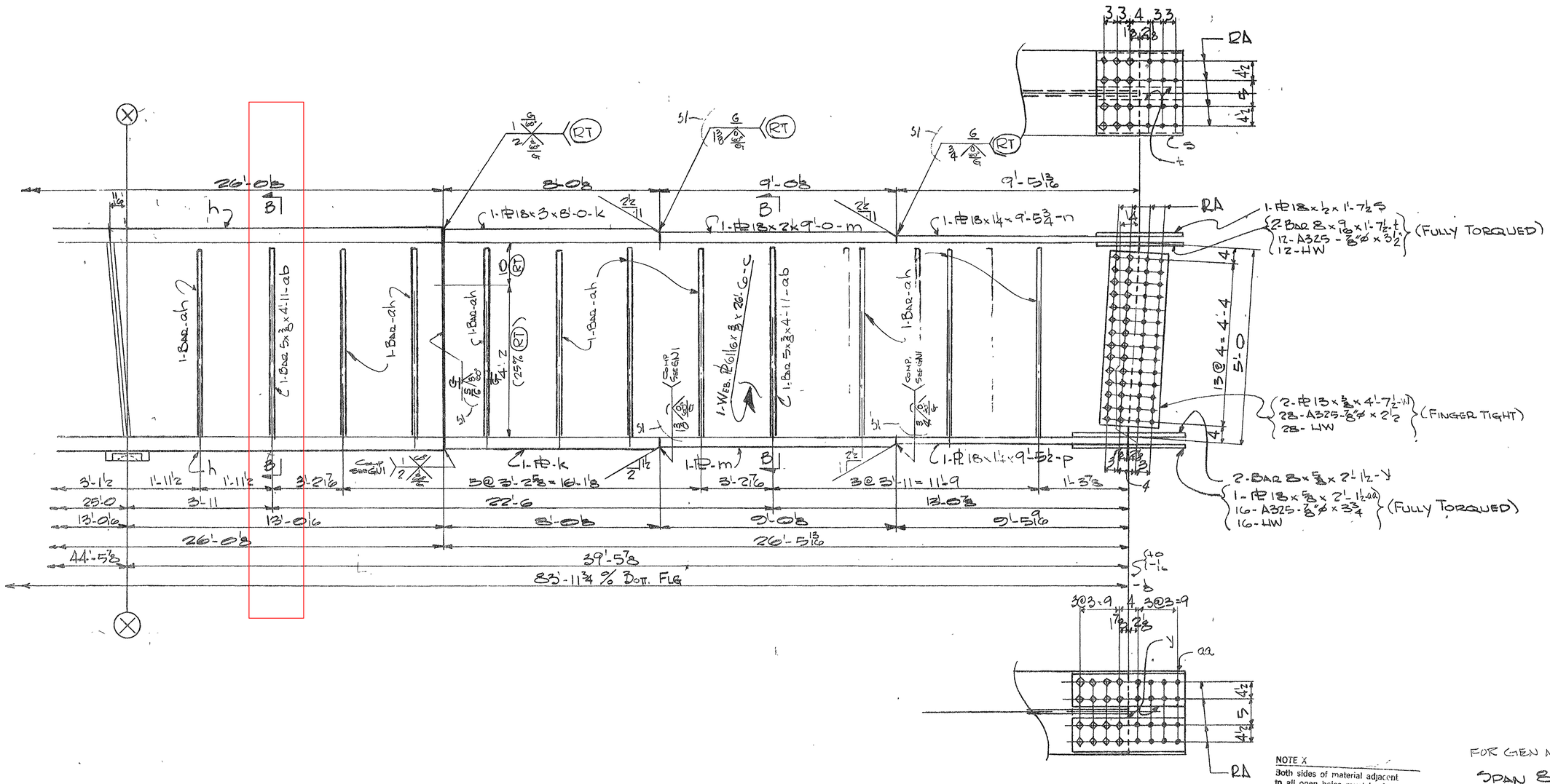
E401

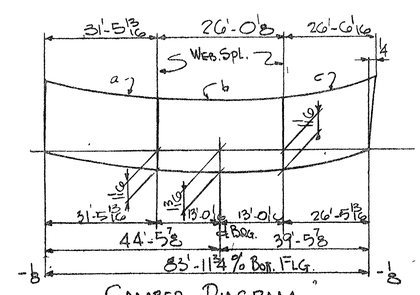
M-48-80 (5)

MICROFILMED



GIRDER - 455A
SPAN 8 - LINE A
NOTE: NO PAINT TOP OF TOP FLG
1-PL 18x1 1/8x11-5 1/2-d
1-PL 18x2x11'-6-f
1-PL 18x3x8'-6-g
1-PL 18x3 1/8x26'-0-h (A588 STL)
1-PL 12x3/8x1'-0 1/2-aa (TACK WELD)
1-PL-d
1-PL-f
1-PL-g
1-PL-h (A588 STL)
1-Sole PL # 402A DET. ON SHT. #402
1-BAR 5x3/8x4'-11-ah
1-BAR 5x3/8x4'-11-ab
1-BAR-ah
1-WEB PL 61 1/16x3/8x31'-5 3/4-a
1-WEB PL 61 3/16x7/16x26'-0-b (A441 STL)
1-BAR 8 1/2x1 1/16x5'-0 1/16-aa (FS)
1-BAR 8 1/2x1 1/16x5'-0 1/16-aa (FS)
M.I.E.
COMP. SEE GN1
4@3'-6 5/8=14'-2 1/2
8@3'-1 1/2=25'-0
11'-5 9/16
11'-6 1/8
8'-6 1/8
26'-0 1/8
19'-5 7/8
25'-0
13'-0 1/16
31'-5 13/16
44'-5 7/8
39'-5 7/8
83'-11 3/4 % BOTT. FLG.
13@4=4'-4
5'-0
RA
SEC. A-A (TYP. INTER. STIFF.)
SEC. "B-B"
SEC. "C-C"
TIGHT FIT
MILL TO BEAR
For location of details shown on this sheet refer to diagrams
E401
MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
SEE SHT. #455BB
CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM
MADE BY E. DEL DATE 2-19-71 IN CHARGE FJK
CHECKED BY Hab DATE 3-3-71 SHOP NO
LEETSDALE WORKS
CONTRACT CEG472-000 DRAWING NO 455 AB
REVISION
SUBMITTAL
DATE





CAMBER DIAGRAM
(WEB. PL'S TO BE WELDED TOGETHER BEFORE BURNING WEB.)

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

FOR GEN NOTES SEE GN1

SPAN 8 - LINE A

INST.	REQUIRED LIST			
S4	NO.	DESCRIPTION	MARK	REMARKS
	1	1	GIRDER	455A	85'

ELECTRODES - E70XX LOW HYDROGEN

NOTE: 3/4"x3/4 CLIP ALL STIFF AS SHOWN

MATERIAL ASTM-A36 U.N.
BOLTS A325
OPEN HOLES 15/16"ø
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING } AS NOTED
MILLING }
PAINT
1 Coat 11-P 615a Type II
U.N. 1 See Note "X"

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)D - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEETSDALE WORKS
MADE BY E. DEL DATE 2-19-71 IN CHARGE F J K
CHECKED BY Hak DATE 3-3-71 SHOP NO
CONTRACT CE6472-000 DRAWING NO 455BB

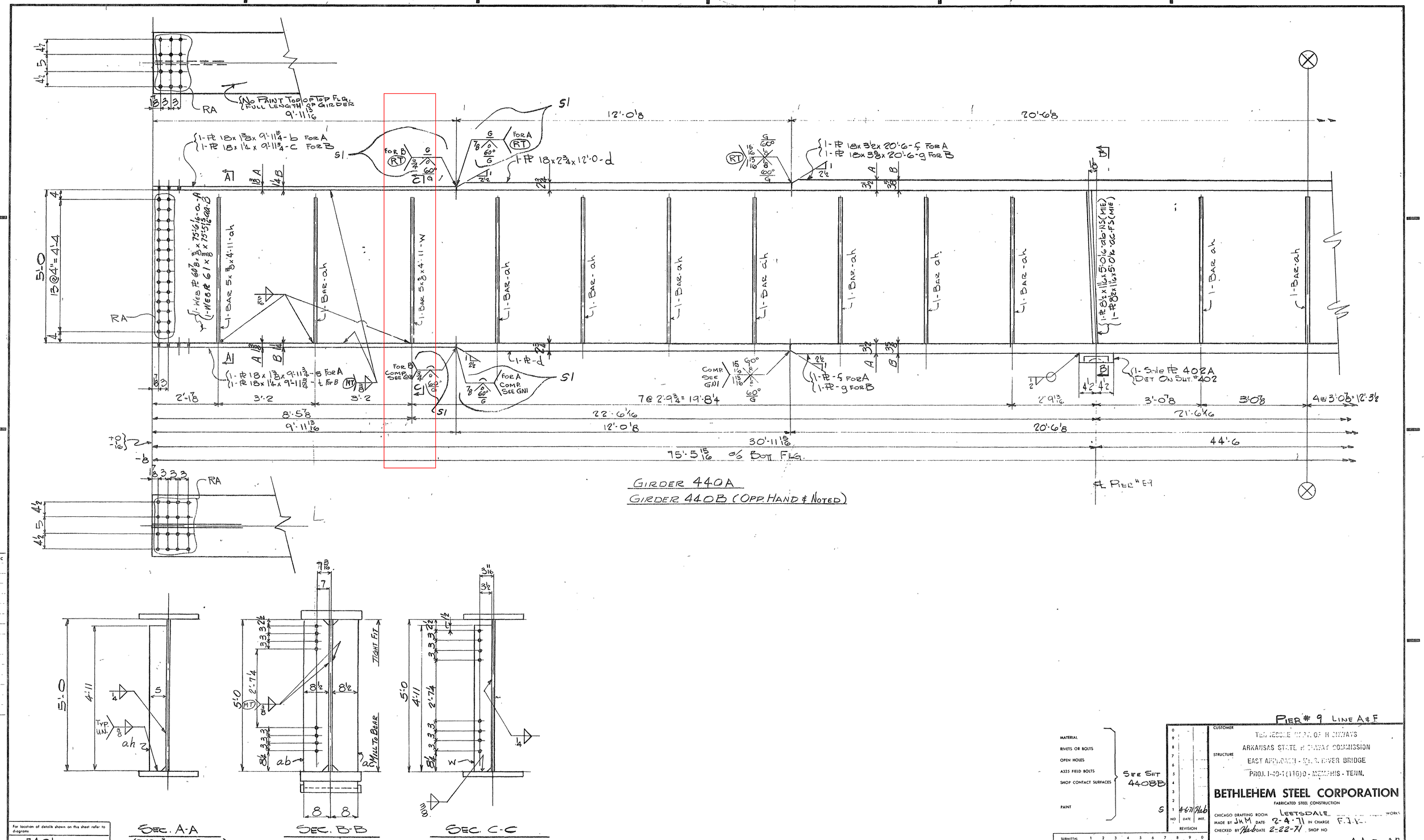
NO	DATE	INIT
5	4-5	DJ

REVISION

For location of details shown on this sheet refer to diagrams
E401

MICROFILMED

M-48-82 (5)



PIER # 9 LINE A & F

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT
SEE SHT 440BB

NO	DATE	INIT.
5	4-6-71	Hab

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

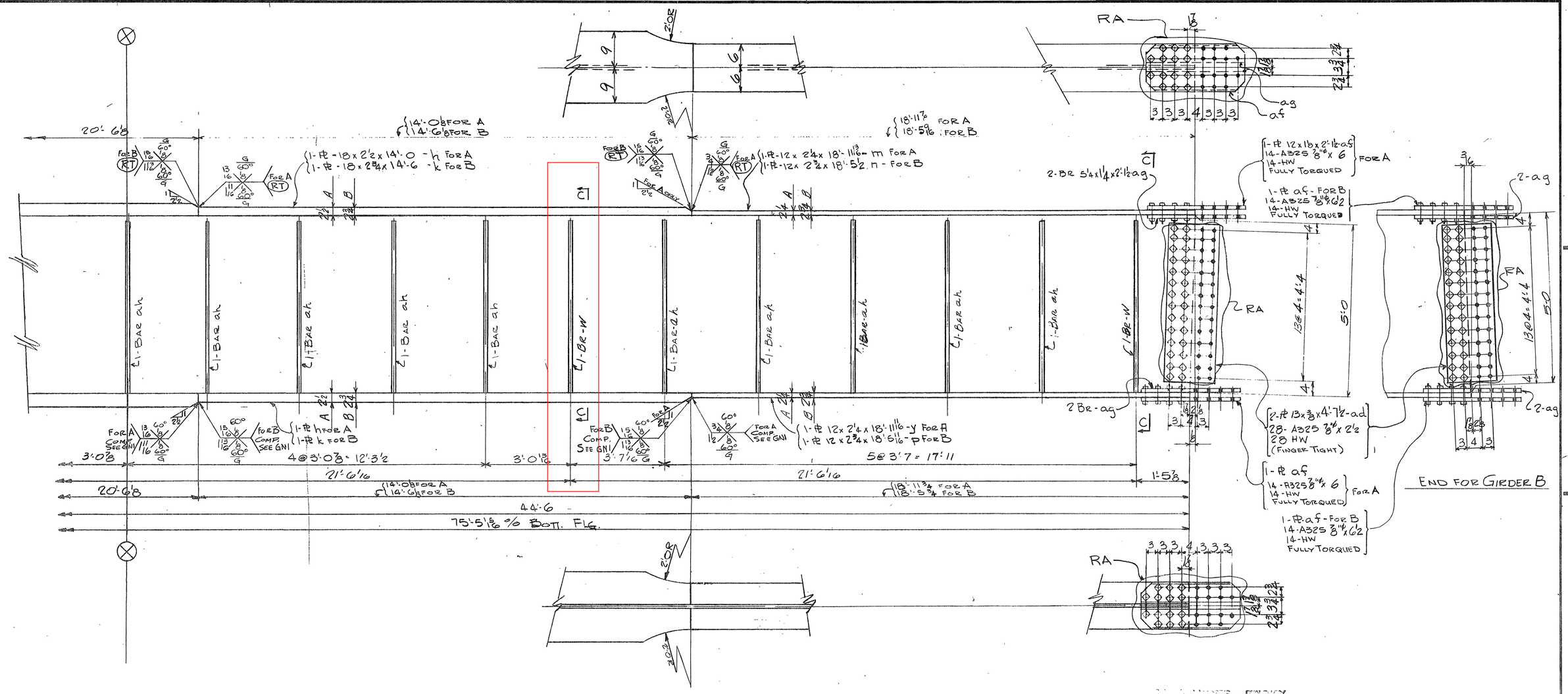
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

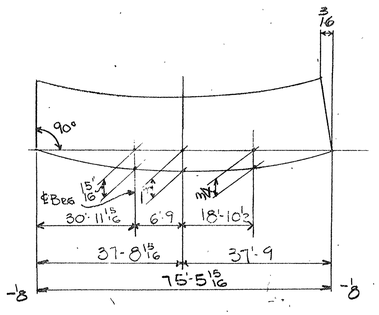
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY JKM DATE 2-4-71 IN CHARGE F.J.K.
CHECKED BY Hab DATE 2-22-71 SHOP NO
CONTRACT CE6477-006 DRAWING NO 440 AB

For location of details shown on this sheet refer to diagrams
E401

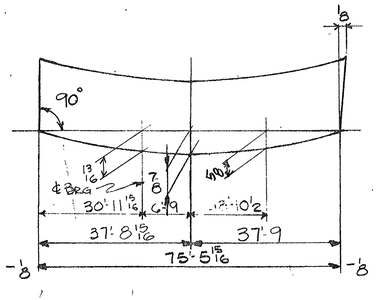
M-48-51

MICROFILMED





CAMBER DIAGRAM FOR B



CAMBER DIAGRAM FOR A

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the [illegible]

NOTE: 3/4" x 3/4" CLIP ALL STIFF AS SHOWN

FOR GEN NOTES SEE GN1

INST.	S3	NO.	DESCRIPTION	MARK	REMARKS
	1	1	GIRDER	440B	
	1	1	GIRDER	440A	

REQUIRED LIST

MATERIAL - A.S.T.M. A-36
[redacted] BOLTS 7/8"φ A-325
OPEN HOLES 15/16"φ
A325 FIELD BOLTS —
SHOP CONTACT SURFACES - N.P
WELDING: AS NOTED
MILLING: AS NOTED
PAINT 1 Coat TT-P 615d Type II U.N.I. See Note [illegible]

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(110)0 - MEMPHIS - TENN.

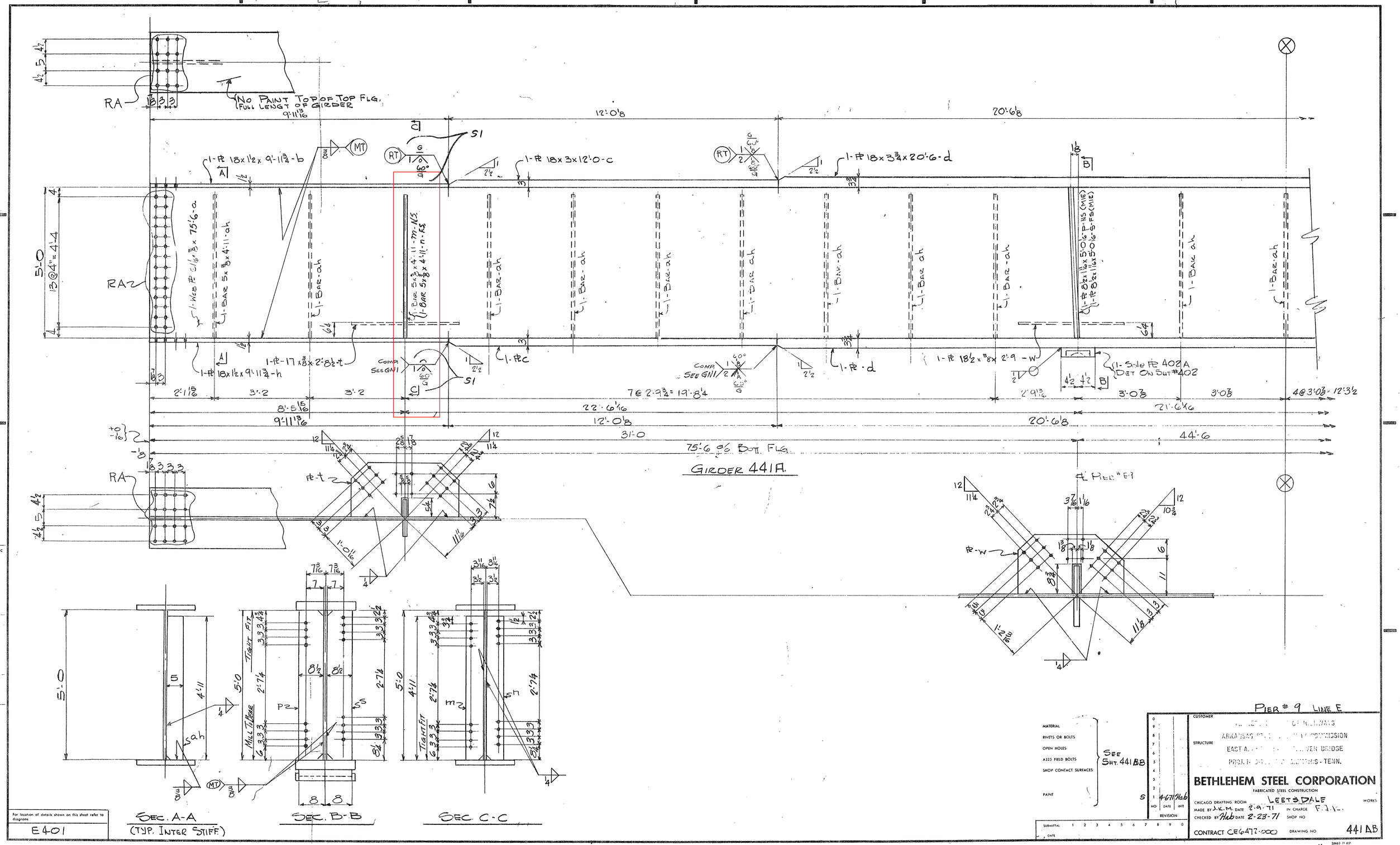
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY J.K.M. DATE 2-8-71 IN CHARGE F.J.K.
CHECKED BY Hab DATE 2-22-71 SHOP NO
CONTRACT CE6472-000 DRAWING NO. 440 BB

For location of details shown on this sheet refer to diagrams

E401

M-48-52



For location of details shown on this sheet refer to diagrams

E401

PIER # 9 LINE E

MATERIAL	SEE SHT. 441BB
RIVETS OR BOLTS	
OPEN HOLES	
A325 FIELD BOLTS	
SHOP CONTACT SURFACES	
PAINT	

NO	DATE	INIT
1	4-6-71	Hab

REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0

DATE

CUSTOMER

STRUCTURE

ARKANSAS ... COMMISSION

EAST A... BRIDGE

PROJ. ... MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS

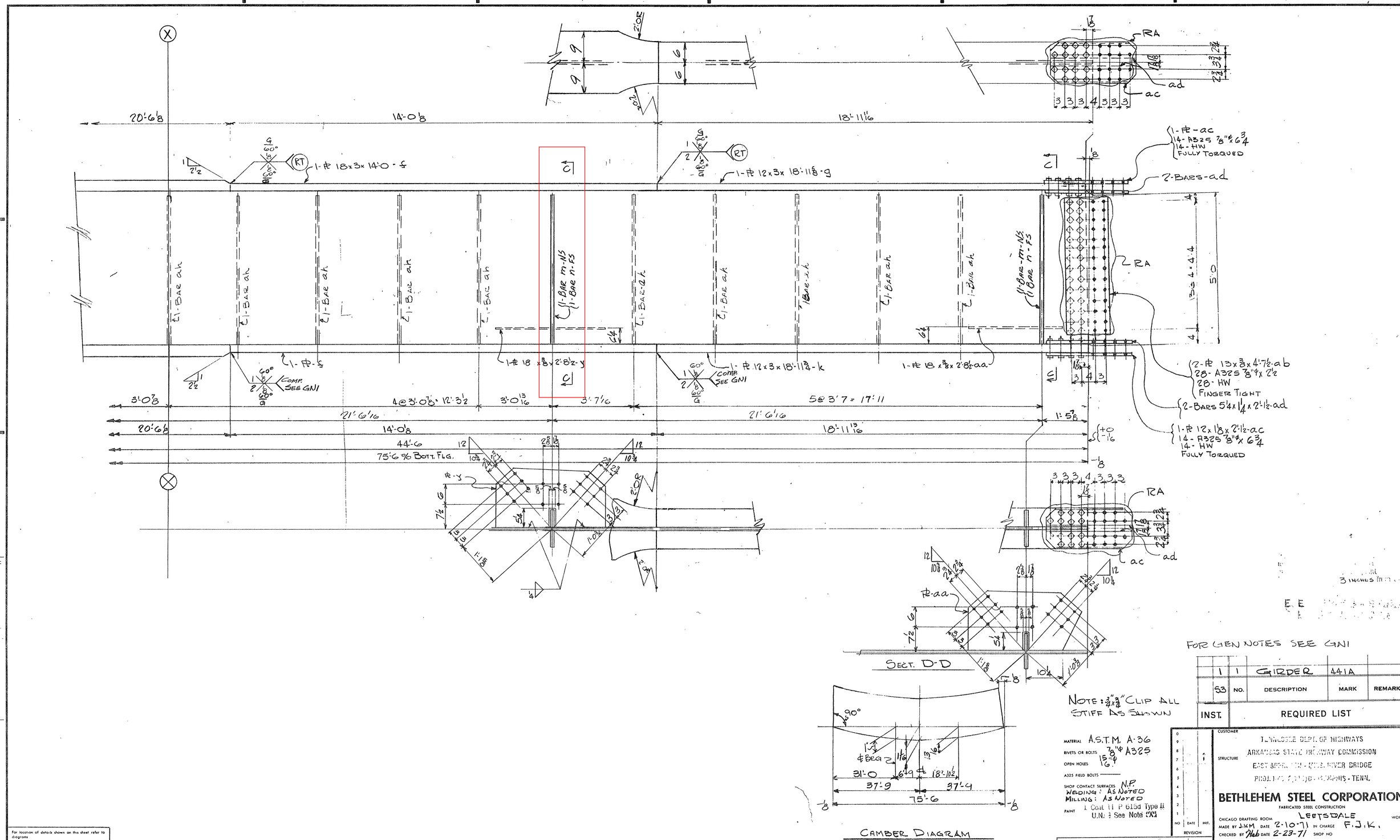
MADE BY J.K.M. DATE 2-9-71 IN CHARGE F.J.K.

CHECKED BY Hab DATE 2-23-71 SHOP NO

CONTRACT CE6472-000 DRAWING NO 441AB

M-48-53

MICROFILMED



FOR GEN NOTES SEE GN1

NOTE: 3/4"x3/4" CLIP ALL STIFF AS SHOWN

INST.	REQUIRED LIST			
S3	NO.	DESCRIPTION	MARK	REMARKS
1	1	GIRDER	441A	

MATERIAL A.S.T.M. A-36
RIVETS OR BOLTS 7/8"φ A325
OPEN HOLES 15/16"φ
A325 FIELD BOLTS
SHOP CONTACT SURFACES N.P.
WELDING: AS NOTED
MILLING: AS NOTED
PAINT 1 Coat 11 P 615d Type II U.N. 1 See Note "X"

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. NO. [illegible] - MEMPHIS - TENN.

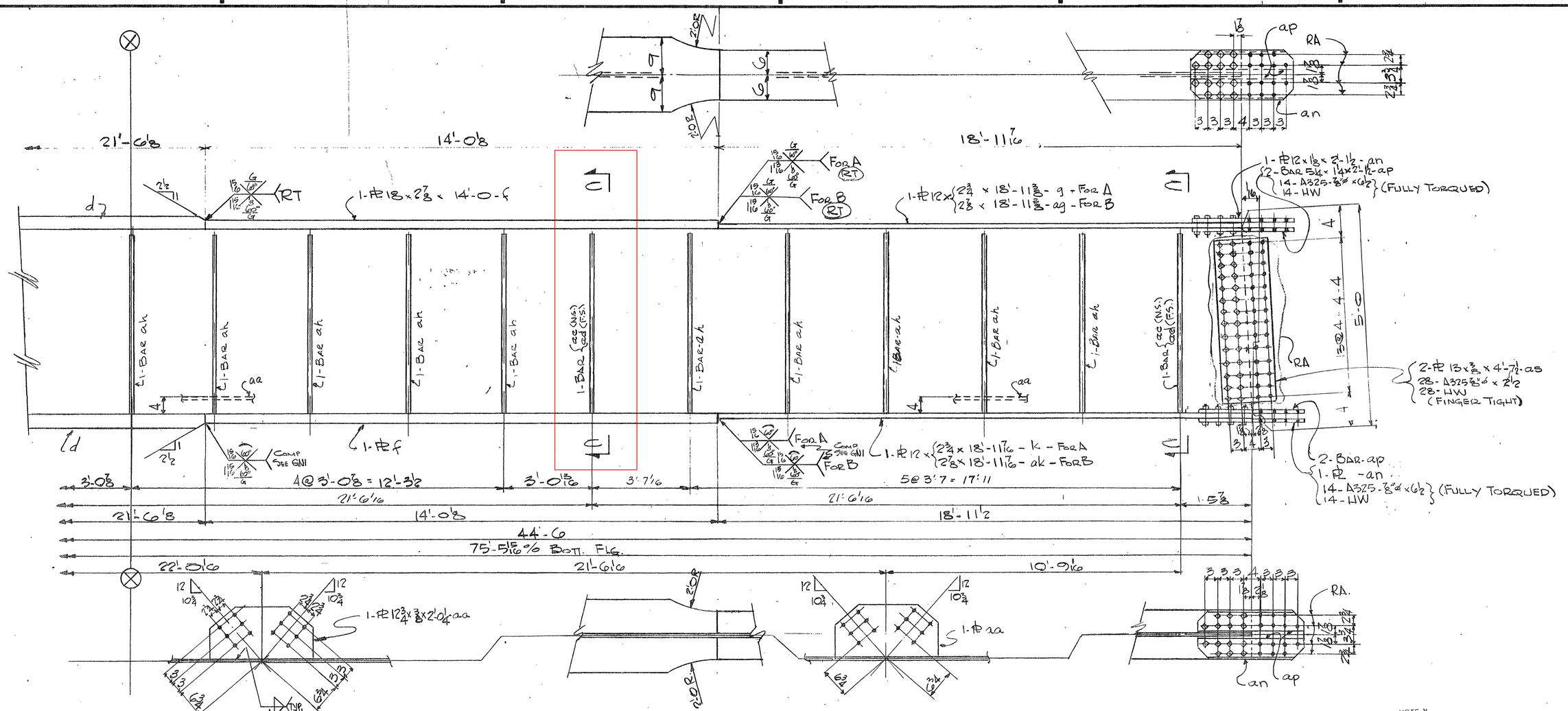
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY J.K.M. DATE 2-10-71 IN CHARGE F.J.K.
CHECKED BY Hab DATE 2-23-71 SHOP NO
CONTRACT CE6472-000 DRAWING NO 441 BB

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

For location of details shown on this sheet refer to diagrams
E401

M-48-54

No Paint Top Of Top Flg.
RA
10'-0 1/16
11'-0 1/8
21'-6 1/8
1-PL 18x1 1/2x10'-0-b
1-PL 18x3x11'-0-c
1-PL 18x3 3/4x21'-6-d
RT
MT
51
1-Web PL 61 x 3/8 x 75'-5 15/16-a
1-Bar 5x 3/8x4'-11-ah
1-Bar 5x3/8x4'-11 ae (N.S.) ad (F.S.)
1-Bar-ah
ab
1-PL 18x1 1/2x10'-0-h
1-PL-c
1-PL-d
Comp. See GN1
1-Sole PL - 402A Det On Sht. #402
2'-1 7/8
3'-2
7@2'-9 3/4=19'-8 1/4
2'-9 13/16
3'-0 7/8
4@3'-0 7/8=12'-3 1/2
8'-5 7/8
22'-6 1/16
21'-6 1/16
21'-6 1/8
30'-11 15/16
44'-6
75'-5 15/16 o/o Bott Flg.
19'-8 7/8
22'-0 1/16
CL Pier "E9
1-PL 12 1/2x3/8x2'-0 1/4 ab
Girder-442A (As Shown)
Girder-442B (Opp. Hand)
Sec. A-A (Typ. Inter Stiff)
Sec. B-B
Sec C-C
Tight Fit.
Mill to Bear
5'-0
4'-11
13@4"=4'-4
Material
Rivets or bolts
Open holes
A325 field bolts
Shop contact surfaces
Paint
See Sht. #442BB
Pier #9 - Line C&D
Customer
Arkansas State Highway Commission
Structure
Proj. ... Memphis - Tenn.
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
Chicago Drafting Room
Made by E.Del Date 2-21-71
Checked by Hab Date 2-24-71
In Charge F.J.K.
Shop No
Contract CE6477-000
Drawing No. 442 AB
Revision 1 4-6-71 Hab
For location of details shown on this sheet refer to diagrams.
E401
MICROFILMED
M-48-55

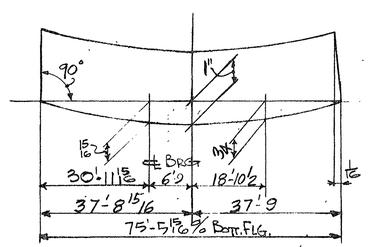


NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes

FOR GEN NOTES SEE GN1

ELECTRODES - E70XX LOW HYDROGEN

NOTE: ¾ x ¾" CLIP ALL STIFF AS SHOWN



CAMBER DIAGRAM

	NO.	DESCRIPTION	MARK	REMARKS
1	1	GIRDER	442B	5'-6 x 2'-6 x 7/8
1	1	GIRDER	442A	Do
BB				
INST.		REQUIRED LIST		

MATERIAL	ASTM - A36
RIVETS OR BOLTS	⅞" ø A325
OPEN HOLES	15/16" ø
A325 FIELD BOLTS	
SHOP CONTACT SURFACES WELDING	N.P.
SHOP CONTACT SURFACES MILLING	AS NOTED
PAINT	1 Coat ZI-P 6010 Type I (1.0 to 1.5 mils)

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM — LEESTOWN 2 WORKS
MADE BY C.DEL DATE 2-9-71 — IN CHARGE F.J.K.
CHECKED BY DATE 2-24-71 — SHOP NO.
CONTRACT CE 6472-000 — DRAWING NO. 442 BB

REVISION: NO | DATE | INIT

SUBMITTAL DATE: 1 2 3 4 5 6 7 8 9 0

For location of details shown on this sheet refer to diagrams.
E401

MICROFILMED

M-48-56 Master

36663 (1-65)

RA

No Paint Top of Top Flg Full Length of Girder

8'-11 13/16

12'-0 1/8

21'-6 1/8

1-PL 18 x 1 1/2 x 8'-11 3/4 - b

1-PL 18 x 2 3/8 x 12'-0 - c

1-PL 18 x 3 3/4 x 21'-6 - d

1-Web PL 61 x 3/8 x 75'-6 - a

1-Bar 5 x 3/8 x 4'-11 - ah

1-PL 18 x 1 1/2 x 8'-11 3/4 - h

1-PL 17 x 3/8 x 28 1/2 - t

Comp See GN1

1-PL - c

1-PL - d

1-PL 18 1/2 x 3/8 x 2'-9 - w

1-Sole PL 402A (Det. on Sht. #402)

1-PL 8 1/2 x 1 1/16 x 5'-0 6 - P - NS(MIE)

1-PL 8 1/2 x 1 1/16 x 5'-0 6 - S - FS (MIE)

5'-0

13 @ 4" = 4'-4

2'-1 7/8 | 3'-2 | 3'-2 | 7 @ 2'-9 3/4 = 19'-8 1/4 | 2'-9 1/2 | 3'-0 7/8 | 3'-0 7/8 | 4 @ 3'-0 7/8 = 12'-3 1/2

8'-5 7/8 | 8'-11 13/16 | 22'-6 1/16 | 12'-0 1/8 | 21'-6 1/8 | 21'-6 1/16

30'-11 13/16 | 44'-6

75'-5 13/16 Bott Flg.

GIRDER 443A

℄ Pier "E9"

℄ Match Line

Sec. A-A (Typ. Inter. Stiff.)

Sec. B-B

Sec. C-C

For location of details shown on this sheet refer to diagrams

E401

Material

Rivets or Bolts

Open Holes

A325 Field Bolts

Shop Contact Surfaces

Paint

See Sht 443BB

Pier # 9 Line B

Customer: Tennessee Dept. of Highways

Structure: Arkansas State Highway Commission

East Approach - Mississippi River Bridge

Proj. I-40-1(16)0 - Memphis - Tenn.

Bethlehem Steel Corporation

Fabricated Steel Construction

Chicago Drafting Room Leetsdale Works

Made by J.G.M. Date 2-10-71 In Charge F.J.K.

Checked by Hab Date 2-25-71 Shop No.

Contract CE6417-000 Drawing No. 443AB

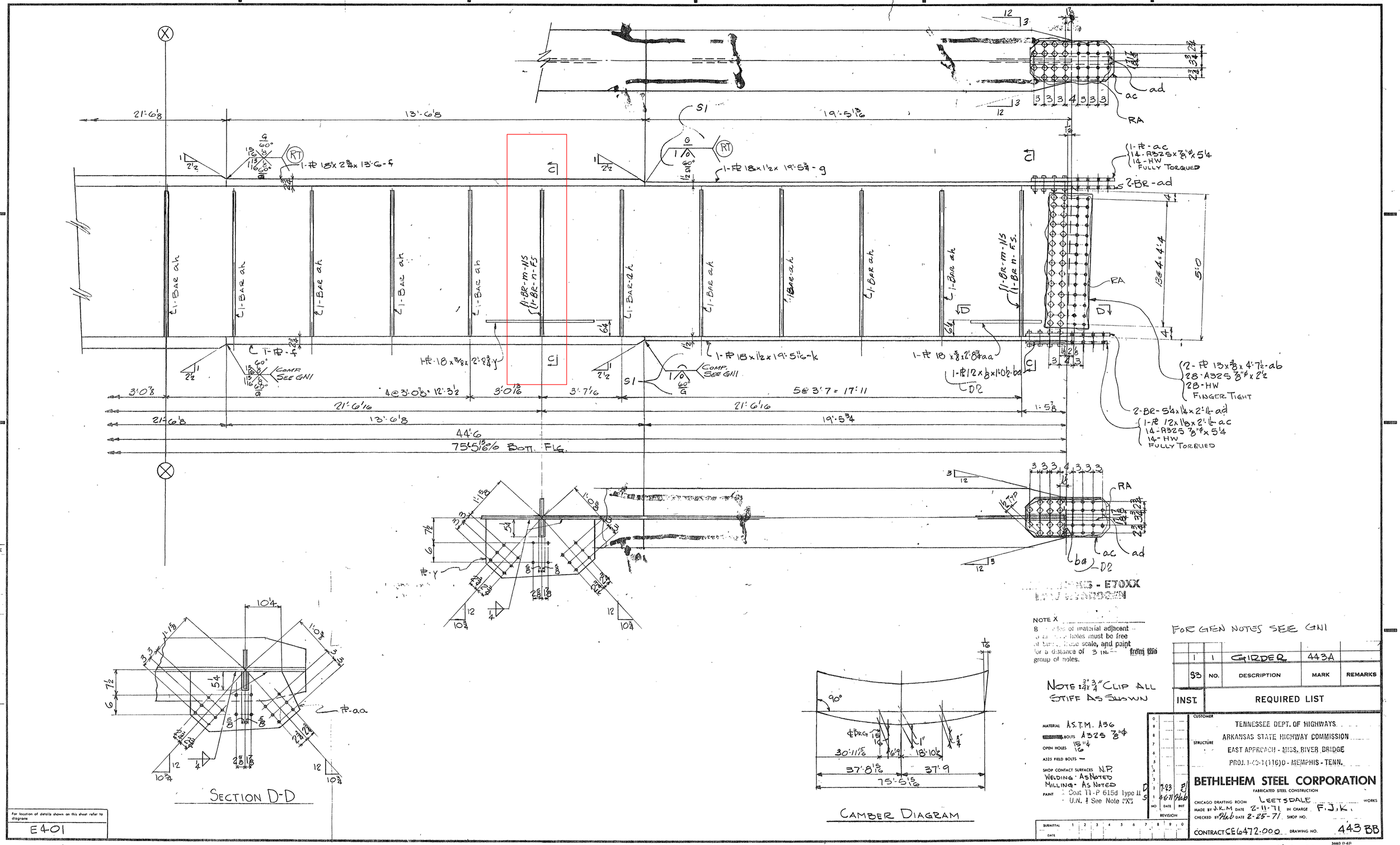
No. 1 — Date 4-6-71 — Init Hab — Revision

Submittal — Date

36663 11-61

MICROFILMED

M-48-57



NOTE X

B[illegible] of material adjacent [illegible] holes must be free of [illegible] scale, and paint for a distance of 3 IN. from the group of holes.

NOTE: 3/4" x 3/4" CLIP ALL STIFF AS SHOWN

FOR GEN NOTES SEE GN1

INST.	S3	NO.	DESCRIPTION	MARK	REMARKS
	1	1	GIRDER	443A	

REQUIRED LIST

MATERIAL A.S.T.M. A36
BOLTS A325 7/8"φ
OPEN HOLES 15/16"φ
A325 FIELD BOLTS —
SHOP CONTACT SURFACES N.P.
WELDING - AS NOTED
MILLING - AS NOTED
PAINT Coat 11-P 615d Type II
U.N. ! See Note "X"

NO	DATE	REVISION
2	7-23	
1	4-6-71	Hab

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

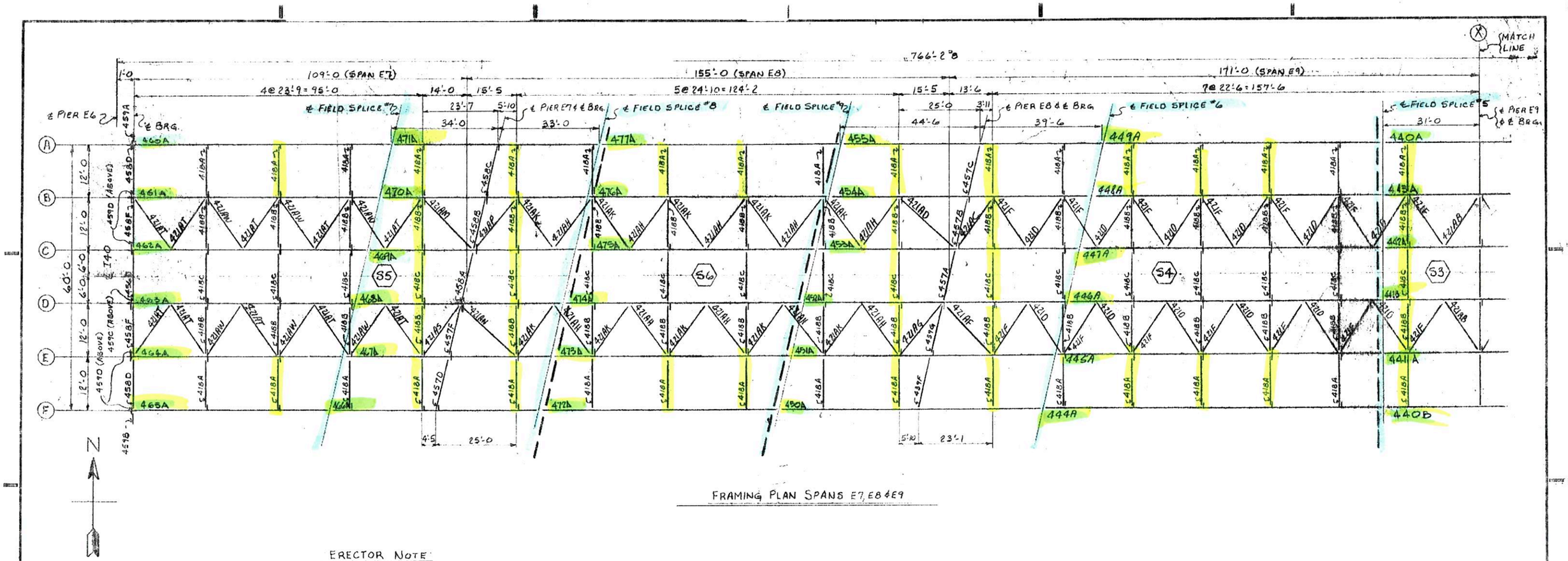
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY J.K.M DATE 2-11-71 IN CHARGE F.J.K.
CHECKED BY Hab DATE 2-25-71 SHOP NO.
CONTRACT CE6472-000 DRAWING NO. 443 BB

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

For location of details shown on this sheet refer to diagrams
E4-01

M-48-58

MICROFILMED



FRAMING PLAN SPANS E7, E8 & E9

ERECTOR NOTE

1. SHIPPING MARKS ARE PAINTED BY THE SHOP ON THE LEFT END OF THE MEMBER AS DETAILED. THE ERECTOR SHALL ERECT THE MEMBER WITH THE MARK IN THE POSITION SHOWN ON THE DIAGRAM. IF MARK IS SHOWN @ CENTER OF MEMBER, THE MEMBER MAY BE TURNED END FOR END.
2. GIRDERS HAVE BEEN ASSEMBLED IN THE SHOP & SPLICES REAMED.
3. ALL SPLICE MAT'L MUST BE REASSEMBLED IN CORRECT POSITION IN FIELD TO INSURE PROPER FIT FOR PROPER ERECTION.
4. ALL FIELD CONNECTIONS TO BE HIGH STRENGTH BOLTS WITH 1-A325 WASHER PLACED UNDER THE HEAD OR NUT WHICH EVER IS TURNED IN TIGHTENING.
5. INSTALLATION SHALL BE PREFORMED BY USING THE TURN OF NUT TIGHTENING METHOD AS PER ARTICLE 2.10.20 (D)(4) OF A.A.S.H.O. BRIDGE SPECIFICATIONS.
6. SEE BOLT LIST FOR SIZE AND LOCATION OF BOLTS.
7. TAPES SHALL BE CALIBRATED AT 60° FAHRENHEIT WITH THE U.S. BUREAU OF STANDARDS.
8. S1 ALL SPLICE BOLTS INSTALLED IN SHOP ARE "FINGER" TIGHTENED IN THE SHOP FOR SHIPPING PURPOSES ONLY. AFTER ERECTION, (ALL FIELD SPLICE) S1 BOLTS ARE TO BE TORQUED AS PER NOTE 5 ABOVE.

WORK THIS SHEET WITH SHEET E402

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

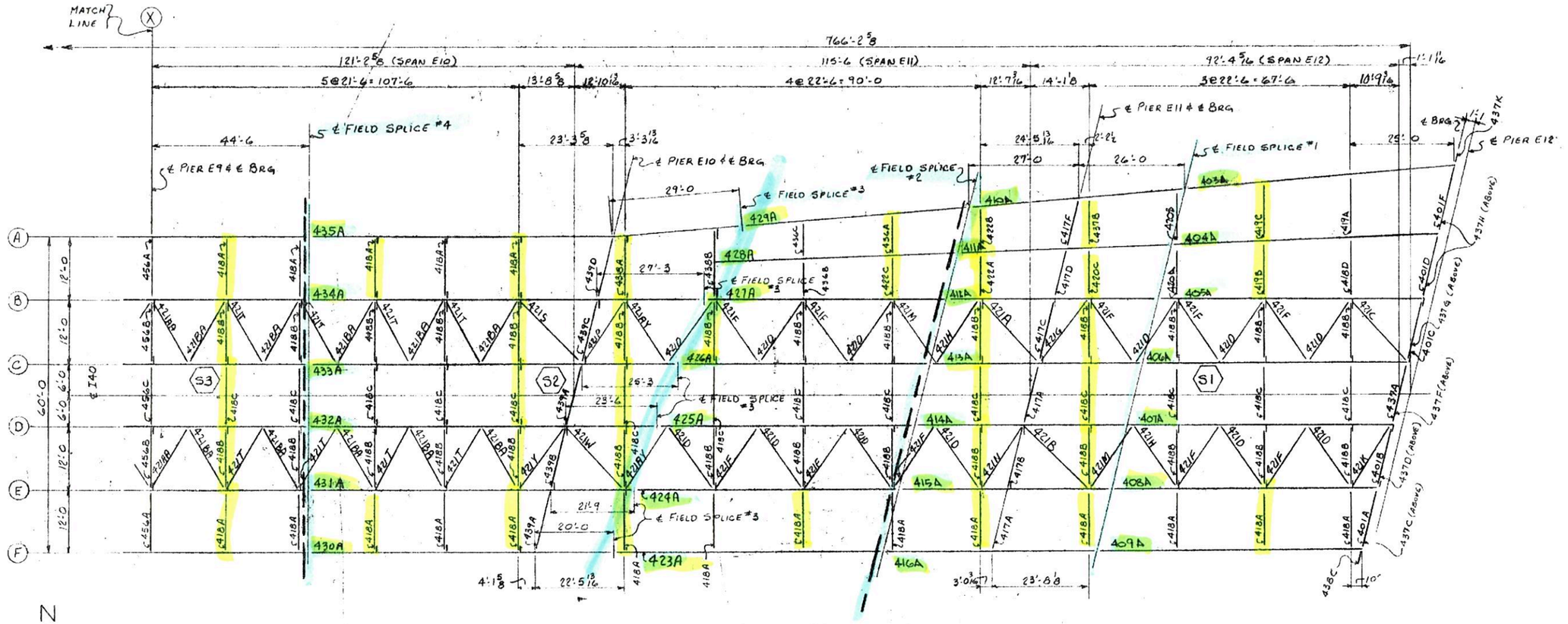
NO	DATE	REVISION
1	4-21	K

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO/ORLEANS ROOM LEETSPAN
MADE IN LTN DATE 1-7-70 IN CHARGE F.J.K.
CHECKED BY K DATE SHOP NO.
CONTRACT CE6472-000 DRAWING NO. E401

M-48-2

MICROFILMED



FRAMING PLAN SPANS E10, E11 & E12

WORK THIS SHEET WITH SHEET E401

TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(136)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM — LEETSDALE, PENNA.
MADE BY ATW DATE 6-7-71 IN CHARGE FJ-K
CHECKED BY K DATE — SHOP NO.
CONTRACT CS 6472-000 DRAWING NO. E402

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SNUG CONTACT SURFACES
PAINT

NO.	DATE	REVISION
1		
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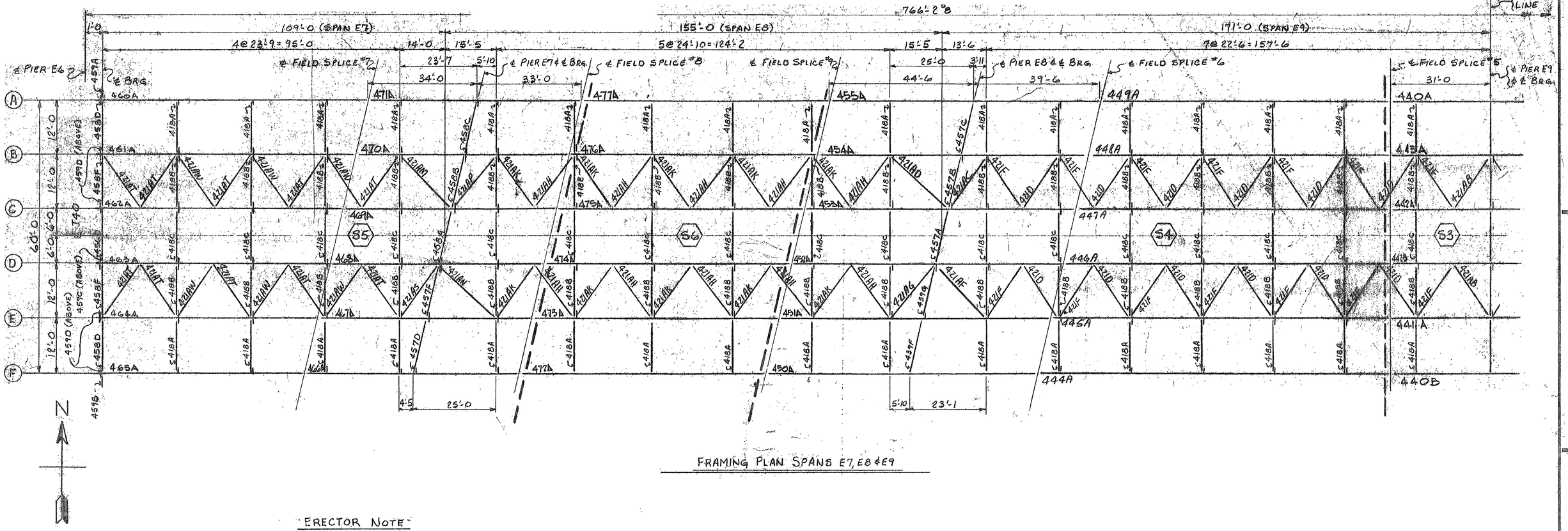
SUBMITTED
DATE

MODIFIED

For location of details shown on this sheet refer to diagram.

A-18 3



FRAMING PLAN SPANS E7, E8 & E9

ERECTOR NOTE

1. SHIPPING MARKS ARE PAINTED BY THE SHOP ON THE LEFT END OF THE MEMBER AS DETAILED. THE ERECTOR SHALL ERECT THE MEMBER WITH THE MARK IN THE POSITION SHOWN ON THE DIAGRAM. IF MARK IS SHOWN @ CENTER OF MEMBER, THE MEMBER MAY BE TURNED END FOR END.
2. GIRDERS HAVE BEEN ASSEMBLED IN THE SHOP & SPLICES REAMED.
3. ALL SPLICE MAT'L. MUST BE REASSEMBLED IN CORRECT POSITION IN FIELD TO INSURE PROPER FIT FOR PROPER ERECTION.
4. ALL FIELD CONNECTIONS TO BE HIGH STRENGTH BOLTS WITH 1-A325 WASHER PLACED UNDER THE HEAD OR NUT WHICH EVER IS TURNED IN TIGHTENING.
5. INSTALLATION SHALL BE PREFORMED BY USING THE TURN OF NUT TIGHTENING METHOD AS PER ARTICLE 2.10.20 (D)(4) OF A.A.S.H.O. BRIDGE SPECIFICATIONS.
6. SEE BOLT LIST FOR SIZE AND LOCATION OF BOLTS.
7. TAPES SHALL BE CALIBRATED AT 60° FAHRENHEIT WITH THE U.S. BUREAU OF STANDARDS.
8. S1 ALL SPLICE BOLTS INSTALLED IN SHOP ARE "FINGER" TIGHTENED IN THE SHOP FOR SHIPPING PURPOSES ONLY. AFTER ERECTION, ALL FIELD SPLICE S1 BOLTS ARE TO BE TORQUED AS PER NOTE 5 ABOVE.

WORK THIS SHEET WITH SHEET E402

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

NO.	DATE	INIT.
1	4-21	K

REVISION

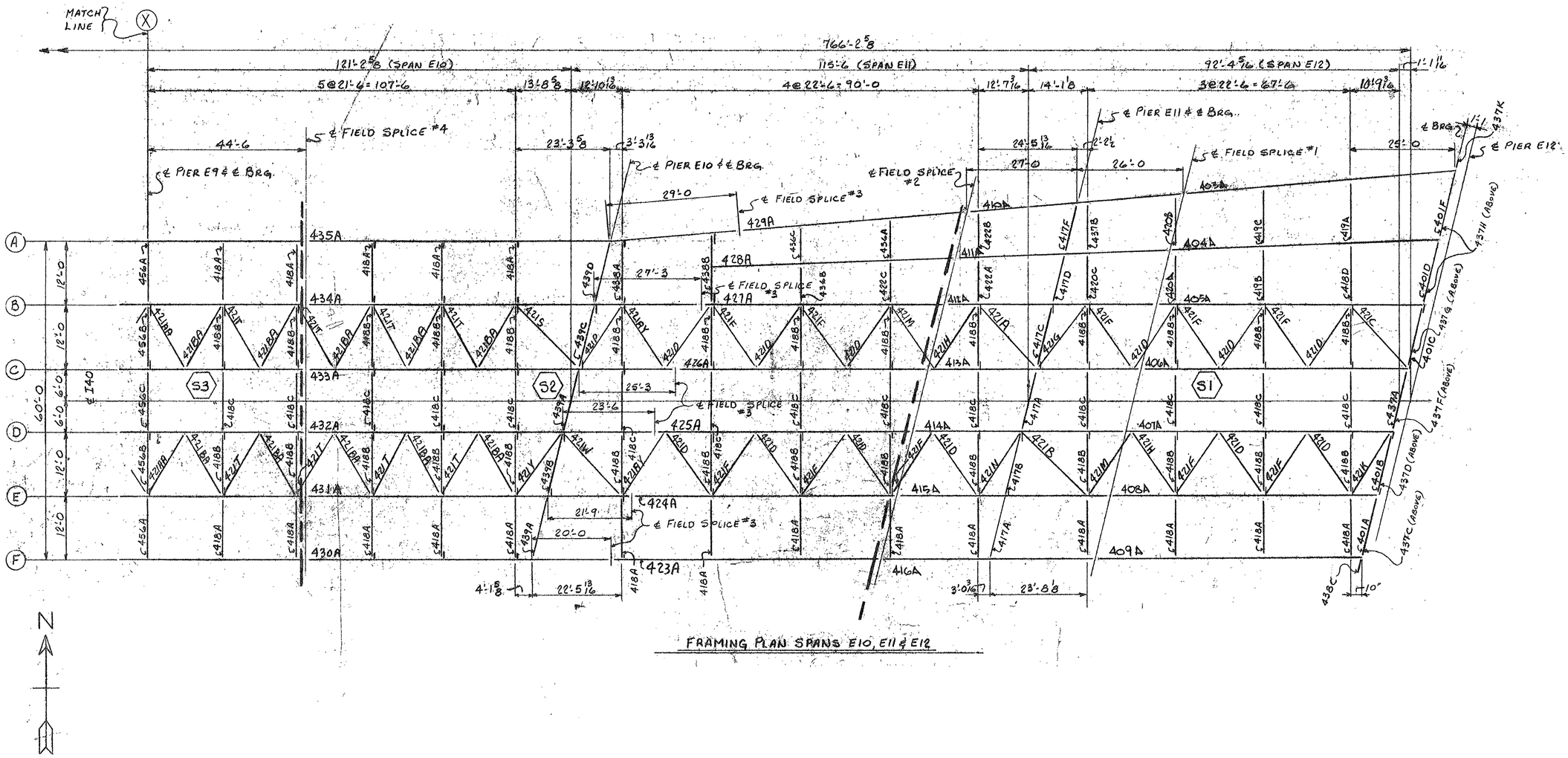
CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY LTZU DATE 1-7-70 IN CHARGE F.J.K.
CHECKED BY DATE SHOP NO.
CONTRACT CEG472-000 DRAWING NO. E401

For location of details shown on this sheet refer to diagrams.

M-48-2

MICROFILMED



FRAMING PLAN SPANS E10, E11 & E12

WORK THIS SHEET WITH SHEET E401

MATERIAL
RIVETS OR BOLTS
OPEN HOLES
A325 FIELD BOLTS
SHOP CONTACT SURFACES
PAINT

NO.	DATE	INIT.
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REVISION

SUBMITTAL 1 2 3 4 5 6 7 8 9 0
DATE

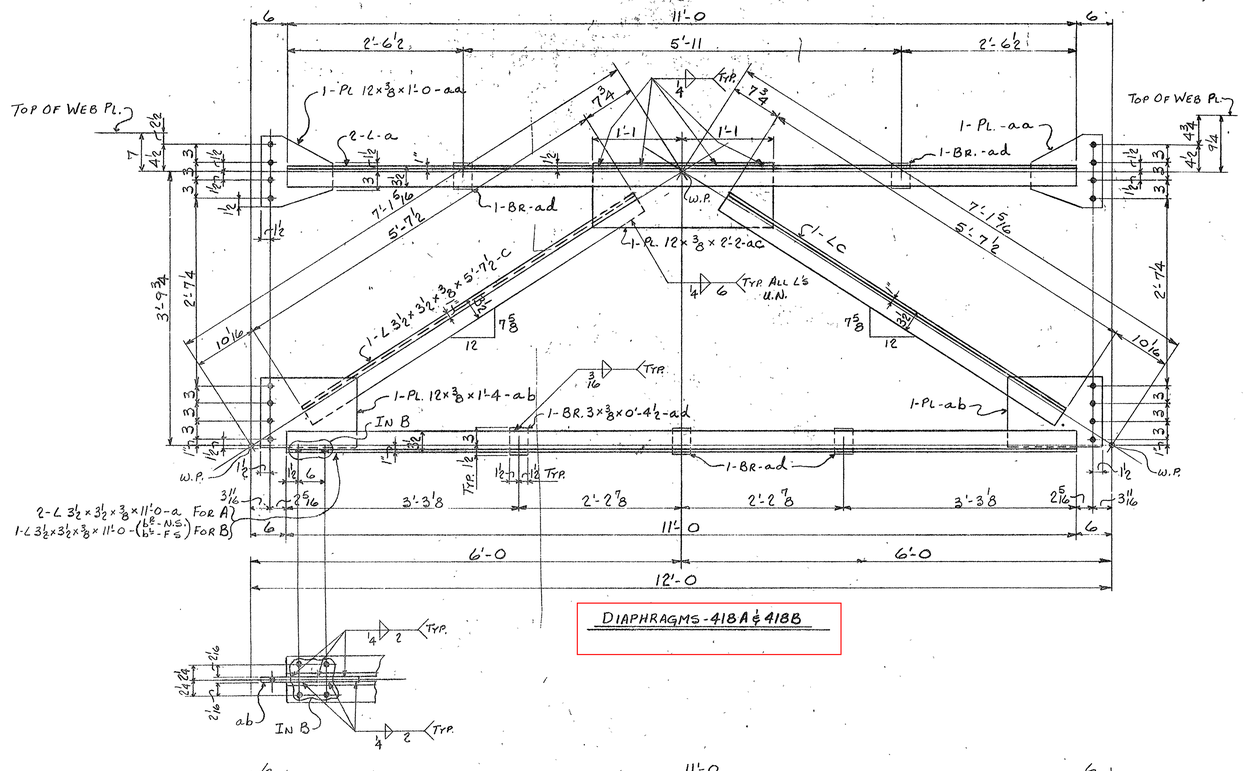
CUSTOMER
TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(136)0 - MEMPHIS - TENN.

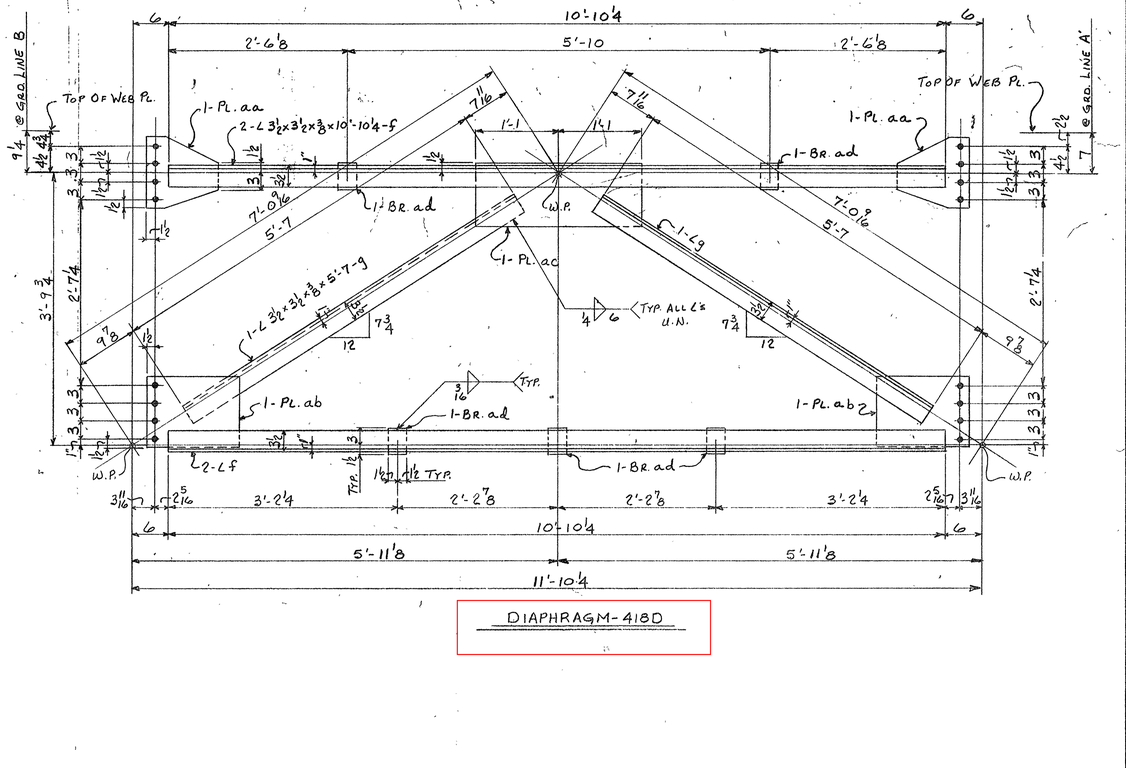
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY [illegible] DATE 1-17-71 IN CHARGE F.J.K.
CHECKED BY [illegible] DATE SHOP NO.
CONTRACT CE 6472-000 DRAWING NO. E402

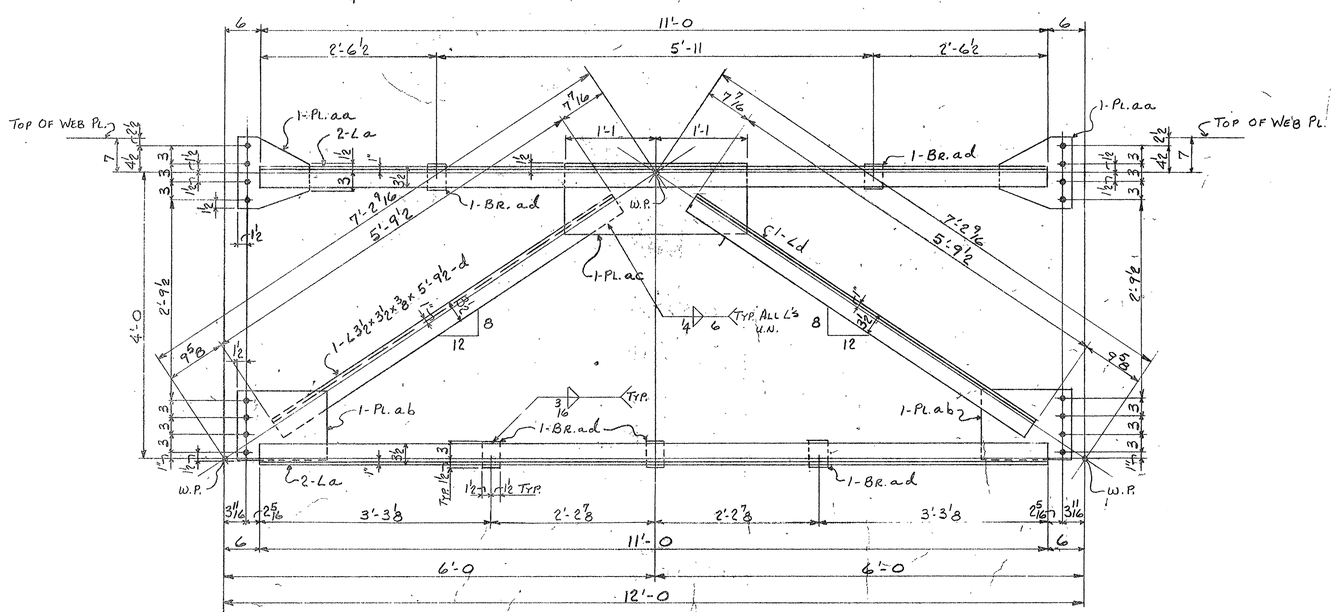
For location of details shown on this sheet refer to diagrams.

MICROFILMED

M-48-3







INSTALLMENTS						REQUIRED LIST			
S6	S5	S4	S3	S2	S1	MARK	QTY.	DESCRIPTION	REMARKS
7	10	15	6	10	5	418A	53	DIAPHRAGMS	
7	10	15	6	14	10	418B	62		
3	5	8	3	7	5	418C	31		
					1	418D	1		

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the edge of hole.

E70XX - ELECTRODES LOW HYDROGEN
MATERIAL ~ ASTM-A36
RIVETS OR BOLTS ~
OPEN HOLES ~ 15/16"ø
A325 FIELD BOLTS ~
SHOP CONTACT SURFACES ~ NO PAINT
WELD ~ AS NOTED
PAINT ~ 1 Coat TT-P 615d Type I, U.N. - See Note "X"

FOR GEN. NOTES SEE SHT. GN1

NO.	DATE	REVISION
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1		

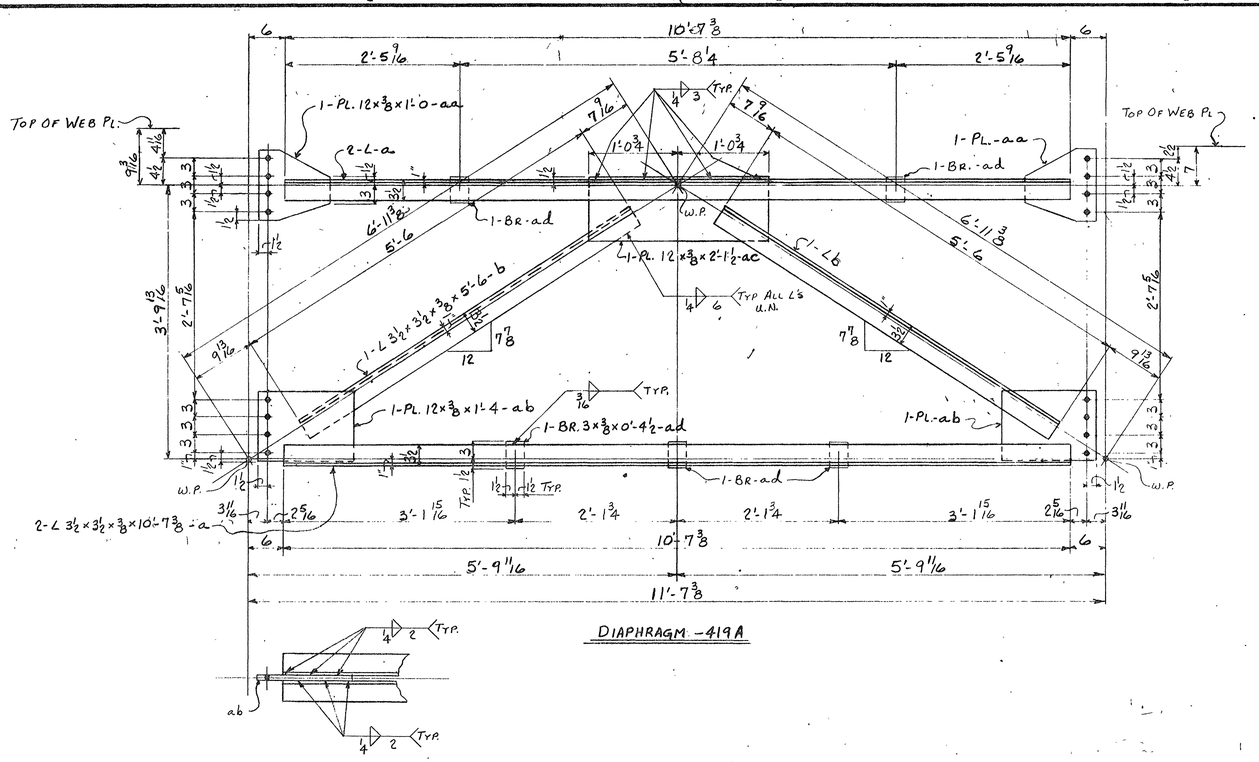
CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY LTZ DATE 1-20-71 IN CHARGE FJK
CHECKED BY LE DATE 2/19/71 SHOP NO.
CONTRACT CE 6472-000 DRAWING NO. 418

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

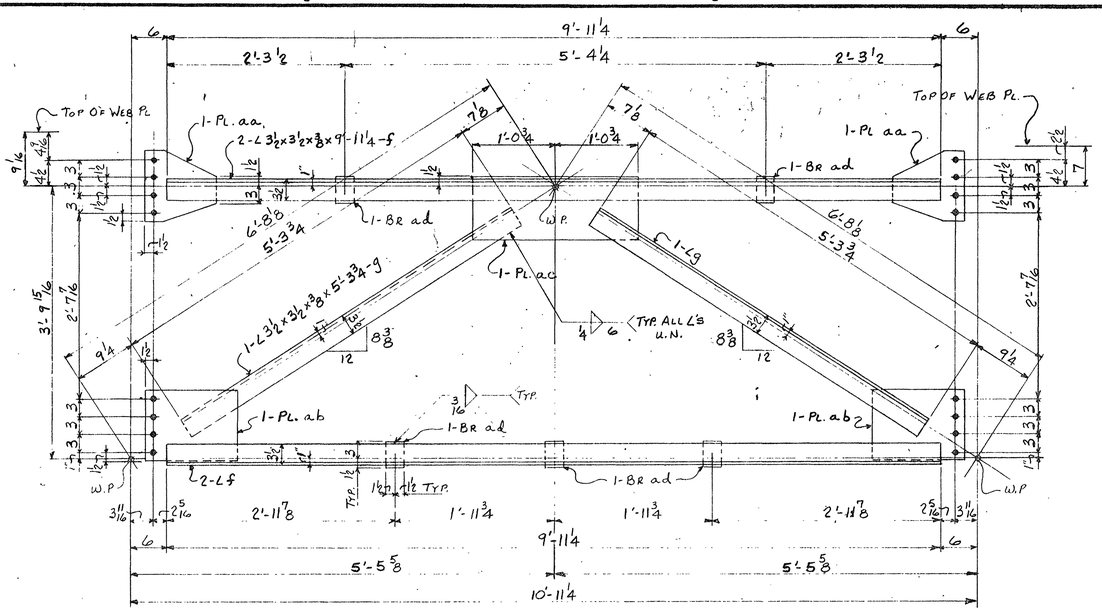
For location of details shown on this sheet refer to diagram.
E401 & E402

MICROFILMED

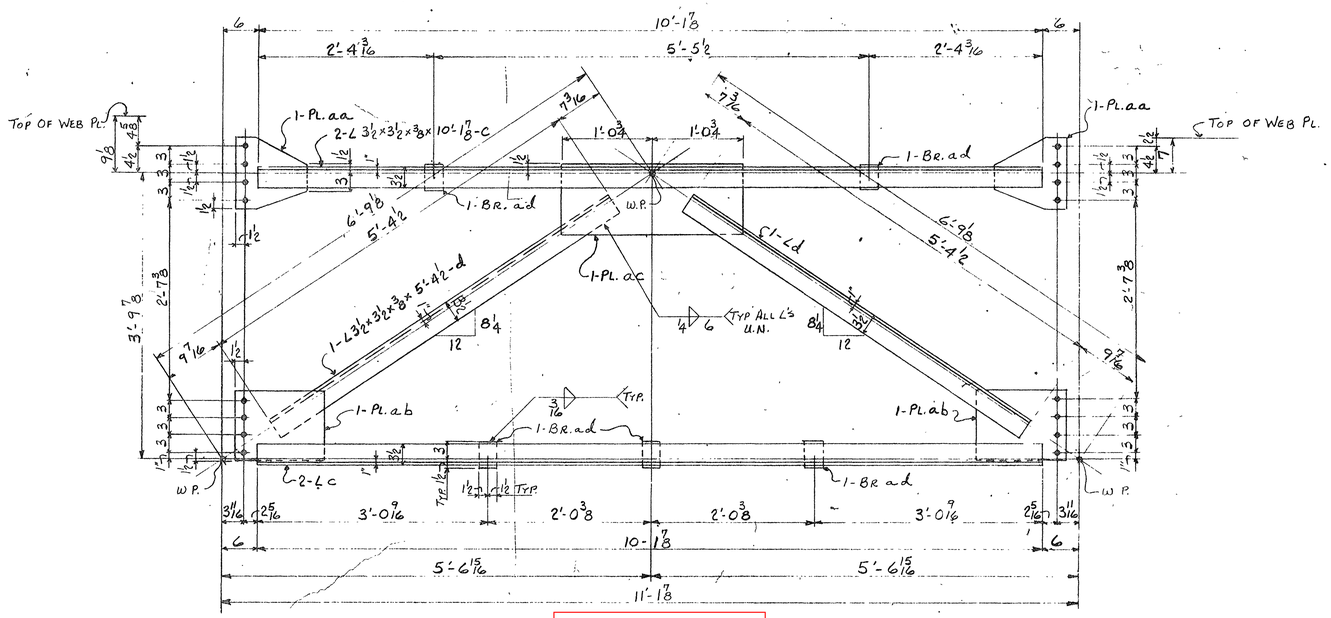
M-48-23



DIAPHRAGM-419A



DIAPHRAGM-419C



DIAPHRAGM-419B

INSTALLMENTS						REQUIRED LIST			
S6	S5	S4	S3	S2	S1	MARK	QTY.	DESCRIPTION	REMARKS
					1	419A	1	DIAPHRAGMS	
					1	419B	1		
					1	419C	1		

FOR GENERAL NOTES SEE SHT. GN1

NOTE X
Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes.

E70XX-ELECTRODES
LOW HYDROGEN
MATERIAL ~ ASTM-A36
RIVETS OR BOLTS ~
OPEN HOLES ~ 15"ø 16
A325 FIELD BOLTS ~
SHOP CONTACT SURFACES ~ NO PAINT
WELD ~ AS NOTED
PAINT 1 Coat [illegible]-P 615d Type II U.N. See Note "X"A

NO	DATE	INIT
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REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY LTW DATE 1-20-71 IN CHARGE FJK
CHECKED BY LE DATE 2/19/71 SHOP NO.
CONTRACT CE 6472-000 DRAWING NO. 419

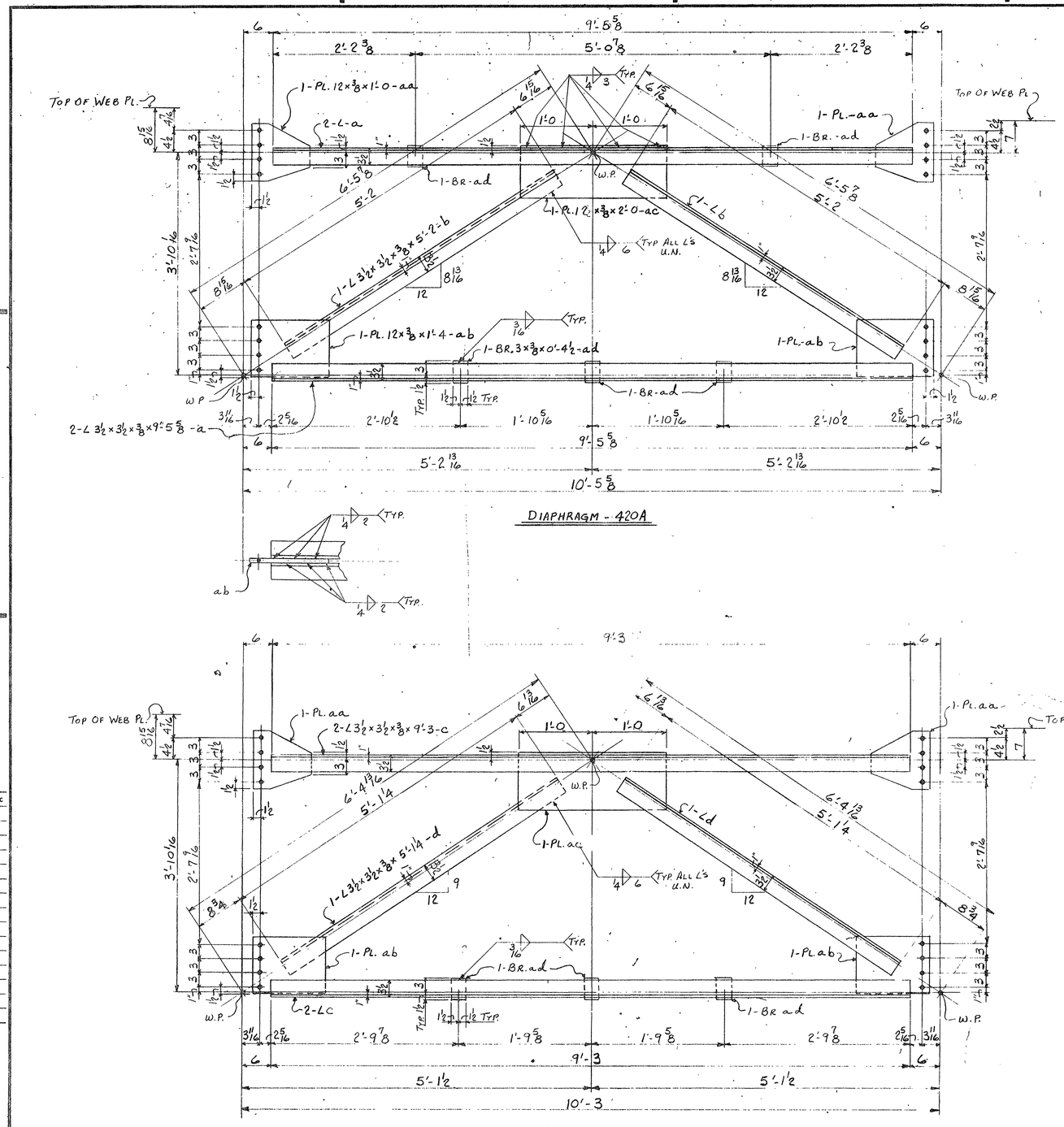
For location of details shown on this sheet refer to diagrams.

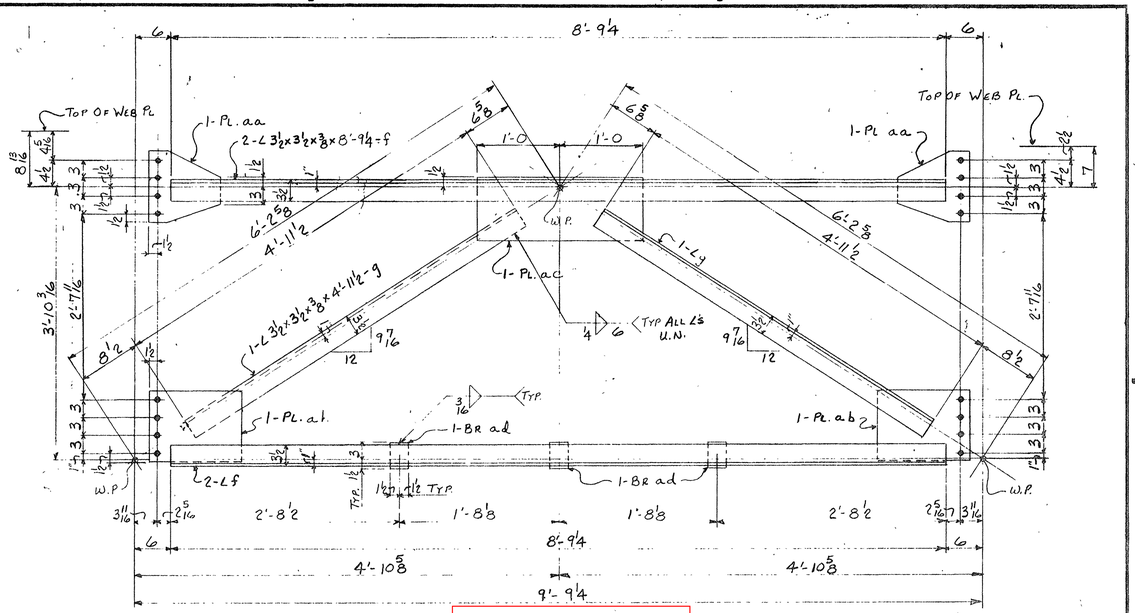
E402

35453 (Rev.A 1-65)

M-48-24

MICROFILMED





INSTALLMENTS						REQUIRED LIST			
S6	S5	S4	S3	S2	S1	MARK	QTY.	DESCRIPTION	REMARKS
					1	420A	1	DIAPHRAGMS	
					1	420B	1		
					1	420C	1		

FOR GENERAL NOTES SEE SHT GN1

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the [illegible] of holes.

E70XX - ELECTRODES LOW HYDROGEN

MATERIAL ~ ASTM - A36

RIVETS OR BOLTS ~

OPEN HOLES ~ 15/16

A325 FIELD BOLTS ~

SHOP CONTACT SURFACES ~ No PAINT

WELD ~ AS NOTED

PAINT ~ 1 Coat TT-P 615d Type II U.N. - See Note "X"

NO	DATE	INIT.
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REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS

STRUCTURE: ARKANSAS STATE HIGHWAY COMMISSION
EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS

MADE BY LTW DATE 1-20-71 IN CHARGE FJK

CHECKED BY LE DATE 2/19/71 SHOP NO.

CONTRACT CE 6472-000 DRAWING NO. 420

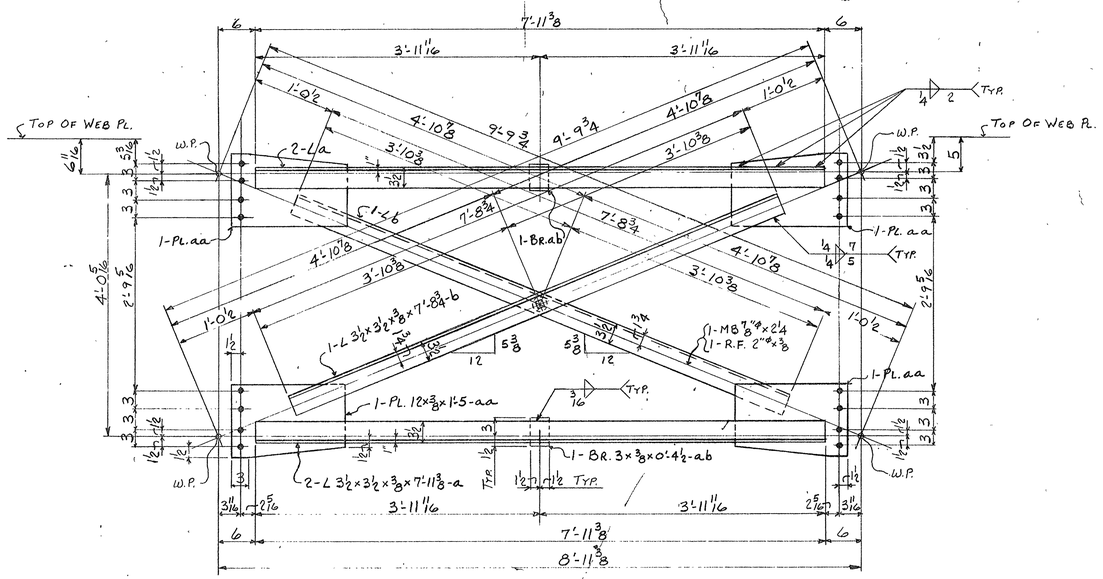
35455 (Rev.A 1-65)

M-48-25

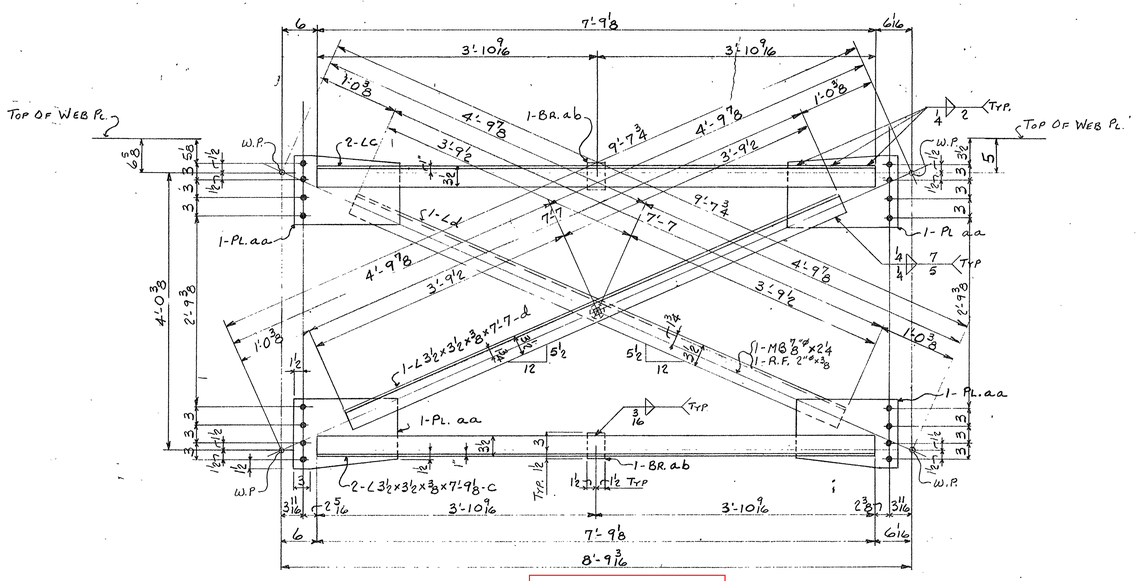
For location of details shown on this sheet refer to diagrams.

E402

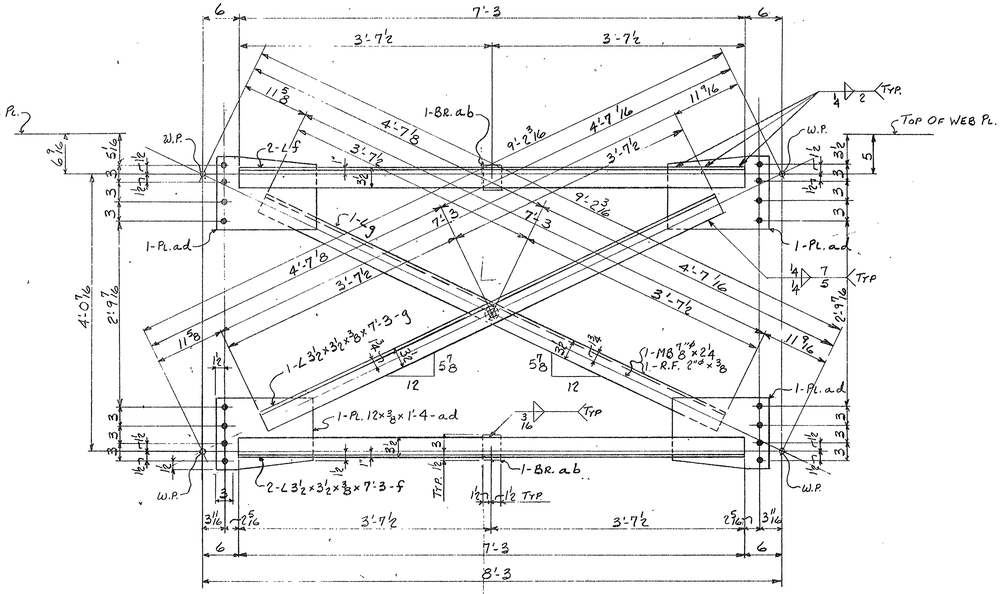
MICROFILMED



DIAPHRAGM-422A



DIAPHRAGM-422B



DIAPHRAGMS-422C

INSTALLMENTS						REQUIRED LIST			
S6	S5	S4	S3	S2	S1	MARK	QTY.	DESCRIPTION	REMARKS
					1	422A	1	DIAPHRAGM	
					1	422B	1		
				1		422C	1		

NOTE X

Both sides of material adjacent to all open holes must be free of burrs, loose scale, and paint for a distance of 3" from the group of holes

FOR GENERAL NOTES SEE SHT. GN1

E70XX ELECTRODES
LOW HYDROGEN

MATERIAL ~ ASTM-A36

RIVETS OR BOLTS ~

OPEN HOLES ~ 15/16"φ

A325 FIELD BOLTS ~

SHOP CONTACT SURFACES ~ NO PAINT

WELD - AS NOTED

PAINT ~ 1 Coat TT-P 615d Type II
U.N. ¦ See Note "X"

NO.	DATE	REVISION
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SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION

STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

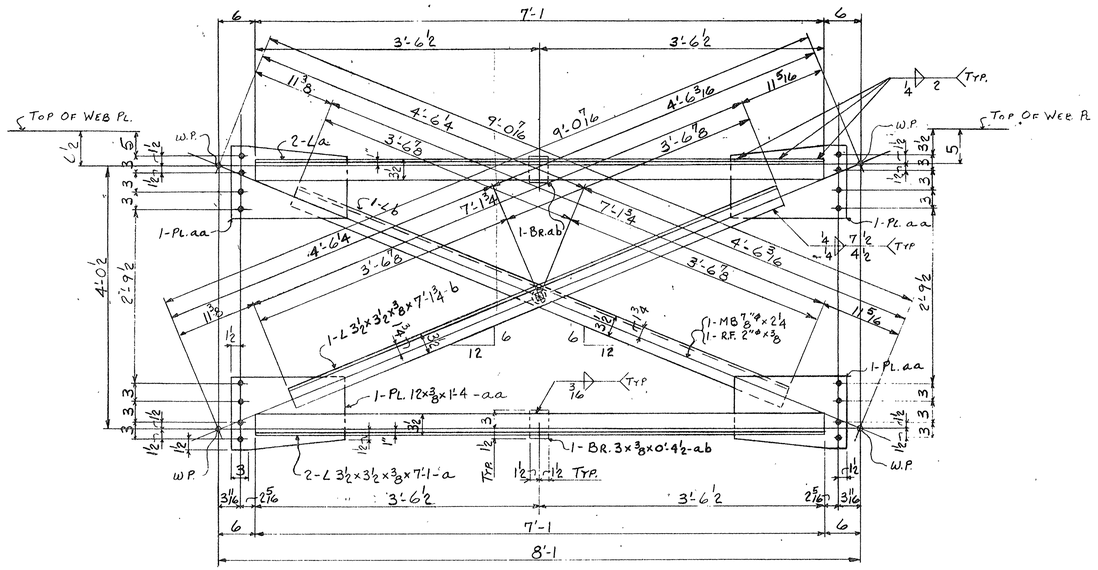
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY LTW DATE 1-21-70 IN CHARGE F.J.K.
CHECKED BY LE DATE 2/23/71 SHOP NO.
CONTRACT CE-6472-000 DRAWING NO. 422

For location of details shown on this sheet refer to diagrams.

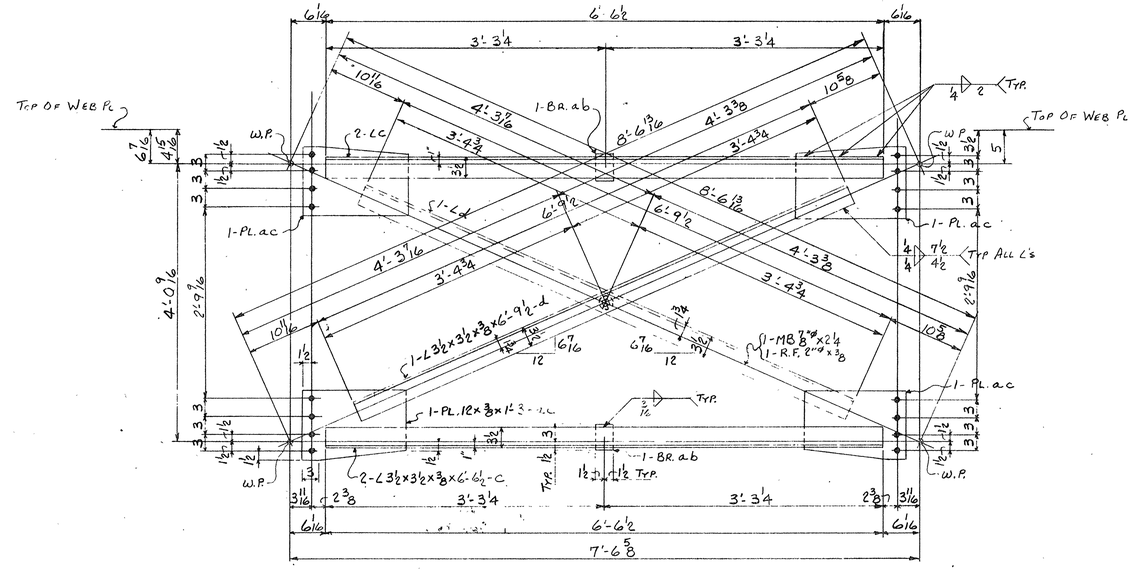
E402

35453 (Rev.A 1-63)

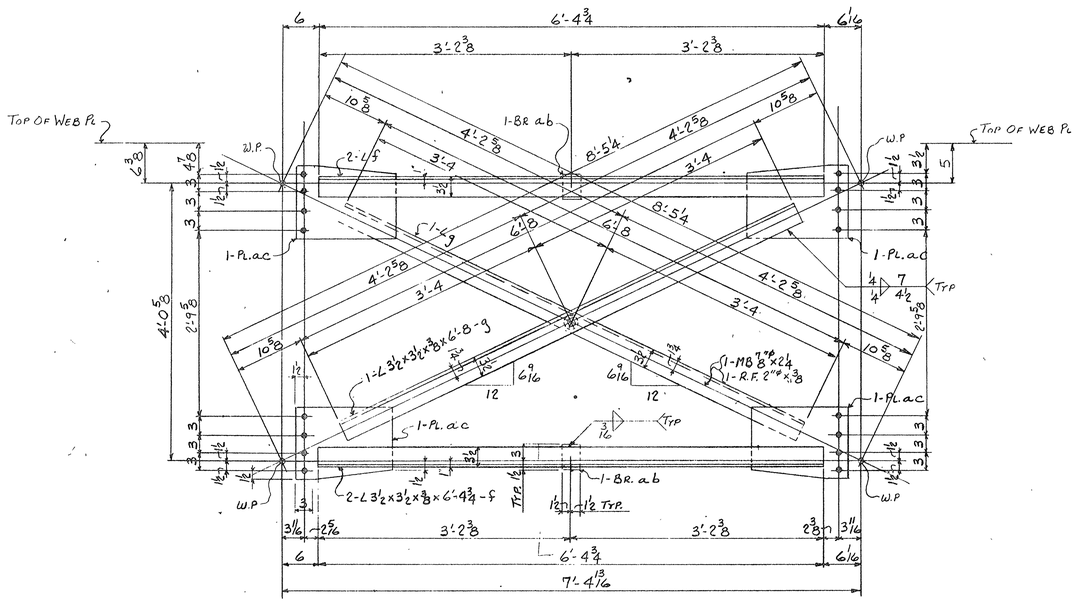
M-48-27



DIAPHRAGM-436A



DIAPHRAGM-436B



DIAPHRAGMS-436C

INSTALLMENTS						REQUIRED LIST			
S6	S5	S4	S3	S2	S1	MARK	QTY.	DESCRIPTION	REMARKS
				1		436A	1	DIAPHRAGM	
				1		436B	1		
				1		436C	1		

NOTE:
Both sides of [illegible] all [illegible] must be [illegible] scale, and paint for a distance of 3" from the group of holes.

FOR GENERAL NOTES SEE SHT. GN1

E70XX ELECTRODES
LOW HYDROGEN

MATERIAL ~ ASTM-A36
RIVETS OR BOLTS ~
OPEN HOLES ~ 15/16"φ
A325 FIELD BOLTS ~
SHOP CONTACT SURFACES ~ NO PAINT
WELD - AS NOTED
PAINT ~ 1 Coat TT-P 615d Type [illegible] U.N. - See Note "X"

NO	DATE	RMT
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REVISION

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

CUSTOMER: TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: EAST APPROACH - MISS. RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY LTW DATE 2-4-71 IN CHARGE F.J.K.
CHECKED BY LE DATE 2/26/71 SHOP NO.
CONTRACT CE-6472-000 DRAWING NO. 436

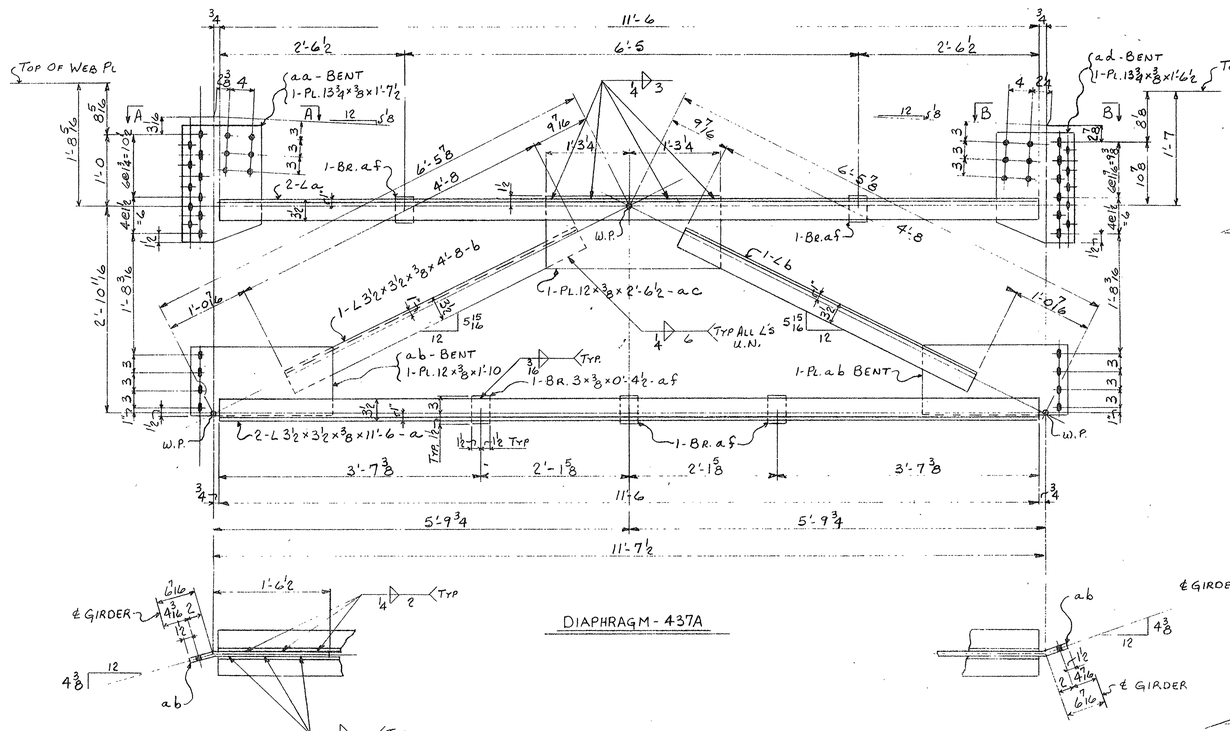
35453 (Rev A 1-65)

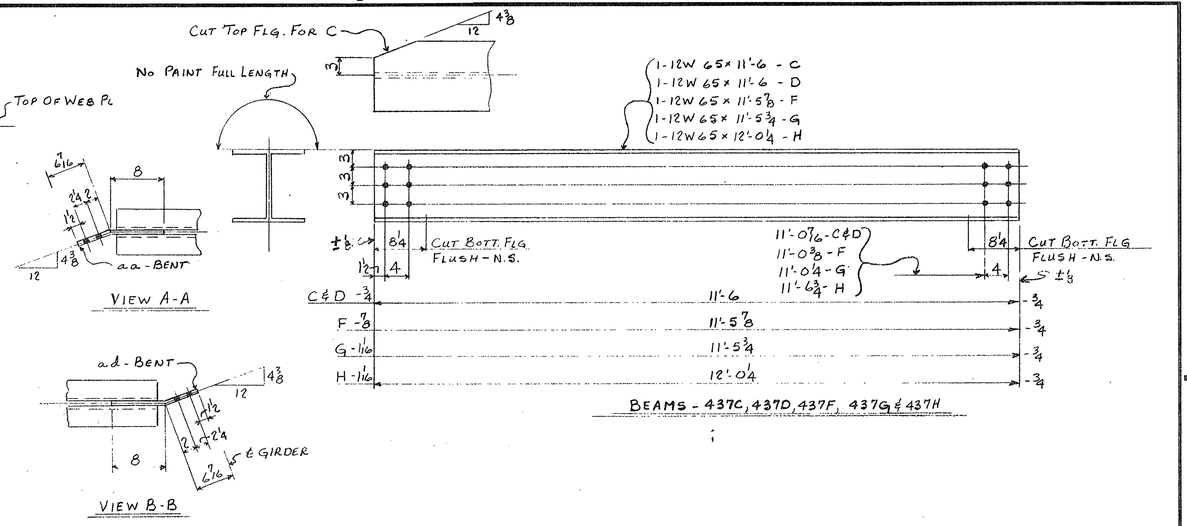
For location of details shown on this sheet refer to diagrams.

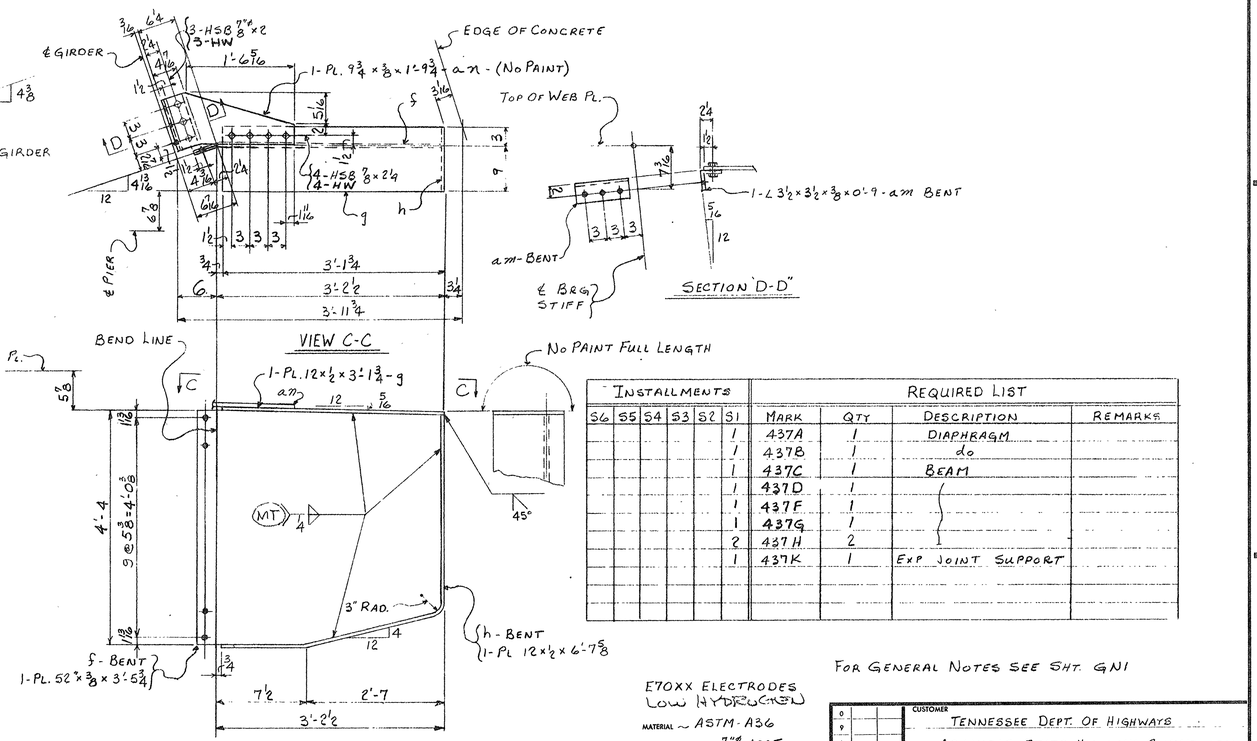
E402

MICROFILMED

M-48-47







INSTALLMENTS						REQUIRED LIST			
S6	S5	S4	S3	S2	S1	MARK	QTY	DESCRIPTION	REMARKS
					1	437A	1	DIAPHRAGM	
					1	437B	1	do	
					1	437C	1	BEAM	
					1	437D	1		
					1	437F	1		
					1	437G	1		
					2	437H	2		
					1	437K	1	EXP. JOINT SUPPORT	

FOR GENERAL NOTES SEE SHT. GN1

E70XX ELECTRODES
LOW HYDROGEN

MATERIAL ~ ASTM-A36
RIVETS OR BOLTS 7/8" A325
OPEN HOLES ~ 15/16"ø
A325 FIELD BOLTS ~
SHOP CONTACT SURFACES ~ NO PAINT
WELD ~ AS NOTED
PAINT ~ 1 Coat IOZ Std type U.N. See Note M1.

Blast clean and paint for a distance of 3" from the

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO.	DATE	INIT.	REVISION
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CUSTOMER TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE EAST APPROACH - MISS RIVER BRIDGE
PROJ. I-40-1(116)0 - MEMPHIS - TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

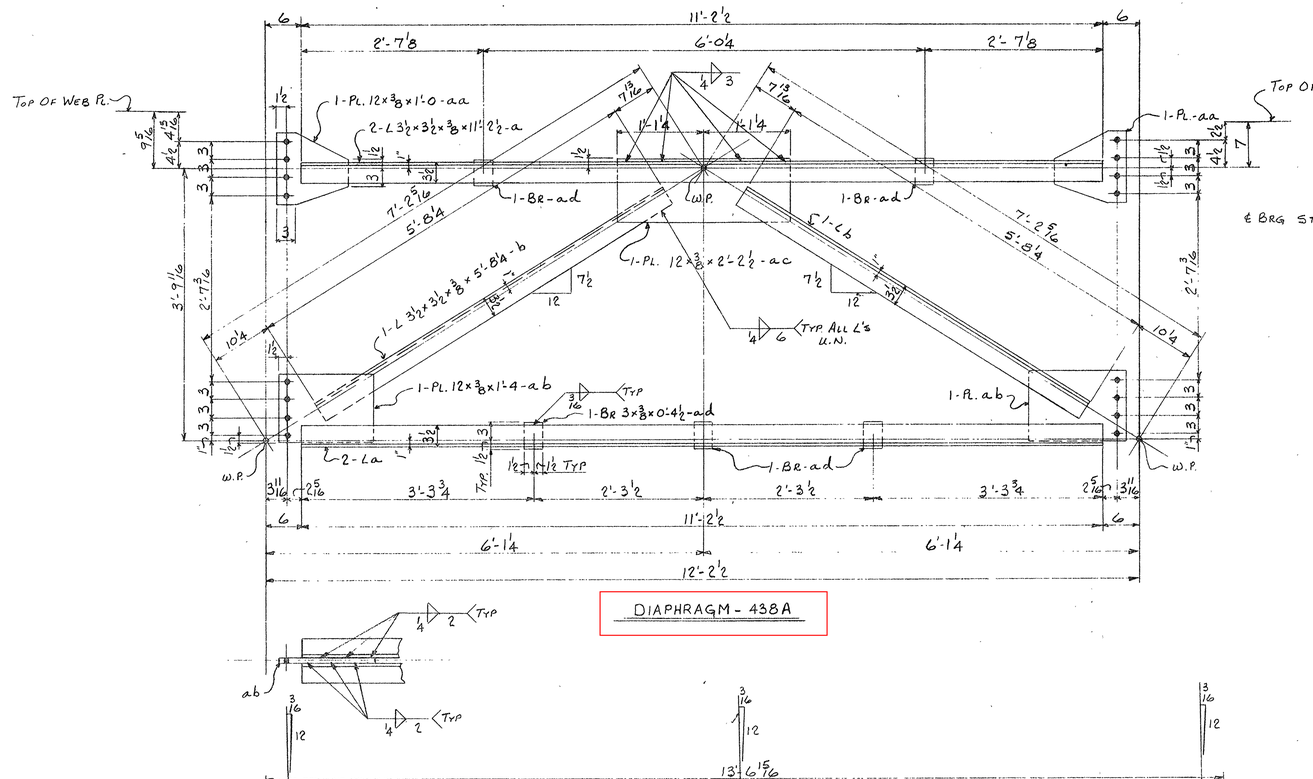
CHICAGO DRAFTING ROOM LEETSDALE WORKS
MADE BY LTW DATE 1-28-71 IN CHARGE F.J.K.
CHECKED BY LE DATE 2/23/71 SHOP NO.
CONTRACT CE 6472-000 DRAWING NO. 437

For location of details shown on this sheet refer to diagrams

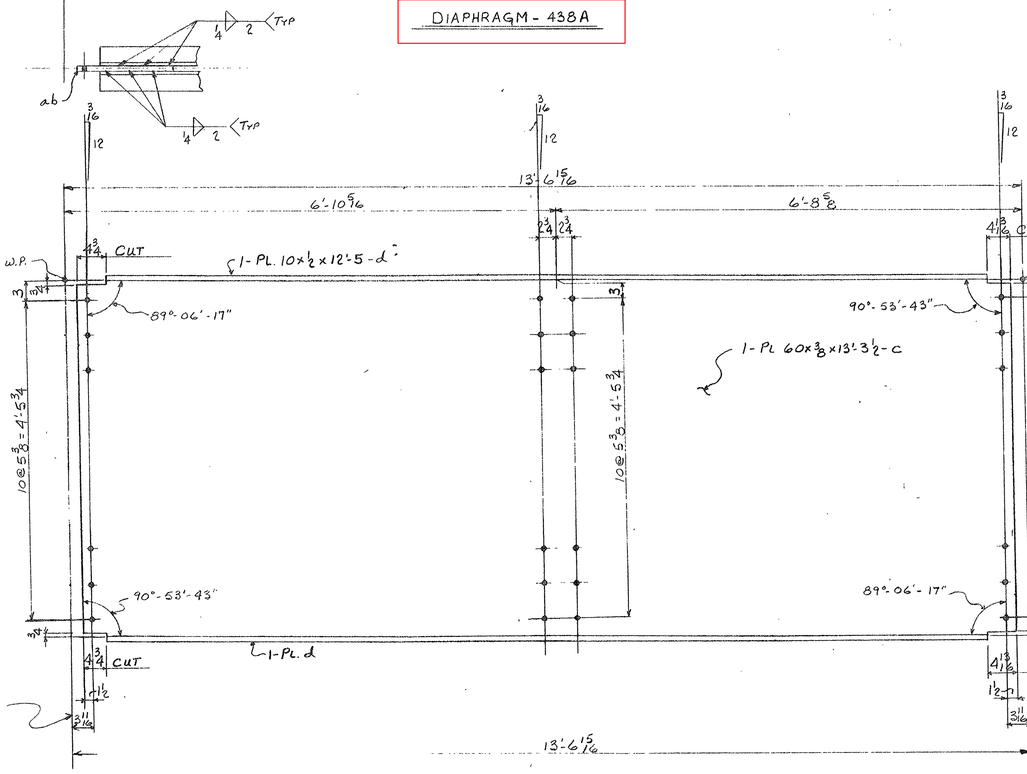
E402

M-48-48

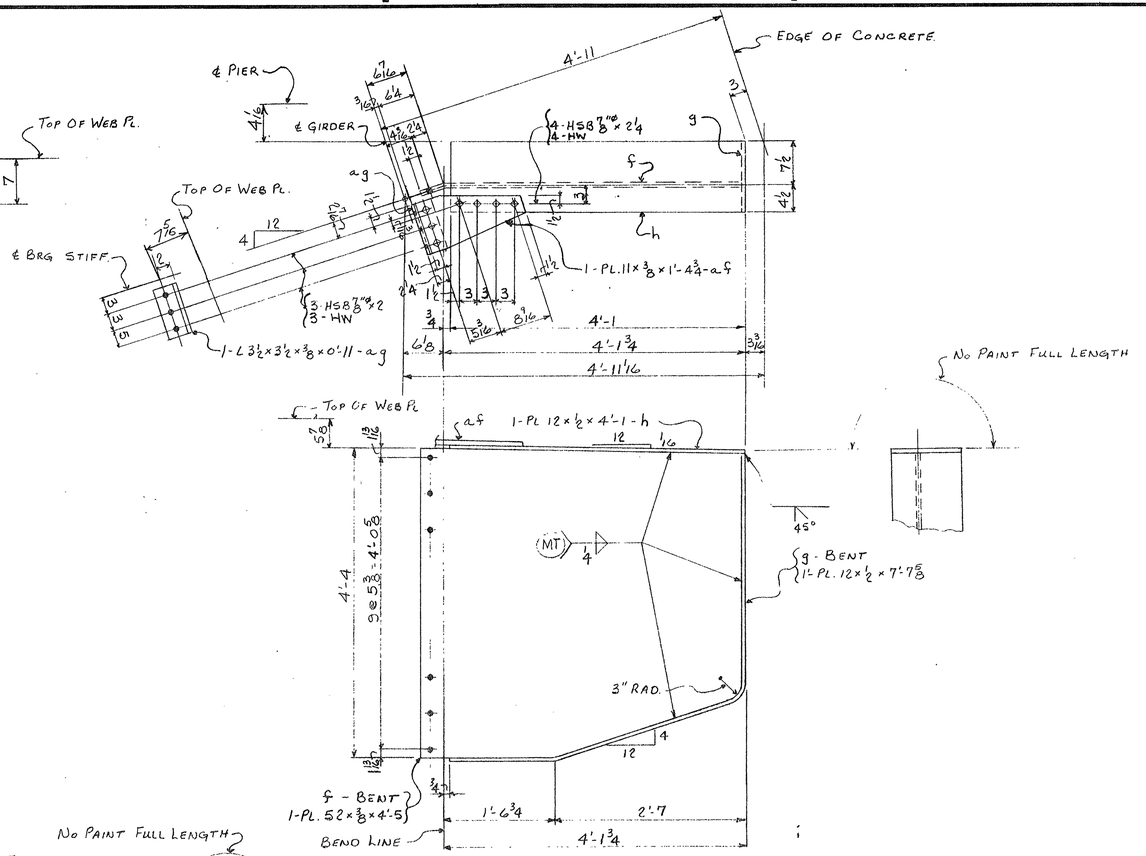
MICROFILMED



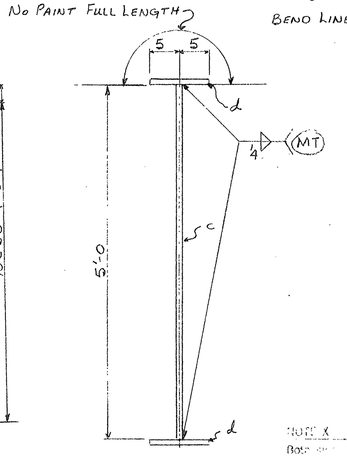
DIAPHRAGM - 438A



DIAPHRAGM - 438B



EXPANSION JOINT SUPPORT - 438C



INSTALLMENTS						REQUIRED LIST			
S6	S5	S4	S3	S2	S1	MARK	QTY.	DESCRIPTION	REMARKS
				1		438A	1	DIAPHRAGM	
				1		438B	1	do	
					1	438C	1	EXP JOINT SUPPORT	

NOTE X
Base metal under the [illegible] to be welded shall be preheated to a minimum temperature of 300° F. for a distance of 3 inches from the point of welding.

E70XX ELECTRODES
LOW HYDROGEN

MATERIAL ~ ASTM - A36
RIVETS OR BOLTS ~ 7/8" A325
OPEN HOLES ~ 15/16"
A325 FIELD BOLTS ~
SHOP CONTACT SURFACES ~ NO PAINT
WELD ~ AS NOTED
PAINT ~ 1 Coat Zinc Rich Type II (A.N. 5 See Note "X")

FOR GENERAL NOTES SEE SHT. GN1

For location of details shown on this sheet refer to diagrams
E432

SUBMITTAL	1	2	3	4	5	6	7	8	9	0
DATE										

NO	DATE	INIT.
REVISION		

CUSTOMER TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISION
STRUCTURE EAST APPROACH - MISS RIVER BRIDGE
PROJ I40-1(116)0 - MEMPHIS TENN.

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

CHICAGO DRAFTING ROOM _____ LEETSDALE WORKS
MADE BY LTZJ DATE _____ IN CHARGE FJK
CHECKED BY LE DATE 2/23/71 SHOP NO. _____
CONTRACT CE6472-000 DRAWING NO. 438

26663 (1-68)

11-18-69

MICROFILMED

328'-6 32/32 E/L BRG ON GRADE

6 Spas. @ 23'-6 7/8 = 141'-5 4

Diaphragm Line See Section AB

SEE DETAIL T (DWG E504)

330'-0 32/32 E/L BRG ON GRADE

SEE DETAIL S DWG E504

Continued on Sh E503

GA1 GA2 GA3 GA4

NORTH GIRDER INST. G1A ; SOUTH GIRDER INST. G1B

FLOORBEAM & BRACING INST. G1C

STRINGER & STRINGER DIAPHRAGM INST. G1S

NORTH GIRDER INST. G2A ; SOUTH GIRDER INST. G2B

FLOORBEAM & BRACING INST. G2C

STRINGER & STRINGER DIAPHRAGM INST. G2S

FRAMING PLAN

SPAN W28

FLOORBEAM & BRACING INST. G1C

SPAN W29

FLOORBEAM & BRACING INST. G2C

12 Spas. @ 23'-6 7/8 = 282'-10 1/2

12 Spas. @ 23'-6 7/8 = 282'-10 1/2

LATERAL BRACING PLAN

"ERECTOR NOTE"

SLOTTED HOLES HAVE BEEN PROVIDED IN STRINGER BOTTOM FLANGE FOR CONNECTION TO FLOOR BEAMS & EXTENSIONS AT PIER 28. TORQUE A325 (HIGH STRENGTH BOLTS) FULLY WITH ONE WASHER UNDER NUT AND ONE WASHER UNDER HEAD AFTER EXPANSION DAM HAS BEEN SET AND CONCRETE DECK HAS BEEN POURED.

SECTION AA

Diaphragm placement (As shown) Typ.

NOTE:
A325 BOLTS FINGER TIGHTENED IN SHOP. TORQUE FULLY IN FIELD AFTER FULL BEARING AGAINST THE GRD WEB. TO OBTAIN THIS BEARING IT MAY BE NECESSARY TO ADJUST THESE PLATES LATERALLY.

519D3R for Pier W28 519D1 for Others

519D3L for Pier W28 519D1 for Others

519S5 for Pier W28 519S2 for Others

PIER W28 - 519S1
PIERS W29, W30, W31, W32 - 519S3
PIER A - 519S4

Section BB

A325 (HIGH STRENGTH BOLTS) FINGER TIGHTENED BY SHOP. TORQUE FULLY IN FIELD

SECTION - CC
(Typical Stringer Splice)

5 A307 MACH. BOLT (SHOP)

A325 H.S. BOLT (FIELD) (2 - DIAGONALLY ACROSS)

TYPICAL CONNECTION

Section D

Section K

SIGN POST SUPPORTS

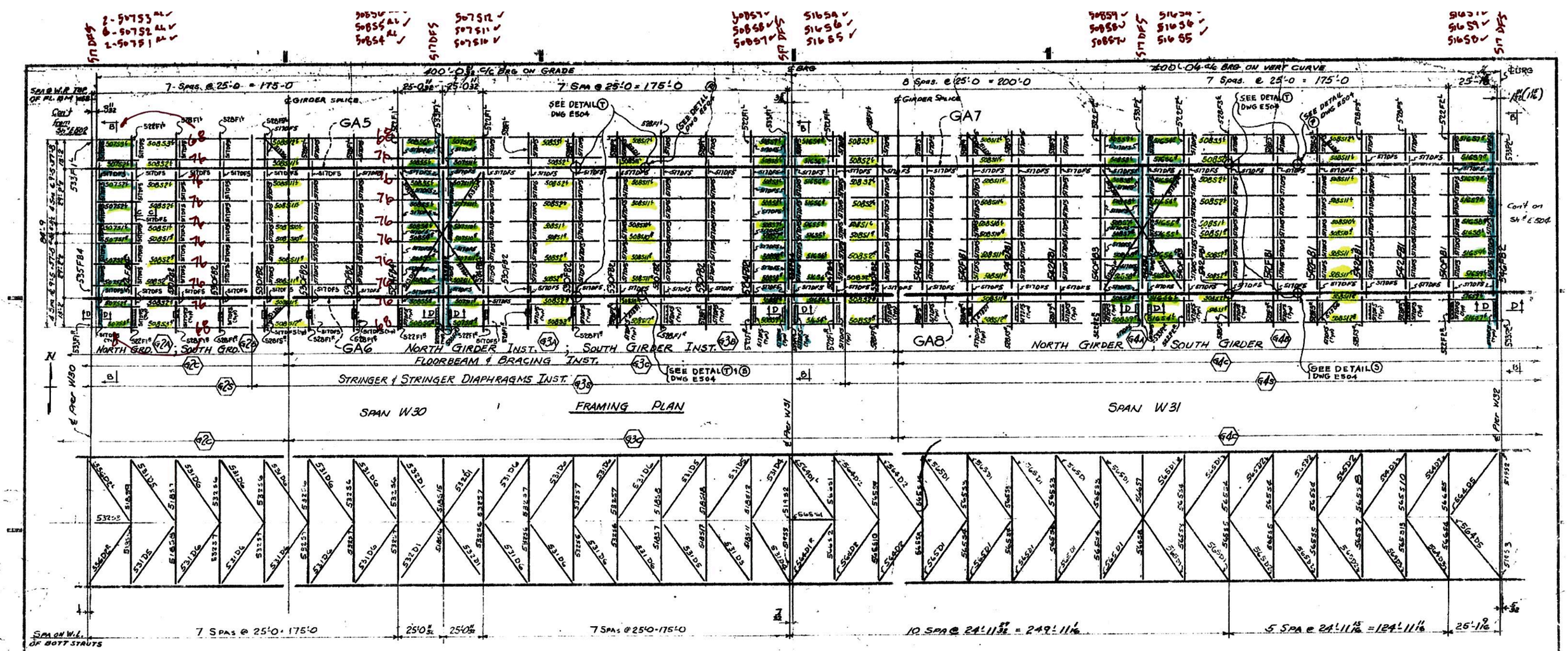
Note: For Section DD See Sh E503

TENNESSEE DEPT. OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
MISSISSIPPI RIVER BRIDGE - PROJ. I-10 (103)0
MEMPHIS - TENNESSEE
BETHLEHEM STEEL CORPORATION

Detailed Macko

SHEET 004 of 100 DRAWING NO. E 502

11-30-9



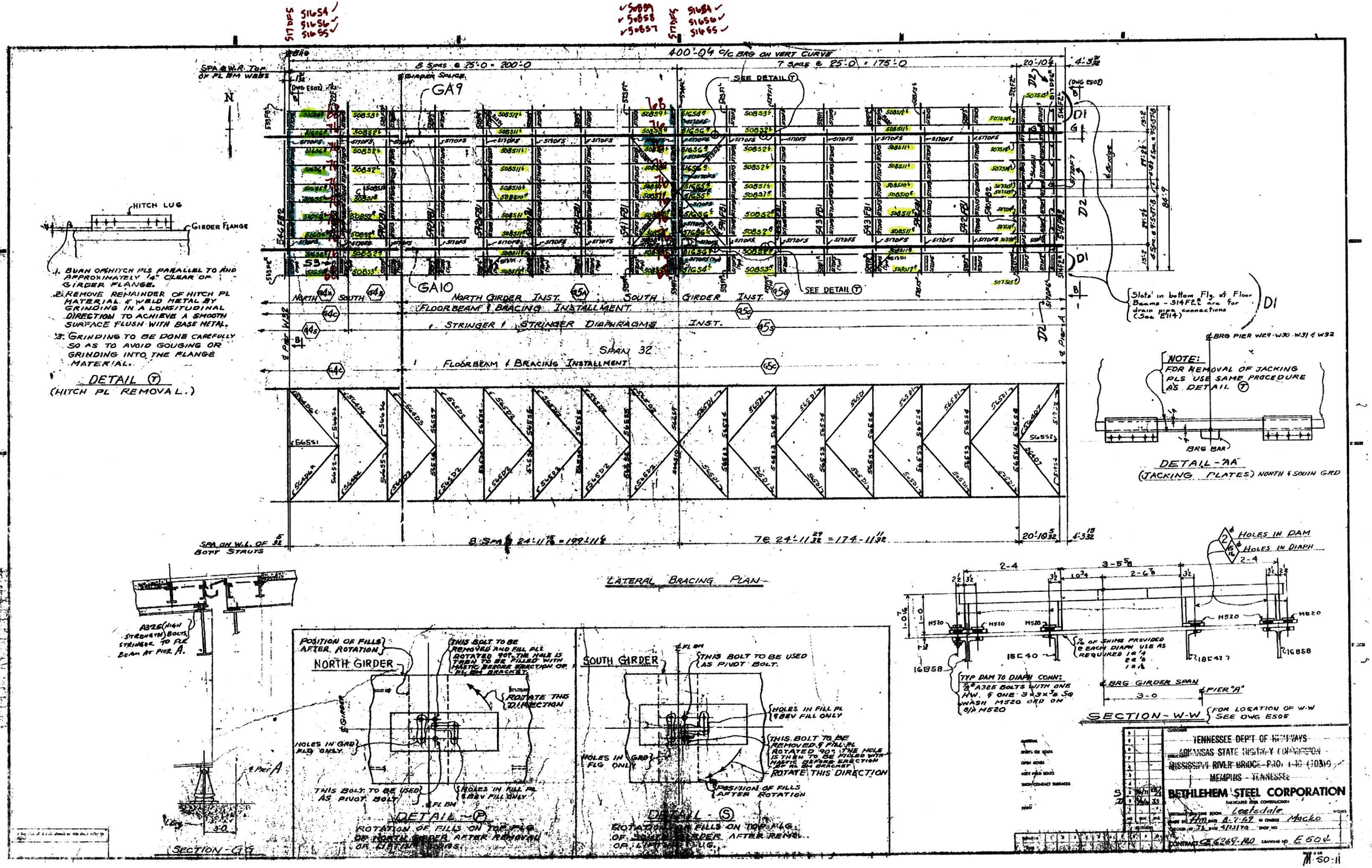
Note
For Section B-B See Dwg E502

TENNESSEE DEP'T OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
MISSISSIPPI RIVER BRIDGE - PROJ. 1-40 (103)0
MEMPHIS - TENNESSEE

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

Leetsdale
8-5-69
JS 4/28/70
CONTRACT C 6269/100 DRAWING NO. E503

M-50-10



400'-0¼ c/c BRG ON VERT CURVE
8 Spas @ 25'-0 = 200'-0
7 Spas @ 25'-0 = 175'-0
SPA @ W.R. TOP OF FL BM WEBS
GIRDER SPLICE
GA9
GA10
SEE DETAIL T
NORTH GIRDER INST.
SOUTH GIRDER INST.
FLOORBEAM & BRACING INSTALLMENT
STRINGER & STRINGER DIAPHRAGMS INST.
SPAN 32
FLOORBEAM & BRACING INSTALLMENT
HITCH LUG
GIRDER FLANGE
1. BURN OF HITCH PLS PARALLEL TO AND APPROXIMATELY ¼" CLEAR OF GIRDER FLANGE.
2. REMOVE REMAINDER OF HITCH PL MATERIAL & WELD METAL BY GRINDING IN A LONGITUDINAL DIRECTION TO ACHIEVE A SMOOTH SURFACE FLUSH WITH BASE METAL.
3. GRINDING TO BE DONE CAREFULLY SO AS TO AVOID GOUGING OR GRINDING INTO THE FLANGE MATERIAL.
DETAIL T
(HITCH PL REMOVAL.)
Slots in bottom Flg. of Floor Beams - 514F2L are for drain pipe connections (See E114)
℄ BRG PIER W29-W30-W31 & W32
NOTE: FOR REMOVAL OF JACKING PLS USE SAME PROCEDURE AS DETAIL T
BRG BAR
DETAIL - "AA"
(JACKING PLATES) NORTH & SOUTH GRD
SPA ON W.L. OF BOTT STRUTS
8 Spas @ 24'-11 15/16 = 199'-11½
7 @ 24'-11 29/32 = 174'-11 11/32
LATERAL BRACING PLAN
A325 (HIGH STRENGTH) BOLTS STRINGER TO FLR BEAM AT PIER A.
SECTION - G-G
POSITION OF FILLS AFTER ROTATION
NORTH GIRDER
THIS BOLT TO BE REMOVED AND FILL PLS ROTATED 90°. THE HOLE IS THEN TO BE FILLED WITH MASTIC BEFORE ERECTION OF FL BM BRACKET.
ROTATE THIS DIRECTION
HOLES IN GRD FLG ONLY
THIS BOLT TO BE USED AS PIVOT BOLT
HOLES IN FILL PL & BEV FILL ONLY
DETAIL - P
ROTATION OF FILLS ON TOP FLG OF NORTH GIRDER AFTER REMOVAL OF LIFTING LUGS.
SOUTH GIRDER
THIS BOLT TO BE USED AS PIVOT BOLT.
HOLES IN FILL PL & BEV FILL ONLY
THIS BOLT TO BE REMOVED & FILL PL ROTATED 90°. THE HOLE IS THEN TO BE FILLED WITH MASTIC BEFORE ERECTION OF FL BM BRACKET
ROTATE THIS DIRECTION
POSITION OF FILLS AFTER ROTATION
DETAIL - S
ROTATION OF FILLS ON TOP FLG OF SOUTH GIRDER AFTER REMOVAL OF LIFTING LUG.
HOLES IN DAM
HOLES IN DIAPH
TYP DAM TO DIAPH CONN: ⅞ A325 BOLTS WITH ONE HW. & ONE 3x3x⅜ SQ WASH M520 ORD ON B/P M520
% OF SHIMS PROVIDED @ EACH DIAPH USE AS REQUIRED
℄ BRG GIRDER SPAN
℄ PIER "A"
SECTION - W-W
FOR LOCATION OF W-W SEE DWG E505
TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
MISSISSIPPI RIVER BRIDGE - PROJ 1-40 (103)10
MEMPHIS - TENNESSEE
BETHLEHEM STEEL CORPORATION
Leetsdale
Macko
CONTRACT CE 6269-100
E504

Line	Assembly Mark	No.	Shape	Size	Size or Pounds	Thick	Ft	In	Remarks	Mill Order
1			16 STRINGERS 1/507S1R 1/507S1L 1/507S2R 3/507S2L -							
2			1/507S10R 1/507S10L 1/507S11R 3/507S11L							
4	aa	4/4	B	24	76		31	1 13/16	for 507S1R/L, 507S2R/L	
5	bb	4/4	B	24	76		31	2 5/32	for 507S10R/L, 507S11R/L	
6	c507	24	BR	7½		3/8	1	5	for 507S2 & 507S11	
7	d507	32	BR	7½		3/8	1	5		
8	f507	8	BR	7½		3/8	1	5	for 507S1 & 507S10	
9	g507	64	BR	3½		3/8	1	7		
10	h507	32	PLW	19½		3/8	1	1		
11	k507	32	PLW	9		3/8	1	7		
12	am507	16	BR	4		3/8	0	9		
13	an507	16	PL	9		3/8	1	1½		
15		32	MB			7/8	0	2¼	RHH, RHN (A307)	Ord on 8/1F ASB501
16		192	325			7/8	0	2¾		Ord on 9/1F ASBH504
17		224	325			7/8	0	2½		
18		416	HW	1¾	15/16	3/16				
19	FW	16	WD			1/4	12	1		
20	B45	16	WD			5/16	0	9		
22			4 STRINGERS 1/507S3R 1/507S3L 1/507S12R 1/507S12L							
24	aa	1/1	B	24	68		31	1 13/16	for 507S3R/L	
25	bb	1/1	B	24	68		31	2 5/32	for 507S12R/L	
26	c507	8	BR	7½		3/8	1	5		
27	g507	16	BR	3½		3/8	1	7		
28	h507	8	PLW	19½		3/8	1	1		
29	k507	8	PLW	9		3/8	1	7		
30	am507	4	BR	4		3/8	0	9		
31	an507	4	PL	9		3/8	1	1½		
32	ap507	4	STP	4		1/8	0	9	TW	
34		8	MB			7/8	0	2	RHH, RHN (A307)	Ord on 8/1 ASB501
36		104	325			7/8	0	2½		Ord on 9/1 ASBH504
37		104	HW	1¾	15/16	3/16				
38	FW	4	WD			1/4	6	5		
39	B45	4	WD			5/16	0	9		
40	TW	4	WD			1/8	0	8		
43			10 STRINGER - 1/507S13R 1/507S13L 3/507S14R							
44			3/507S14L 1/507S15R 1/507S15L							
46	ab	1/1	B	24	68		27	5 11/16	507S15R/L	
47	ac	4/4	B	24	76		27	5 11/16	507S14R/L & 507S13	
49	c507	8	BR	7½		3/8	1	5	507S15R/L, 507S14R/L	
50	d507	8	BR	7½		3/8	1	5	507S13R/L	
51	f507	2	BR	7½		3/8	1	5	507S13R/L	
52	ca	10	PL	9		3/8	0	9		
53	an507	10	PL	9		3/8	1	1½		
55		4	MB			7/8	0	2	507S15R/L - RHH, RHN (A307)	Ord on 8/1 ASB501
56		16	MB			7/8	0	2¼	507S13R/L, 507S14R/L - RHH (A307)	
58	FW	2	WD			1/4	3	7	507S15R/L	
59	FW	8	WD			1/4	6	5	507S13 & 507S14	
60	B45	10	WD			3/16	0	9		

PAY ITEM 602-04.01

INST.	NO.	DESCRIPTION	MARK	REMARKS
1	1	STRINGER (24x... 31'-...)	507S1R	
1	1	(do) (do)	507S1L	Opp Hd
3	3	(do) (do)	507S2R	
3	3	(do) (do)	507S2L	Opp Hd
1	1	(do) (24x12x32'-0)	507S3R	
1	1	(do) (do)	507S3L	Opp Hd
1	1	STRINGER (24x...x32'-0)	507S10R	
1	1	(do) (do)	507S10L	Opp Hd
3	3	(do) (do)	507S11R	
3	3	(do) (do)	507S11L	Opp Hd
1	1	(do) (24x12x32'-0)	507S12R	
1	1	(do) (do)	507S12L	Opp Hd
1	1	(do) (24x9x27'-6)	507S13R	
1	1	(do) (do)	507S13L	Opp Hd
3	3	(do) (do)	507S14R	
3	3	(do) (do)	507S14L	Opp Hd
1	1	(do) (do)	507S15R	
1	1	(do) (do)	507S15L	Opp Hd

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT FOR A DISTANCE OF 3 INCHES FROM EACH GROUP OF HOLES.

Material A36
Bolts 7/8
Open holes 15/16 UN
Shop contact surfaces - No Paint
Weld - As Noted
Paint - 1 ct. as per Specs.

Notes:
For Workmanship Notes See Dwg N501
Holes Marked RFT Shall be Drilled Full Size to a Metal Template.
Connections taking only part of the whole template are marked RFTIM & RFT2M.
"M" denoting modified.

STRINGER DETAILS

TENNESSEE DEP'T OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
MISSISSIPPI RIVER BRIDGE - PROJ. I-40 (103)0'
MEMPHIS - TENNESSEE

BETHLEHEM STEEL CORPORATION
Fabricated Steel Construction
Drafting Room LEETSDALE
Made by EML
Checked by JS Date 11/24/68
Contract CE 6269-120 Drawing No. 507

For location of details shown on this sheet refer to diagrams.
E503 & E504

M-50-29

STRINGER - 508S9¹, 508S8², 508S3²

STRINGER - 508S10¹, 508S11², 508S12²

STRINGER - 508S6², 508S7²

STRINGER - 508S4¹, 508S5², 508S7², 508S8²

SECTION A-A

SECTION B-B

SECTION C-C

Notes:
For Workmanship Notes See Dwg. N501
Holes Marked (RFT) Shall be Drilled Full Size in a Metal Template.

INST.						DESCRIPTION	MARK	
2	2	1	1	1	G	STRINGER(24#×68'-6")	508S9¹	
2	2	1	1	1	G	do (do)	508S8²	
6	6	3	3	3	18	do (do)	508S2²	
6	6	3	3	3	18	do (do)	508S3²	
2	2	1	1	1	G	do (do)	508S6²	
2	2	1	1	1	7	do (do)	508S7²	
			1		1	STRINGER(24#×68'-3")	508S4¹	
			1		1	do (do)	508S5²	

INST.						DESCRIPTION	MARK	REMARKS
1	1	1	1	1	3	STRINGER(24#×68'-2")	508S7¹	
1	1	1	1	1	3	do	508S9²	Ord. Ho
1	1	2	2	2	G	STRINGER(24#×68'-0")	508S10¹	
1	1	2	2	2	G	do (do)	508S12²	Ord. Ho
6	6	18	18	18	18	do (do)	508S11²	
1	1	18	18	18	18	do (do)	508S12²	Ord. Ho
1	1	2	2	2	G	do (24#×72'-7.5")	508S12²	
1	1	2	2	2	G	do (do)	508S12²	Ord. Ho

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT FOR A DISTANCE OF 3 INCHES FROM THE EDGE OF HOLES.

SHOP BILL														FIELD ORDER	
PIECE MARK	ASSEMBLY MARK	NO	GRADE	LENGTH	WEIGHT EACH PIECE	WEIGHT SHOP	LENGTH FT	LENGTH IN	REMARKS	LENGTH FT	LENGTH IN	PIECES	TOTAL
1		60 STRINGERS - 1-508S1¹ & 508S8², 8-508S2² & 508S9², 508S3², 508S6², 508S7²											
2	a²	96	B	24	68		62	5⅜					
4	c507	96	BR	7½		⅜	1	5	508S2				
5	d507	96	BR	7½		⅜	1	5	508S3				
6	f507	24	BR	7½		⅜	1	5	508S1				
7	g507	240	BR	3½		⅜	1	7					
8	h507	180	PLU	19½		⅜	1	1					
9	k507	120	PLU	9		⅜	1	7					
10	an507	120	PL	9		⅜	1	1½					
11	as508	96	STP	3½		⅛	0	9⅛	508S1², 508S2²				
12	at508	48	STP	9		⅛	0	9⅛	508S1², 508S2²				
13													
14		240	MB			⅜	0	2	A307 RHN-RHN - Ord on ⅜ A58 501				
15		1560	325			⅜	0	2½	Ord on ⅜ A58H 504				
16		1520	HW	1 3/8	15/16	3/16							
18	FW	48	WD			¼	11	9	508S1², 508S2²				
19	FW	12	WD			¼	5	8	508S3², 508S6²				
20	TW	48	WD			⅛	2	0					
21		8 STRINGERS - 1-508S6² & 508S8², 3-508S2², 3-508S9²											
22													
23	b²	1	B	24	68		31	2⅜	FOR 508S6				
24	c²	3	B	24	68		31	11⅛	FOR 508S1				
25	an507	8	PL	9		⅜	1	1½					
26	c507	16	BR	7½		⅜	1	5					
27	an508	8	STP	4		⅛	1	0	4 (TW)				
28	an-at8	8	BR	4		⅛	0	0	9				
29	TW	8	WD			⅛	0	0	8				
30		16	MB			⅜	0	0	2 A307 RHN-RHN Ord on ⅜ A-38 501				
31	FW	8	WD			¼	0	6	5				
32	B45	8	WD			5/16	0	9					
34		60 STRINGERS - 1-508S10¹ & 508S11², 1-508S12², 8-508S4¹ & 508S5², 8-508S7² & 508S8²											
35	f²	24	B	24	68		74	11⅞					
36	c507	144	BR	7½		⅜	1	5	2-508S11				
37	d507	144	BR	7½		⅜	1	5	2-508S10				
38	f507	36	BR	7½		⅜	1	5	508S10				
39	g507	240	BR	3½		⅜	1	7					
40	h507	120	PLU	19½		⅜	1	1					
41	k507	120	PLU	9		⅜	1	7					
42	an507	120	PL	9		⅜	1	1½					
43	as508	96	STP	3½		⅛	0	9⅛	508S10², 508S11²				
44	at508	48	STP	9		⅛	0	9⅛	508S10², 508S11²				
45													
46		360	MB			⅜	0	2	ORD ON ⅜ A58 501				
47		576	325			⅜	0	2¾	12-508S11 12-508S12				
48		1584	325			⅜	0	2½	28-508S10 28-508S11 & 508S12				
49		1320	HW	1 3/8	15/16	5/16			ORD ON ⅜ A58H 504				
50	FW	48	WD			¼	17	0	508S10², 508S11²				
51	FW	12	WD			¼	8	6	508S12²				
52		32 STRINGERS - A 508S9² - 1-508S4¹ - 3-508S7¹ - 3-508S7²											
53		3-508S6² - 9-508S5² - 9-508S8² - 9-508S8¹											
54	f²	24	B	24	76		31	2⅜	508S4, 508S5				
55	f²	24	B	24	76		31	11⅛	508S7, 508S6				
56	f507	16	BR	7½		⅜	1	5	2-508S4 & 508S7				
57	c507	48	BR	7½		⅜	1	5	2-508S5 & 508S8				
58	f507	64	BR	7½		⅜	1	5					
60	an508	32	BR	4		⅛	0	4					
61	an507	32	PL	9		⅜	1	1½					
62													
63													
64		68	MB			⅜	0	2½	ADD RHN-RHN (A307) Ord on ⅜ A58 501				
65	FW	32	WD			¼	12	1					
66	B45	32	WD			5/16	0	9					

STRINGER DETAILS

TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
MISSISSIPPI RIVER BRIDGE - PROJ. I-40 (10)10
MEMPHIS - TENNESSEE

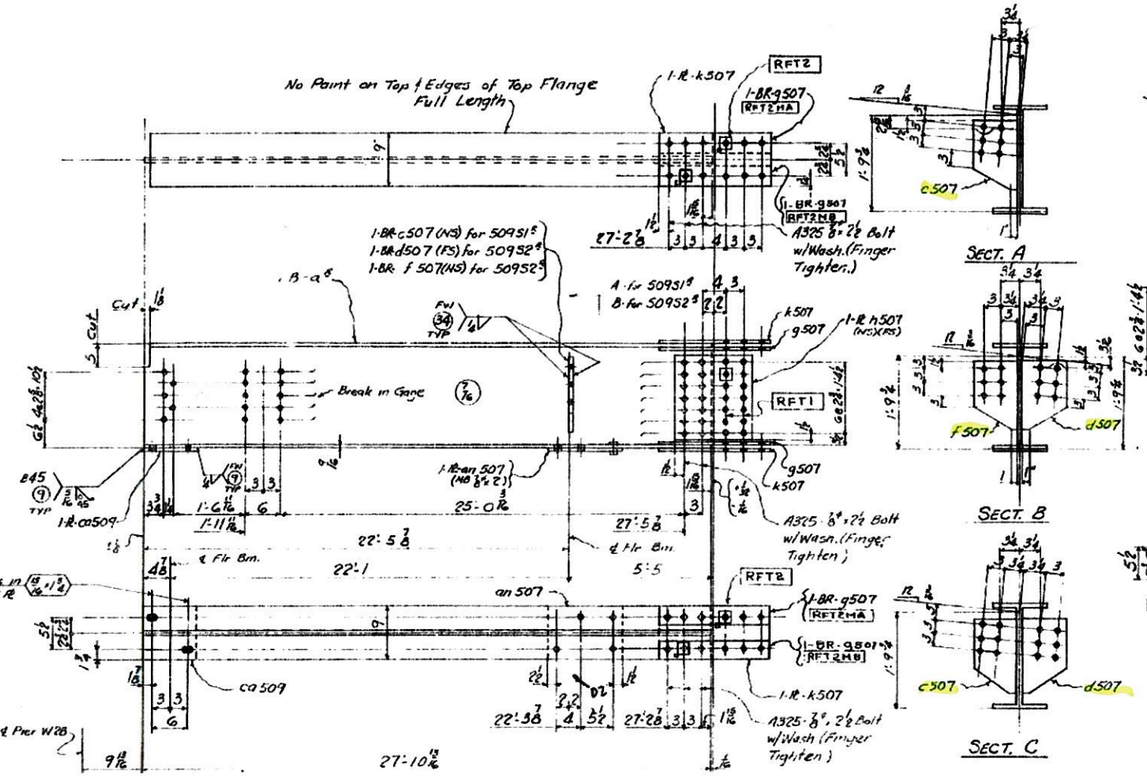
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

LAYOUT DRAWING ROOM 1 FEET SCALE
MADE BY ER DATE 9/26/69 IN CHARGE PACKO
CHECKED BY JTS DATE 11/24/69 SHOP NO.
CONTRACT DE 6269-120 DRAWING NO. X 508

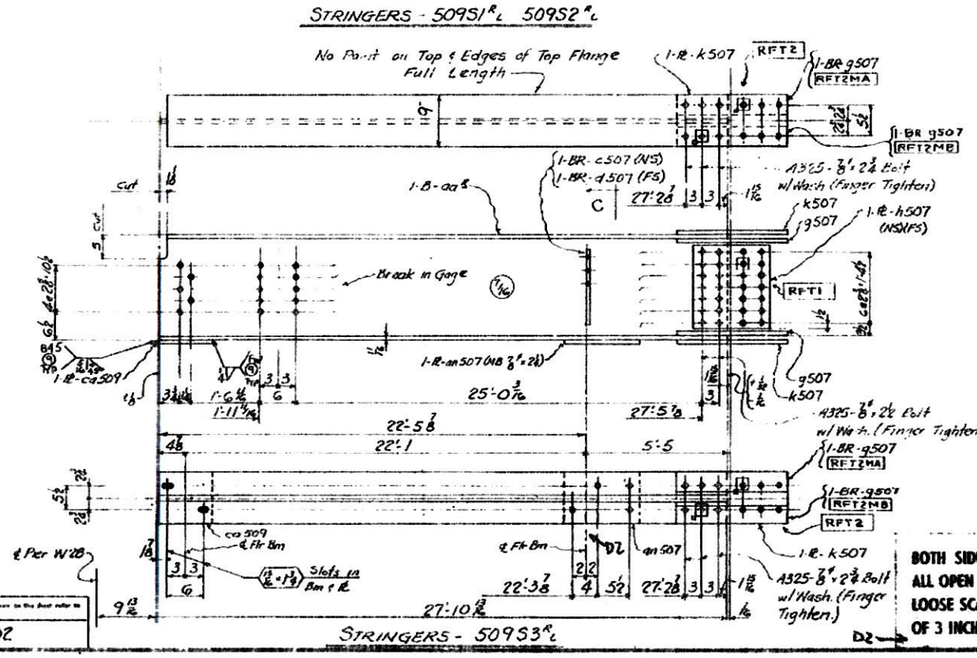
MICROFILMED

A 323 / E804

11-50-30

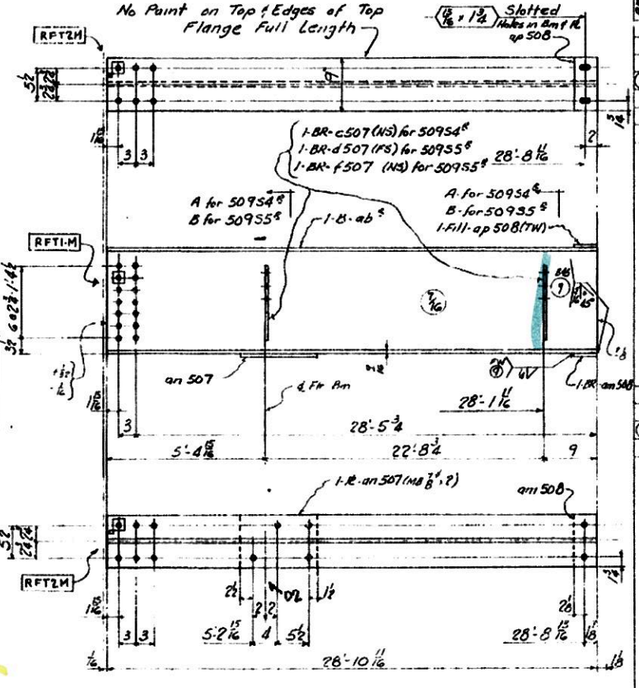


STRINGERS - 50951R, L 50952R, L



STRINGERS - 50953R, L

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT, FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES.



STRINGER - 50954R, L - 50955R, L

Notes:
For Workmanship Notes See Dwg. N501
Holes Marked RFT shall be Drilled Full Size to a Metal Template.
CONNECTIONS TAKING ONLY PART OF THE WHOLE TEMPLATE ARE MARKED RFT1M & RFT2M "M" DENOTING MODIFIED.

Pay Item 602-04.01

INST.				REQUIRED LIST			
		aa	ab	NO	DESCRIPTION	MARK	REMARKS
			1	1	STRINGER (24'-11"-28'-0")	50951R	
			1	1	(L)	50951L	Opp Ha
			1	1	STRINGER (24'-11"-28'-0")	50952R	
			1	1	(L)	50952L	Opp Ha
			3	3	(L)	50953R	
			3	3	(L)	50953L	Opp Ha
			1	2	STRINGER (24'-11"-28'-11")	50954R	
			1	2	(L)	50954L	Opp Ha
			1	2	STRINGER (24'-11"-28'-11")	50955R	
			1	2	(L)	50955L	Opp Ha

SHOP BILL

ASSEMBLY MARK	NO	SHAPE	SECTION SIZE	SECTION SEE OF FORMS	LENGTH	FT	IN	REMARKS
4 - STRINGER - 50951R - 50951L - 50952R - 50952L								
aa R&L	2	B	24	GB		27	10½	
ca509	4	PL	9		⅜	0	9¾	
an507	4	PL	9		⅜	1	1½	
c507	2	BR	7½		⅜	1	5	for 50951L
f507	2	BR	7½		⅜	1	5	for 50952L
k507	8	PLU	9		⅜	1	7	
g507	16	BR	3½		⅜	1	7	
h507	8	PLU	19½		⅜	1	1	
d507	2	BR	7½		⅜	1	5	for 50952R
FW	2	WD			¼	6	5	for 50952L
FW	2	WD			¼	3	7	for 50951R
845	4	WD			5/16	0	9	
	104	325			⅞"	0	2½	Ord on 3/8 A588H 504
	8	MB			⅞"	0	2	RHH, RHN (A307) Ord on 3/8 A36 501
	104	HN	1⅛"	15/16	3/16			Ord on 3/8 A588H 504
6 - STRINGER - 50953R - 50953L								
aa R&L	3	B	24	7G		27	10½	
ca509	6	PL	9		⅜	0	9¾	
an507	6	PL	9		⅜	1	1½	
d507	6	BR	7½		⅜	1	5	
k507	12	PLU	9		⅜	1	7	
g507	24	BR	3½		⅜	1	7	
h507	12	PLU	19½		⅜	1	1	
c507	6	BR	7½		⅜	1	5	
FW	6	WD			¼	6	5	
845	6	WD			5/16	0	9	
	12	MB			⅞"	0	2½	RHH, RHN (A307) Ord on 3/8 A36 501
	72	325			⅞"	0	2½	Ord on 3/8 A588H 504
	84	325			⅞"	0	2½	Ord on 3/8 A588H 504
	154	HN	1⅛"	15/16	3/16			
8 - STRINGER - 50954R, L - 50955R, L								
qb ℄	4	B	24	GB		28	10½	
ap508	8	STP	4		⅛	0	9	(TW)
an507	8	PL	9		⅜	1	1½	
am508	8	PP	4		⅜	0	9	
c507	8	BR	7½		⅜	1	5	for 50954
d507	8	BR	7½		⅜	1	5	for 50955
f507	8	BR	7½		⅜	1	5	for 50955R
FW	4	WD			¼	12	1	for 50955R
FW	4	WD			¼	6	5	for 50954L
845	8	WD			5/16	0	9	
	16	MB			⅞"	0	2	RHH, RHN (A307) Ord on 3/8 A36 501
TW	8	WD			⅛	0	8	

STRINGER DETAIL

MATERIAL - ASTM A36
WORKING HOLES - ⅞"
OPEN HOLES - 13/16" (U.N.)
SHOP CONTACT SURFACES - No PAINT
WELD - AS NOTED
PAINT - AS PER SPECS.

CUSTOMER: TENNESSEE DEP'T OF HIGHWAYS
STRUCTURE: ARKANSAS STATE HIGHWAY COMMISSION
MISSISSIPPI RIVER BRIDGE - PROJ. I-40 (103)0
MEMPHIS - TENNESSEE
BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
LOCATION OF DRAWING ROOM: Leetsdale WORKS
MADE BY: AMS DATE: 11/24/69 IN CHARGE: Macko
CHECKED BY: JJ DATE: 11/24/69 SHOP NO.:
CONTRACT: CE 6269-120 DRAWING NO: 509

M-30-31

For location of details shown on this sheet refer to diagrams
E-502

STRINGER - 51051 R L - 51052 R L - 51053 R L - 51054 R L - 51055 R L - 51056 R L

(do) - 51058 & 51059 (Opp to Sketch)

PAY ITEM 602-04.01

q2s	q/s					
2	2	4	STRINGERS	(24.12.60.9)	51051 R	
2	2	4	(do)	(24.12.60.9)	51051 L	Opp. Ho.
2	2	4	(do)	(24.12.48.0)	51052 R	
1	2	3	(do)	(24.12.48.0)	51052 L	Opp Ho.
6	6	12	(do)	(24.16.60.9)	51053 R	
6	6	12	(do)	(24.16.60.9)	51053 L	Opp. Ho.
6	6	12	(do)	(24.16.48.0)	51054 R	
5	6	11	(do)	(24.16.48.0)	51054 L	Opp Ho
2	2	4	(do)	(24.16.60.9)	51055 R	
2	2	4	(do)	(24.16.60.9)	51055 L	Opp Ho
2	2	4	(do)	(24.16.48.0)	51056 R	
2	2	4	(do)	(24.16.48.0)	51056 L	Opp Ho.
3	3	6	(do)	(24.16.28.11)	51057 R	
3	3	6	(do)	(24.16.28.11)	51057 L	Opp Ho
1		1	(do)	(24.12.48.0)	51058	
1		1	(do)	(24.12.48.0)	51059	Opp Ho

SHOP BILL

Prod. Code	Line	Assembly Mark	No	Shape	Size	Size or Pounds	Thick	Length Ft	Length In	Remarks	Mill Order Length Ft	In	Item Page	Line
	1	80-STRINGERS 4/51051 R 4/51051 L 4/51052 R 3/51052 L												
	2	12/51053 R 12/51053 L 12/51054 R 11/51054 L 4/51055 R												
	3	4/51055 L 4/51056 R 4/51056 L 1/51058, 1/51059												
(1)	5	a R L	20/20	B	24	68		59	10½	51051, 51053, 51055				
(1)	6	b R L	20/18	B	24	68		47	1 5/8	51052, 51054, 51056				
(1)	7	a L	2	B	24	68		47	1 5/8	51058 & 51059				
	11	c507	128	BR	7½		3/8	1	5	2-51051 R L & 51052 R L & 51058-51059 (R2)				
	12	d507	128	BR	7½		3/8	1	5	2-51053 R L & 51054 R L - 51059				
	13	f507	32	BR	7½		3/8	1	5	2-51055 R L; 2-51056 R L				
	14	k507	160	PLU	9		3/8	1	7					
	15	g507	320	BR	3½		3/8	1	7					
	16	h507	160	PLU	19½		3/8	1	1					
	17	al508	48	STP	9		1/8	0	9 3/8	51053 R L (TW) 51054 R L & 51059				
	18	as508	96	STP	3½		1/8	0	9 7/16	2-51053 R L (TW) 2-51054 R L & 51059				
	19	an507	160	PL	9		3/8	1	1½					
	21	TW	24	WD			1/8	2	0	For 51053				
	22	FW	16	WD			1/4	5	8	for 51051 R L & 51052 R L & 51058				
	23	FW	64	WD			1/4	11	4	for 51053-51055 51054-51056 - 51059				
	25		1792	325			7/8"	0	2½	16-For 51054 & 51059 26-For Others				
	26		288	325			7/8"	0	2¾	for {51054 / 51059} - Ord on 9/P ASBH504				
	27		2080	HW	1¾"	15/16	3/16							
	28		320	MB			7/8"	0	2	RHN, RHN (A307) Ord on 5/P ASB501				
	32	12-STRINGERS 6/51057 R 6/51057 L												
(1)	34	aa R L	6/6	B	24	76		28	10 11/16					
	35	d507	24	BR	7½		3/8	1	5					
	36	c507	24	BR	7½		3/8	1	5					
	37	an507	12	PL	9		3/8	1	1½					
	38	am508	12	BR	4		3/8	0	9					
	39	FW	12	WD			1/4	12	1					
	40	B45	12	WD			5/16	0	9					
	41		24	MB			7/8"	0	2¼	RHN, RHN (A307) Ord on 7/P ASB501				

STRINGER - 51057 R L

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT, FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES.

Notes:
For Workmanship Notes See Dwg. N501
Holes Marked RFT Shall be Drilled Full Size to a Metal Template.
CONNECTIONS TAKING ONLY PART OF THE WHOLE TEMPLATE ARE MARKED RFT1M & RFT2M "M" DENOTING MODIFIED.

STRINGER DETAILS

MATERIAL - ASTM A36
BOLTS - 7/8"
OPEN HOLES - 15/16" (UN)
SHOP CONTACT SURFACES - No Paint
WELD - As Noted
PAINT - As Per Specs.

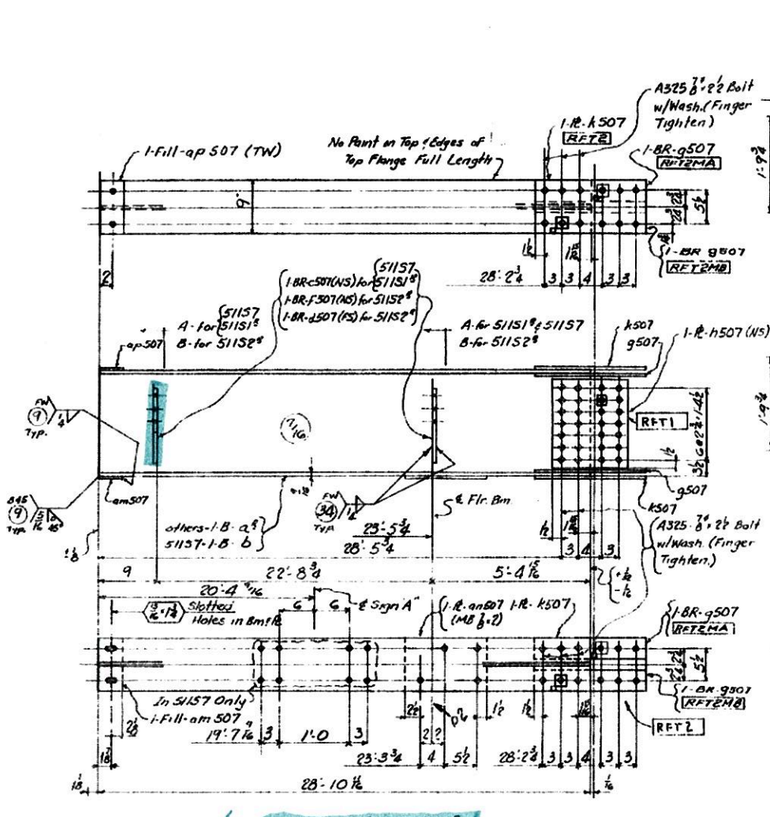
For location of details shown on this sheet refer to diagram: E 502

No	Date	By
R3		J.S.
R2		Hm
R1		J.S.

CUSTOMER: TENNESSEE DEP'T OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
STRUCTURE: MISSISSIPPI RIVER BRIDGE - PROJ. I-40 (103)0
MEMPHIS - TENNESSEE

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
LEETSDALE DRAFTING ROOM Leetsdale WORKS
MADE BY Hm IN CHARGE Macko
CHECKED BY JS DATE 11/24/69
CONTRACT CE6269-120 DRAWING NO 510

M-50-32



PAY ITEM 602-04.01

INST.			REQUIRED LIST			
	#2	#3	NO.	DESCRIPTION	MARK	REMARKS
	1		1	STRINGERS (28'-11"-29'-9")	51151 R	
	1	1	2	(do) (28'-11"-29'-9")	51151 L	Opp. Ho.
	1	1	2	(do) (28'-11"-29'-9")	51152 R	
	1	1	2	(do) (28'-11"-29'-9")	51152 L	Opp. Ho.
	3	2	5	(do) (28'-11"-29'-9")	51153 R	
	3	3	6	(do) (28'-11"-29'-9")	51153 L	Opp. Ho.
	1	1	2	(do) (28'-11"-29'-9")	51154 R	
	1	1	2	(do) (28'-11"-29'-9")	51154 L	Opp. Ho.
	1	1	2	(do) (28'-11"-29'-9")	51155 R	
	1	1	2	(do) (28'-11"-29'-9")	51155 L	Opp. Ho.
	3	3	6	(do) (28'-11"-29'-9")	51156 R	
	3	3	6	(do) (28'-11"-29'-9")	51156 L	Opp. Ho.
		1	1	(do) (28'-11"-29'-9")	51157	
		1	1	(do) (28'-11"-29'-9")	51158	

Notes:

For Workmanship Notes See Dwg. N501

Holes Marked RFT Shall be Drilled Full Size to a Metal Template.

CONNECTIONS TAKING ONLY PART OF THE WHOLE TEMPLATE ARE MARKED RFT1N & RFT2M. "M" DENOTING MODIFIED.

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS, LOOSE SCALE AND PAINT, FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES. D2

SHOP BILL

Mark	Assembly Mark	No.	Shape	Section: Bar	Section: Bar or Plate	Section: Thick	Length: ft	Length: in	
		8		STRINGERS - 1/51151 R 1/51152 R					
				1-51157					
(1)	a ℄	3/4	B	24	68		28	10 1/2	1/51157
(1)	b	1	B	24	68		28	10 1/2	
	ap507	8	STP	4		3/8	0	9	
	am507	8	BR	4		3/8	0	9	
	c507	8	BR	7 1/2		3/8	1	5	For 51157
	d507	8	BR	7 1/2		3/8	1	5	For 51152
	f507	8	BR	7 1/2		3/8	1	5	
	an507	8	PL	9		3/8	1	1 1/2	
	k507	16	FLU	9		3/8	1	7	
	g507	32	BR	3 1/2		3/8	1	7	
	h507	16	PLU	19 1/2		3/8	1	1	
		208	325			7/8"	0	2 1/2	Ord on 5/P ASHB504
		208	HW	1 1/4"	13/16	3/16			
		16	MB			7/8"	0	2	A307 Galv, RHN Ord on 5/P ASB 501
	TW	8	WD			1/8	0	8	
	FW	4	WD			1/4	6	5	For 51151 & 51157
	FW	4	WD			1/4	12	1	For 51152
	BAS	8	WD			5/16	0	9	
		12		STRINGERS - 5/51153 R 6/51153 L 1/51158					
(1)	c ℄	5/6	B	24	76		28	10 1/2	51153
(1)	d	1	B	24	76		28	10 1/2	51158
	am507	12	BR	4		3/8	0	9	
	c507	24	BR	7 1/2		3/8	1	5	
	d507	24	BR	7 1/2		3/8	1	5	
	an507	12	PL	9		3/8	1	1 1/2	
	k507	24	PLU	9		3/8	1	7	
	g507	48	BR	3 1/2		3/8	1	7	
	h507	24	PLU	19 1/2		3/8	1	1	
		168	325			7/8"	0	2 1/2	
		144	325			3/4"	0	2 3/4	Ord on 5/P ASHB504
		32	HW	1 1/4"	13/16	3/16			
		24	MB			1"	0	2 3/4	A307 Galv, RHN Ord on 5/P ASB 501
	FW	12	WD			1/4	12	1	
	BAS	12	WD			5/16	0	9	
		20		STRINGERS - 7/51154 R 3/51154 L 3/51155 R 7/51155 L 6/51156 R 6/51156 L					
(1)	d ℄	3/4	B	24	68		28	10 1/2	for 51154 & 51155
(1)	g ℄	6/6	B	24	76		28	10 1/2	for 51156
	c507	32	BR	7 1/2		3/8	1	5	2-for 51156 2-for 51156 2-for 51156 2-for 51156
	d507	32	BR	7 1/2		3/8	1	5	
	f507	8	BR	7 1/2		3/8	1	5	for 51155
	ap508	8	STP	4		3/8	0	9	(TW) for 51156 & 51154 & 51155
	am508	20	BR	4		3/8	0	9	
	am507	20	PL	9		3/8	1	1 1/2	
		16	MB			7/8"	0	2	A307 Galv, RHN for 51154 & 51155 Ord on 5/P ASB 501
		24	MB			7/8"	0	2 3/4	A307 Galv, RHN for 51156
	TW	8	WD			1/8	0	8	for 51154 & 51155
	FW	4	WD			1/4	6	5	for 51154
	FW	16	WD			1/4	12	1	for 51155 - 51156
	BAS	20	WD			5/16	0	9	

STRINGER DETAIL

TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
MISSISSIPPI RIVER BRIDGE - PROJ. I-40 (103)0
MEMPHIS - TENNESSEE

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

DETAILED DRAWING BOOK Leetsdale WORKS
PLACE IN Elev DATE 10-1-69 IN CHARGE Macko
CHECKED BY JS DATE 11/24/69 SHOP NO.

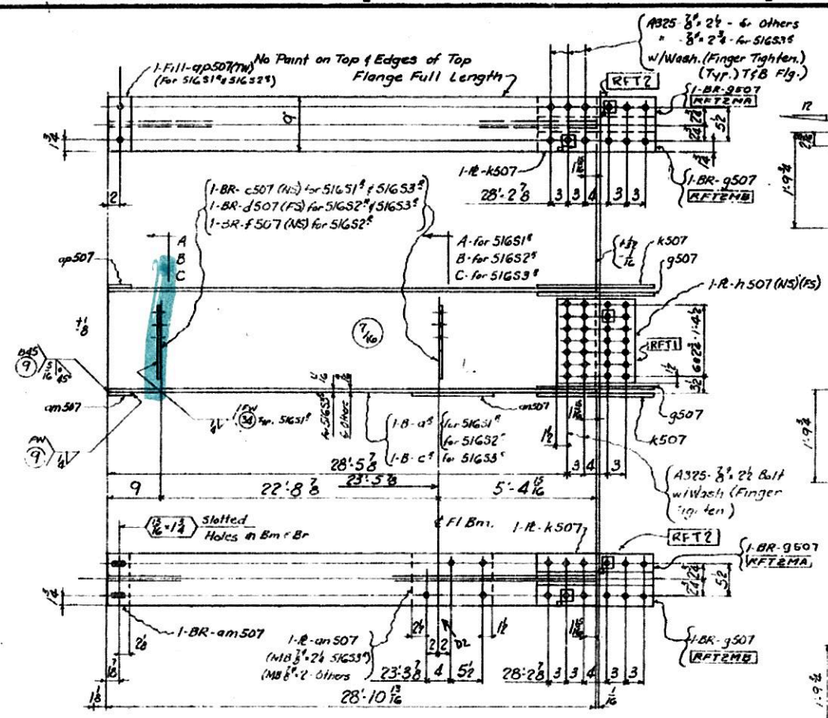
CONTRACT CE6269-110 DRAWING NO. 511

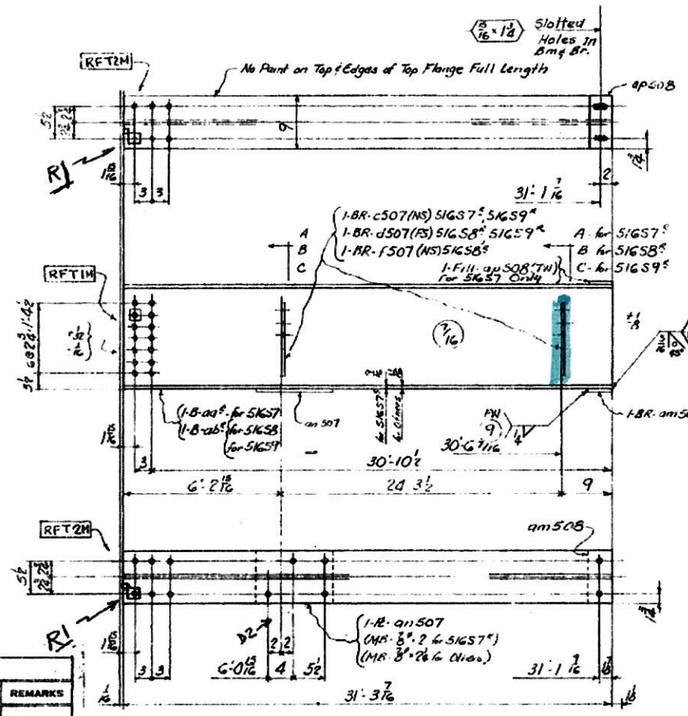
MATERIAL - ASTM A36
SHOP RIVET HOLES - 7/8"
OPEN HOLES - 15/16" (UN)
SHOP CONTACT SURFACES - No Paint
WELD - As Noted
PAINT - As Per Specs.

M-50-53

WORK PLANNED

E502





66		am508	10	BR	4		7/8	0	9			
67		an507	10	PL	9		7/8	1	1 1/8			
68												
69			4	MB			7/8"	0	2	RNH-RNH for 51GS7 & (ASD7)	Ord on	
70			16	MB			7/8"	0	2 1/4	RNH-RNH for 51GS8 & 51GS9 (ASD7)	9/ASB501	
71		TW	2	WD			3/8	0	8	for 51GS7 &		
72		FW	2	WD			1/4	6	5	for 51GS7 &		
73		FW	8	WD			1/4	12	1	for 51GS8 / 51GS9		
74		B45	10	WD				0	9			

		ASSEMBLY MARK	NO	SHAPE	SHOP BILL SIZE	SHOP BILL WEIGHT EACH PIECE	SHOP BILL LENGTH FT	SHOP BILL LENGTH IN	SHOP BILL REMARKS	MILL ORDER LENGTH FT	MILL ORDER LENGTH IN	MILL ORDER PAGE	MILL ORDER LINE
	1		10		STRINGERS- 1/51GS1 & 1/51GS1 1/2 & 1/51GS2 & 1/51GS2 1/2 & 3/51GS3 & 3/51GS3 &								
	2												
	3												
	4	a &	3/4	B	24	68		28	10 1/2	51GS1 & & 51GS2 &			
	5	c &	3/4	B	24	76		28	10 1/2	51GS3 &			
•	6	c507	16	BR	7 1/2		7/8	1	5	& 51GS4 & & 51GS5 &			
•	7	d507	16	BR	7 1/2		7/8	1	5	& 51GS4 & & 51GS5 &			
•	8	f507	4	BR	7 1/2		7/8	1	5	for 51GS2 &			
	9	ap507	4	STP	4		1/8	0	9	(TW) for 51GS1 & 51GS2 &			
	10	am507	10	BR	4		7/8	0	9				
	11	an507	10	PL	9		7/8	1	1 1/8				
	12	k507	20	PLU	9		7/8	1	7				
	13	g507	40	BR	3 1/2		7/8	1	7				
	14	h507	40	PLU	19 1/2		7/8	1	1				
	15												
	16												
	17		188	325			7/8"	0	2 1/2	N. for 51GS3 Rg. Others			
	18		72	325			7/8"	0	2 3/4	for 51GS3 &	Ord on 9/ASBH 504		
	19		240	HN	1 1/4"	15/16	5/16						
	20		8	MB			7/8"	0	2	(ASD7) RNH-RNH for 51GS3 &	Ord on 9/ASB 501		
	21		12	MB			7/8"	0	2 1/4	(ASD7) RNH-RNH for 51GS3 &			
	22	TW	4	WD			3/8	0	8	for 51GS1 & 51GS2			
	23	FW	2	WD			1/4	6	5	for 51GS1 &			
	24	FW	8	WD			1/4	12	1	for 51GS2 & 51GS3			
	25	B45	10	WD			5/16	0	9				
	26												
	27												
	28		40		STRINGERS- 4/51GS4 & 4/51GS4 & 4/51GS5 & 4/51GS5 & 12/51GS6 & 12/51GS6 &								
	29												
①	30	d &	1/4	B	24	68		31	1 1/2	51GS4 &			
①	31	f &	5/16	B	24	76		31	1 1/2	51GS5 & & 51GS6 &			
	32												
	33	c507	64	BR	7 1/2		7/8	1	5	& 51GS7 & & 51GS9 &			
	34	d507	64	BR	7 1/2		7/8	1	5	& 51GS7 & & 51GS9 &			
	35	f507	16	BR	7 1/2		7/8	1	5	51GS8 &			
	36	ap507	8	STP	4		1/8	0	9	51GS8 & (TW)			
	37	am507	40	BR	4		7/8	0	9				
	38	an507	40	PL	9		3/8	1	1 1/8				
	39	k507	80	PLU	9		7/8	1	7				
	40	g507	160	BR	3 1/2		7/8	1	7				
	41	h507	80	PLU	19 1/2		7/8	1	1				
	42												
	43		656	325			7/8"	0	2 1/2	Rg. 51GS6 (8'-0 Others) for 51GS5 &			
	44		384	325			7/8"	0	2 3/4	for 51GS5 &	Ord on 9/ASBH 504		
	45		440	HN	1 1/4	15/16	5/16						
	46		16	MB			7/8"	0	2	(ASD7) RNH-RNH for 51GS4 &	Ord on 9/ASB 501		
	47		64	MB			7/8"	0	2 1/4	(ASD7) RNH-RNH for 51GS6 &			
	48	TW	8	WD			3/8	0	8	for 51GS4			
	49	FW	8	WD			1/4	6	5	for 51GS4			
	50	FW	32	WD			1/4	12	1	for 51GS5 & 51GS6			
	51	B45	20	WD			5/16	0	9				
	52												
	53												
	54		10		STRINGERS- 1/51GS7 & 1/51GS7 & 1/51GS8 & 1/51GS8 & 3/51GS9 & 3/51GS9 &								
	55												
	56												
①	57	aa &	1/4	B	24	68		31	3 3/4	51GS7 &			
①	58	ab &	1/4	B	24	76		31	3 3/4	51GS8 & & 51GS9 &			
	59												
	60	c507	16	BR	7 1/2		7/8	1	5	& 51GS7 & & 51GS9 &			
	61	d507	16	BR	7 1/2		7/8	1	5	& 51GS7 & & 51GS9 &			
	62	f507	4	BR	7 1/2		7/8	1	5	51GS8			
	63												
	64												
	65	ap508	2	STP	4		1/8	0	9	(TW) 51GS7 &			

Pay Item - 602-04 01

INST.					REQUIRED LIST				
45s	64s	45s	64s	45s	NO	DESCRIPTION	MARK	REMARKS
				1	1	Stringer (24'-12"-29'-9")	51GS1 &	
				1	1	(4) " do	51GS1 L	Opp Ho.
				1	1	(4) " (24'-No-29'-9)	51GS2 &	
				1	1	(4) " do	51GS2 L	Opp Ho.
				3	3	(4) " do	51GS3 &	
				3	3	(4) " do	51GS3 L	Opp Ho.
1	2	1			4	(4) " (24'-12'-32'-0)	51GS4 &	
1	2	1			4	(4) " do	51GS4 L	Opp Ho.
1	2	1			4	(4) " (24'-16'-32'-0)	51GS5 &	
1	2	1			4	(4) " do	51GS5 L	Opp Ho.
3	6	3			12	(4) " do	51GS6 &	
3	6	3			12	(4) " do	51GS6 L	Opp Ho.
	1				1	(4) " (24'-12'-31'-4)	51GS7 &	
	1				1	(4) " do	51GS7 L	Opp Ho.
	1				1	(4) " (24'-16'-31'-4)	51GS8 &	
	1				1	(4) " do	51GS8 L	Opp Ho.
	3				3	(4) " do	51GS9 &	
	3				3	(4) " do	51GS9 L	Opp Ho.

Notes:

For Workmanship Notes See Dwg. N501

Holes Marked RFT Shall be Drilled Full Size to Metal Template.

CONNECTIONS TAKING ONLY PART OF THE WHOLE TEMPLATE ARE MARKED RFT1M & RFT2M. "M" DENOTING MODIFIED.

BOTH SIDES OF MATERIAL ADJACENT TO ALL OPEN HOLES MUST BE FREE OF BURRS. LOOSE SCALE AND PAINT FOR A DISTANCE OF 3 INCHES FROM THE GROUP OF HOLES.

D2

MATERIAL - ASTM-A36
BOLTS - 7/8"
OPEN HOLES - 15/16" (uN)
SHOP CONTACT SURFACES - No Paint
WELD - As Noted
PAINT - As per Specs

STRINGER DETAILS

TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
MISSISSIPPI RIVER BRIDGE PROJ. I-40 (103)0
MEMPHIS - TENNESSEE

BETHLEHEM STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION

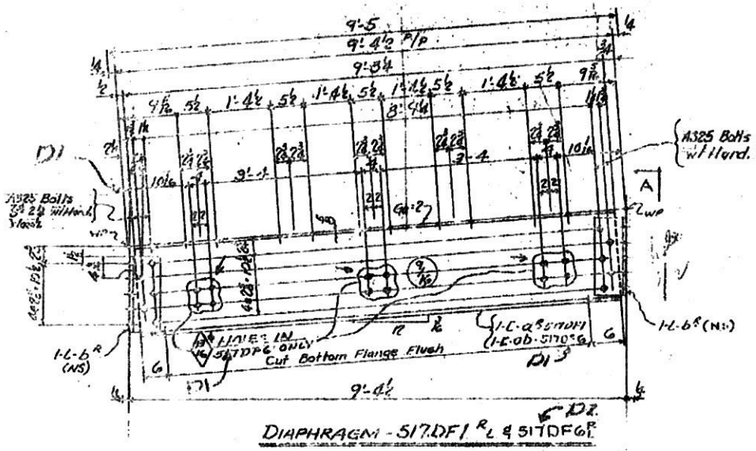
DETAILING DRAWING ROOM Leetsdale WORKS
MADE BY Htm DATE 10-6-69 CHECKED BY JJS DATE 11/24/69 SHOP NO.
CONTRACT CEG6267-120 DRAWING NO. 5/G 1

For location of details shown on this sheet refer to diagrams

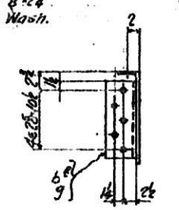
E-502 · E-503 · E-504

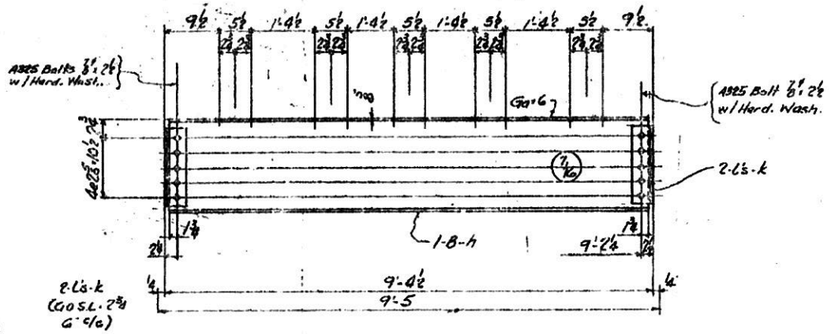
MICROFILMED

M-50-30

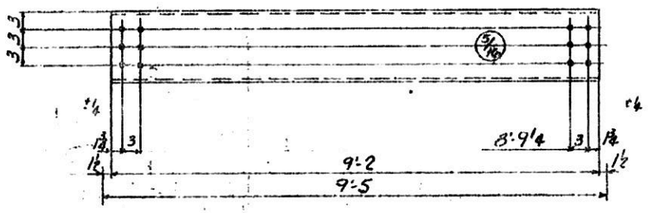


DIAPHRAGM - 517DF1 R,L & 517DF6 R,L

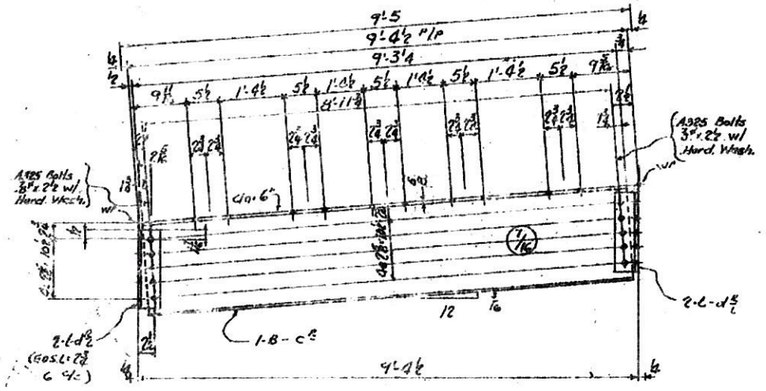




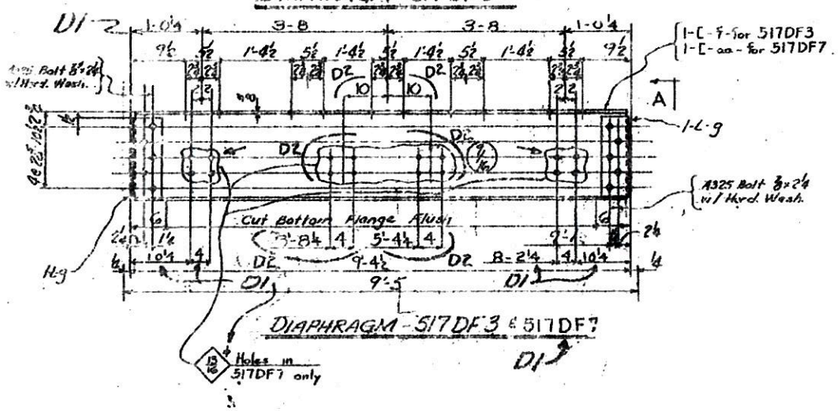
DIAPHRAGM - 517DF4



DIAPHRAGM - 517DF5



DIAPHRAGM 517DF2 R,L



DIAPHRAGM - 517DF3 & 517DF7

PAY ITEM 602-01.01

INST.	REQUIRED LIST				
	NO.	DESCRIPTION	MARK	REMARKS
D1	4	DIAPHRAGMS	517DF1 R	
	4	(4)	517DF1 L	Opp. Hd.
	4	(4)	517DF2 R	
	4	(4)	517DF2 L	Opp. Hd.
D1	1	(1)	517DF5	
	1	(1)	517DF4	
	1	(1)	517DF3	
D1	4	do	517DF6 L	OPP HD
	1	do	517DF7	

Mark	No.	Size	Grade	Length	Weight	Bend	Hole	Remarks
	16			DIAPHRAGMS				517DF1 R & 517DF6 R
	16			DIAPHRAGMS				517DF1 L & 517DF6 L
	160	325					0	24 Diag. on 9" P
	160	HW				3/16		
	16			DIAPHRAGMS				517DF2 R & 517DF5
	16			DIAPHRAGMS				517DF2 L & 517DF5
	160	325					0	24 Diag. on 9" P
	160	HW				3/16		
	2			DIAPHRAGMS				517DF3 & 517DF4
aa	1	C	15	40			9	3¼ 517DF7
f	1	C	15	40			9	3½ 517DF3
g	4	L	5	5		⅝	1	1½
	20	325					0	24 Diag. on 9" P
	20	HW				3/16		
	2			DIAPHRAGMS				517DF3
h	2	B	16	58			9	3½
k	8	L	4	3'-4		⅝	1	1½
	20	325					0	24 Diag. on 9" P
	20	HW				3/16		
	736			DIAPHRAGMS				517DF5
517DF5	736	C	12	20.7			9	2

Note:
FOR WORKMANSHIP NOTES SEE DWG. N501
HOLES TO BE DRILLED OR PUNCHED FULL SIZE

DIAPHRAGM DETAILS

TENNESSEE DEPT OF HIGHWAYS
ARKANSAS STATE HIGHWAY COMMISSION
MISSISSIPPI RIVER BRIDGE - MEMPHIS (1963)
ARKANSAS - TENNESSEE
BETHLEHEM STEEL CORPORATION
Contract No. 517

ASTM - A36
1 COAT As Per Spec.

MICROFILMED