

WTC
DRAWING BOOK 9
AB 18-3 — B 23-1

YITC@LERA BOOK BOX 4A

↓
BOX 04A

↓
BOOK 9 2 of 2

x

141

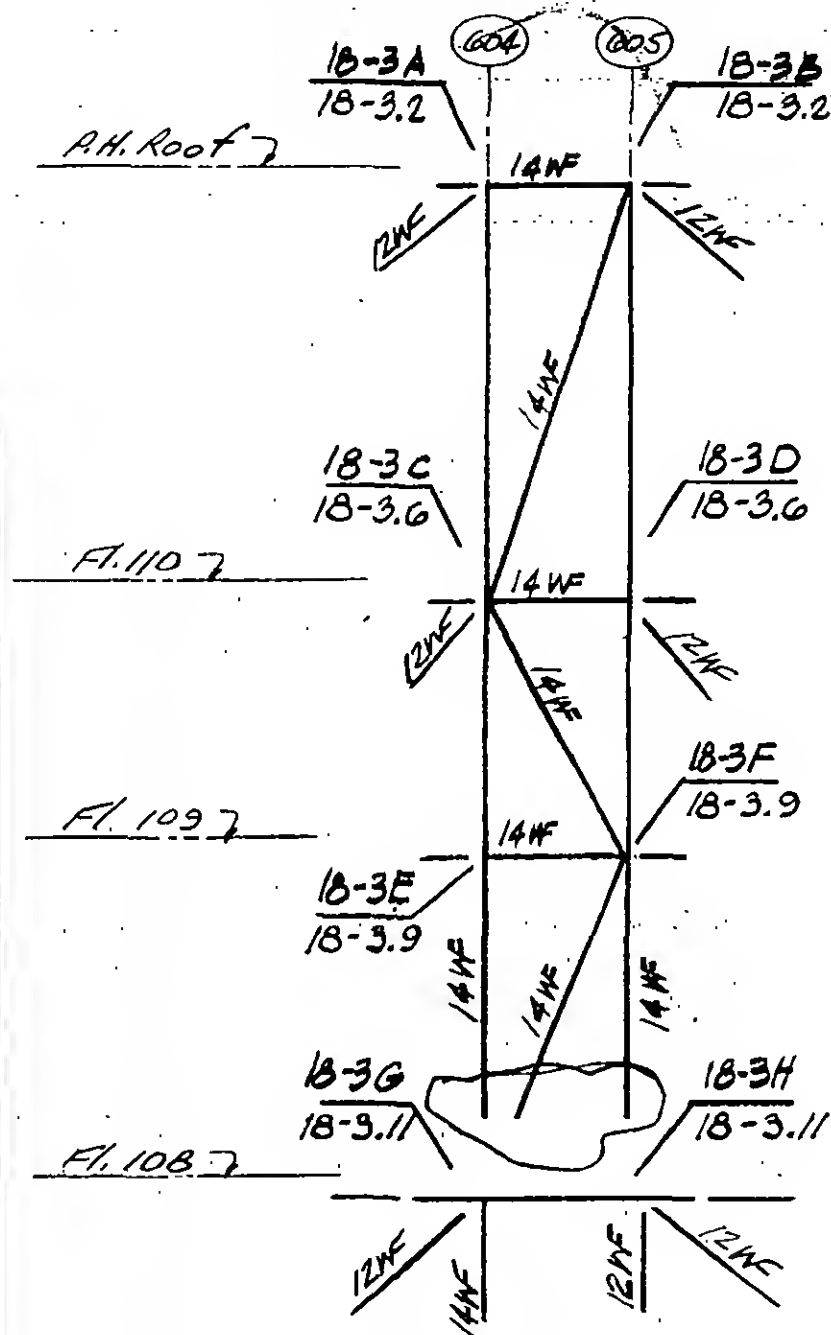
PROJECT THE WORLD TRADE CENTER

TITLE FL. 107-PH CONNECTION DETAILS - LINES 04 & 05

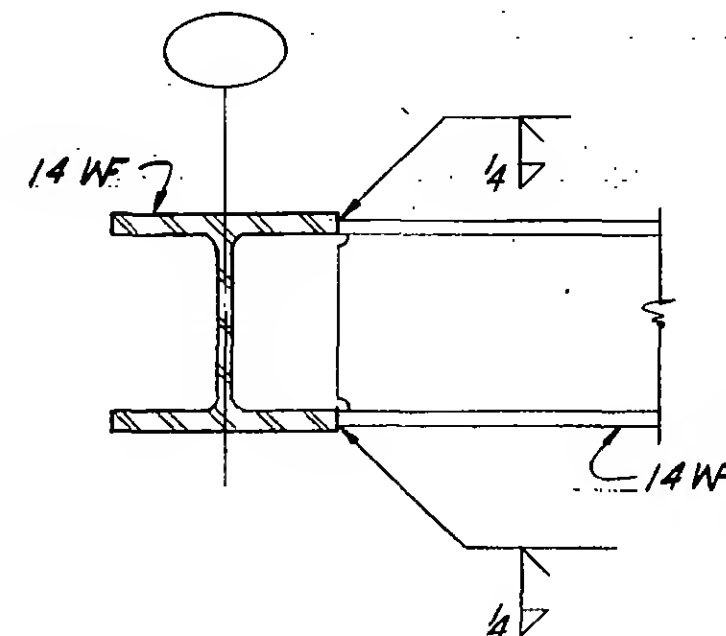
DATE 4-1-70

REVISIONS

7/9/70



DETAIL 18-3



Detail ①



DESIGNED

DRAWN

P.M. Ozeki

REVIEWED

E. Drakos

9-AB18-3.1

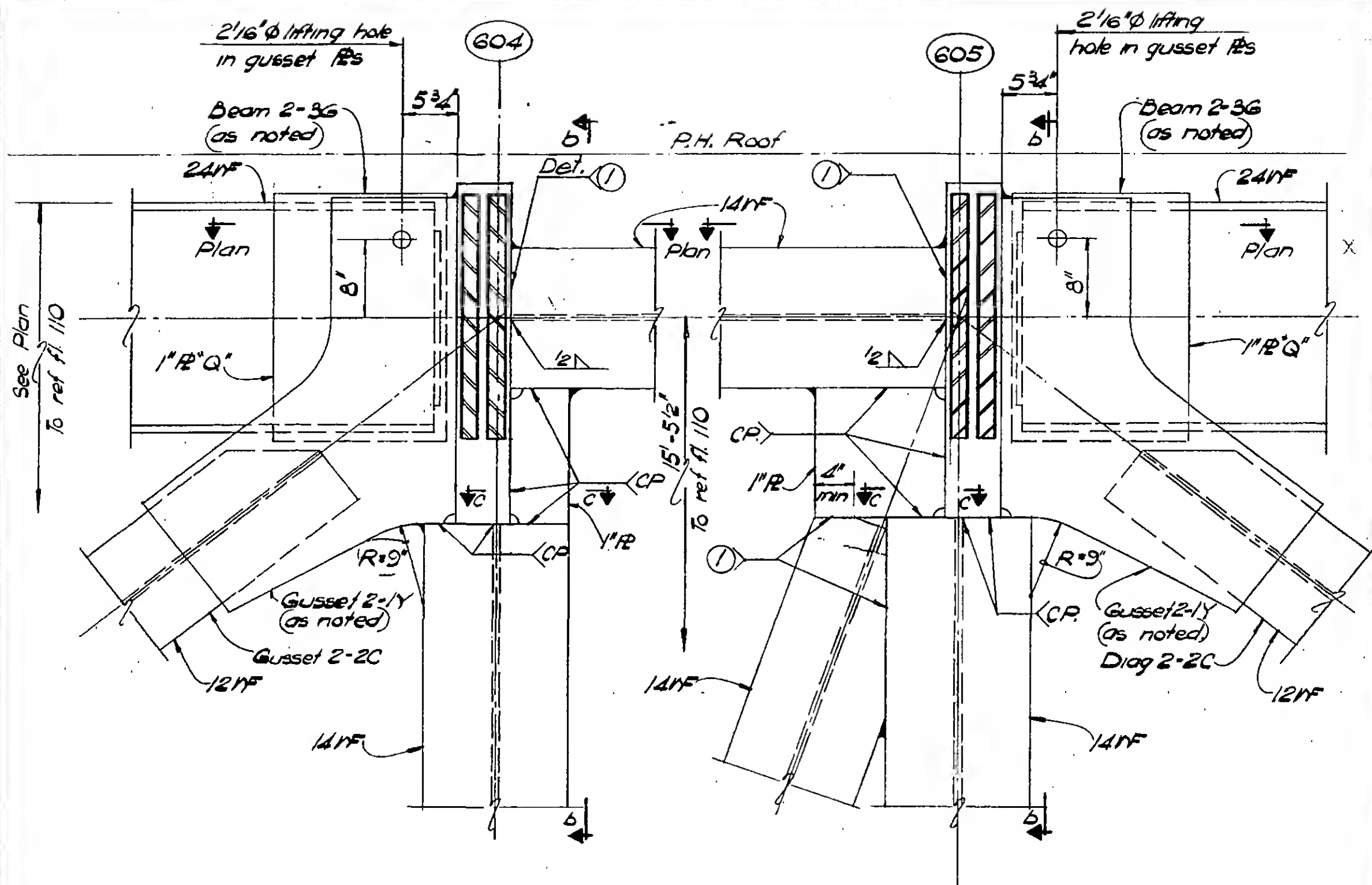
PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - LINES 04/05

DATE 4-1-70

REVISIONS

7-10-70
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 6-29-70
 7-10-70



Section a-a
 DETAIL 18-3A

Section a-a
 DETAIL 18-3B



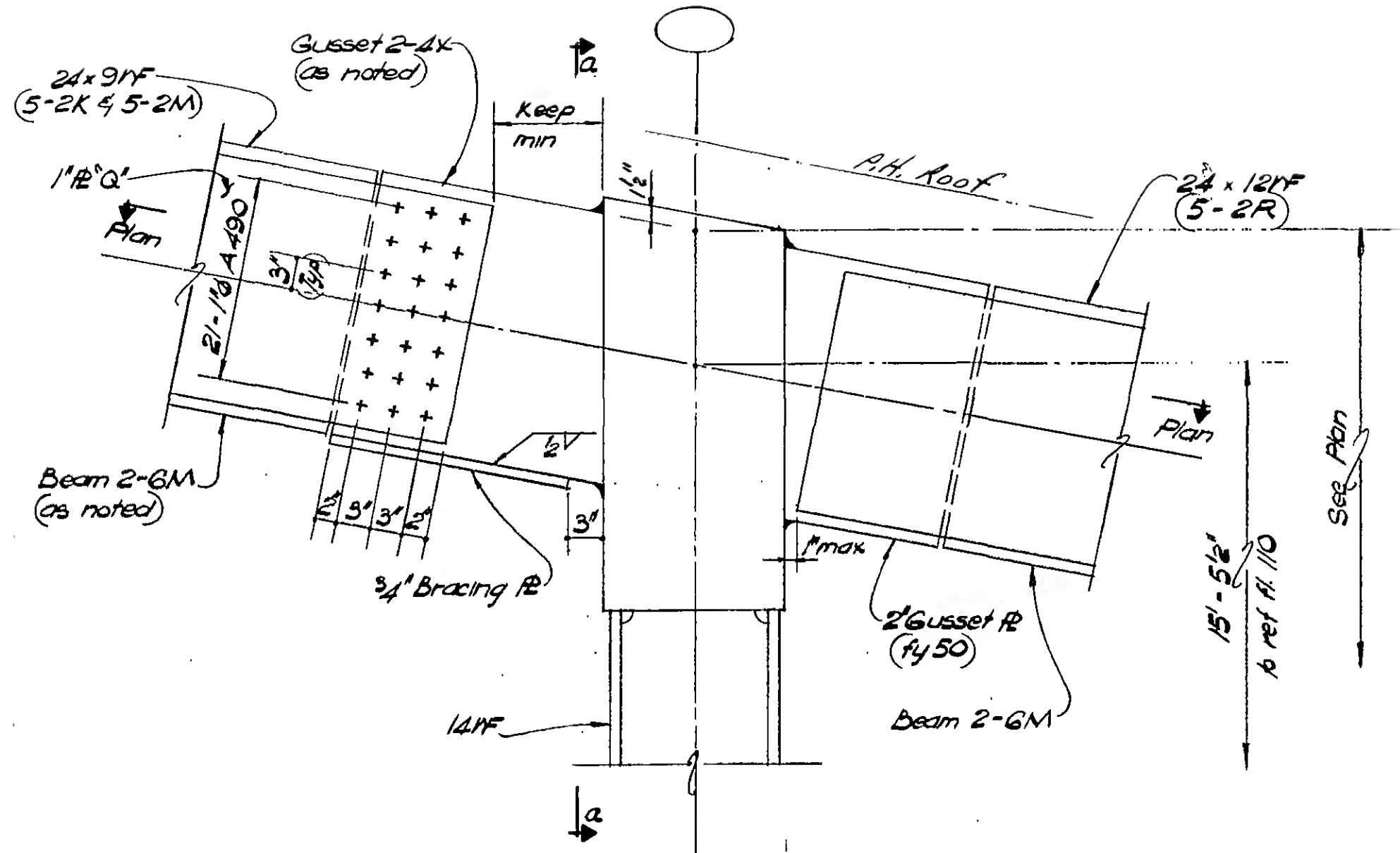
DESIGNED

DRAWN
W. ClarkeREVIEWED
E. Dracos

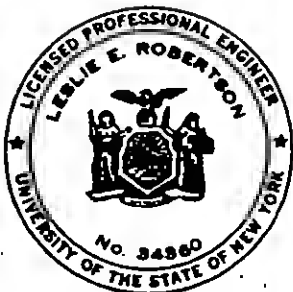
9-AB/8-3.2

REVISIONS

7-10-70
~~10/10 9-25-70~~
 7-10-70



Section b-b.



16

DESIGNED

DRAWN

W. Clarke

REVIEWED

REVIEWED
E. Orakos

9-AB/8-5.3

PROJECT

THE WORLD TRADE CENTER

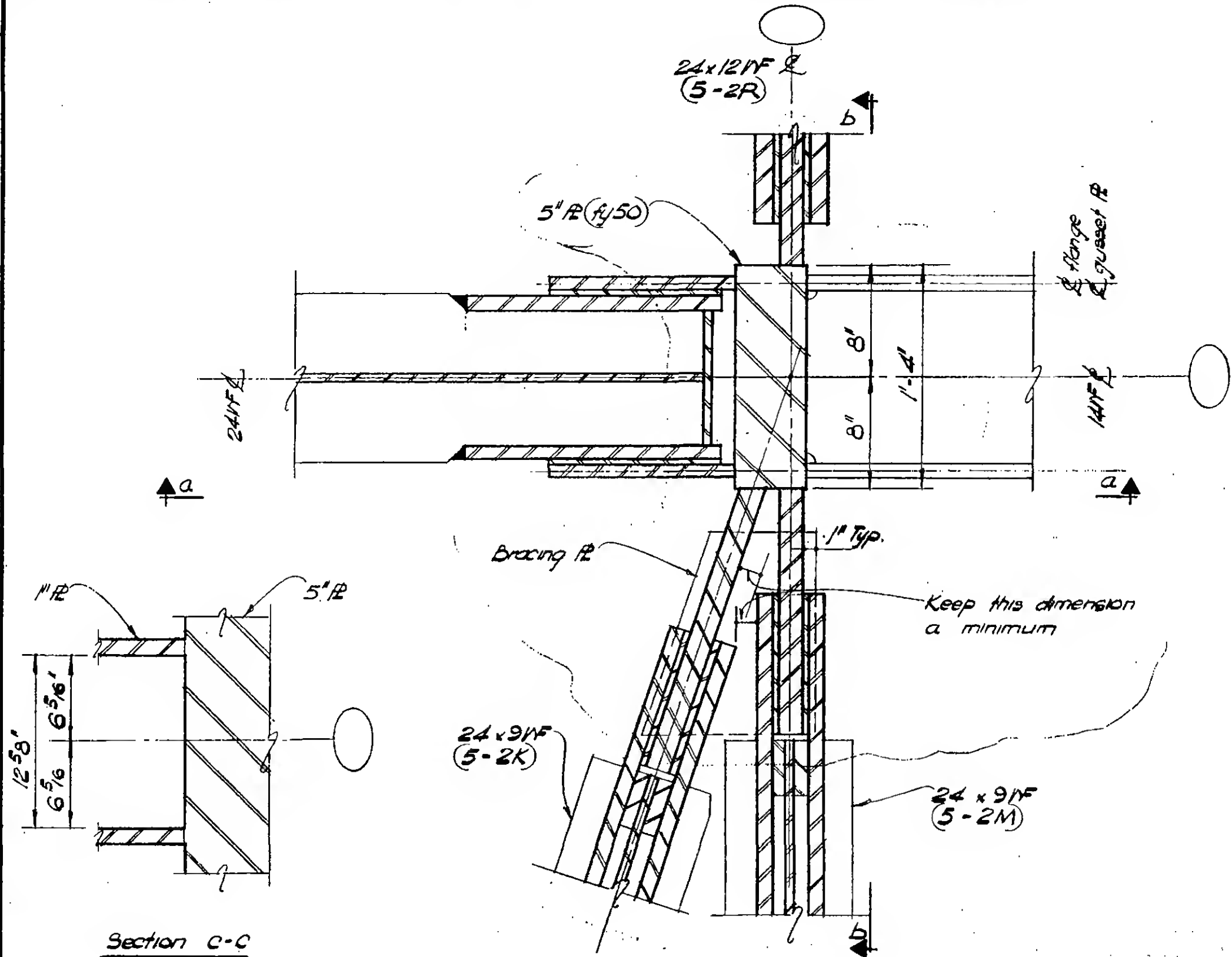
TITLE

FL 107-PH CONNECTION DETAILS - LINES 046, 05

DATE 4-1-70

REVISIONS

7-10-70



Section C-C

PLAN

DETAIL 18-3A (Col. 604) as shown
 DETAIL 18-3B (Col. 605) opp hand



DESIGNED

DRAWN

N. Clarke

REVIEWED

E. Drakos

9-AB/8-34

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

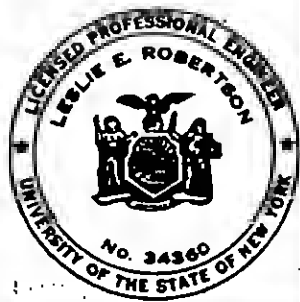
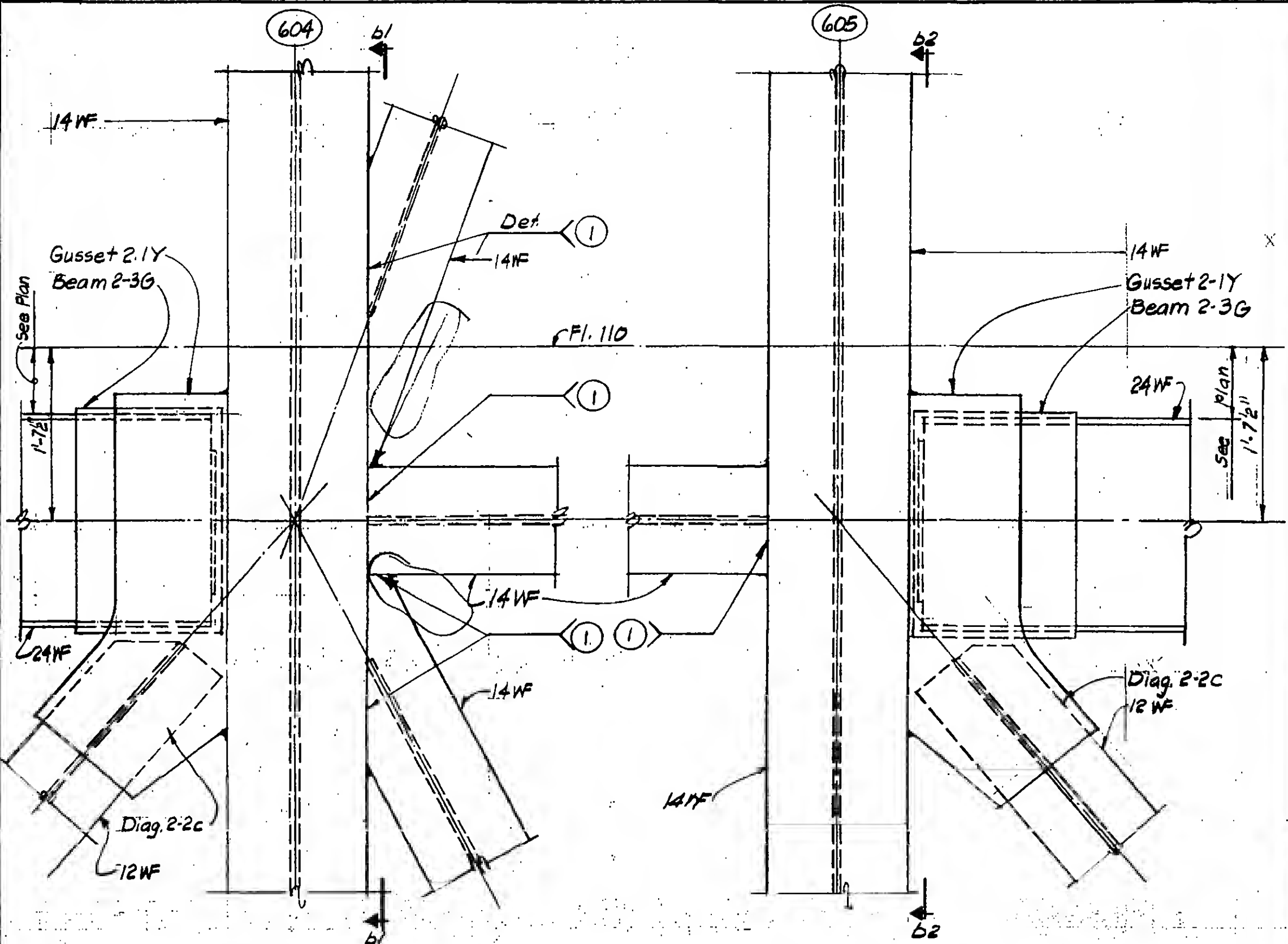
PROJECT THE WORLD TRADE CENTER

TITLE FL. 107-PH CONNECTION DETAILS-LINES 04&05

DATE 4-1-70

REVISIONS

7/9/70



DESIGNED

DRAWN P.M. Ozeki

REVIEWED E. Drakos

Section a-a
DETAIL 10-3C

Section a-a
DETAIL 10-3D

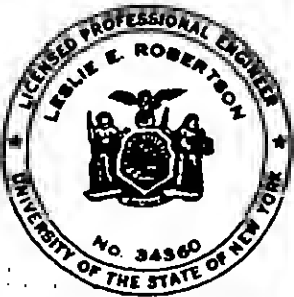
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Structural & Civil Engineers

TITLE FL 107-P.H CONNECTION DETAILS-LINE 504608

DATE 4-1-70

7/9/70



DESIGNED

DRAWN
V.H.A.

REVIEWED
E. Drakos

9-AB/8-3.7

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

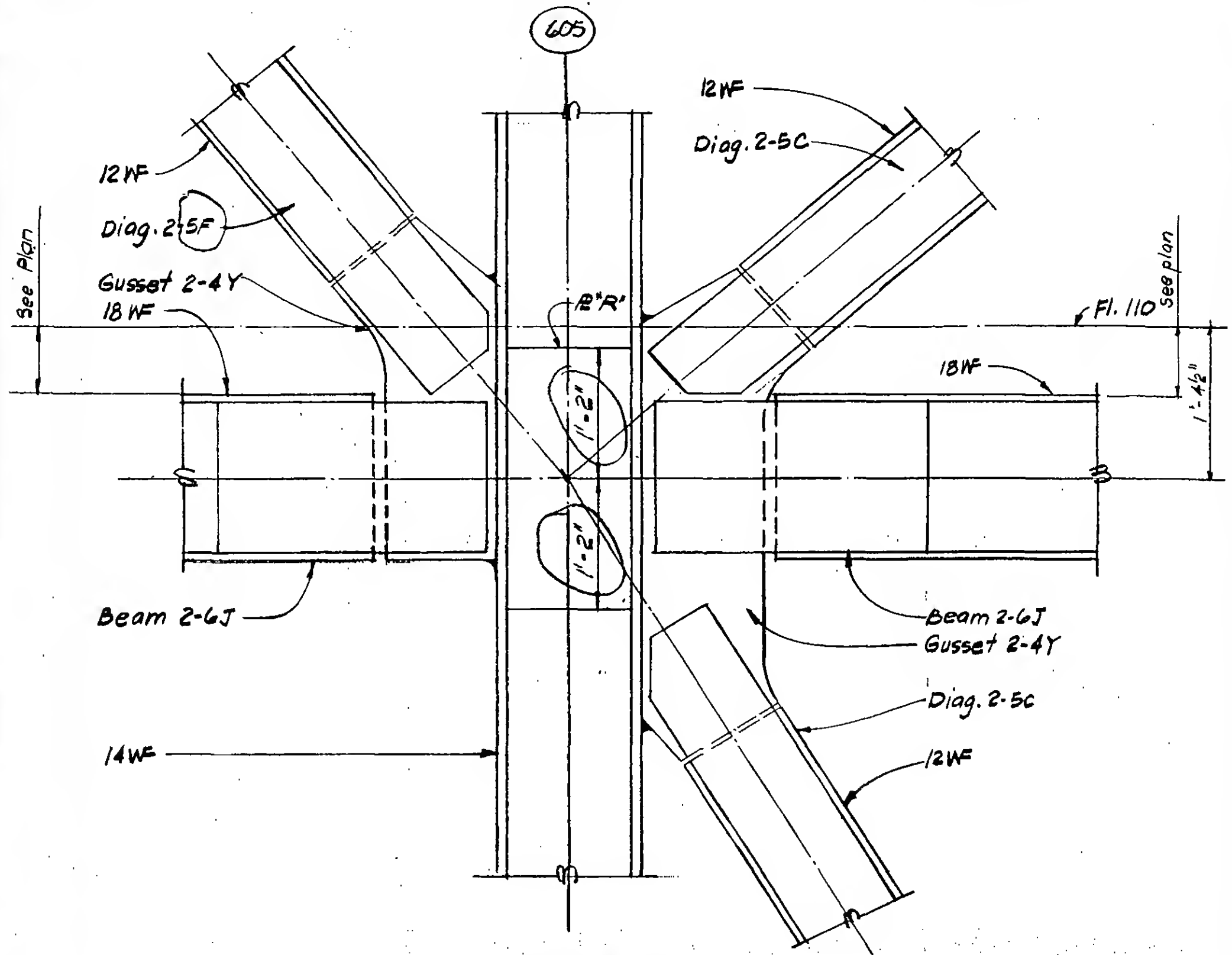
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TITLE FL. 107-PH. CONNECTION DETAILS-LINES 04 & 05

DATE 4-1-70

REVISIONS

7/9/70



Section b2-b2



DESIGNED

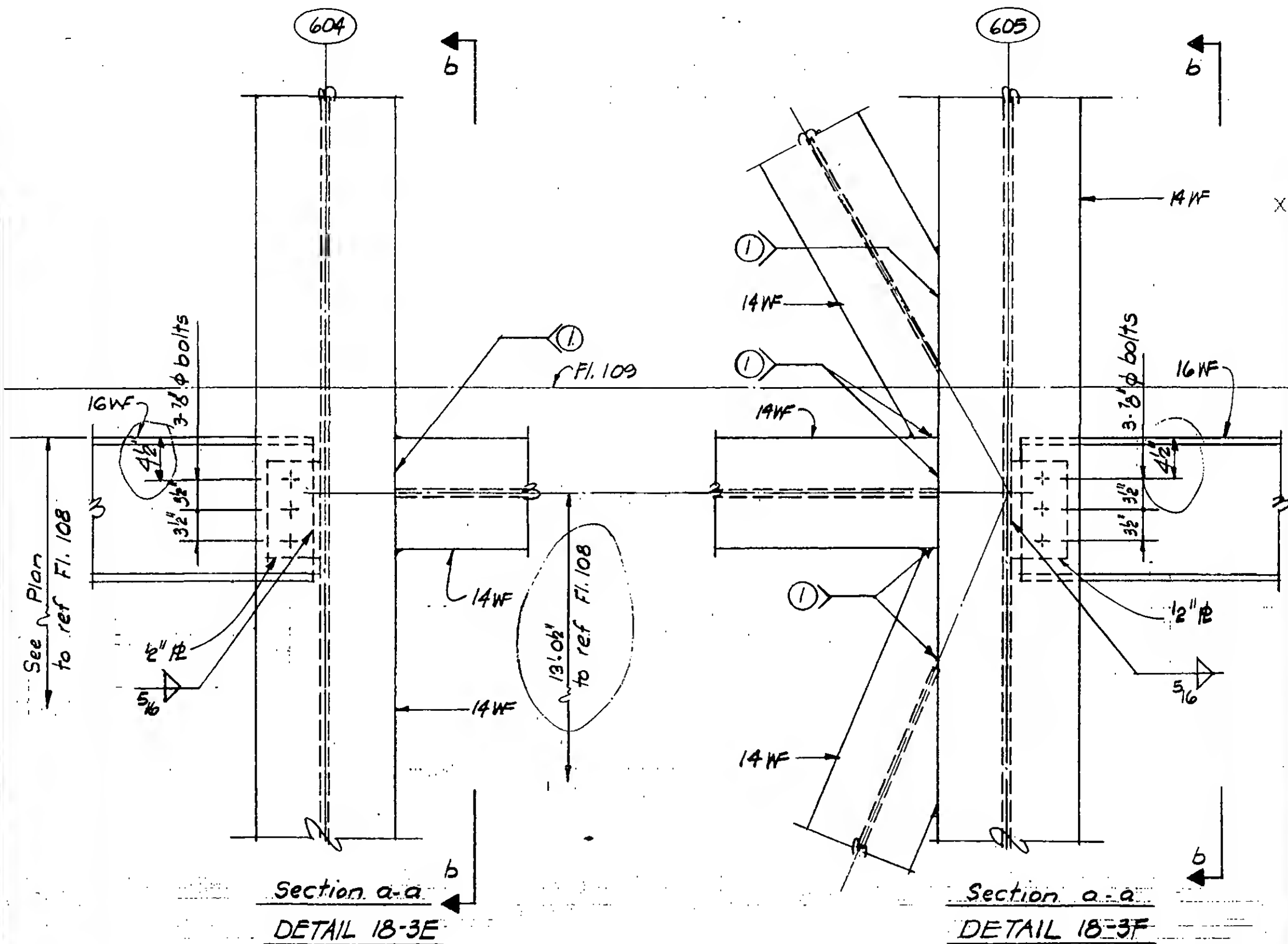
DRAWN P.M. Ozeki

REVIEWED E. Orakos

9-AB-18-30

REVISIONS

7/8/70



DESIGNED

DRAWN
P.M. Ozek

REVIEWED
E. Drakos

9-AB/B-39

PROJECT

THE WORLD TRADE CENTER

TITLE

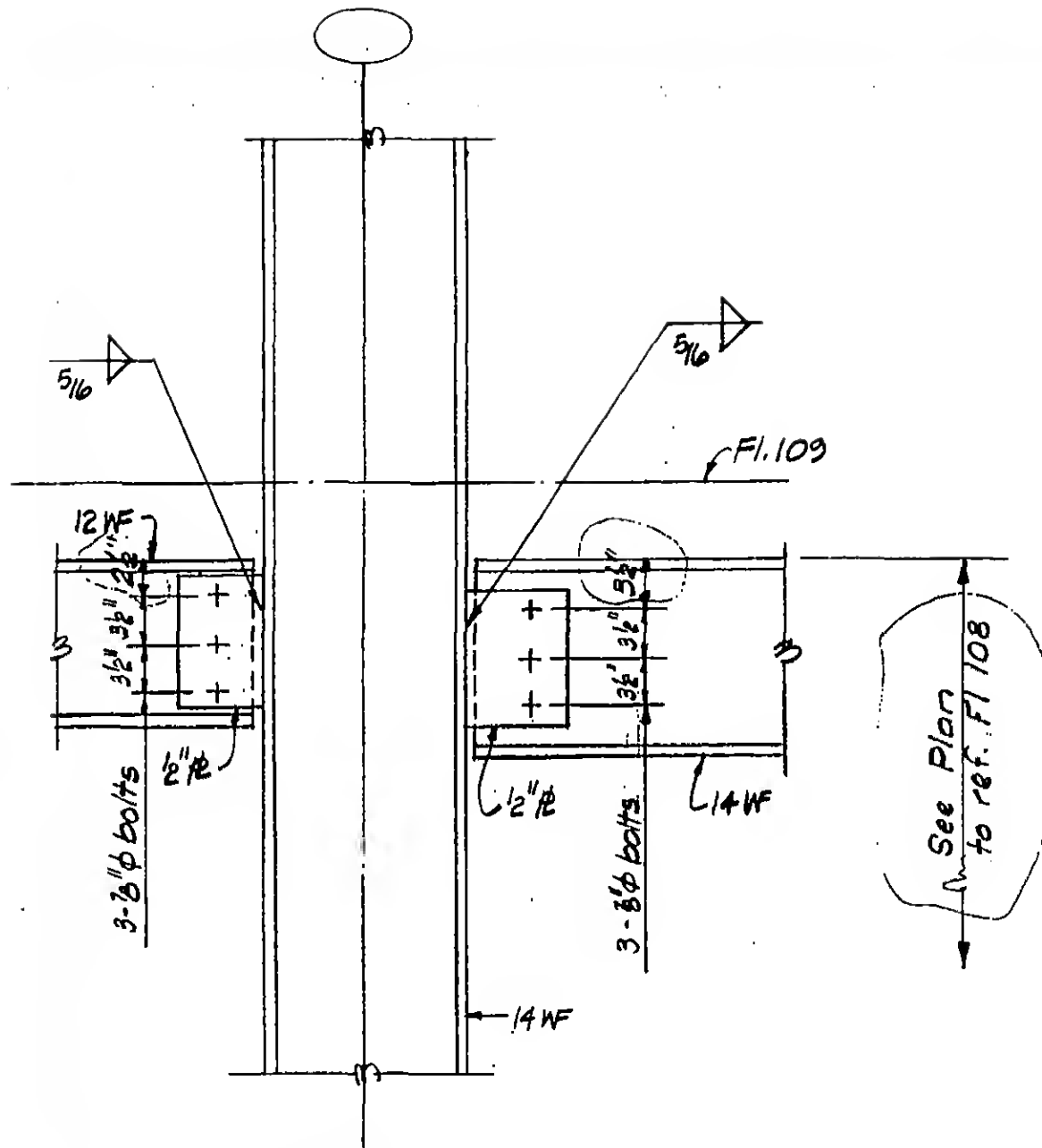
FL. 107-PH. CONNECTION DETAILS - LINES 04/05

DATE

4-1-70

REVISIONS

7/8/70



SECTION b-b



DESIGNED

DRAWN

P.M. Ozeki

REVIEWED

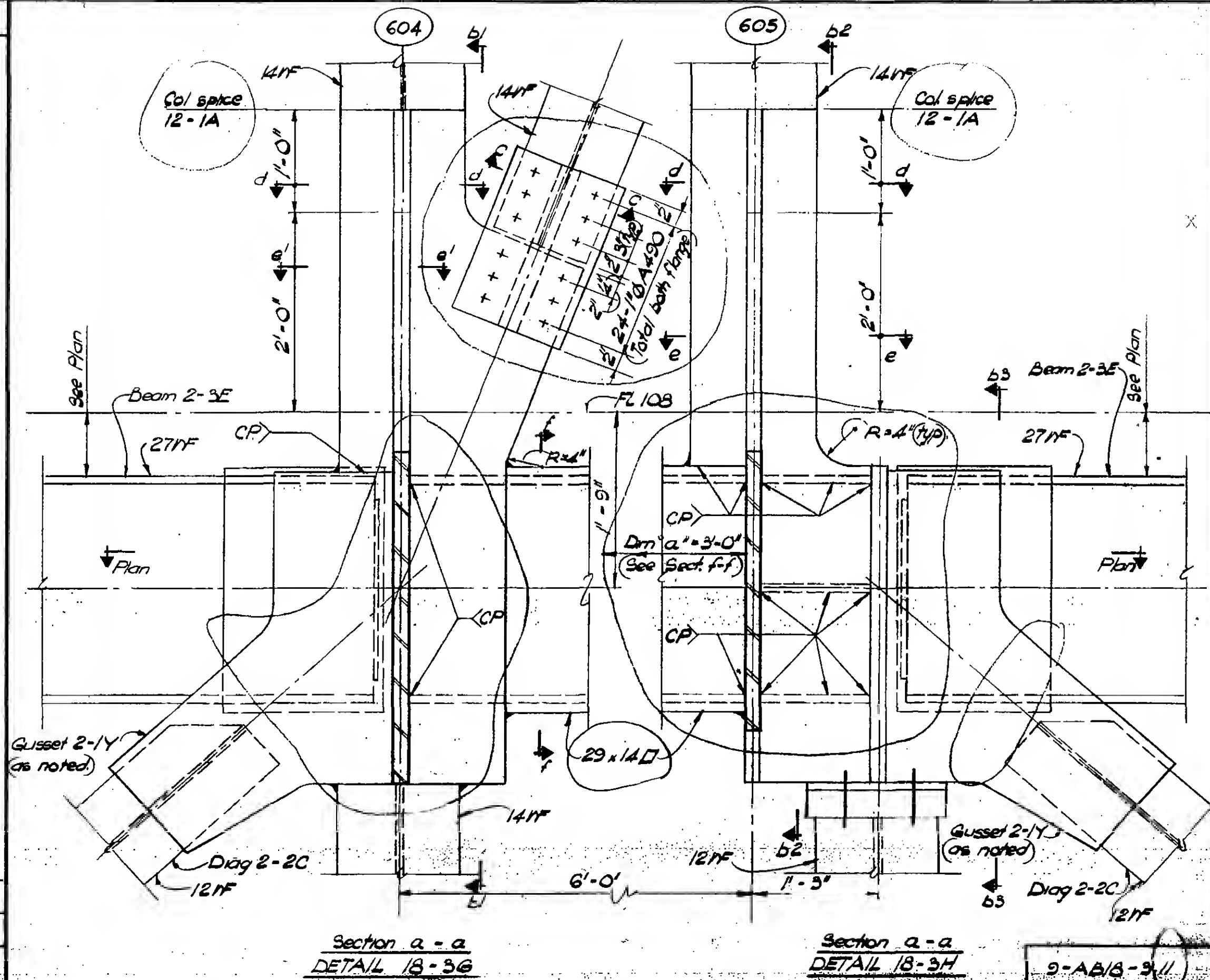
E. Drakos

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REVISIONS

7/8/70



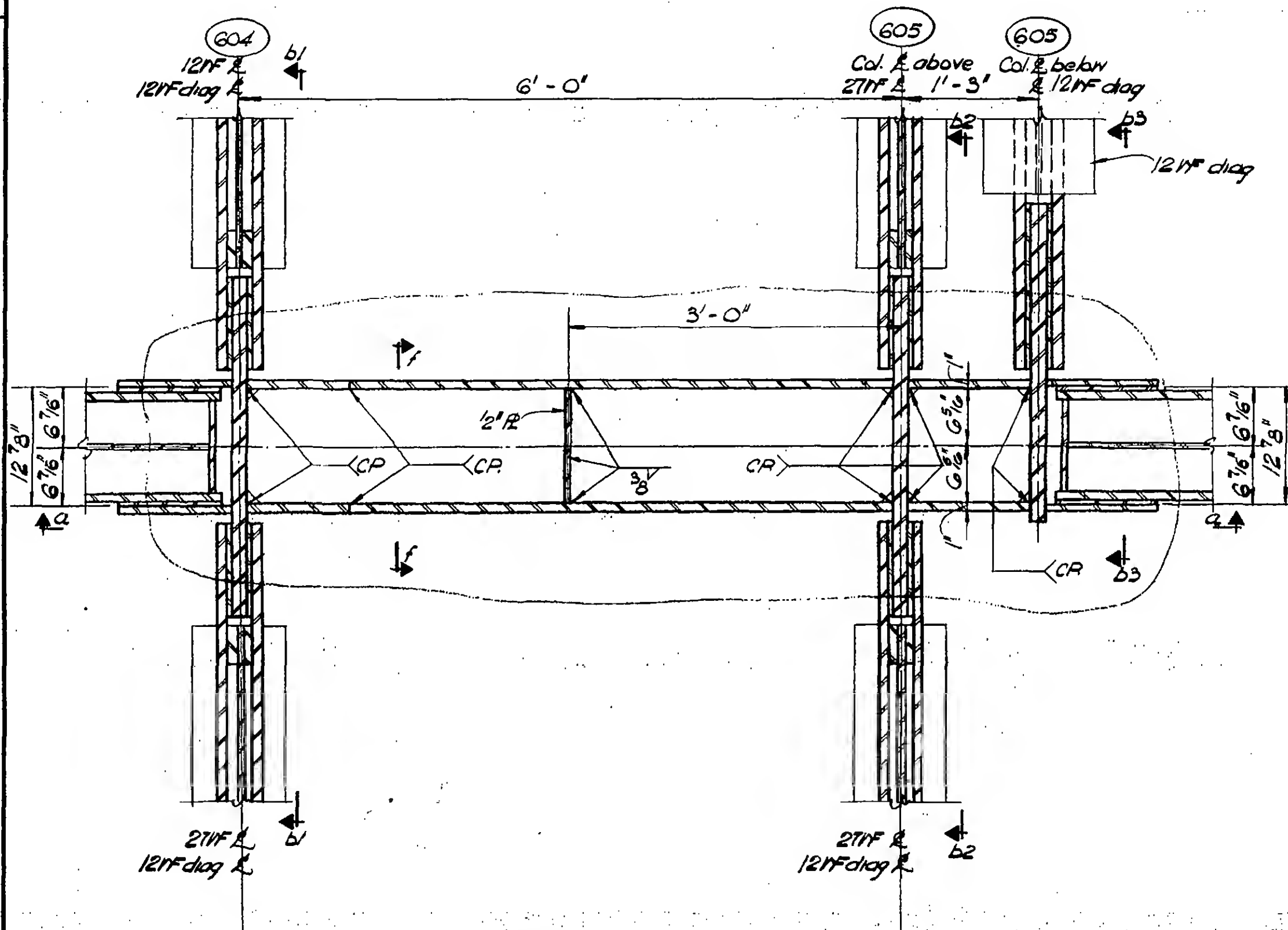
PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - LINES 04 & 05

DATE 4-1-70

REVISIONS

7/8/70



PLAN

DESIGNED

DRAWN

W. Clarke

REVIEWED

E. Drakos

9-AB/8-3/2

PROJECT

THE WORLD TRADE CENTER

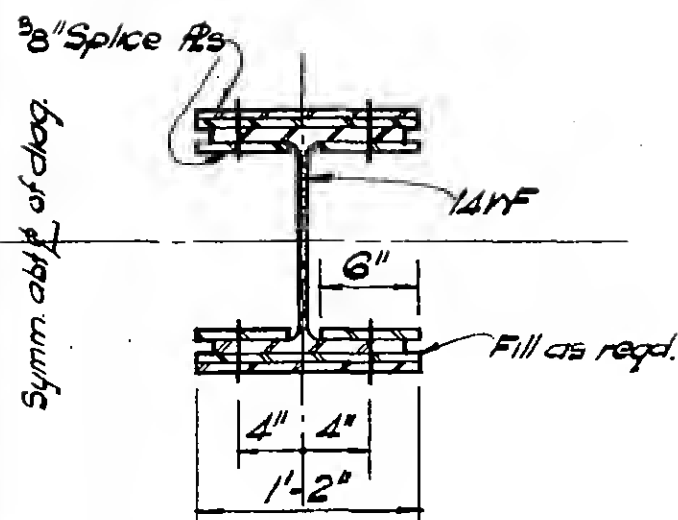
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FL 107 - PH CONNECTION DETAILS - LINES 04405

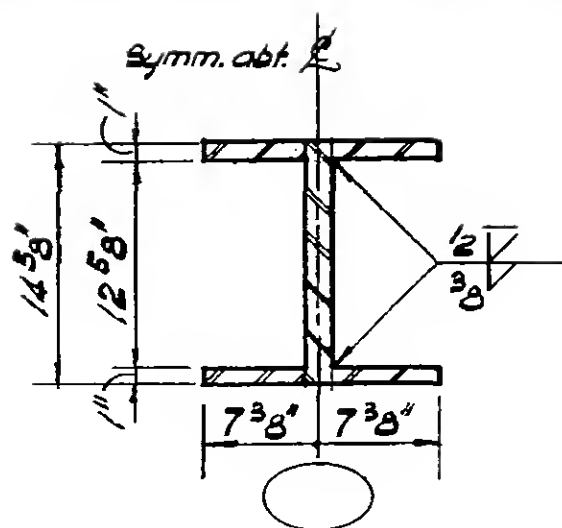
DATE

7/8/70

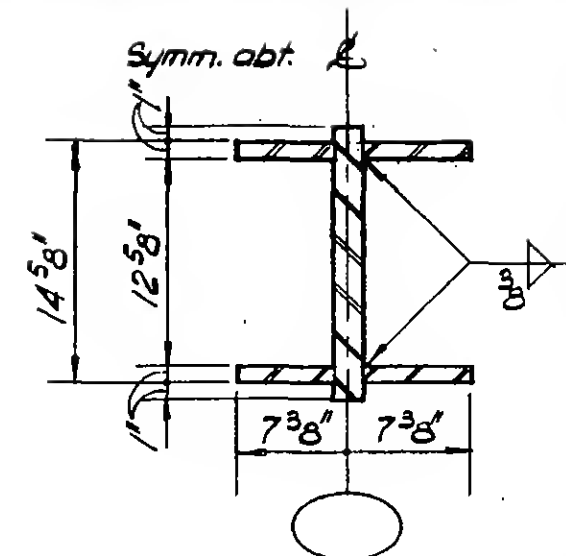
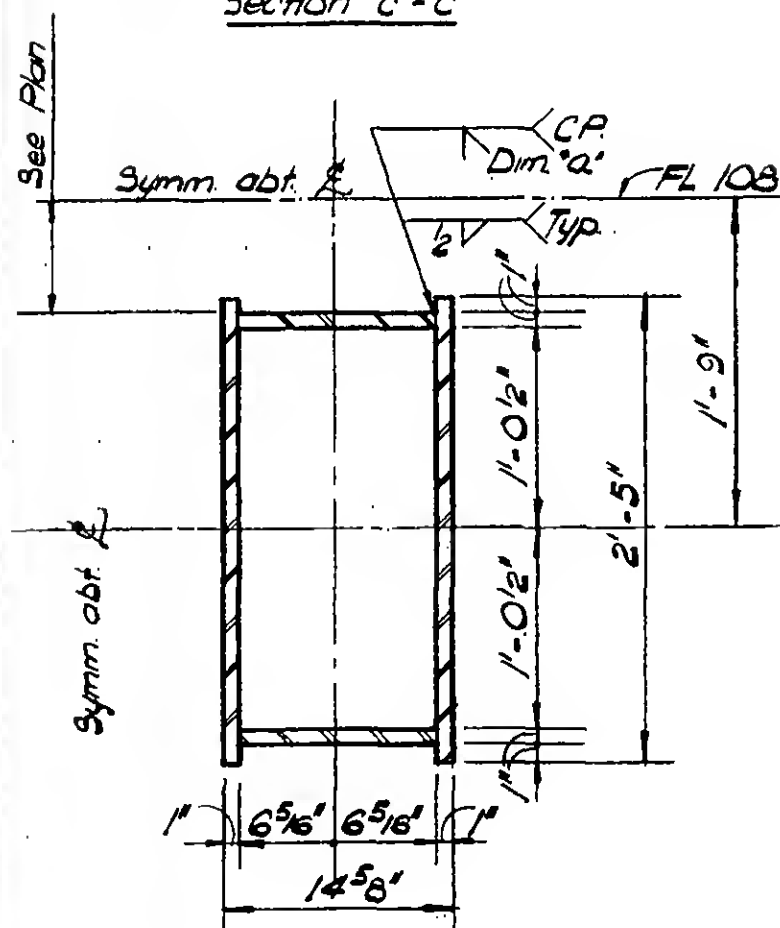
REVISIONS



Section C-C



Section d-d

Section e-e (as shown)
Section e'-e' (similar)Section f-f
(29 x 14 D)

DESIGNED

DRAWN

W. Clarke

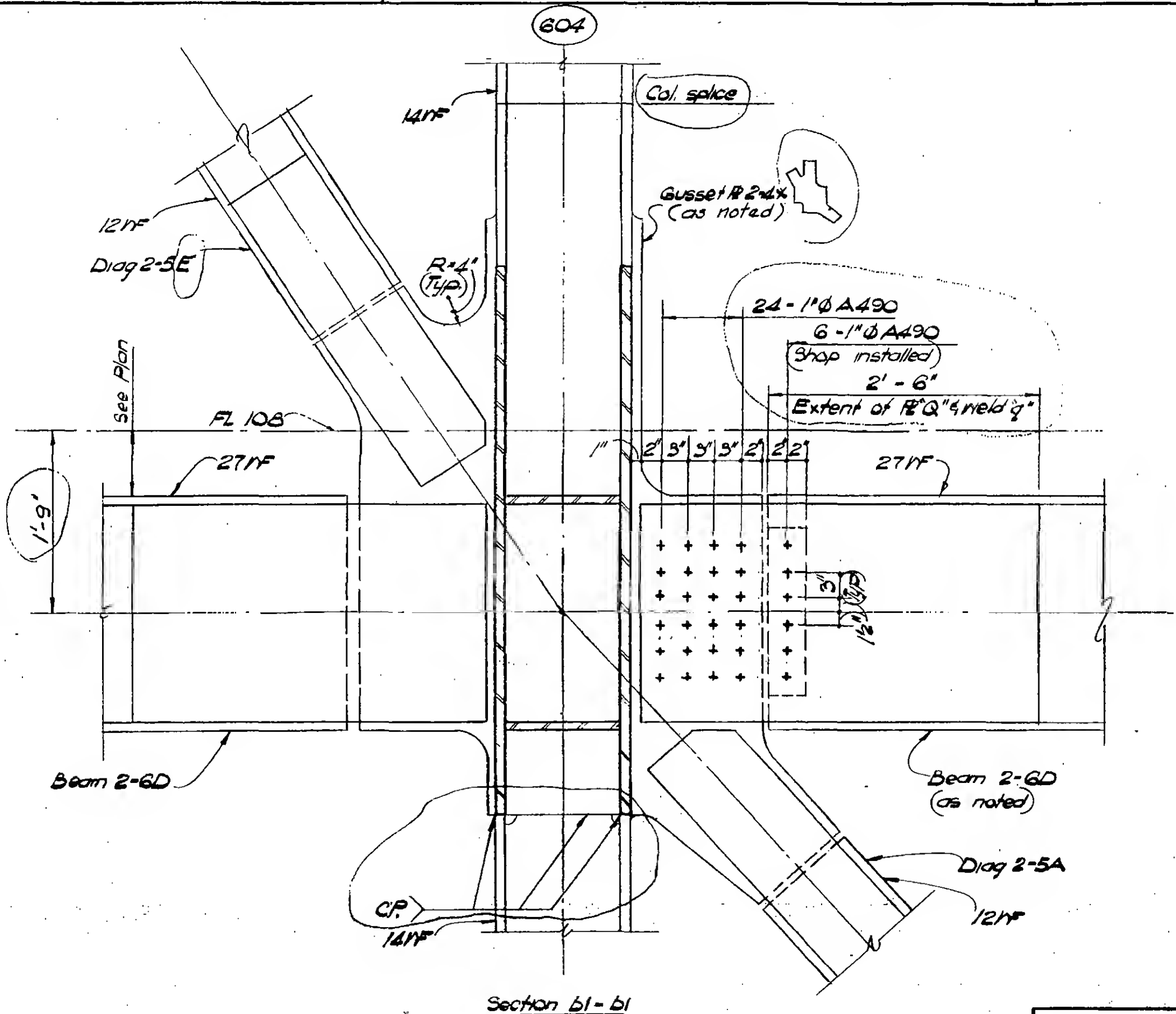
REVIEWED

E. Drakos

9-AB/B-3.13

REVISIONS

7/8/70



DESIGNED

DRAWN

F. Smith

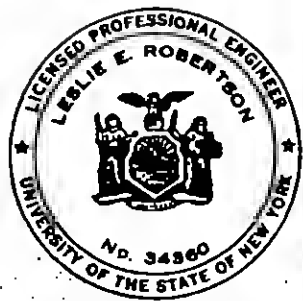
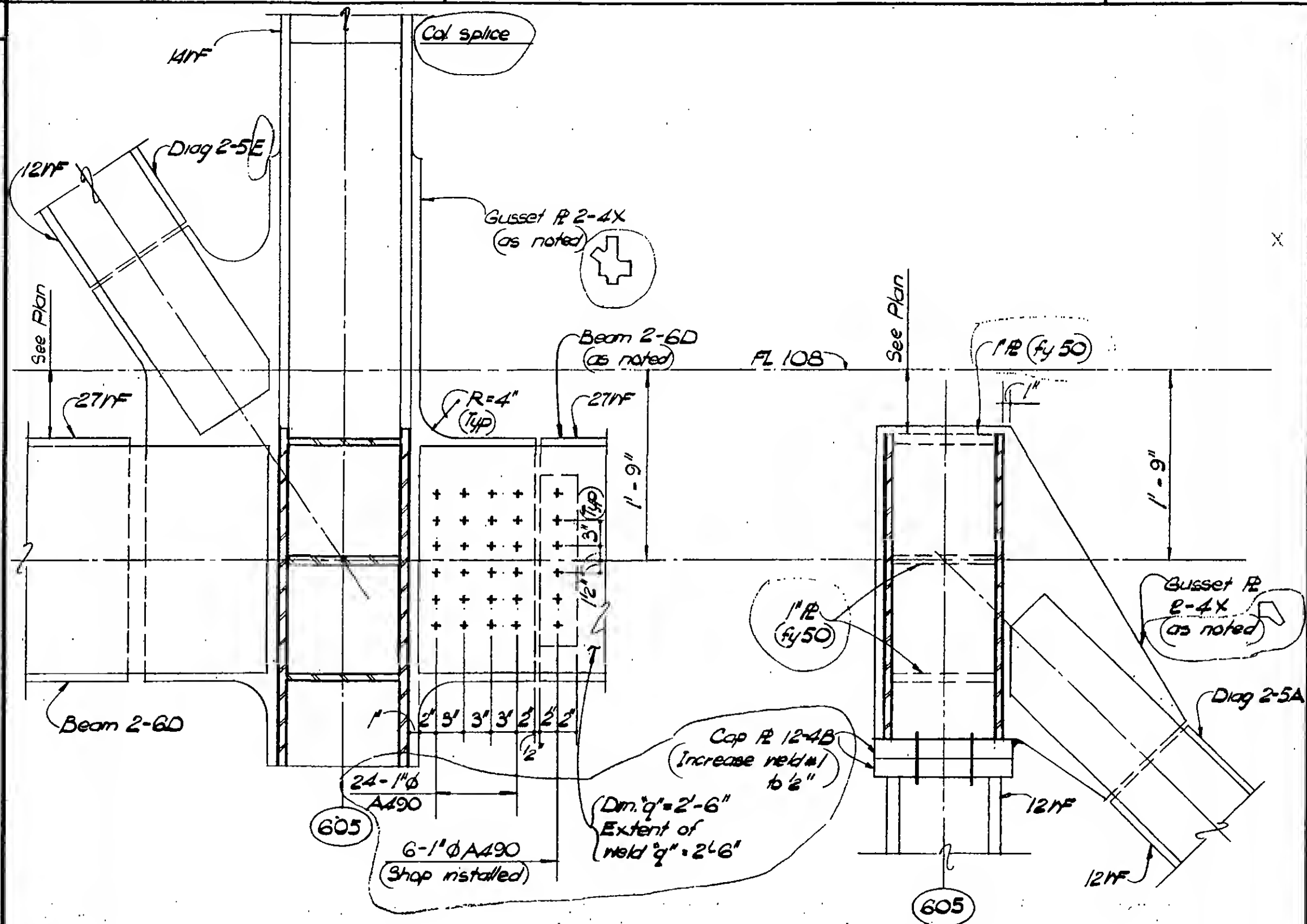
REVIEWED

E. Drakos

9-AB/8-3/4

REVISIONS

7/8/10



DESIGNED

DRAWN

W. Clarke

REVIEWED

E. Drakos

Section b2 - b2

Section b3 - b3

9-AB/8-3,15

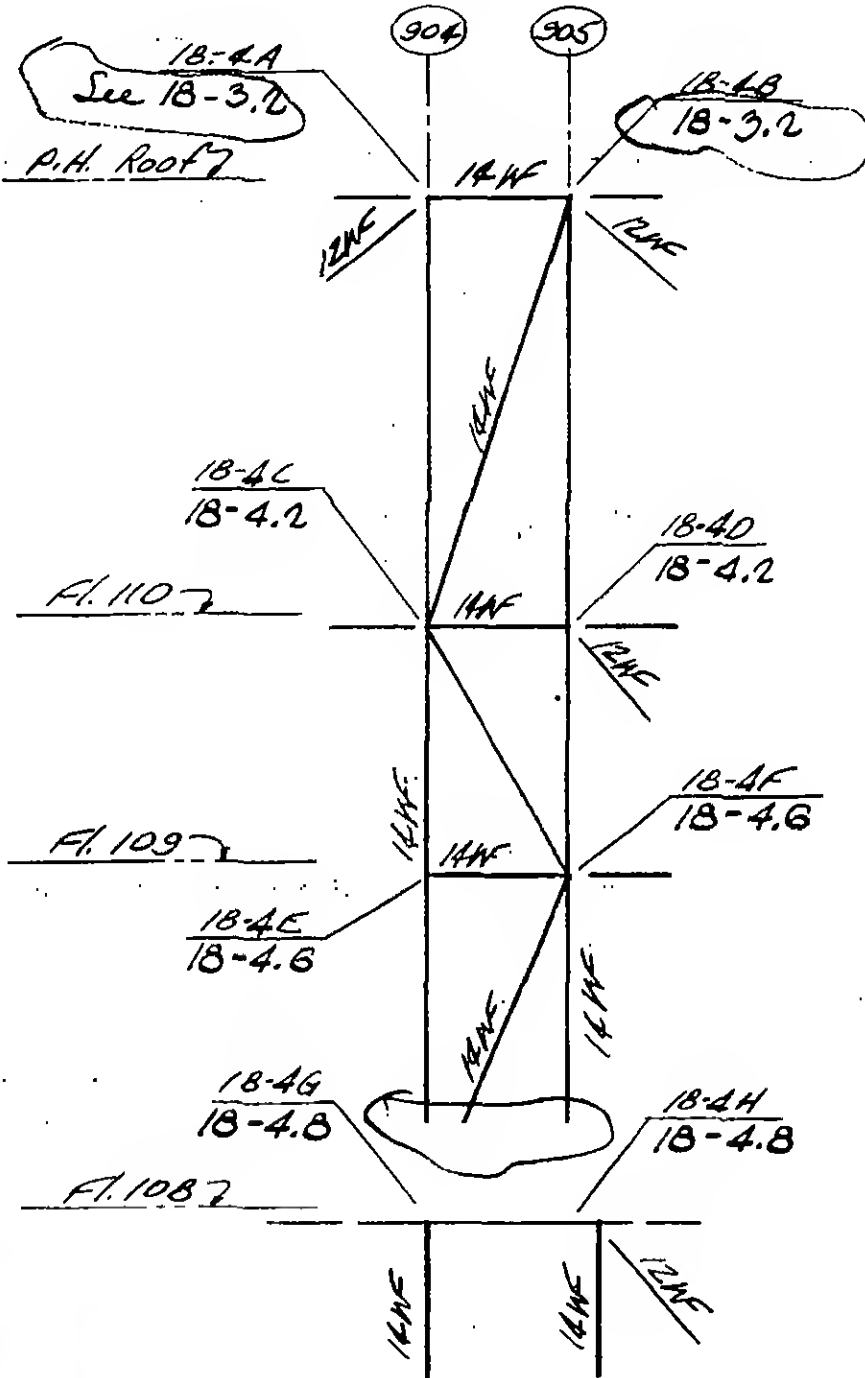
PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - LINES 04 & 05

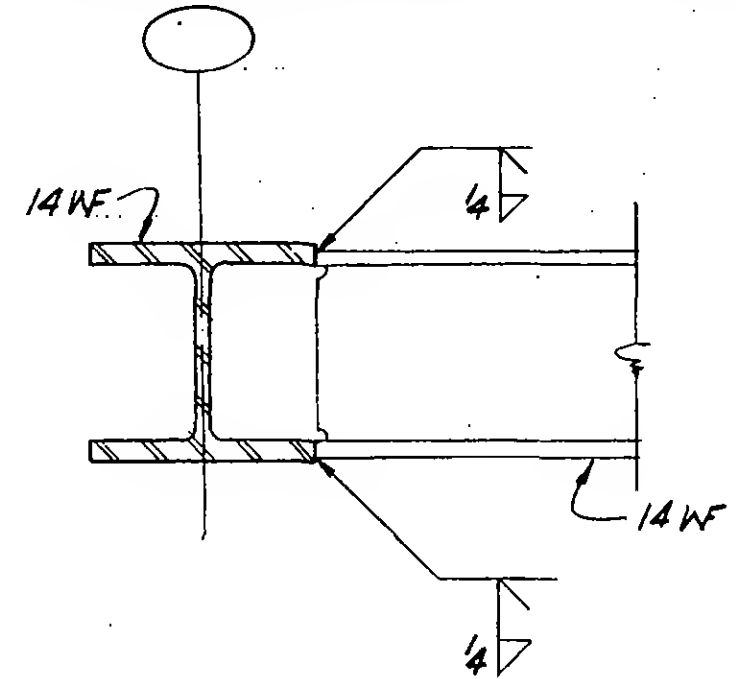
DATE 4-1-70

REVISIONS

7/9/70



DETAIL 18-4



Detail ①



DESIGNED

DRAWN

J. Adams

REVIEWED

E. Drakos

9-AB18-4.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

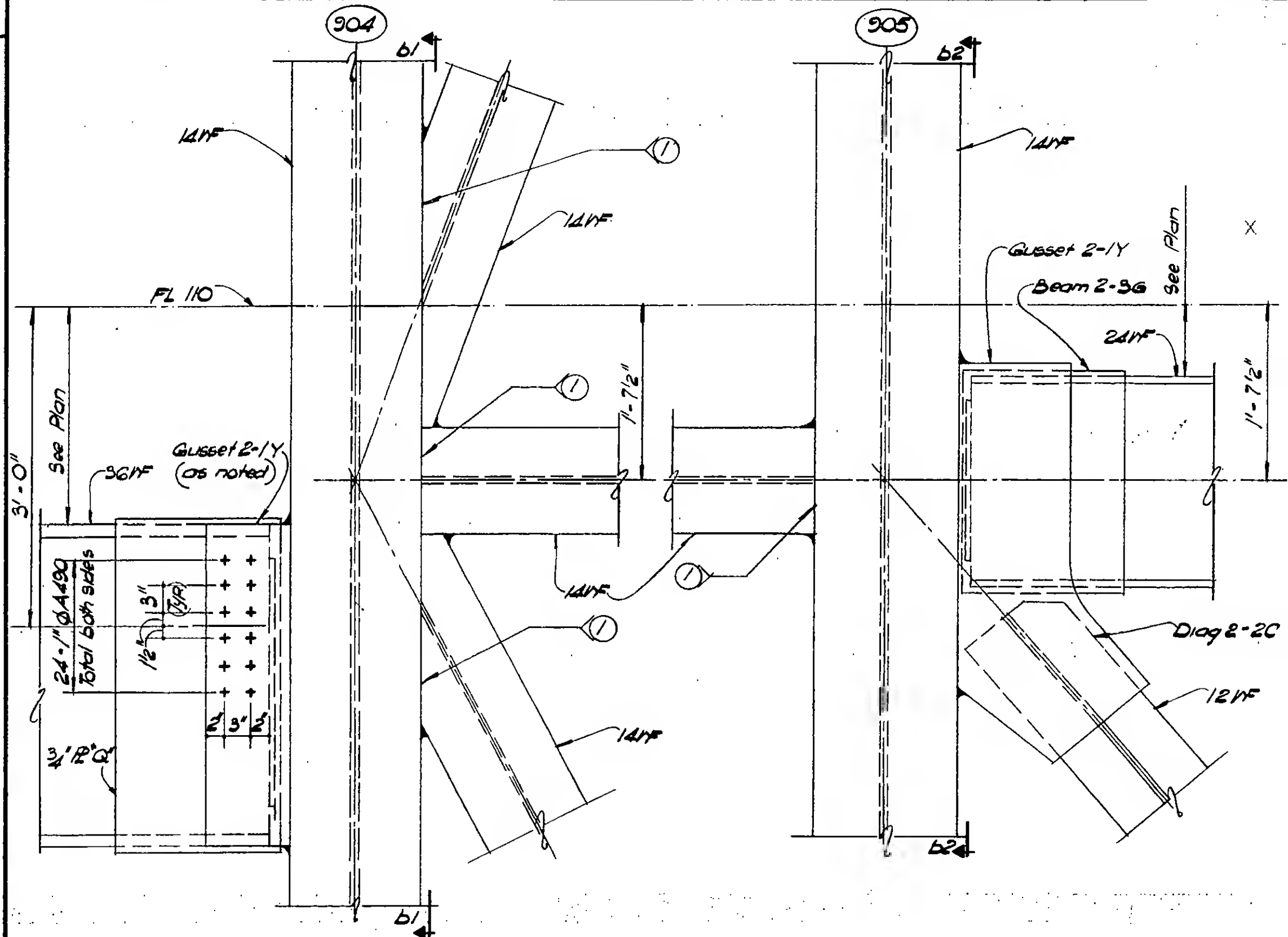
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS - LINES 04&05

DATE 7-9-70

REVISIONS



DESIGNED

DRAWN

N. Clarke

REVIEWED

E. Drakos

Section a-a
DETAIL 1B-4C

Section a-a
DETAIL 1B-4D

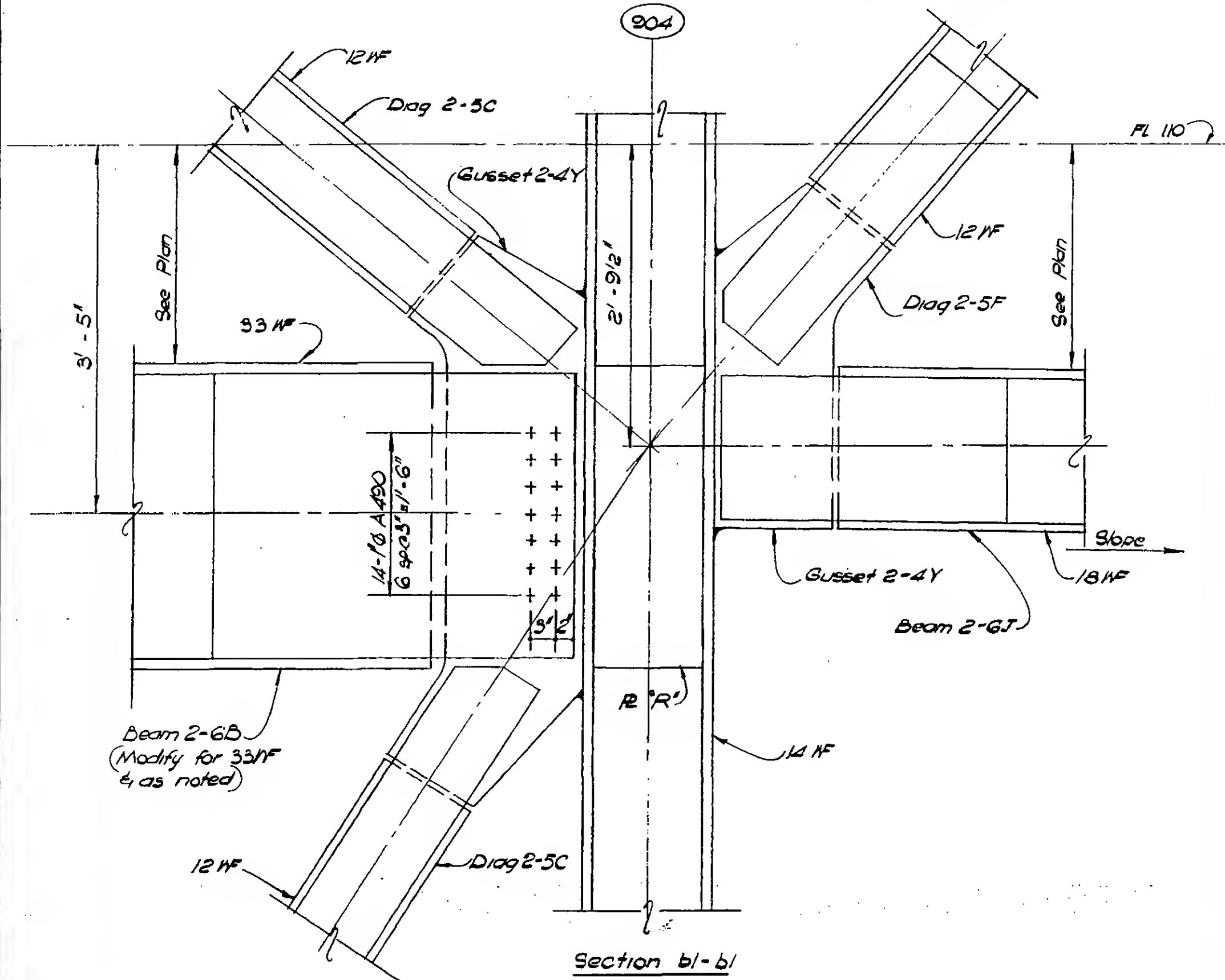
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PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS-LINES 04&05

DATE 7-9-70

REVISIONS

DESIGNED
A. PatelDRAWN
W. ClarkeREVIEWED
E. Drakos

9AB18-4.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

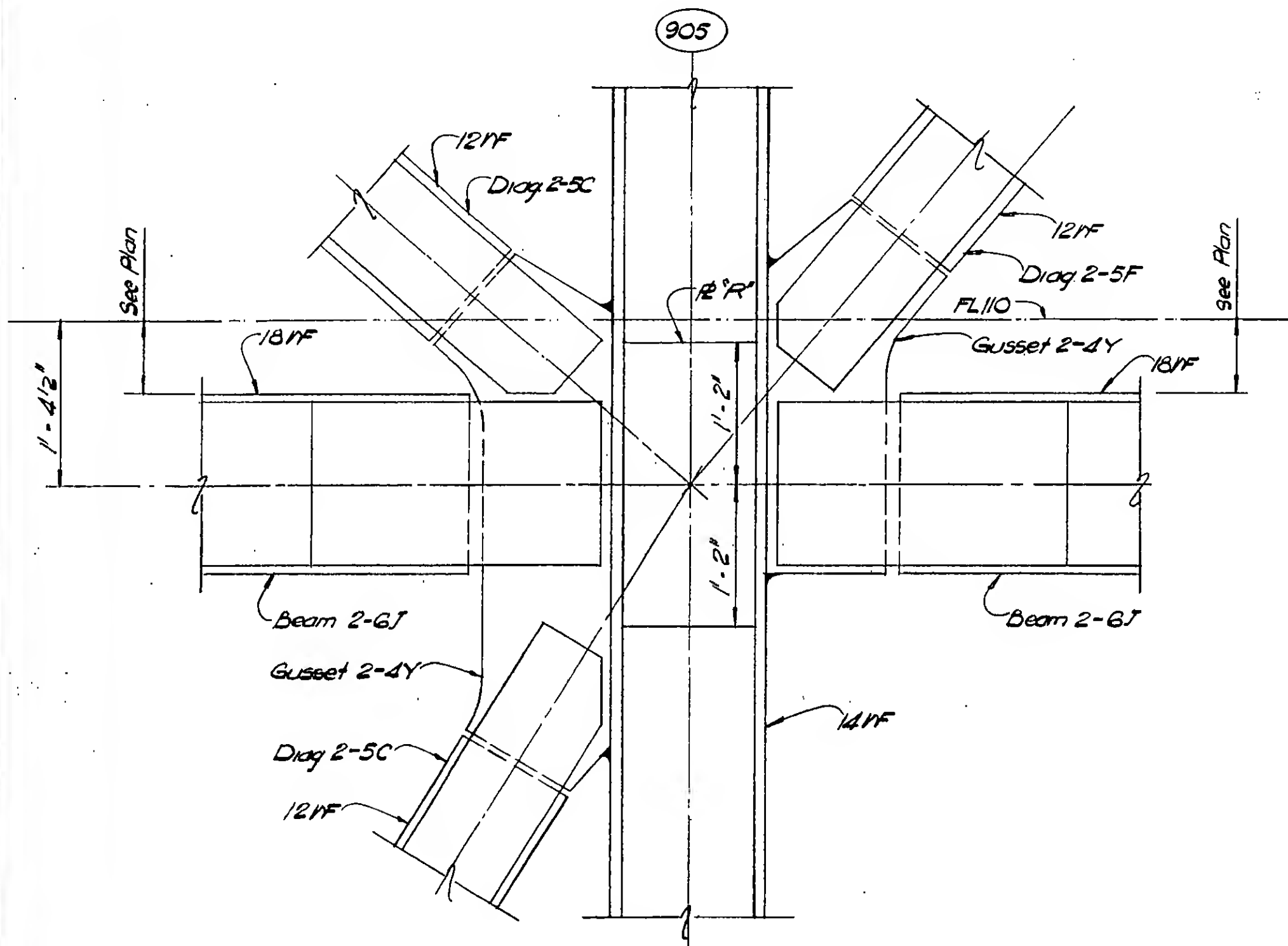
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - LINES 04405

DATE 7-9-70

REVISIONS



DESIGNED

DRAWN

N. Clarke

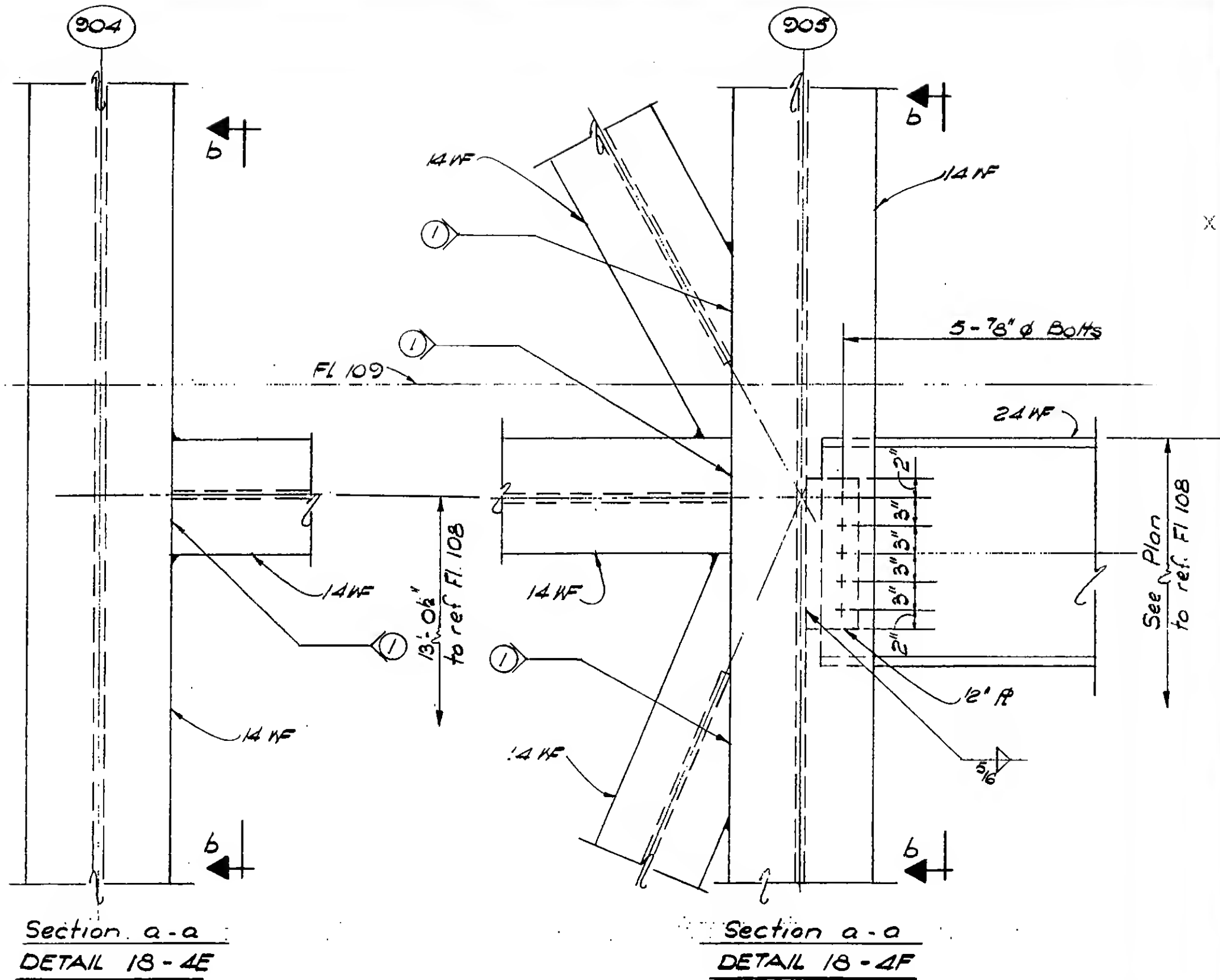
REVIEWED

E. Drakos

Section b2-b2

9-AB/8-4.4

REVISIONS



DESIGNED

DESIGNED
A. Patel

DRAWN

W. Clarke

REVIEWED

E. Drakos

9-AB/8-4.6

PROJECT

THE WORLD TRADE CENTER

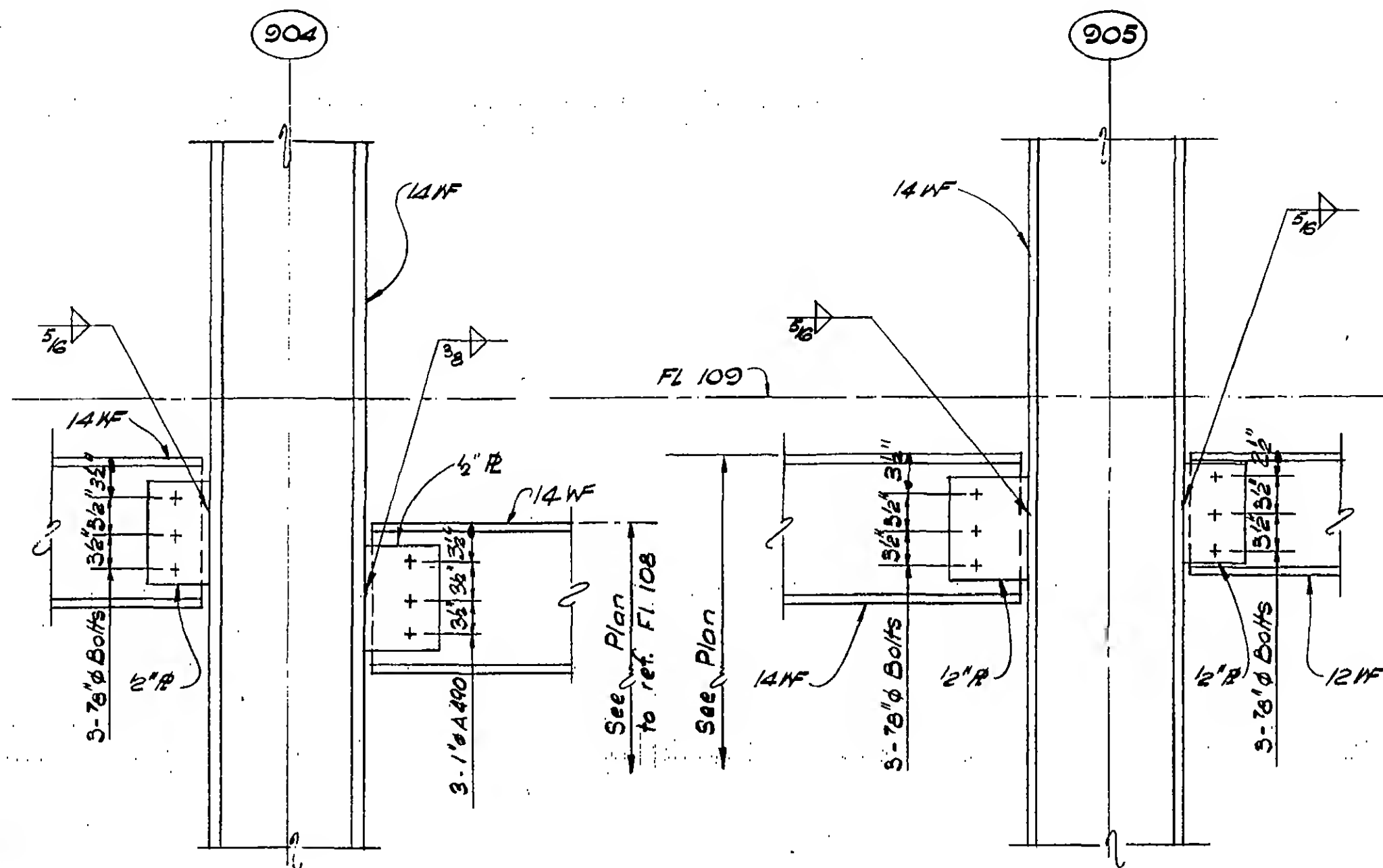
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FL 107 - PH CONNECTION DETAILS - LINES 04 & 05

DATE

7-8-70

REVISIONS

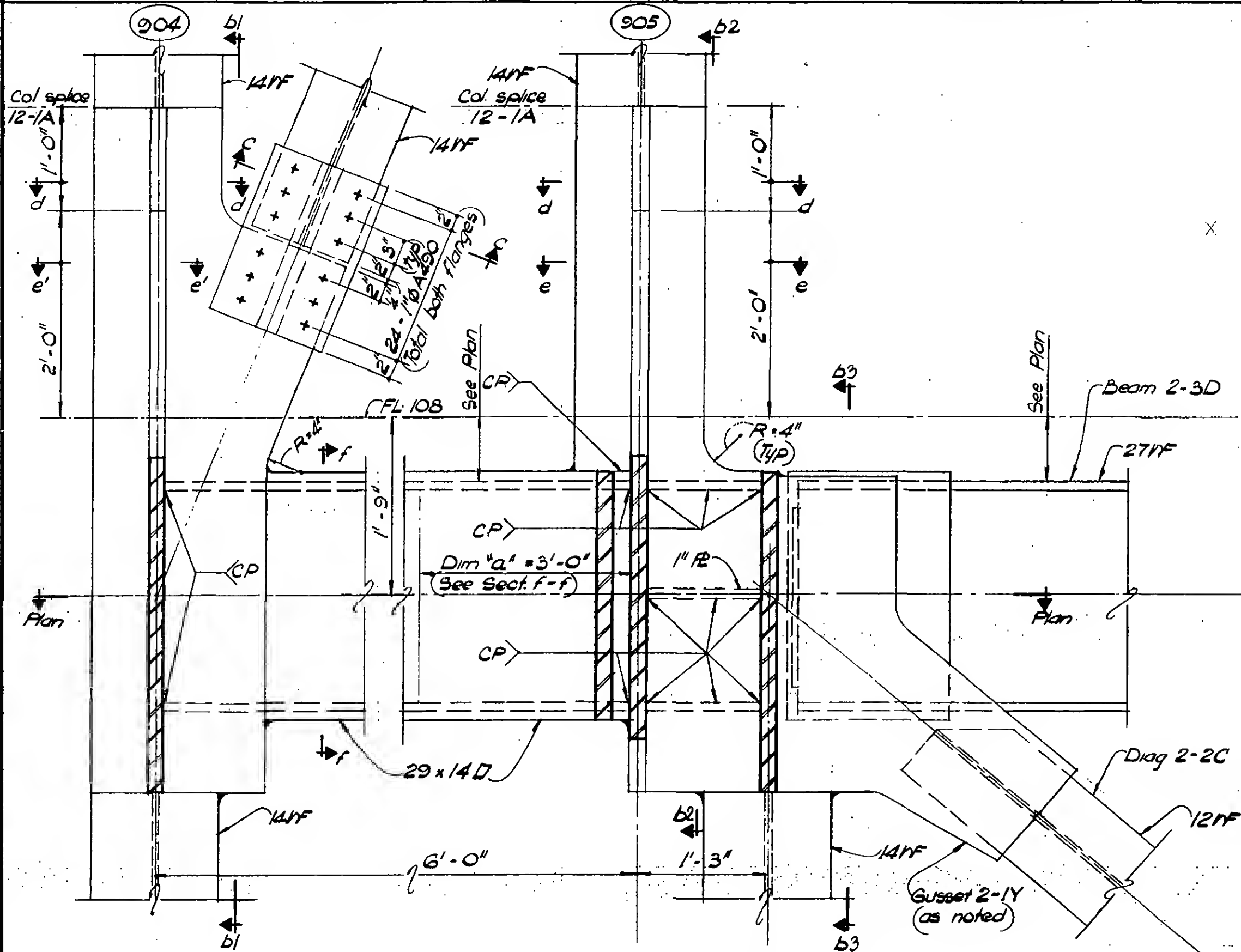
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A. PatelDRAWN
H. ClarkeREVIEWED
E. Drakos

9-AB/8-4:7

Structural & Civil Engineers

DATE 6-22-70

REVISIONS



DESIGNED

DRAWN

DRAWN
W. Clarke

REVIEWED

E. Drakos

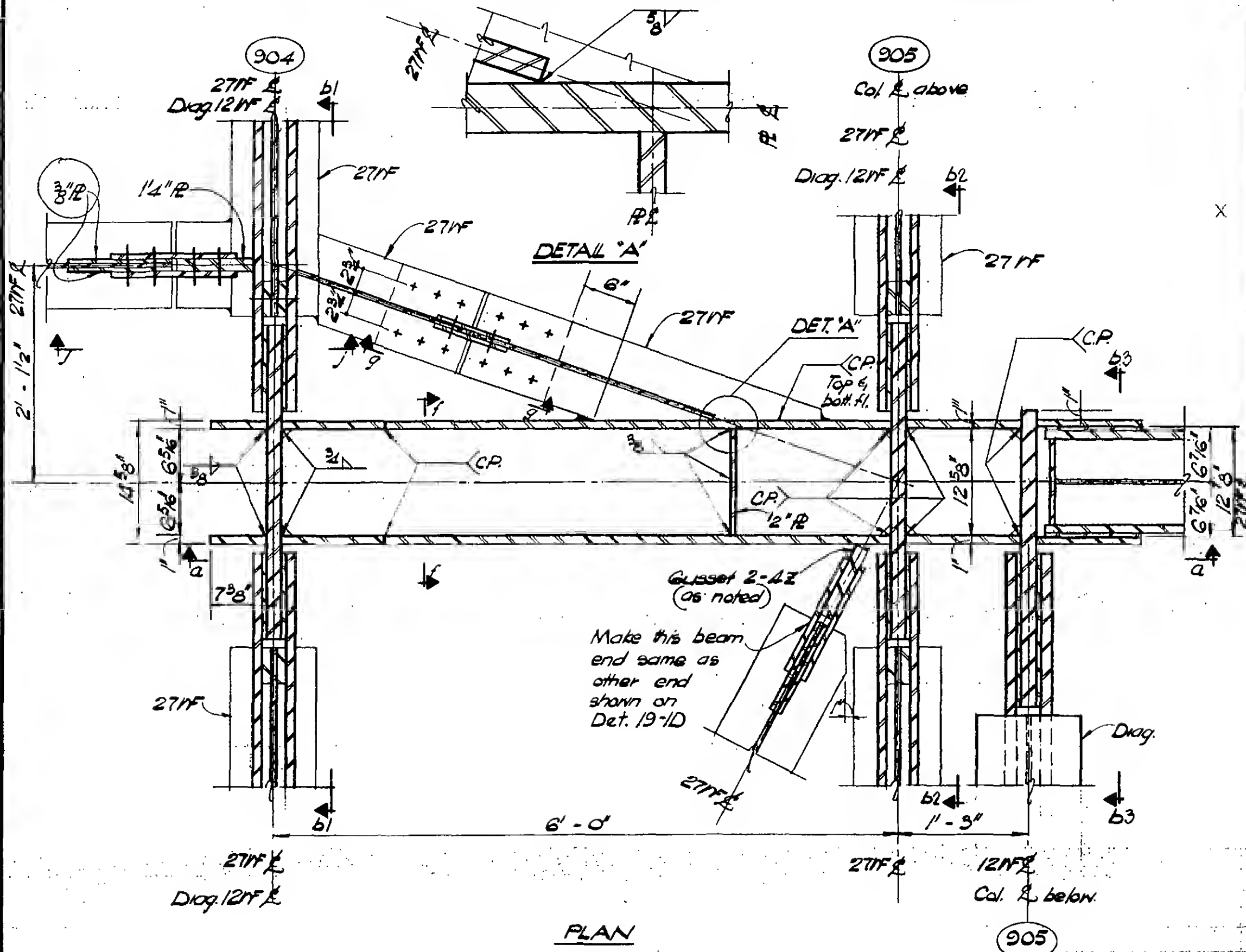
Section a-a
DETAIL 18-4G

Section a-a
DETAIL 18-4H

9 - AB/8-4.8

REVISIONS

7-15-70



DESIGNED

DRAWN

DRAWN
W. Clarke

REVIEWED

REVIEWED
E. Drakos

9-AB/8-4.9

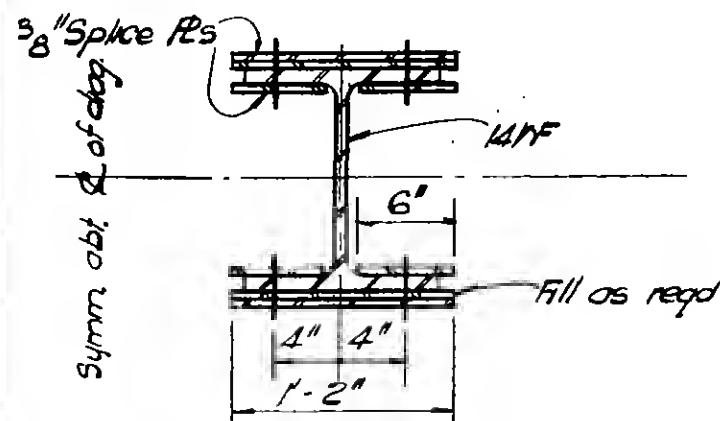
PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS - LINES 04405

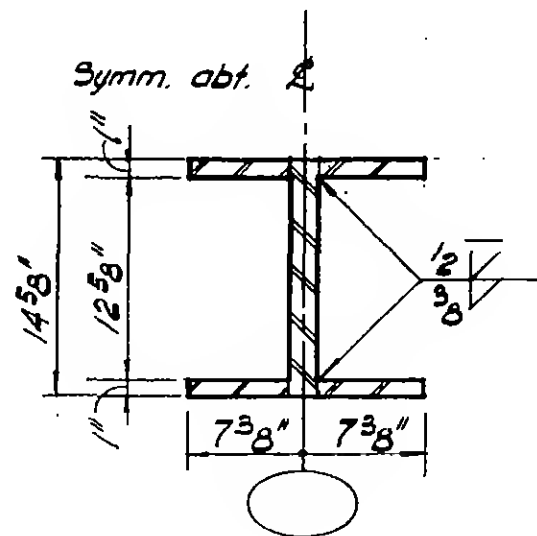
DATE 6-22-70

REVISIONS

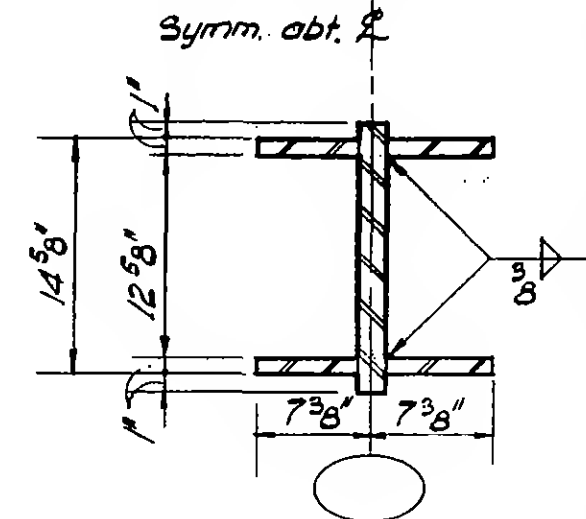
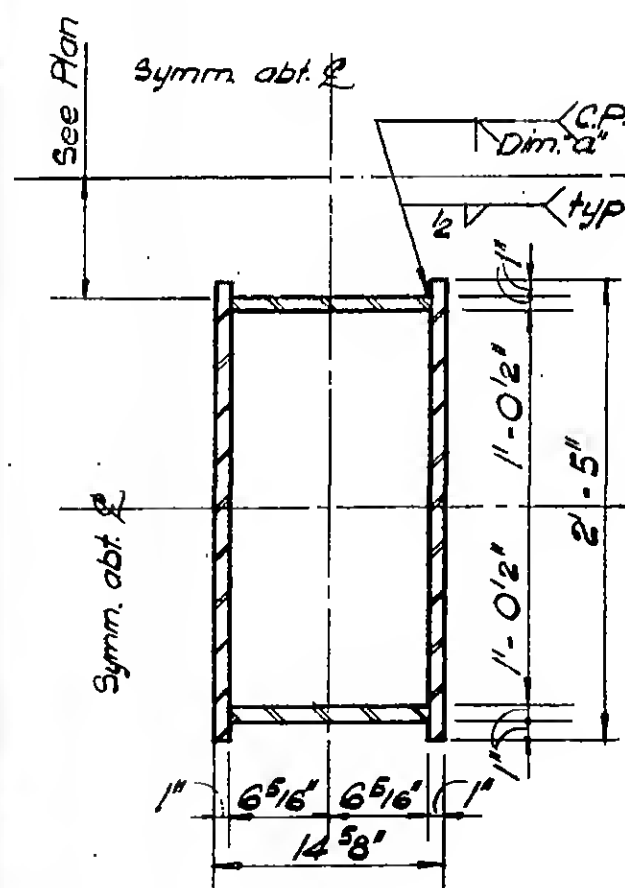
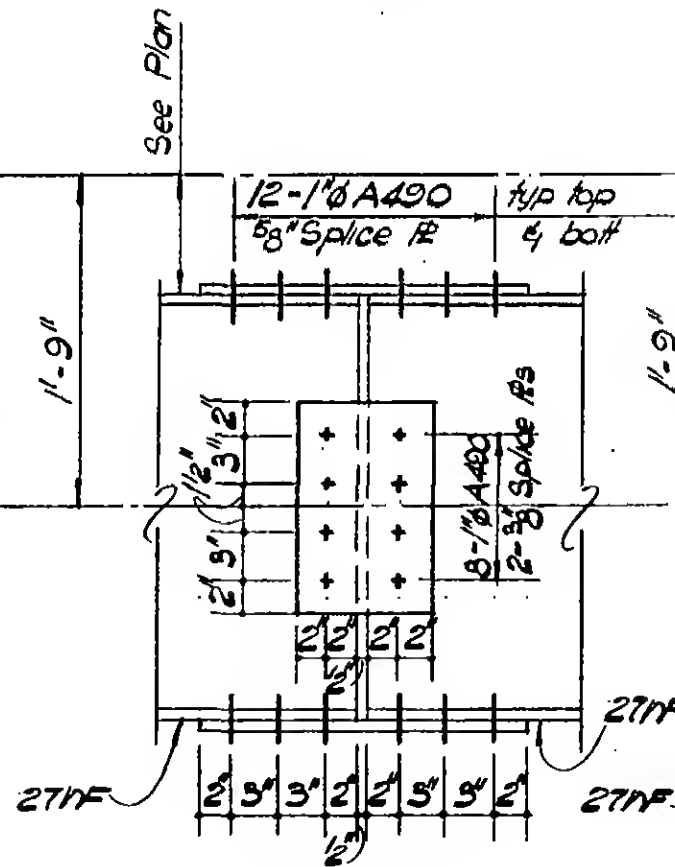
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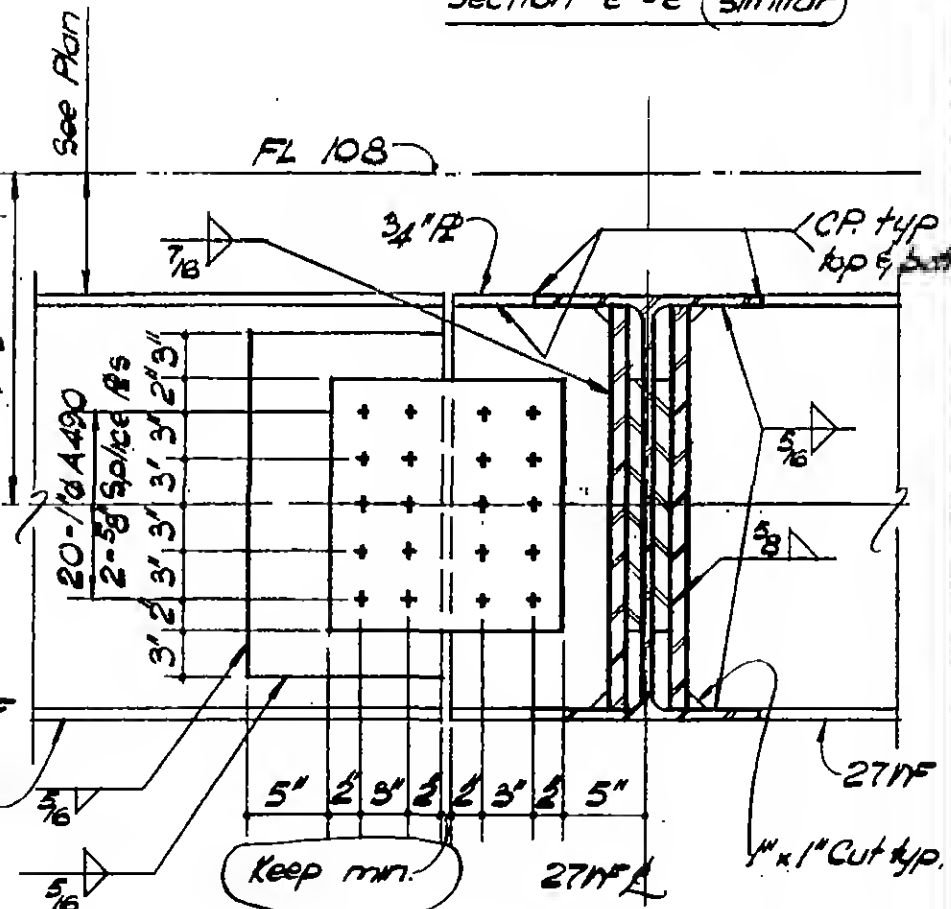
Section C-C



Section d-d

Section e-e (as shown)
Section e'-e' (similar)Section f-f
(29 x 14 D)

Section g-g



Section i-i



DESIGNED

DRAWN
W. ClarkeREVIEWED
E. Drakos

9-AB/8-4.10

PROJECT

THE WORLD TRADE CENTER

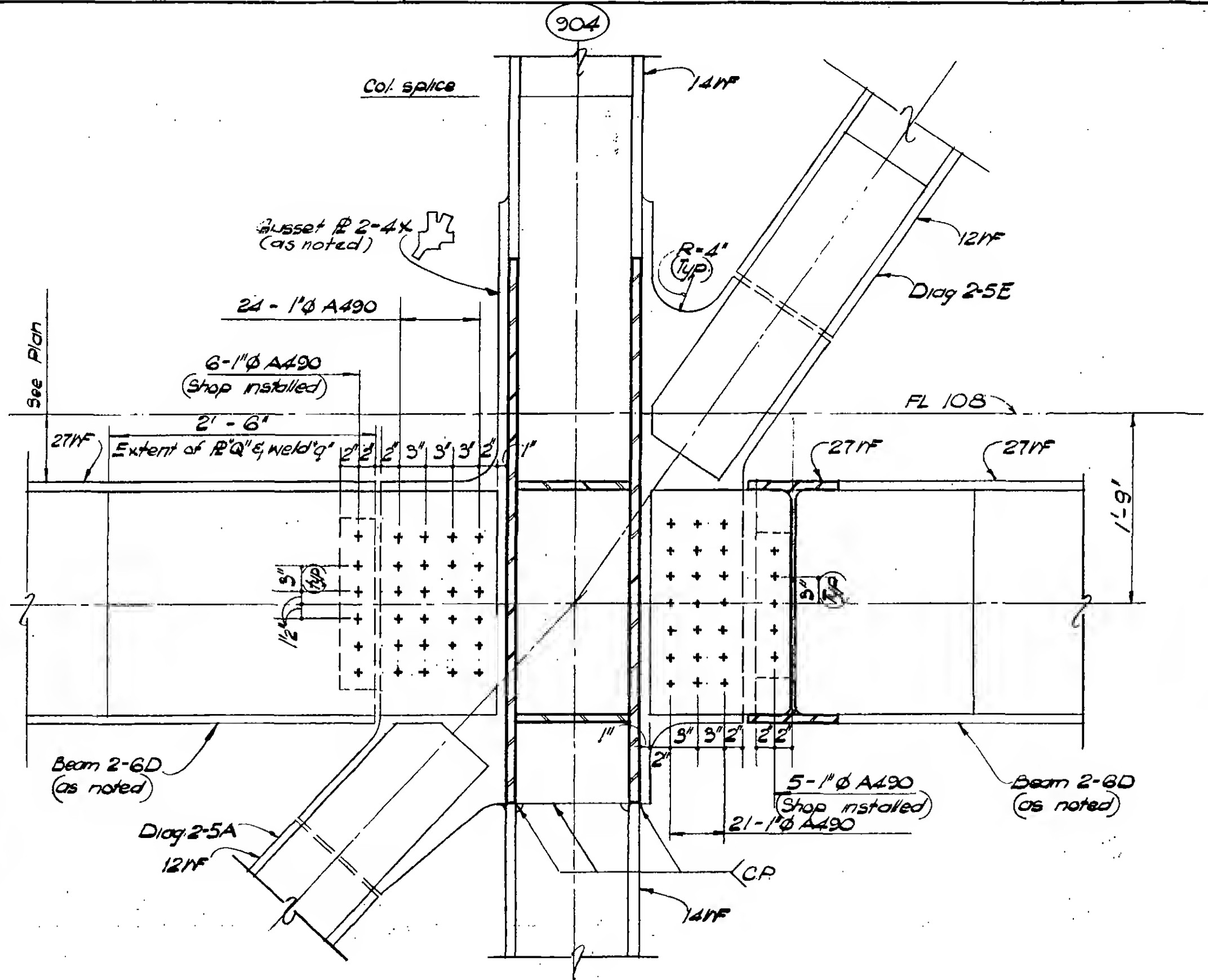
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FL 107 - PH CONNECTION DETAILS - LINES 04 & 05

DATE

7-8-70

REVISIONS



DESIGNED

DRAWN

N. Clarke

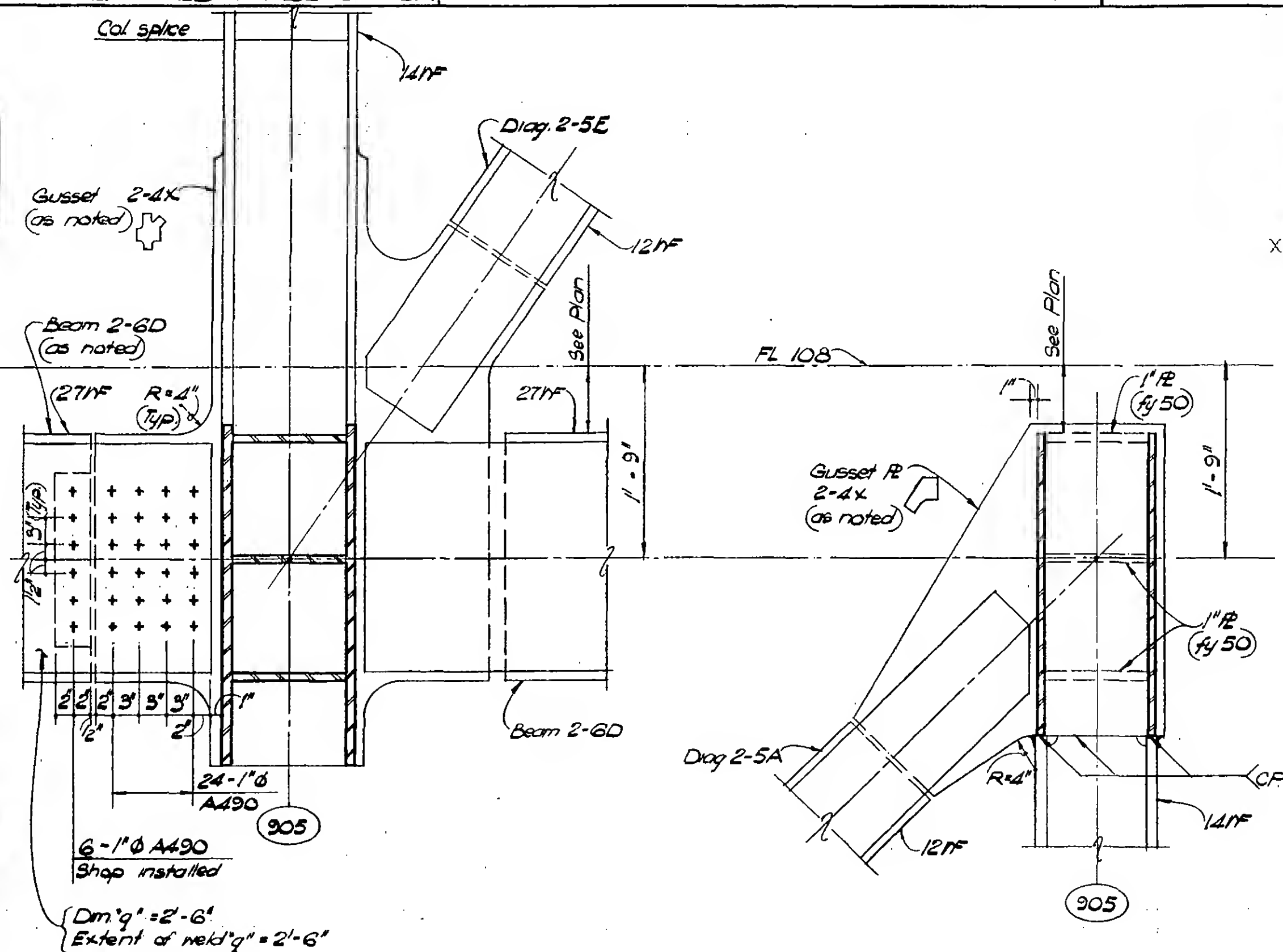
REVIEWED

E. Drakos

Section bl-bl

9-AB/B-4.11

REVISIONS



DESIGNED

DRAWN
N. Clarke

REVIEWED
E. Drakos

Section b2- b2

Section b3-b3

9-AB/8-4.12

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

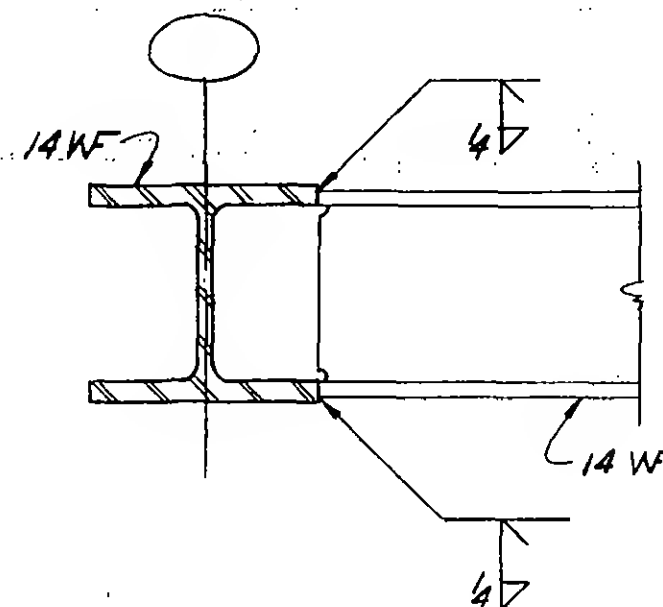
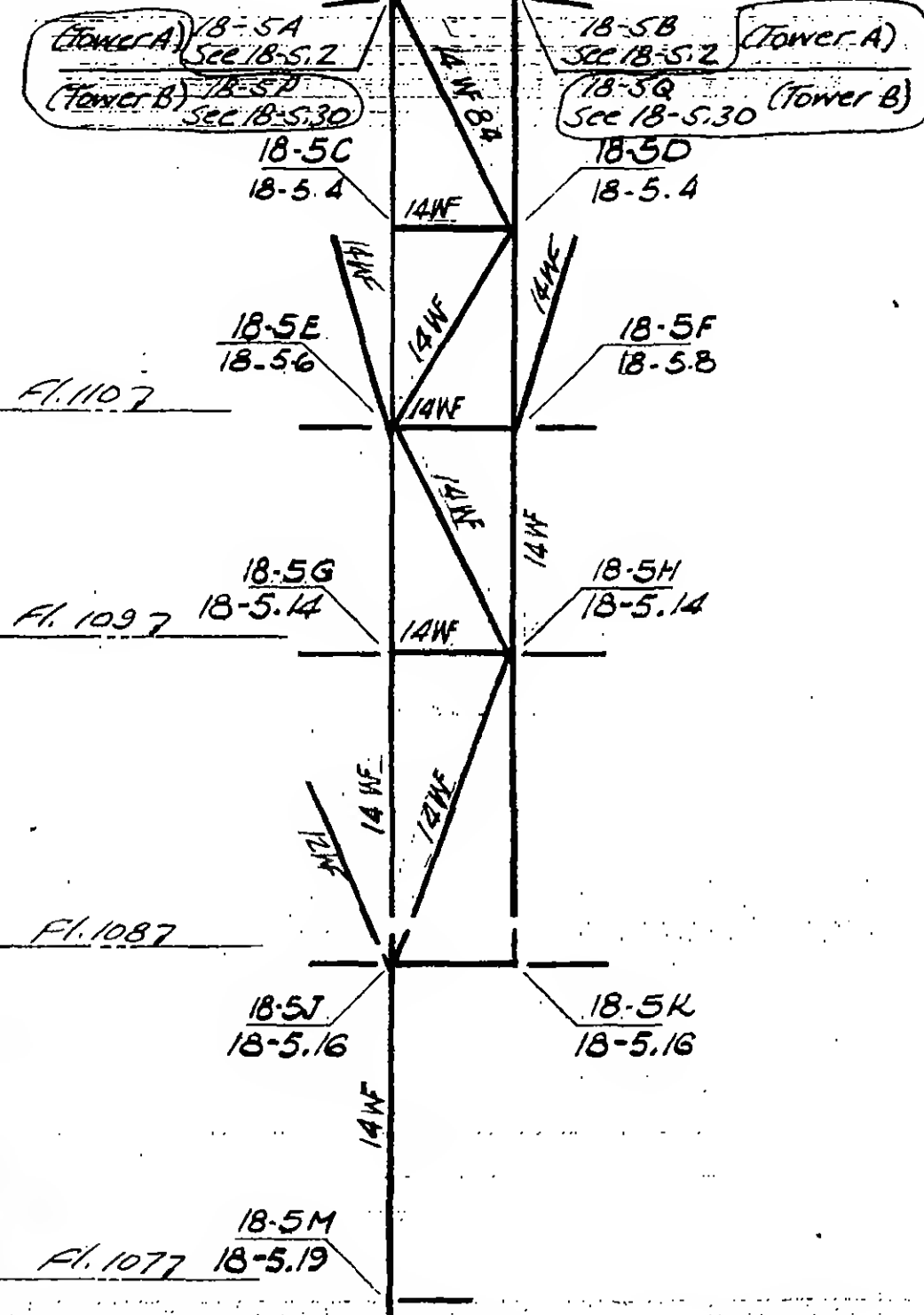
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DATE 4-1-70

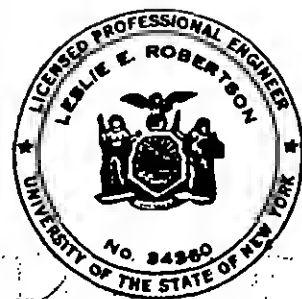
REVISIONS

7-10-70
12/14/70

P.H. Roof 7



Detail ①



DESIGNED

DRAWN

M. Nichols

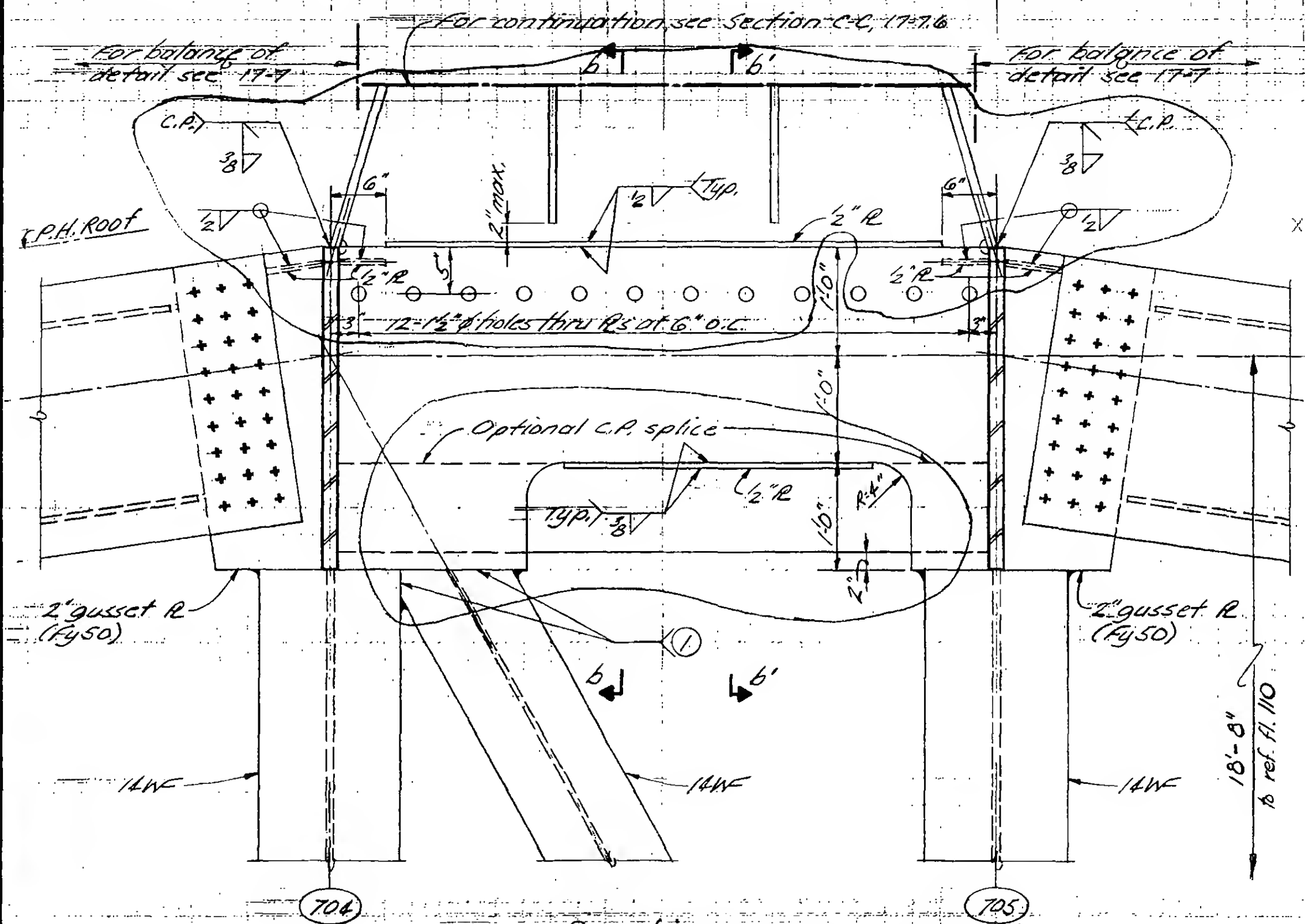
REVIEWED

DETAIL 18-5

9-AB/8-3

REVISIONS

7-10-70
10-12-70



Section a-a

Detail 18-5A

Detail 1B-5B

9-A 18-3,2



DESIGNED

^{BROWN}
J. Adams

REVIEWERS

PROJECT

THE WORLD TRADE CENTER

TITLE

FL 107 - PH CONNECTION DETAILS - LINES 004 & 005

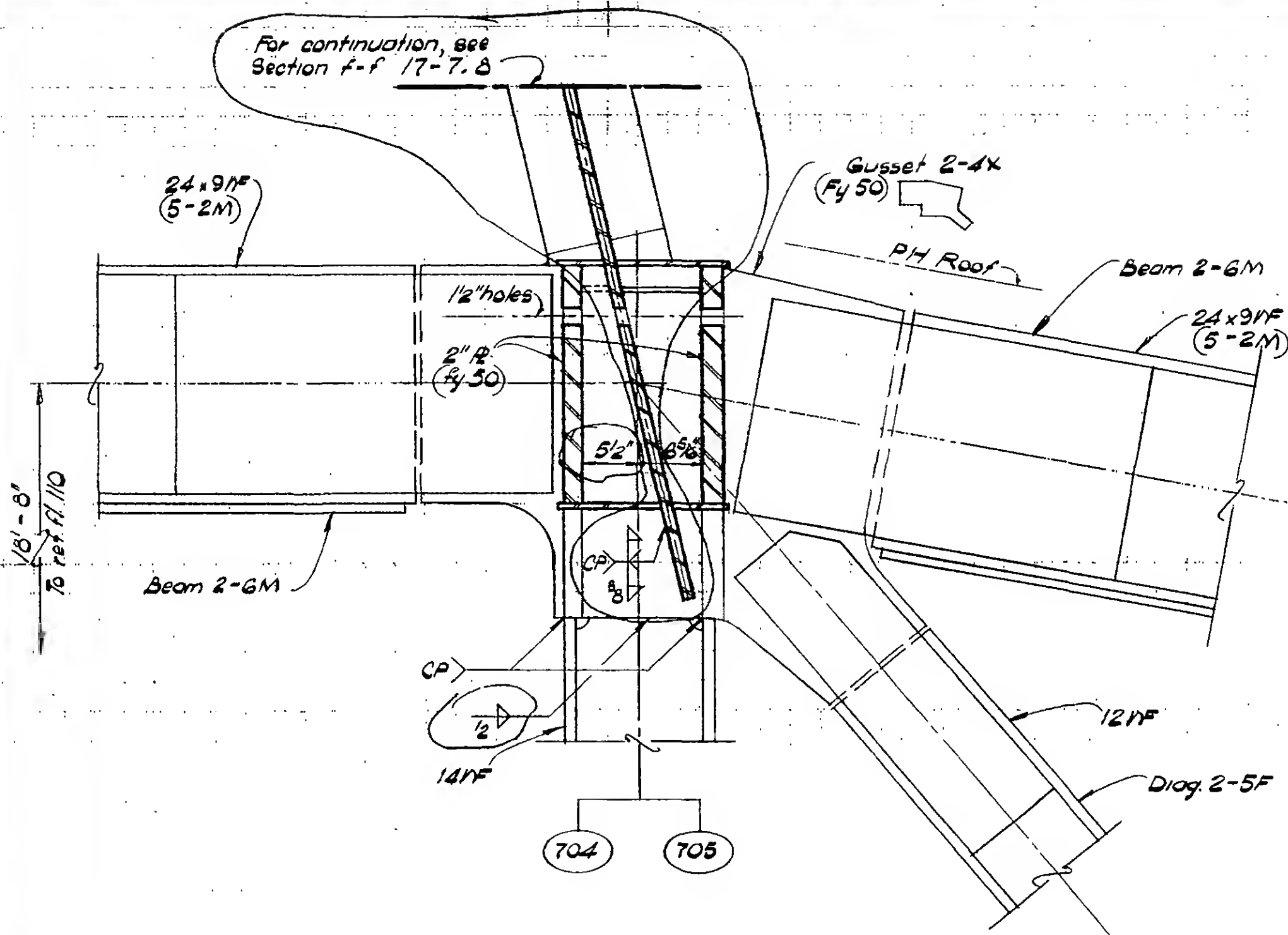
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4-1-70

REVISIONS

7-10-70

10-12-70



Section b-b (as shown)
Section b'-b' (opp hand)



DESIGNED

DRAWN

W. Clarke

REVIEWED

9-A 18-5.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

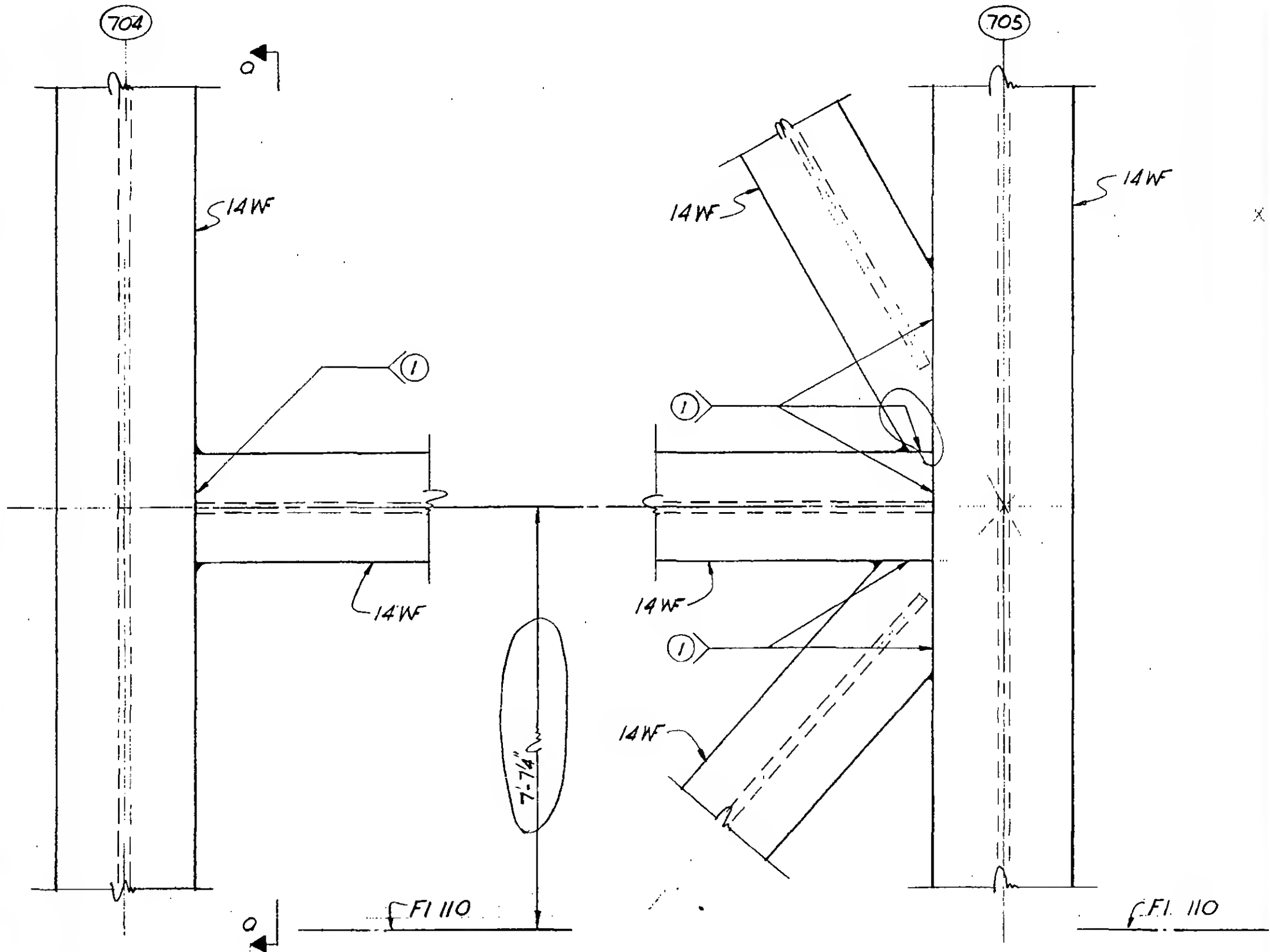
PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS - LINE 04 & 05

DATE 4-1-70

REVISIONS

7-10-70



DESIGNED

DRAWN

T. Terrelange

REVIEWED

Detail 1B-5C

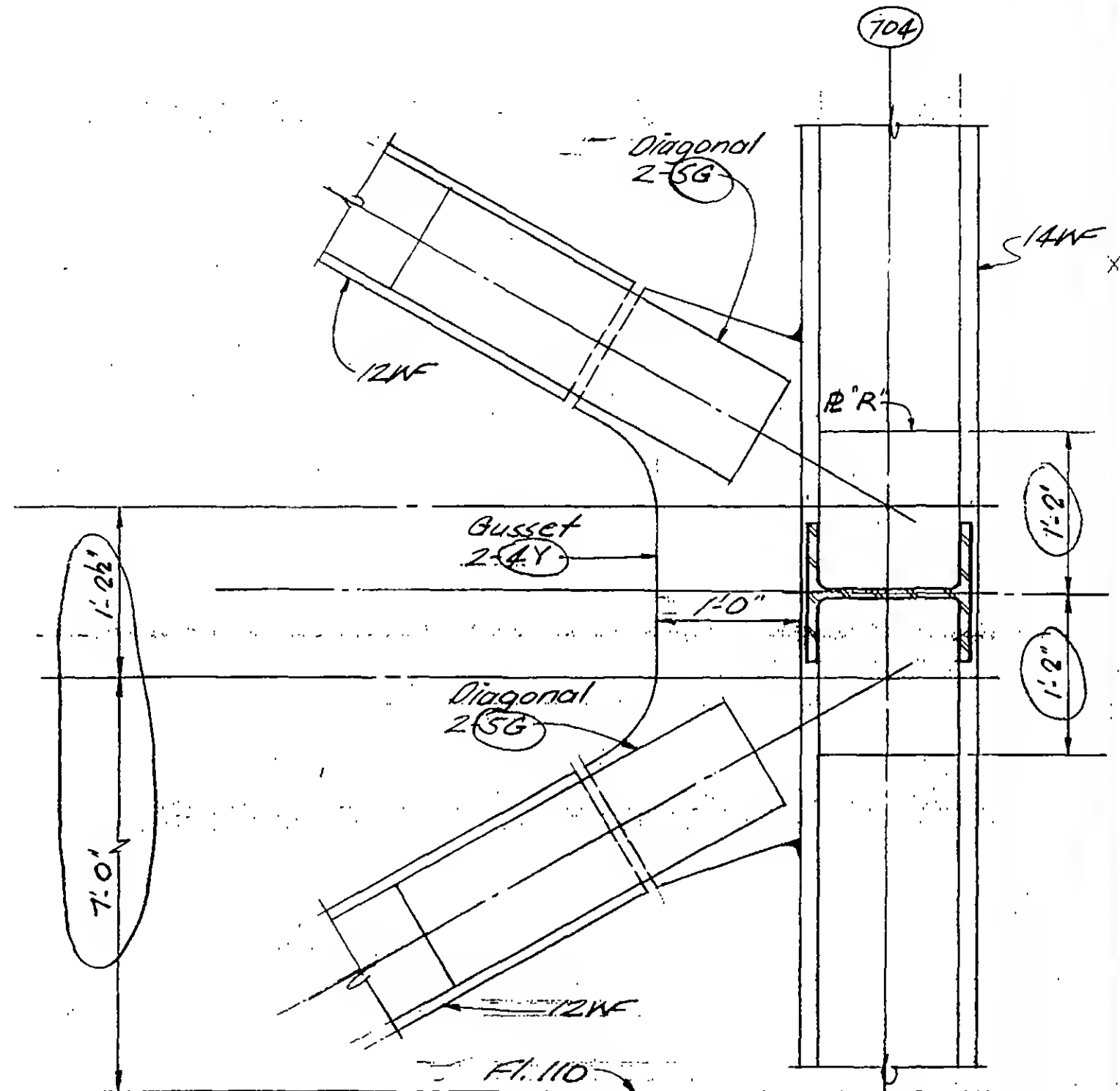
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9-AB/B-5.4

PROJECT THE WORLD TRADE CENTERTITLE FLOOR 107-PH CONNECTION DETAILS-LINES 04 & 05DATE 4-1-70

REVISIONS

7-10-70



22

DESIGNED

DRAWN

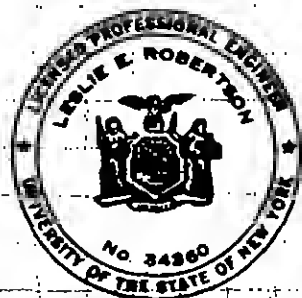
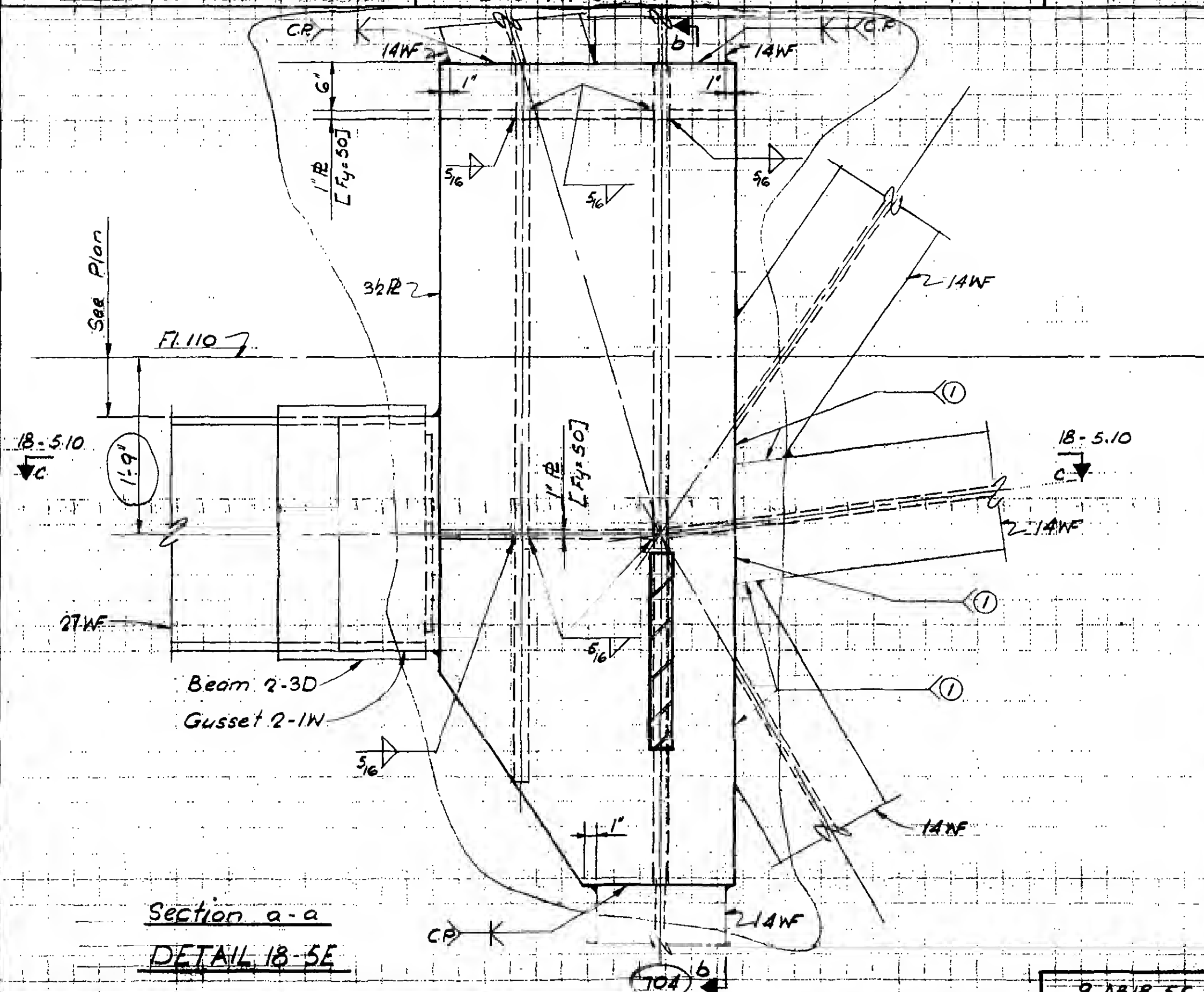
REVIEWED

Section a-a

4-1-70

REVISIONS

7-10-70



9-AB18-5C

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

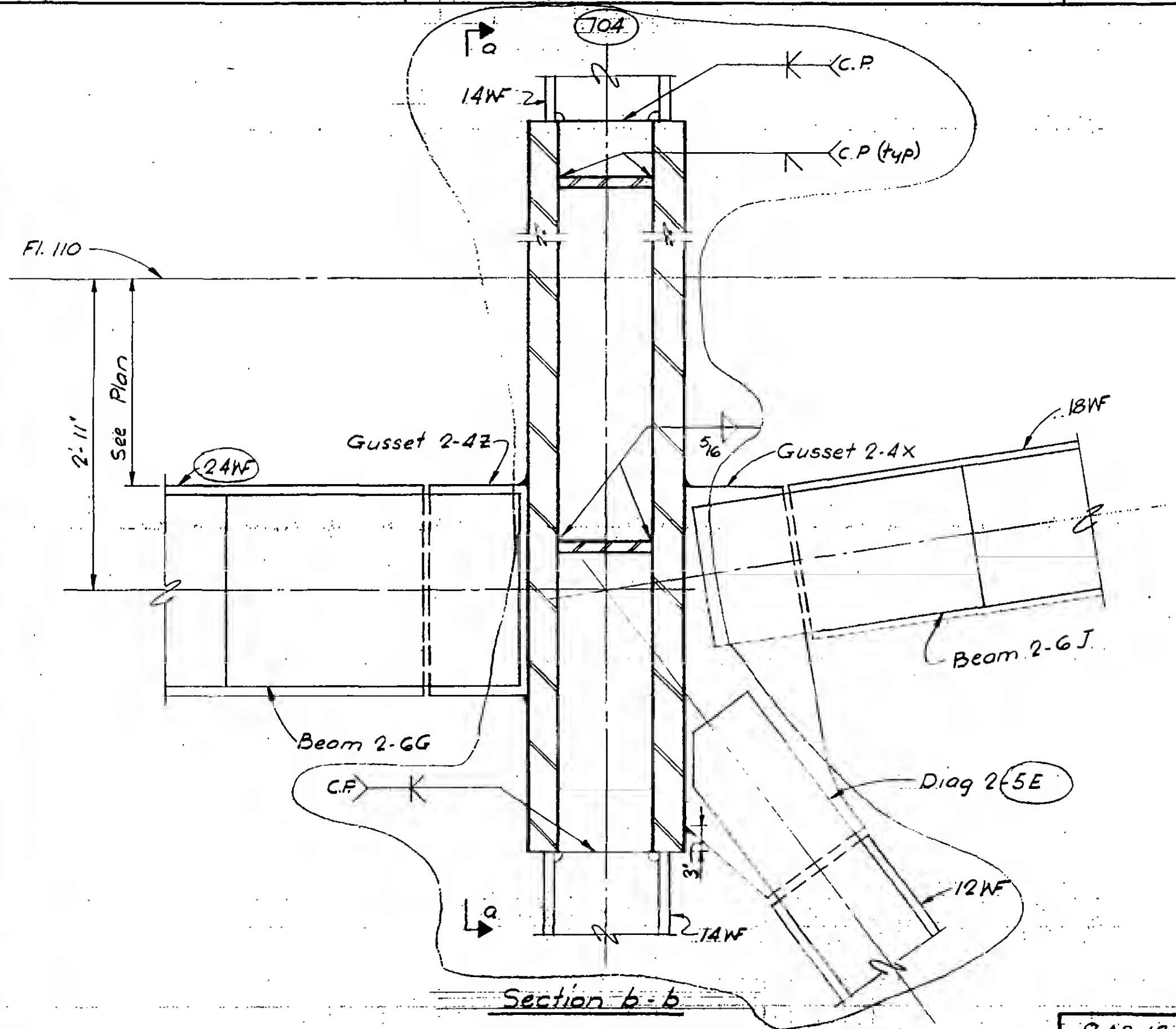
PROJECT THE WORLD TRADE CENTER

TITLE FL 110 - PH CONNECTION DETAILS - LINES 04 & 05

DATE 4-1-70

REVISIONS

7-10-70



24

DESIGNED L. Quirko

DRAWN T. Terrelonge

REVIEWED

9-AB 18-5.7.

PROJECT

THE WORLD TRADE CENTER

TITLE

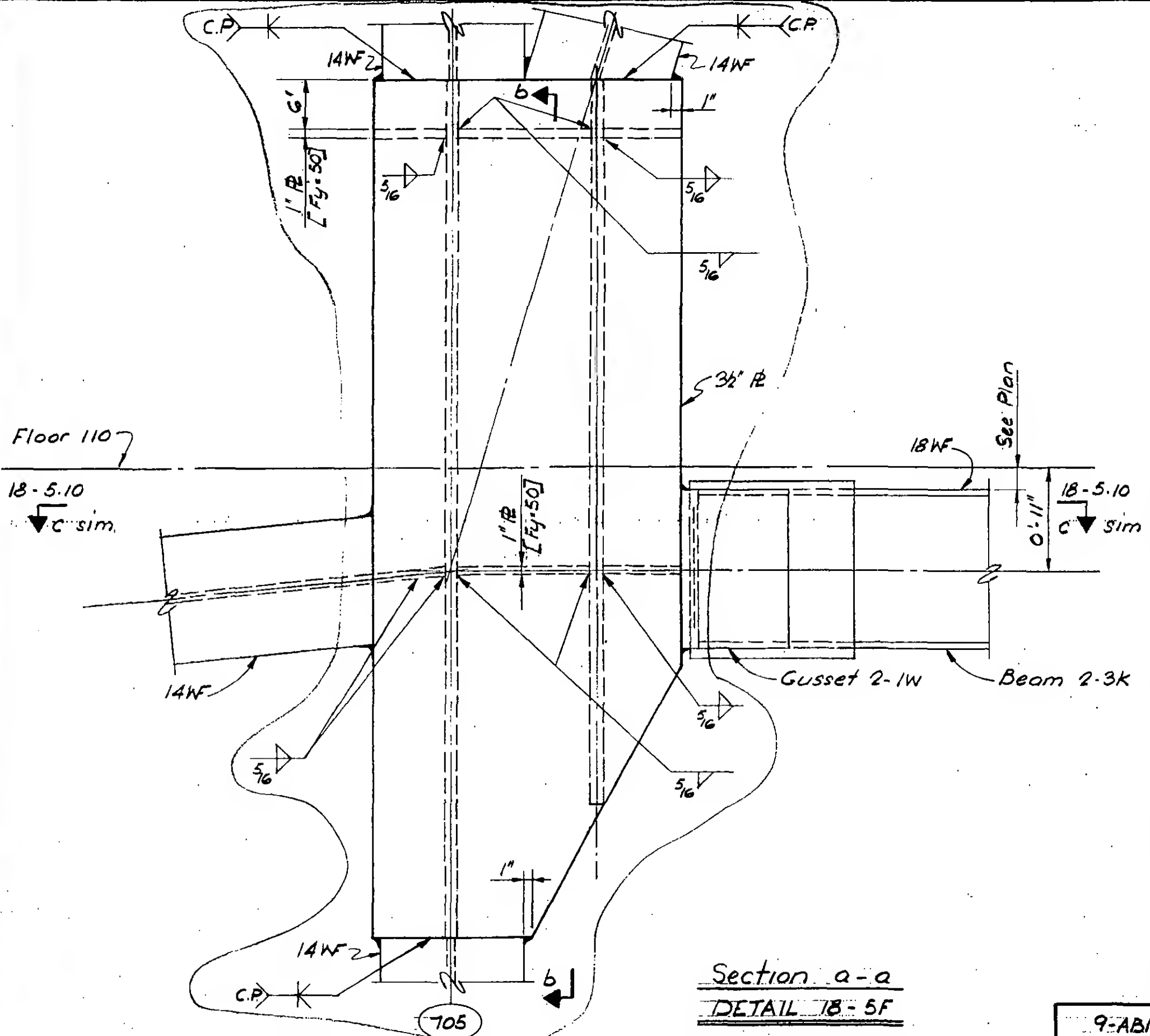
FL 107-PH CONNECTION DETAILS-LINES 04 & 05

DATE

4-1-70

REVISIONS

7-10-70



DESIGNED

DRAWN

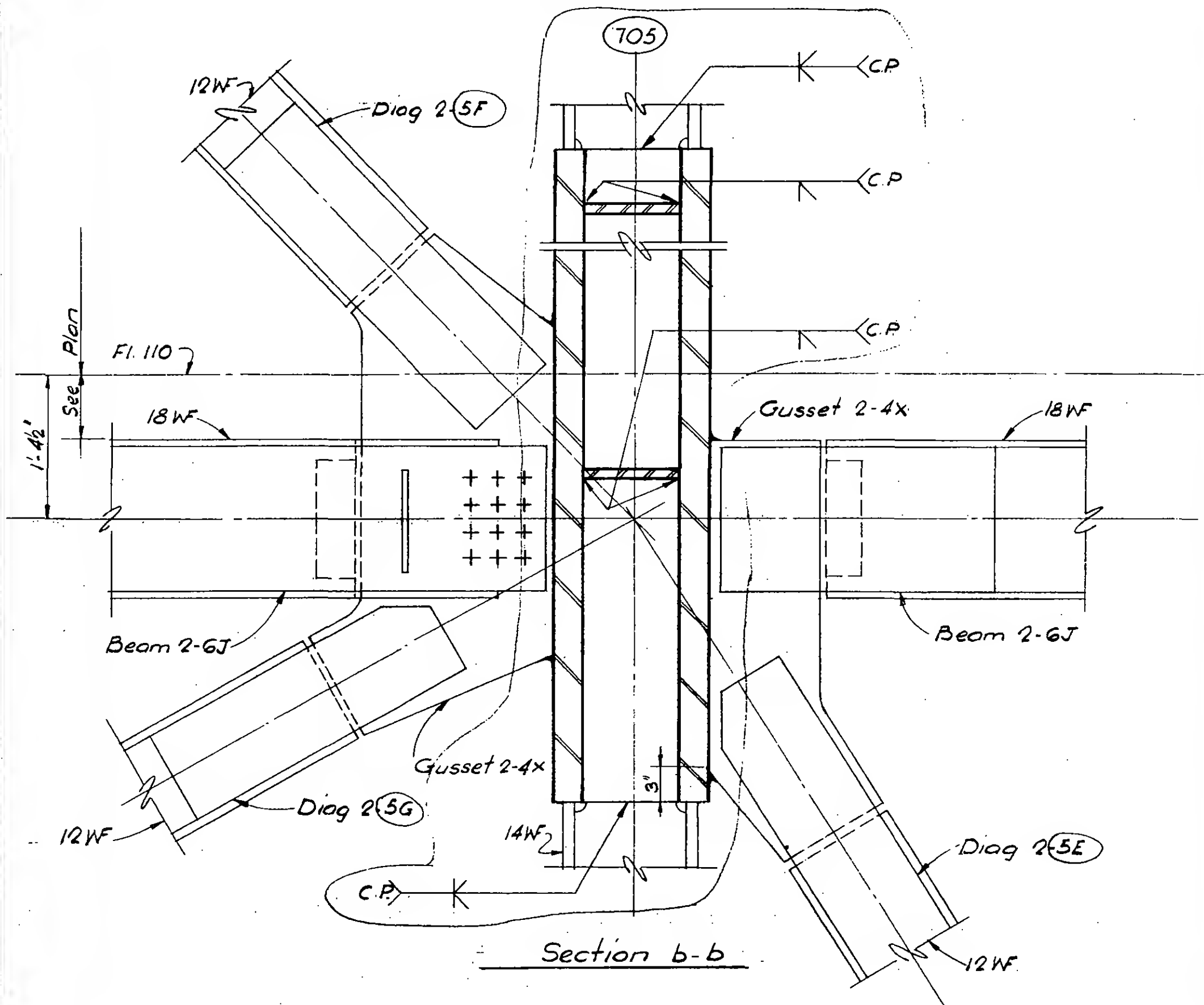
T. Terrelonge

REVIEWED

9-AB/8-5B

REVISIONS

7-10-70



DESIGNED

DRAWN

T. Terrelange

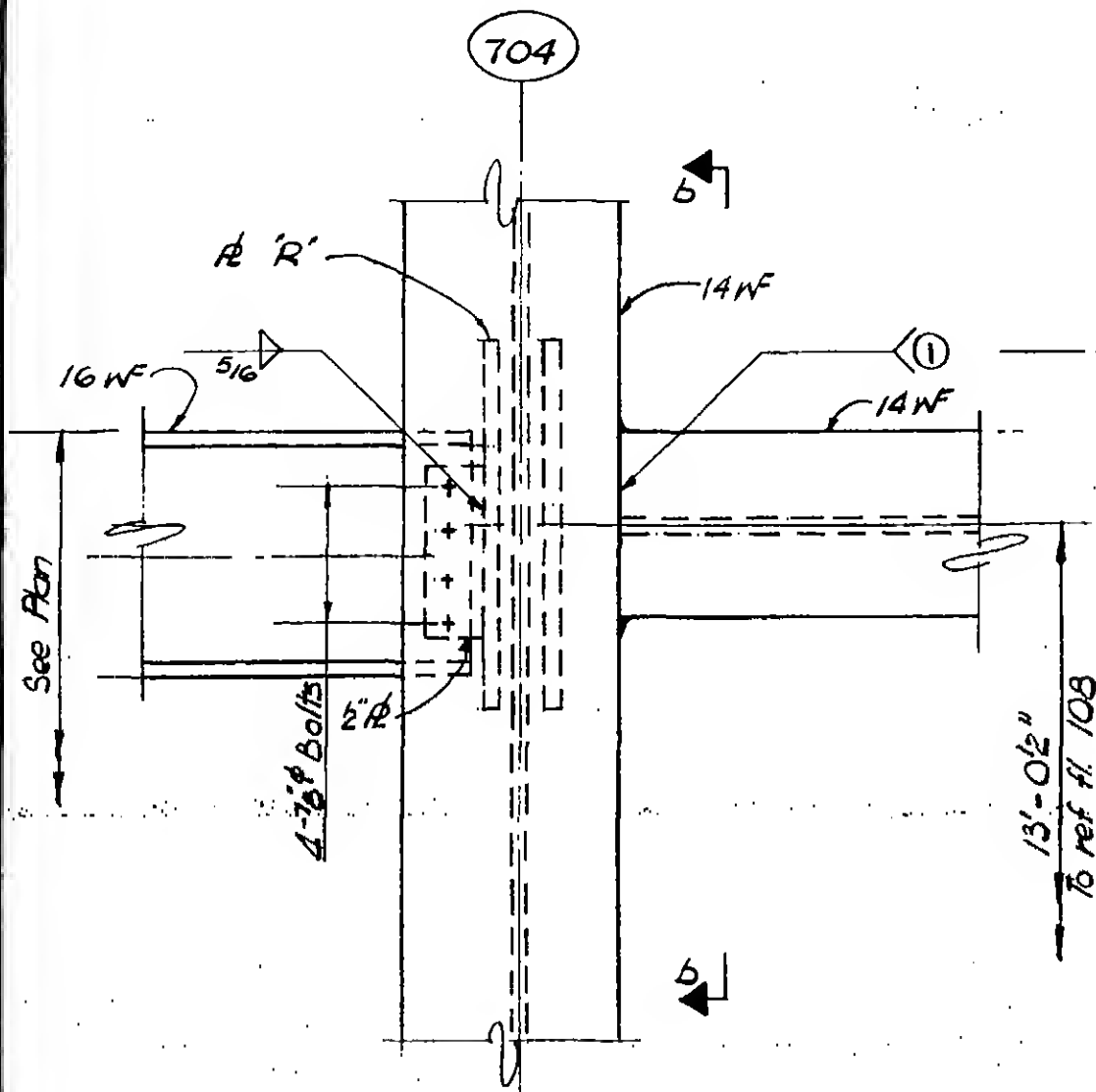
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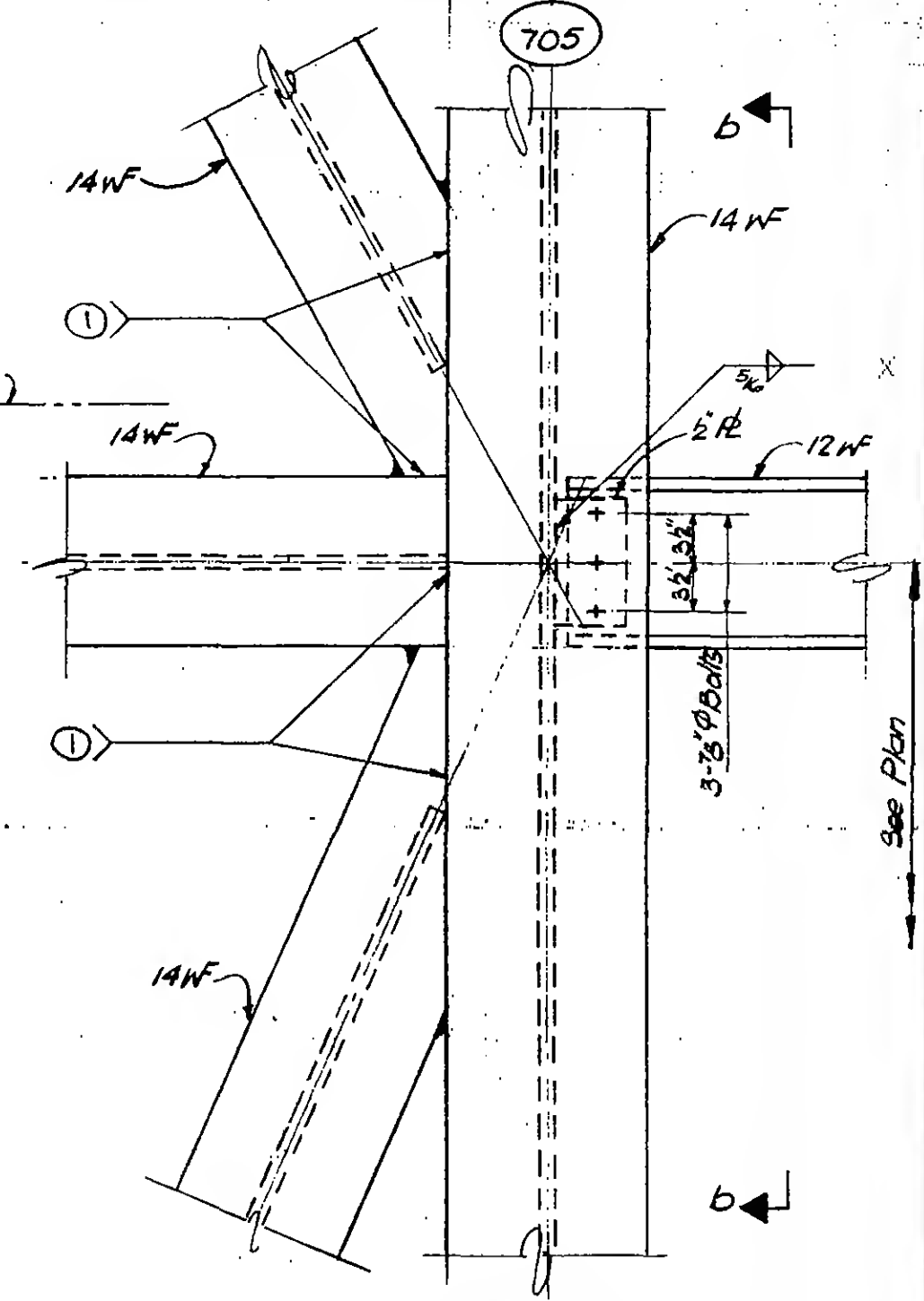
9 AB/8- 570

REVISIONS

7/8/70



Section a-a
Detail 18-5G



Section a-a
Detail 18-5H



DESIGNED

DRAWN

D. Huggins

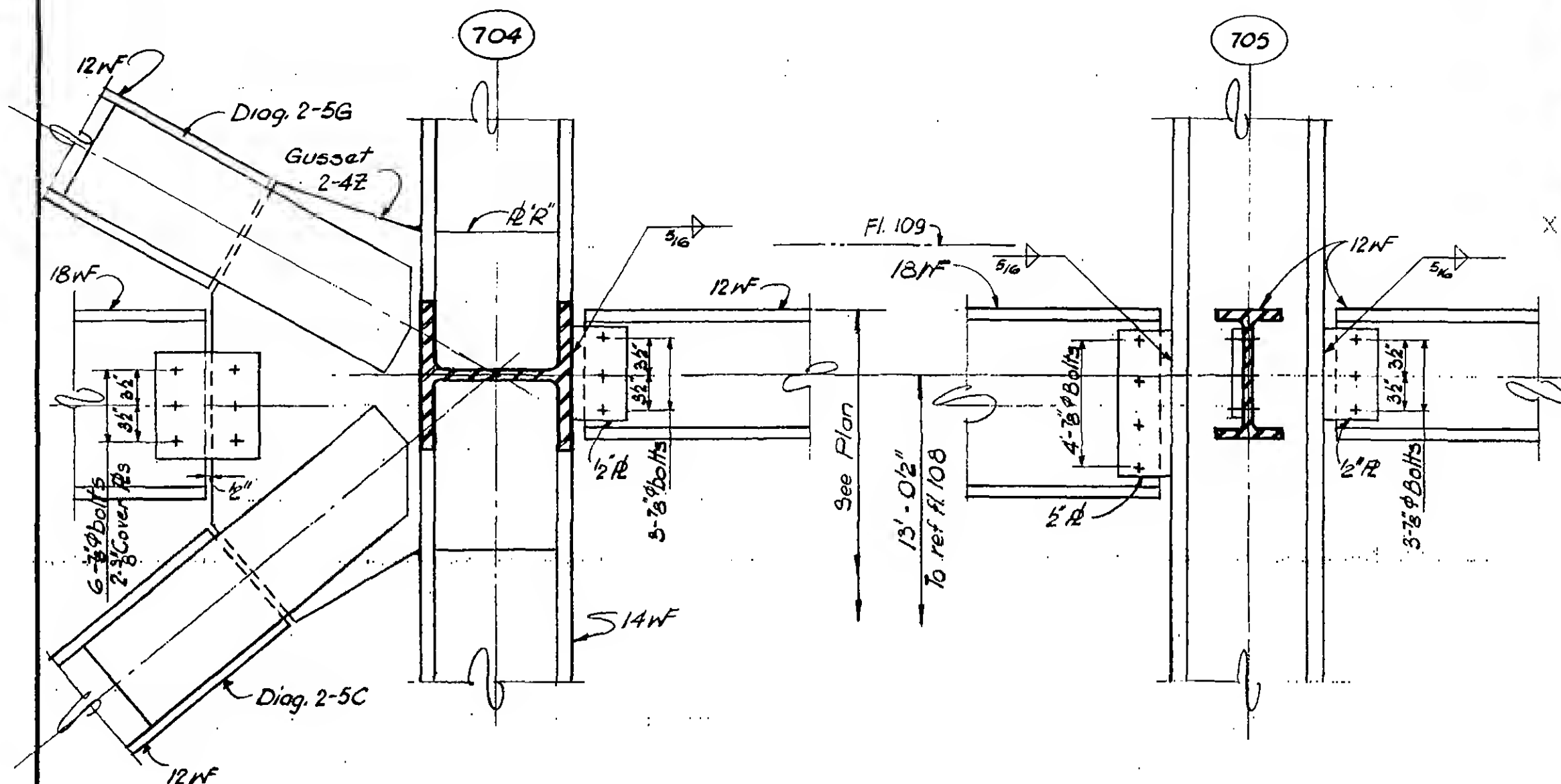
REVIEWED

E. Drakos

9-AB-18-5.14

REVISIONS

7/8/70



Section b-b



DESIGNED

DRAWN

D. Huggins

REVIEWED

REVIEWED
E. Drakos

9-AB-18-5.15

PROJECT

THE WORLD TRADE CENTER

TITLE

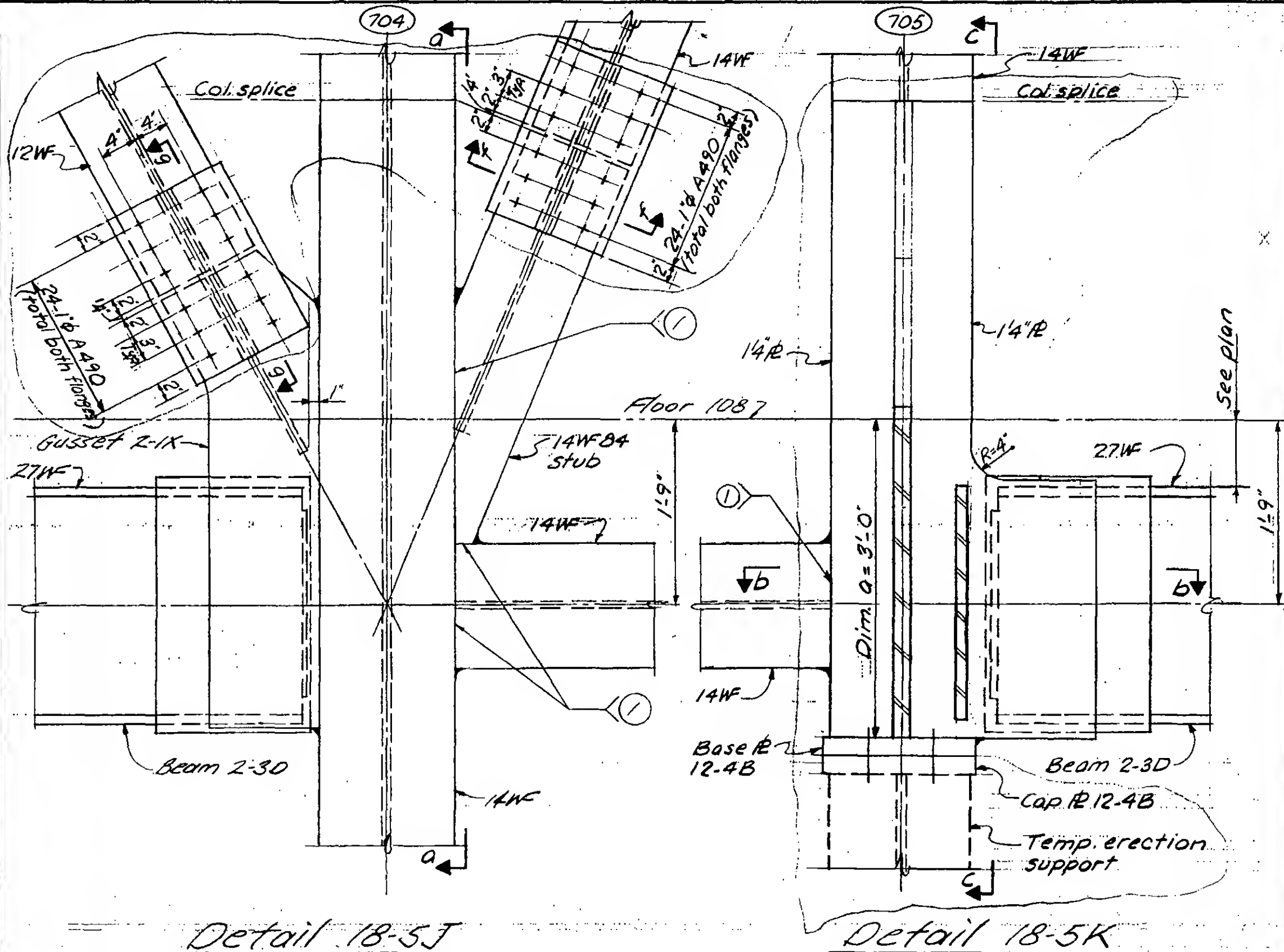
FLOOR 107-PH CONNECTION DETAILS-LINES D9&Q5

DATE

4-1-70

REVISIONS

6-22-70



Detail 18-5J

Detail 18-5K



DESIGNED

DRAWN

REVIEWED

9-AB/B-5.16

PROJECT

THE WORLD TRADE CENTER

TITLE

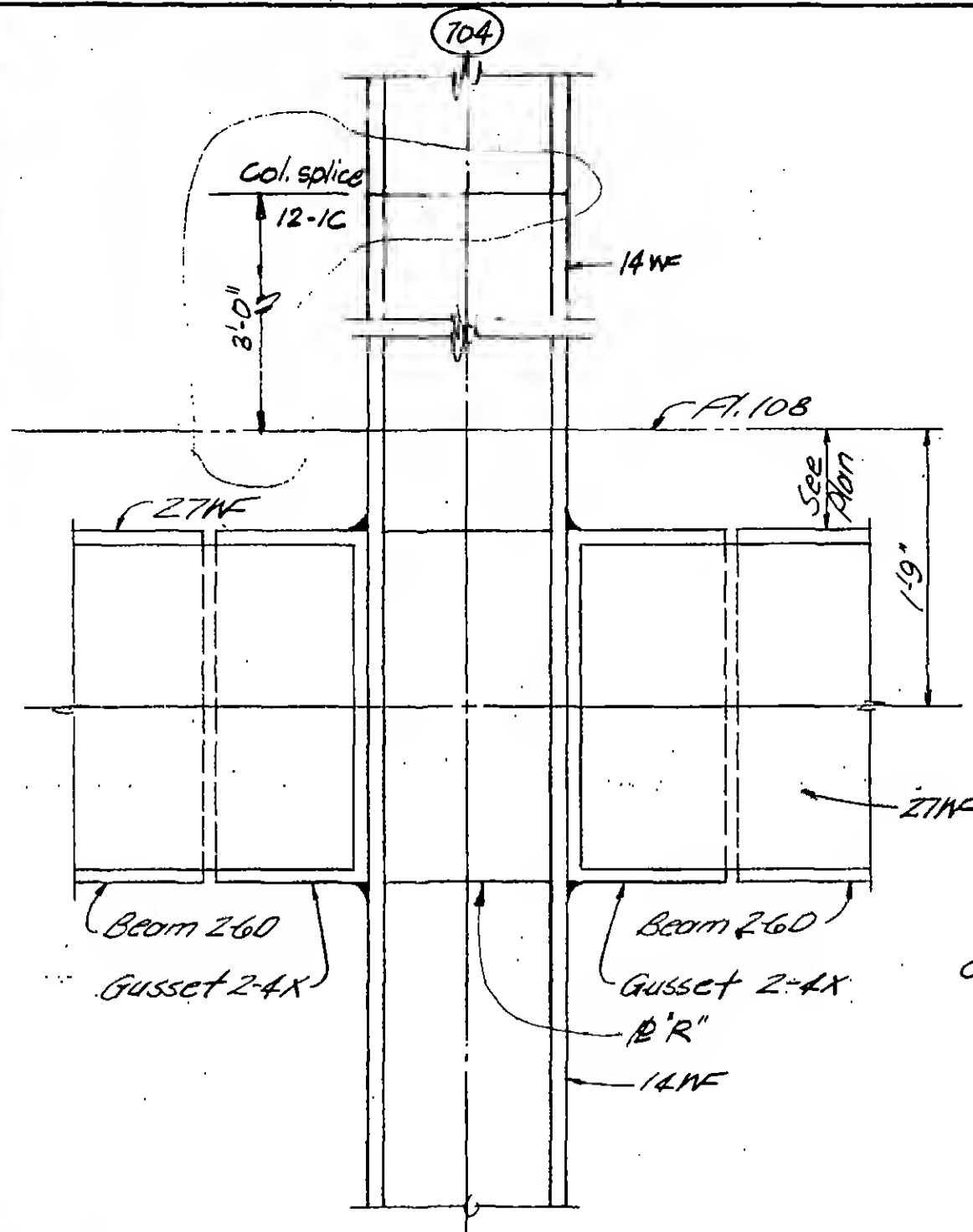
FL 107 - PH CONNECTION DETAILS - LINE 04 & 05

DATE

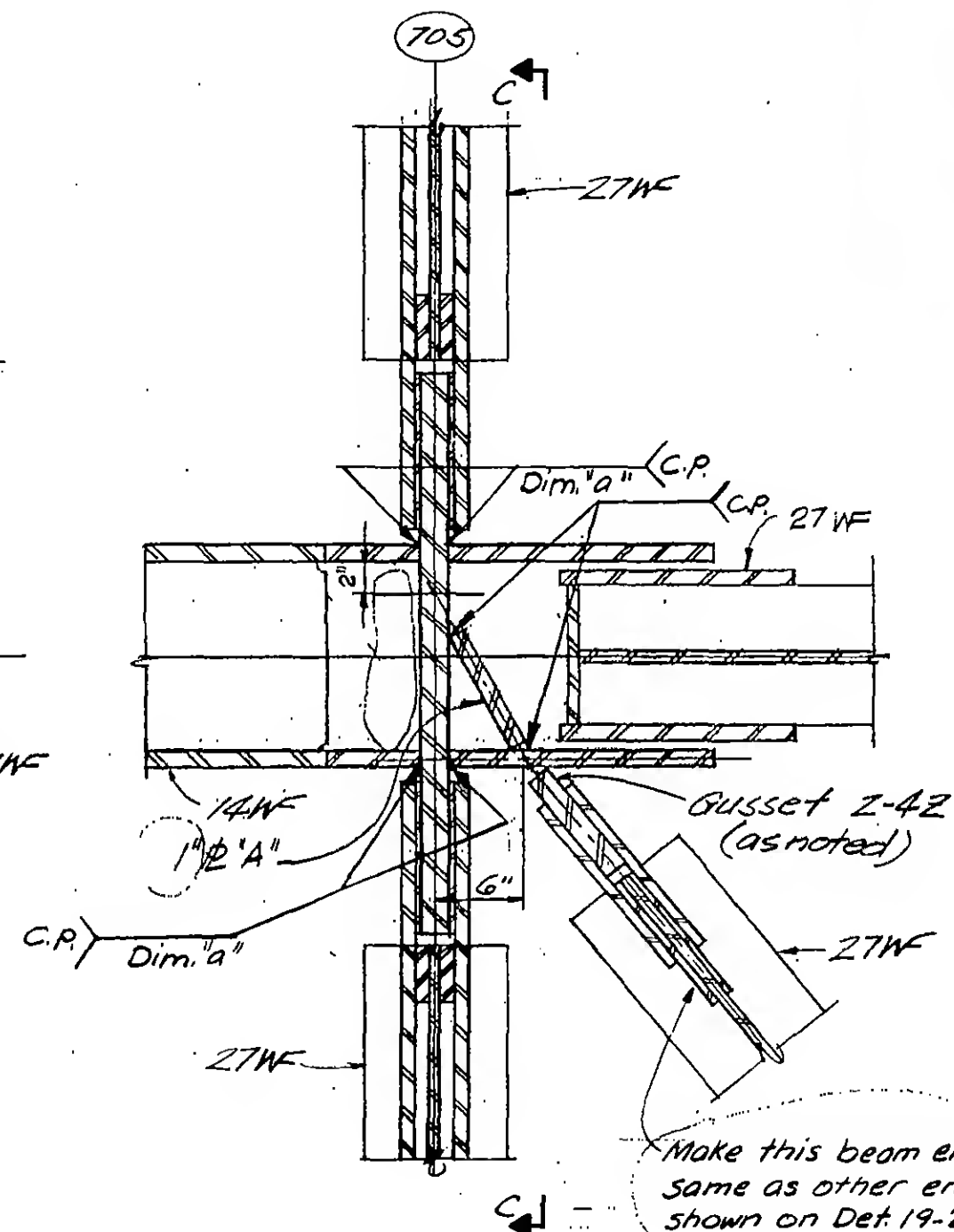
4-1-70

REVISIONS

6-22-70



Section a-a



Section b-b



DESIGNED

DRAWN

REVIEWED

9-AB18-5-17

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

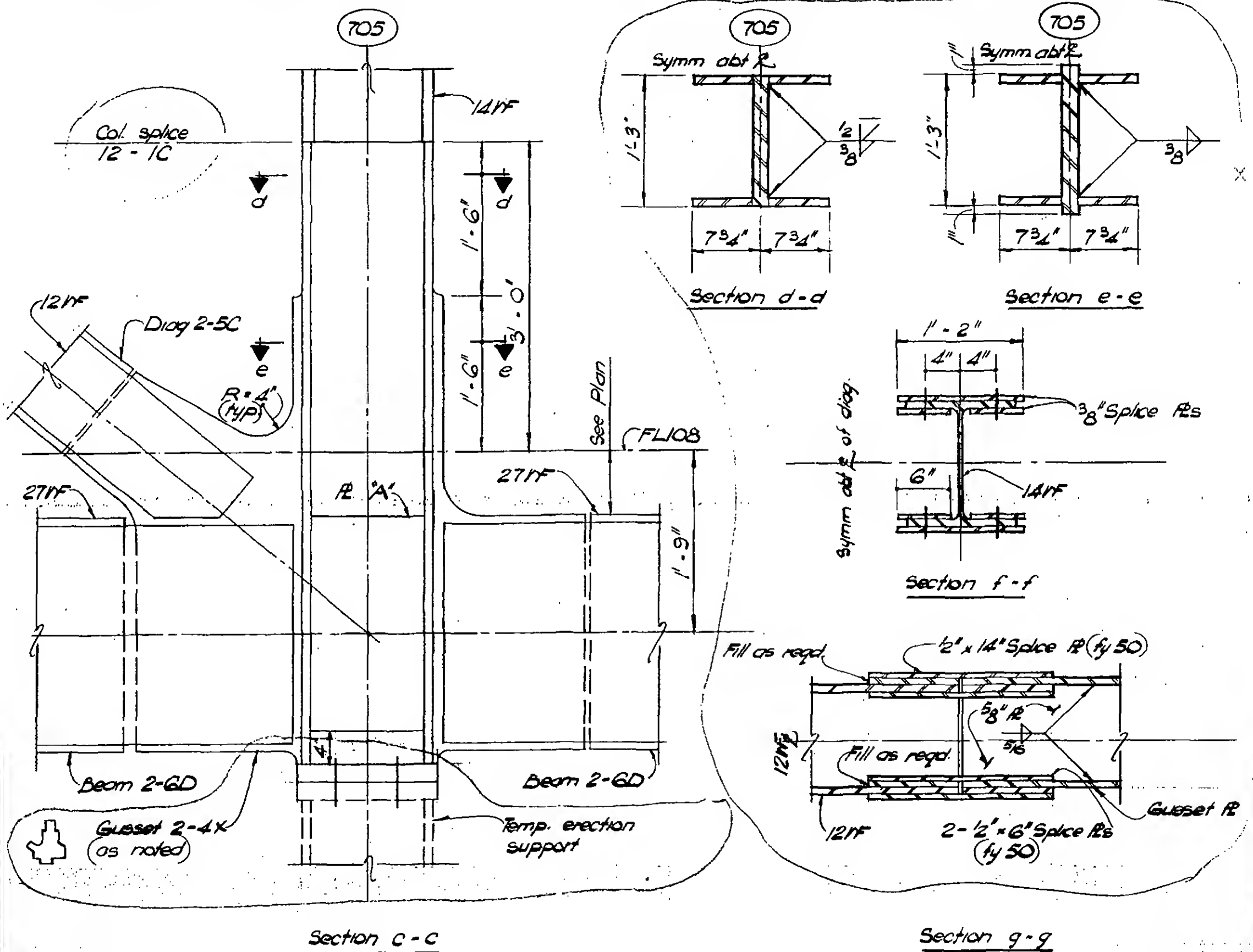
PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - LINES 04-08

DATE 4-1-70

REVISIONS

6-22-70



DESIGNED

DRAWN
M. Clarke

REVIEWED

0-ΔΔΔ-ΔΔΔ

PROJECT

THE WORLD TRADE CENTER

TITLE

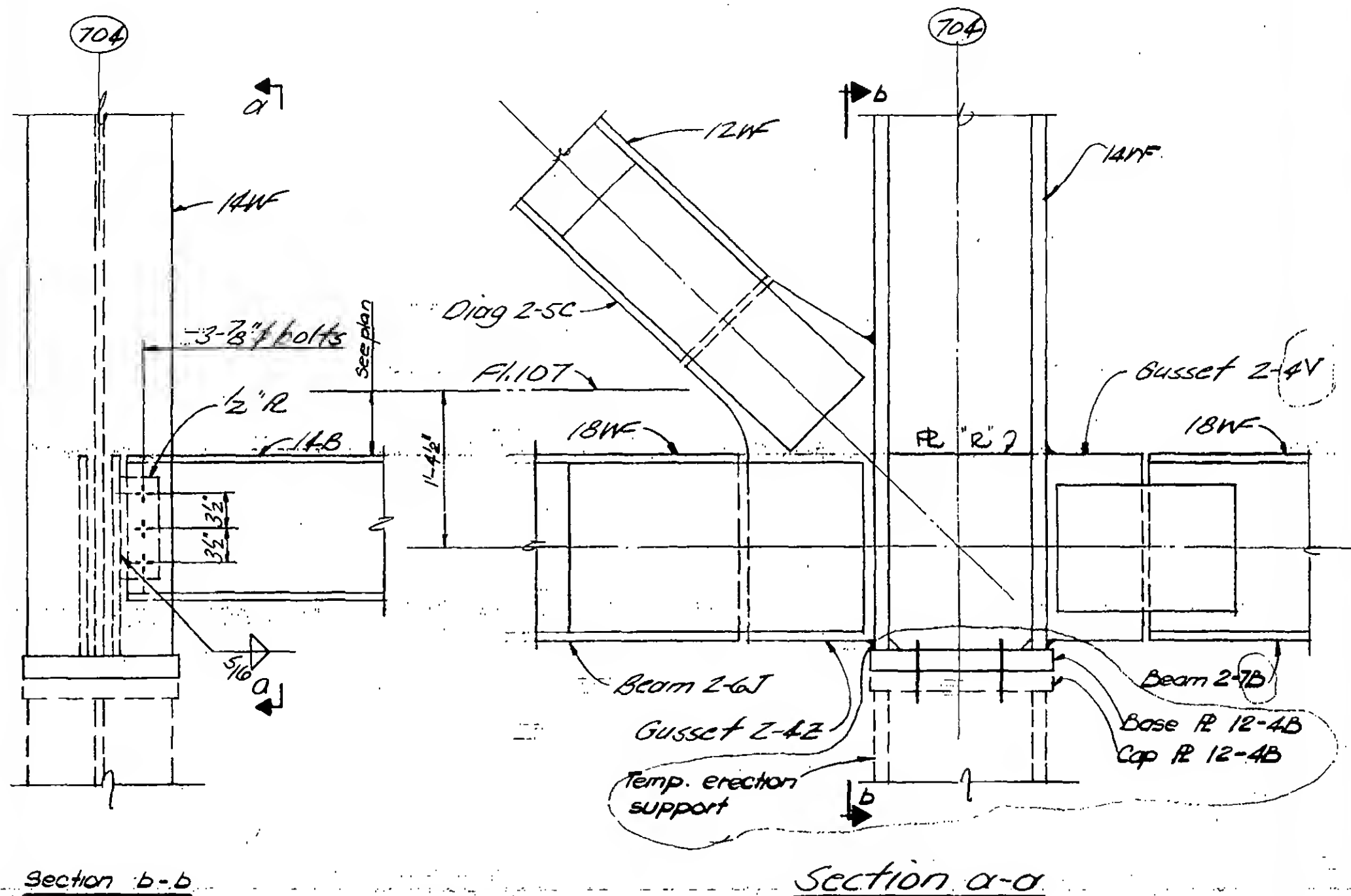
FLOOR 107-PH CONNECTION DETAILS-LINES 04&05

DATE

4-1-70

REVISIONS

6-22-70



DETAIL 18-5M.



DESIGNED

DRAWN

REVIEWED

9-AB18-519

PROJECT

THE WORLD TRADE CENTER

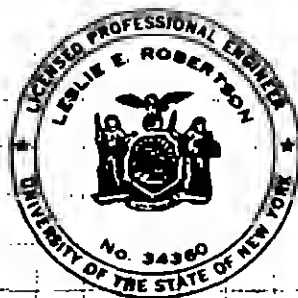
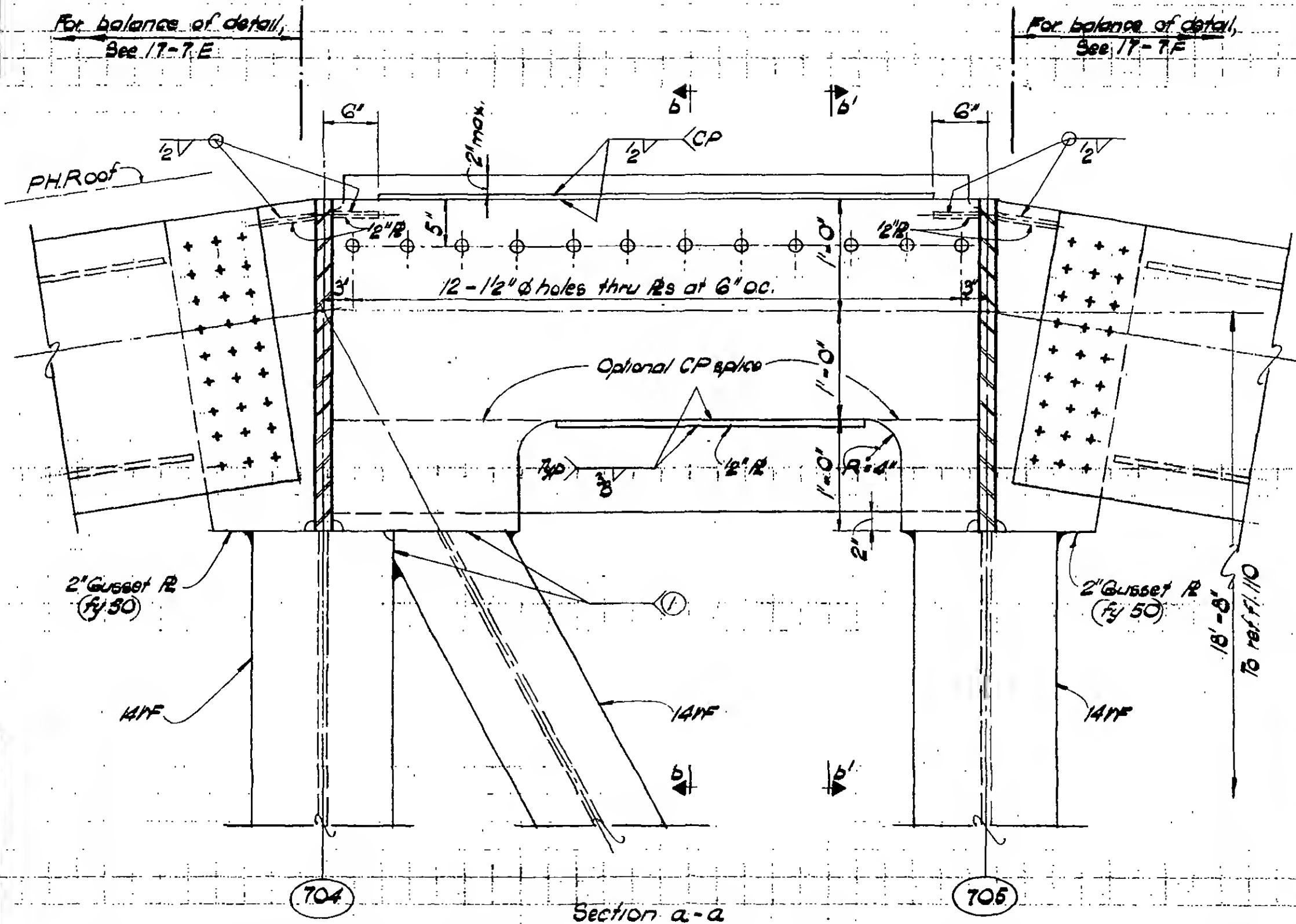
TITLE

FL 107 - RH CONNECTION DETAILS - LINES 004-005

DATE

10-12-70

REVISIONS



DESIGNED

DRAWN
W. Clarke

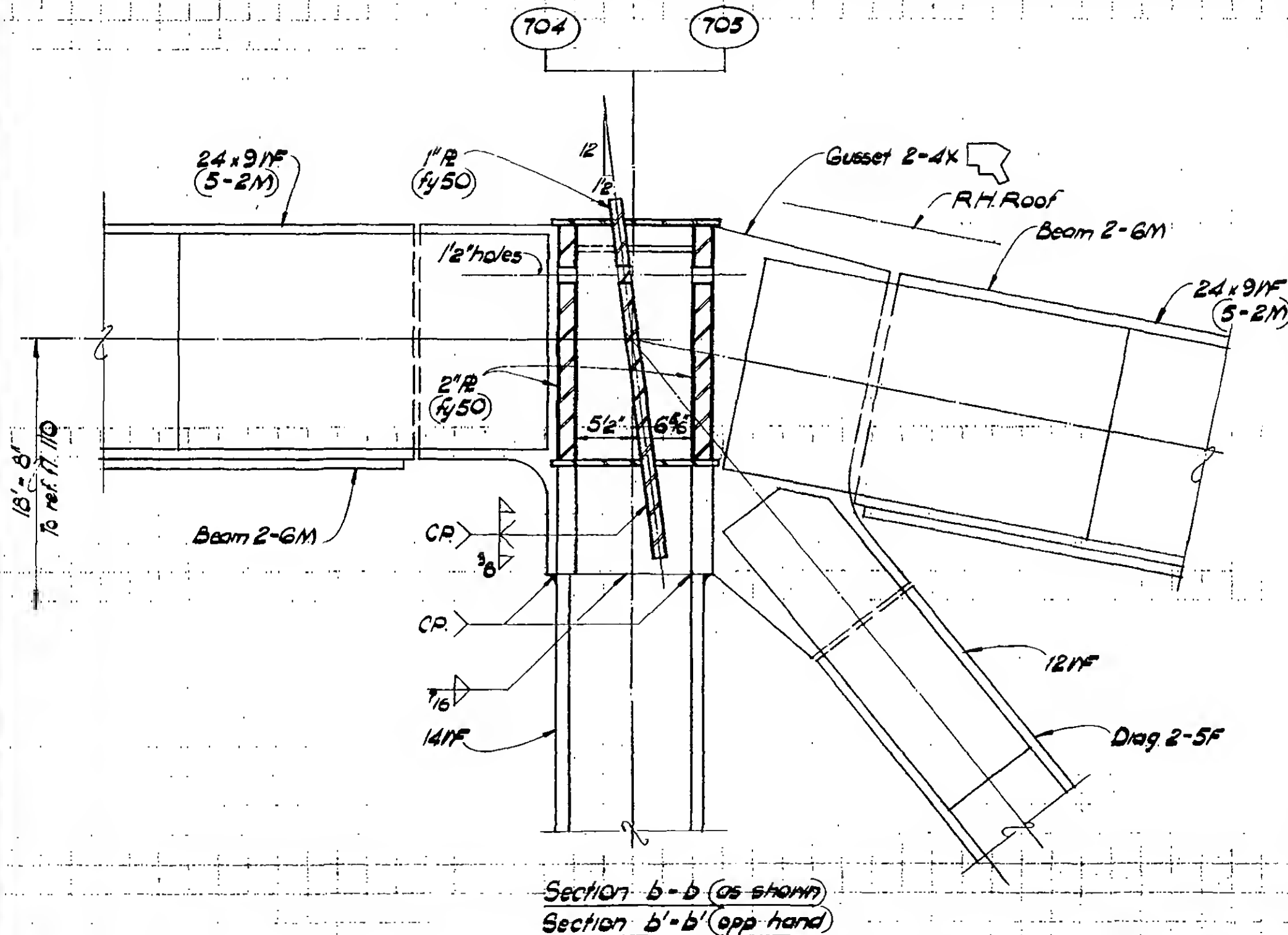
REVIEWED

DETAIL 18-5P

DETAIL 18-5Q

9-8/8-5:30

REVISIONS



DESIGNED

DRAWN

N. Clarke

REVIEWED

9-B/8-5.31

PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - LINES 04 & 05

DATE 4-1-70

REVISIONS

7/10/70
12/14/70

P.H. Roof?

(Tower A) 18-6A
Sec 18-6.2
(Tower B) 18-6P
Sec 18-6.3018-6B
Sec 18-6.2 (Tower A)
18-6Q
Sec 18-6.30 (Tower B)18-6C
18-6.518-6D
18-6.5

Fl. 110

18-6E
18-6.618-6F
18-6.8

Fl. 109

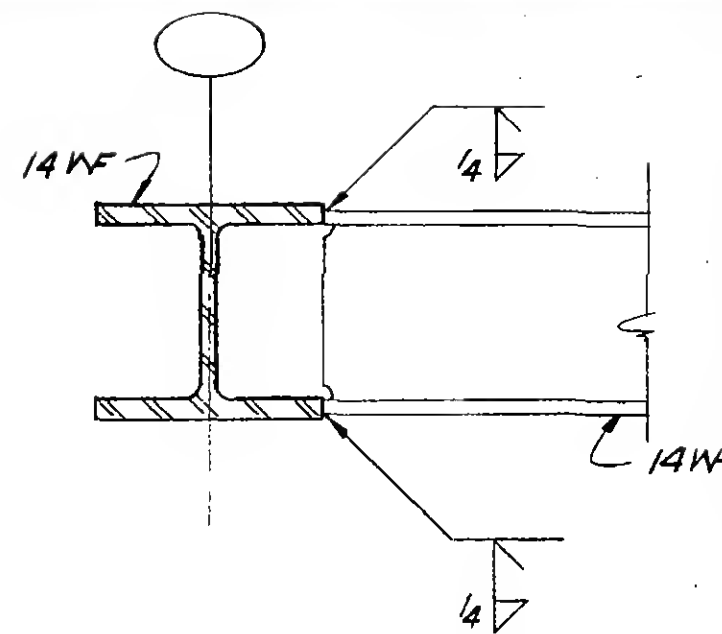
18-6G
18-6.1418-6H
18-6.14

Fl. 108

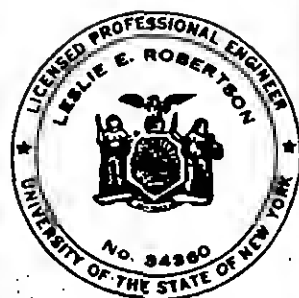
18-6J
18-6.1618-6K
18-6.16

Fl. 107

DETAIL 18-6



Detail ①



DESIGNED

DRAWN

M. Nichols

REVIEWED

9-AB/8-6-1

PROJECT

THE WORLD TRADE CENTER

TITLE

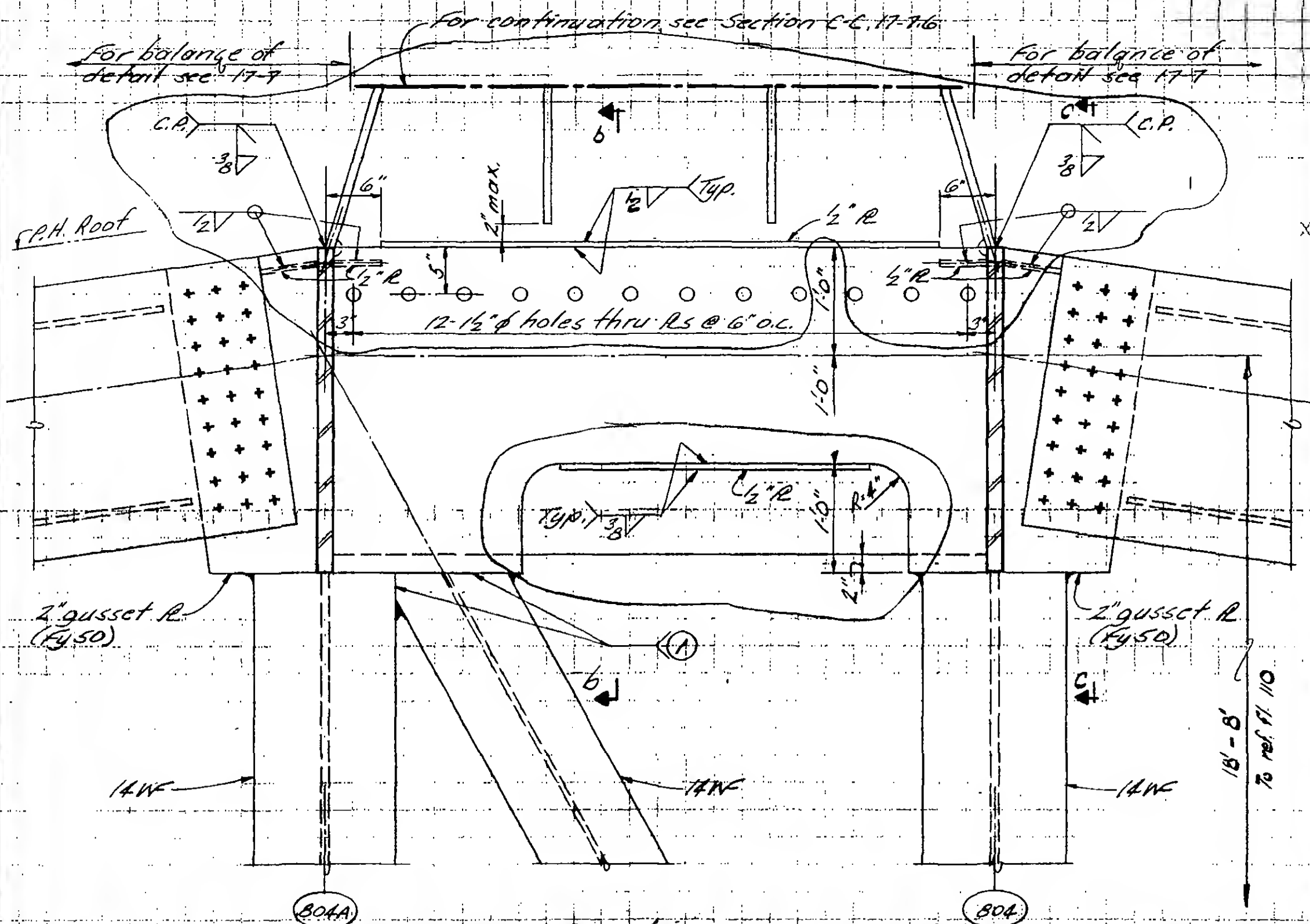
FL 107 RM CONNECTION DETAILS LINES 004 & 005

DATE

7-10-70

REVISIONS

10-12-70



DESIGNED

DRAWN

S. Adams

REVIEWED

9-A 18-6.2

PROJECT

THE WORLD TRADE CENTER

TITLE

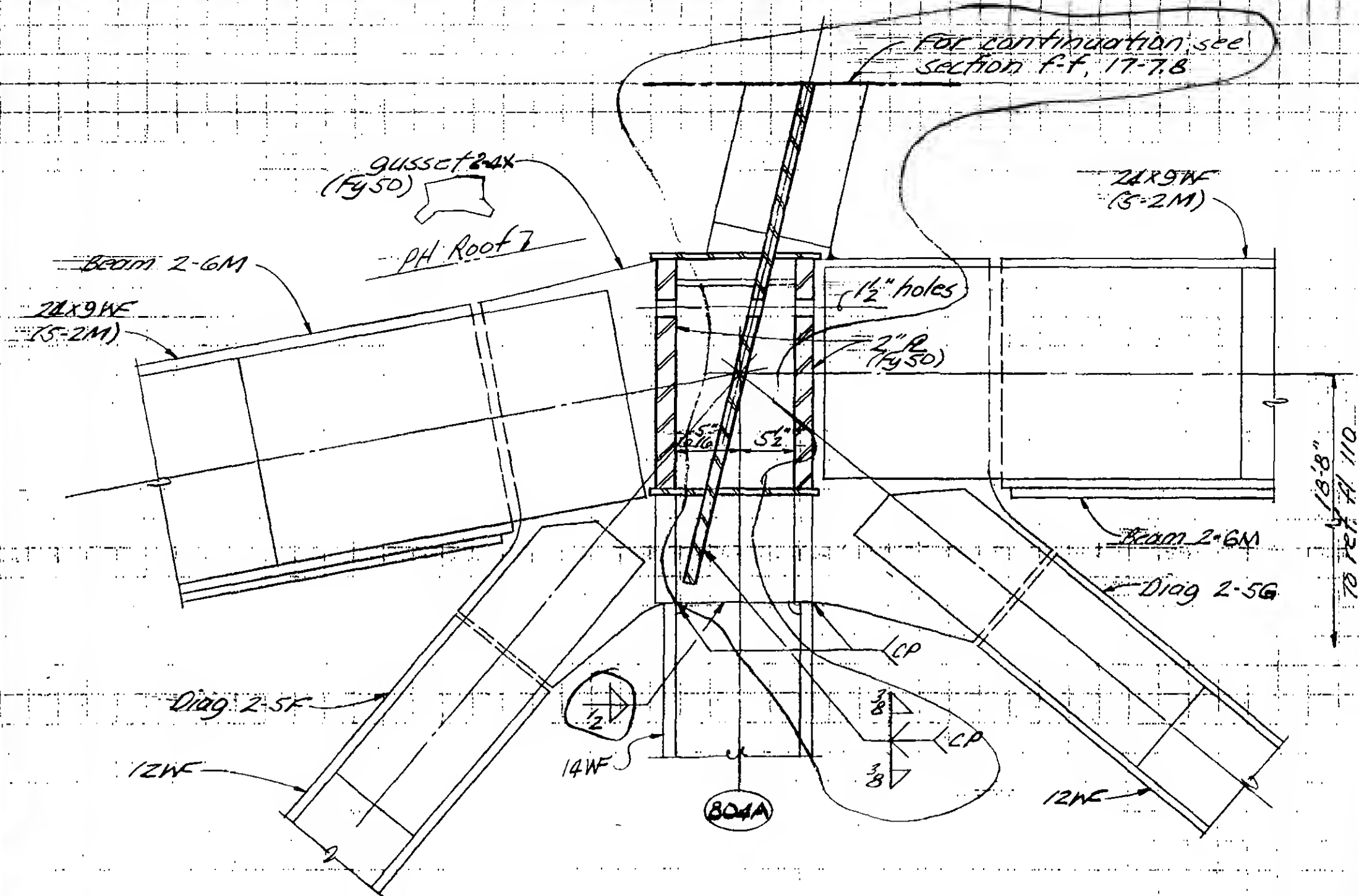
FL 107 PH CONNECTION DETAILS LINES 0046005

DATE

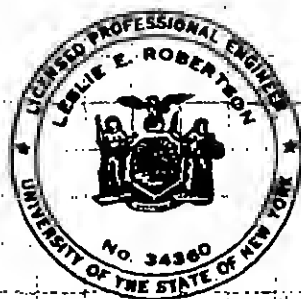
7-10-70

REVISIONS

10-12-70



Section b-b



DESIGNED

DRAWN

S. Adams

REVIEWED

9-A 18-6.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

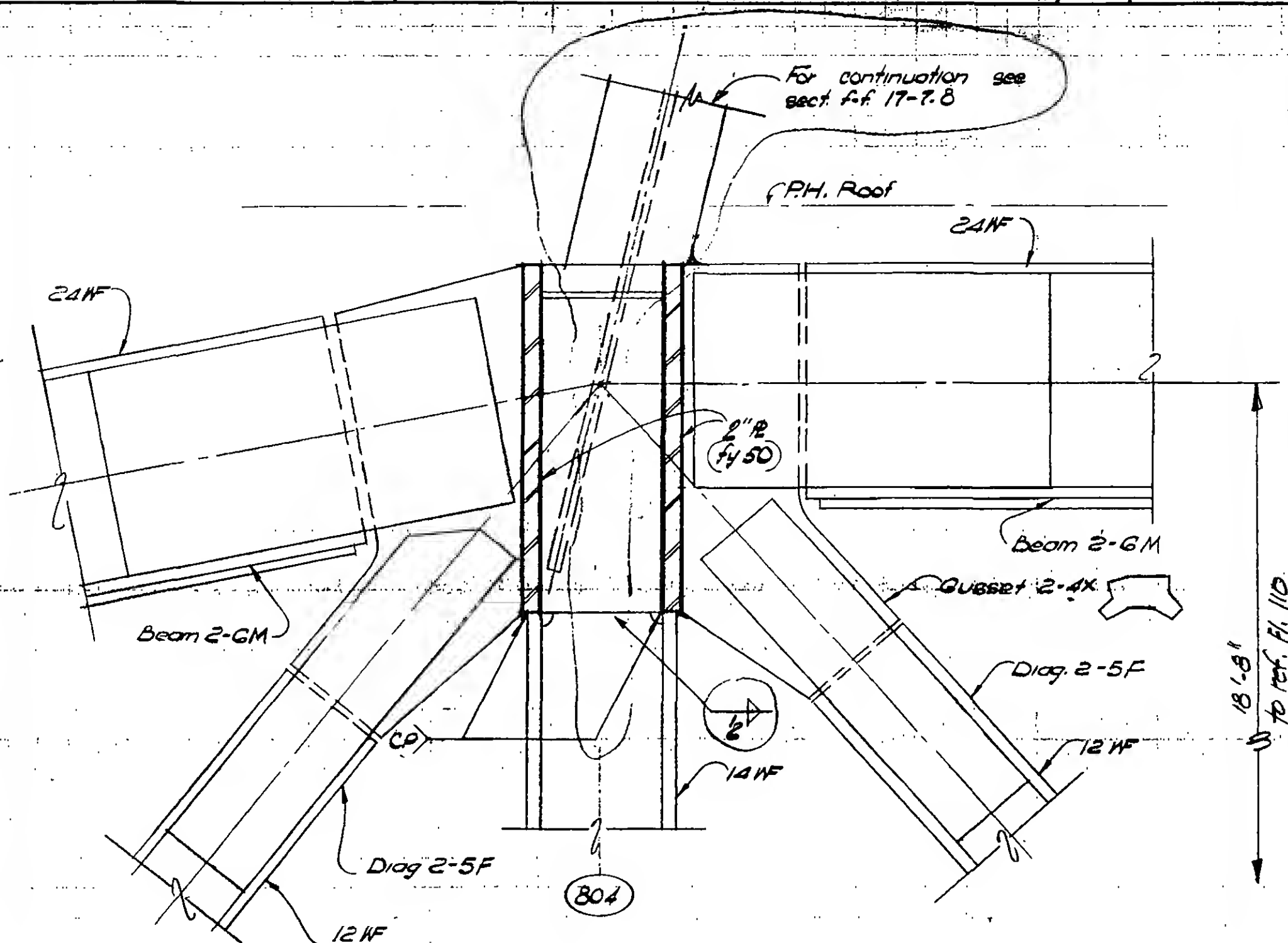
FL 107-PH CONNECTION DETAILS - LINES 004 & 005

DATE

7/10/70

REVISIONS

10/12/70

DESIGNED
A. PatelDRAWN
W. Clarke

REVIEWED

9-A/B-6.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

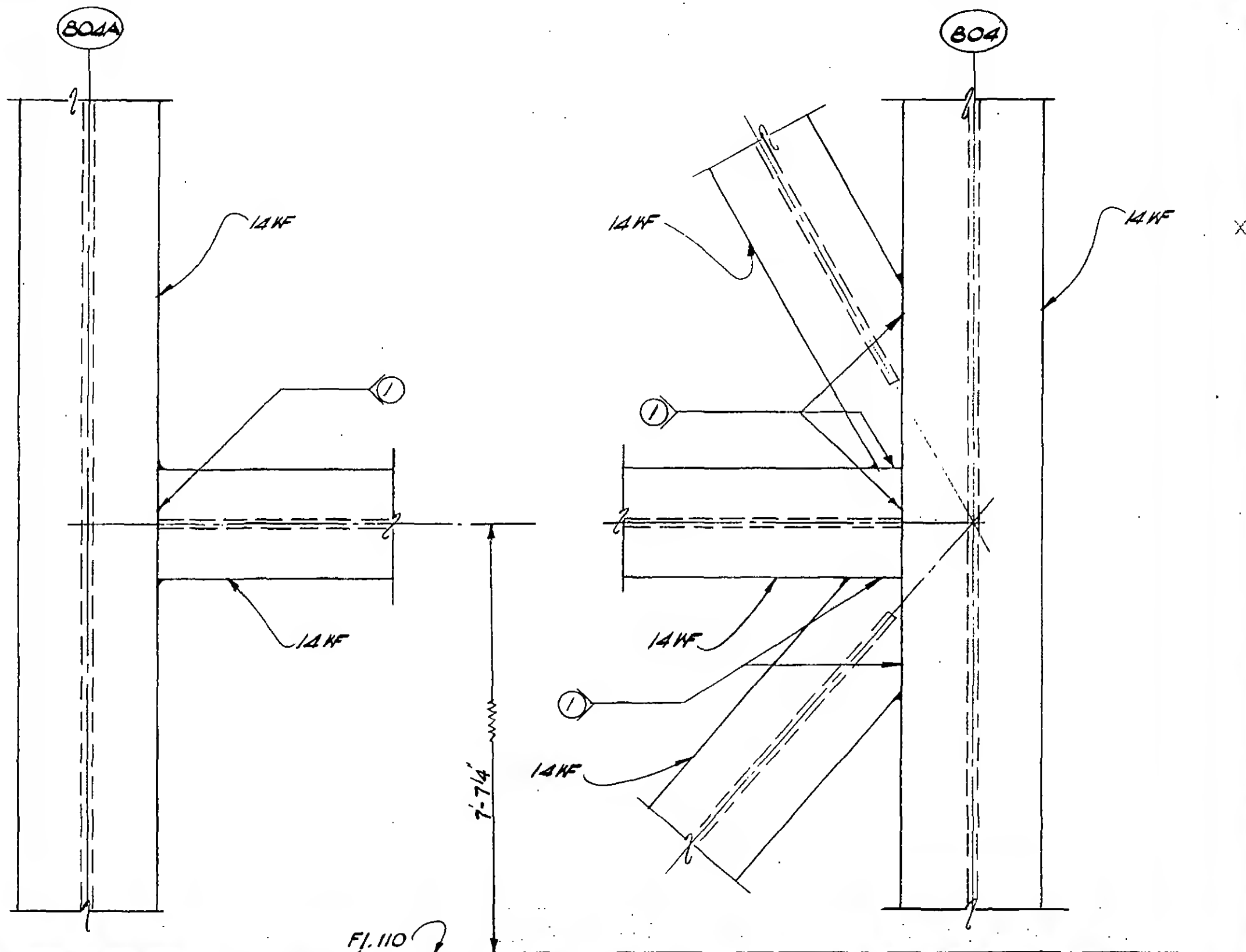
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS-LINB 04 & 05

DATE 7/10/70

REVISIONS



DESIGNED
A. Patel

DRAWN
N. Clarke

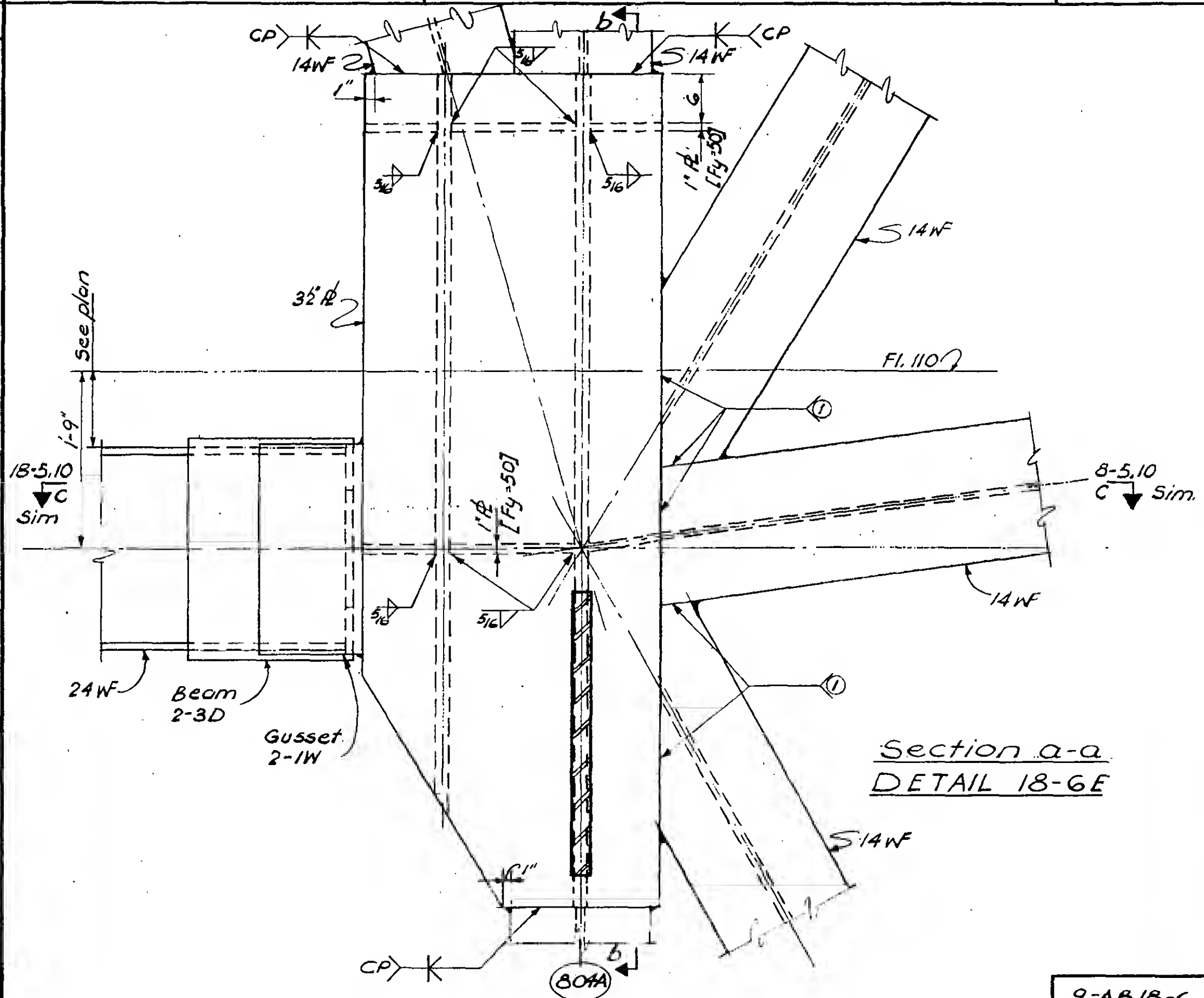
REVIEWED

DETAIL 18-6C

DETAIL 18-6D

9-AB18-6.5

REVISIONS



DESIGNED

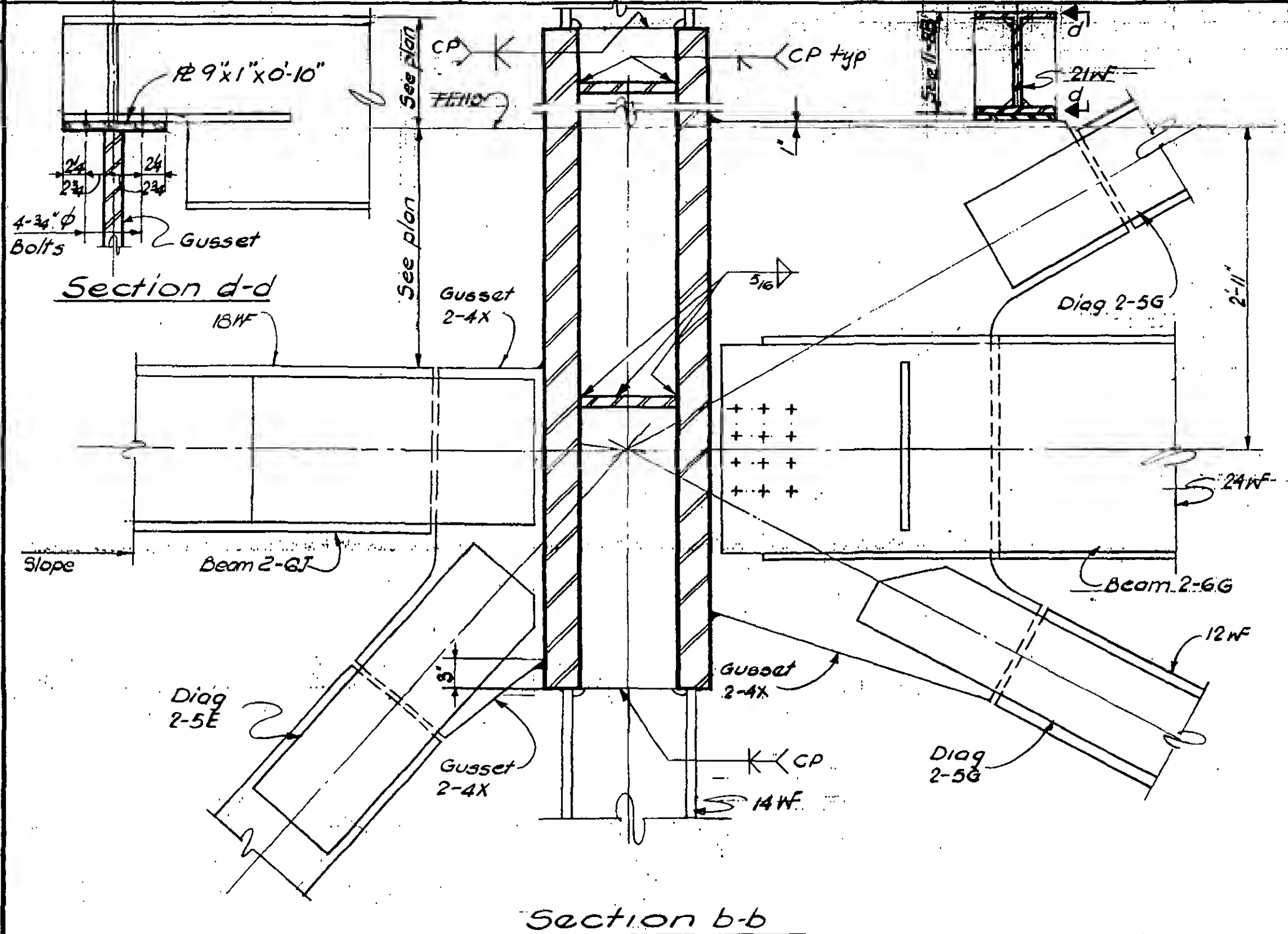
DAYN

D. Huggins

REVIEWED

9-AB18-6.6

REVISIONS



34

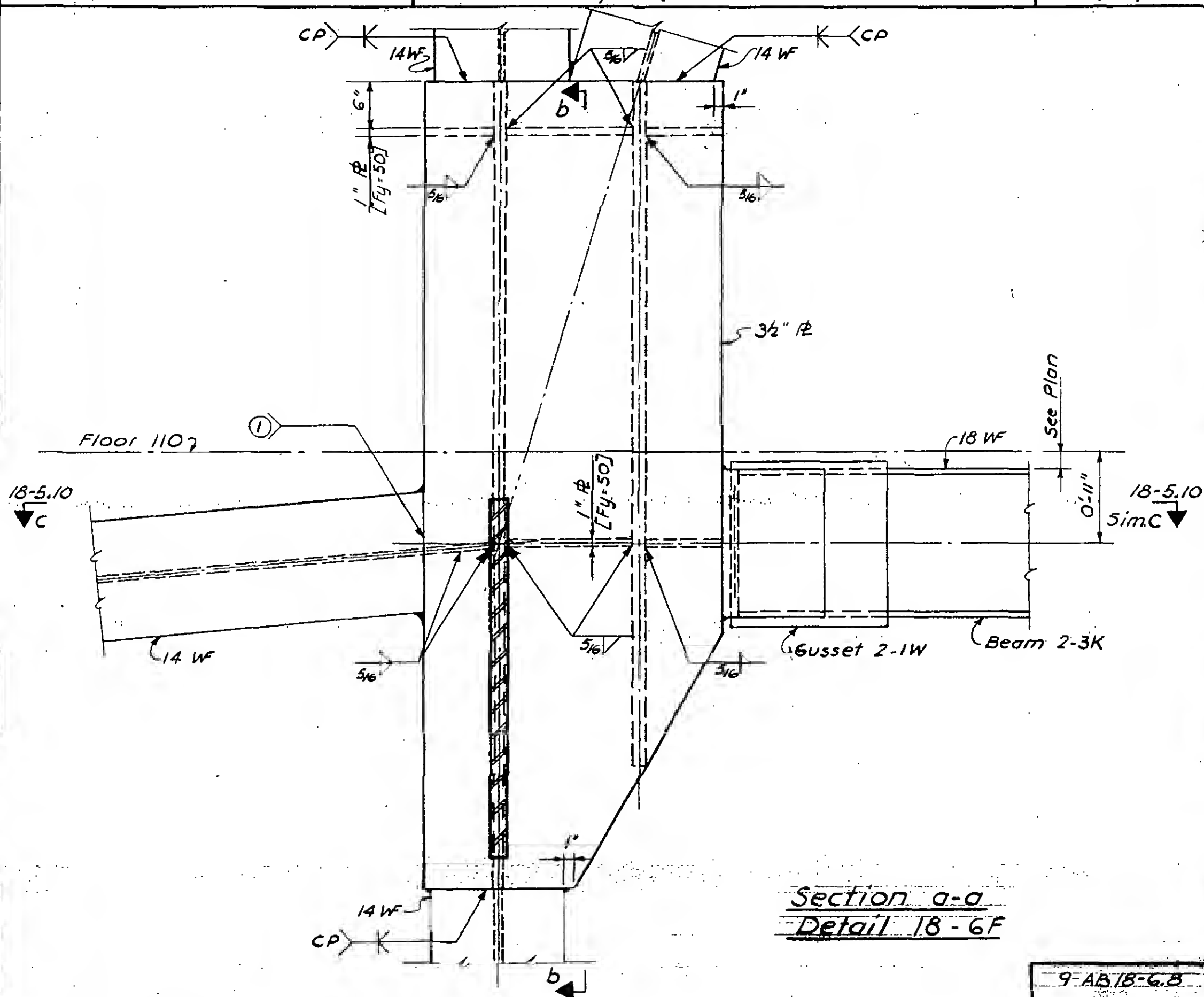
DESIGNED
A. Patel

DRAWN
D. Huggins

REVIEWED

9-AB-18-67

REVISIONS



DESIGNED

DRAWN
F. Smith

REVIEWED

9-AB/8-6.8

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

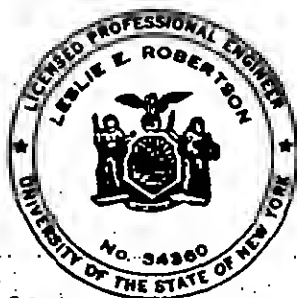
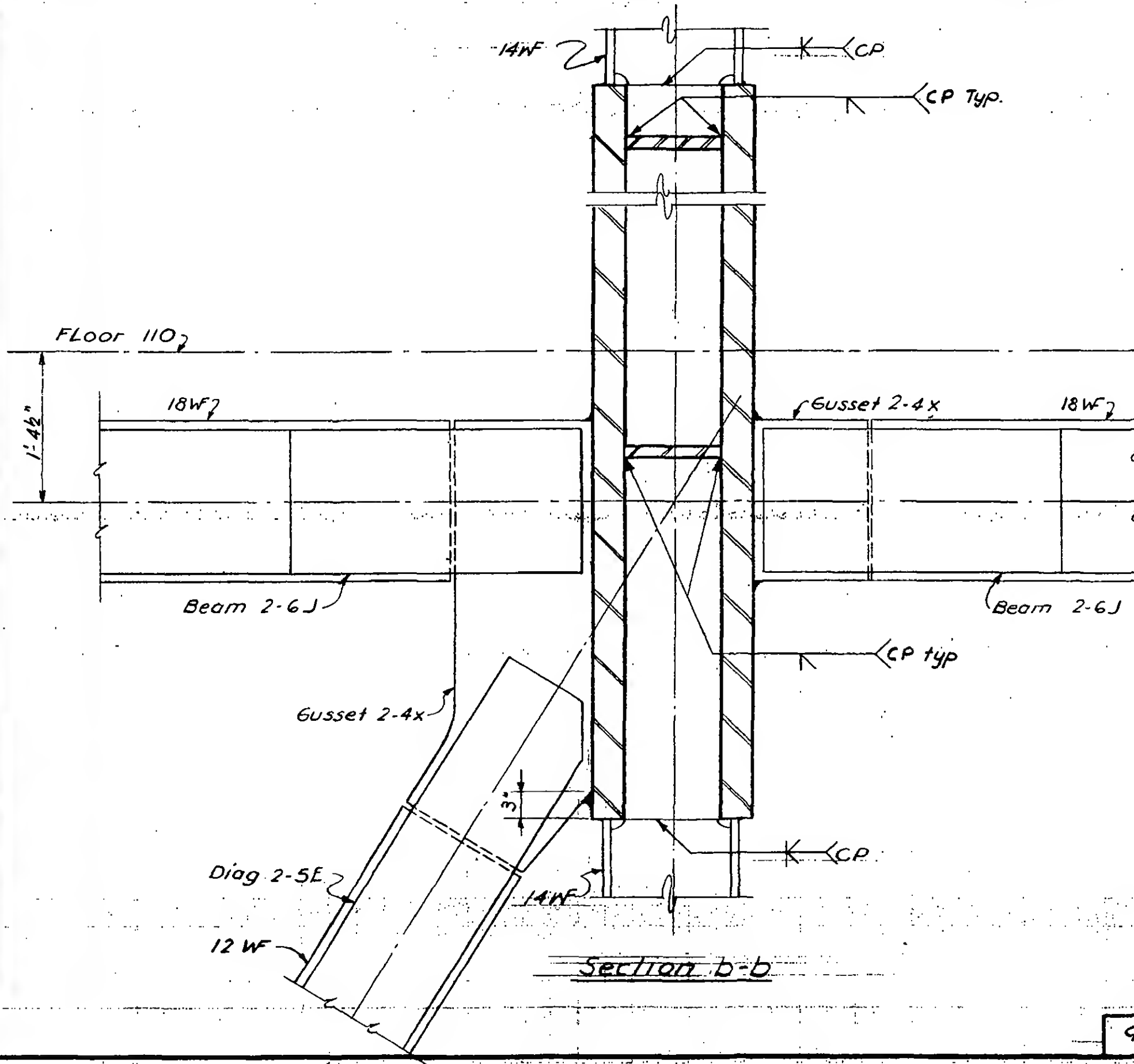
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH, CONNECTION DETAILS LINES 04, 05

DATE 7-10-70

REVISIONS



36

DESIGNED

DRAWN F. Smith

REVIEWED

9-AB/8-6.9

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

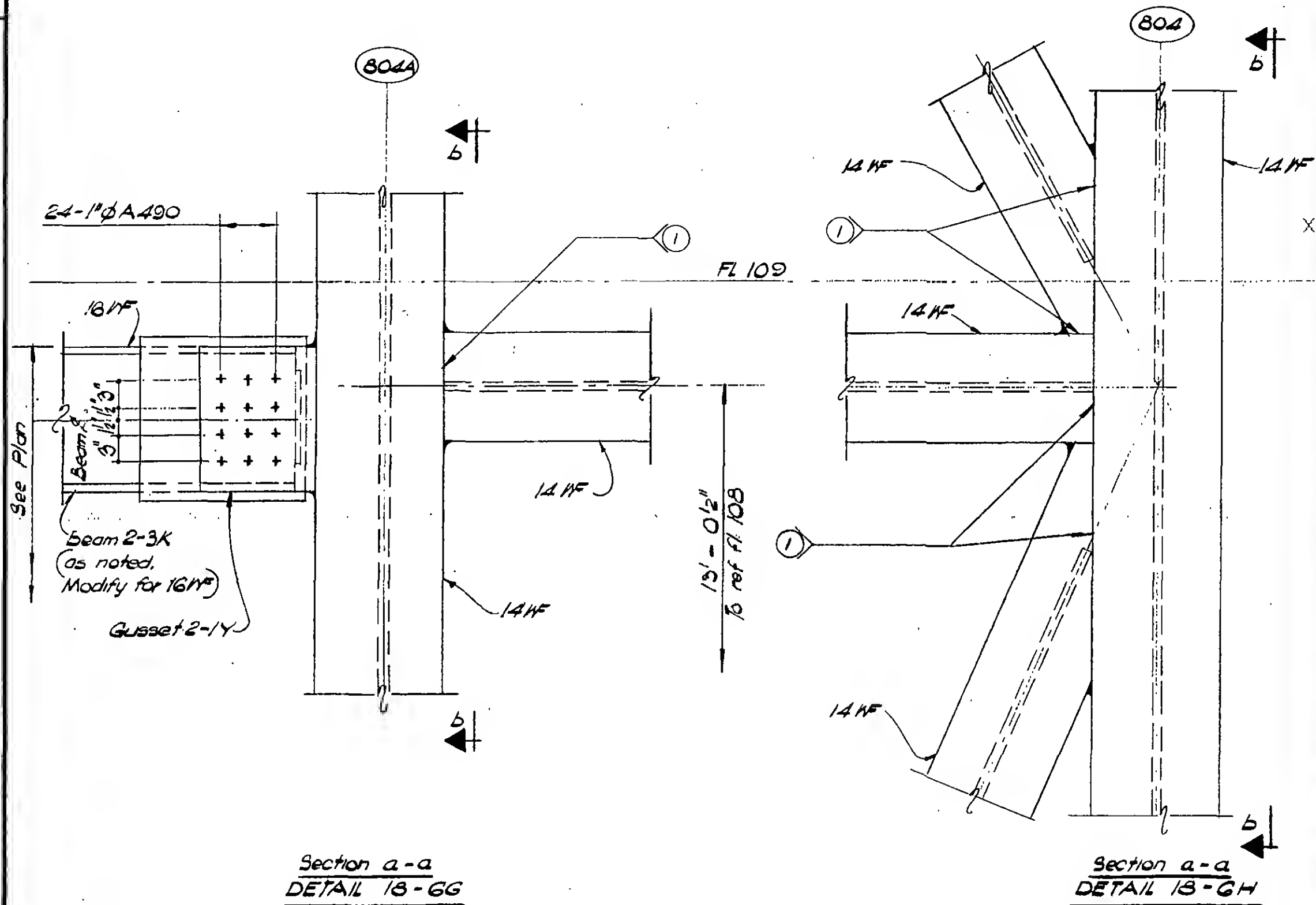
TITLE

FL. 107 - PH. CONNECTION DETAILS - LINES 04 & 05

DATE

1-8-70

REVISIONS



DESIGNED

A. Patel

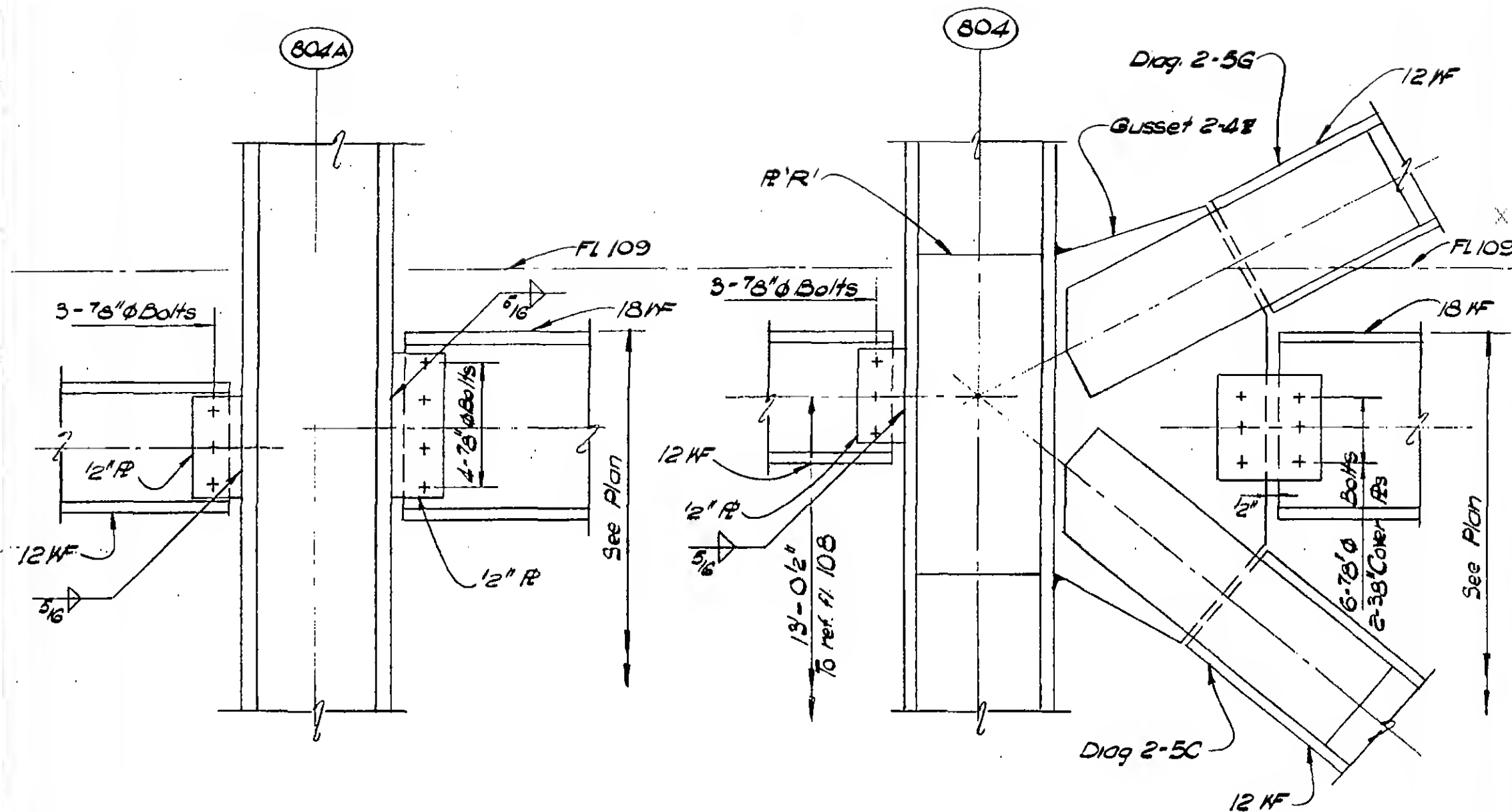
DRAWN

N. Clarke

REVIEWED

E. Drakos

REVISIONS



Section b - b



DESIGNED

A. Patel

DRAWN

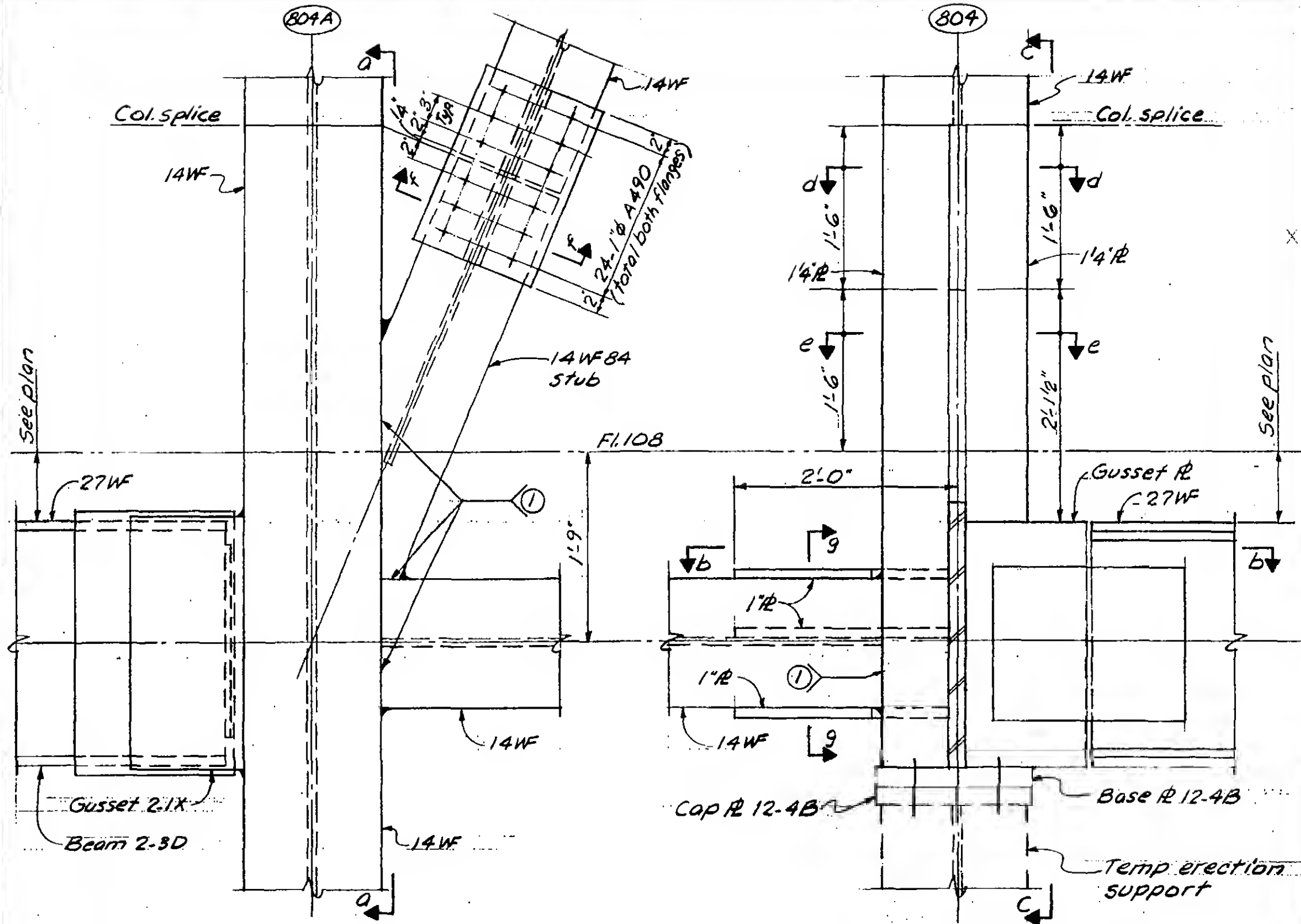
W. Clarke

REVIEWED

E. Drakos

9-AB/8-6.15

REVISIONS



Detail 18-6J

Detail 18-6K

9-AB18-6.16



DESIGNED

DRAWN
A. FRANQUI

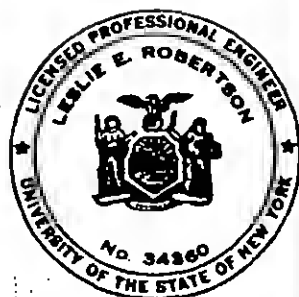
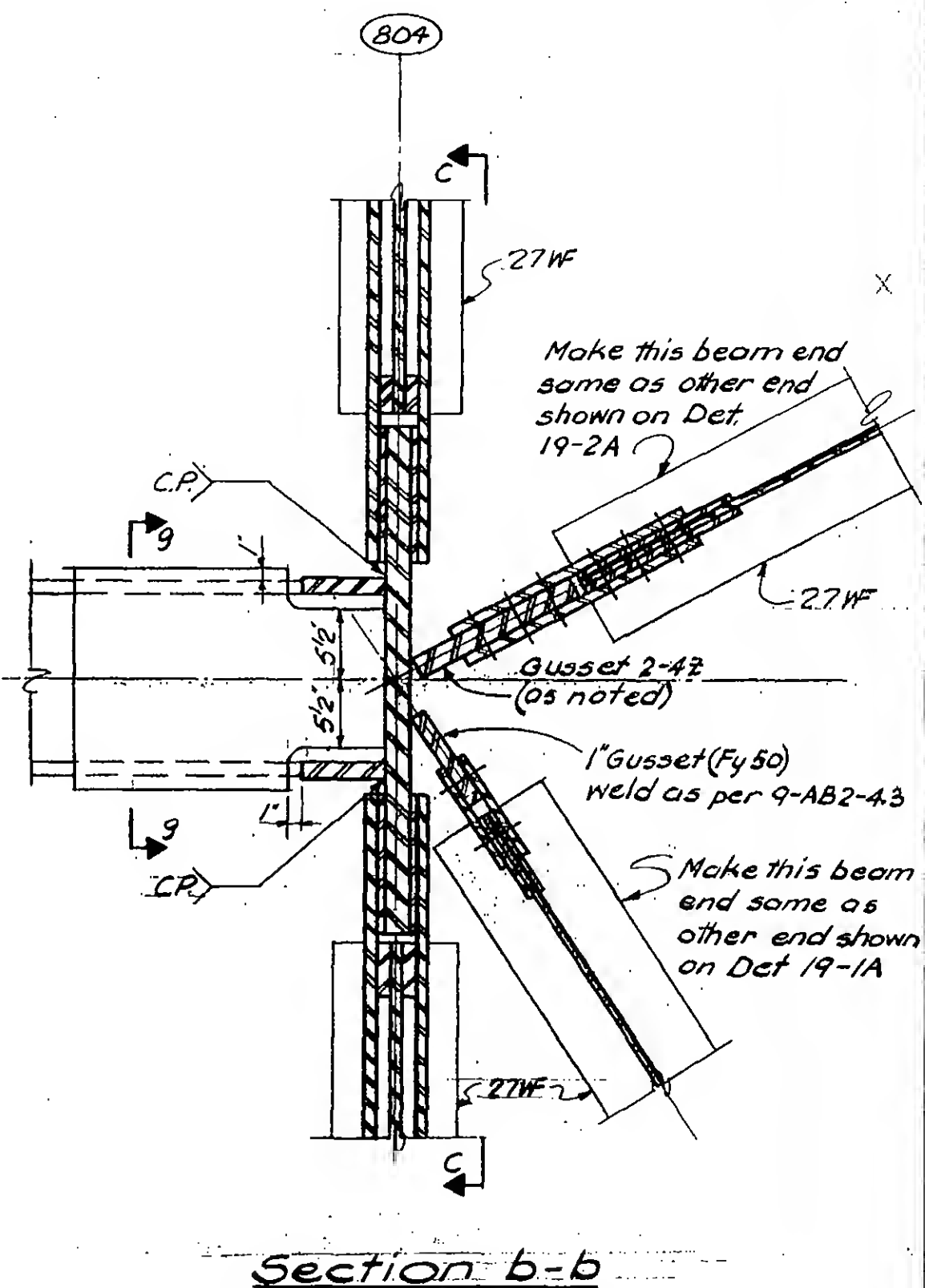
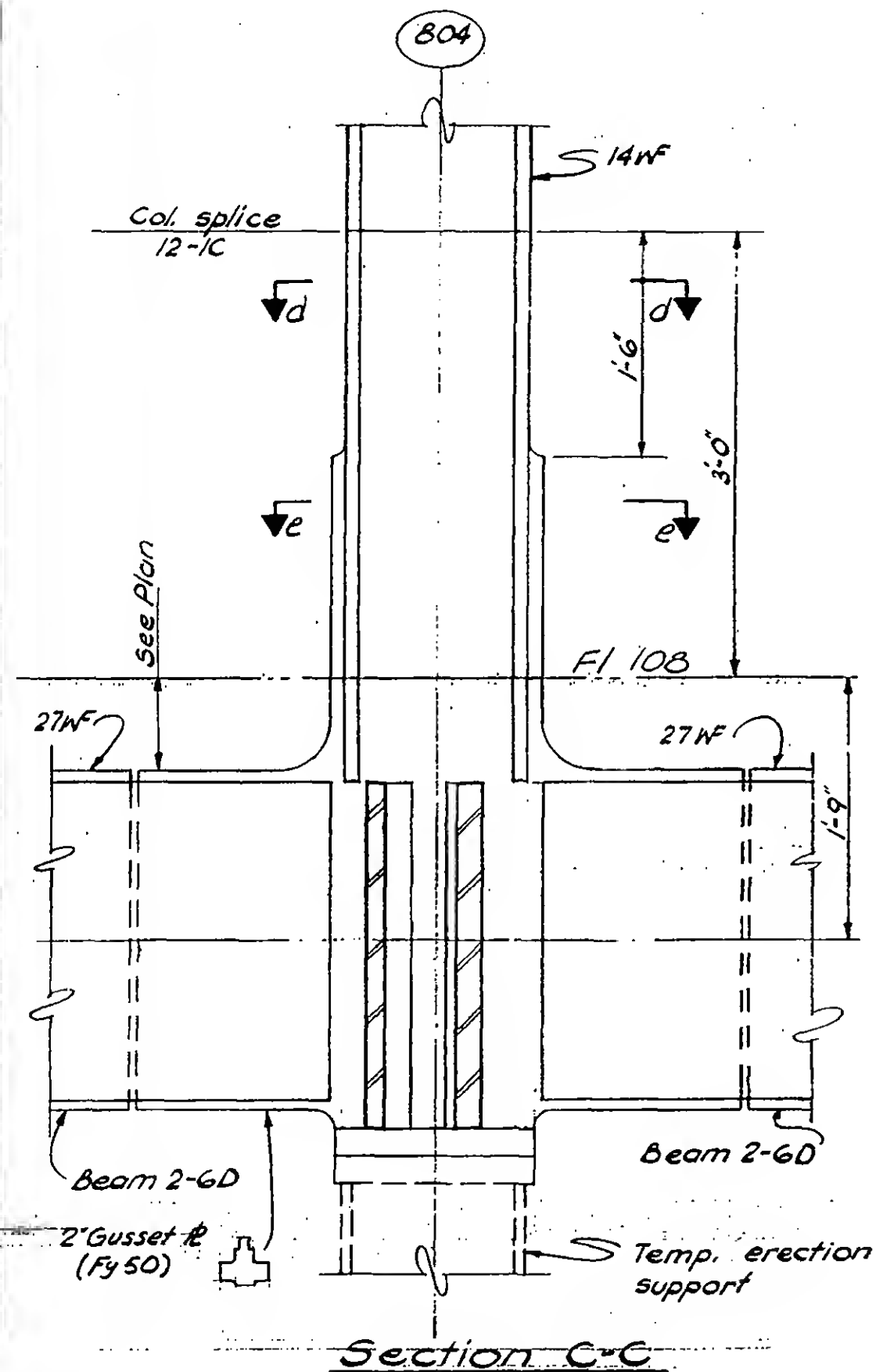
REVIEWED

PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS - LINES 04 & 05

DATE 6-22-70

REVISIONS



DESIGNED

DRAWN

D. Huggins

REVIEWED

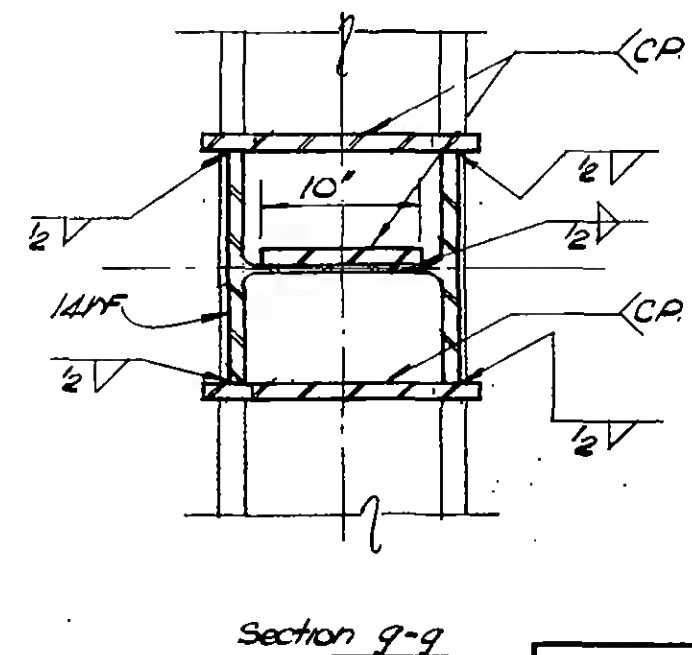
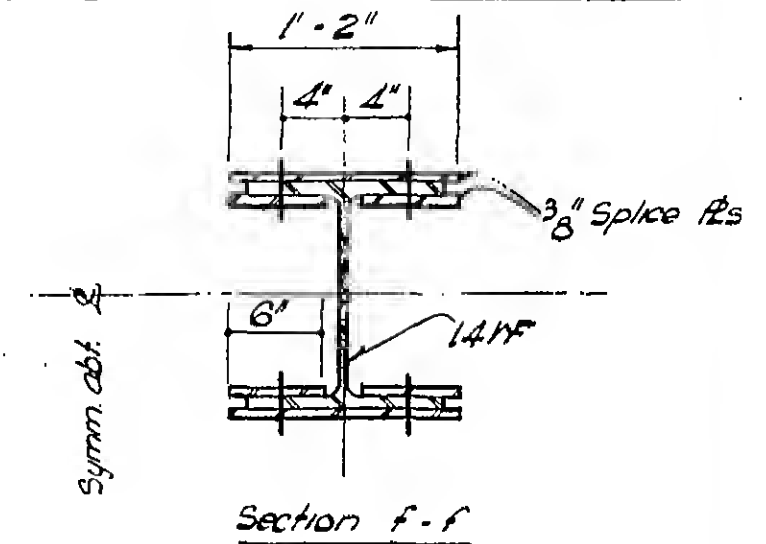
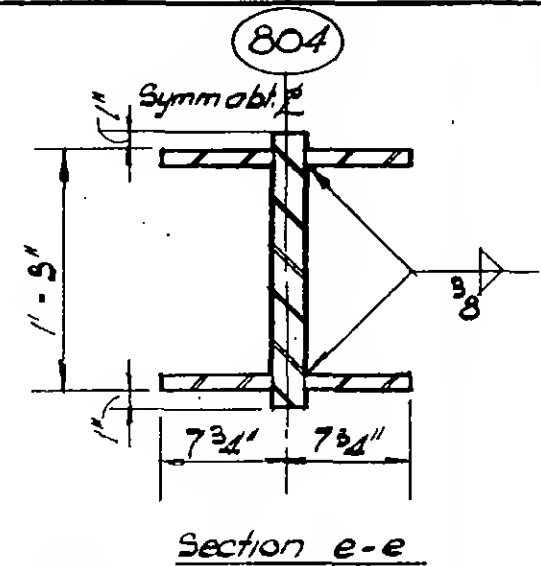
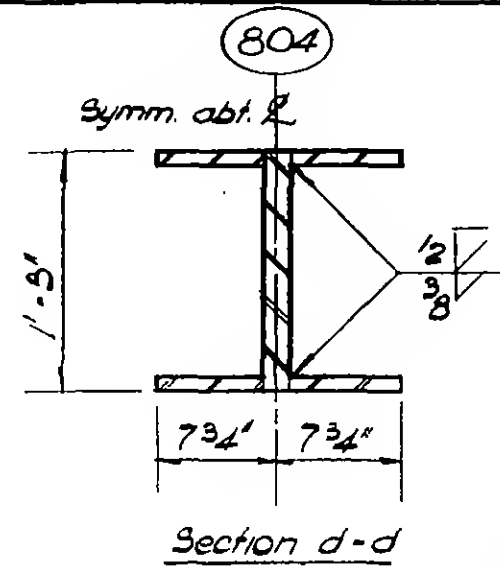
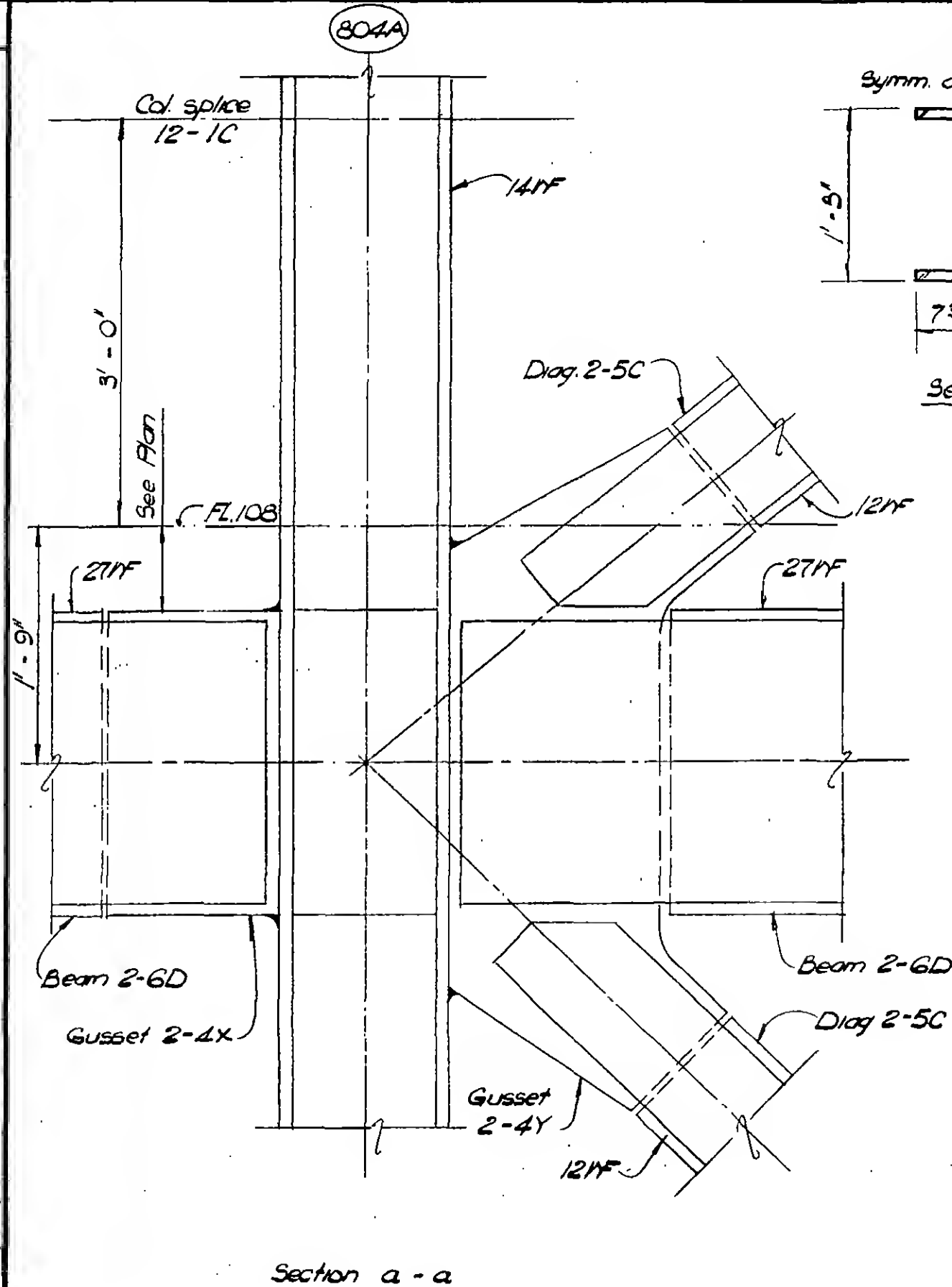
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PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - LINES 04 & 05

DATE 6-22-70

REVISIONS



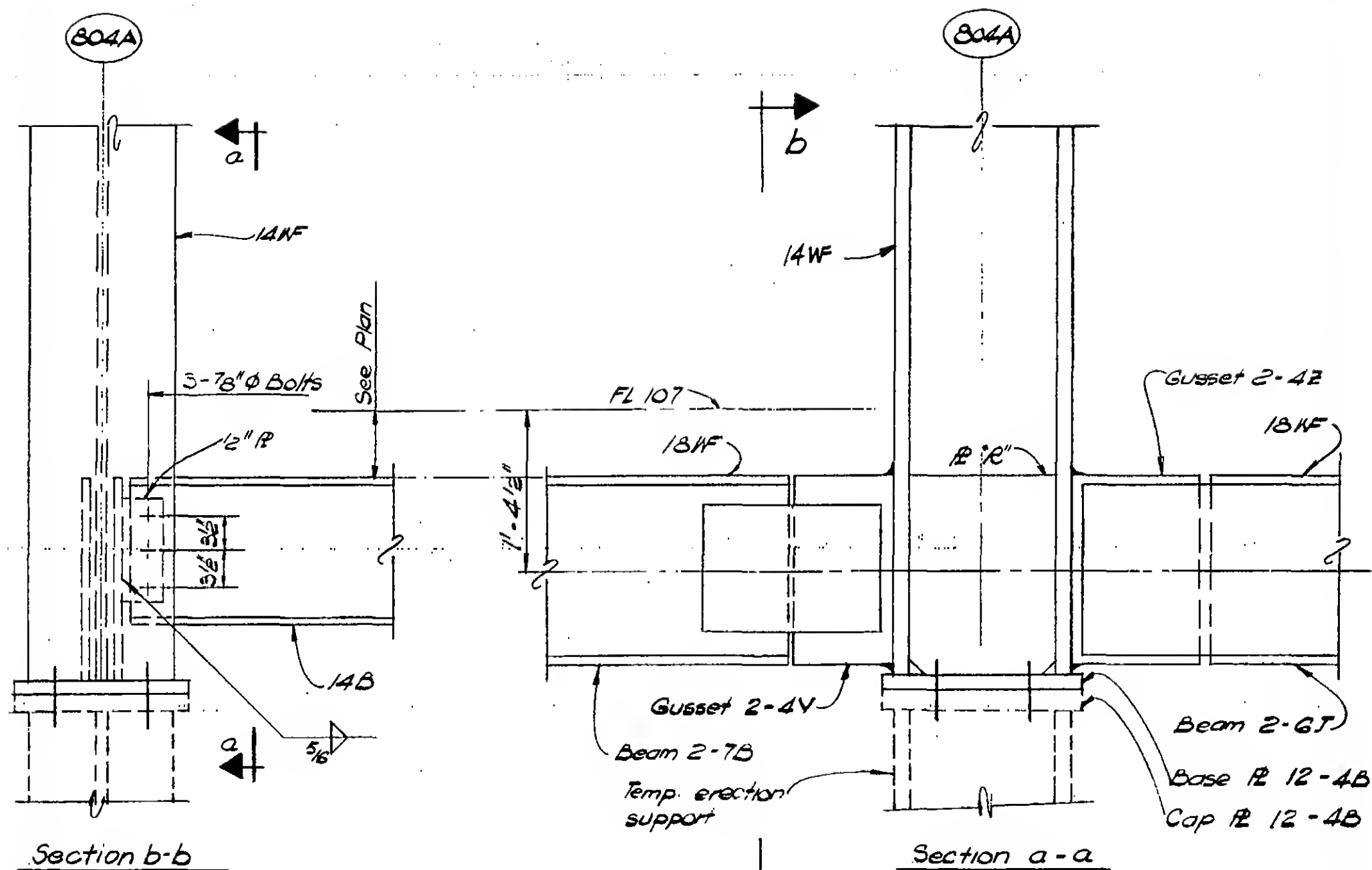
DESIGNED

DRAWN
M. Clarke

REVIEWED

9-AB/8-6:18

REVISIONS



DESIGNED

A. Patel

DRAWN

N. Clarke

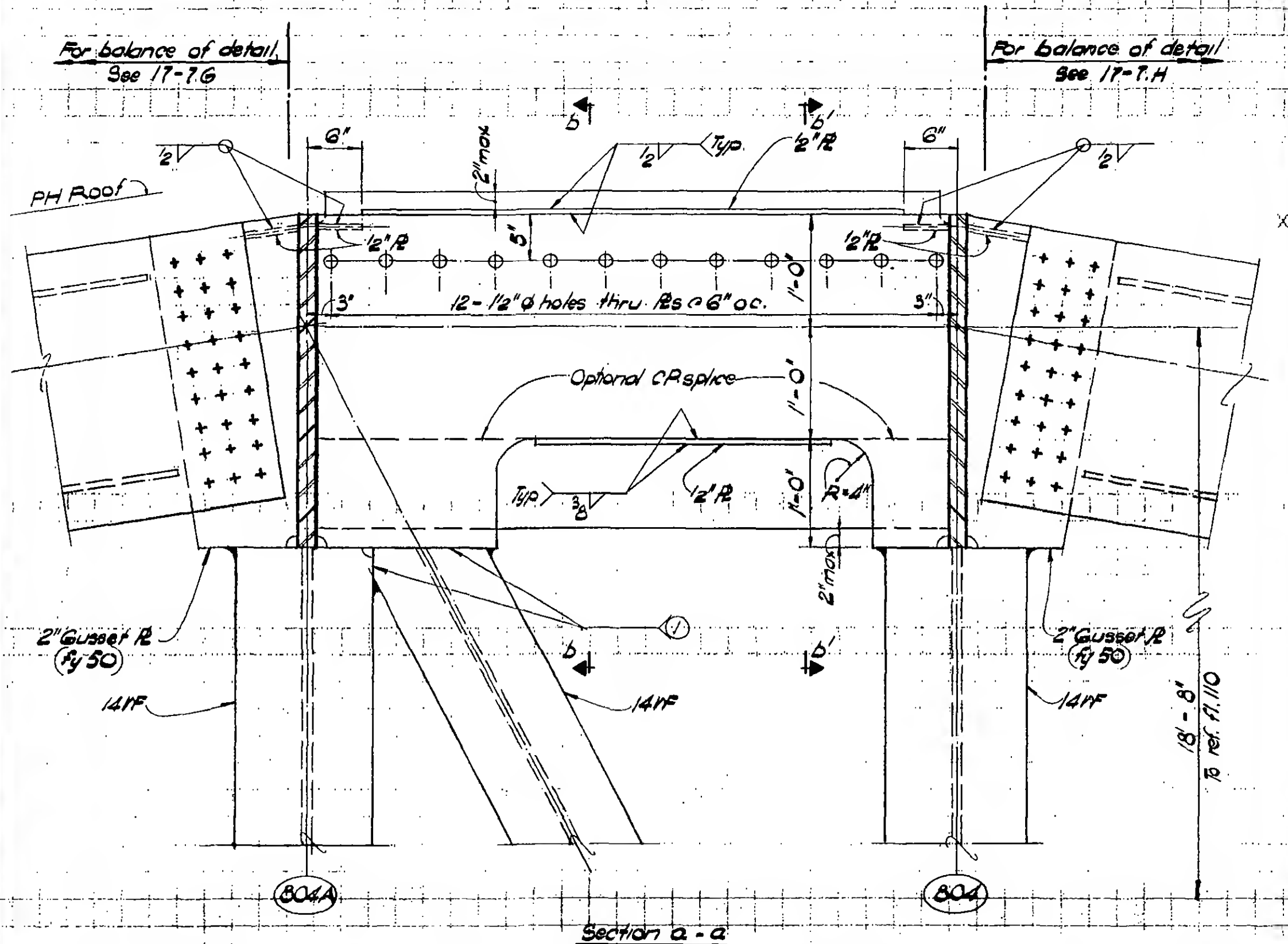
REVIEWED

Detail 18-6M

9 AB/8-6.19

PROJECT THE WORLD TRADE CENTERTITLE FL 107 - PH CONNECTION DETAILS - LINES 004 & 005DATE 10-12-70

REVISIONS



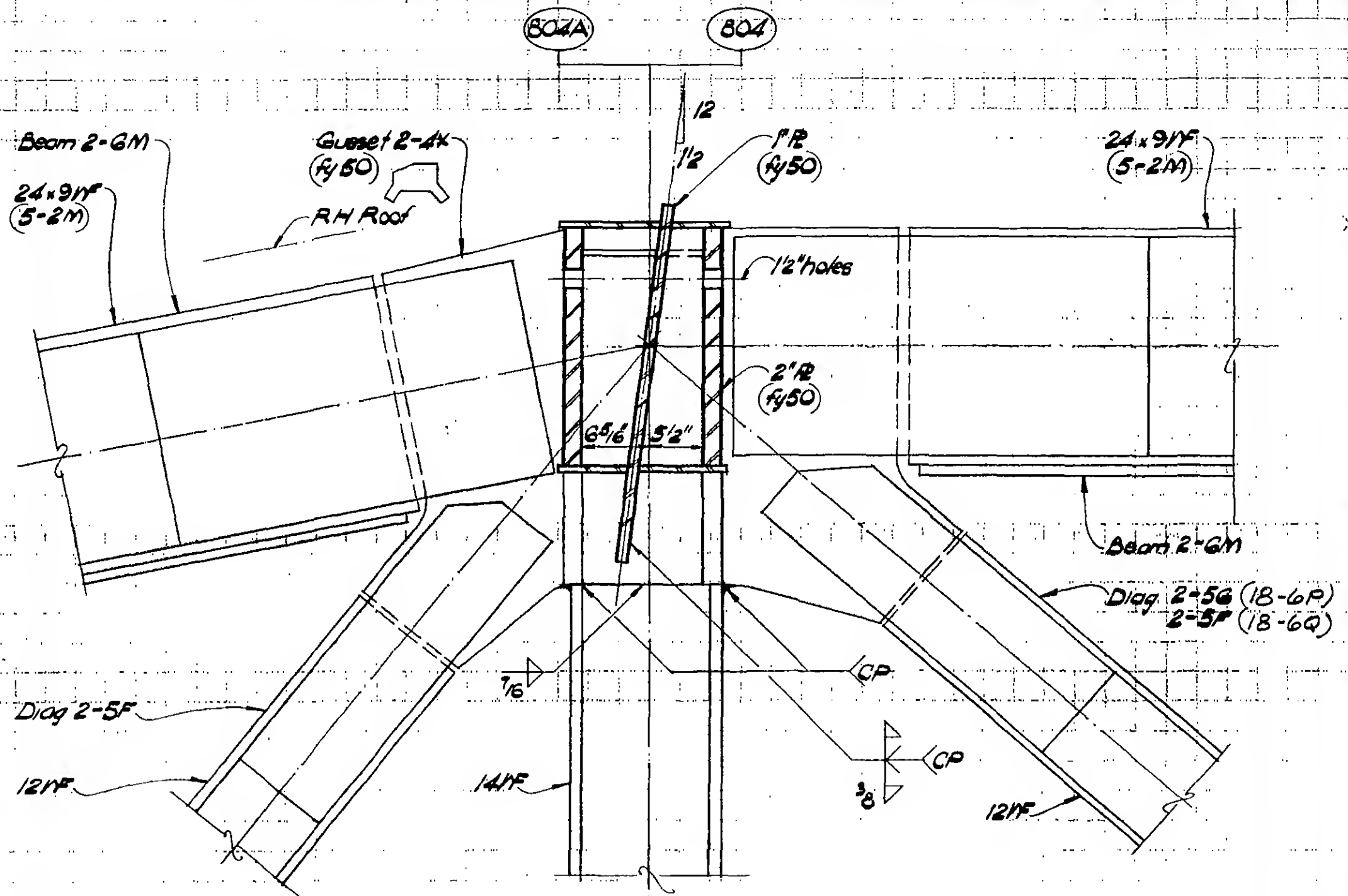
DRAWN
W. Clarke

DETAIL 18-6P

DETAIL 18-6Q

9-B/8-6.30

REVISIONS



Section b-b (as shown)
Section b'-b' (opp hand)



DESIGNED

DRAWN
W. Clarke

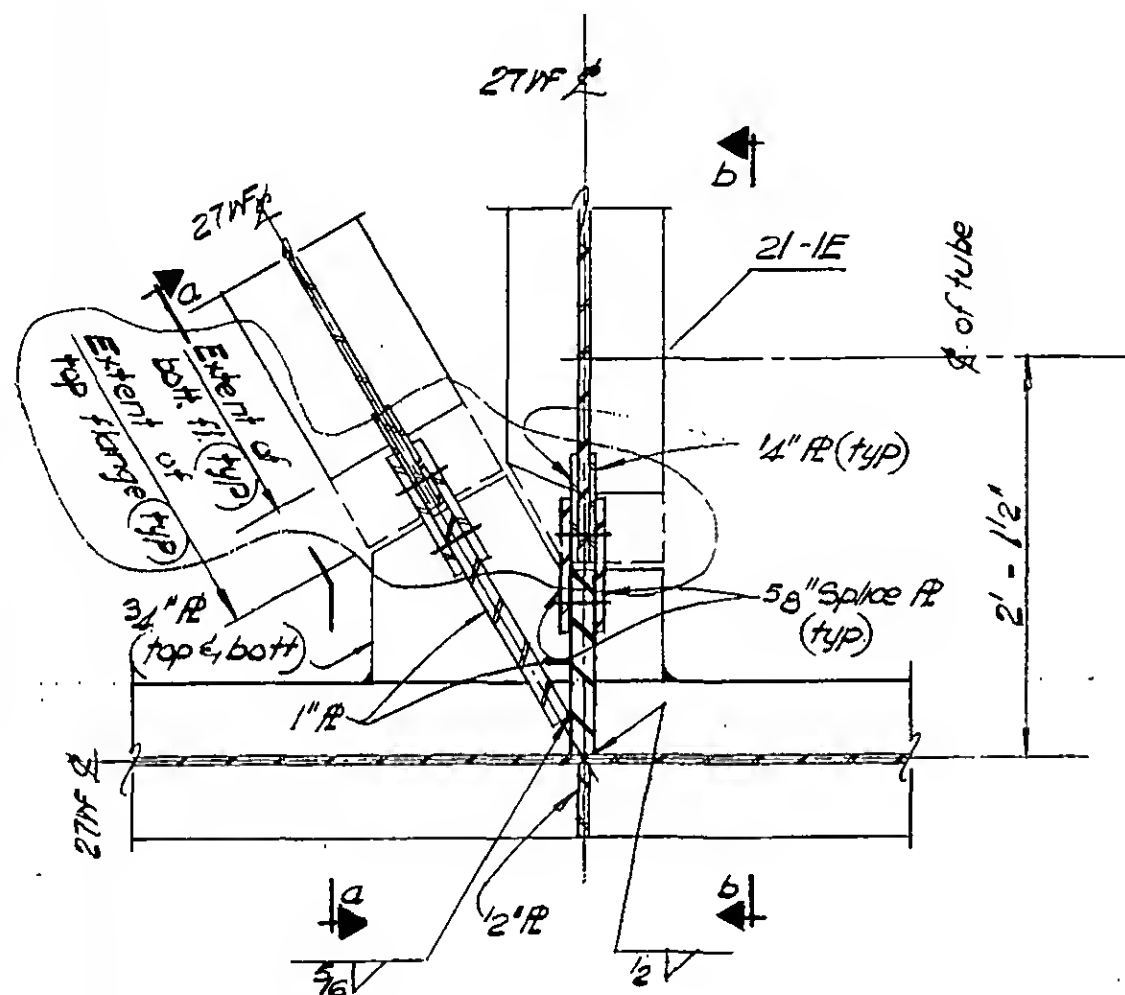
INTERNET

9-15/8-6.31

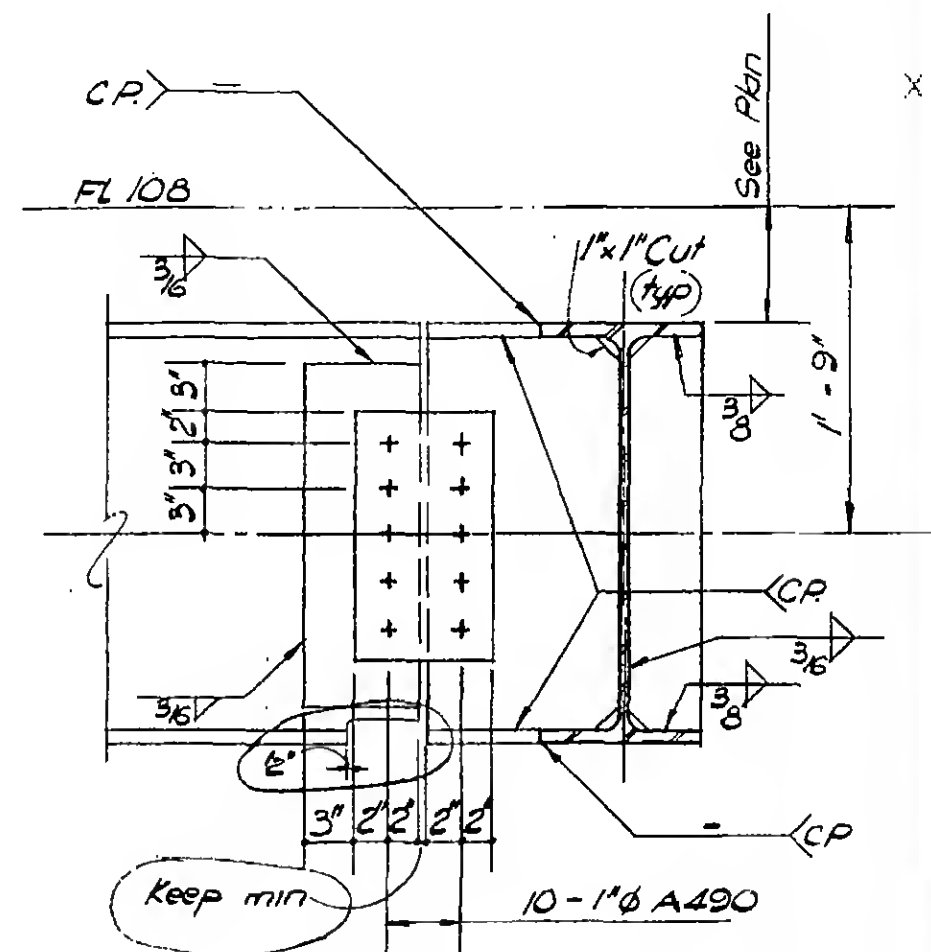
REVISIONS

5-27-70

7-15-70



PLAN



Section a - a (as shown)
Section b - b (opp. hand)

DETAIL 19 - 1A



DESIGNED
L. Quirko

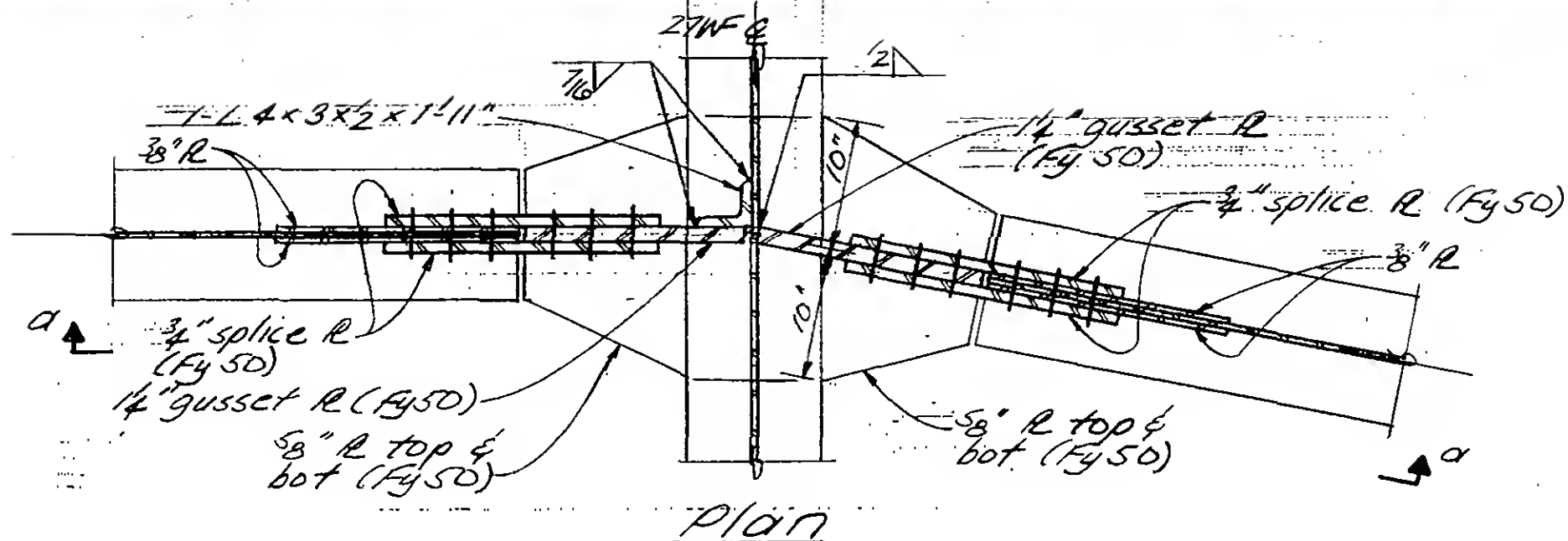
DRAWN
W. Clarke

REVIEWED
E. Drakos

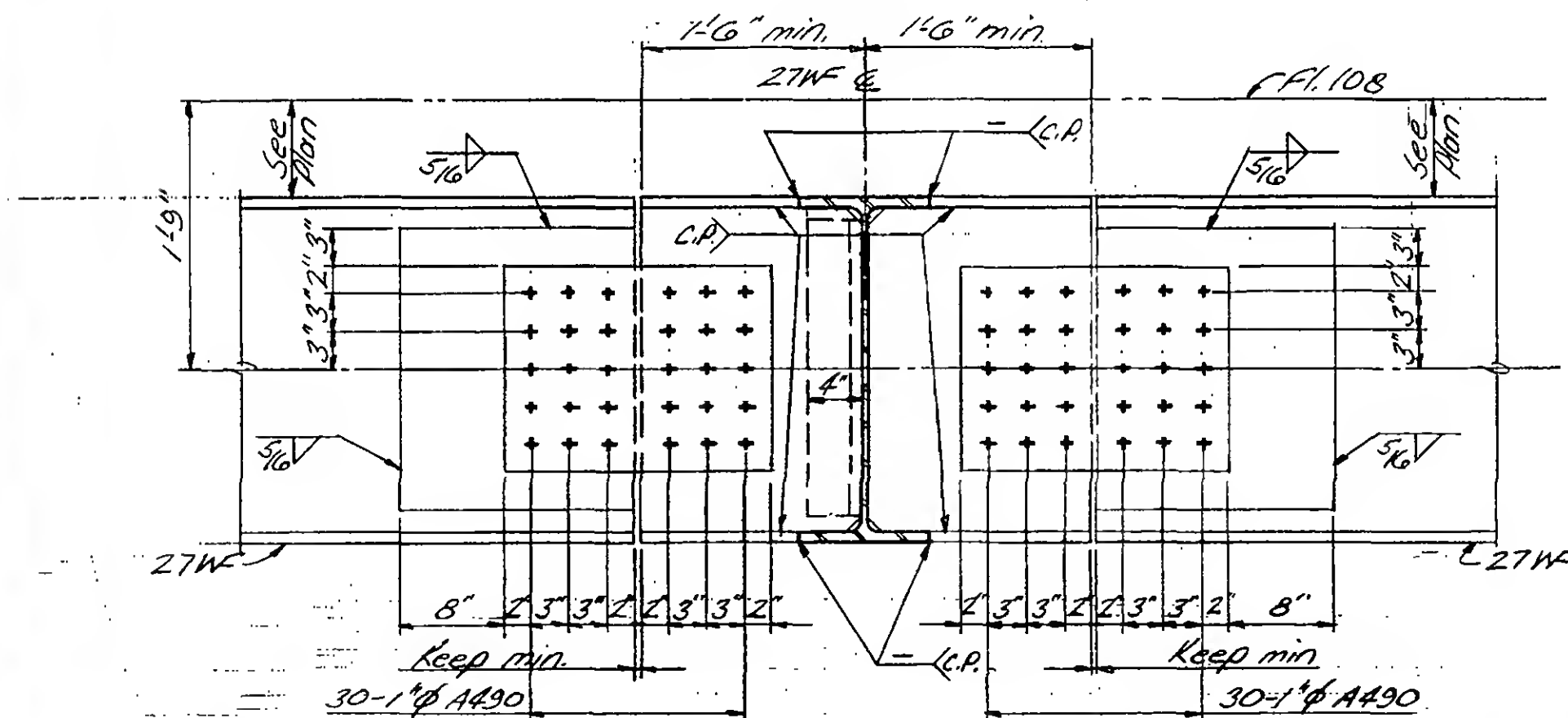
9-AB/9-1.1

REVISIONS

5-27-70

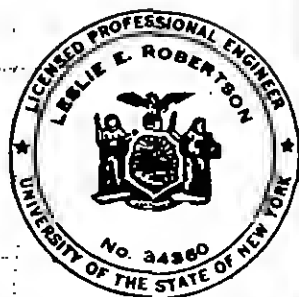


Plär



Section a-a

Detail 19-18



DESIGNED
L. Virko

DRAWN
Adams

REVIEWED

E. Drakos

9-AB19-11Z

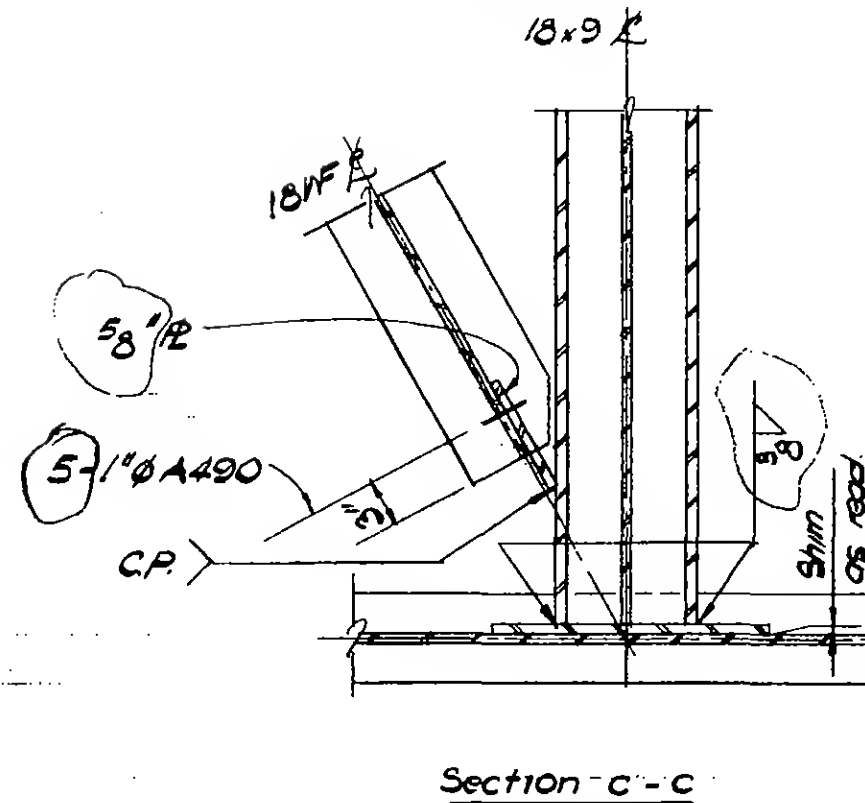
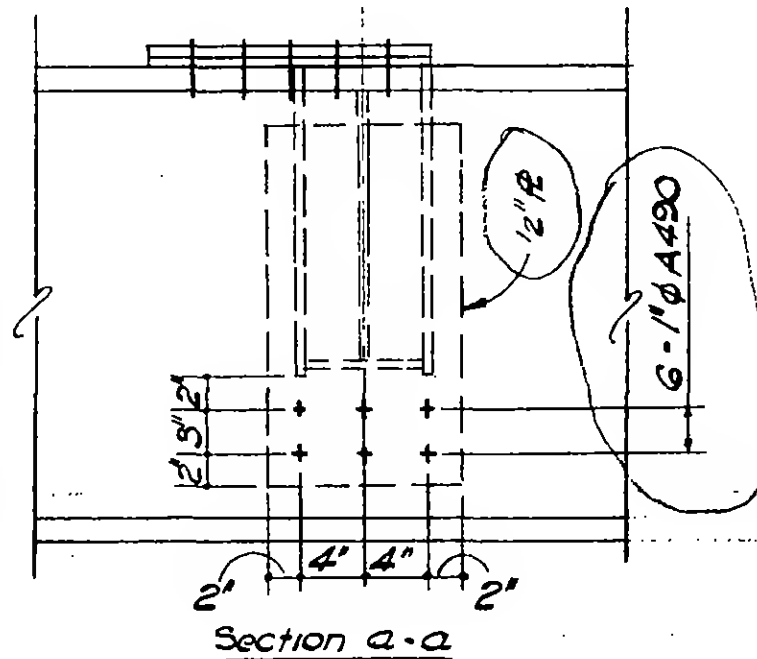
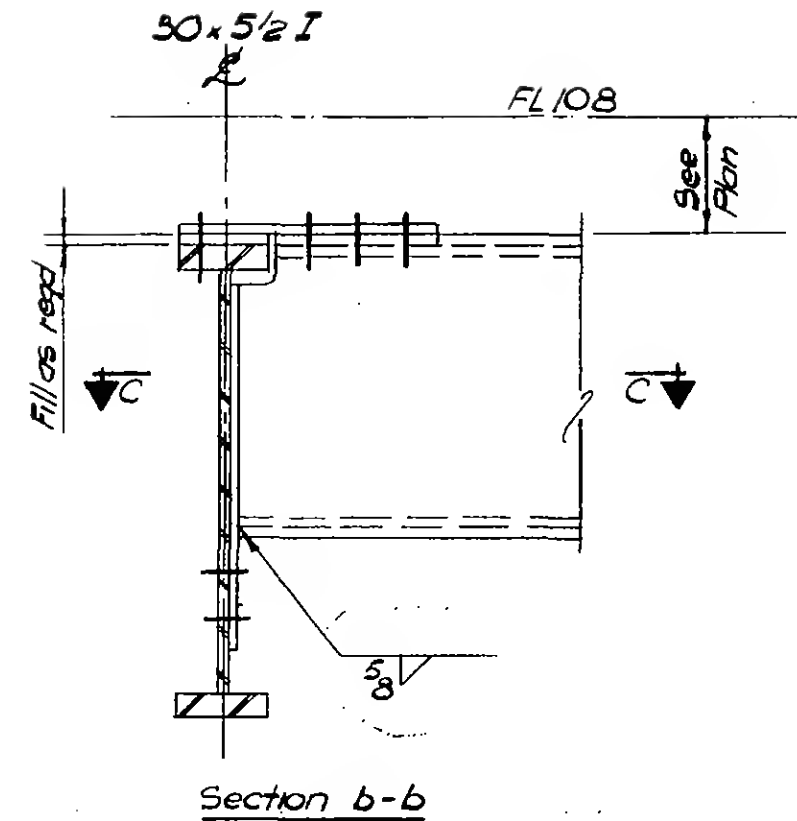
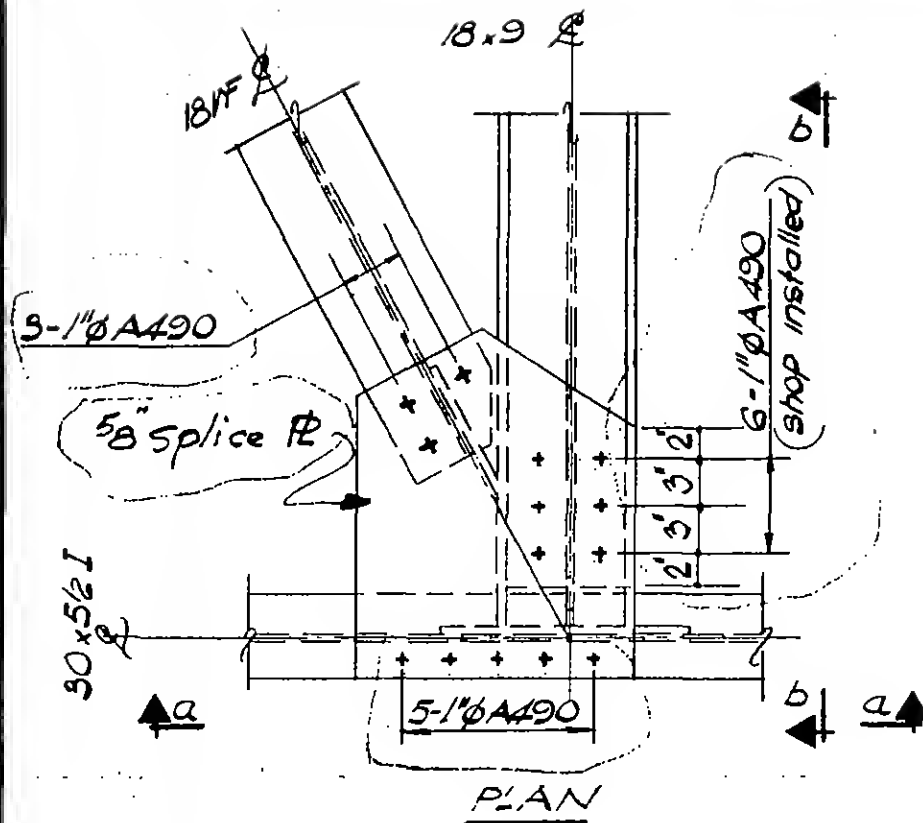
PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - FL 108

DATE 4-1-70

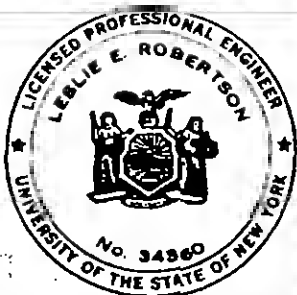
REVISIONS

5-27-70



DETAIL 19 - 1C

9-AB/9-1.3



DESIGNED

DRAWN N. Clarke

REVIEWED E. Drakos

Structural & Civil Engineers

PROJECT

SUBJECT THE WORLD TRADE CENTER.

TITLE

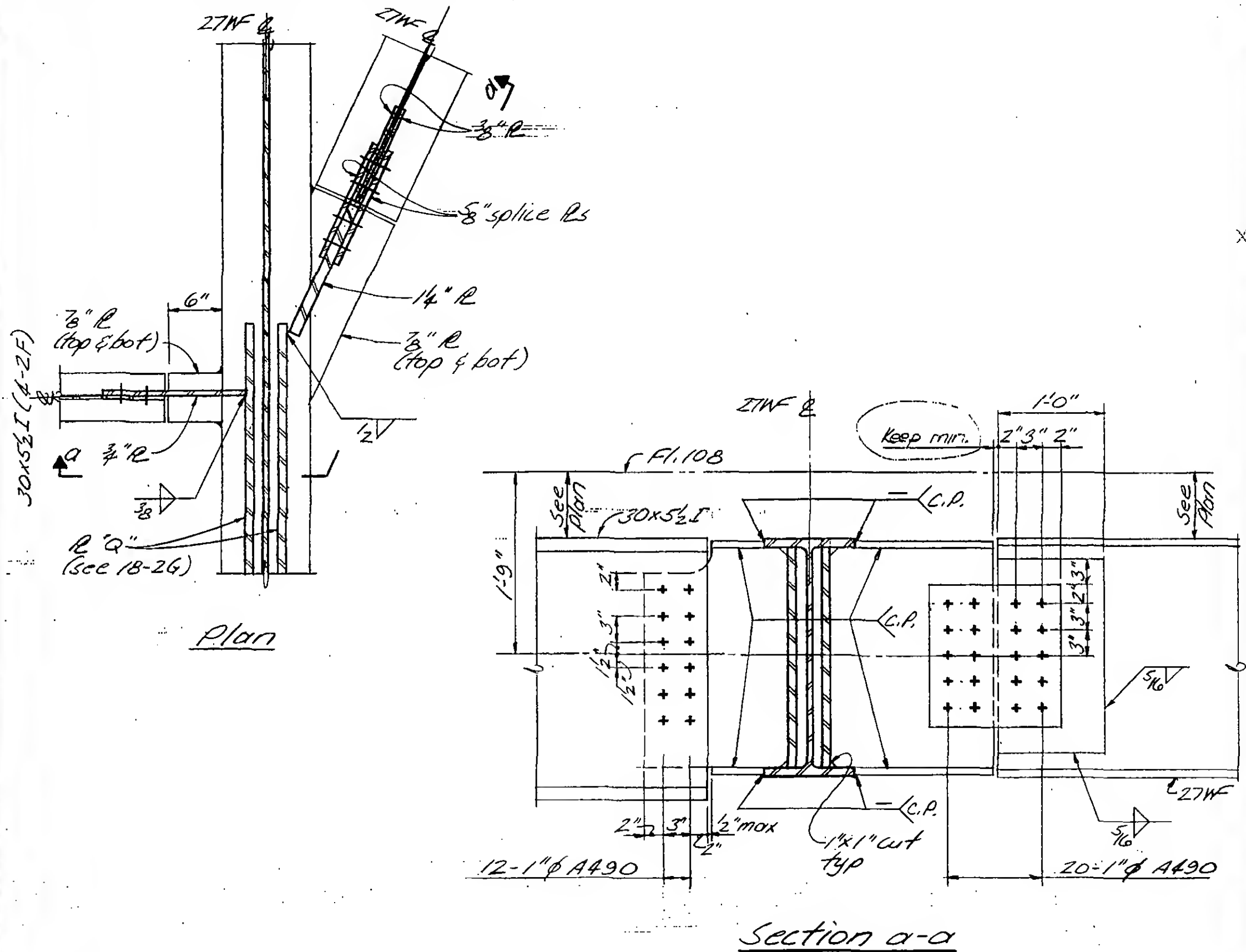
TITLE FL 107-PH CONNECTION DETAILS - FL 108

DATE

4-1-70

5-27-70

7-15-70



Detail 19-1D

Section a-a



DESIGNED
L. Quirko

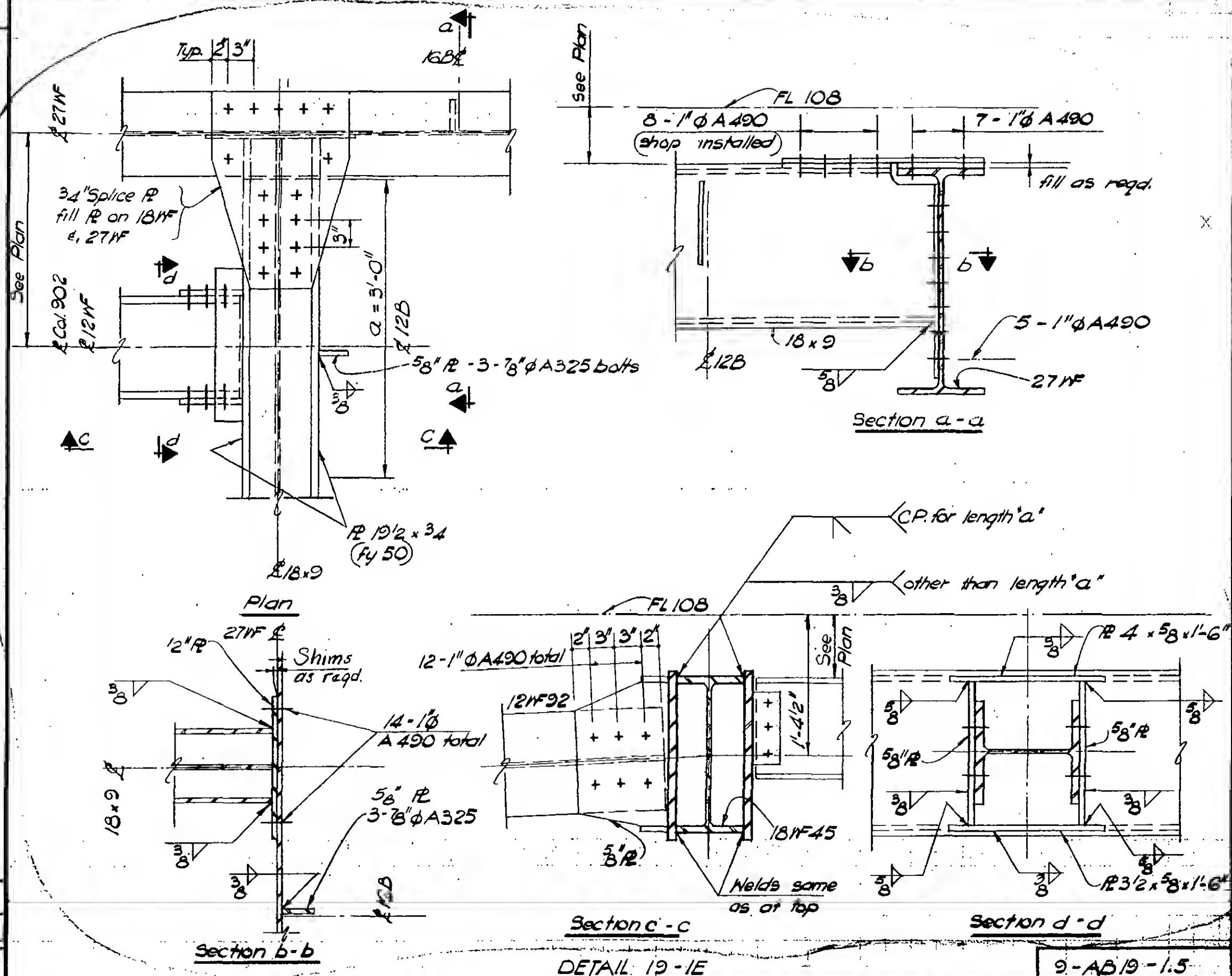
DRAWN
J. Adams

REVIEWED
E. Drakos

9-AB19-14

REVISIONS

5-27-70



DESIGNED

A. 6000

N. Clarke

REVIEWED BY

E. Drakos

DETAIL 19-1E

9-AB/9-1.5

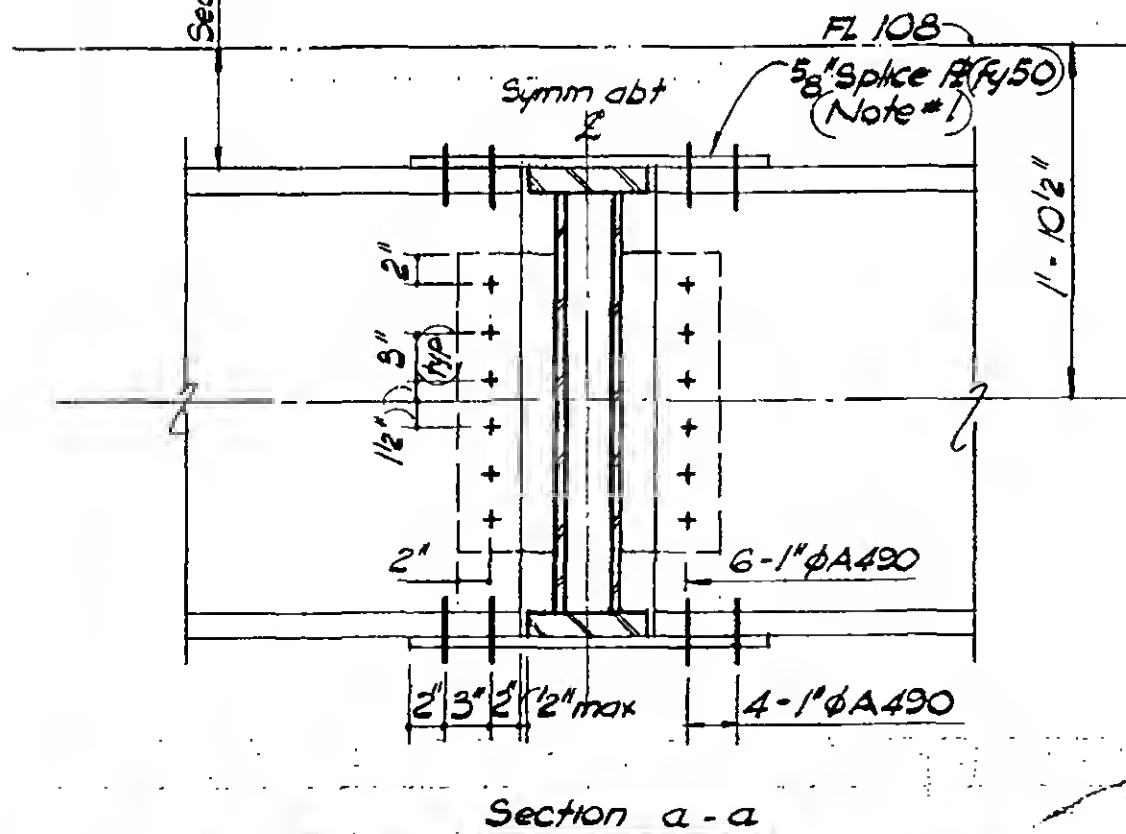
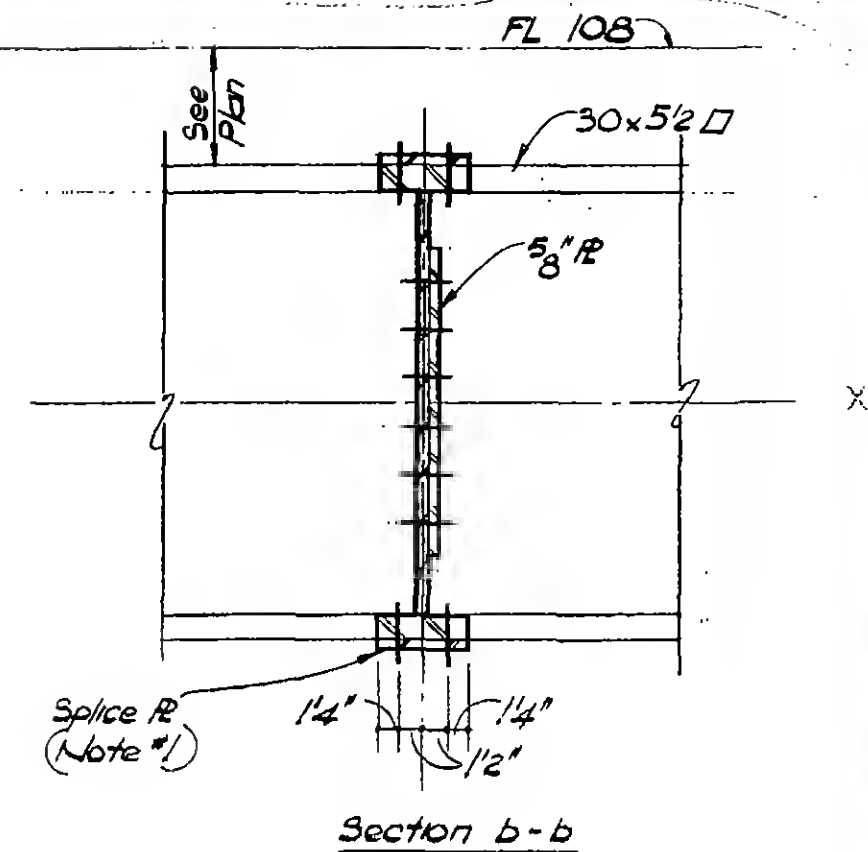
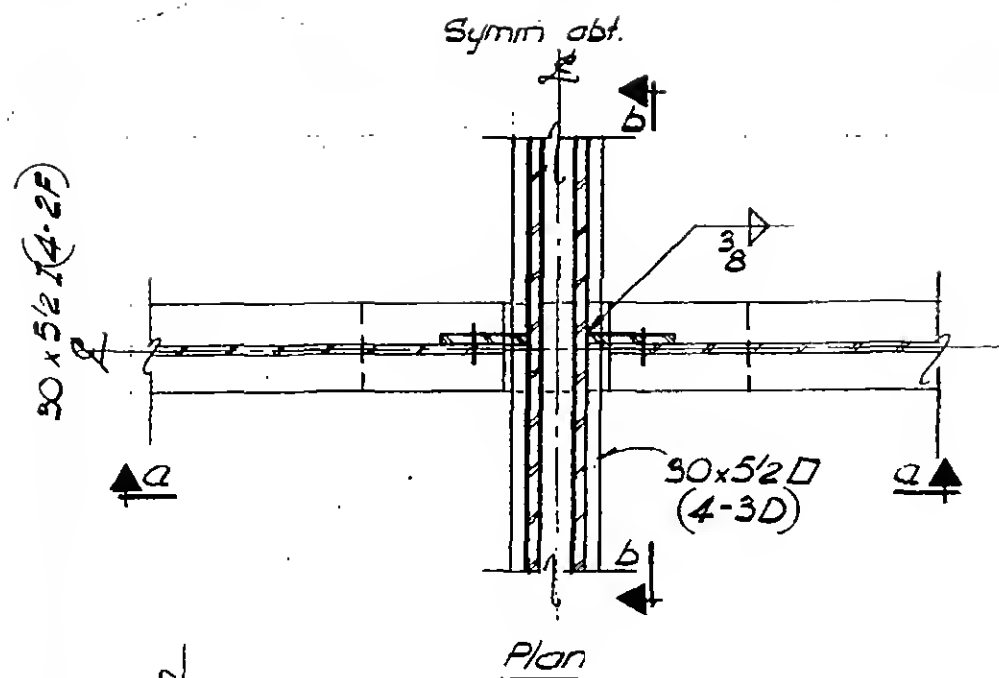
PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - FL 108

DATE 4-1-70

REVISIONS

5-27-70



NOTES:

1. Splice plates shall have holes $\frac{3}{16}$ " larger than nominal bolt diameter. In all other places, holes shall be $\frac{1}{16}$ " larger.

DESIGNED
L. QuirkDRAWN
W. ClarkeREVIEWED
E. Drakos

DETAIL 19-1F

9-AB/9-1.6

PROJECT

THE WORLD TRADE CENTER

TITLE

FL 107-PH CONNECTION DETAILS - FL 108

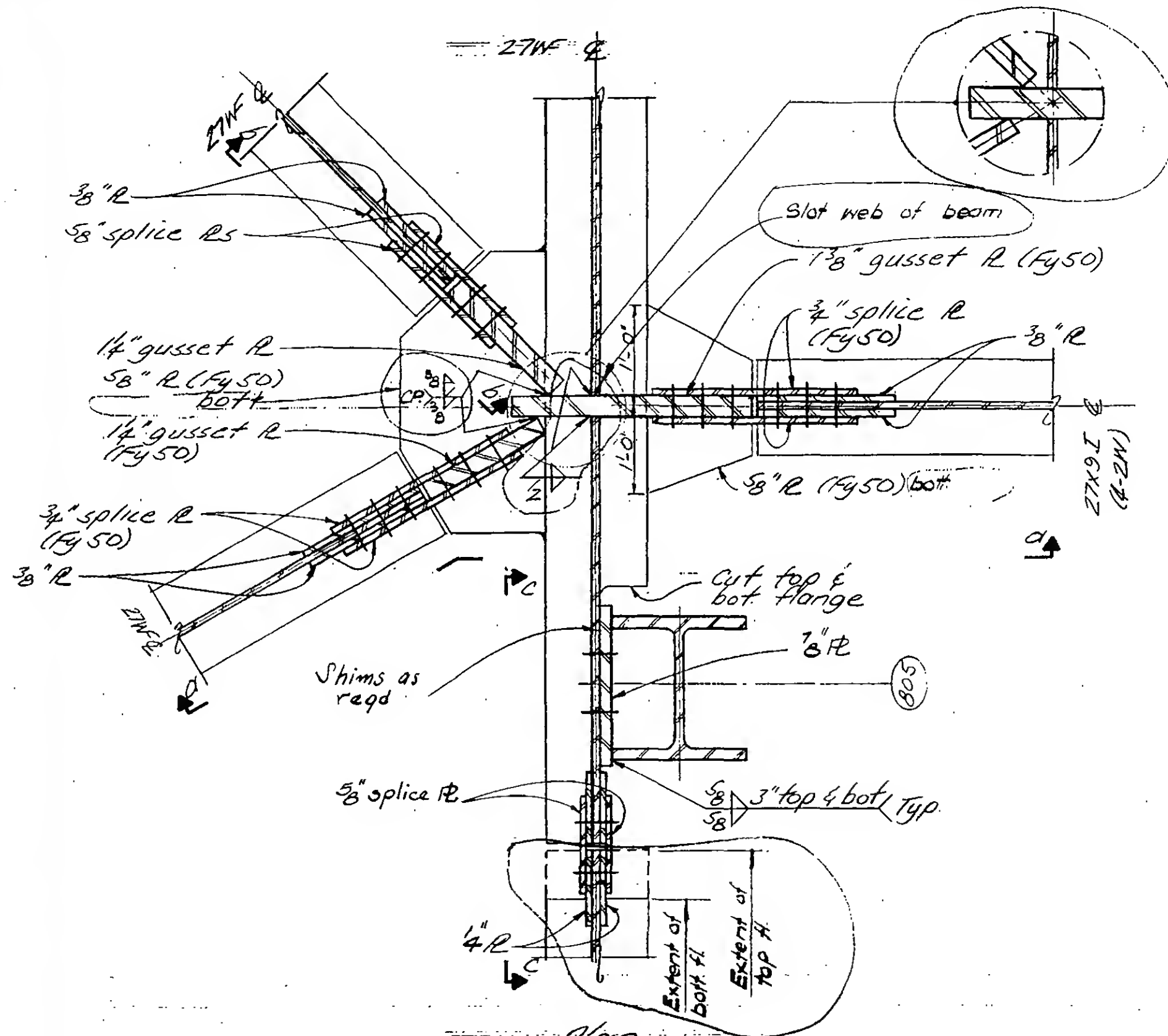
DATE

4-1-70

REVISIONS

5-27-70

7-15-70

DESIGNED
L. QuirkoDRAWN
W. ClarkeREVIEWED
E. DracosPlan
Detail 19-2A

9-AB19-2.1

PROJECT THE WORLD TRADE CENTER

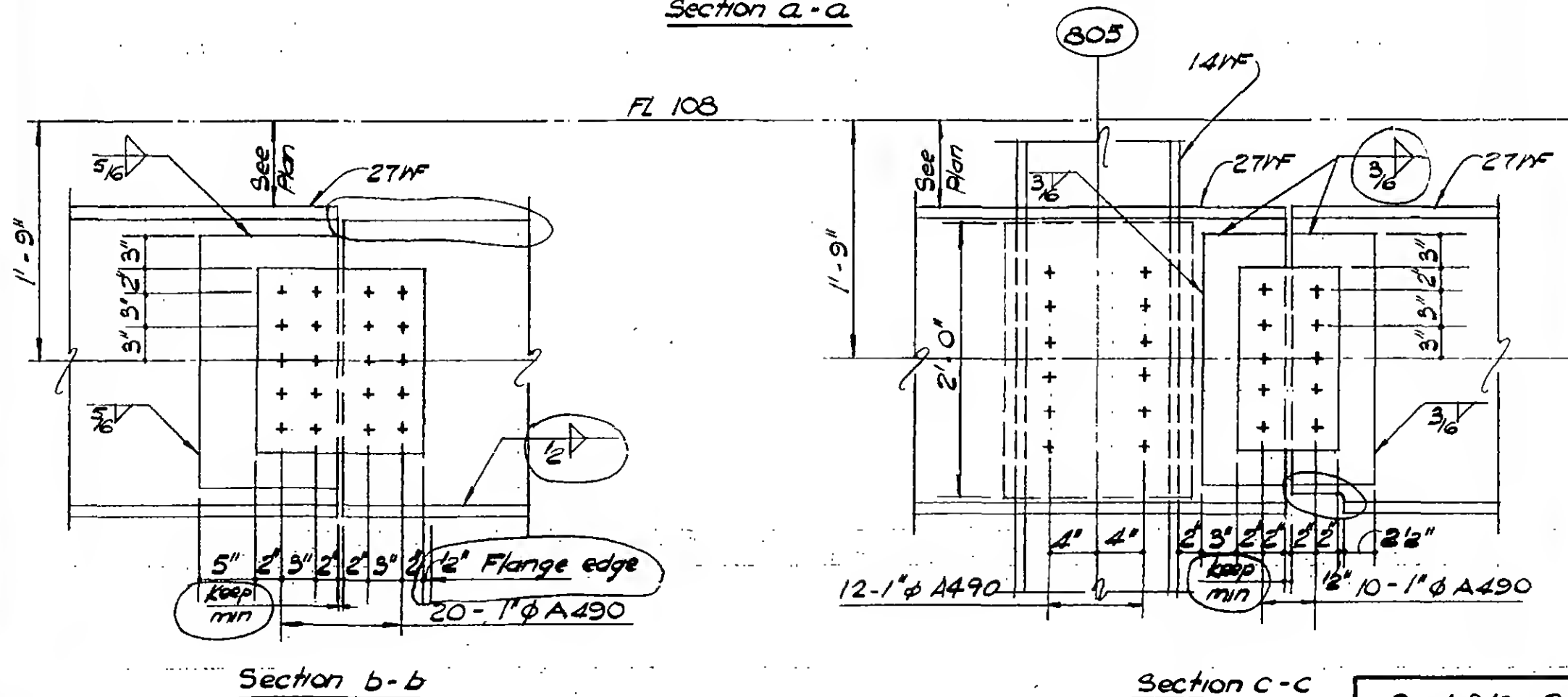
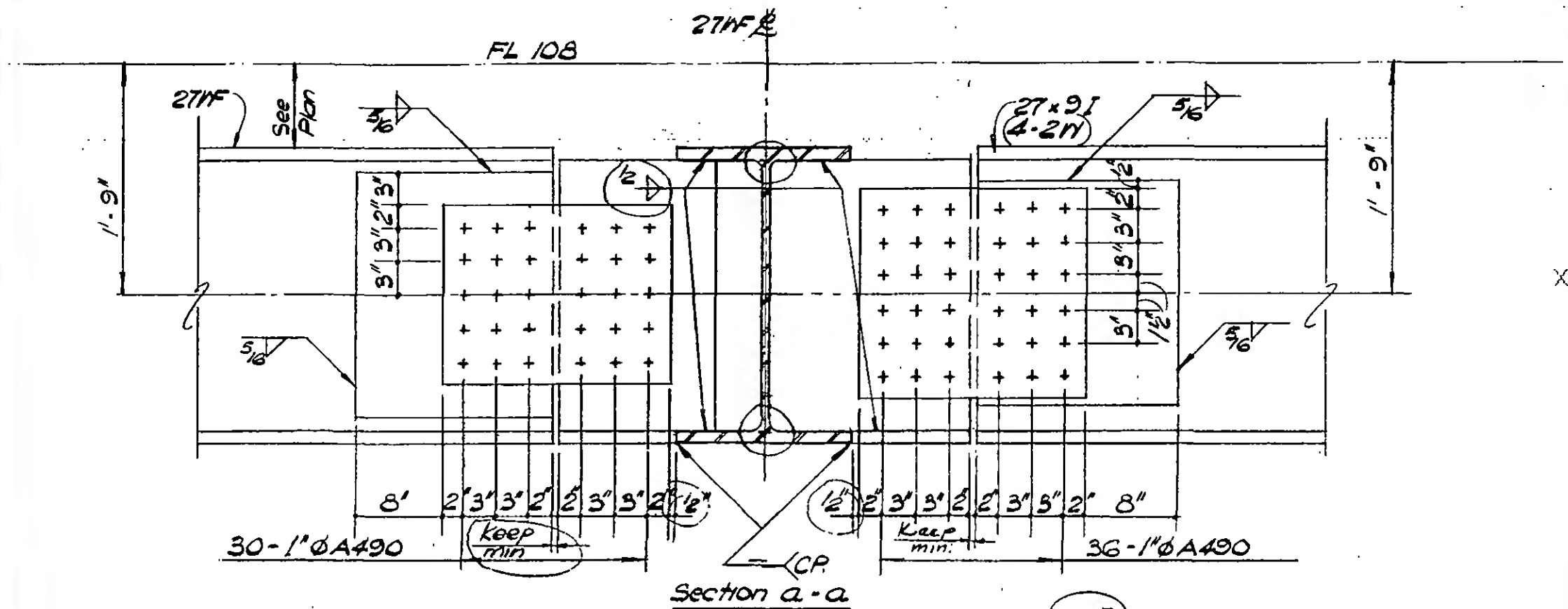
TITLE FL 107-PH CONNECTION DETAILS - FL 108

DATE 4-1-70

REVISIONS

5-27-70

7-15-70

DESIGNED
L. QuirkDRAWN
W. ClarkeREVIEWED
E. Drakos

9-AB/9-2.2

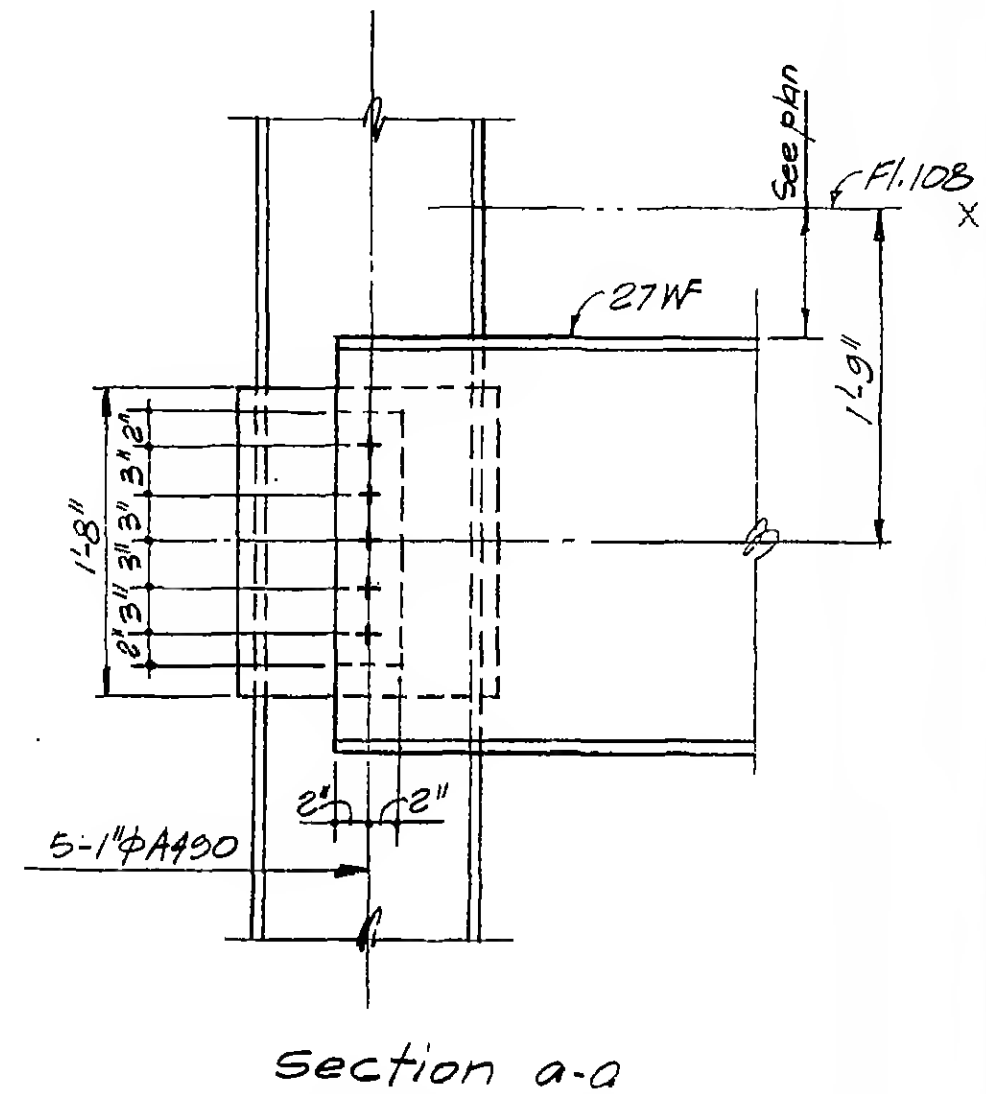
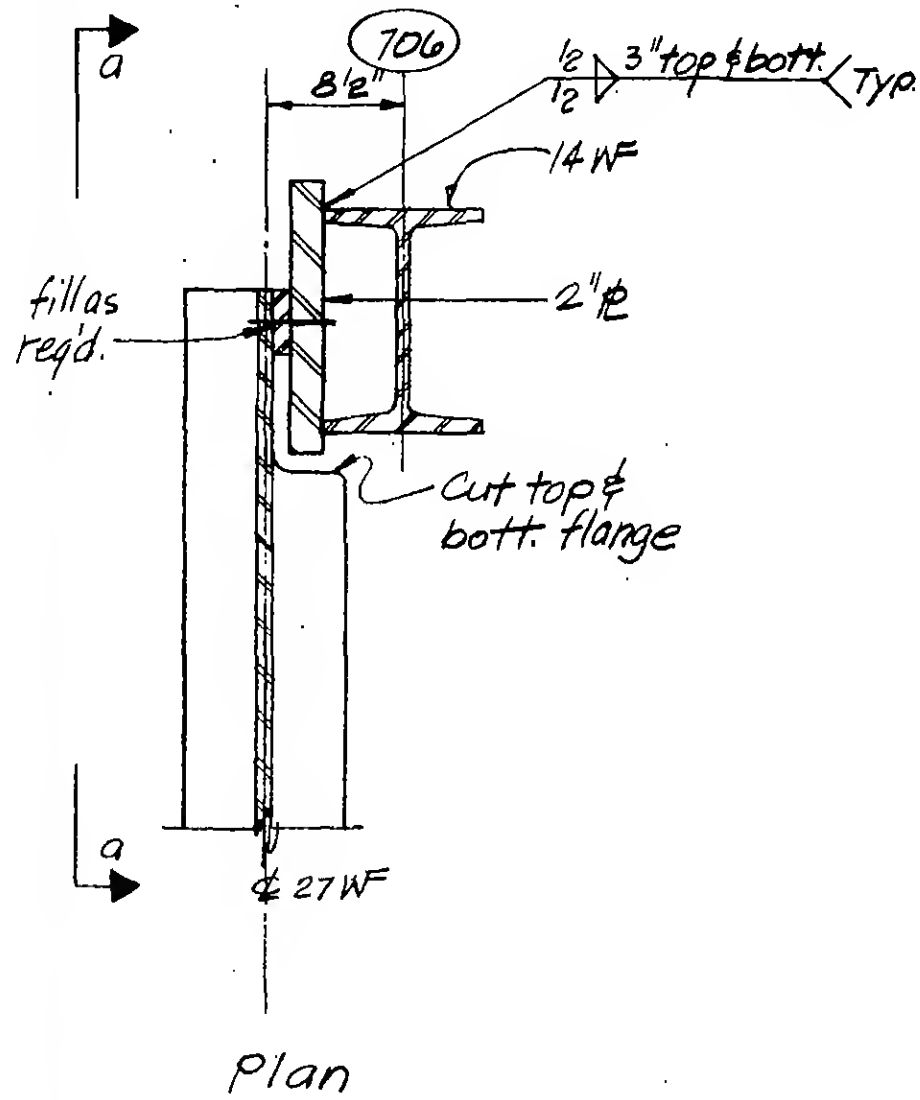
PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS - FL 108

DATE 4-1-70

REVISIONS

5-27-70



DESIGNED L. Quirko

DRAWN P. Orski

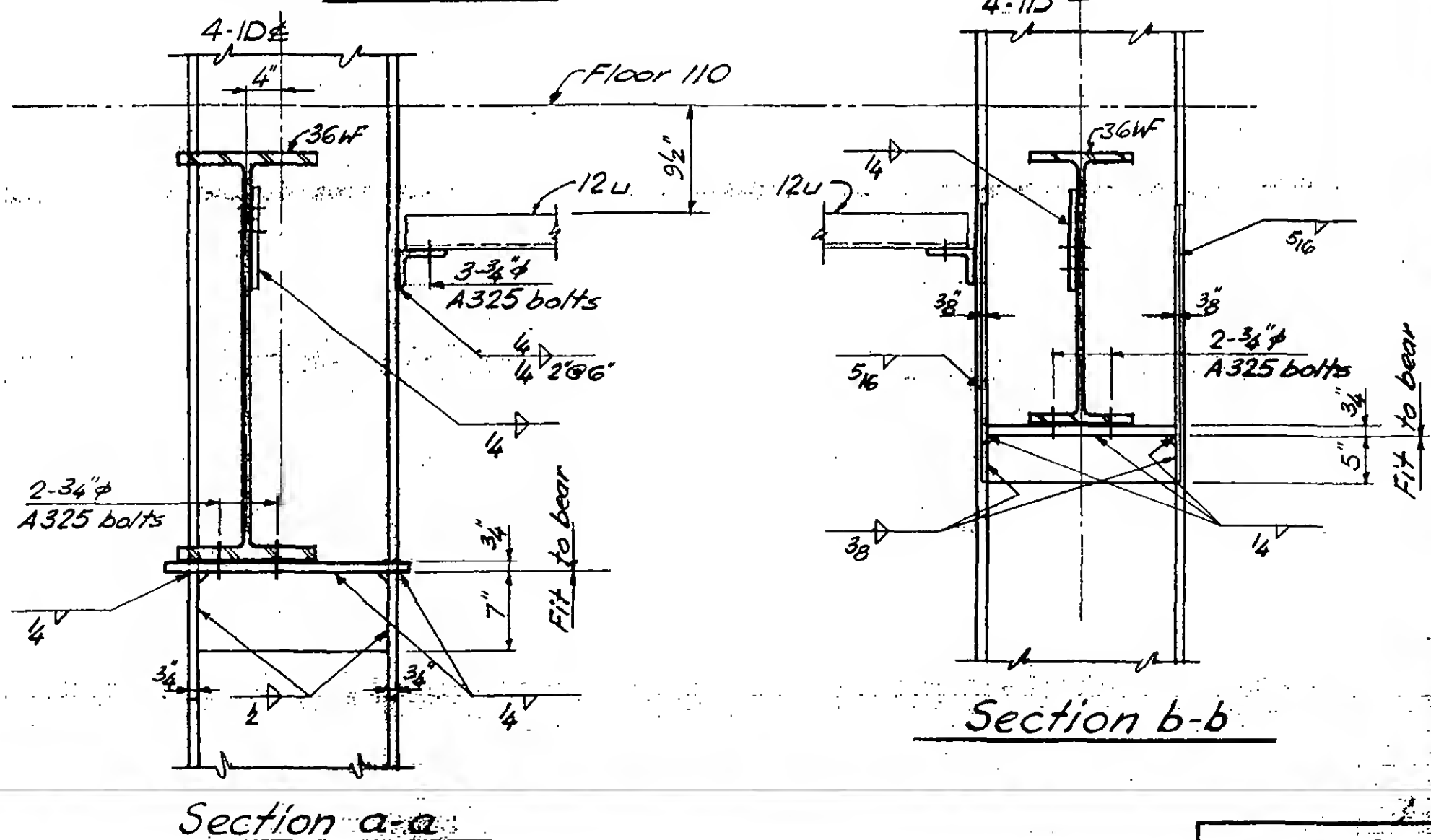
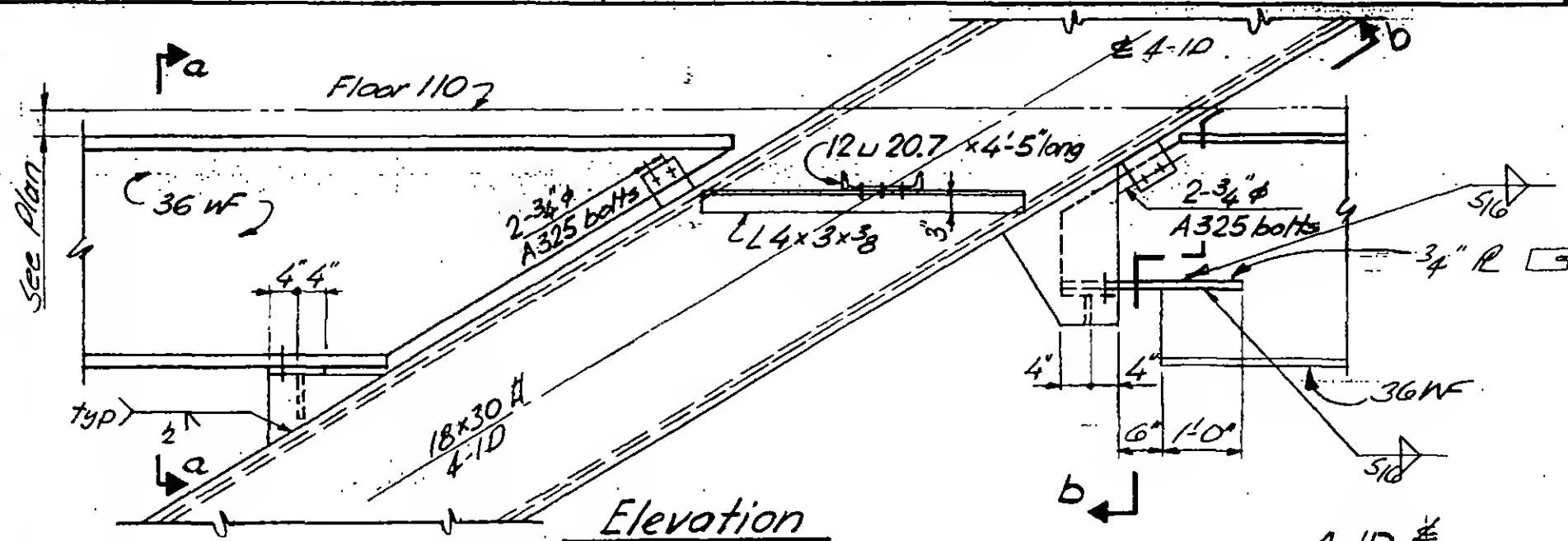
REVIEWED E. Drakos

DETAIL 19-2B

9-AB/9-2.3

REVISIONS

6-15-70



DESIGNED

DRAWN
J. Gracius

REVIEWED
E. Drakos

9-AB19-3

PROJECT

THE WORLD TRADE CENTER

TITLE

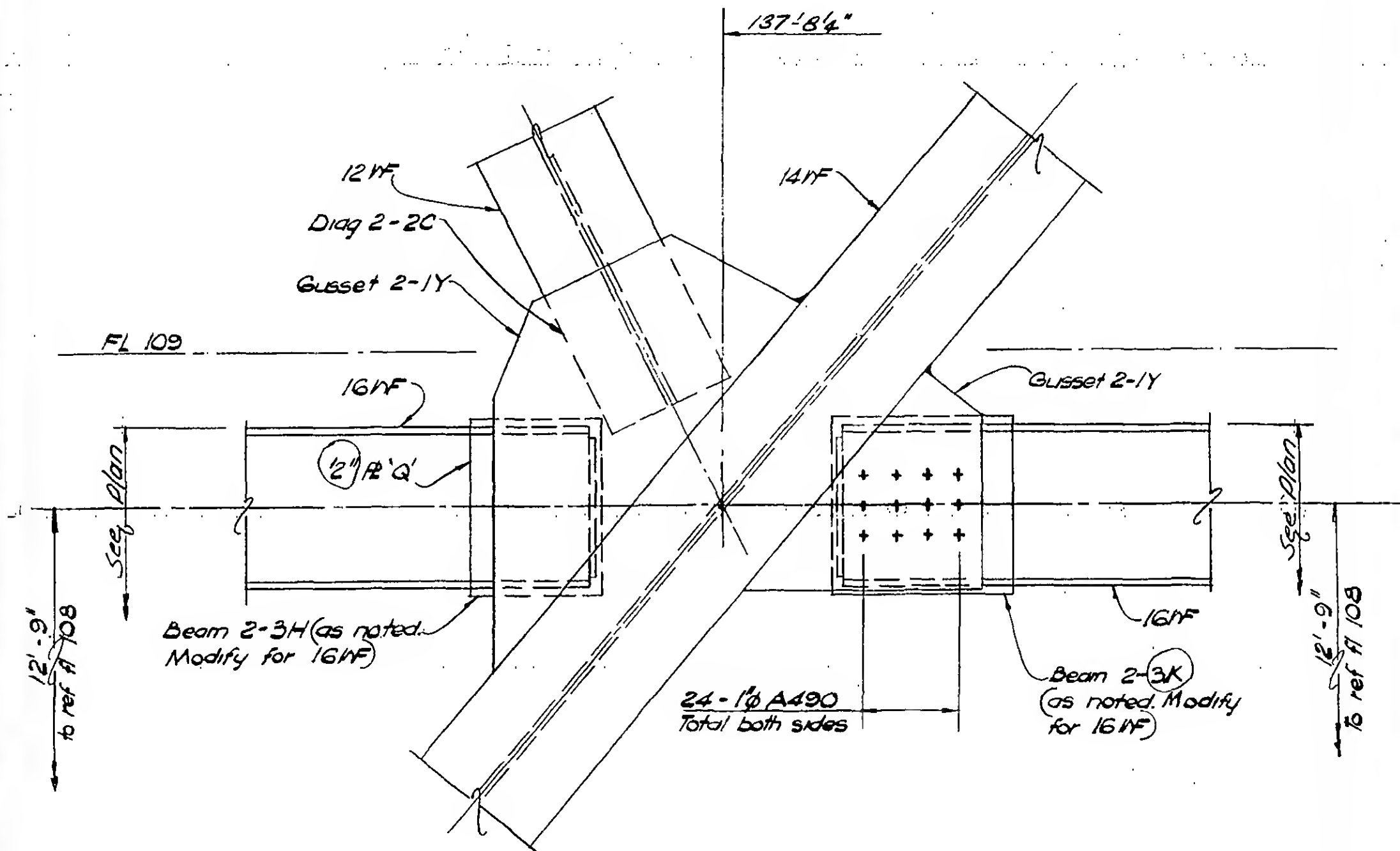
FL 107 - PH CONNECTION DETAILS - FL 109

DATE

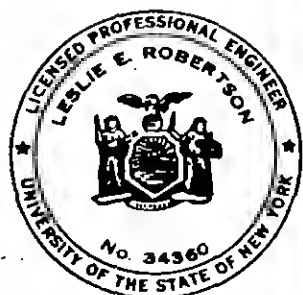
4-1-70

REVISIONS

6-15-70



DETAIL 19-4



DESIGNED

DRAWN

H. Clarke

REVIEWED

E. Drakos

9-AB/9-4

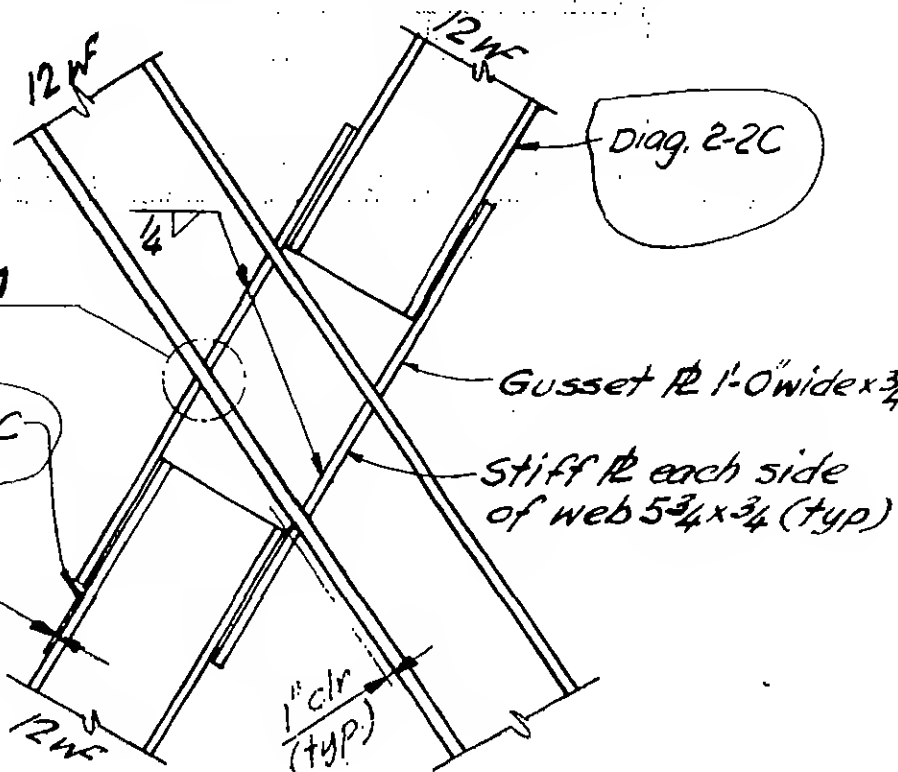
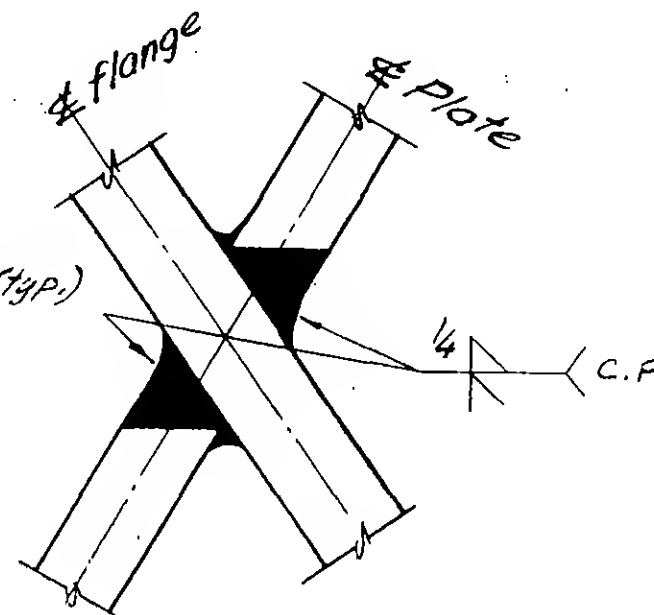
PROJECT THE WORLD TRADE CENTERTITLE FLOOR 107 - PH. CONNECTION DETAILSDATE 4-1-70

REVISIONS

6-15-70

Fl. 108Detail A
(typ.)

Diag. 2-2C

Fill as
req'dElevationDetail "A"DETAIL 19-5

DESIGNED

DRAWN

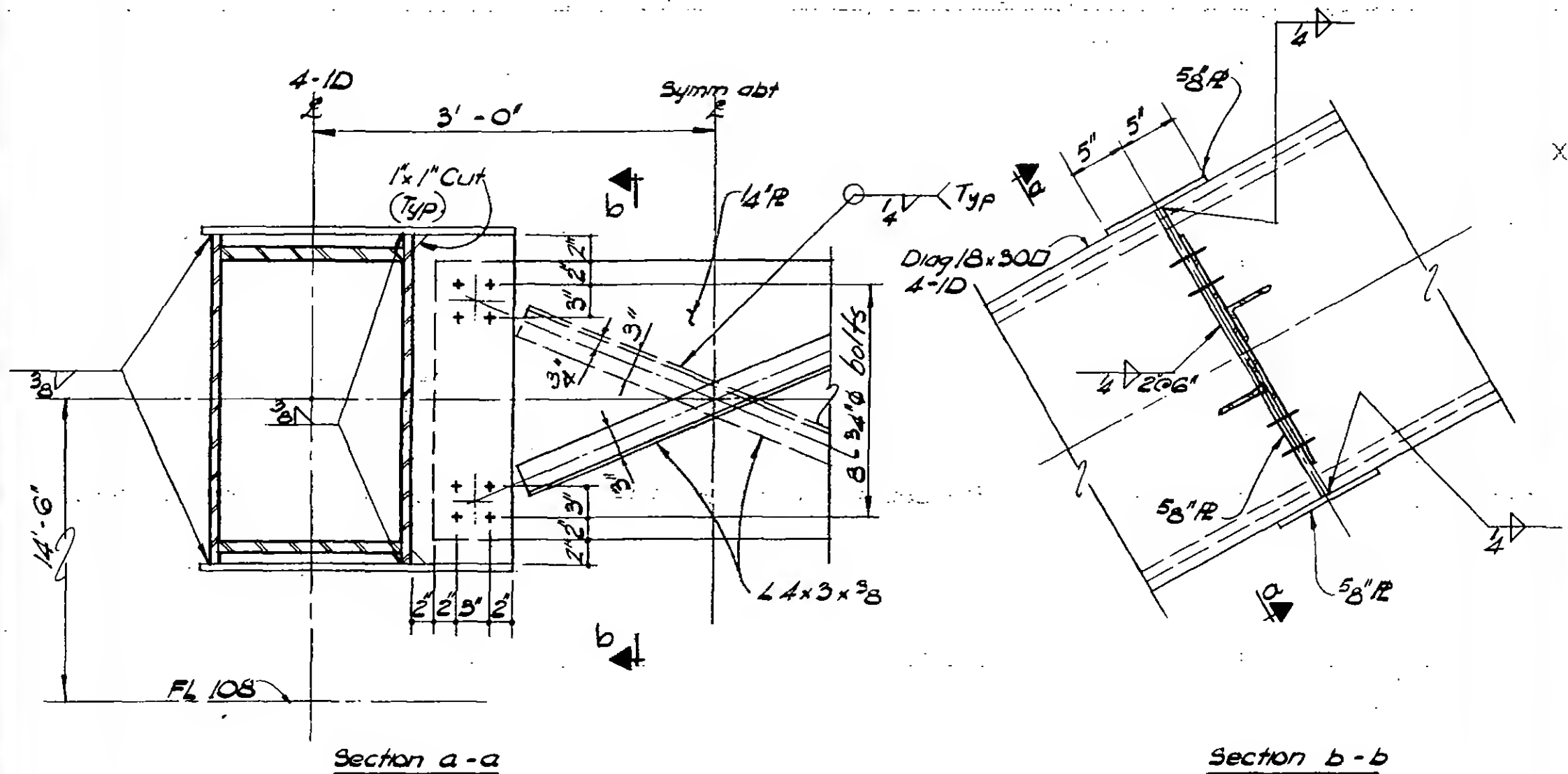
J. Gricius

REVIEWED

E. Draxos

9-AB19-5

REVISIONS



DESIGNED

J. D. Robertson

DRAWN

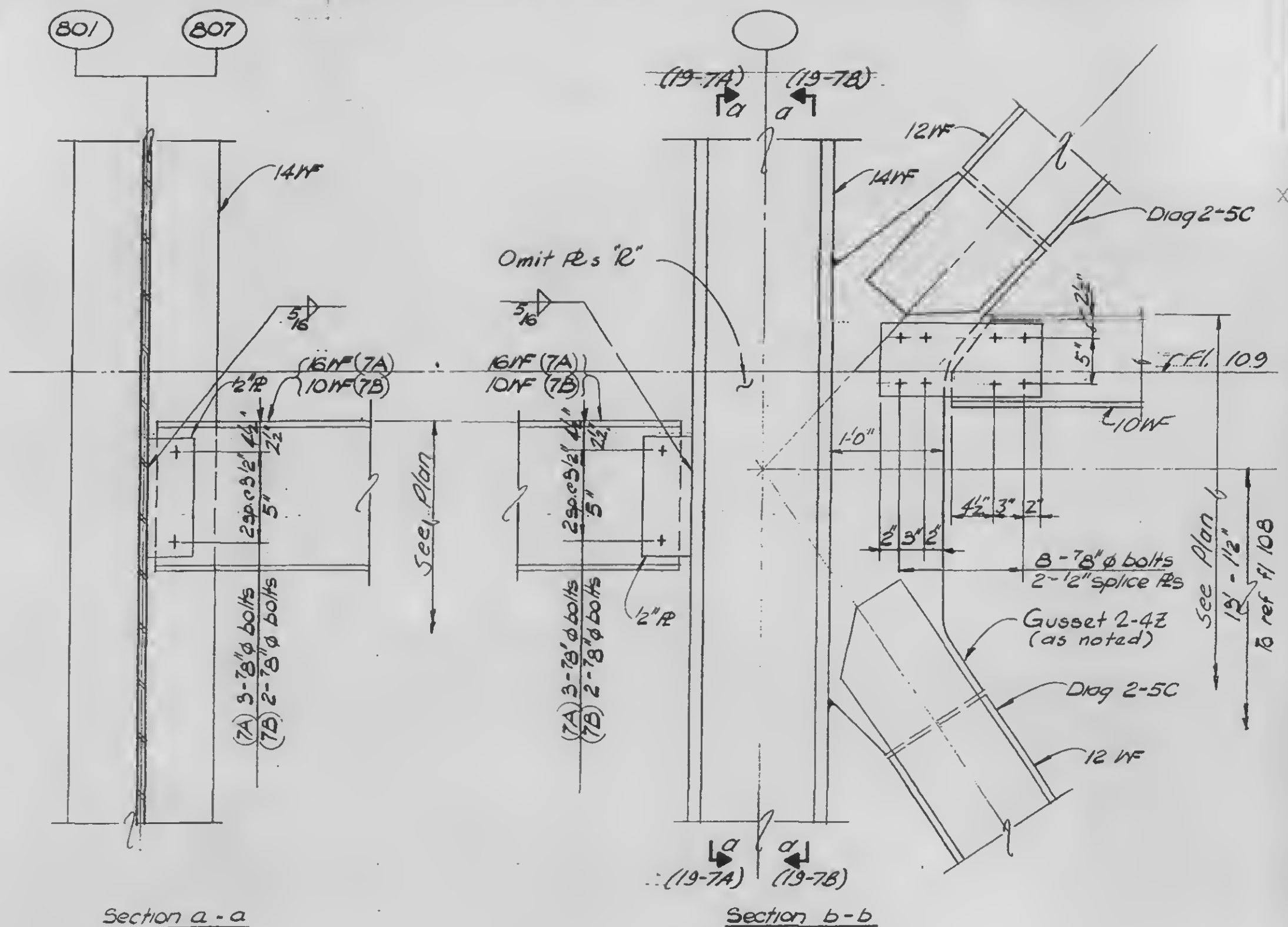
W. Clarke

REVIEWED

E. Drakos

9-AB/9-6

REVISIONS



DESIGNED

DRAWN

H. Clarke

REVIEWED

E. Draxos

DETAIL 19-7A (Col. 801 as shown)
DETAIL 19-7B (Col. 807 as noted)

9-AB/9-7.1

PROJECT

THE WORLD TRADE CENTER

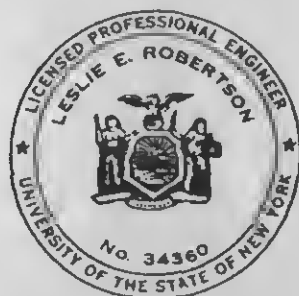
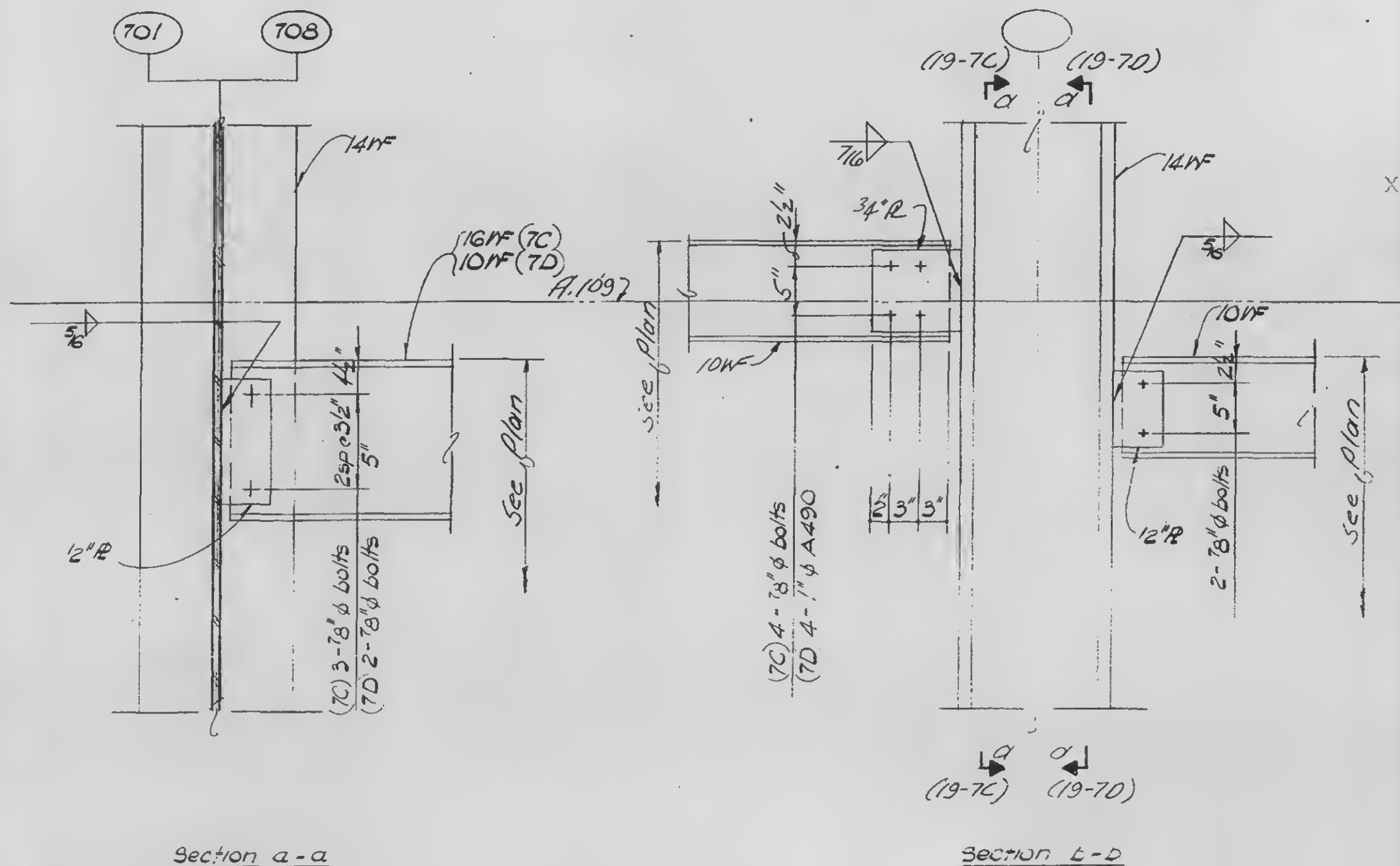
TITLE

FL 107 - PH CONNECTION DETAILS - FL 109

DATE

6 - 15 - 70

REVISIONS



DESIGNED

DRAWN

W. Clarke

REVIEWED

E. Drakos

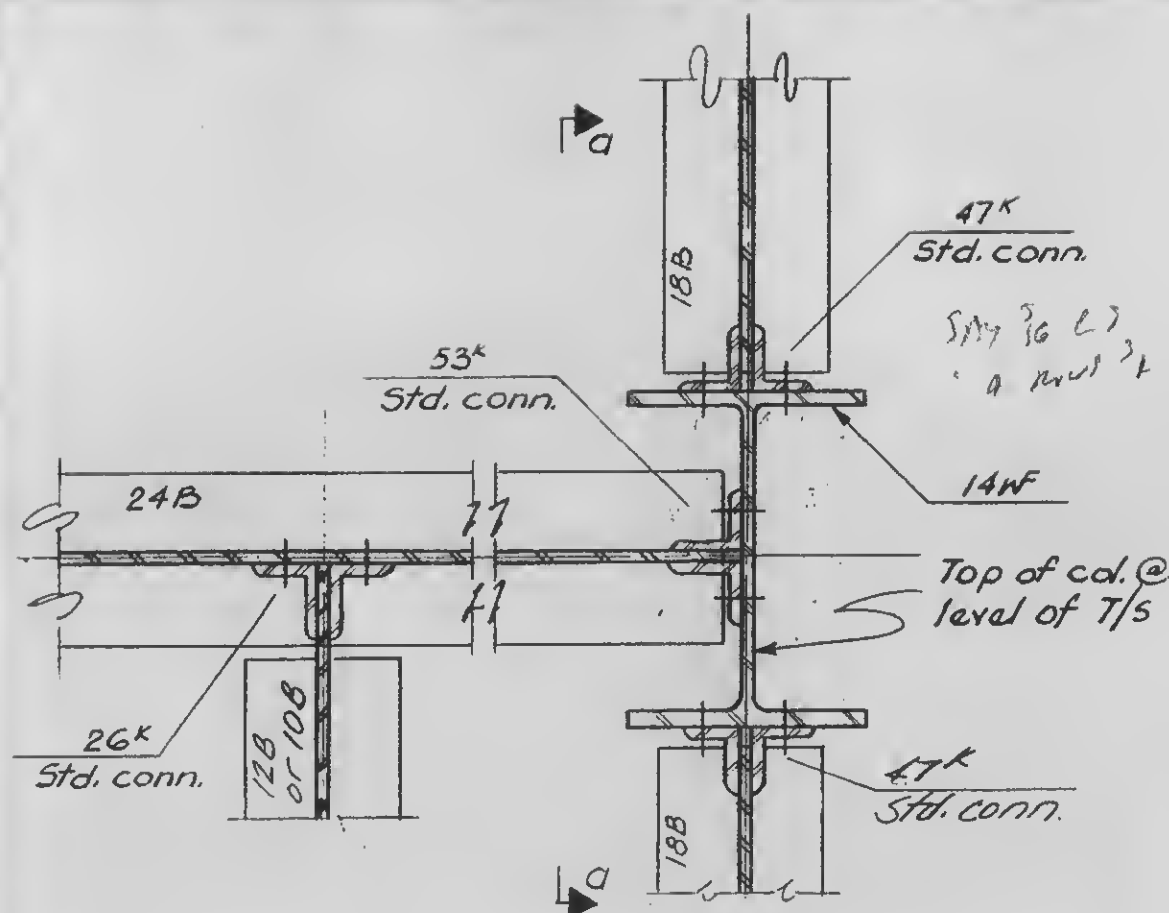
DETAIL 19-7C Col. 701 as shown

DETAIL 19-7D Col. 708 as noted

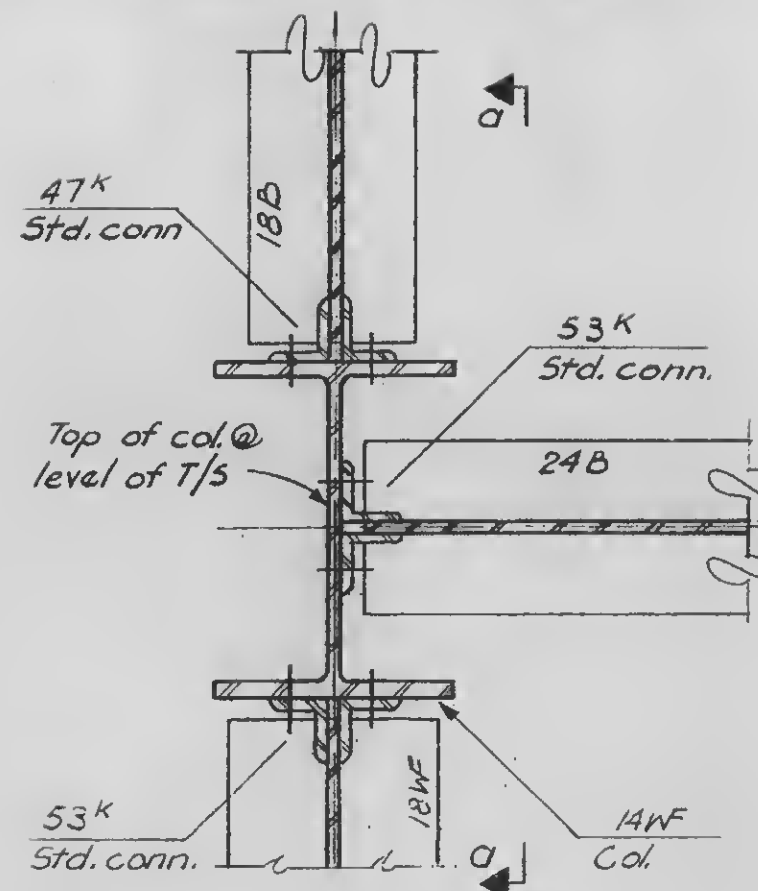
9-AB.19-7.2

REVISIONS

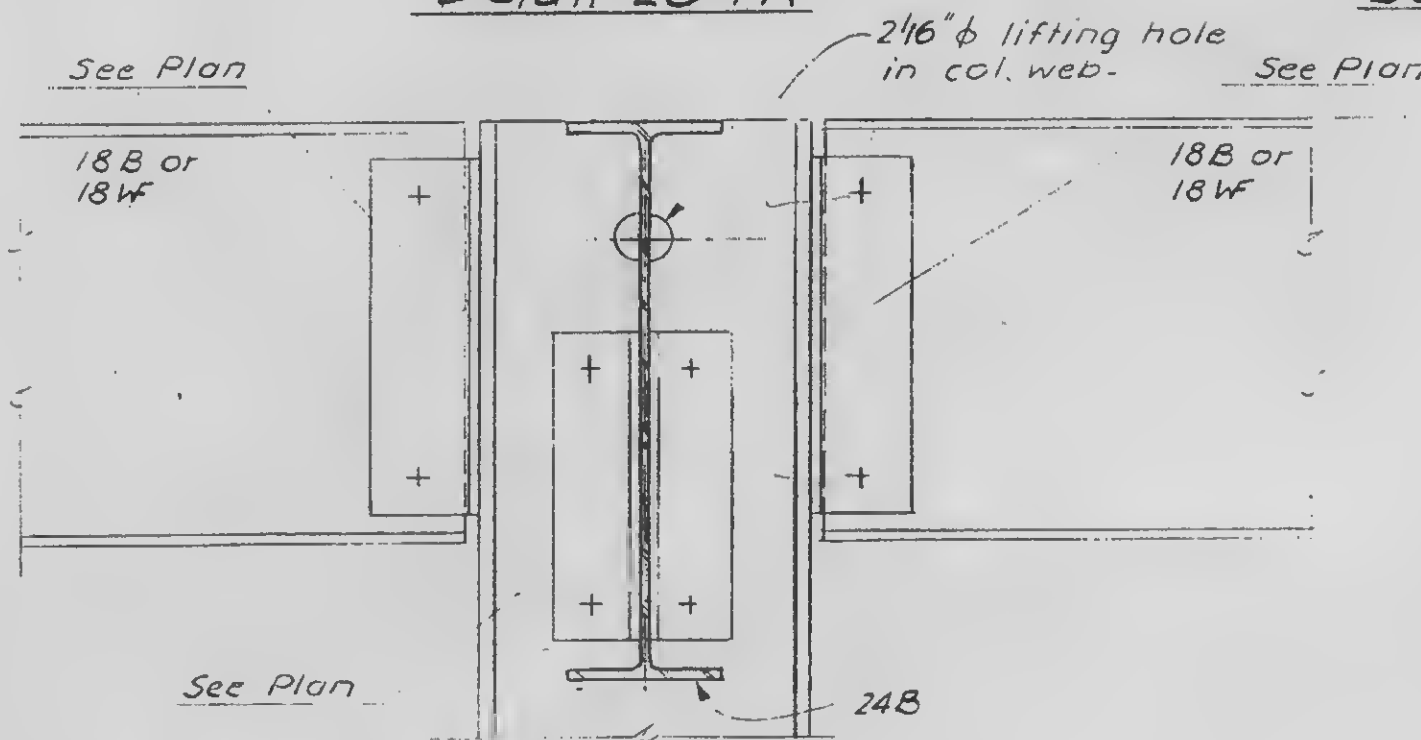
6-18-70
VOID
9-25-70
6-18-70



Detail 20-1A



Detail 20-1B



Section a-a

See Plan
Refer to Ref floor 110



DESIGNED

DRAWN
D. Huggins

REVIEWED

9-AB 20-1.1

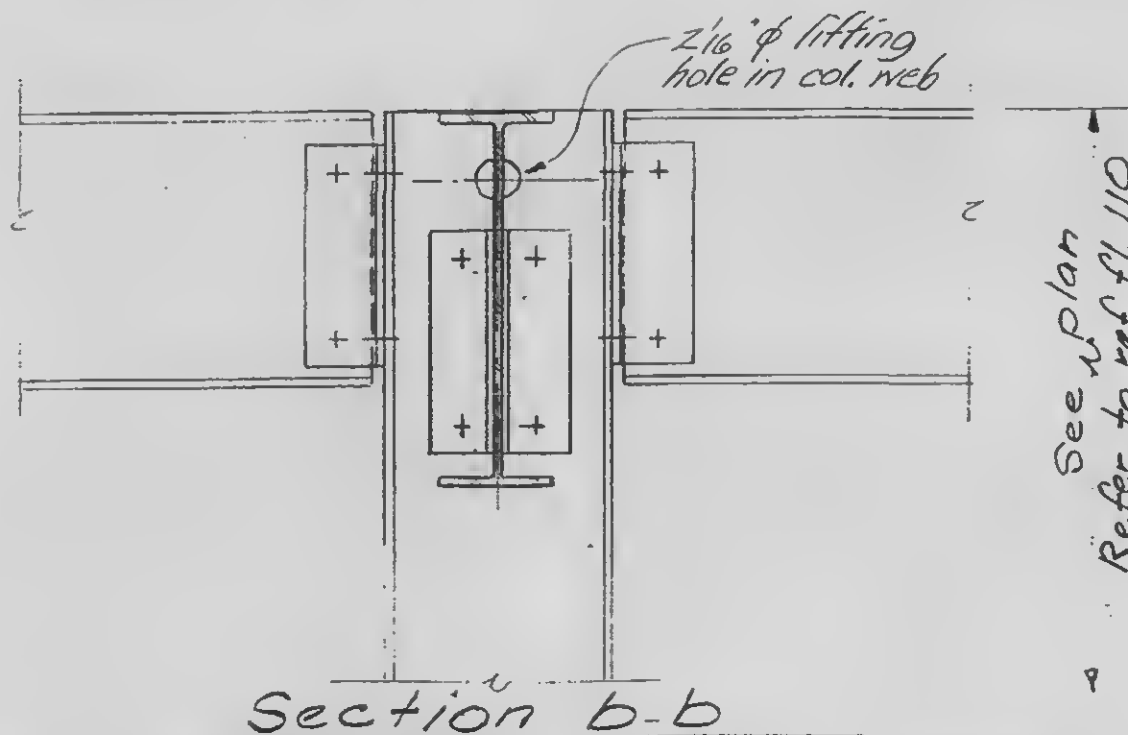
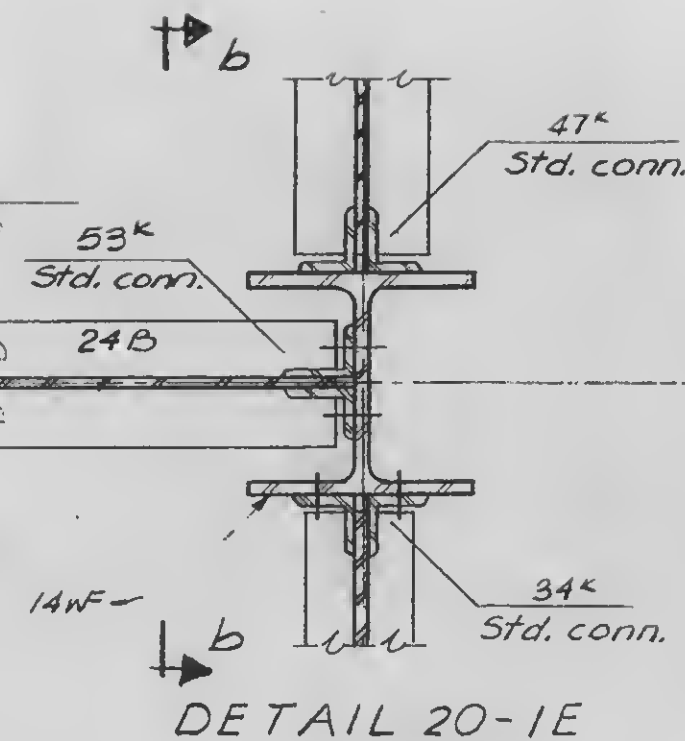
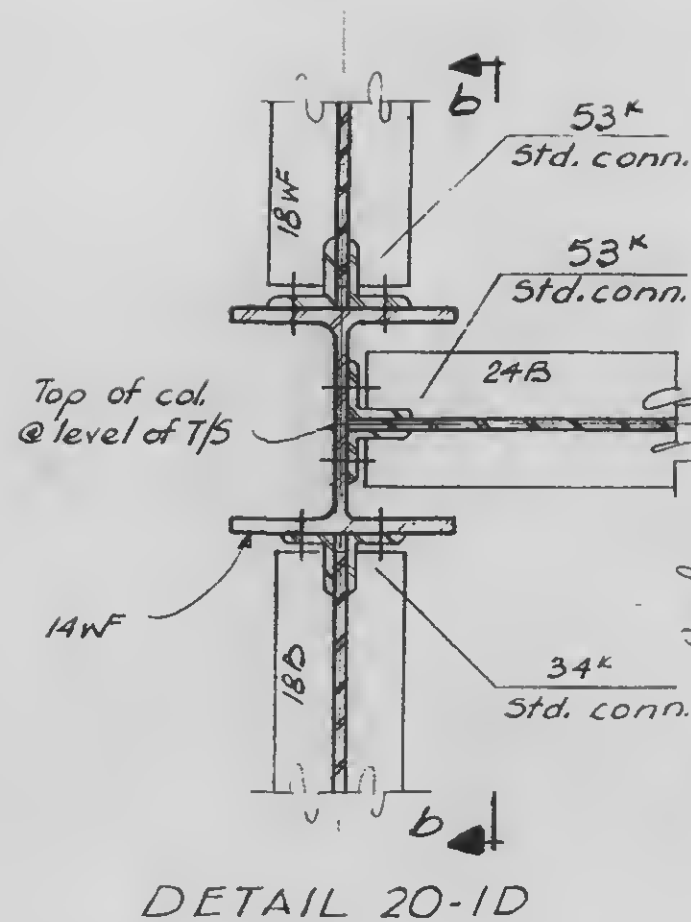
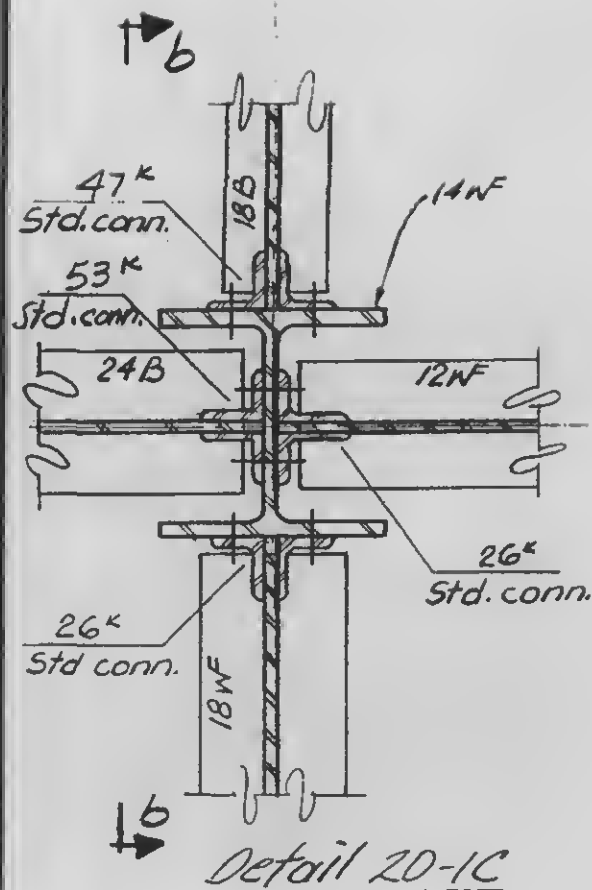
PROJECT THE WORLD TRADE CENTER

TITLE FL. 107-PH, CONNECTION DETAIL - PH ROOF

DATE 4-1-70

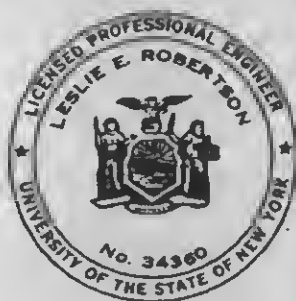
REVISIONS

VOID 6-18-70
~~9-25-70~~
 6-18-70



2 1/16" ϕ lifting
 hole in col. web

See plan
 Refer to ref. fl. 110



DESIGNED

DRAWN

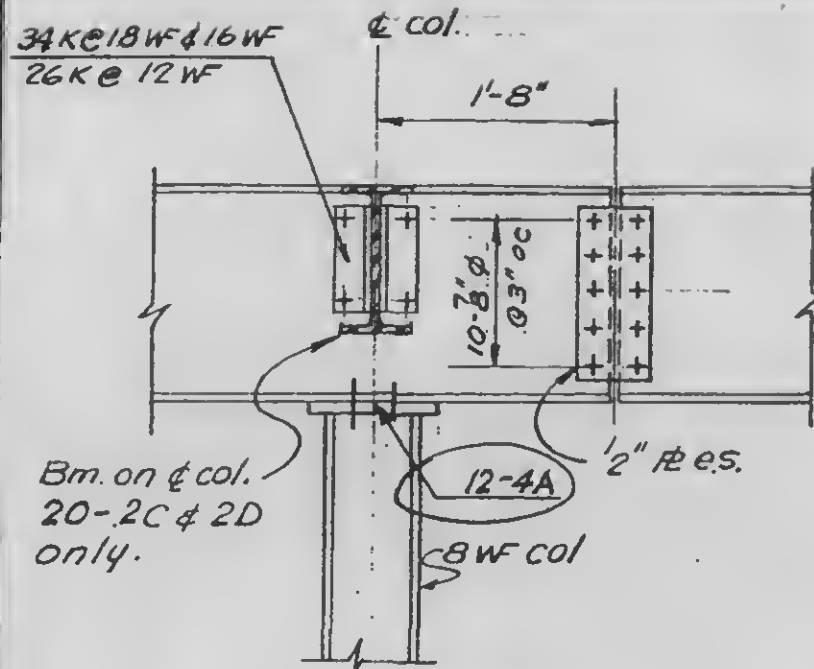
D. Huggins

REVIEWED

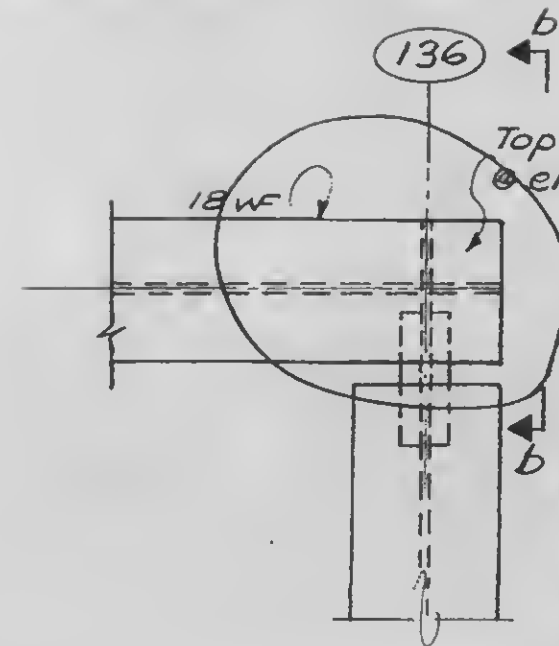
9-AB 20-1.2.

REVISIONS

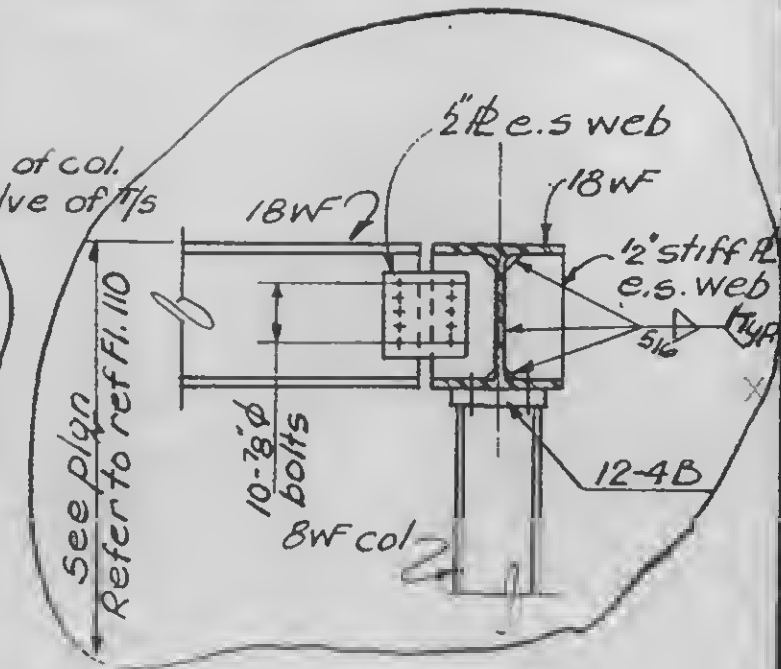
6/18/70



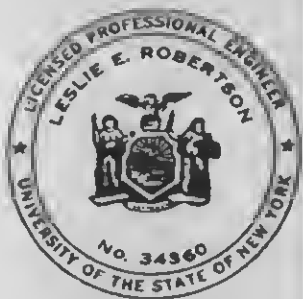
Detail 20-2A
Detail 20-2C & 2D as noted



Detail 20-2B



Section b-b



DESIGNED

DRAWN
V. H. A.

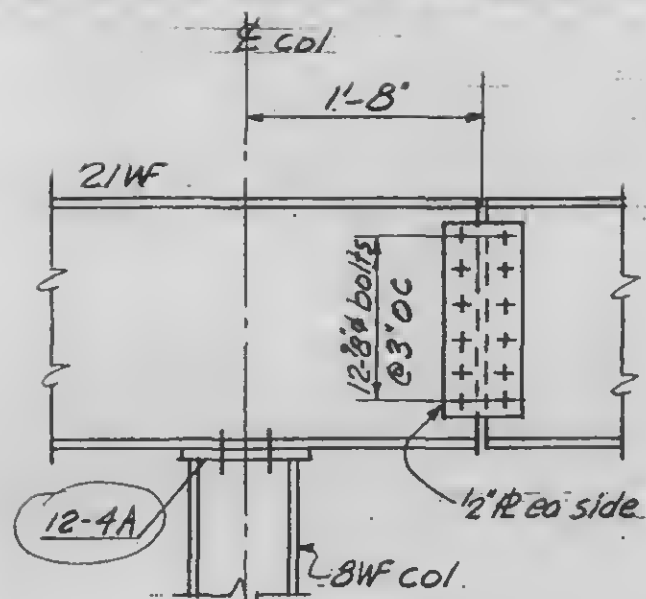
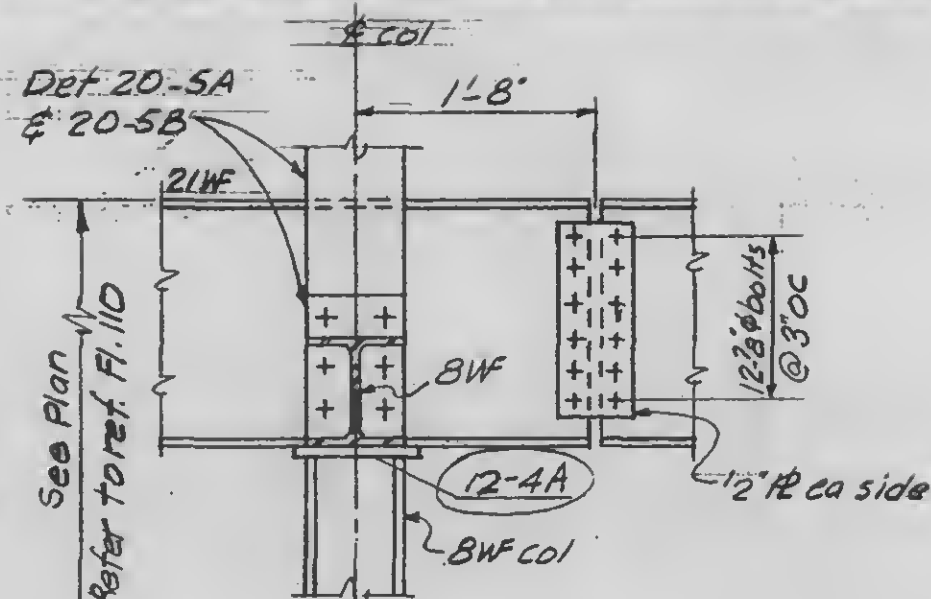
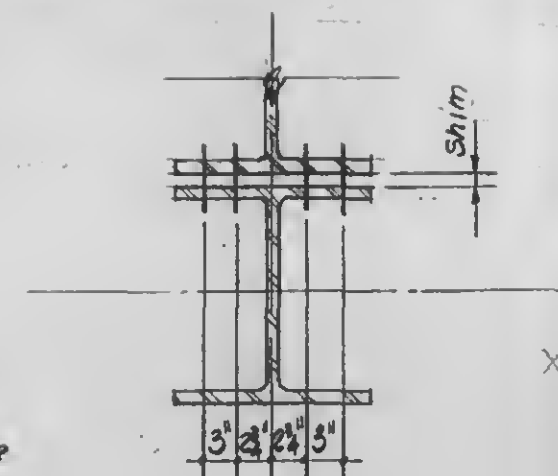
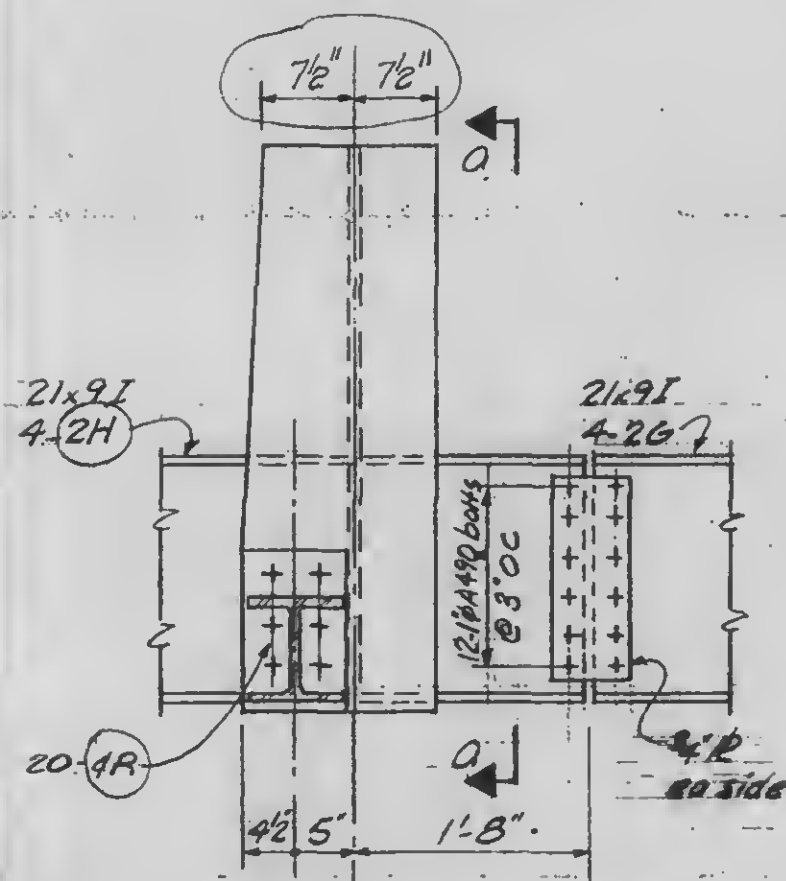
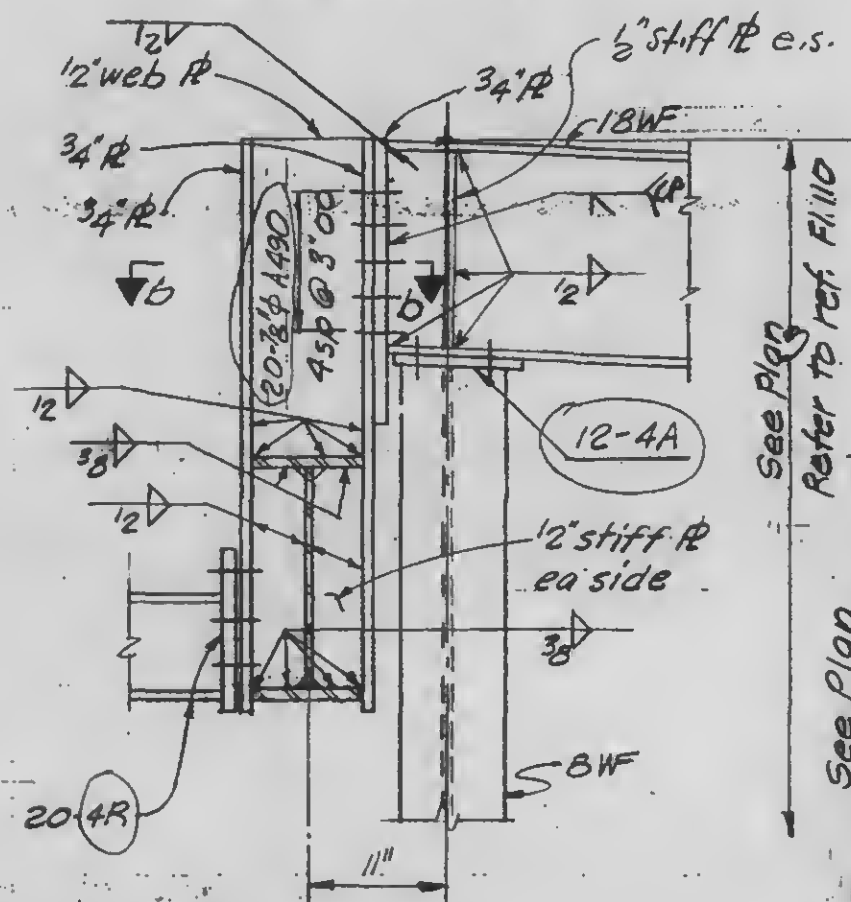
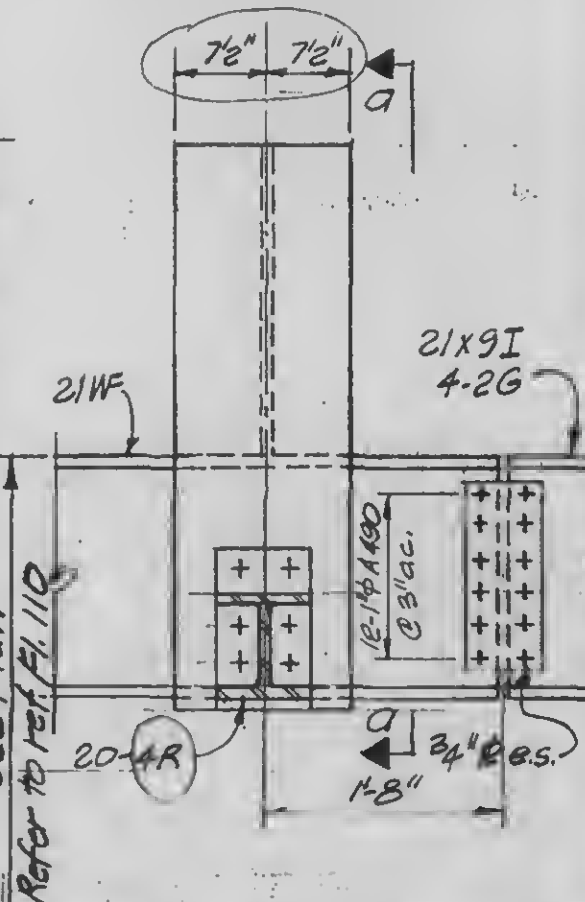
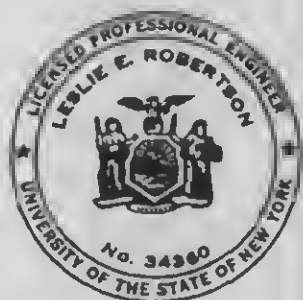
REVIEWED

9-AB20-2

PROJECT THE WORLD TRADE CENTERTITLE FL 107-PH CONNECTION DETAIL-PH ROOFDATE 4-1-70

REVISIONS

6/18/70

Detail 20.3ADetail 20.3BSection b-bDetail 20-C
opp. col. 215Section a-aDetail 20-C
Typical

DESIGNED

DRAWN

A.E.

REVIEWED

9-AB20-3.1

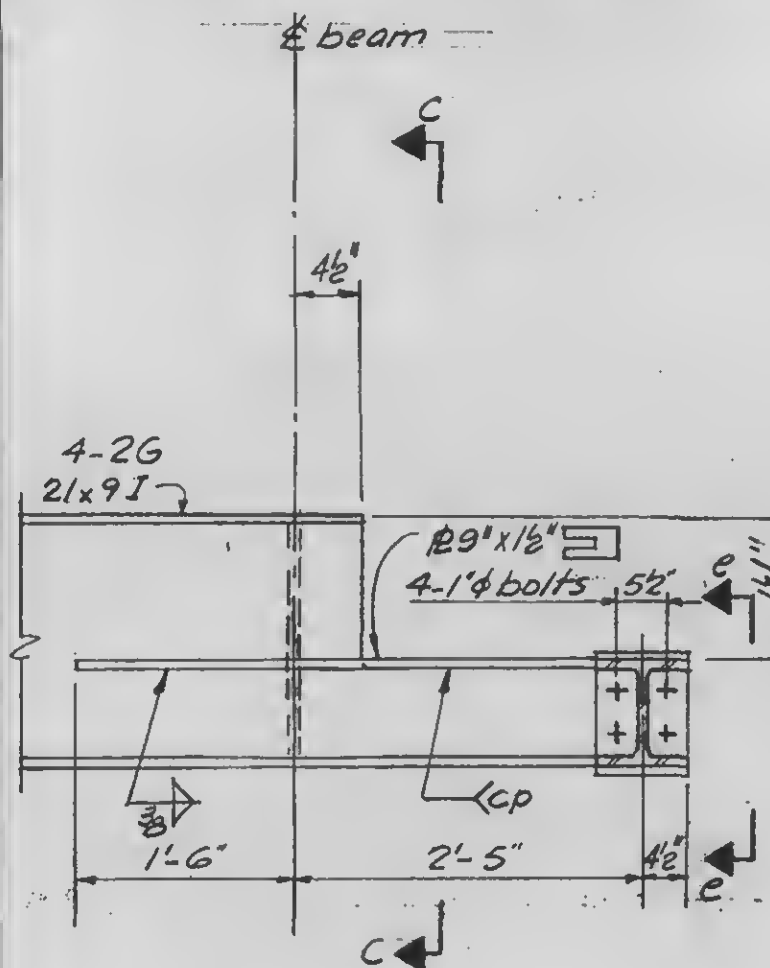
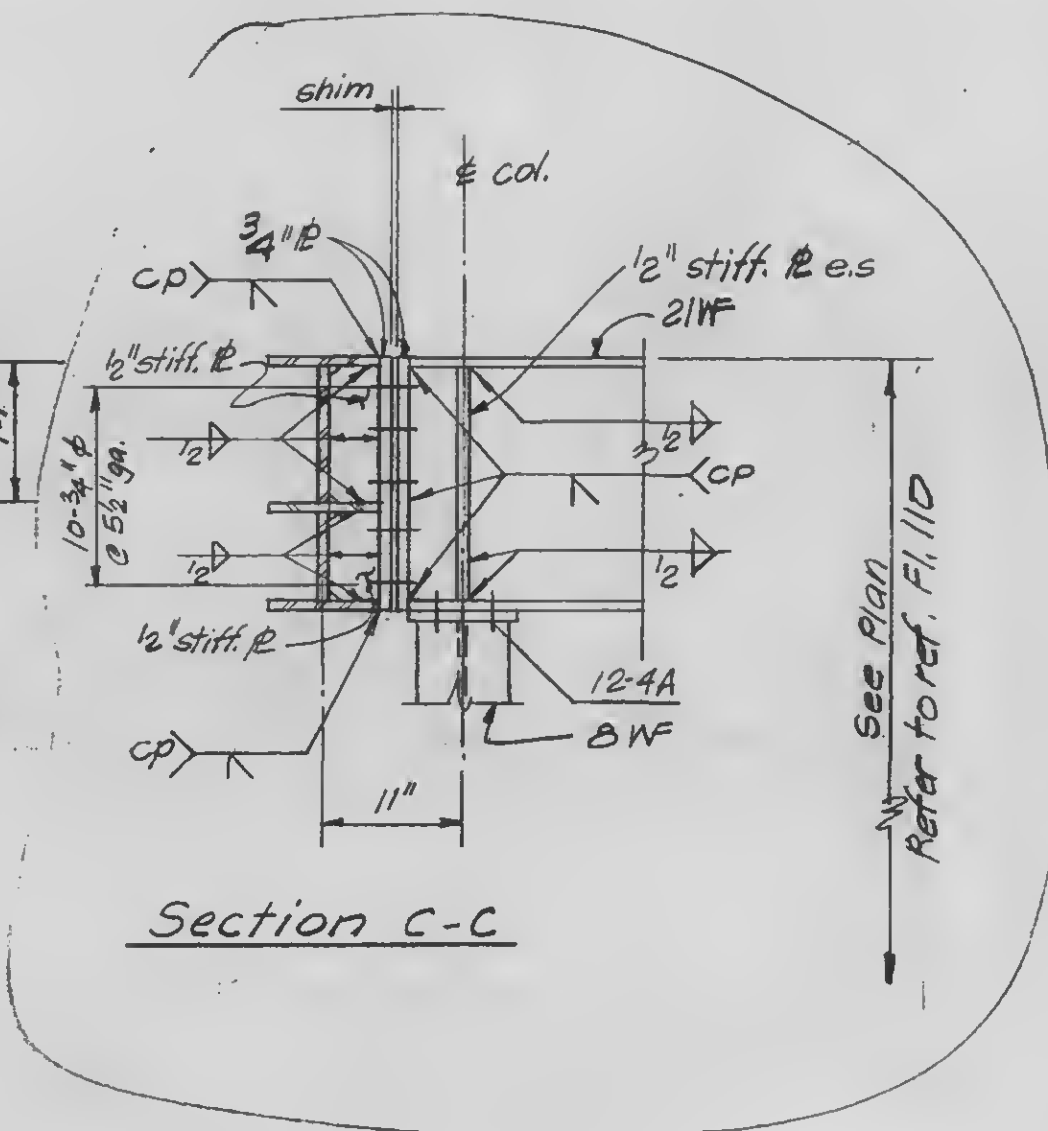
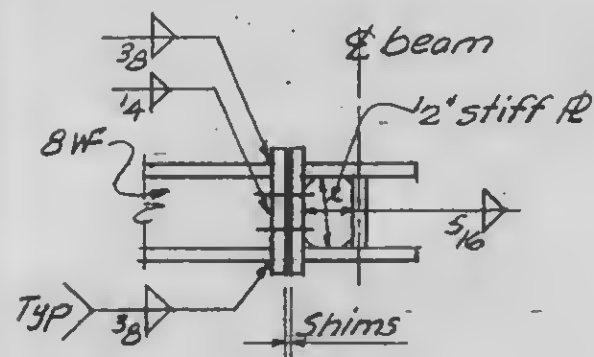
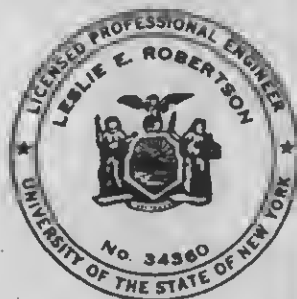
PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS-PH ROOF

DATE 4-1-70

REVISIONS

6/18/70

Detail 203DSection C-CSection e-e

DESIGNED

DRAWN
A.F.

REVIEWED

9-AB20-3.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

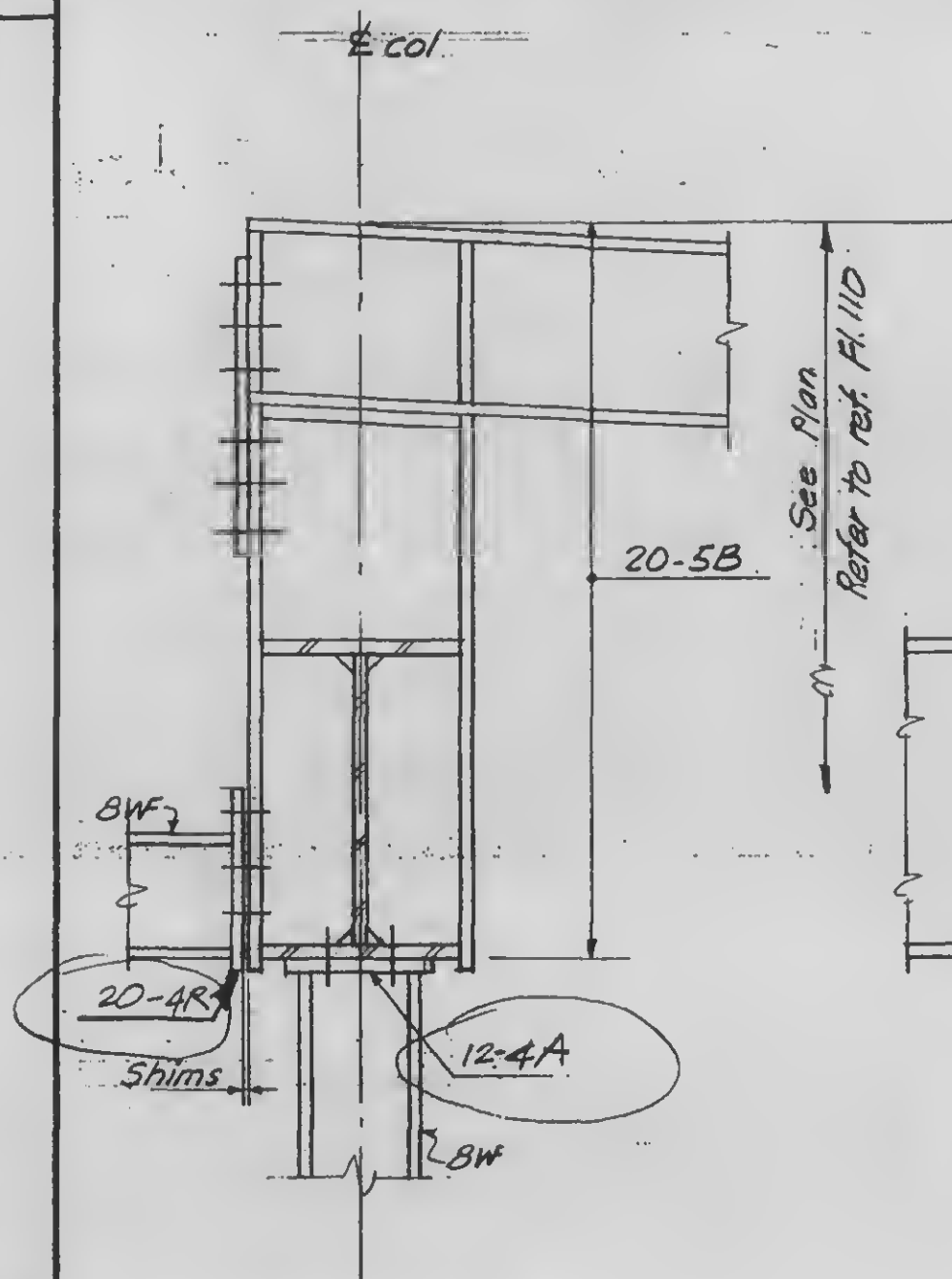
PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS-PH ROOF

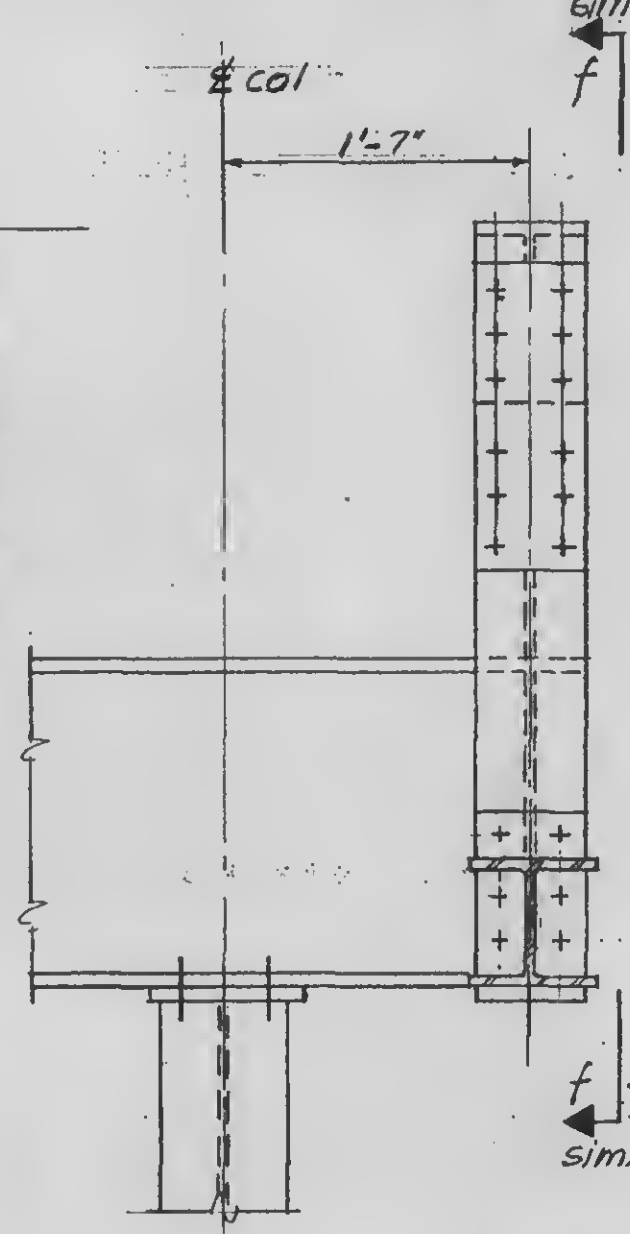
DATE 4-1-70

REVISIONS

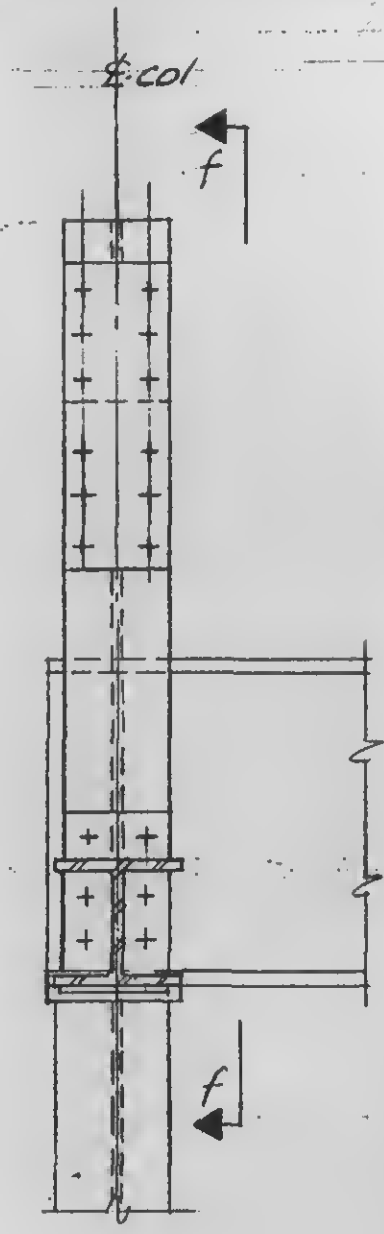
6/18/70



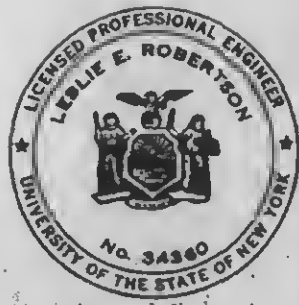
Section f-f



Detail 20-3F



Detail 20-3E



DESIGNED

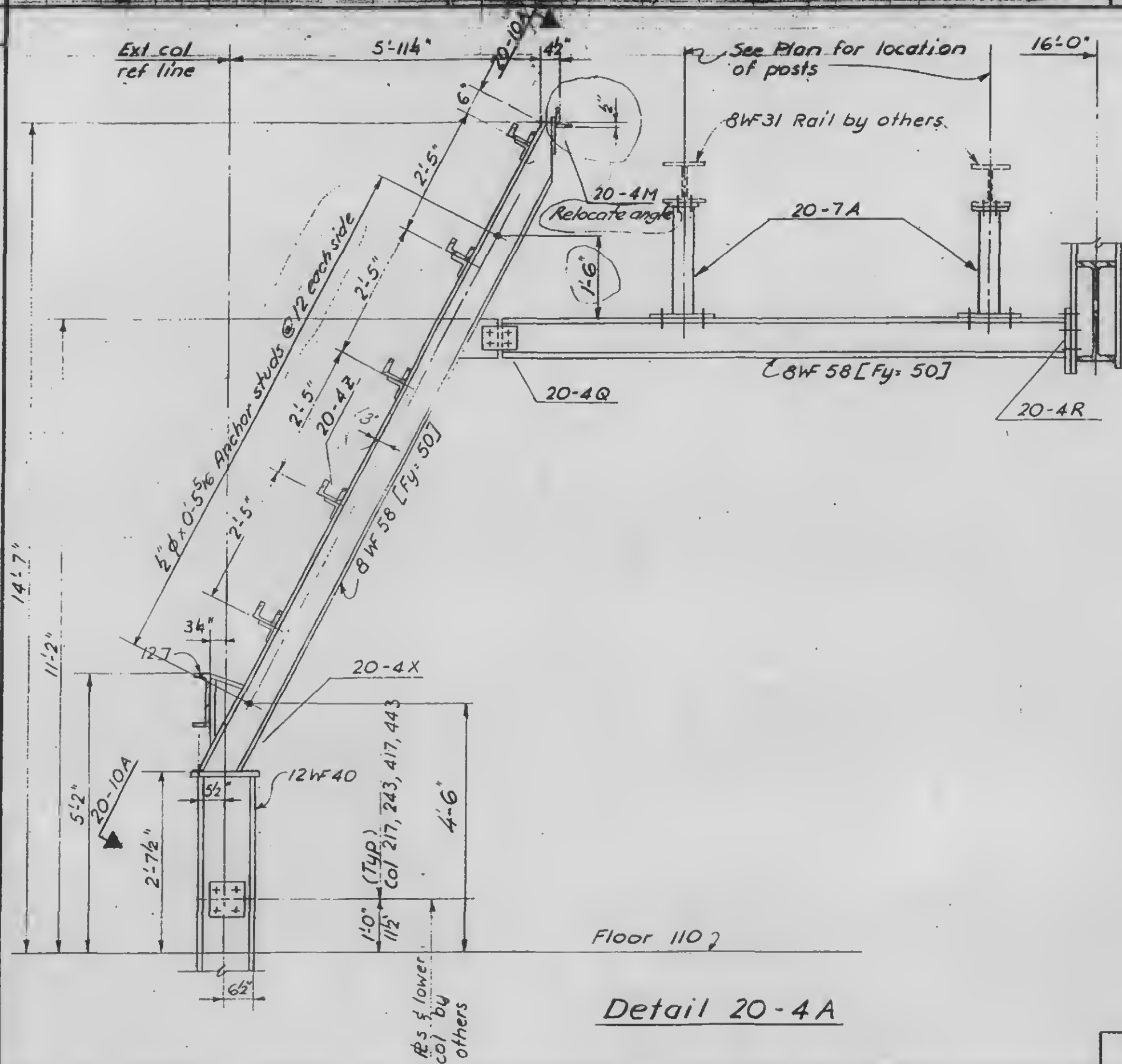
DRAWN

A.F.

REVIEWED

9-AB20-3.3

8-20-70
10-4-71



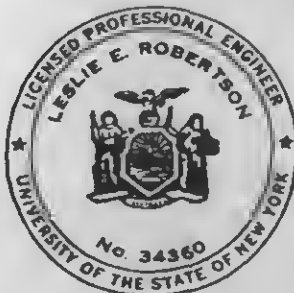
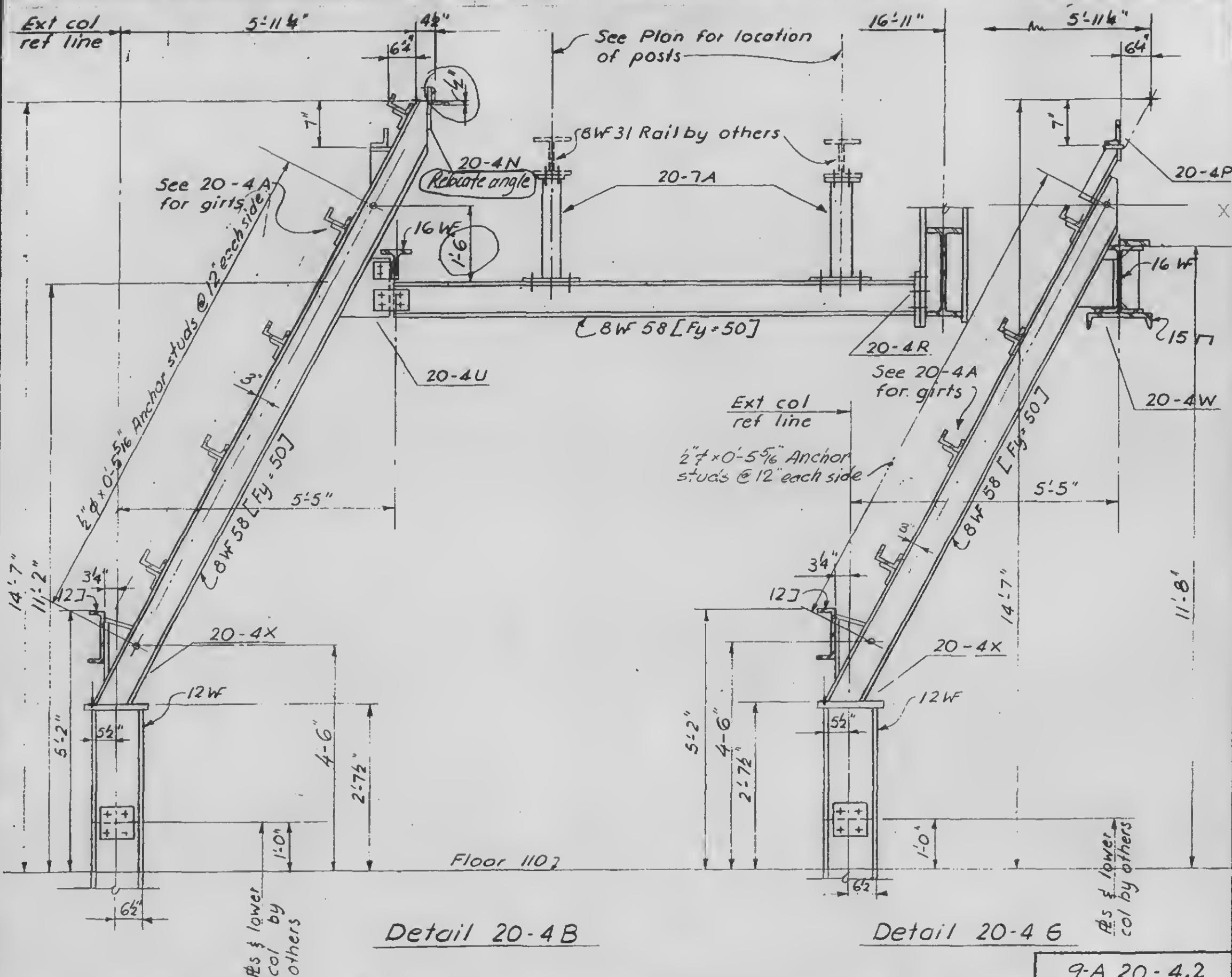
REVIEWED

Detail 20-4A

9-A, 20-4.1

REVISIONS

8-20-70
 10-4-71



DESIGNED

DRAWN
 F. Smith

REVIEWED

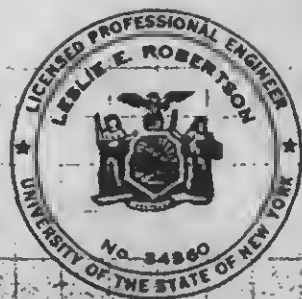
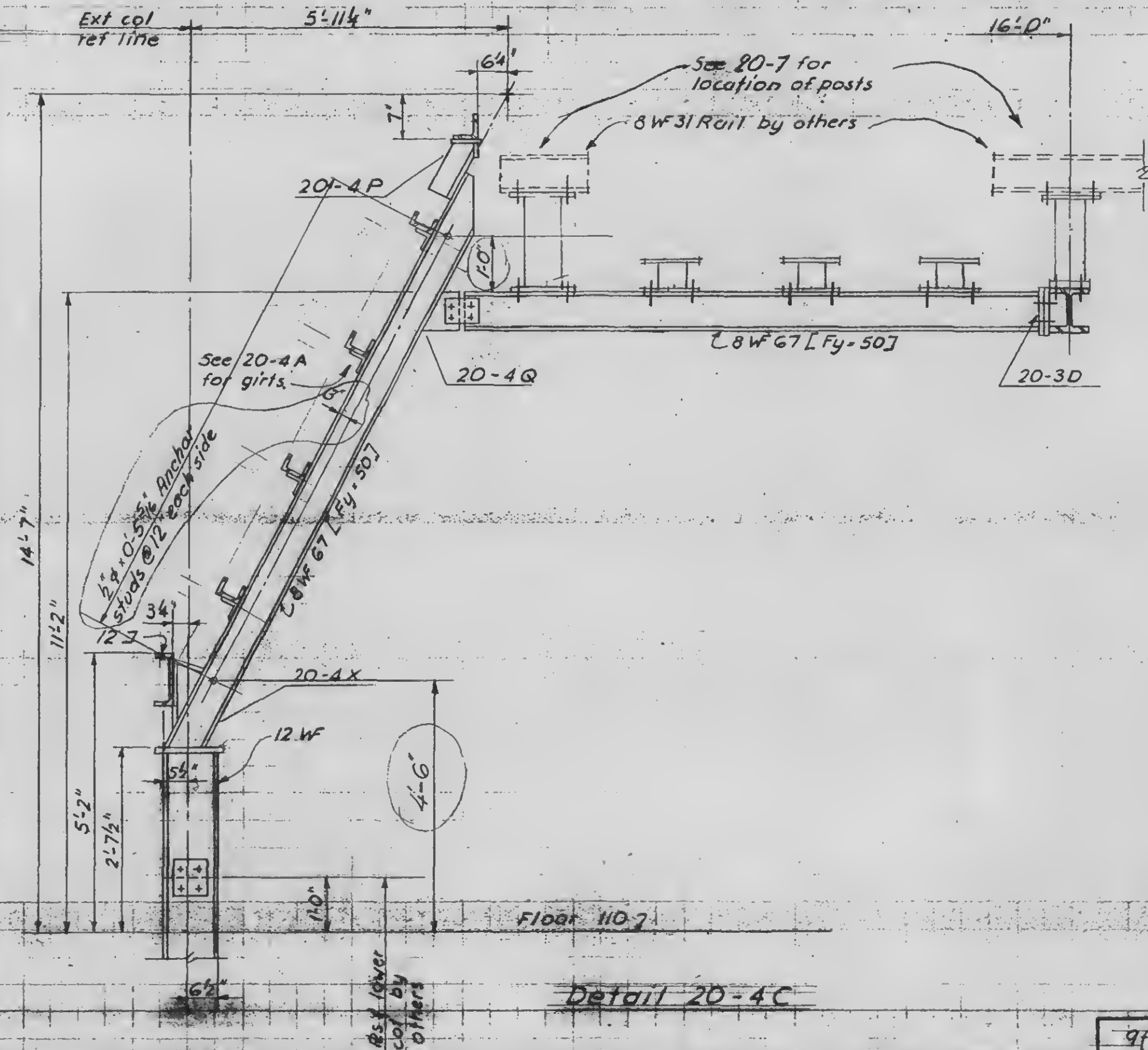
9-A 20-4.2

PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS - PH ROOF

DATE 4-1-70

REVISIONS

8-20-70
10-4-71

DESIGNED

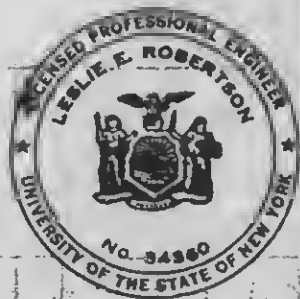
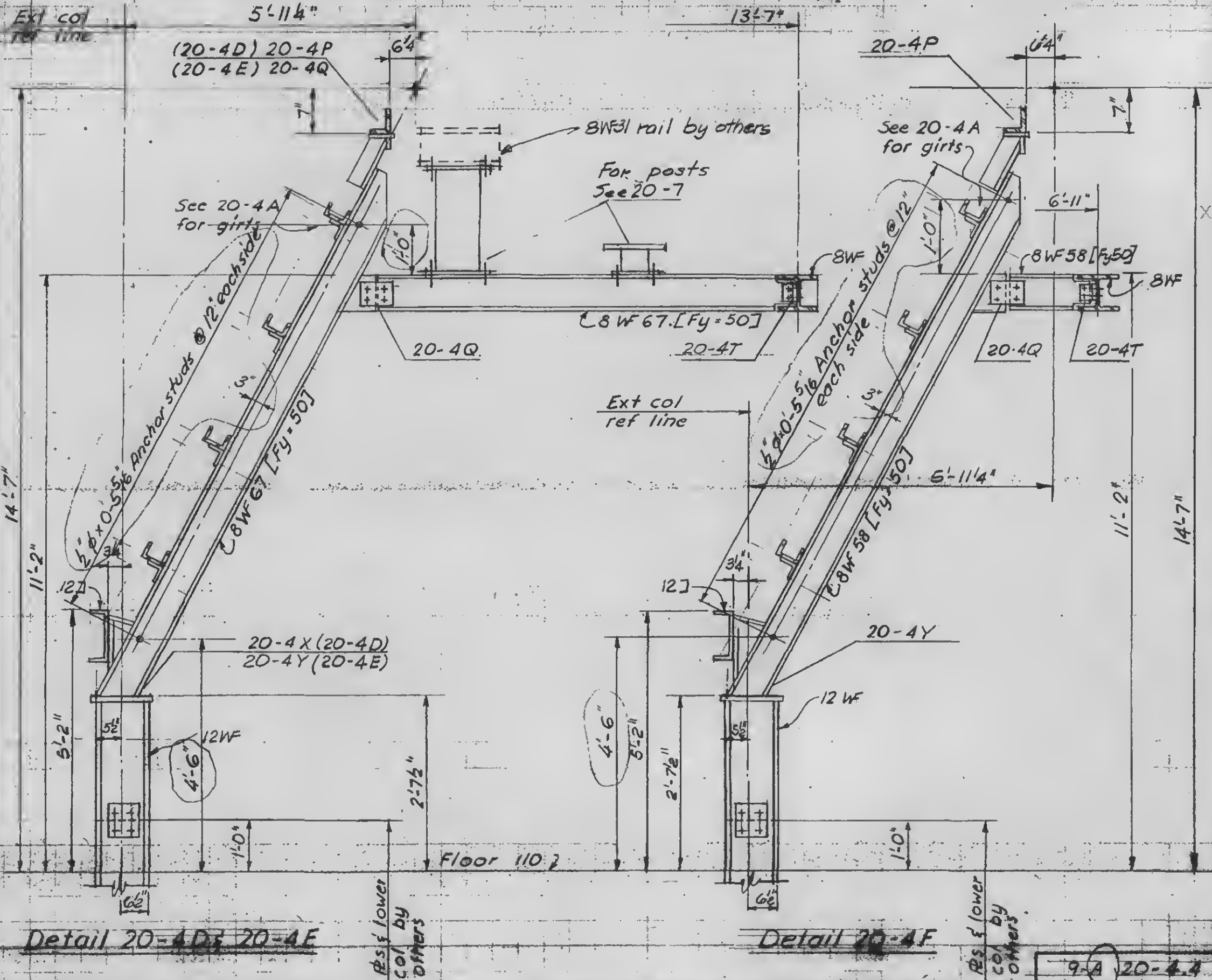
DRAWN

REVIEWED

9-A 20-4.3

PROJECT THE WORLD TRADE CENTERTITLE FL. 107-PH, CONNECTION DETAILS - PH ROOFDATE 4-1-70

REVISIONS

8-20-70
10-4-71

DESIGNED

DRAWN B. Smith

Detail 20-4D & 20-4E

Detail 20-4F

9-A 20-4.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

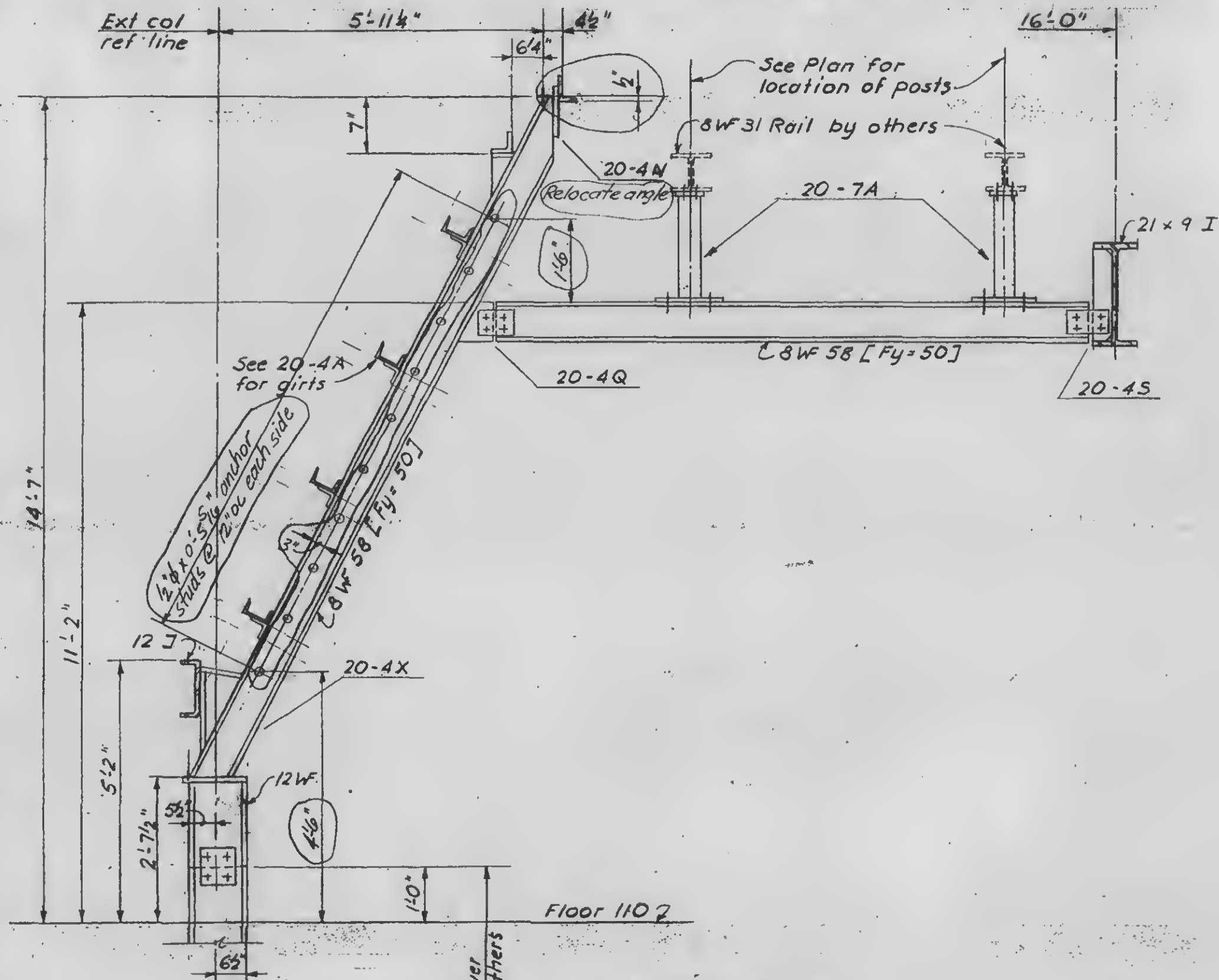
FL 107 - PH, CONNECTION DETAILS - PH ROOF

DATE

8-20-70

REVISIONS

10/4/71



DESIGNED

DRAWN
P. Smith

REVIEWED

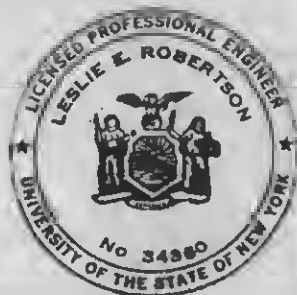
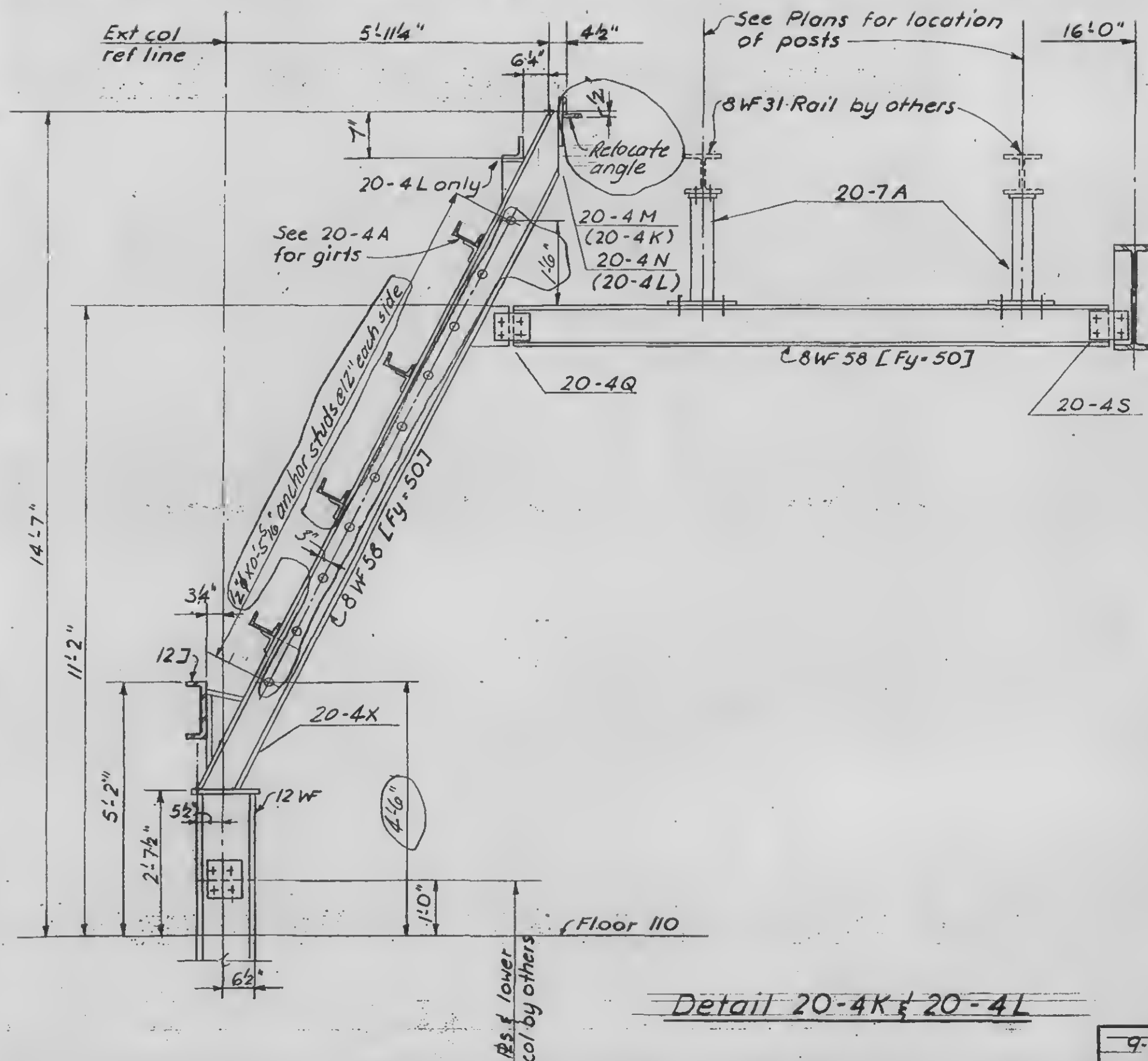
Detail 20-4 J

9-A 20-4.5

PROJECT THE WORLD TRADE CENTERTITLE FL 107-PH, CONNECTION DETAILS - PH ROOFDATE 8-20-70

REVISIONS

10/4/71



DESIGNED

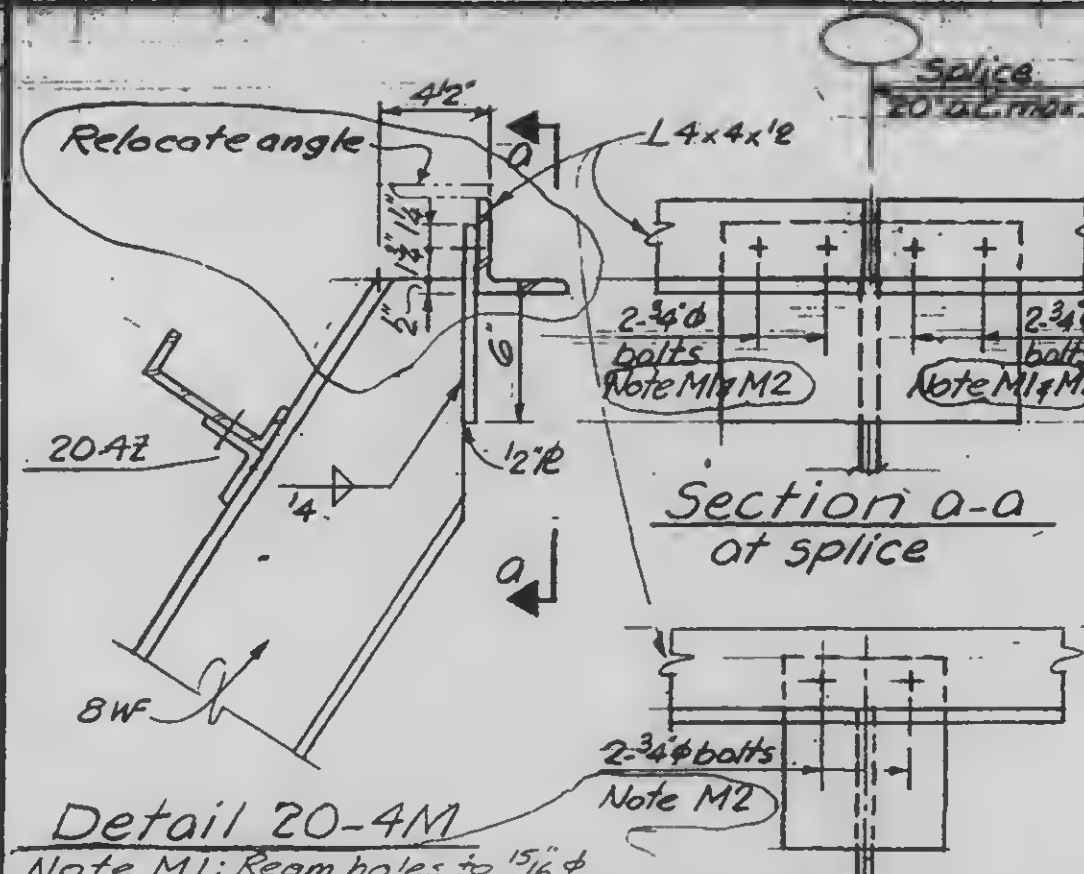
DRAWN

F. Smith

REVIEWED

REVISIONS

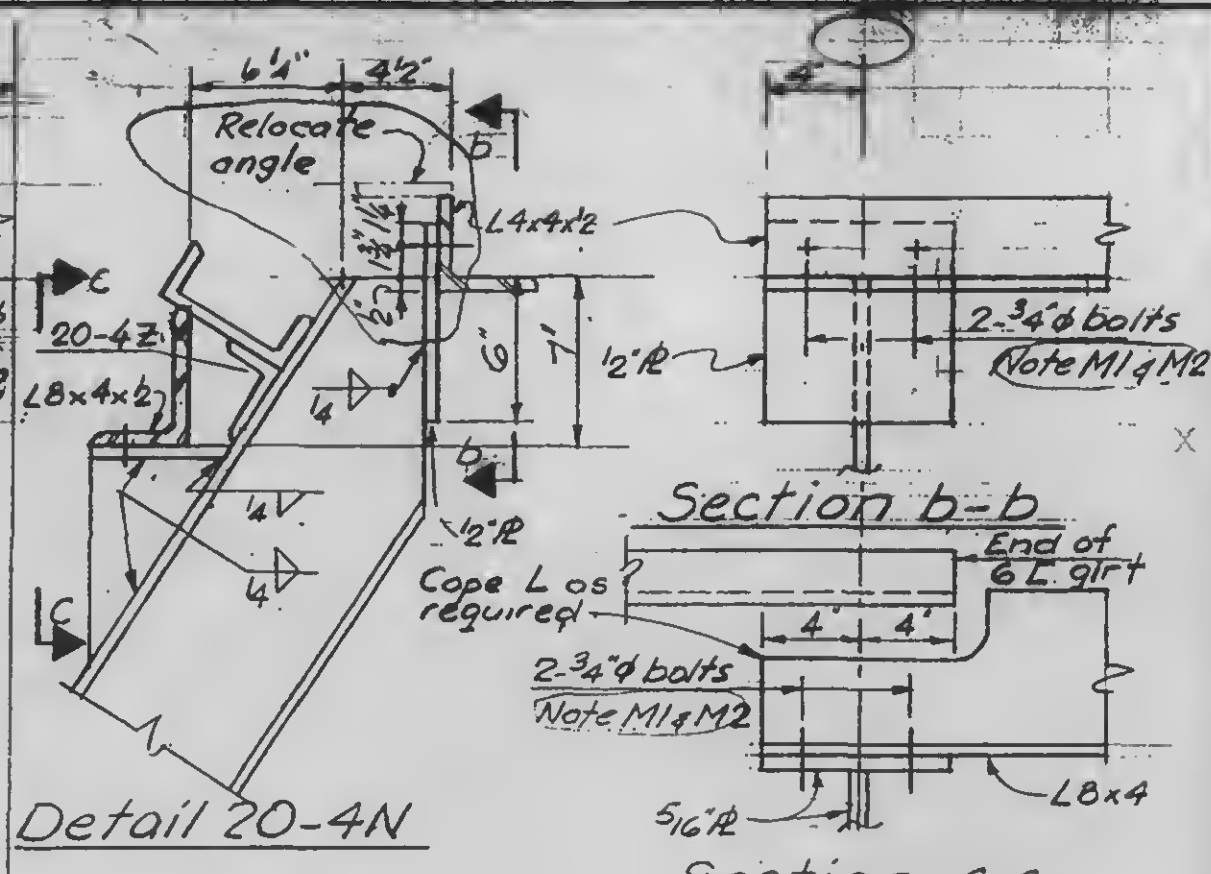
8-20-70
10-4-71



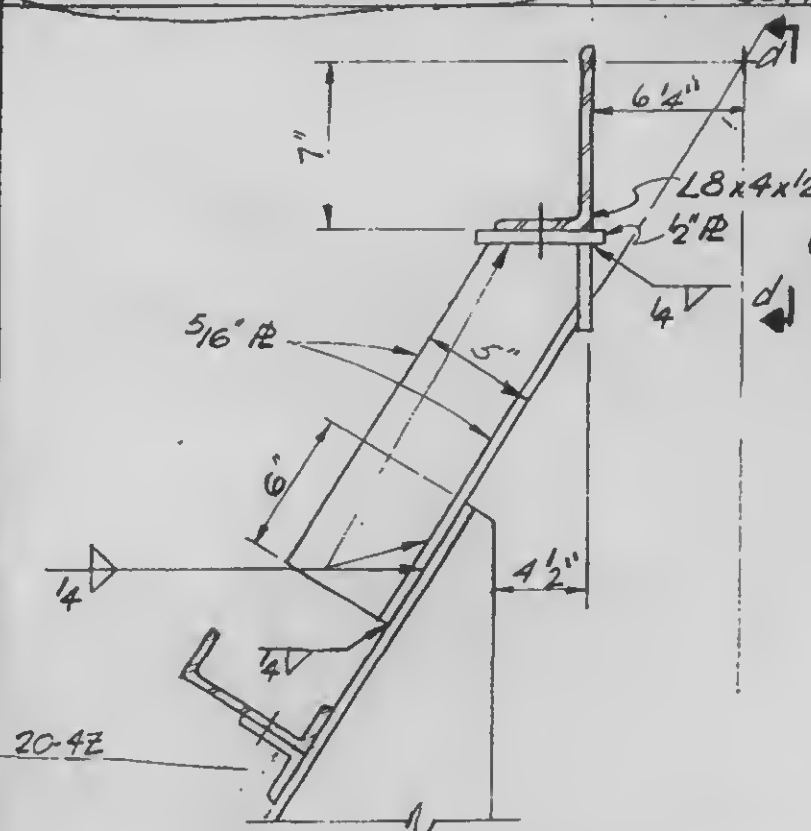
Detail 20-4M

Note M1: Ream holes to 1 5/16" ϕ
Note M2: Reinstall bolts to finger tight condition & jamb threads

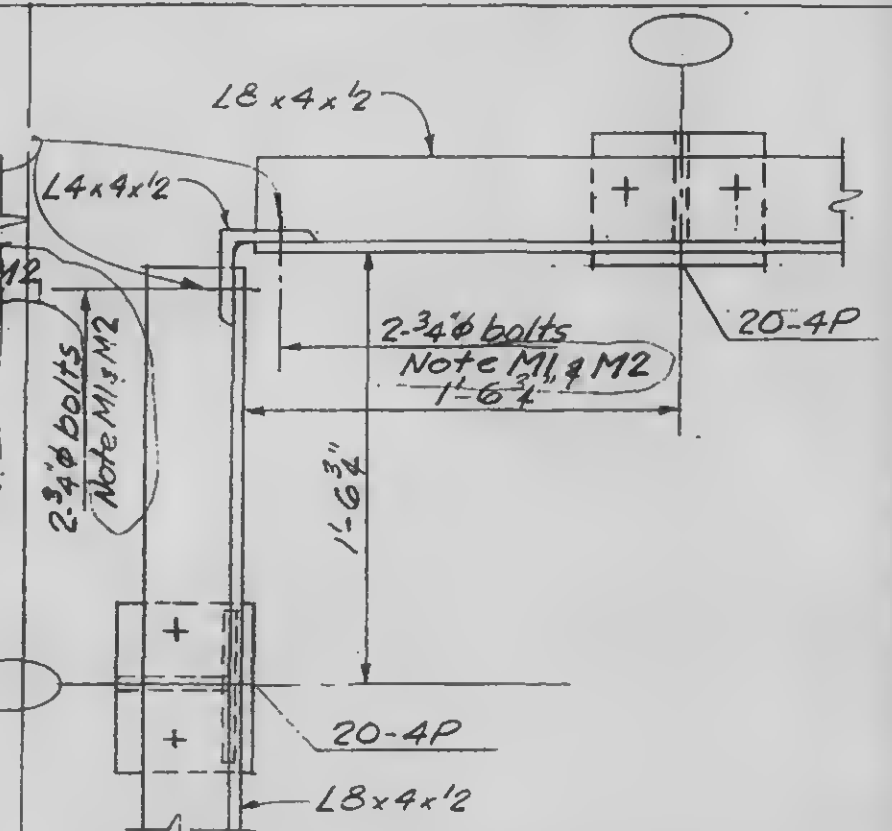
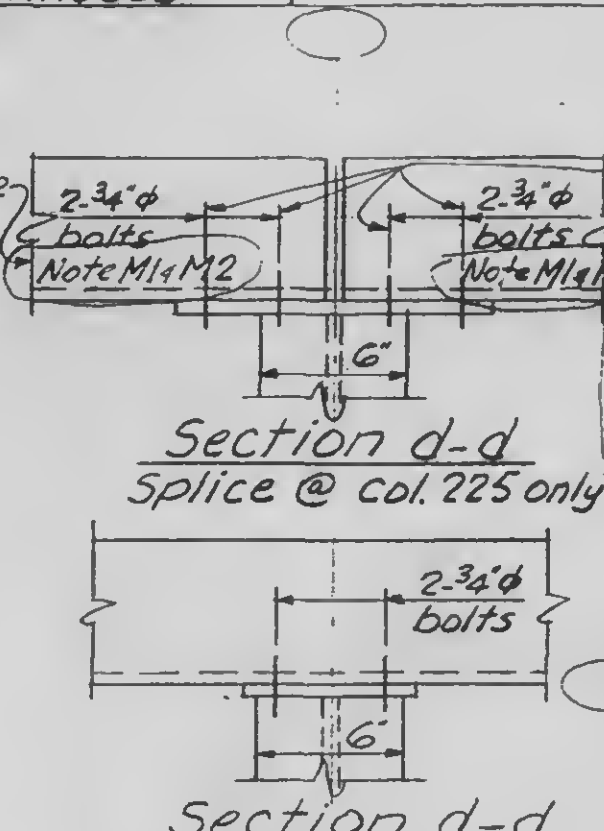
Section a-a
where continuous



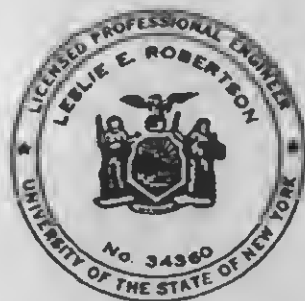
Detail 20-4N



Detail 20-4P



Detail 20-4Q



DESIGNED

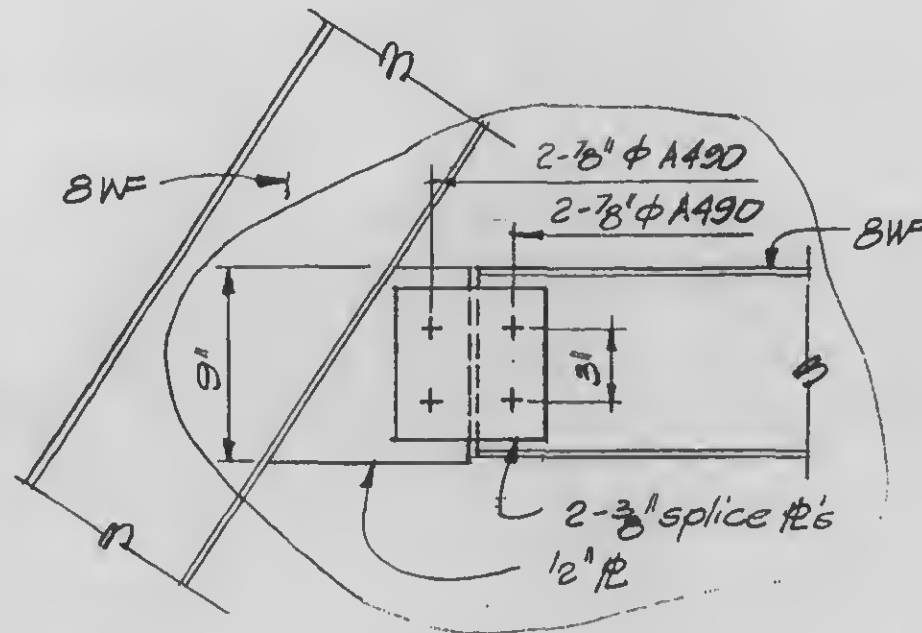
DRAWN
A. FRANQUI

REVIEWED

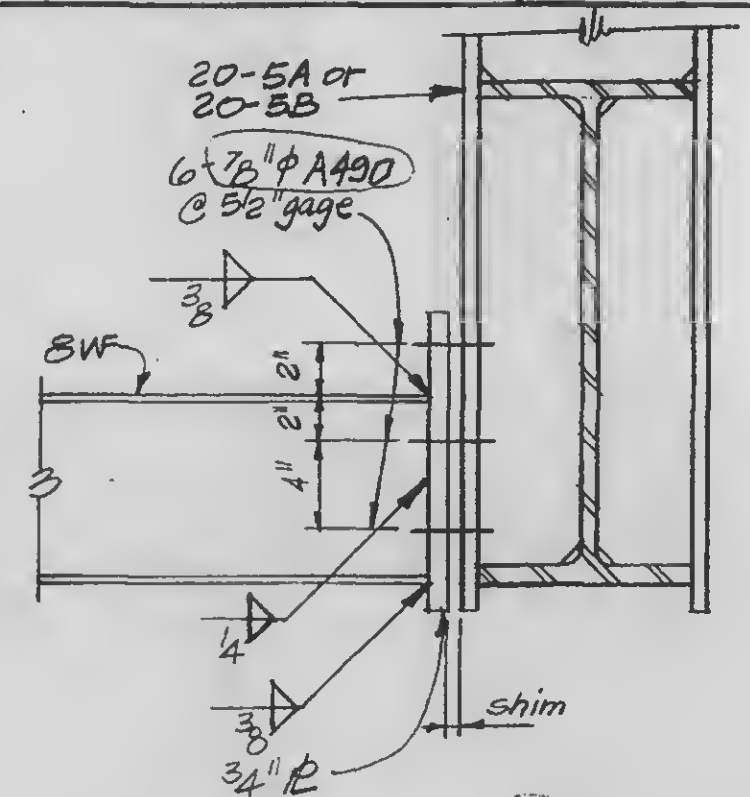
9-AB20-4.7

REVISIONS

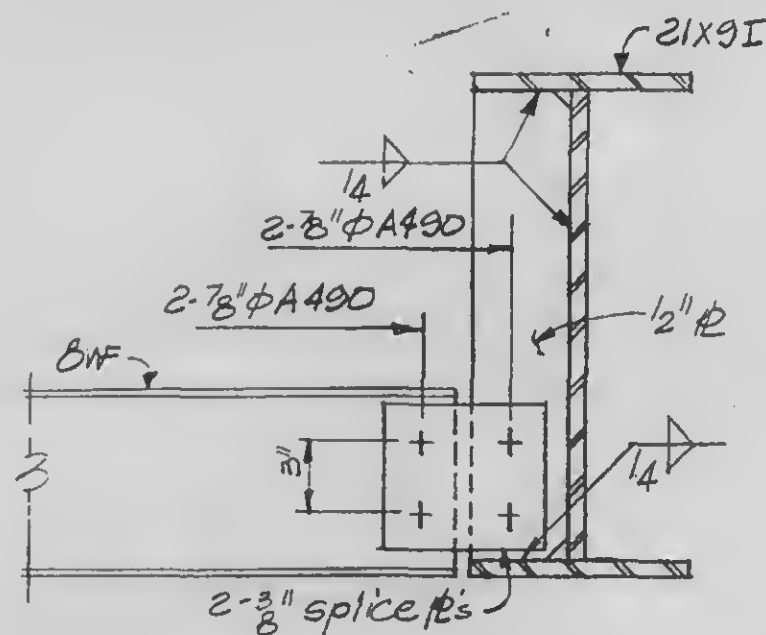
8-20-70



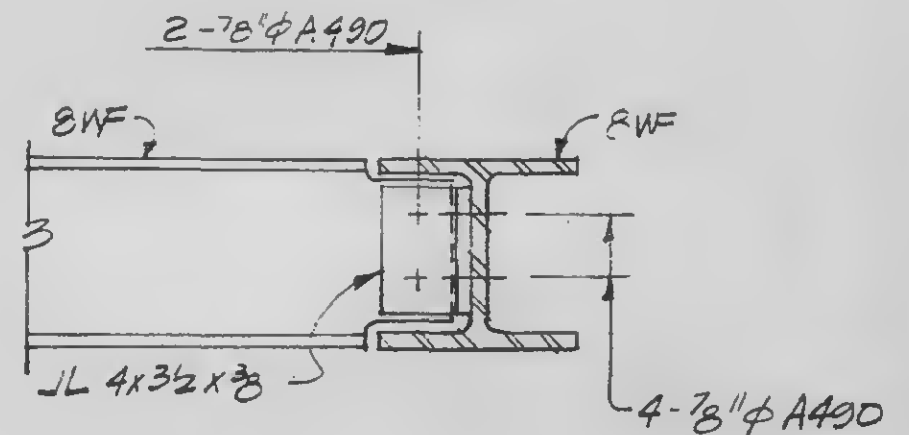
Detail 20-4Q



Detail 20-4R



Detail 20-4S



Detail 20-4T

9-AB20-4.8



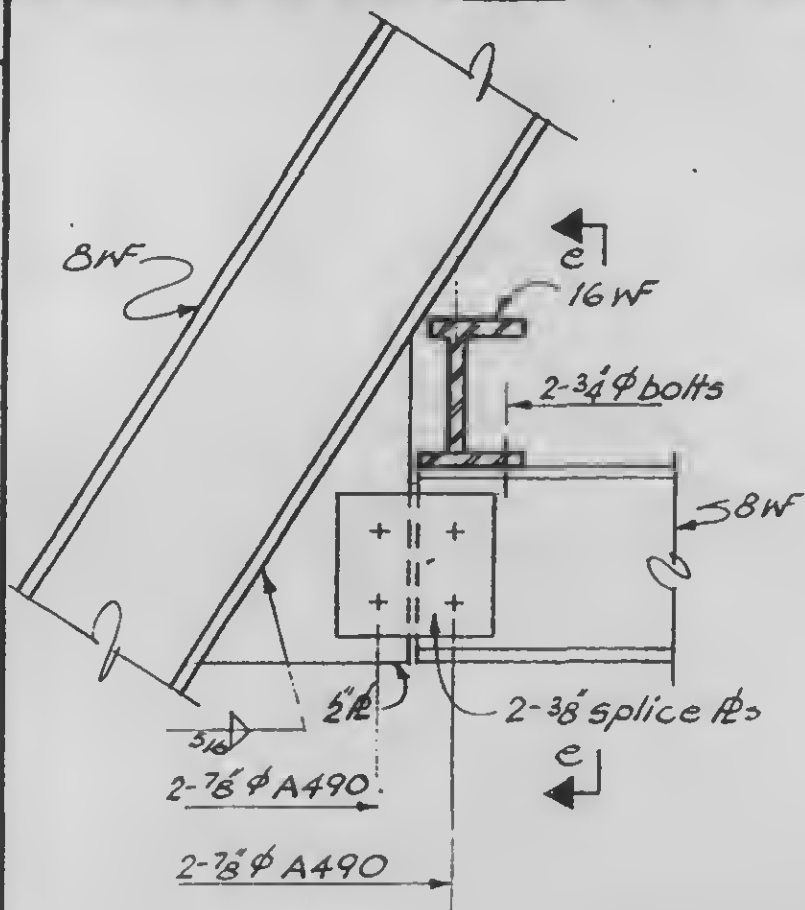
DESIGNED

DRAWN

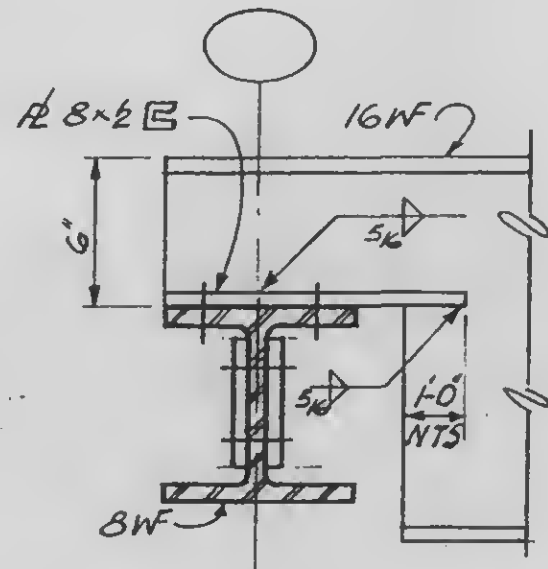
C. J. J. J.

REVIEWED

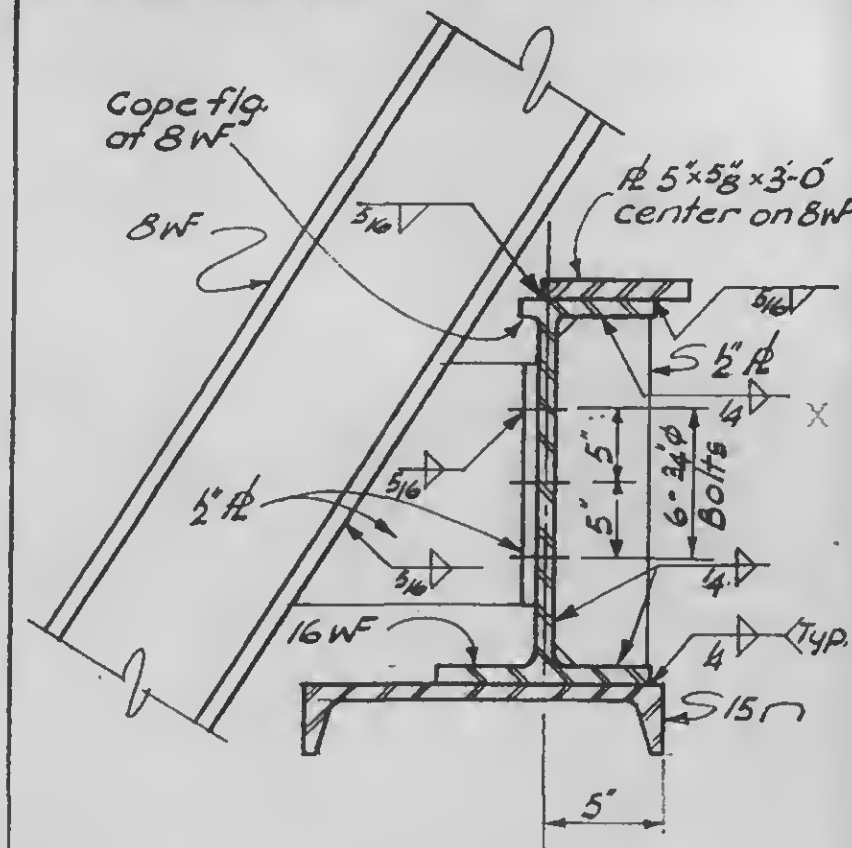
REVISIONS



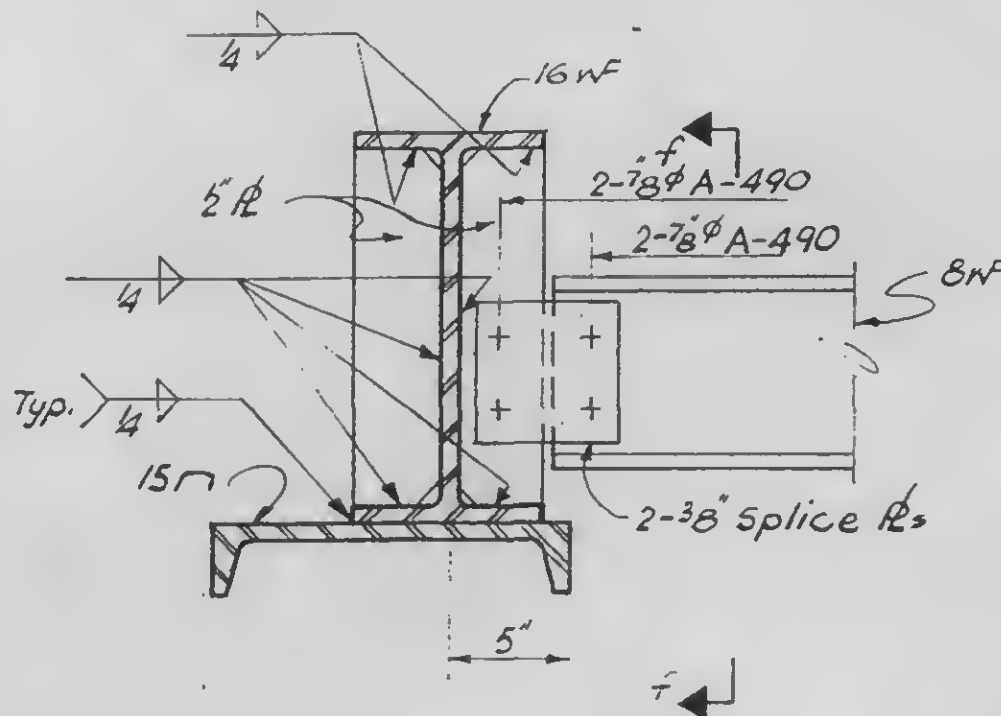
DETAIL 20-4 U



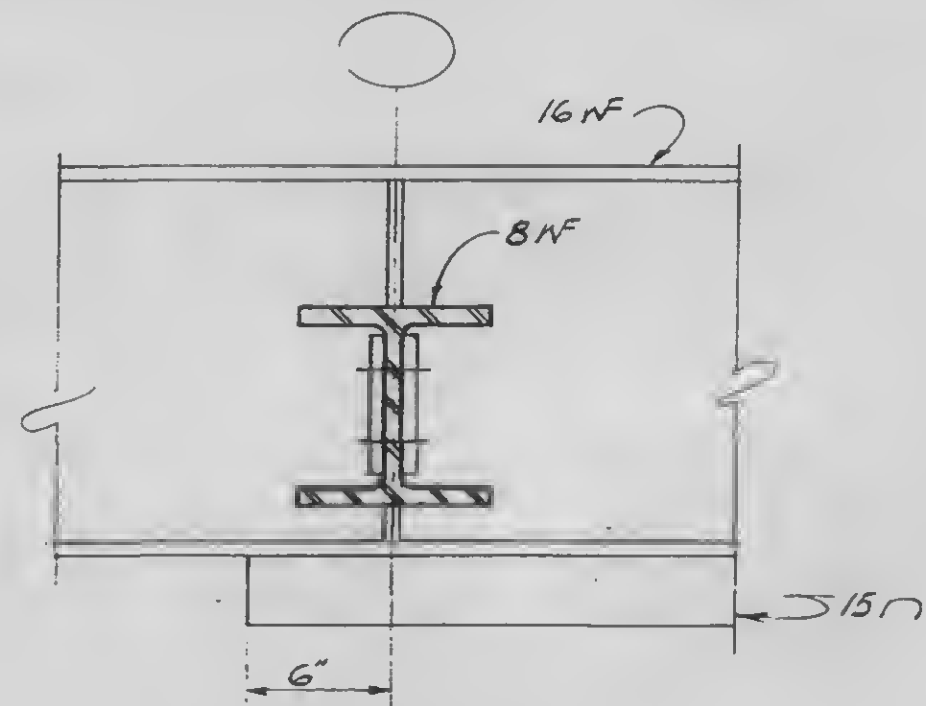
Section e-e



DETAIL 20-4 W



DETAIL 20-4 V



Section f-f



DESIGNED

DRAWN
D. Huggins

REVIEWED

9-AB20-4.9

PROJECT THE WORLD TRADE CENTER

TITLE FL 107 - PH CONNECTION DETAILS - PH. ROOF

DATE 4-1-70

REVISIONS

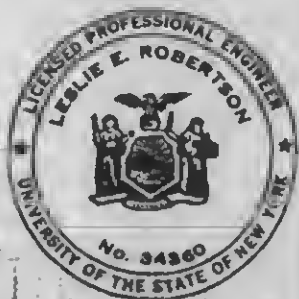
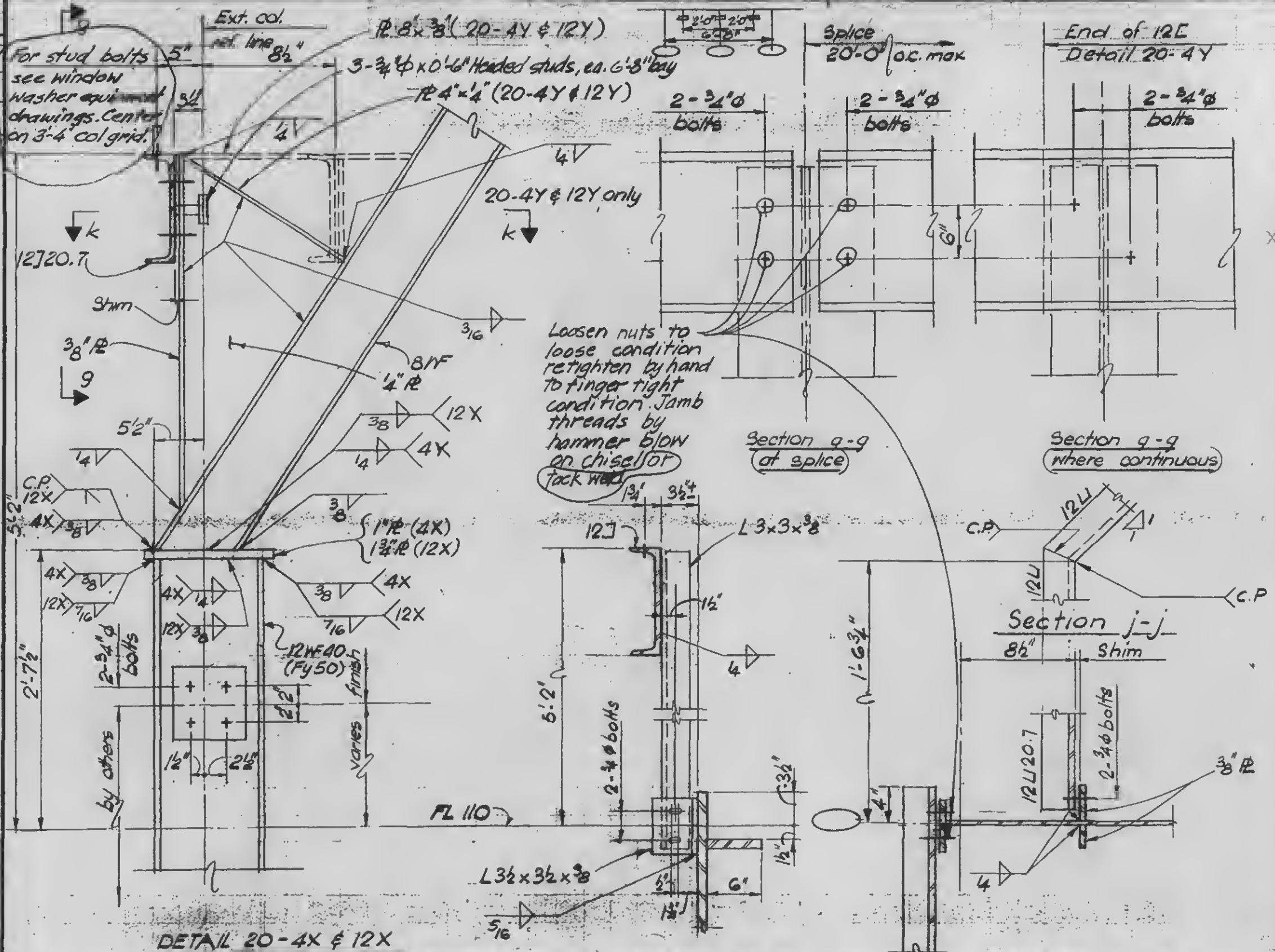
8-20-70

12-21-70

6-30-71

10-4-71

For stud bolts
see window
washer and
drawings. Center
on 3'-4" col grid.



DESIGNED

DRAWN
N. Clarke

REVIEWED

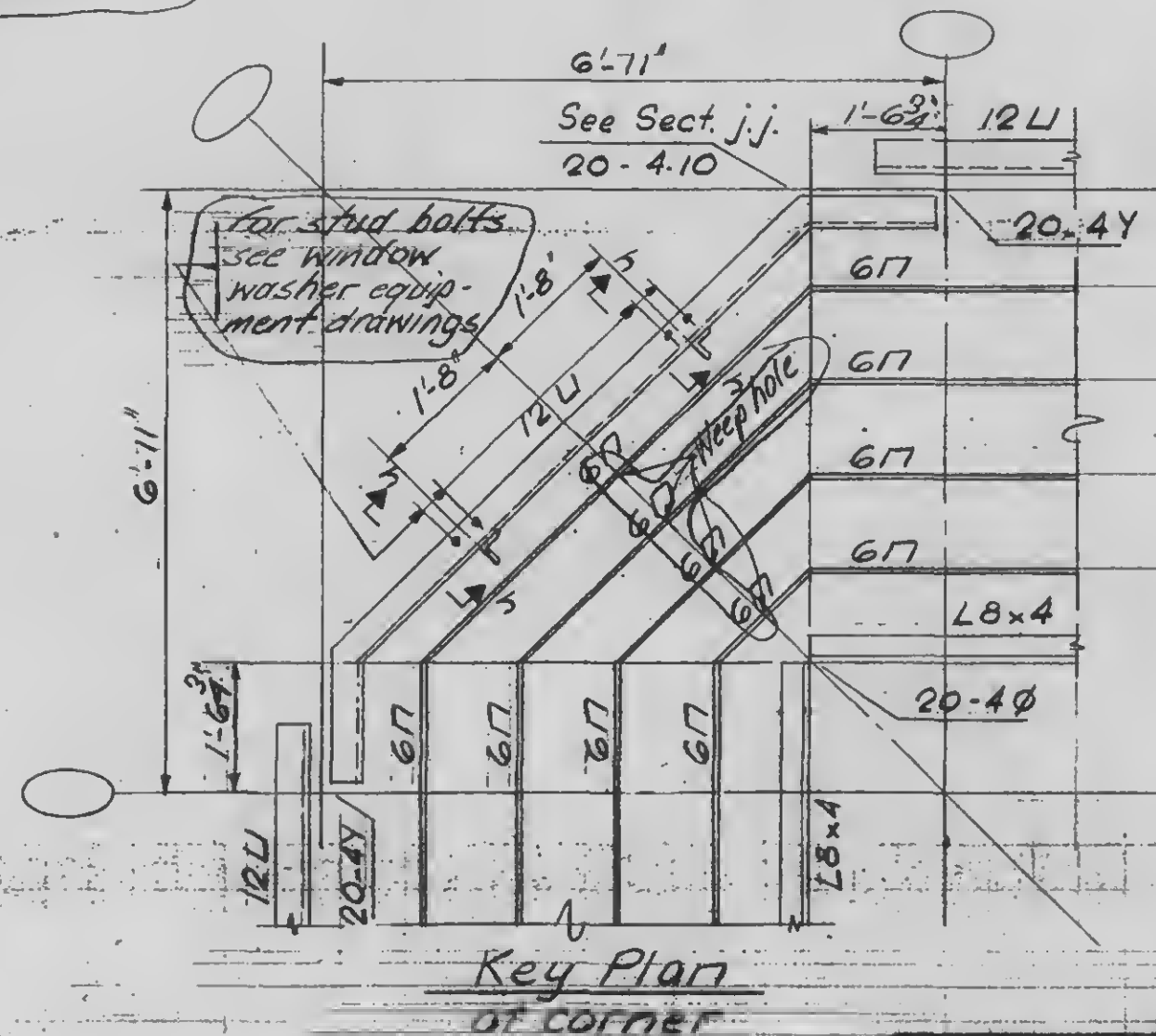
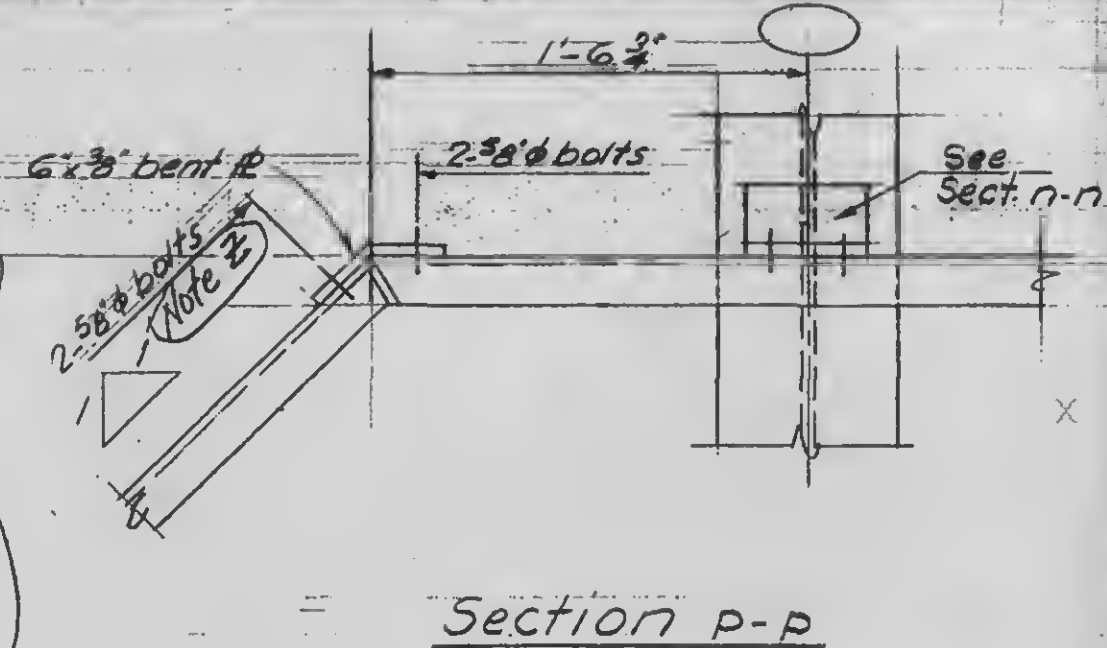
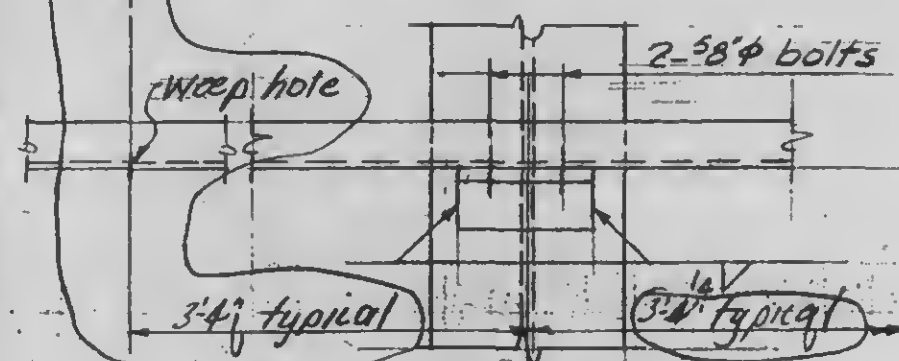
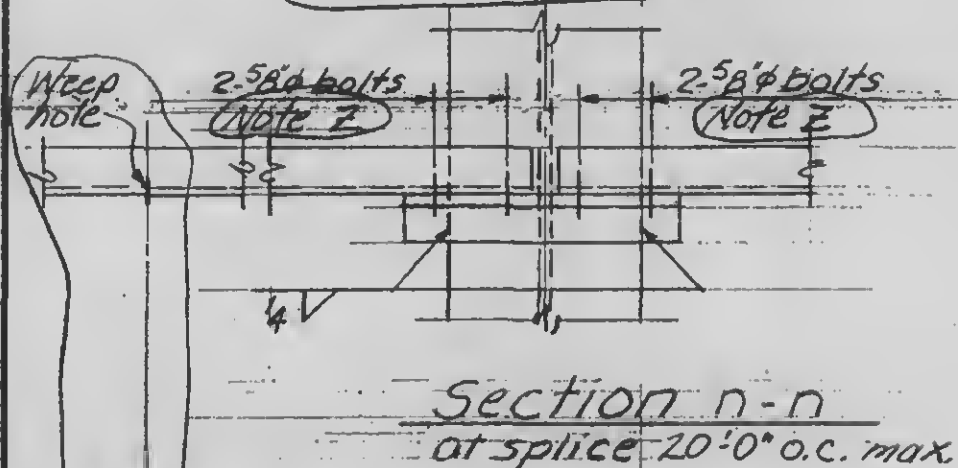
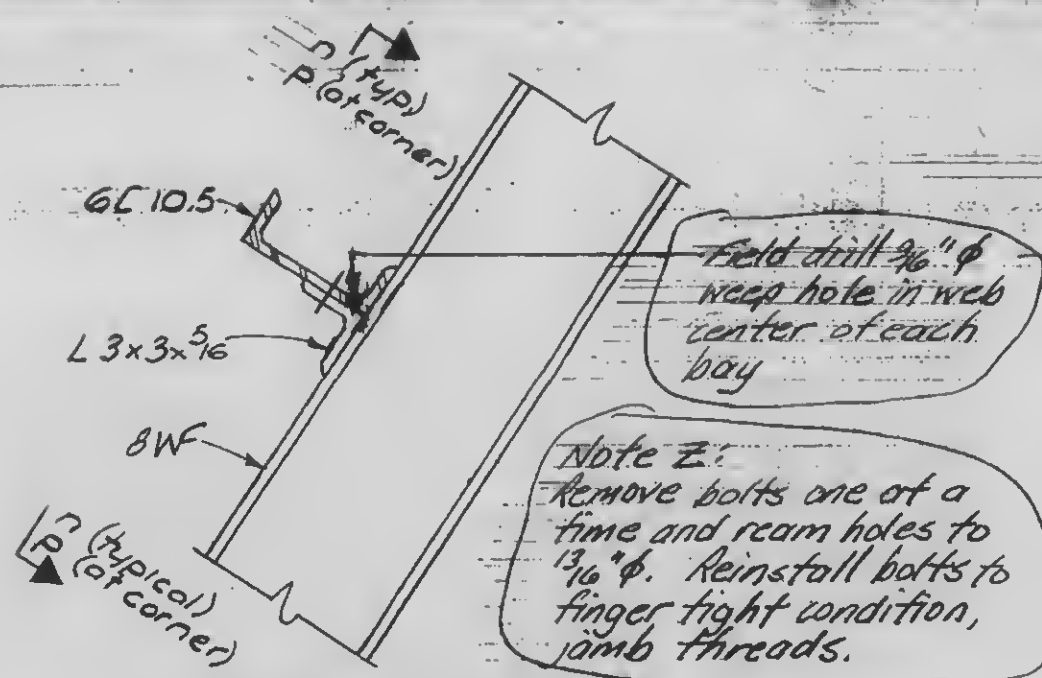
9-AB 20-4.10

PROJECT THE WORLD TRADE CENTER

TITLE FL107-PH. CONNECTION DETAILS, PH. ROOF

DATE 4-1-70

REVISIONS

8-20-70
10/4/71

DESIGNED

DRAWN

A. FRANQUI

REVIEWED

9-AB20-4.11

PROJECT

THE WORLD TRADE CENTER

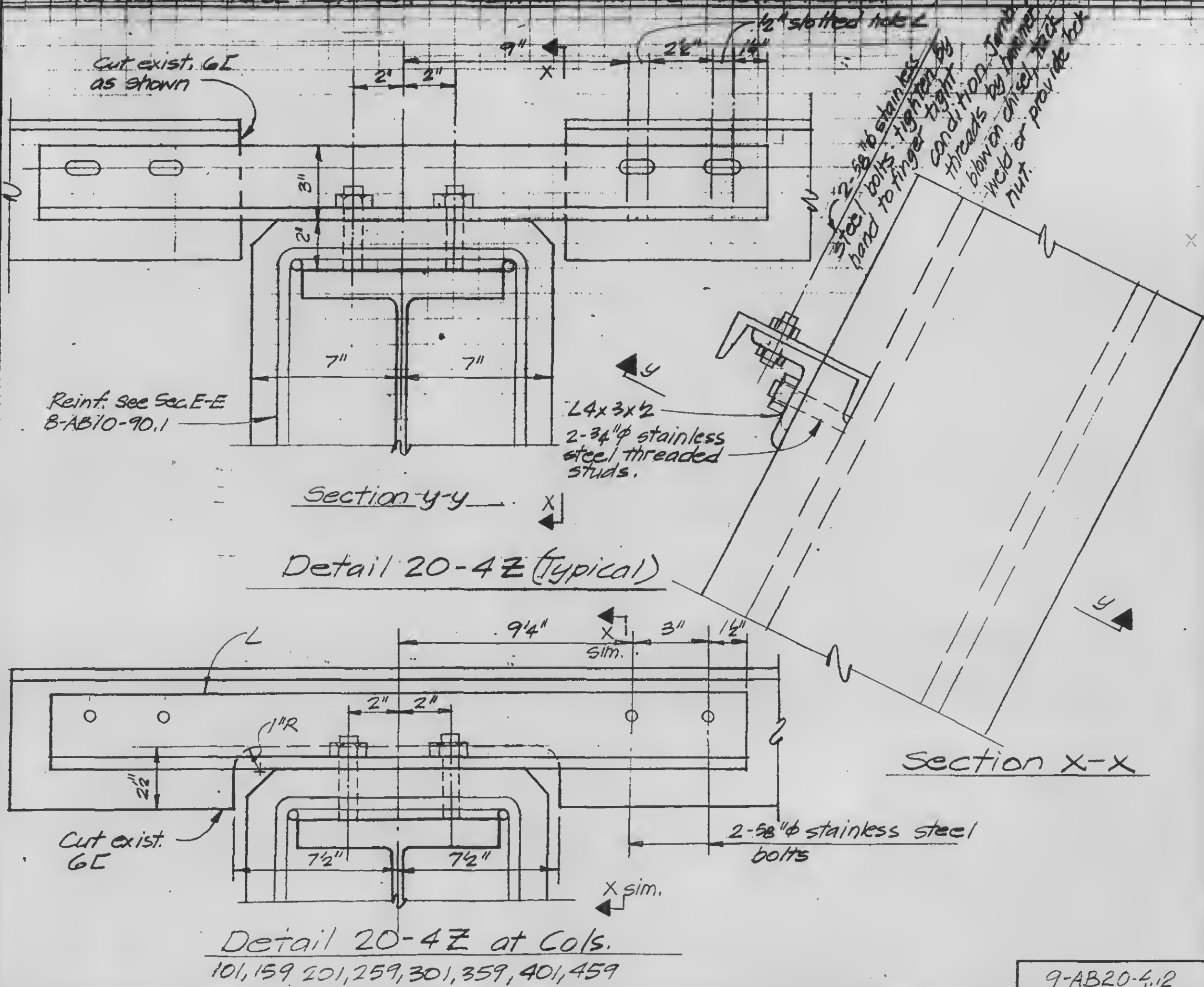
TITLE

DETAIL

AT 4E - PL 110 TO 111

DATE

REVISIONS



P.P. 7/9/71



DESIGNED

DRAWN

REVIEWED

Detail 20-4Z at Cols.

101, 159, 201, 259, 301, 359, 401, 459

9-AB20-4.12

PROJECT

THE WORLD TRADE CENTER

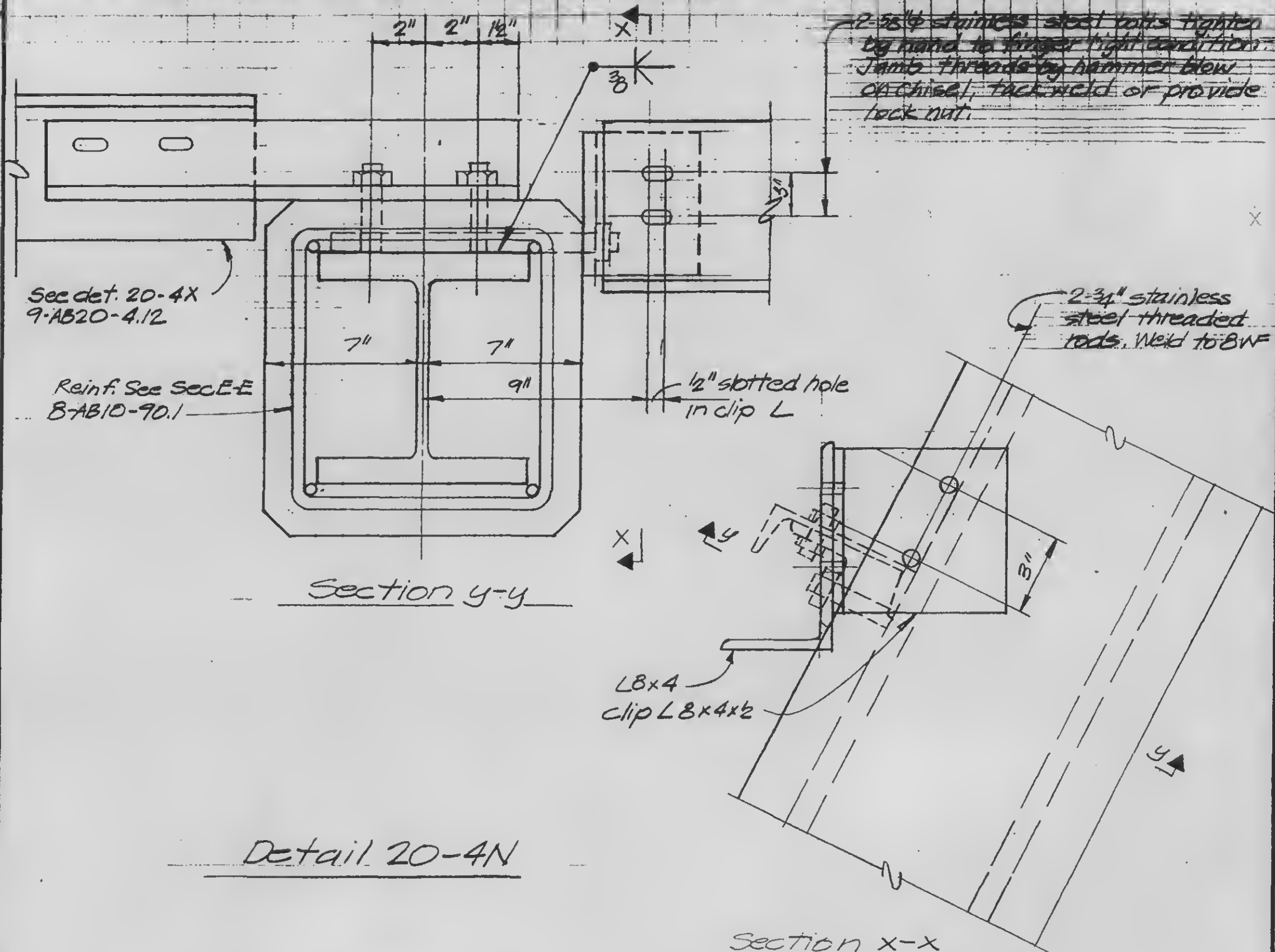
TITLE

DETAIL

AT GC - PLUMB TO FLOOR

DATE

REVISIONS



I.P. 7/9/71



DESIGNED

DRAWN

REVIEWED

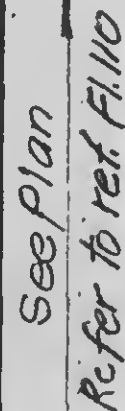
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Structural & Civil Engineers

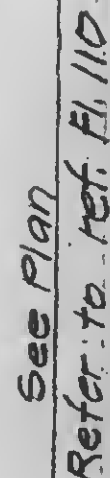
TITLE *FL 107-PH CONNECTION 'DETAIL - PH ROOF*

DATE 4-1-70

7/8/70



DETAIL 20-5A & 20-5B



Detail 20-5C

Detail	Roof Beam Sec. Plan	R t1	R t2	R t3	Weld W1
20-5A	16WF	12"	34"	12"	58"
20-5B	12WF	12"	34"	8"	5/16"

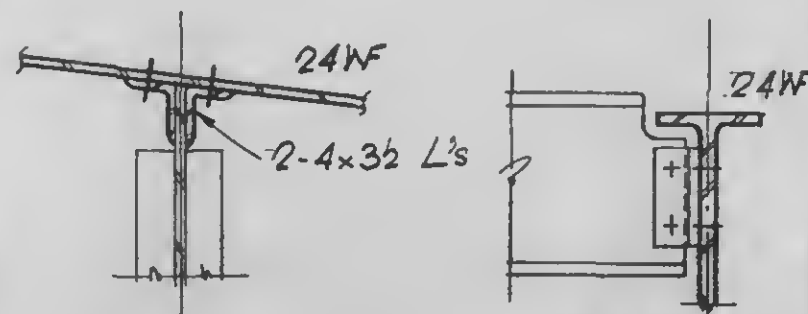
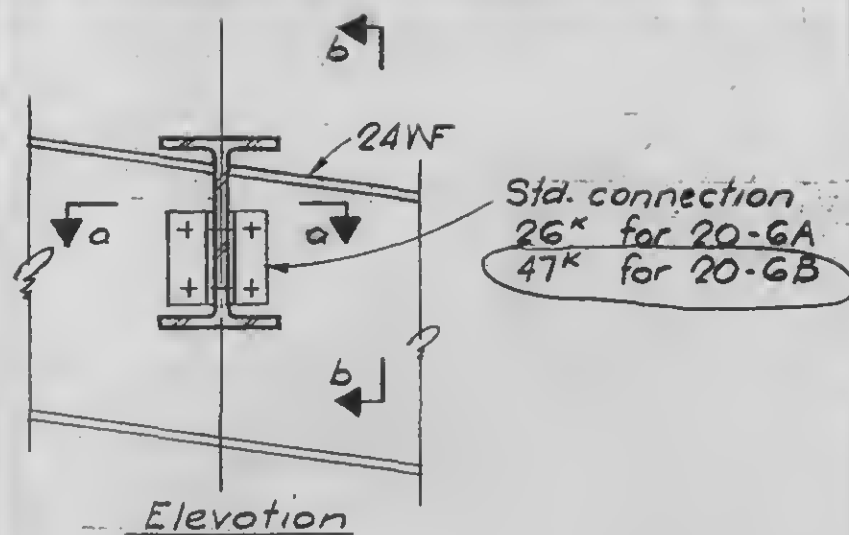
9-AB20-5



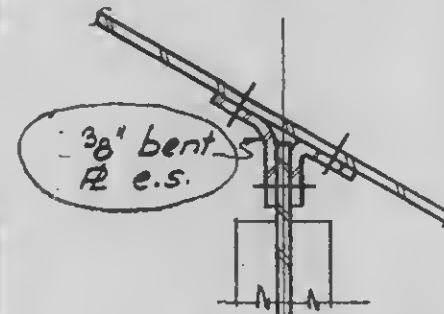
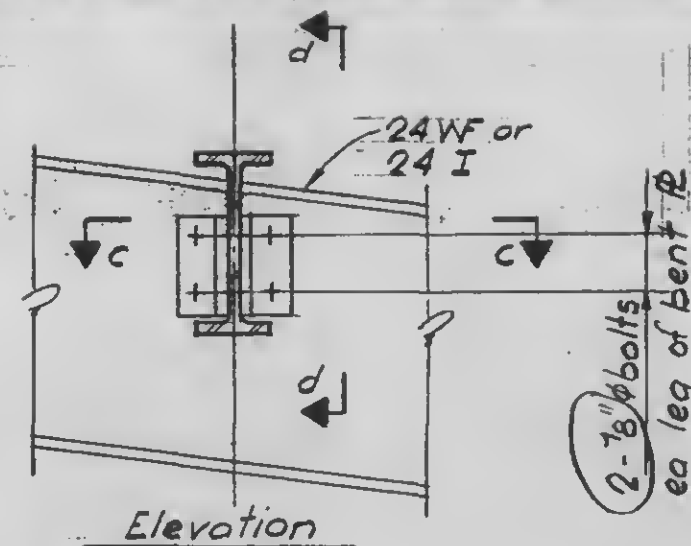
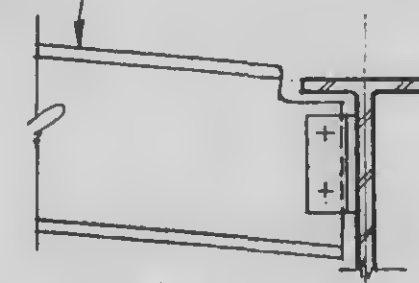
DRAWN
D. Huggins
REVIEWED

REVISIONS

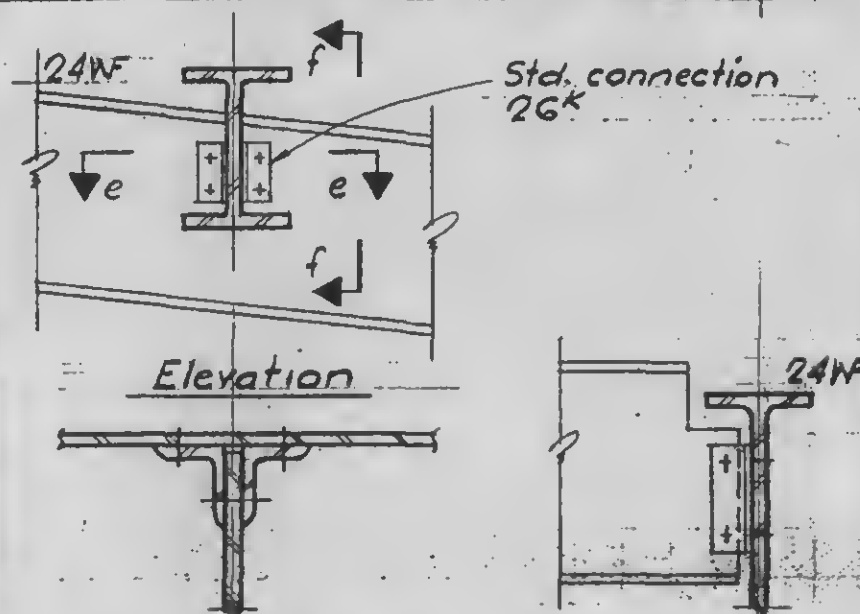
6-18-70



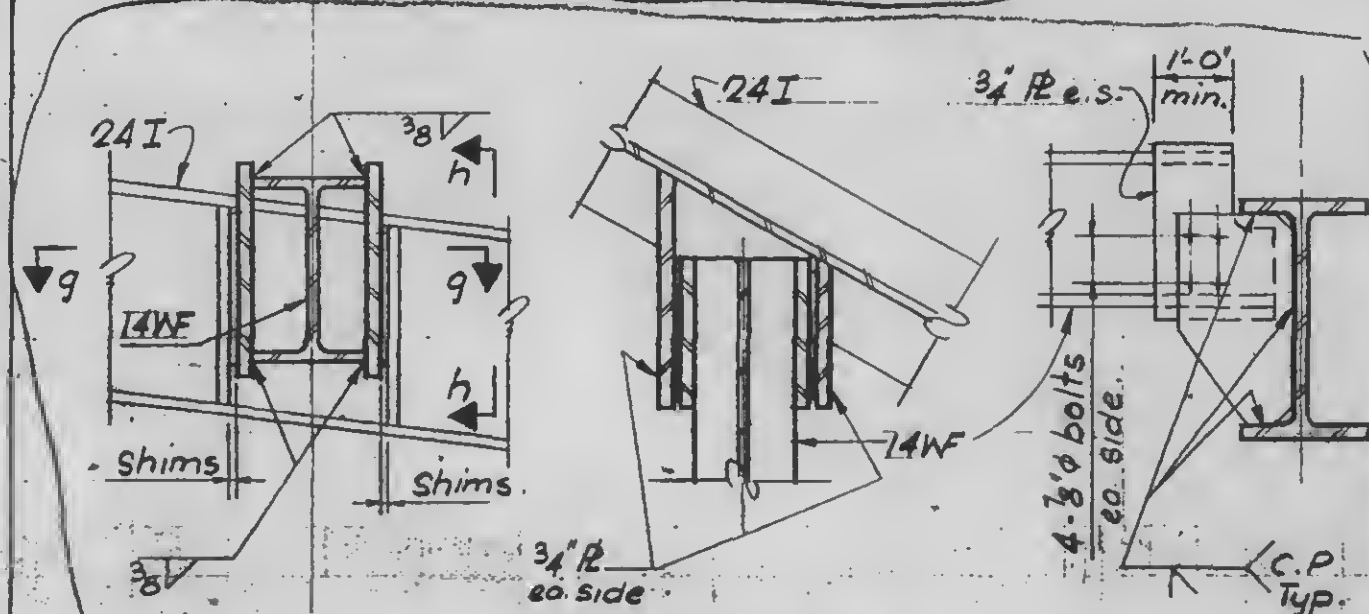
DETAIL 20-6A & 20-6B

Sloped condition shown.
Horizontal beam details
or similar.

DETAIL 20-6C & 20-6D

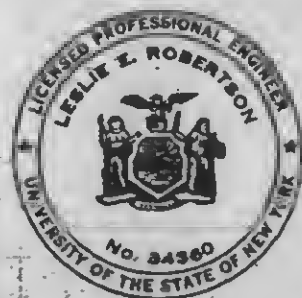


DETAIL 20-6E

3/4" R
ea. side

DETAIL 20-6F

DETAIL 20-6G



DESIGNED

DRAWN
T. Terrelange

REVIEWED

PROJECT

THE WORLD TRADE CENTER

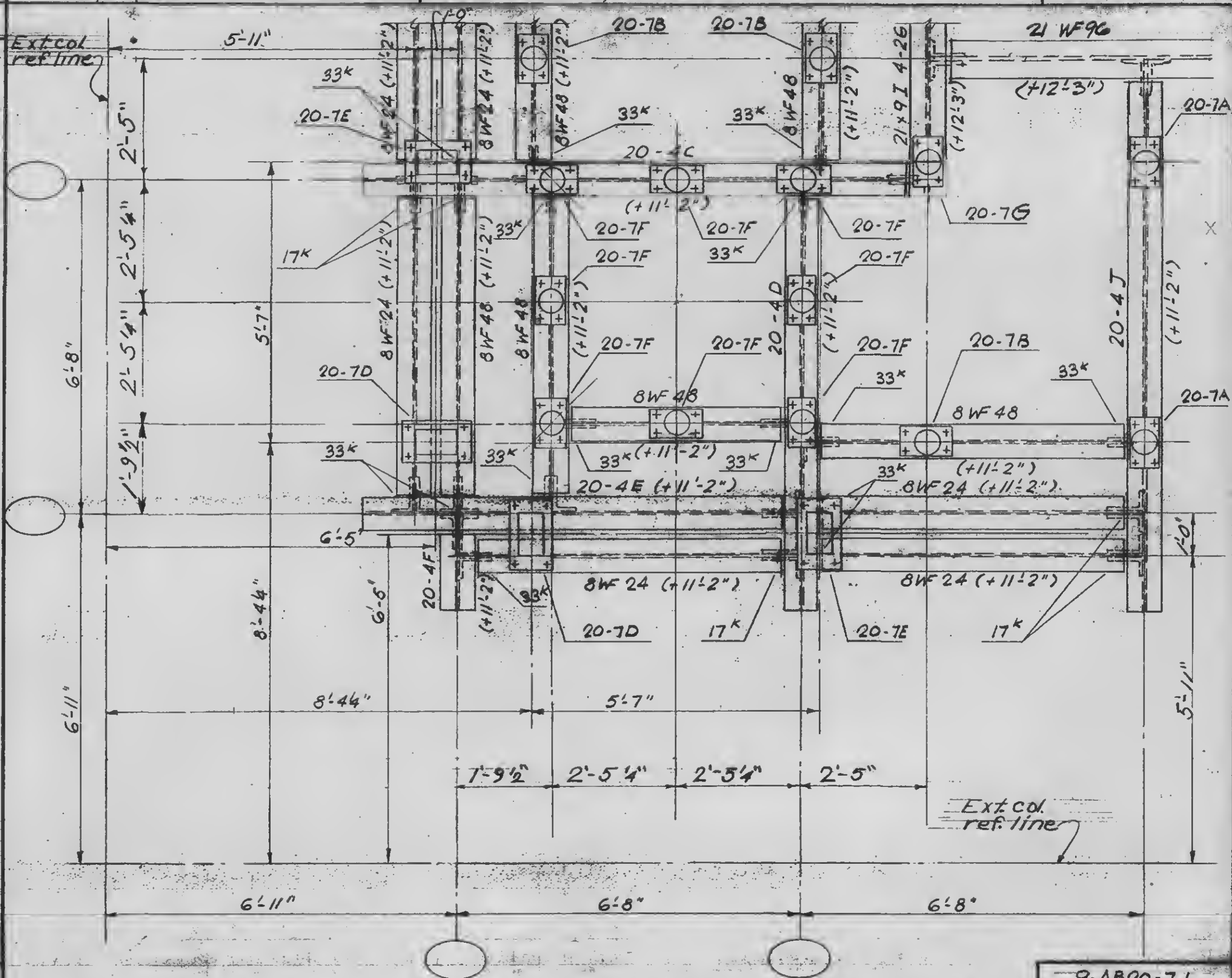
TITLE

FL107-PH PART PLAN - PH ROOF

DATE

8-20-70

REVISIONS



DESIGNED

DRAWN
F. Smith

REVIEWED

9-AB20-7.1

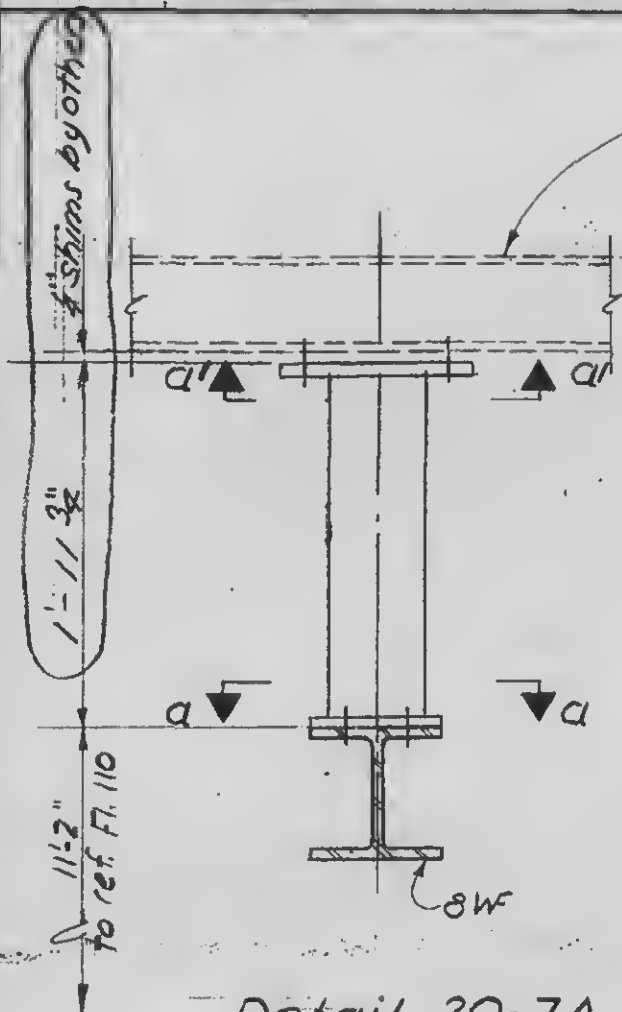
PROJECT THE WORLD TRADE CENTER

TITLE FL. 107-PH CONNECTION DETAILS - PH ROOF

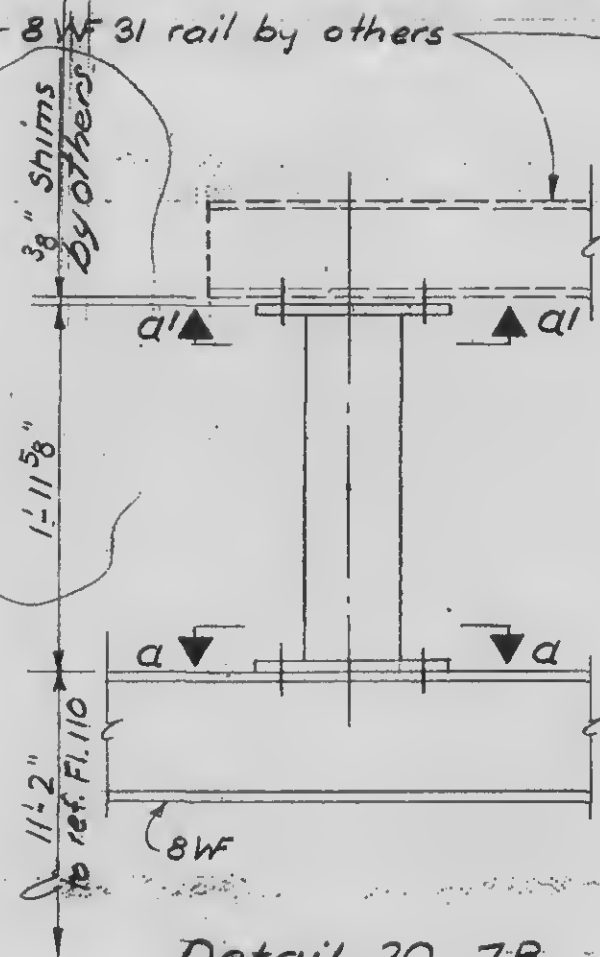
DATE 4-1-70

REVISIONS

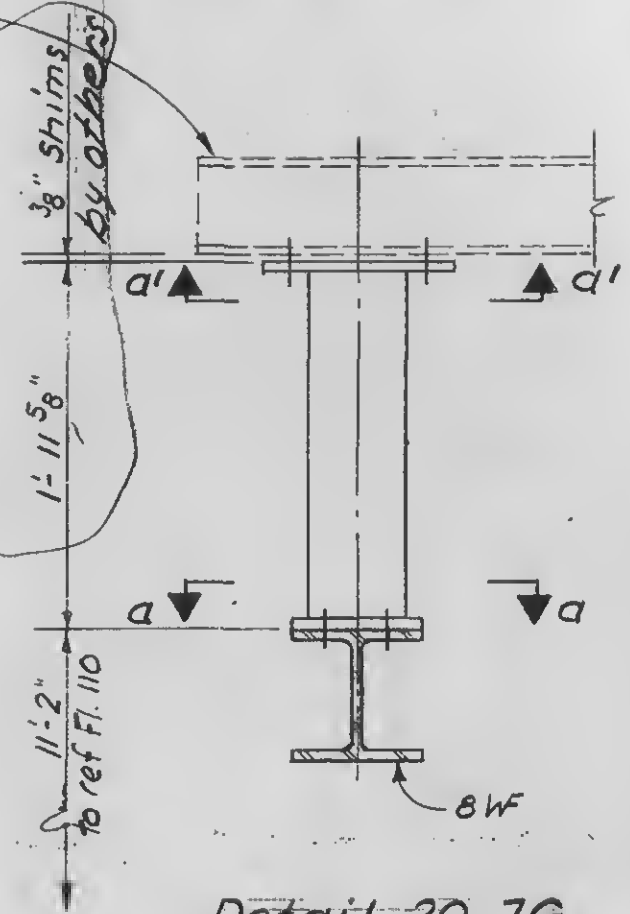
8-20-70



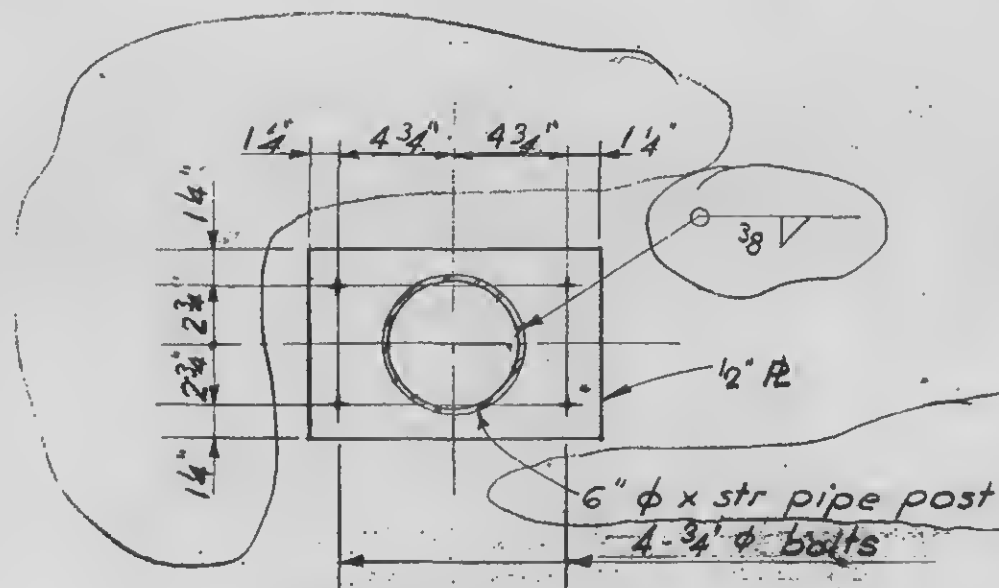
Detail 20-7A



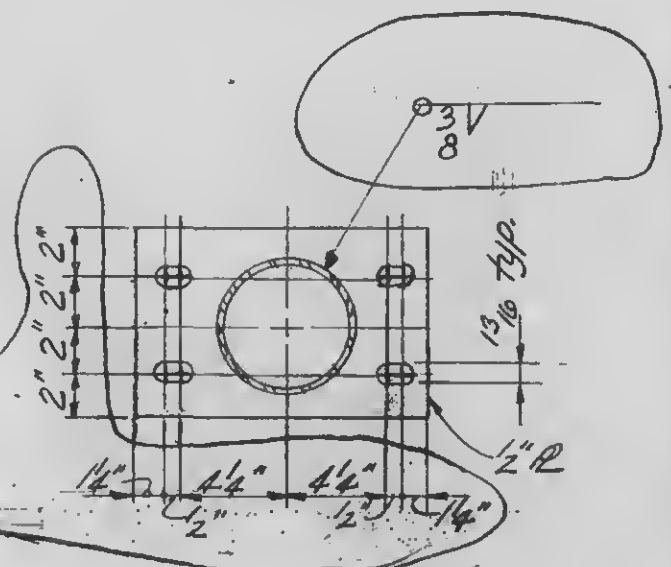
Detail 20-7B



Detail 20-7G



Section a-a



Section a'-a'

DESIGNED

DRAWN

F. Smith

REVIEWED

9-AB20-7.2

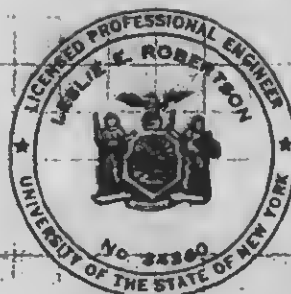
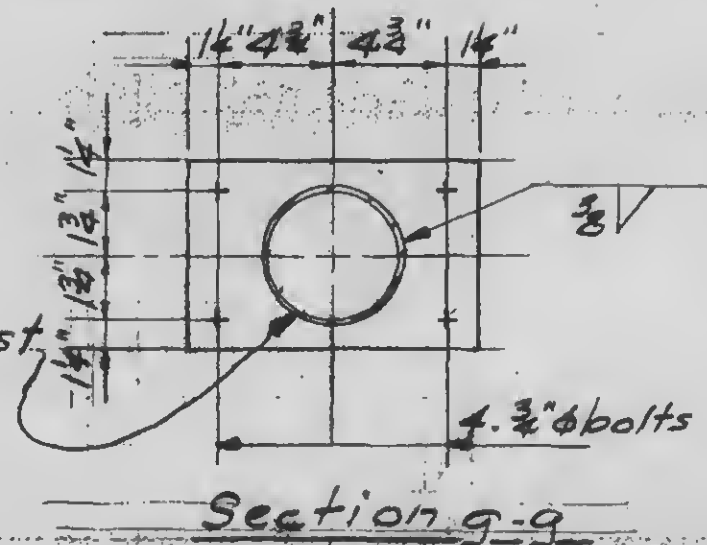
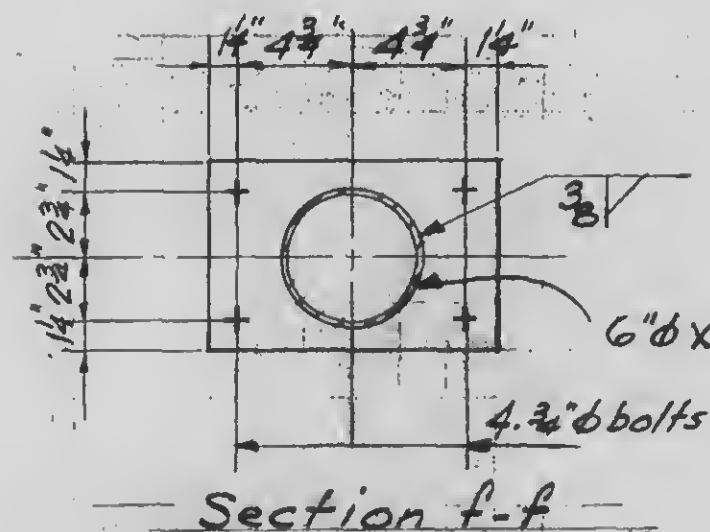
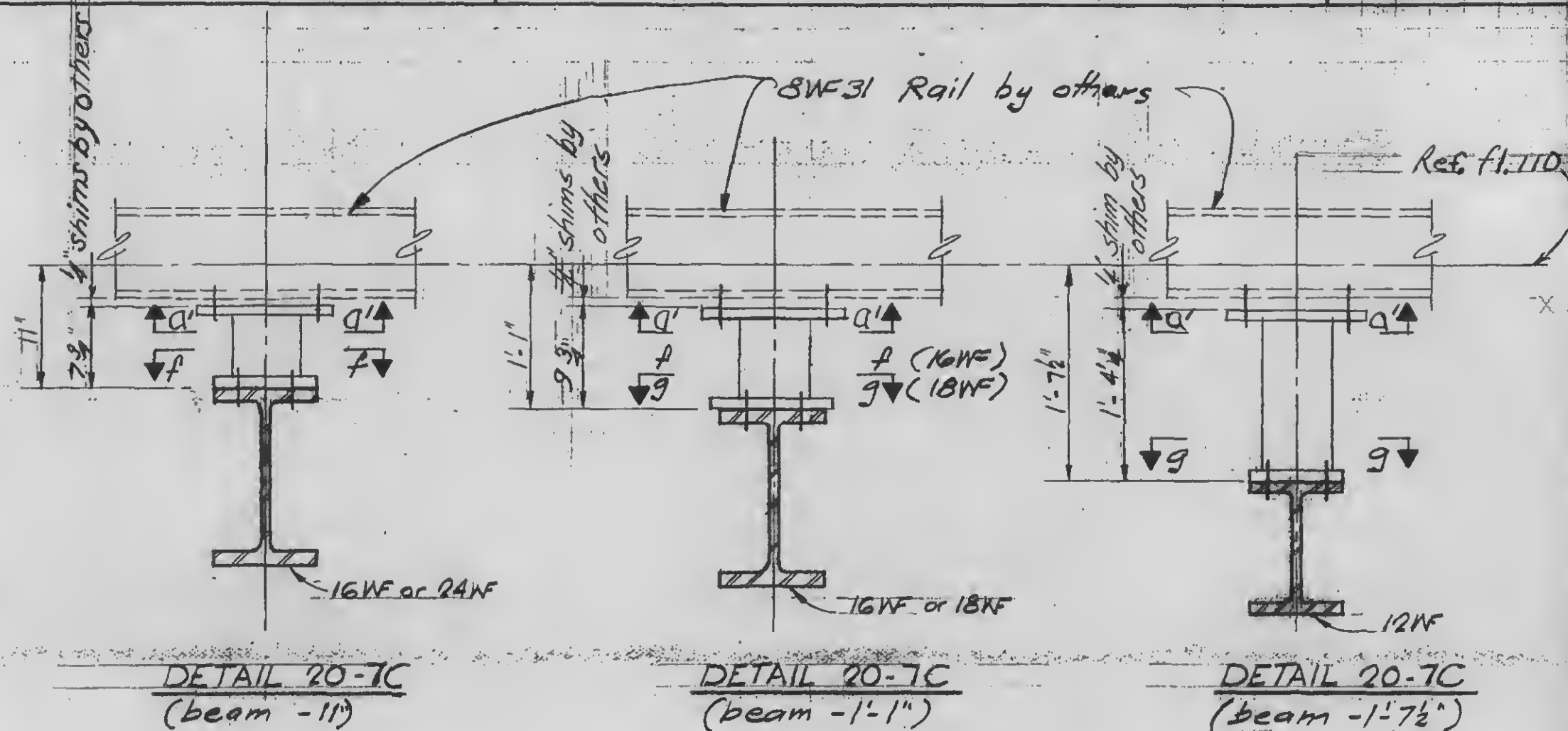
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER TITLE FL 107-PH, CONNECTION DETAILS - PH ROOF

DATE 8-20-70

REVISIONS



DESIGNED

DRAWN
T. Tavelange

REVIEWED

9-AB20-7.3

PROJECT

THE WORLD TRADE CENTER

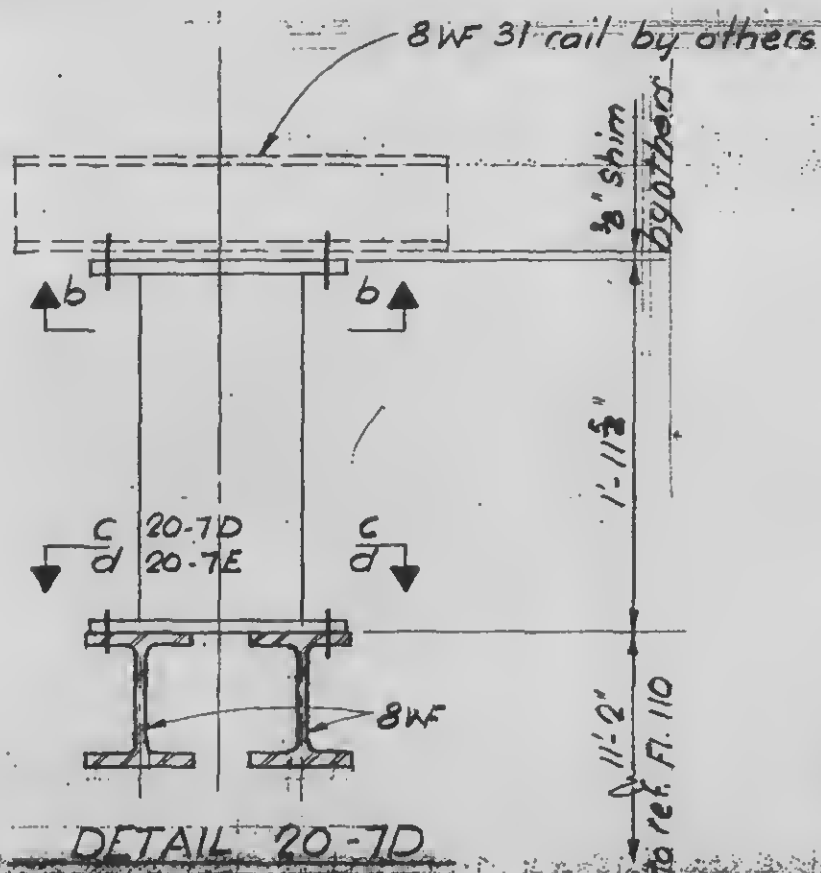
TITLE

FL 107-PH, CONNECTION DETAILS - PH ROOF

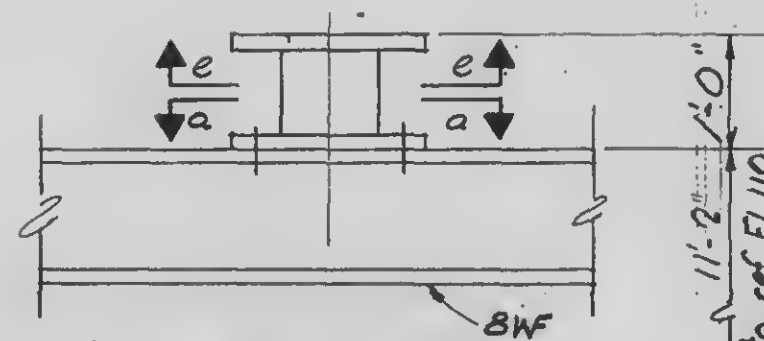
DATE

8-20-70

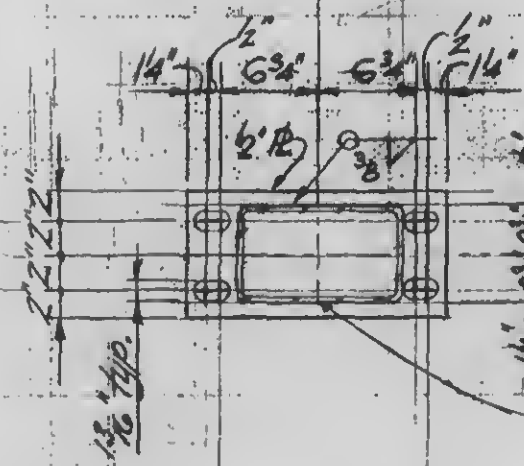
REVISIONS



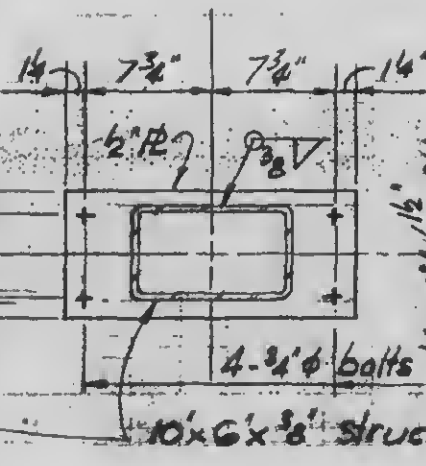
DETAIL 20-7D
DETAIL 20-7E



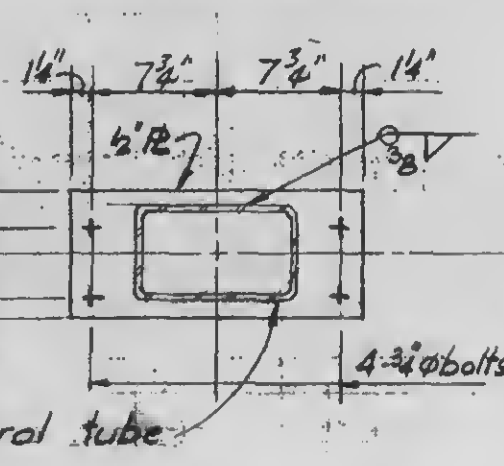
DETAIL 20-7F



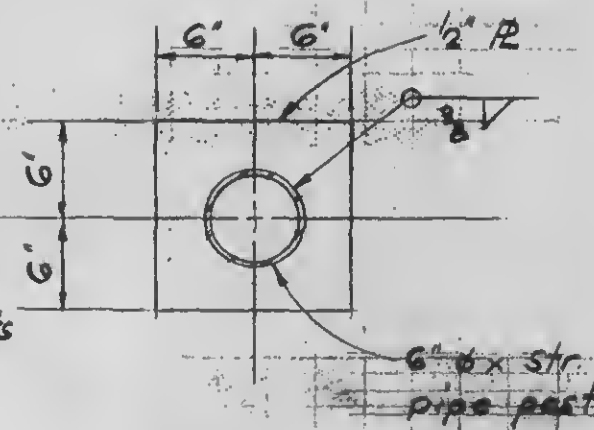
Section b-b



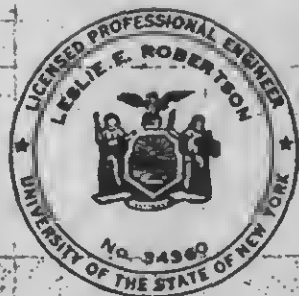
Section c-c



Section d-d



Section e-e



DESIGNED

DRAWN

T. Terrebasse

REVIEWED

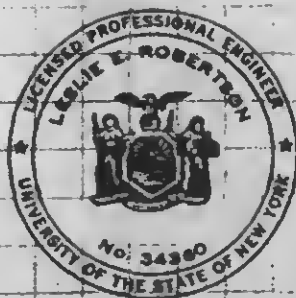
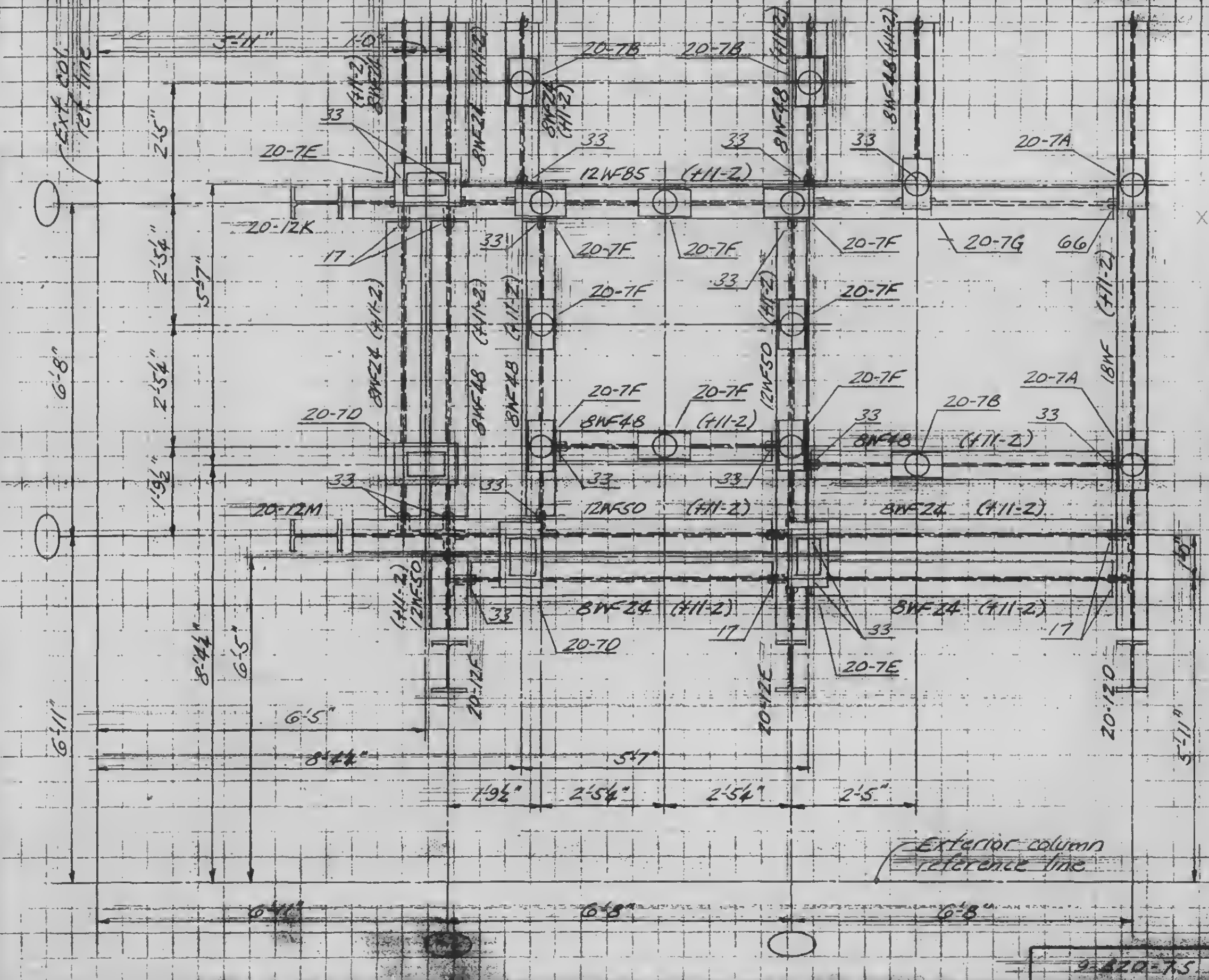
9-A520-14

Structural & Civil Engineers

TITLE
FL 107 PH PART PLAN PH ROOF

DATE 12/21/70

REVISIONS

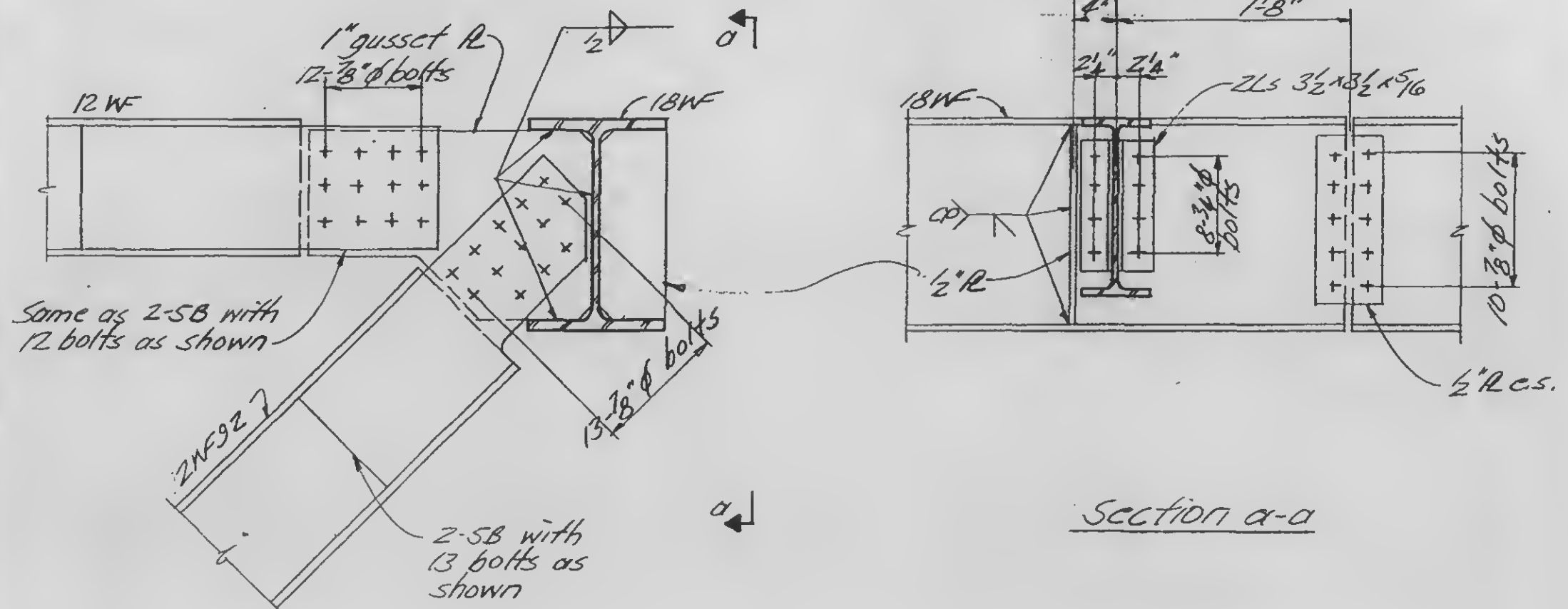


DESIGNED

REVIEWS

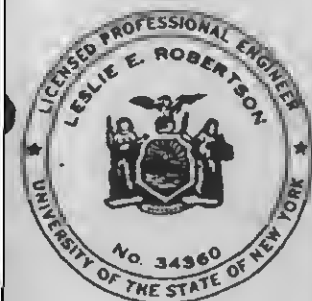
REVISIONS

6/18/70



Section a-a

Detail: 20-8A



DESIGNED

DRAWN

JA

REVIEWED

9-ABZO-8.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

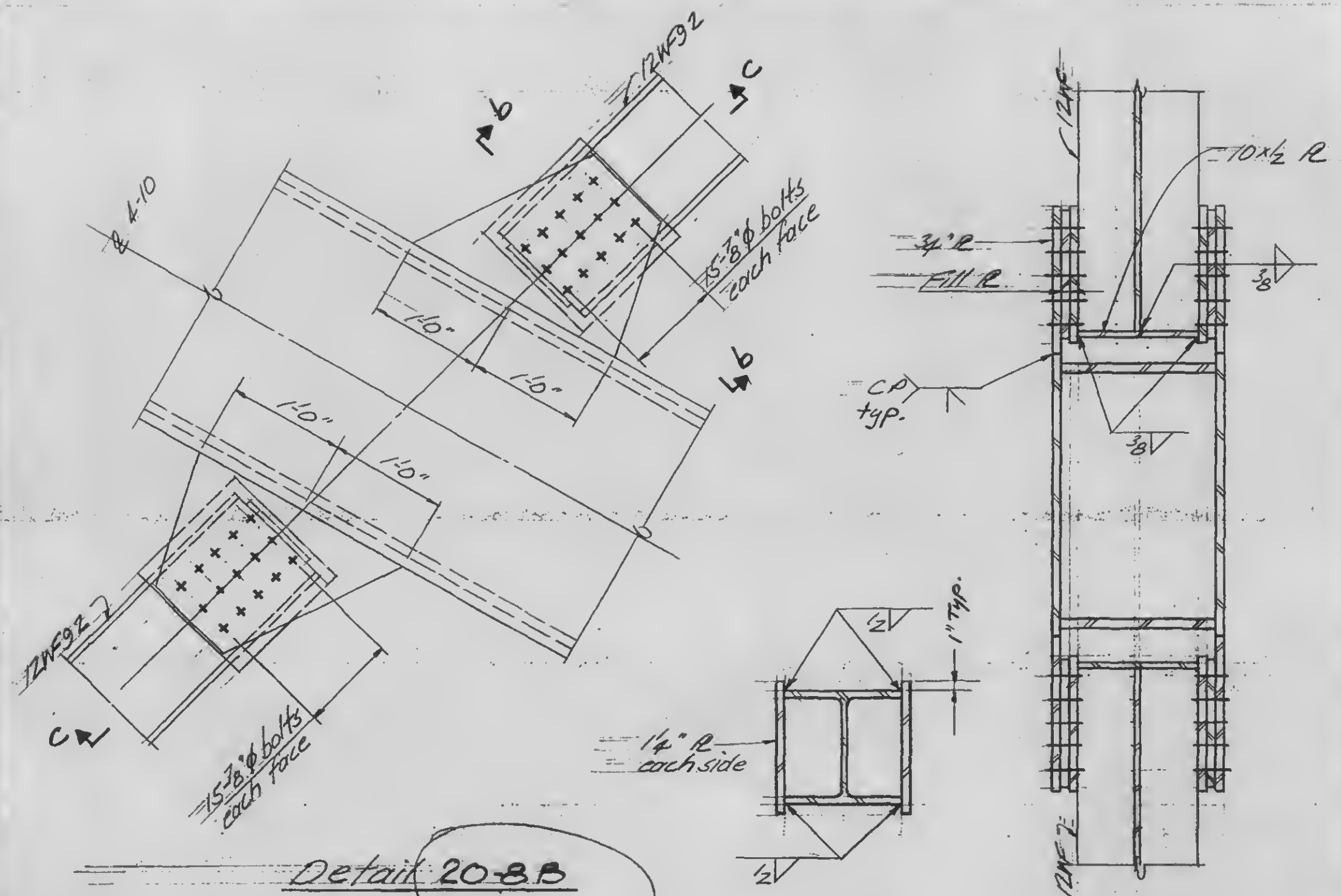
FLOOR 107-PH CONNECTION DETAIL-PH ROOF

DATE

4-1-70

REVISIONS

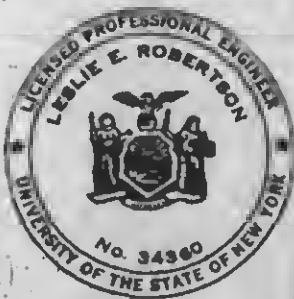
6/18/70



Detail 20-BB

Section b-b

Section c-c



DESIGNED

DRAWN

J. Adams

REVIEWED

9-AB20-B.2

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

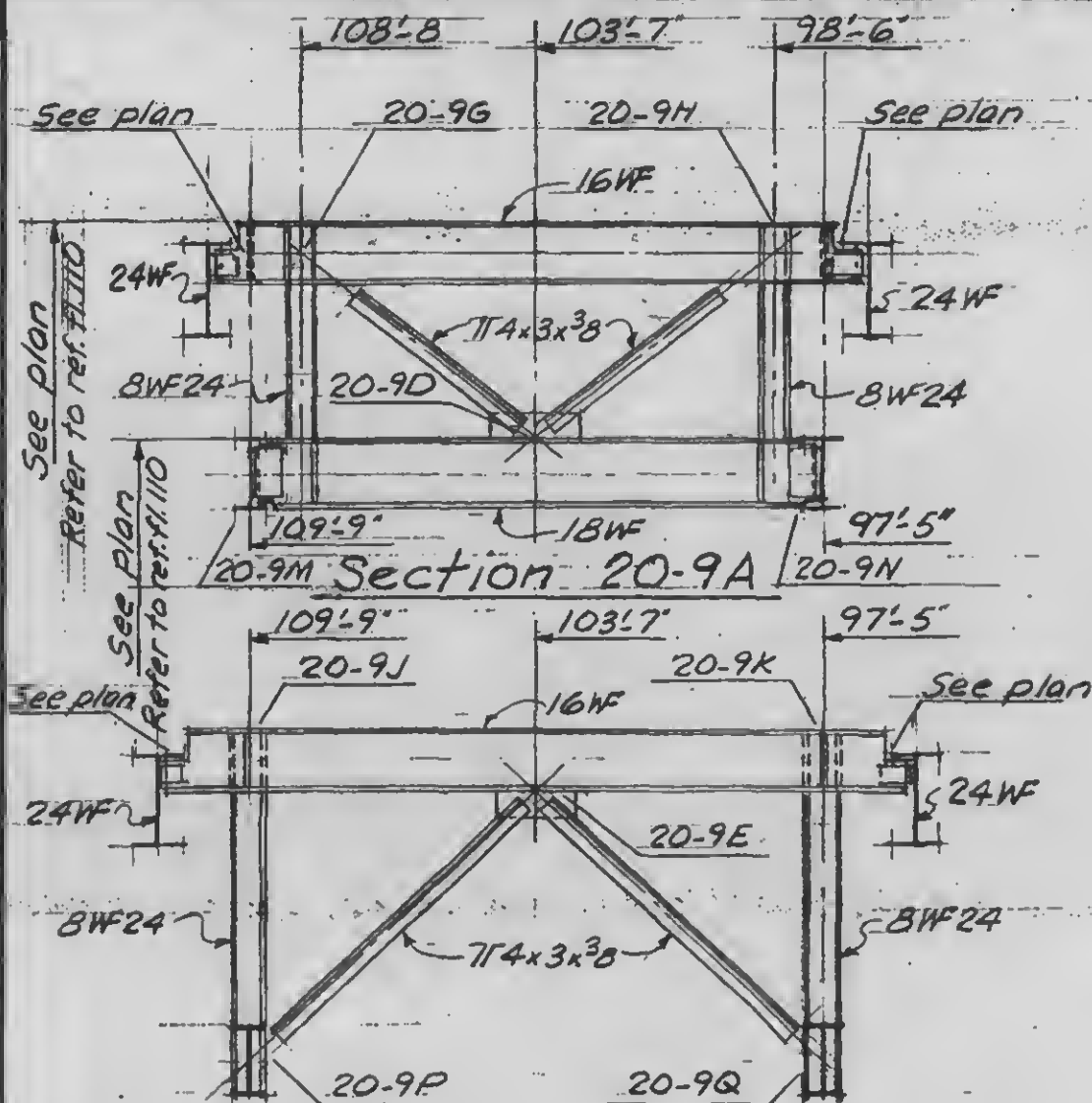
FL 107-PH

CONNECTION DETAILS-PH ROOF

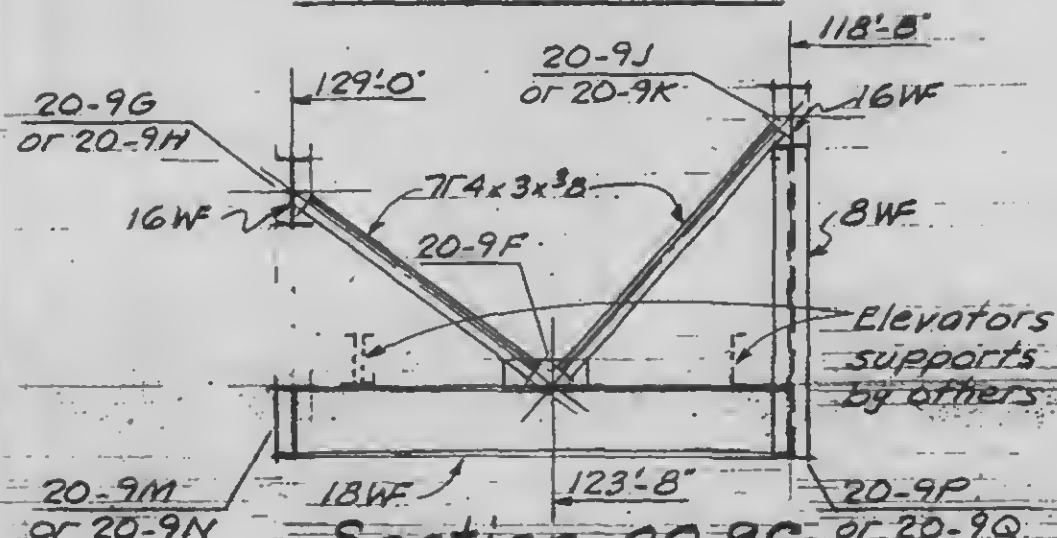
DATE _____

7-8-70

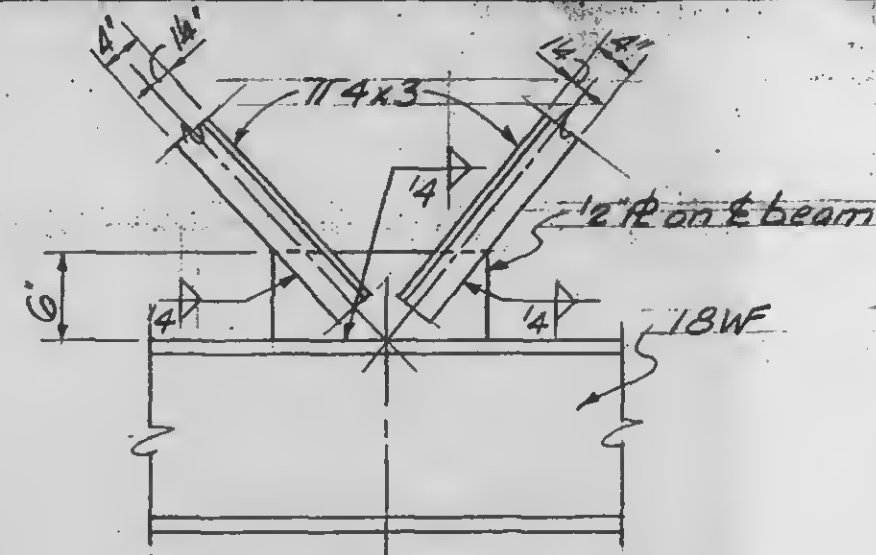
REVISIONS



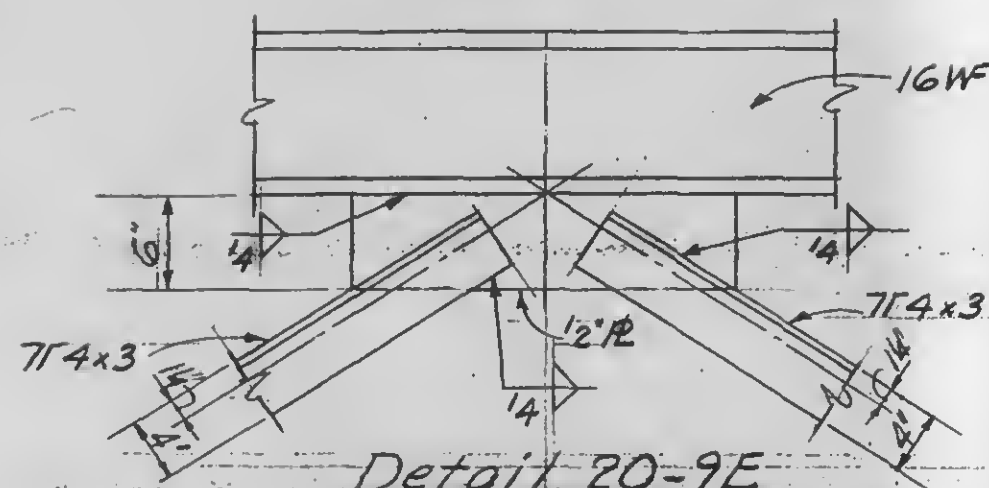
Section 20.9B



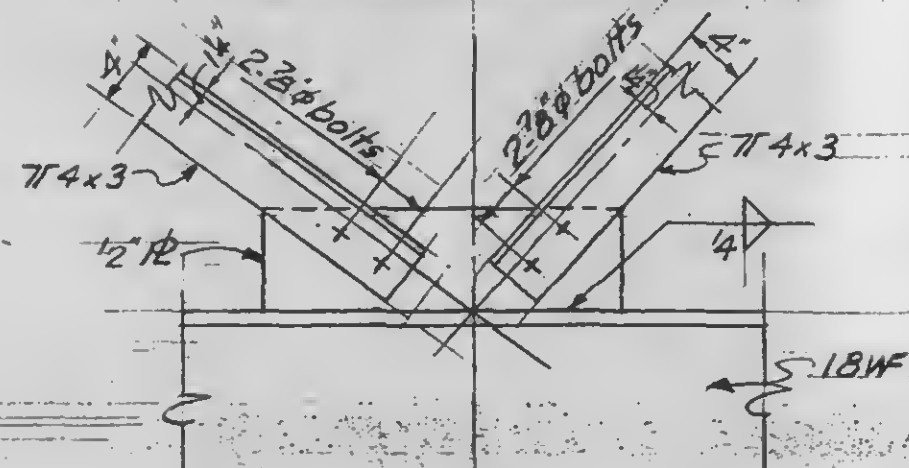
Section 20.9C



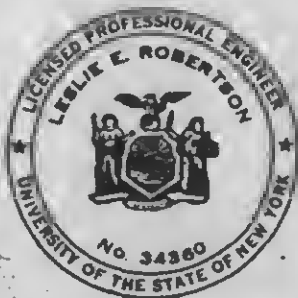
Detail 20-9D



Detail 20-9E



Detail 20-9F



DESIGNED

DRAWN

A. FRANQUIN

REVIEWED

9-AB20-97

PROJECT

THE WORLD TRADE CENTER

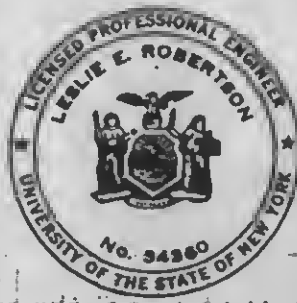
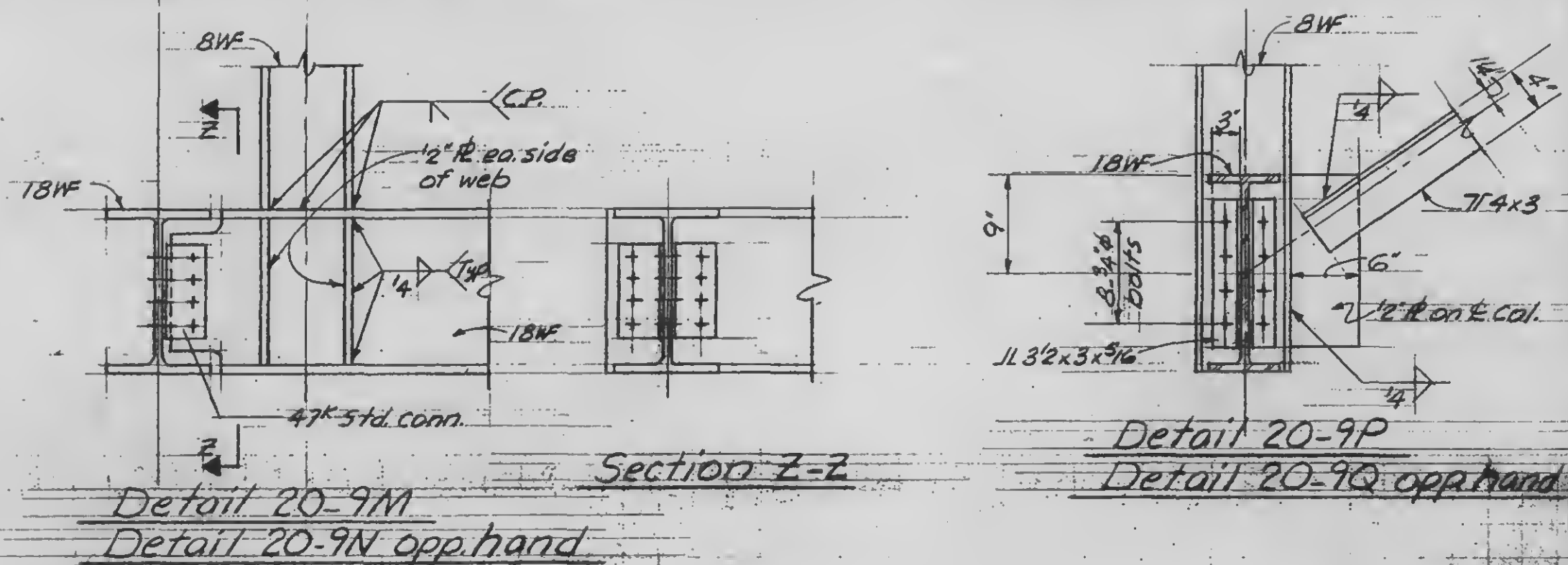
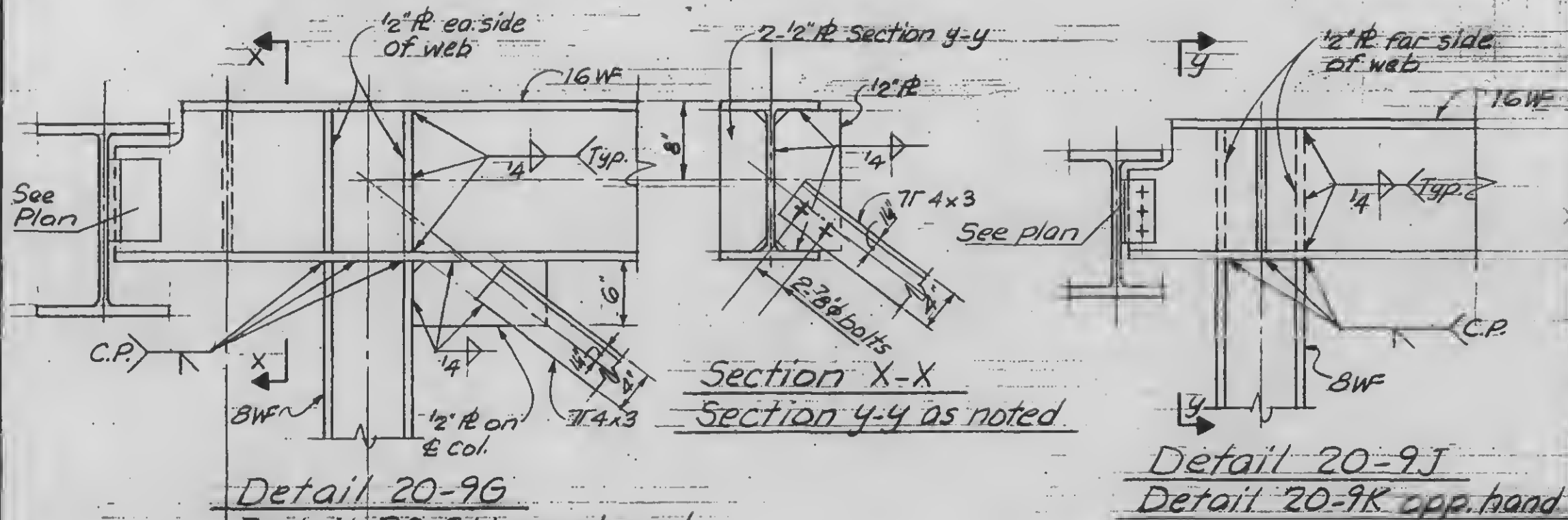
TITLE

FL.107-PH, CONNECTION DETAILS-PH. ROOF

DATE

7-8-10

REVISIONS



DESIGNED

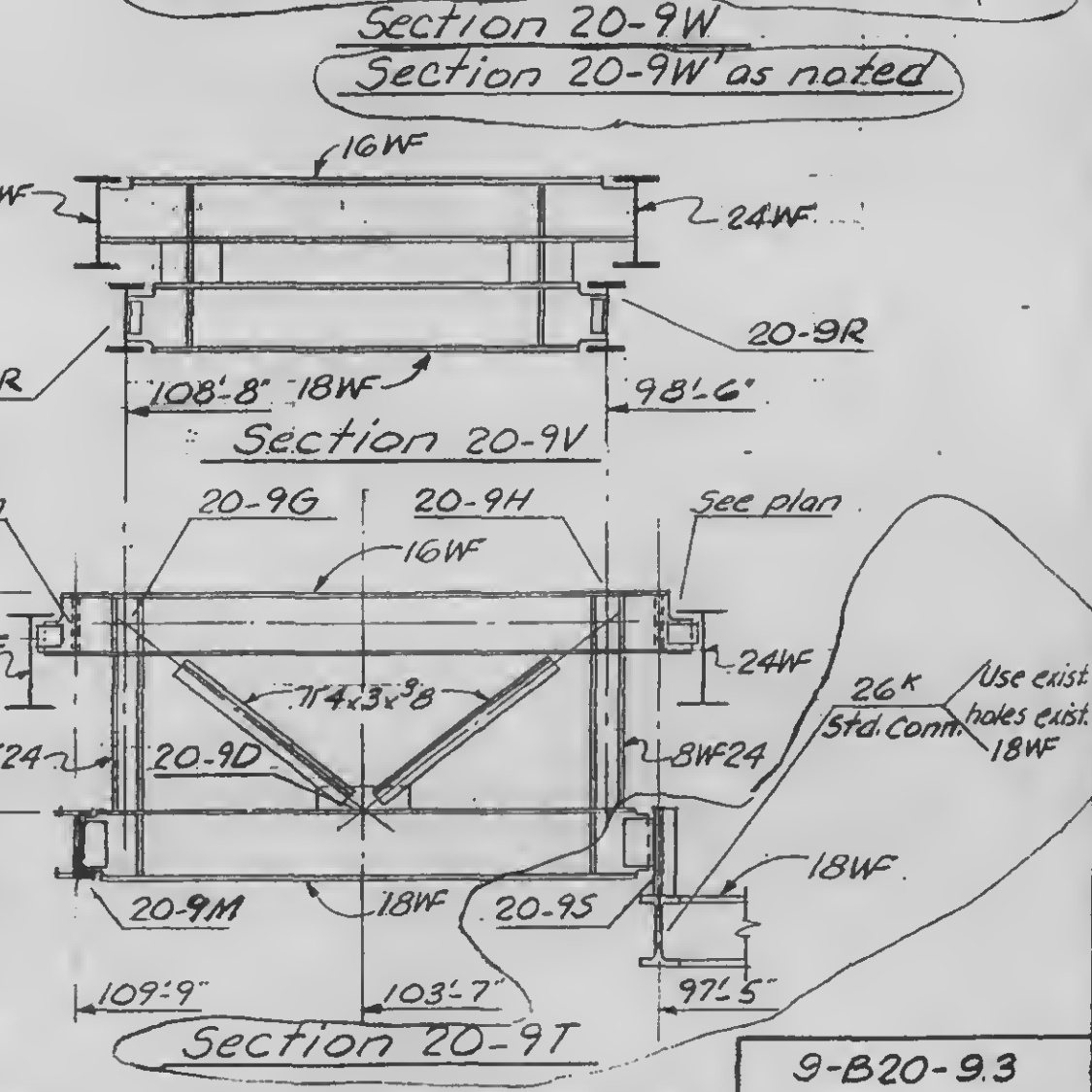
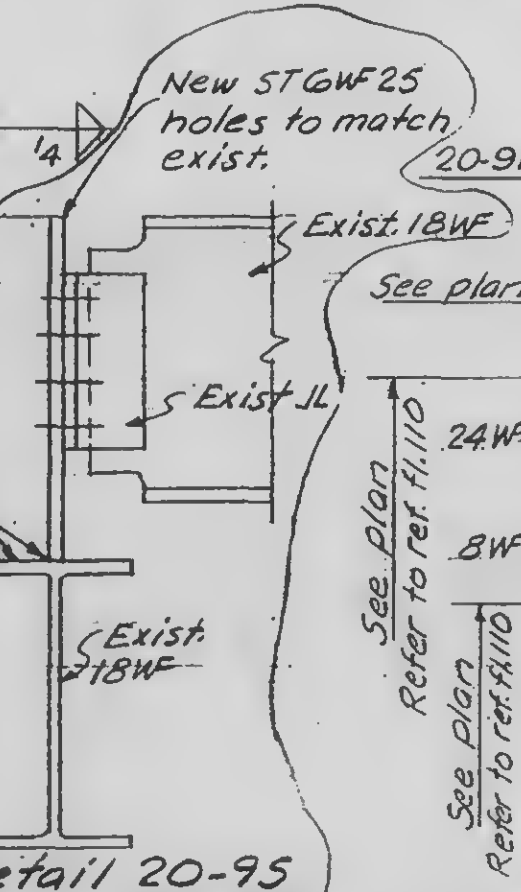
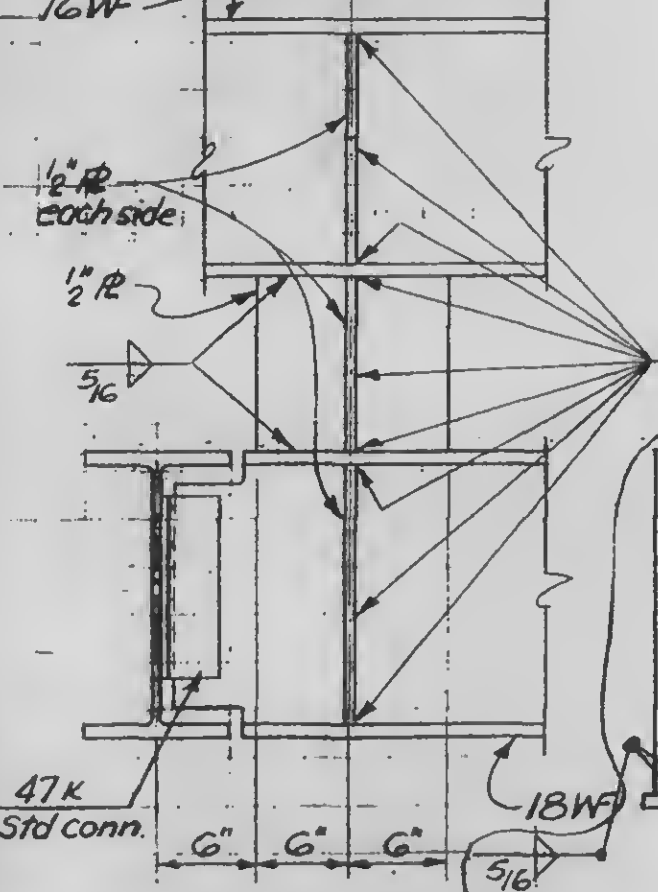
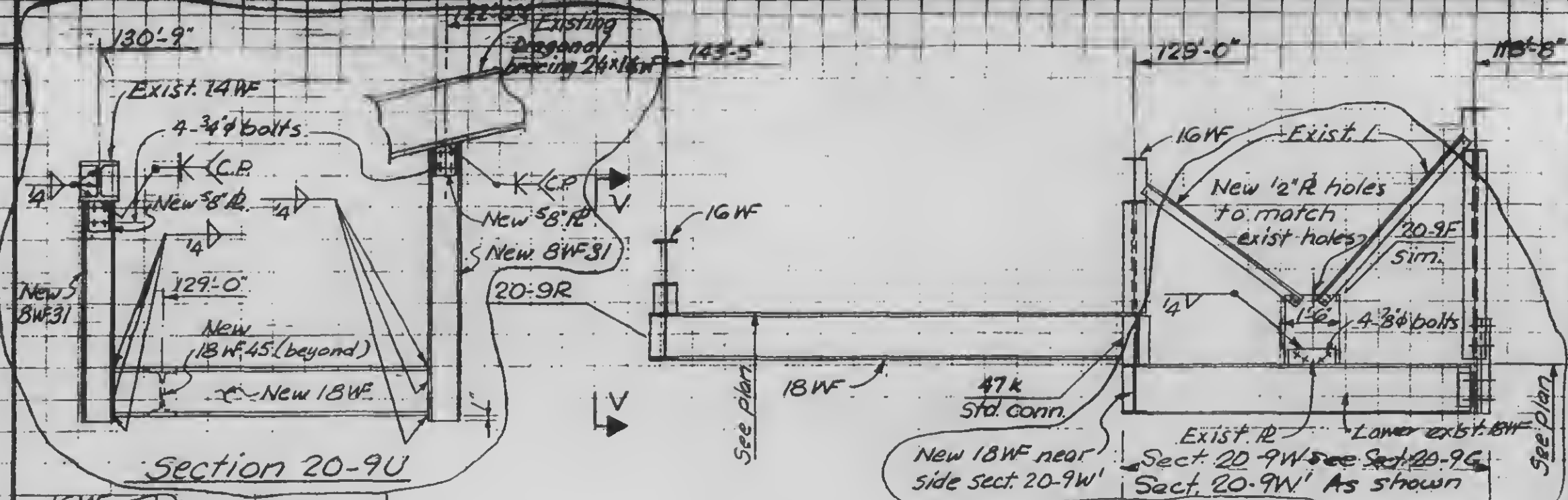
DRAWN
A. FRANQUI

REVIEWED

9-AB20-9.2

REVISIONS

9/27/79



DESIGNED

DRAWN S.C.

REVIEWED

9-B20-9.3

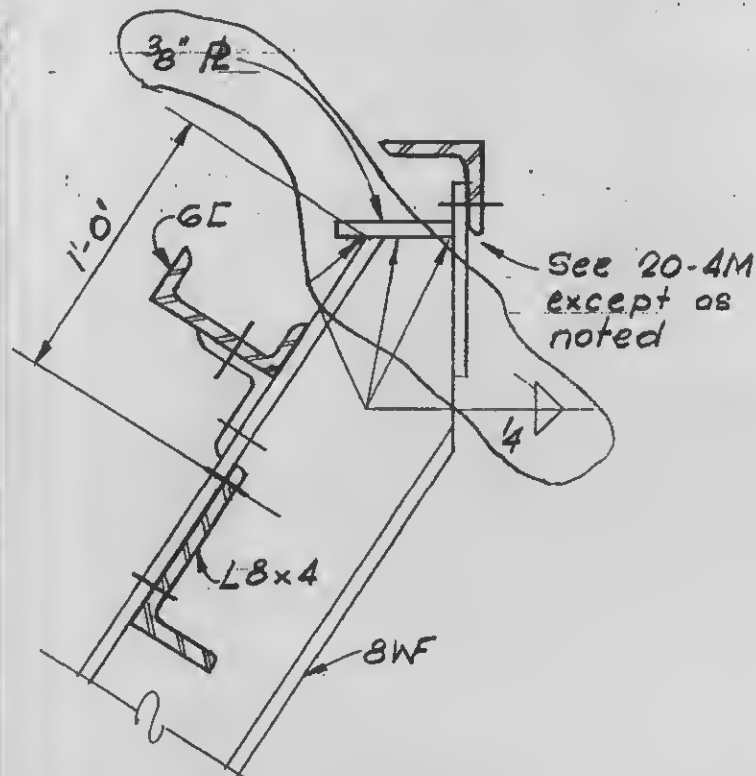
PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS-PH ROOF

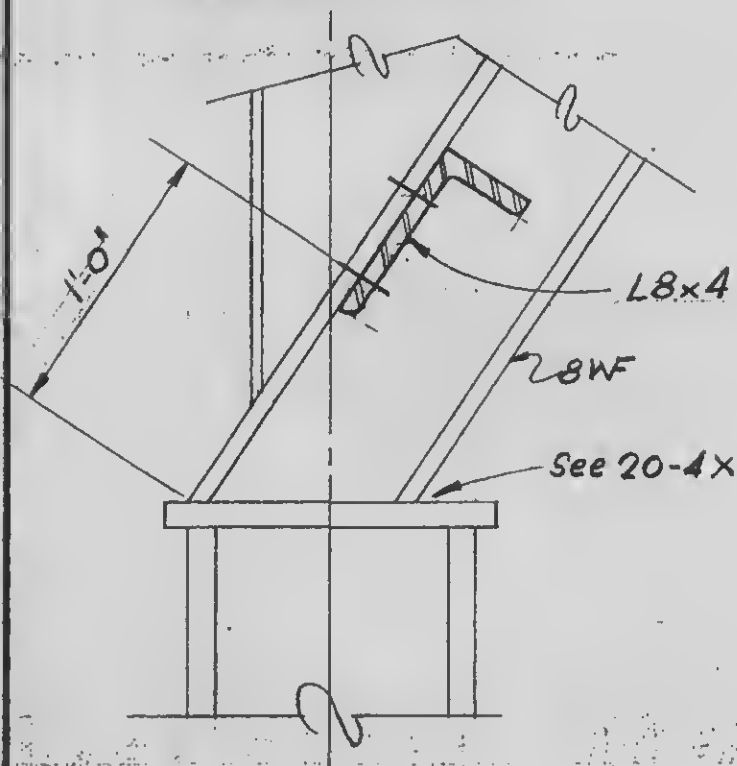
DATE 4-1-70

REVISIONS

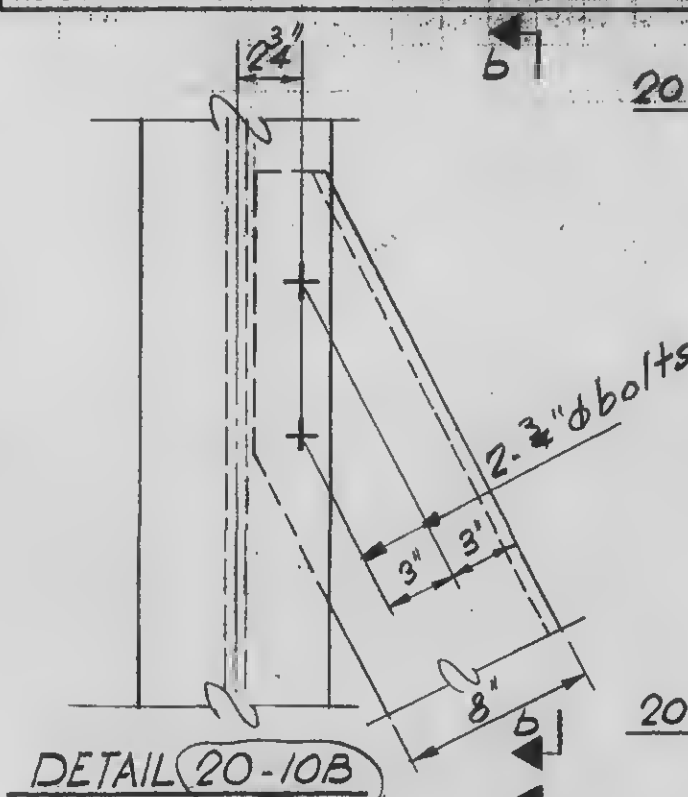
8/20/70



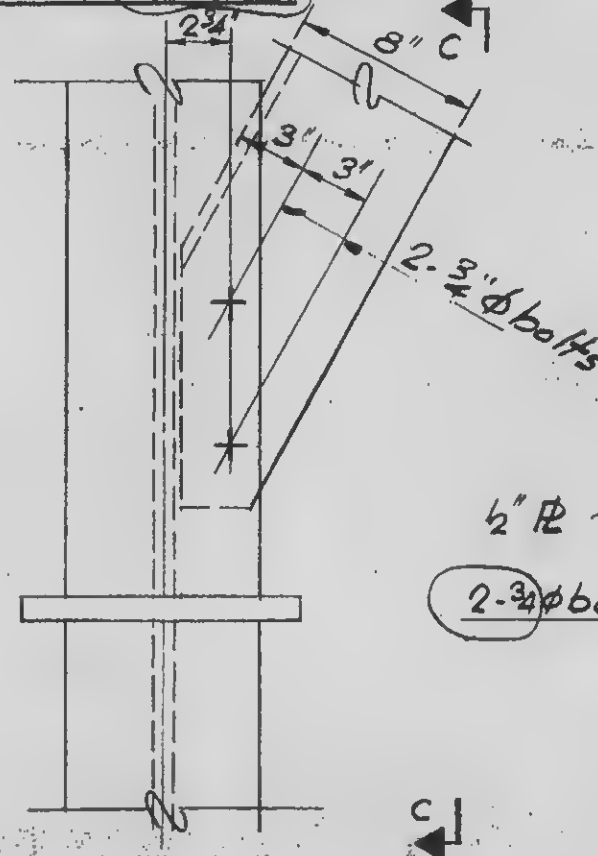
Section b-b



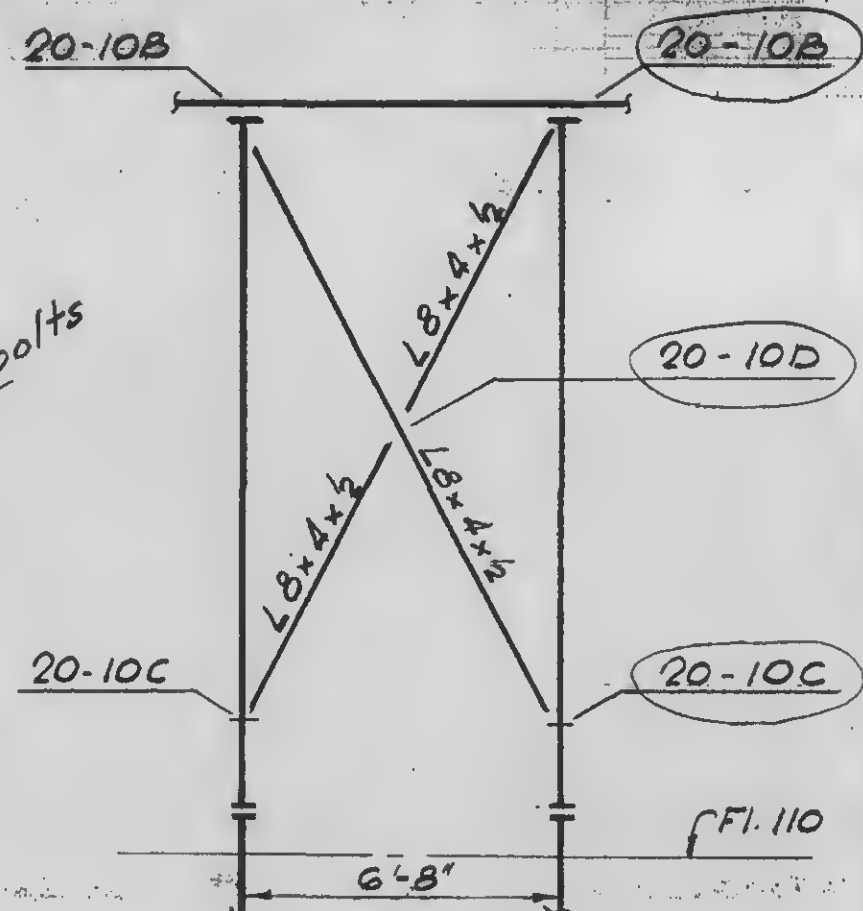
Section c-c



DETAIL 20-10B

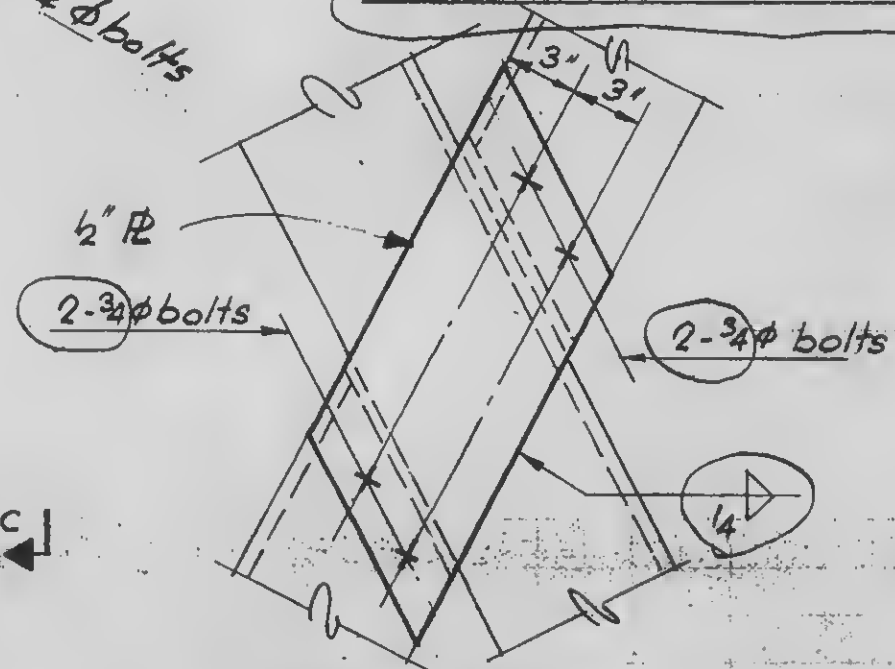


DETAIL 20-10C

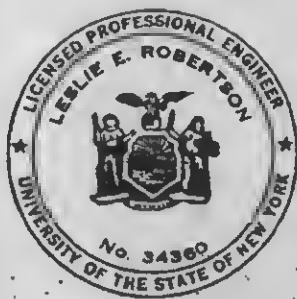


DETAIL 20-10A

See SA 120 & SB for location



DETAIL 20-10D



DESIGNED

DRAWN T. Terrelange

REVIEWED

9-AB 20-10

PREVIOUS

10/4/71

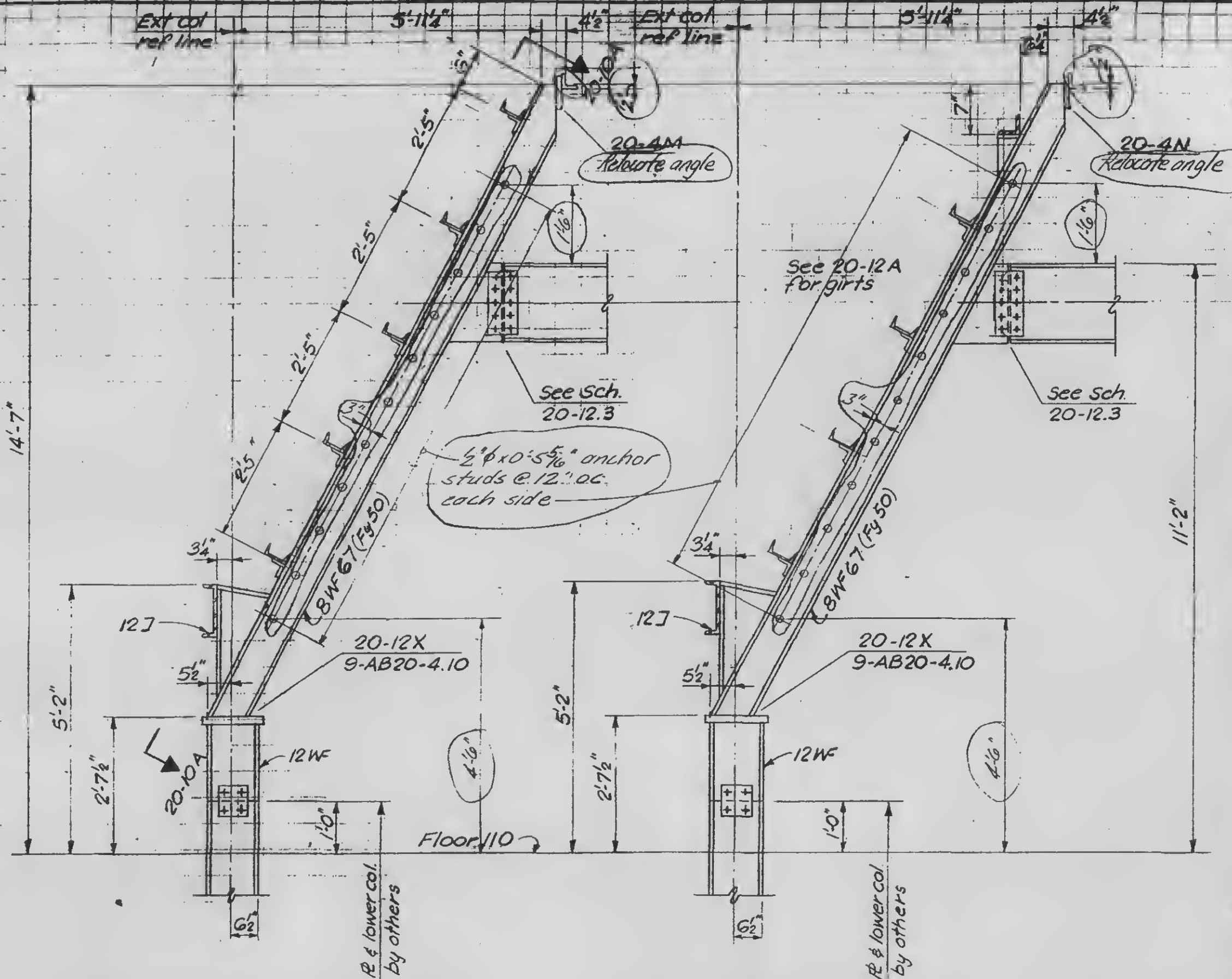
EXT COL
map line

 $5\frac{1}{2}^{\circ}$

Ext col
ref lin

5-112

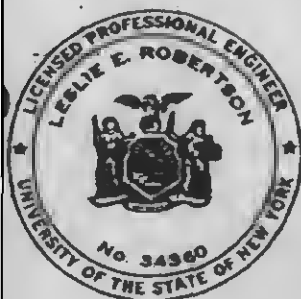
42



DETAIL 20-12A, 12B, 12C & 12G

DETAIL 20-12D, 12H & 12P

9-B20-12.1

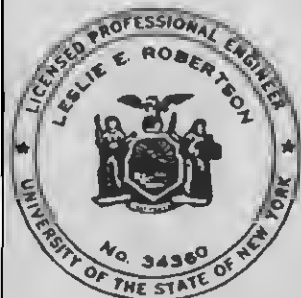
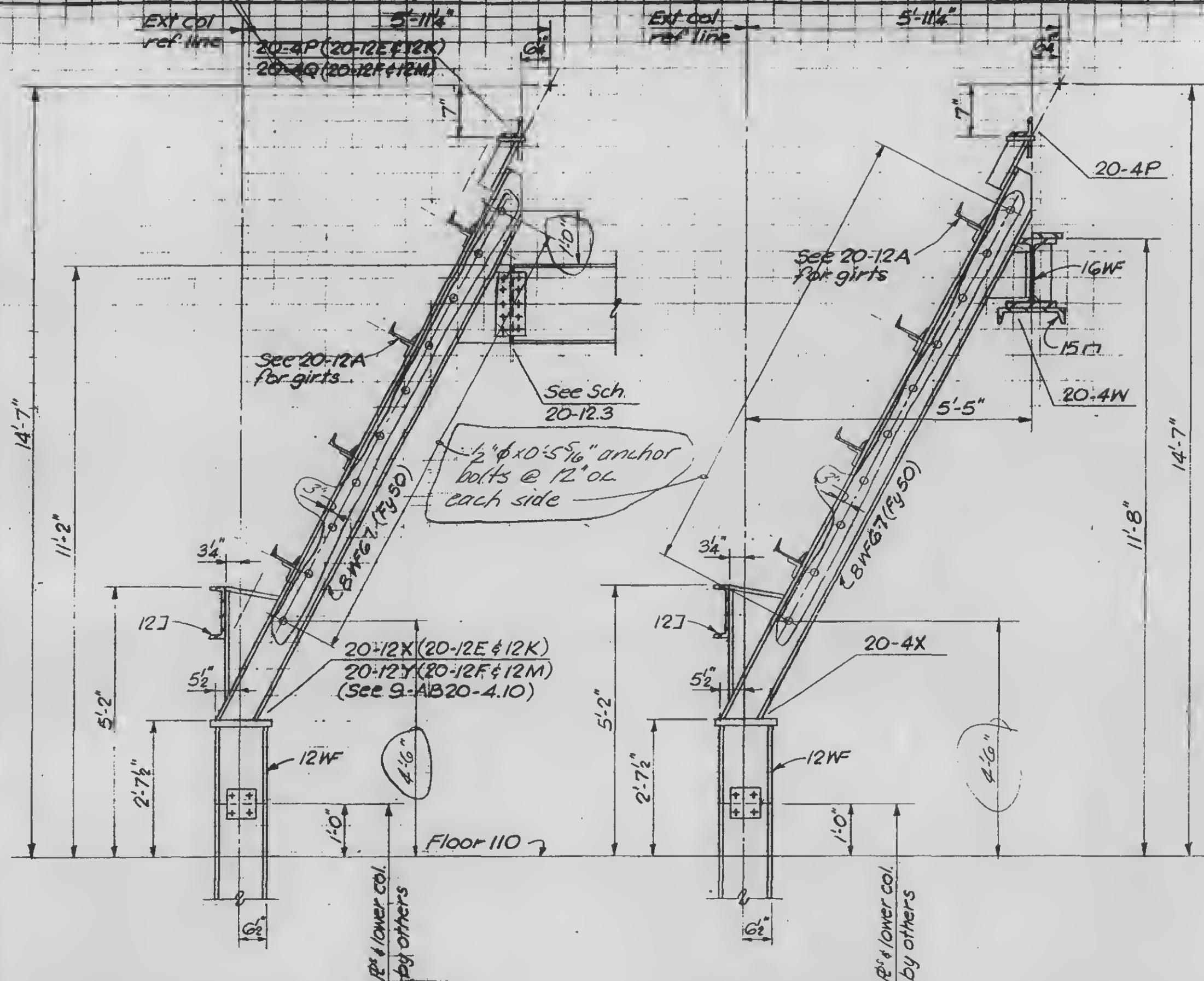


SIGNED

DRAWN
S.C.
REVIEWED

REVISIONS

10/4/71



DESIGNED

DRAWN
S.C.

REVIEWED

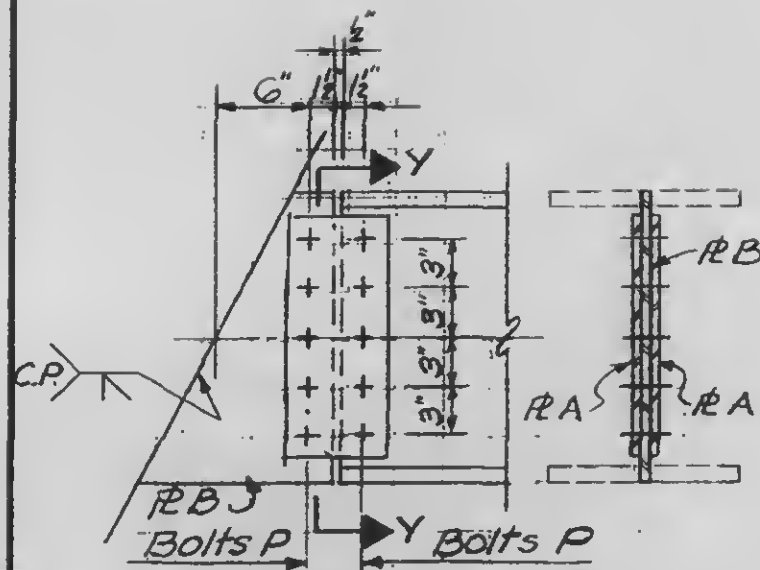
DETAIL 20-12E, 12F, 12M, 12M

DETAIL 20-12N

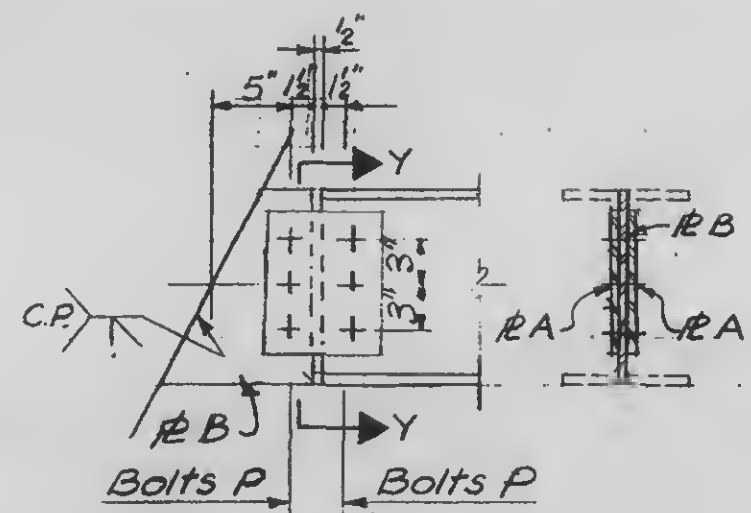
9-B 20-12.2

REVISIONS

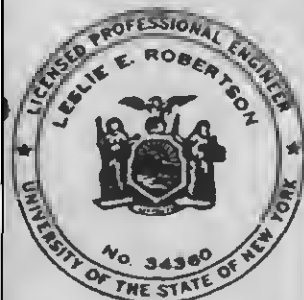
DET. NO.	ϕA	ϕB	BOLT P (A490)
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20-12B	$\frac{5}{16}$ "	$\frac{1}{2}$ "	5- $\frac{7}{8}$ " ϕ
20-12C	$\frac{5}{16}$ "	$\frac{1}{2}$ "	5- $\frac{7}{8}$ " ϕ
20-12D	$\frac{3}{8}$ "	$\frac{5}{8}$ "	5-1" ϕ
20-12E	$\frac{7}{16}$ "	$\frac{3}{8}$ "	3-1" ϕ
20-12F	$\frac{1}{4}$ "	$\frac{3}{8}$ "	3- $\frac{7}{8}$ " ϕ
20-12G	$\frac{5}{16}$ "	$\frac{3}{8}$ "	3- $\frac{7}{8}$ " ϕ
20-12H	$\frac{5}{16}$ "	$\frac{7}{16}$ "	3-1" ϕ
20-12K	$\frac{7}{16}$ "	$\frac{1}{2}$ "	3-1" ϕ
20-12M	$\frac{1}{4}$ "	$\frac{3}{8}$ "	3- $\frac{7}{8}$ " ϕ
20-12P	$\frac{3}{8}$ "	$\frac{5}{8}$ "	5-1" ϕ



Elevation Sect. Y-Y
(For Det. Nos 20-12A thru 12D & 12P)



Elevation Sect. Y-Y
(For Det. Nos 20-12E, 20-12F, 20-12G,
20-12H, 20-12K & 20-12M)



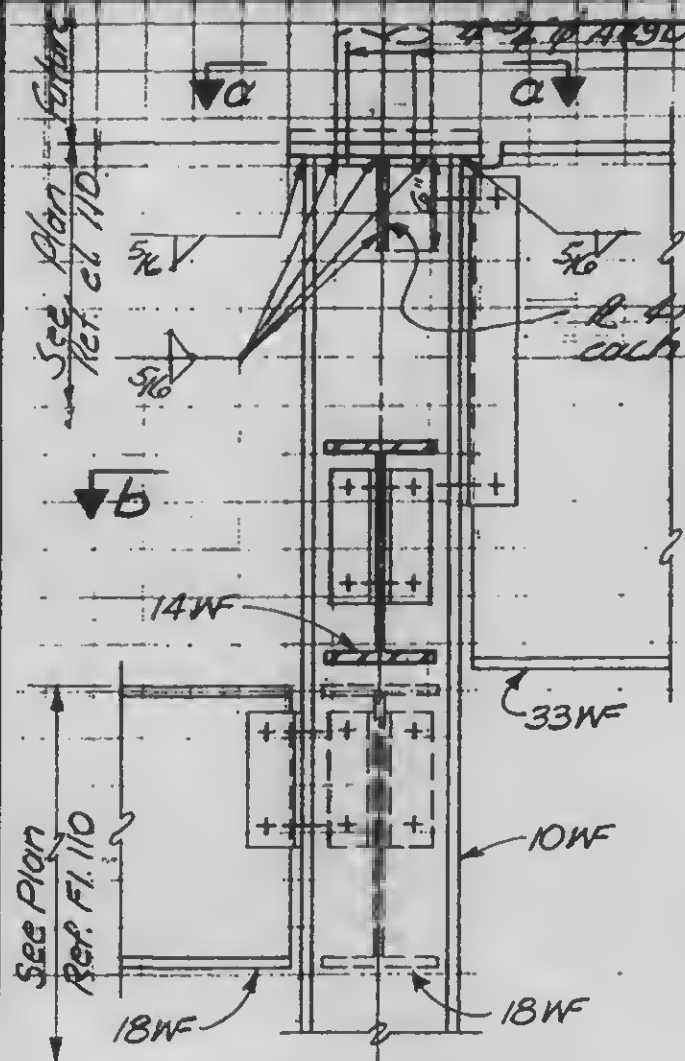
DESIGNED

DRAWN
S.C.

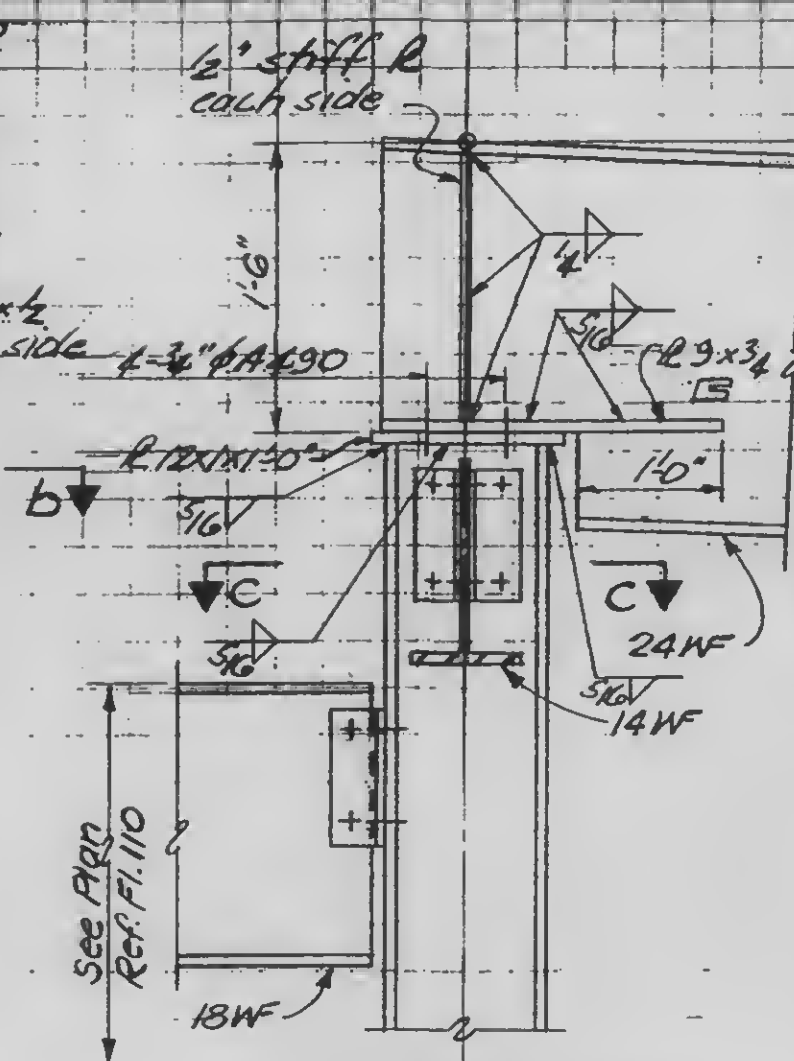
REVIEWED

9-B20-12.3

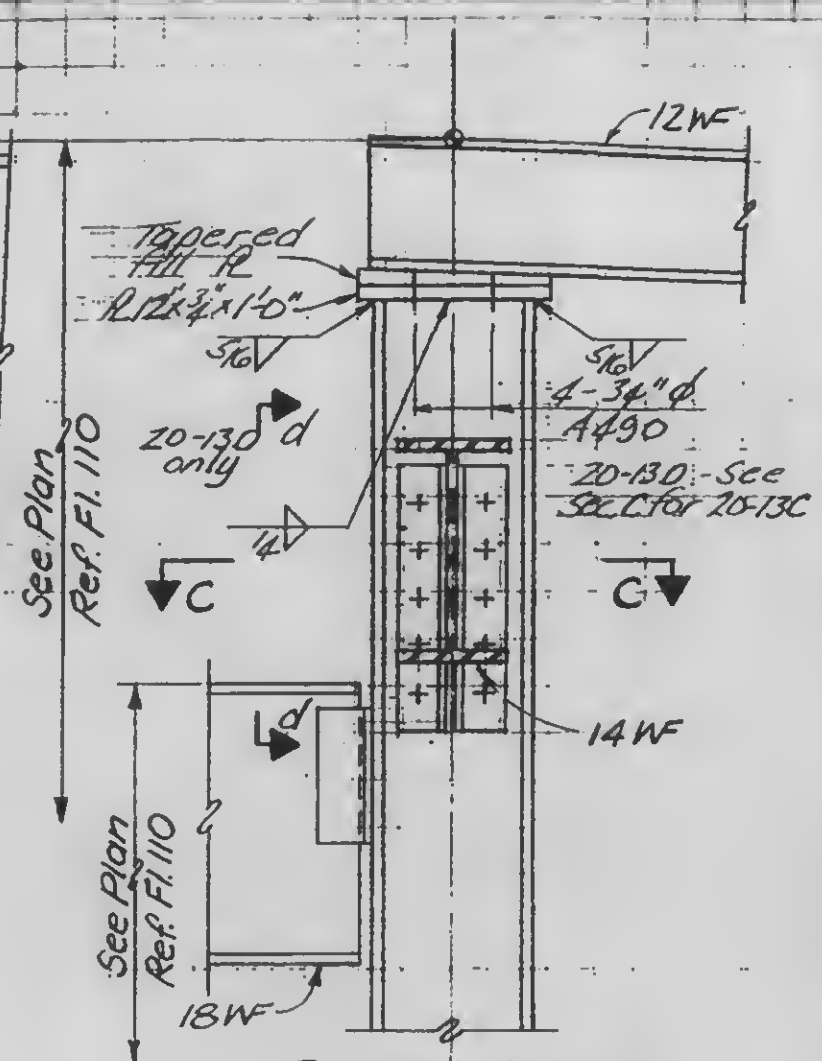
REVISIONS



DETAIL 20-13A

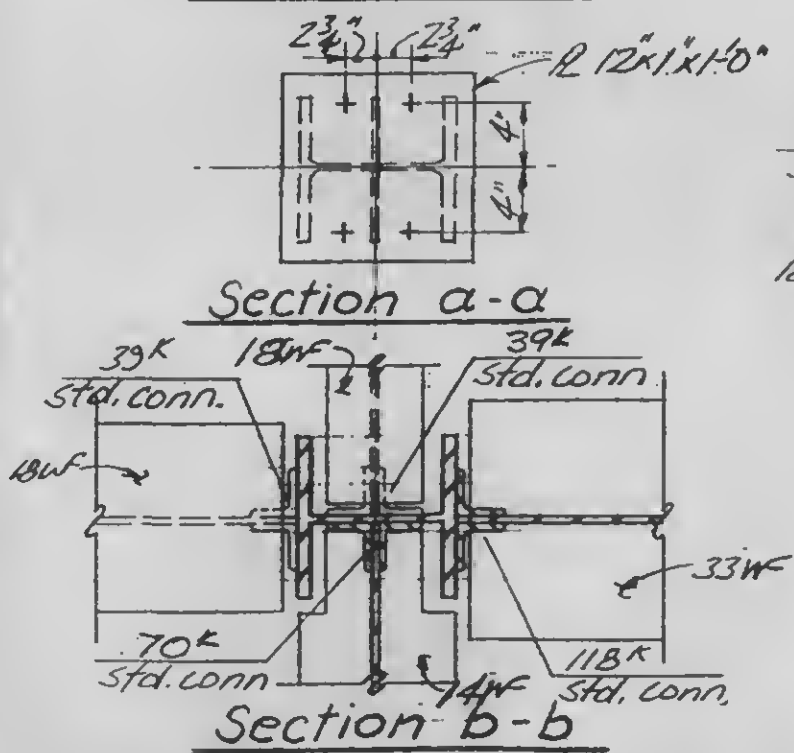


DETAIL 20-13B



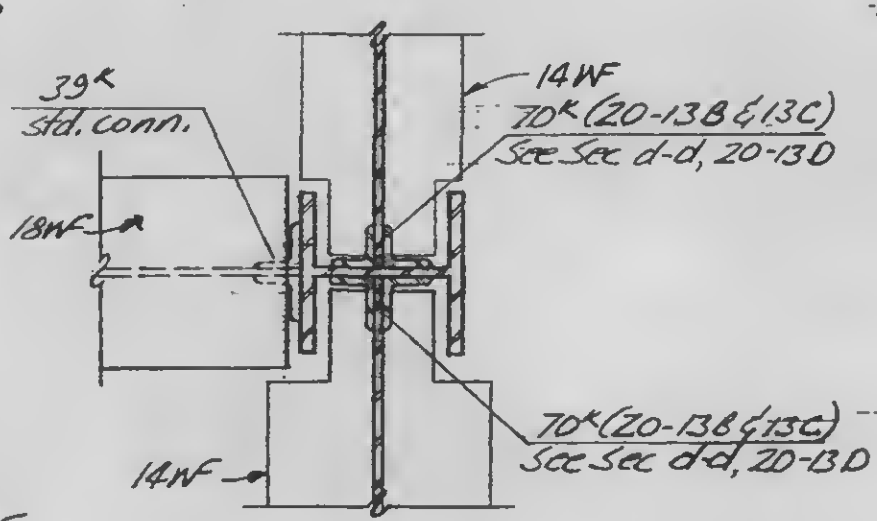
DETAIL 20-13C

DETAIL 20-13D as noted

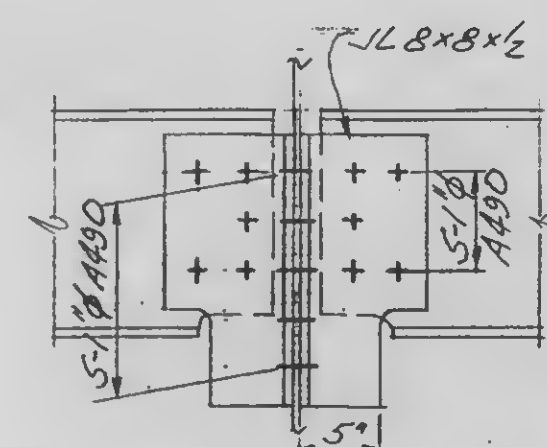


Section a-a

Section b-b

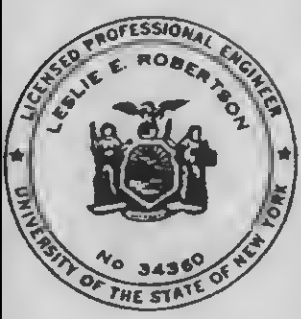


Section c-c



Section d-d
20-13D only

9-B20-13.1

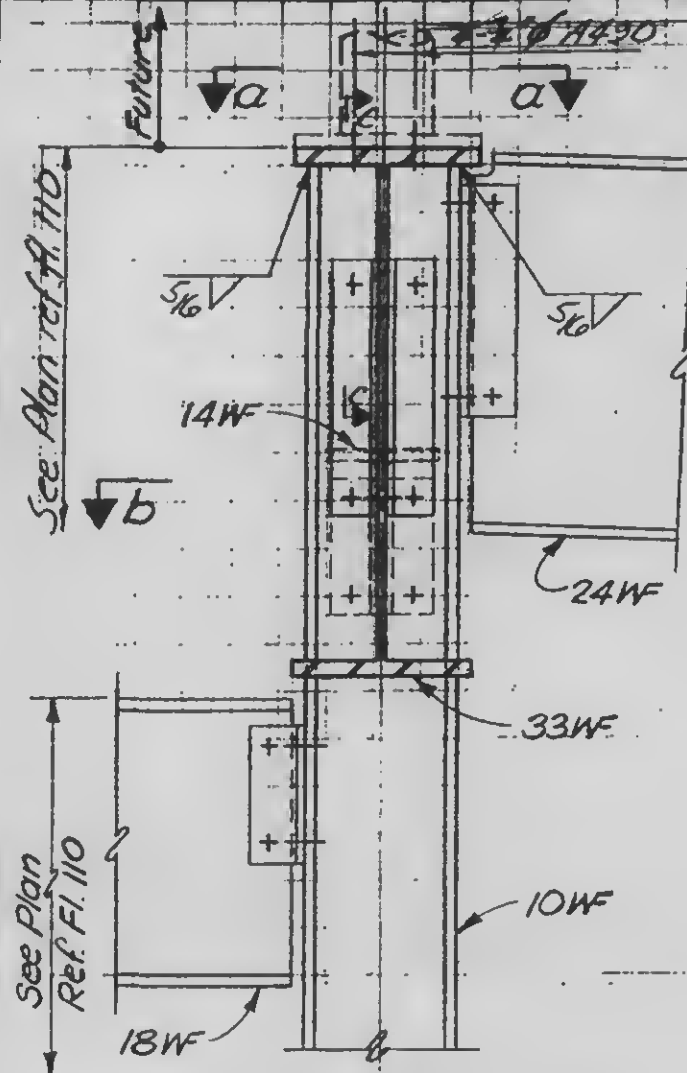


DESIGNED

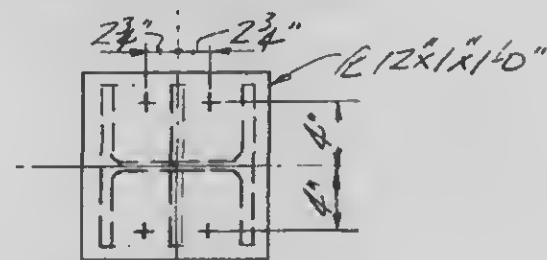
DRAWN

REVIEWED

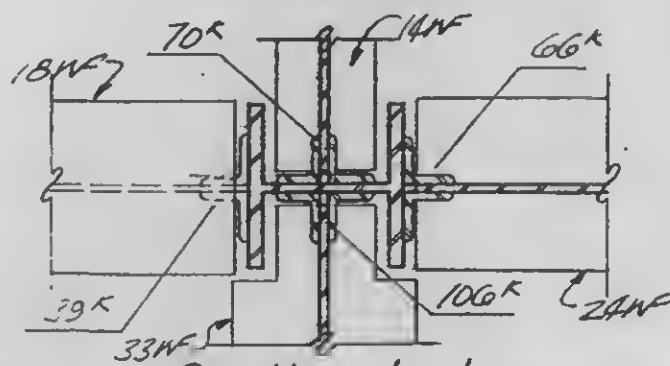
REVISIONS



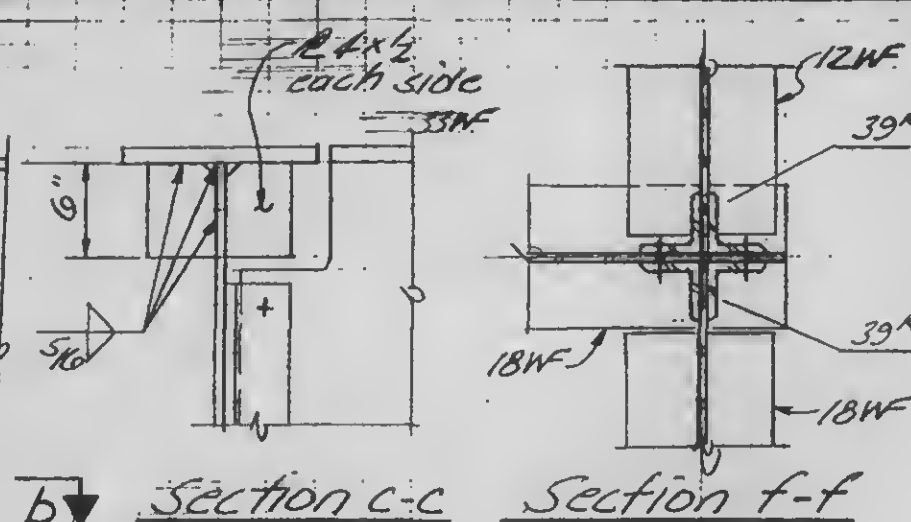
DETAIL 20-13E



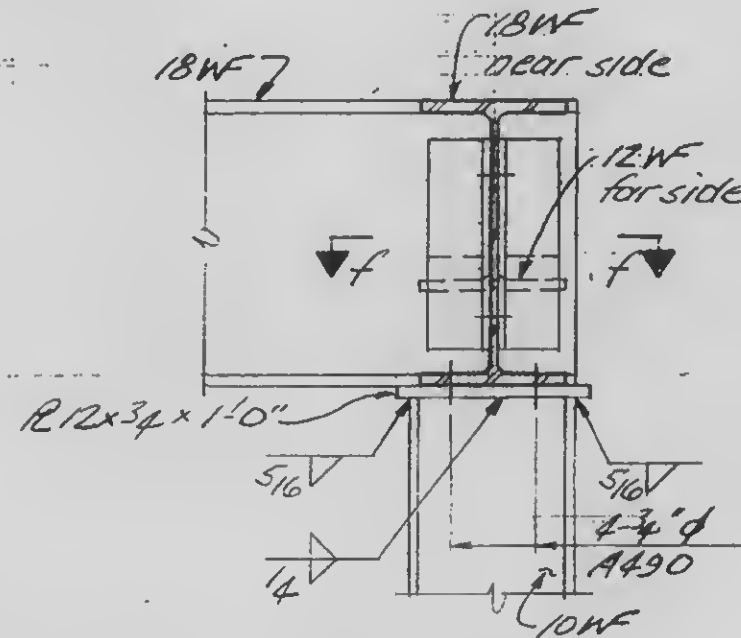
Section a-a



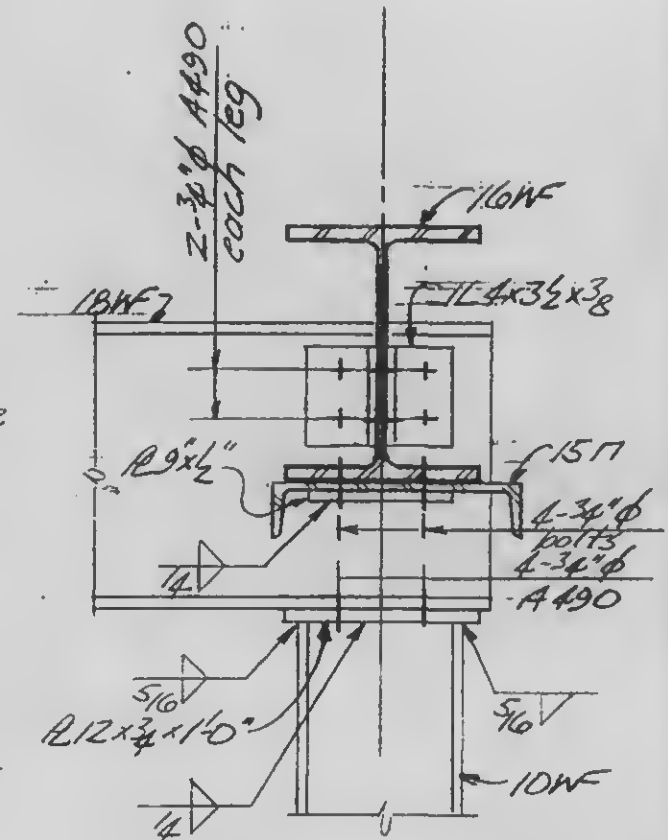
Section b-b



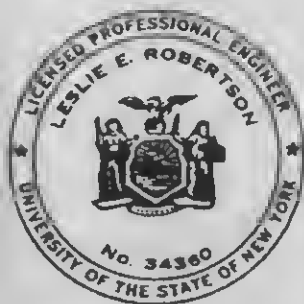
Section c-c Section f-f



DETAIL 20-13F



DETAIL 20-13G



DESIGNED

DRAWN

S.C.

REVIEWED

9-B20-13.2

REVISIONS

Cope top flange
of 33 WF

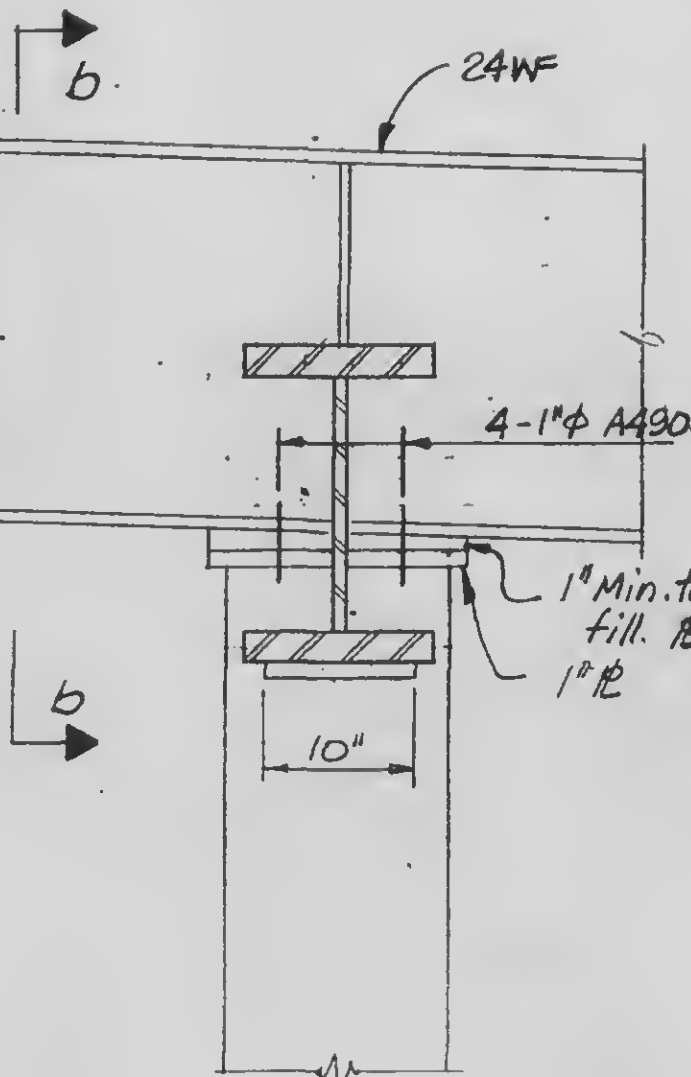
1L 4x3 1/2 x 1/2

6-1" φ A490
each leg

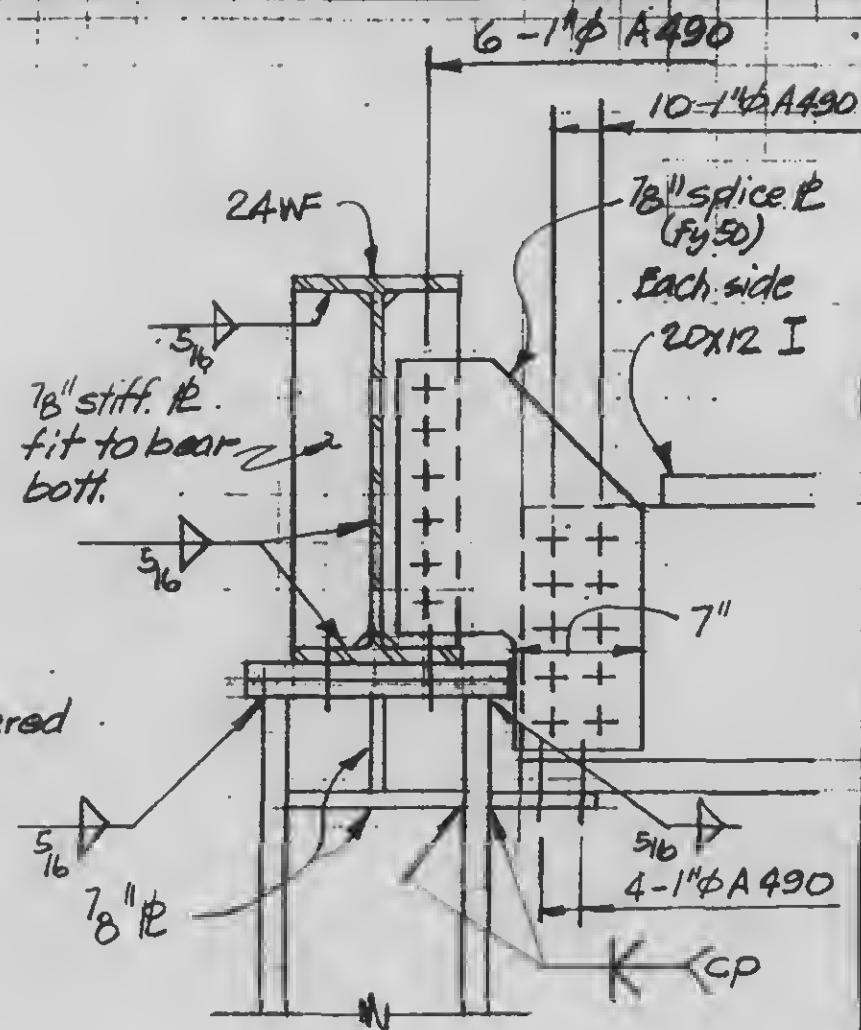
33 WF

24 WF

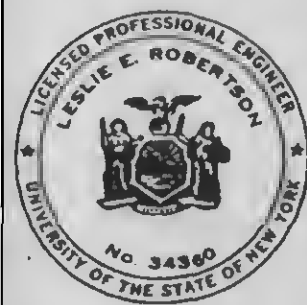
Detail 20-14A



Detail 20-14B



Section b-b



DESIGNED

DRAWN

REVIEWED

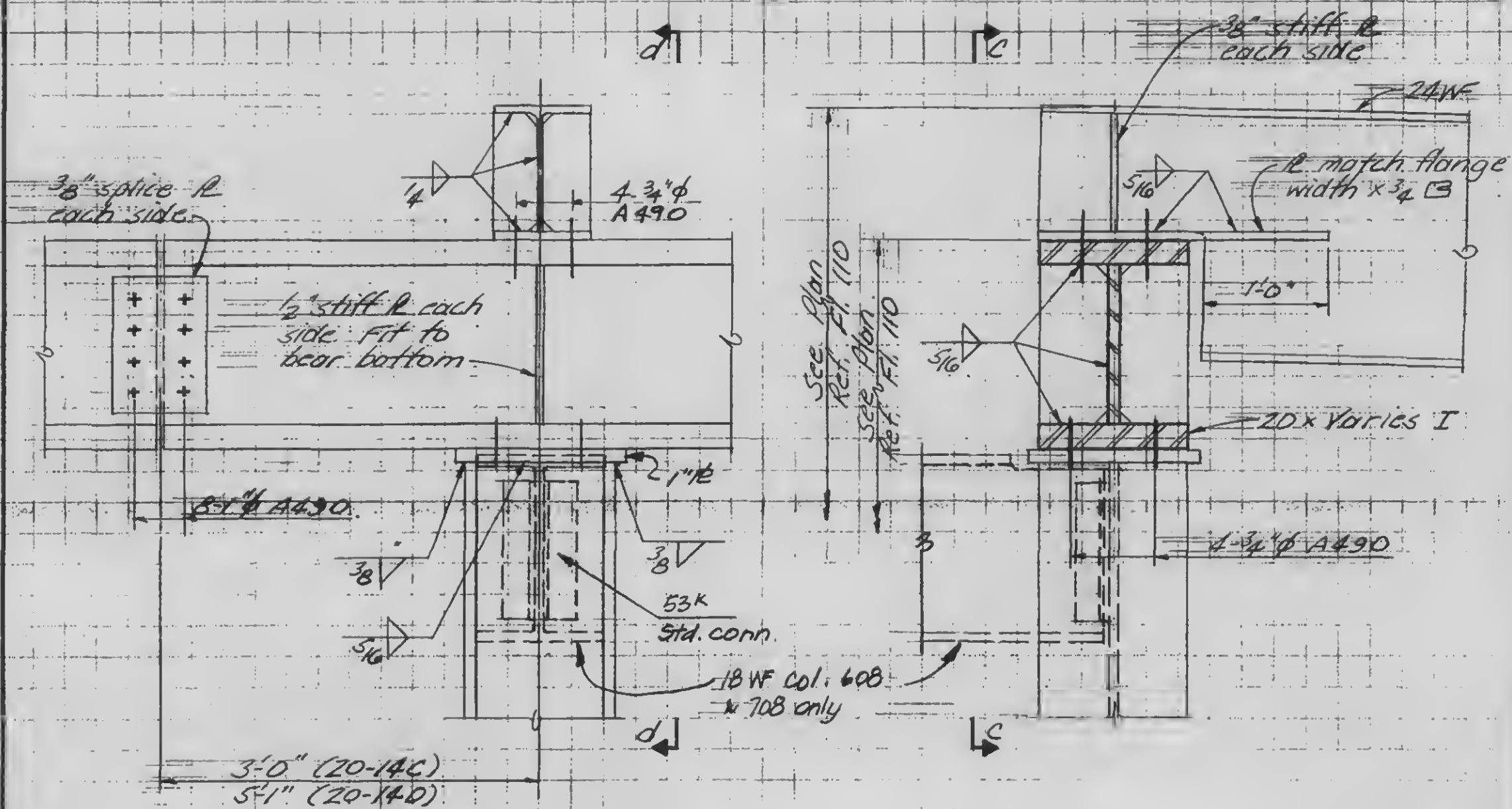
9-B20-14.1

PROJECT THE WORLD TRADE CENTER

TITLE FL 107 PH CONNECTION DETAILS - PH ROOF

DATE 12/21/70

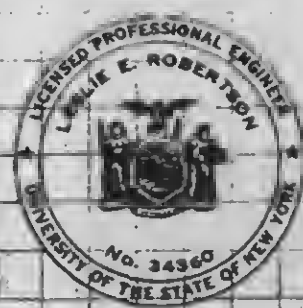
REVISIONS



Section C-C

Section D-D

Detail 14C & 14D



DESIGNED
BY J. H. H. H.
REVIEWED

9-B20-14.2

Structural & Civil Engineers

PROJECT

THE WORLD TRADE

SKILLING RO
HELLE
CHRISTIANSEN
ROBERTSON

TITLE

PROJECT

7.101-FIN CONVERSION DETAILS

DATE _____

Sheet No. _____

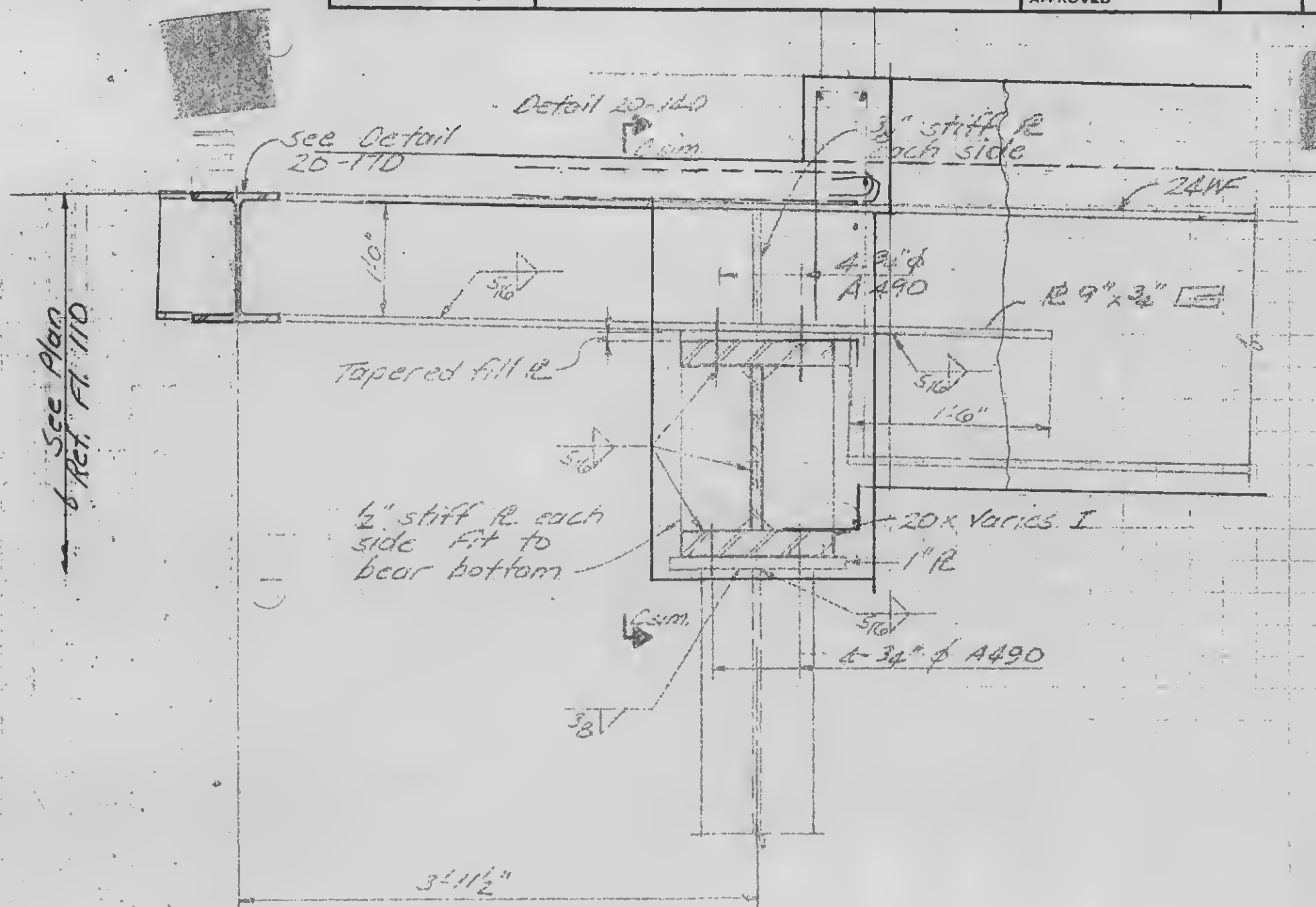
17

12/21/70

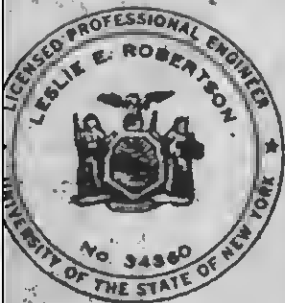
PREPARED BY

APPROVED

REVISIONS



Detail 20-14E

**FINED**

DRAWN

REVIEWED

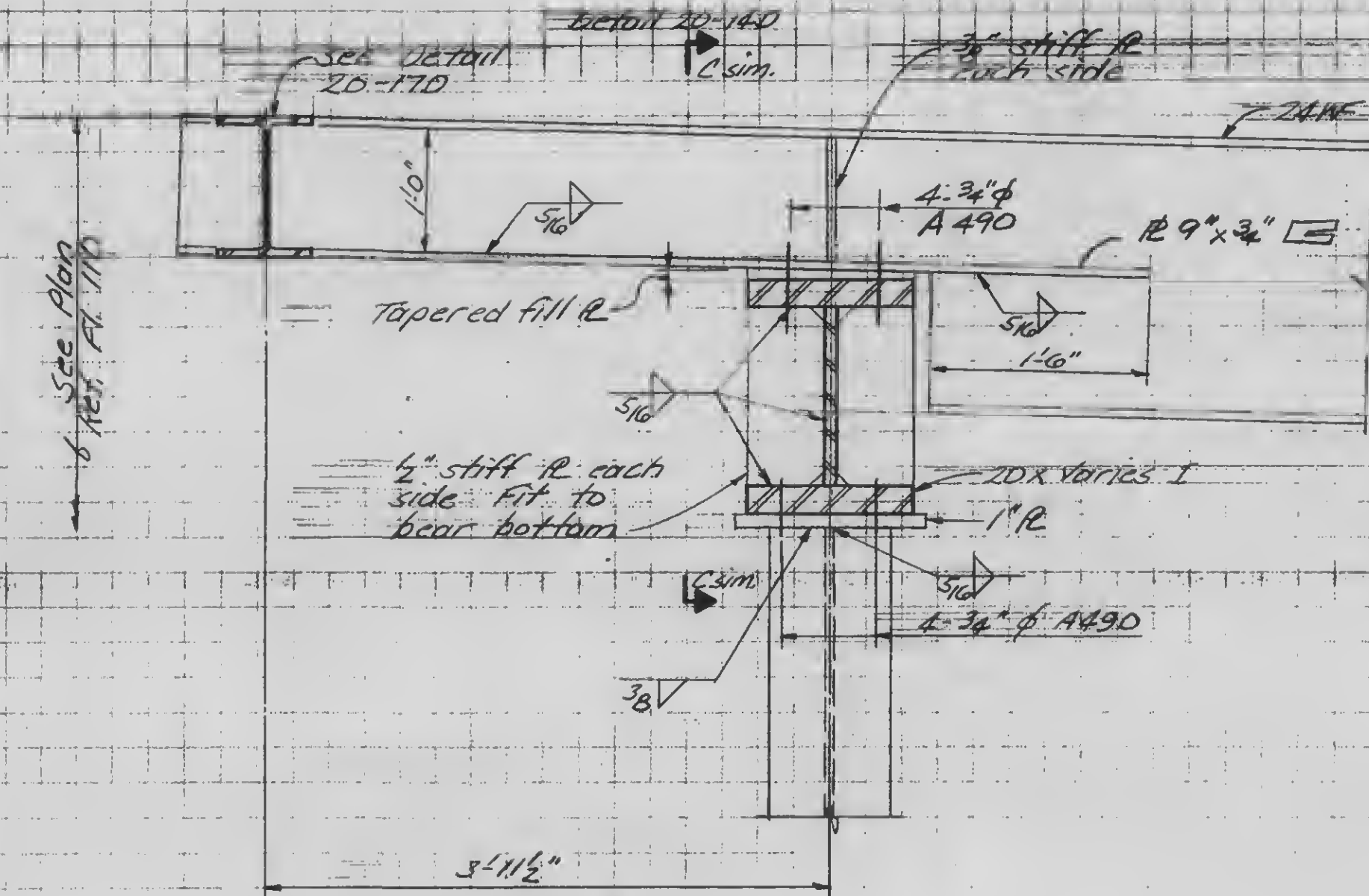
9-820-143

PROJECT THE WORLD TRADE CENTER

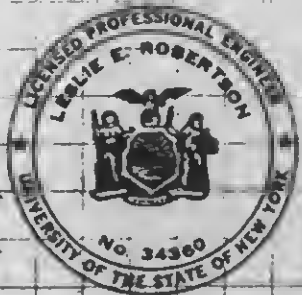
TITLE FL 107 PH CONNECTION DETAILS - PH ROOF

DATE 12/21/70

REVISIONS



Detail 20-14E

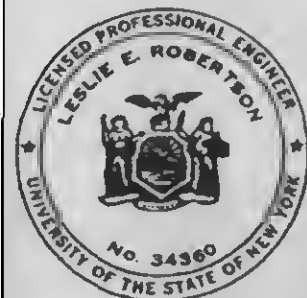


DESIGNED

DRAWN
H. Adams
REVIEWED

9-820-123

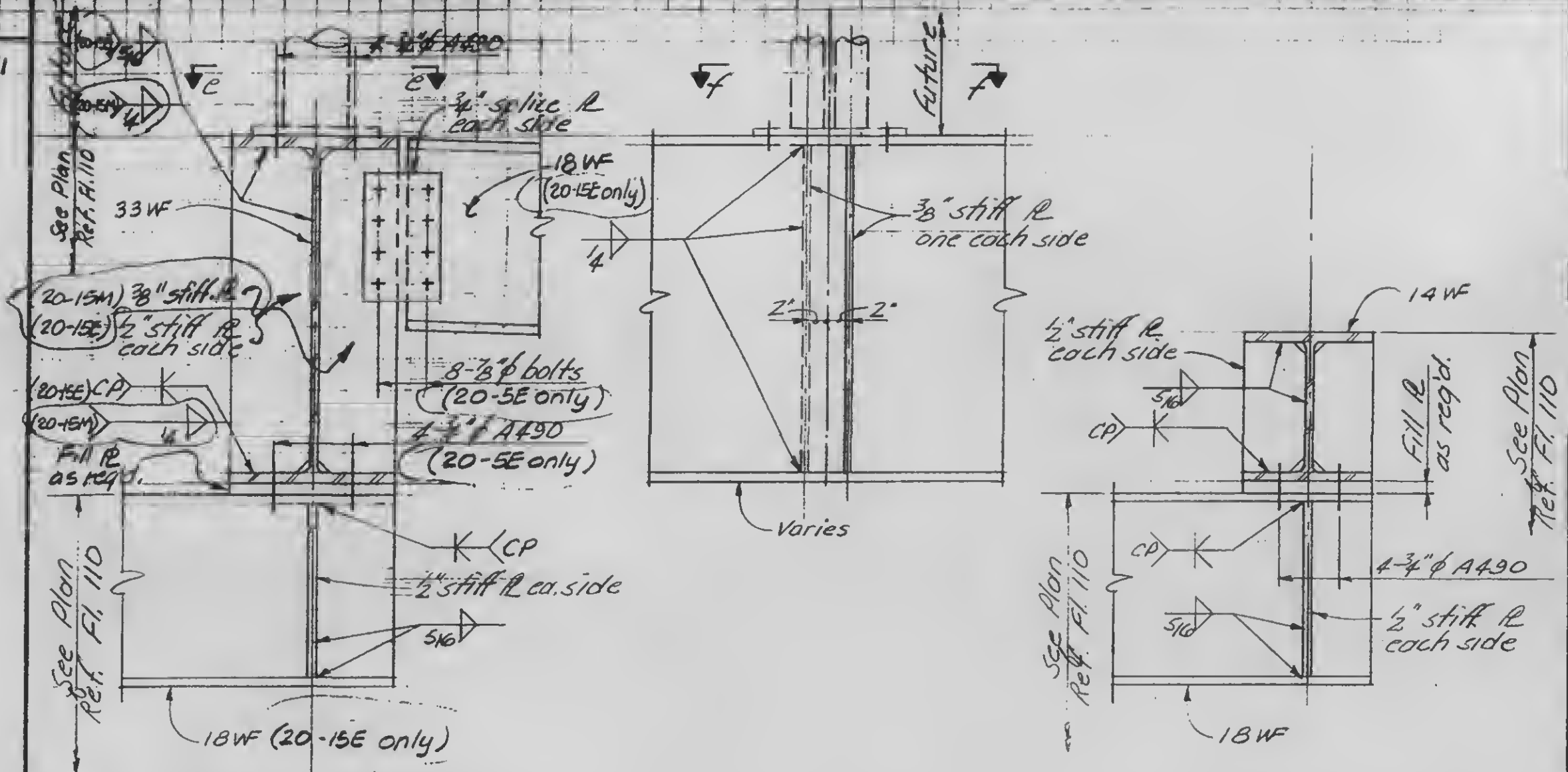
9-B20-15.1



REVIEWED

REVISIONS

3-5-71

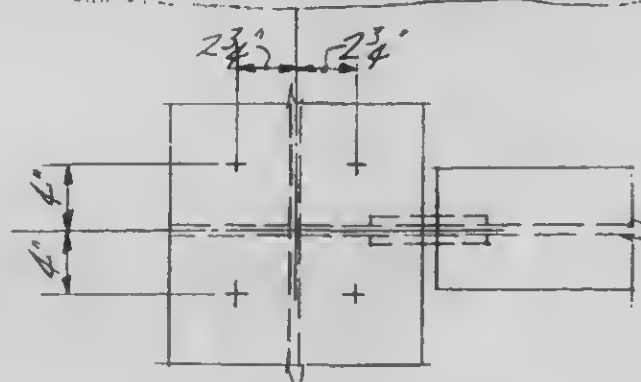


Detail 20-15E

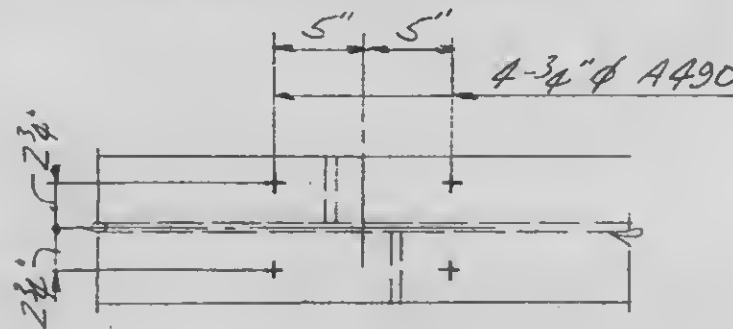
Detail 20-15Mas noted

Detail 20-15F

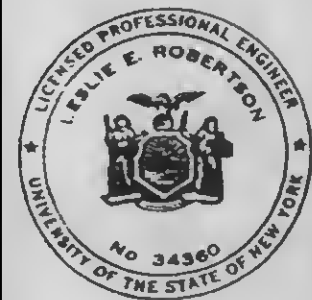
Detail 20-15G



Section e-e



Section f-f

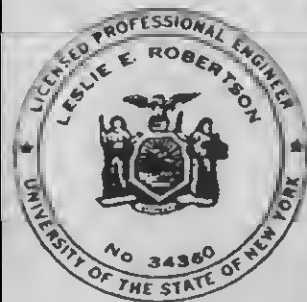
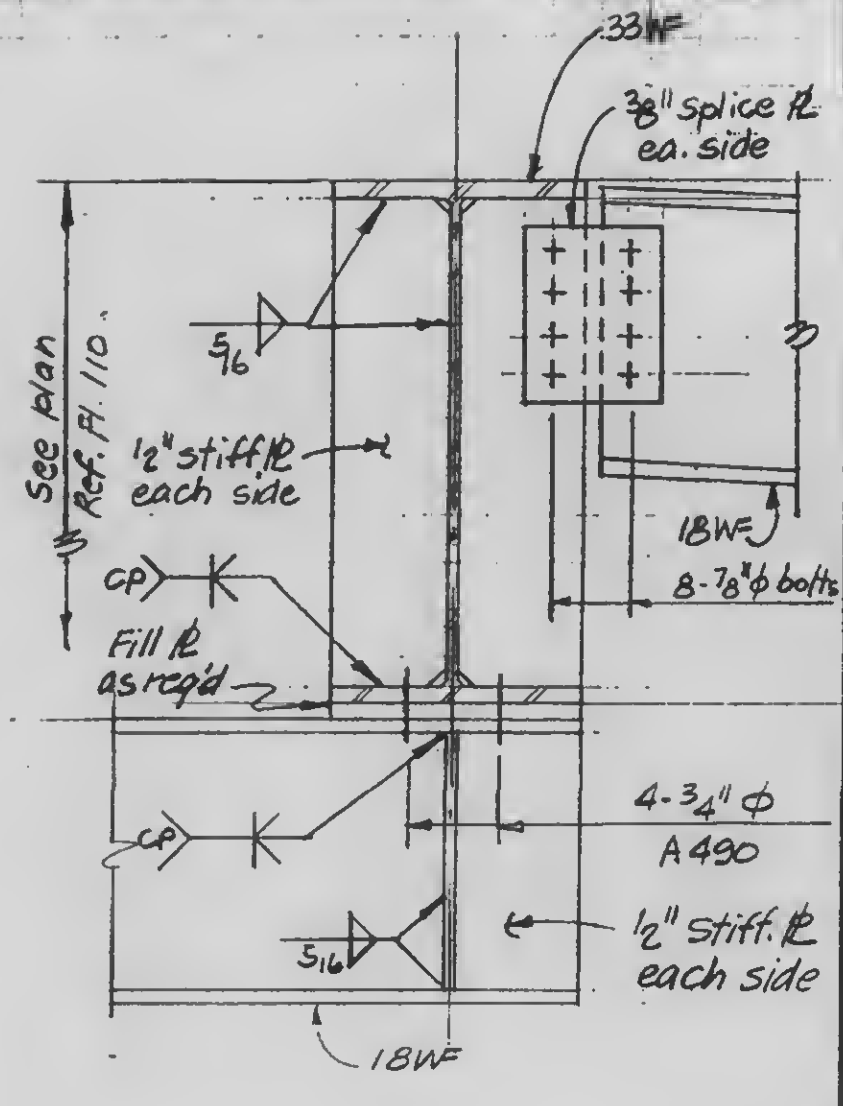
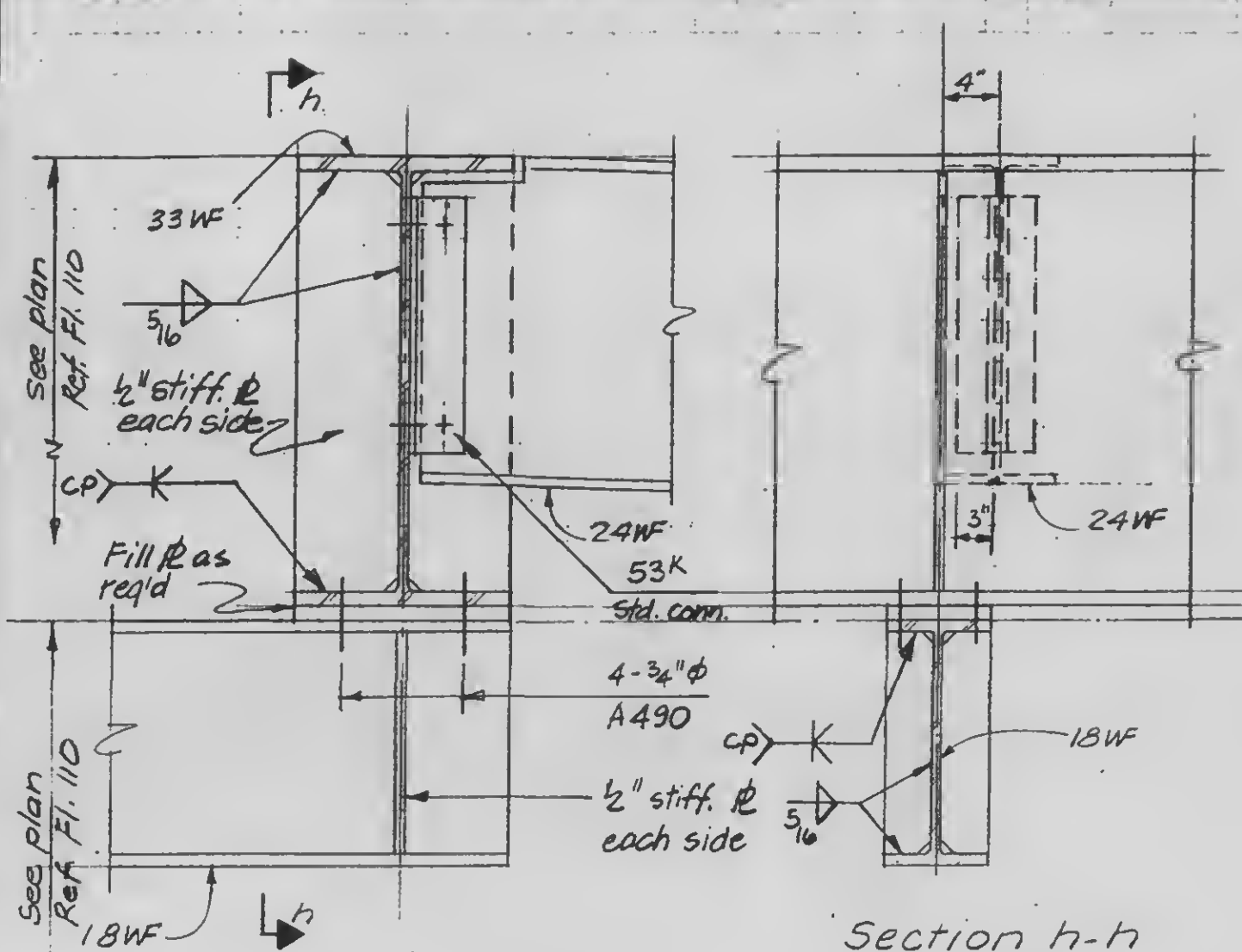


DESIGNED
N. BREWER

DRAWN
A. FRANQUI

REVIEWED

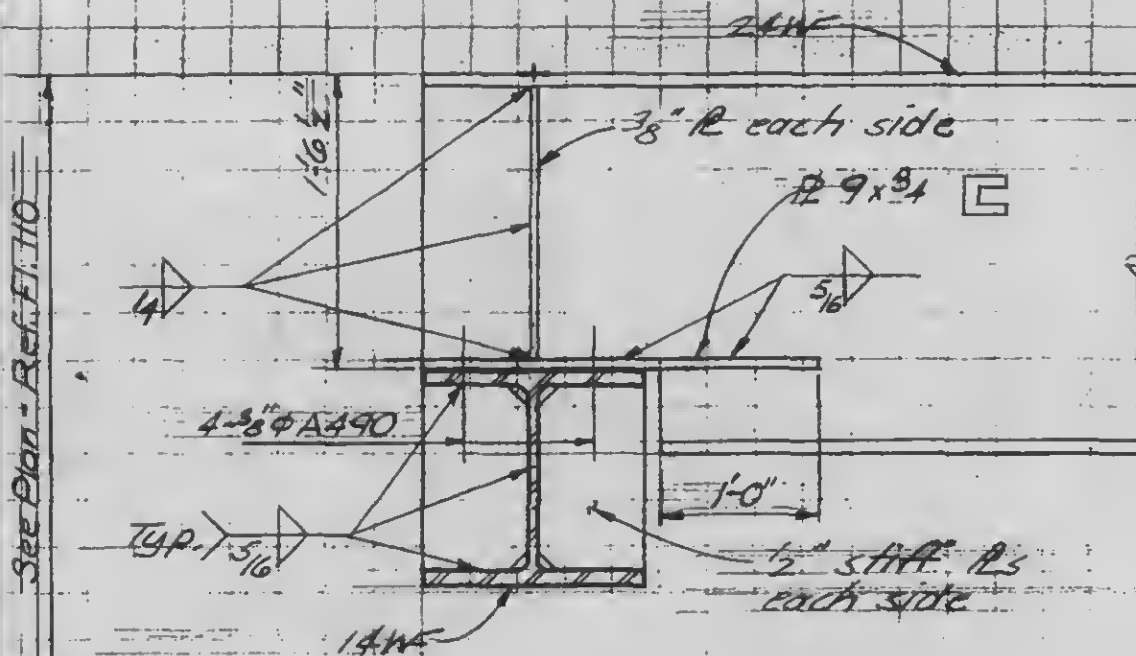
REVISIONS

DESIGNED
W. BREWERDRAWN
A. FRANQUI

REVIEWED

9-B20-15.3

REVISIONS



Detail 20-16A



DESIGNED

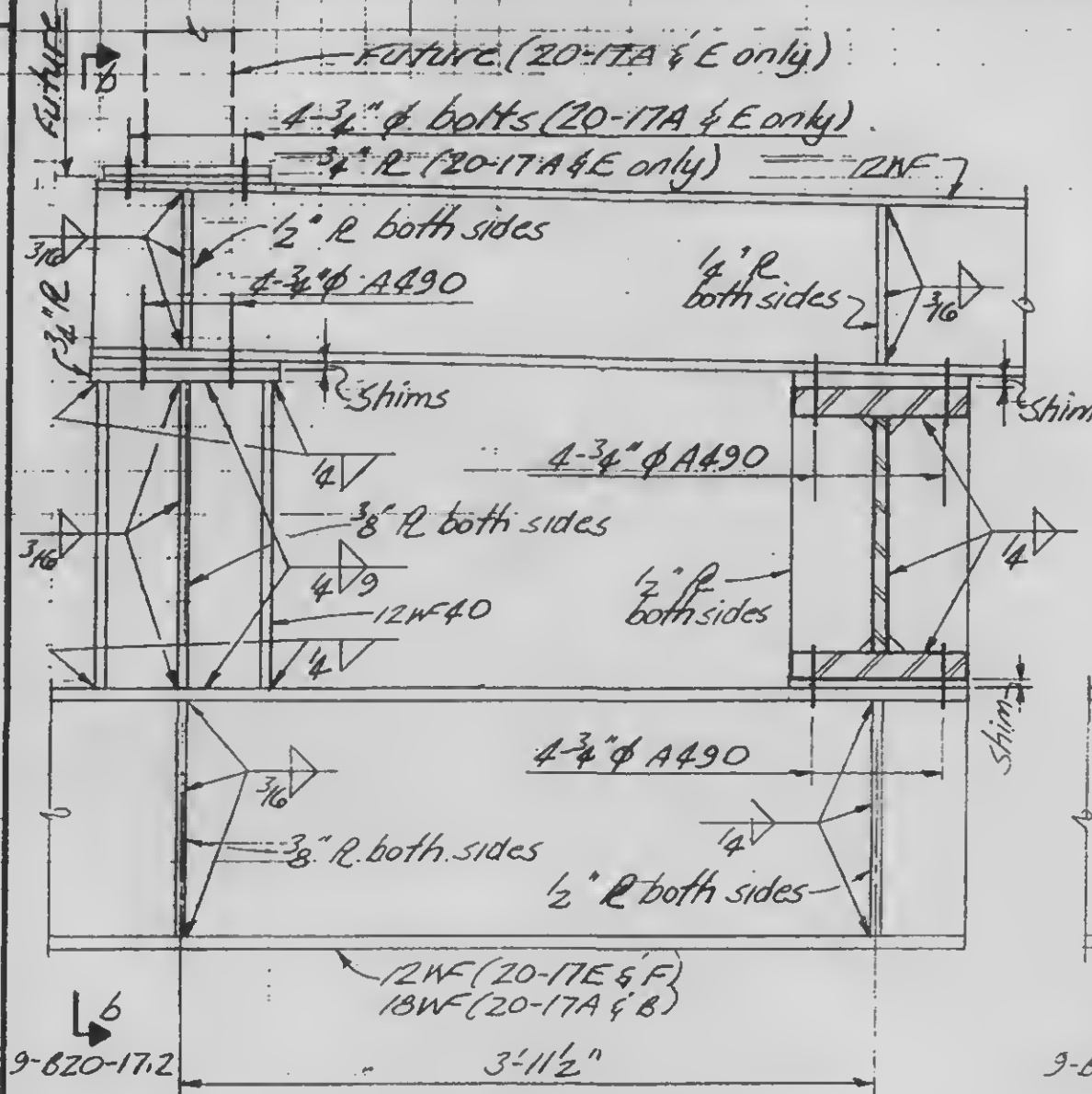
DRAWN

J. Adams

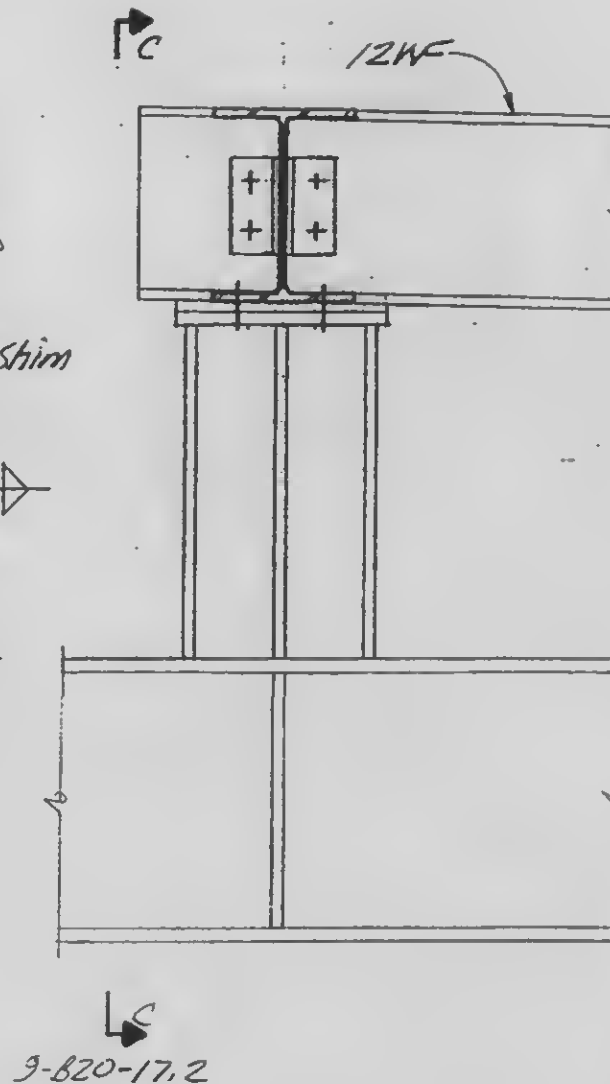
REVIEWED

9-820-10

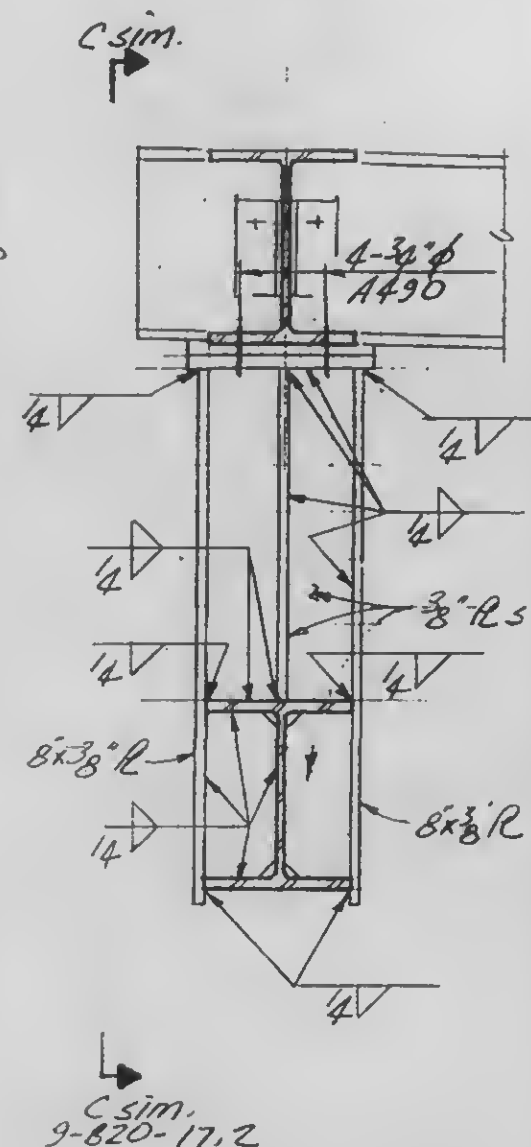
REVISIONS



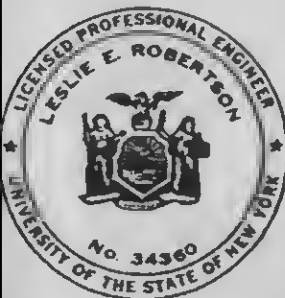
Detail 20-17A & E as noted
Detail 20-17B & F



Detail 20-17C
Note: For balance of detail and information not shown see Oct. 20-17B



Detail 20-17D
Note: For balance of detail see 20-14E



DESIGNED

AWN

Adams

REVIEWED

9-820-17.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

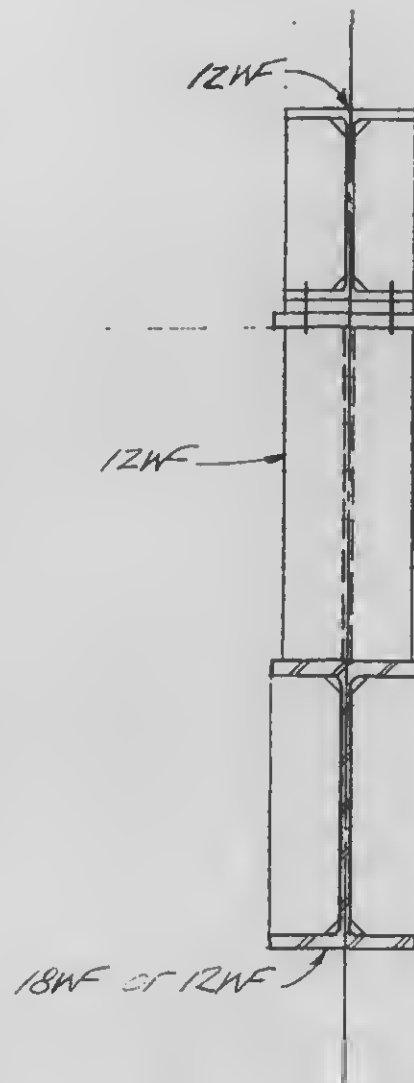
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

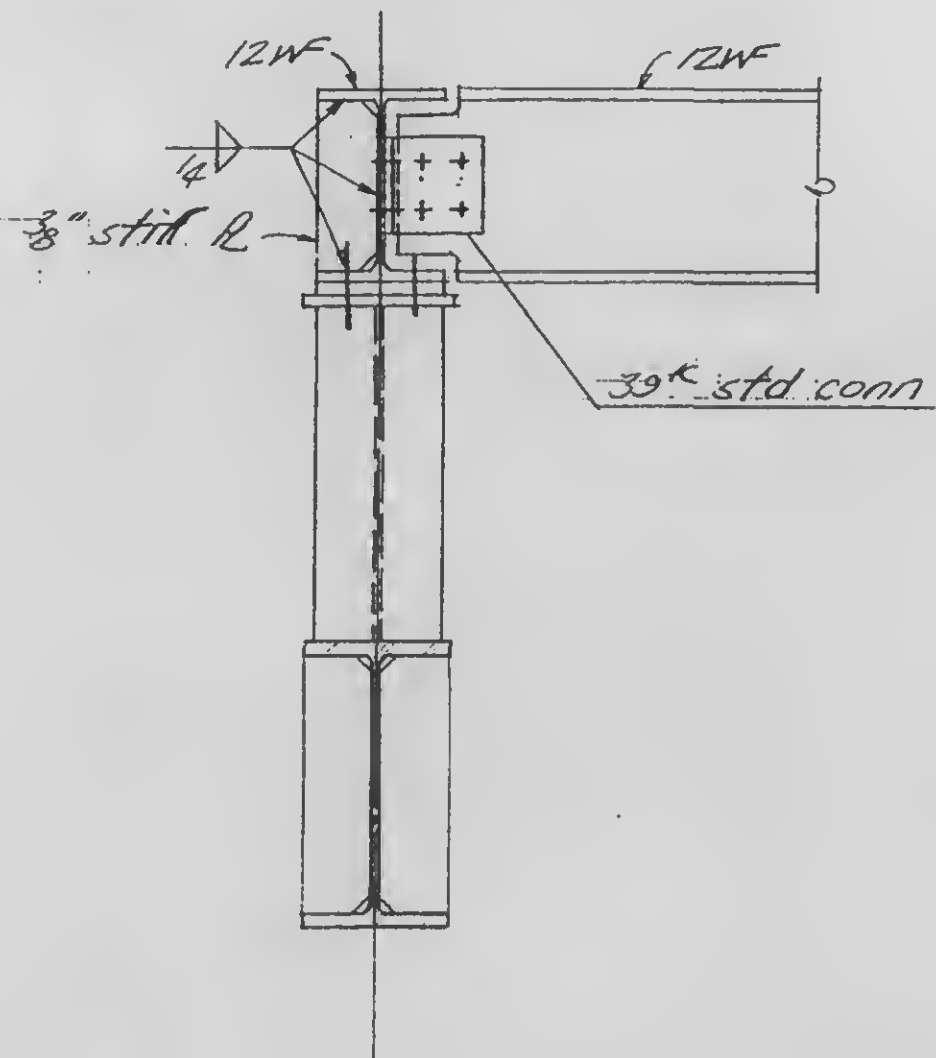
TITLE FL 107 RA CONNECTION DETAILS RA ROOF

DATE 12/21/70

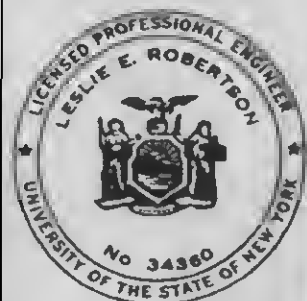
REVISIONS



Section b-b



Section c-c



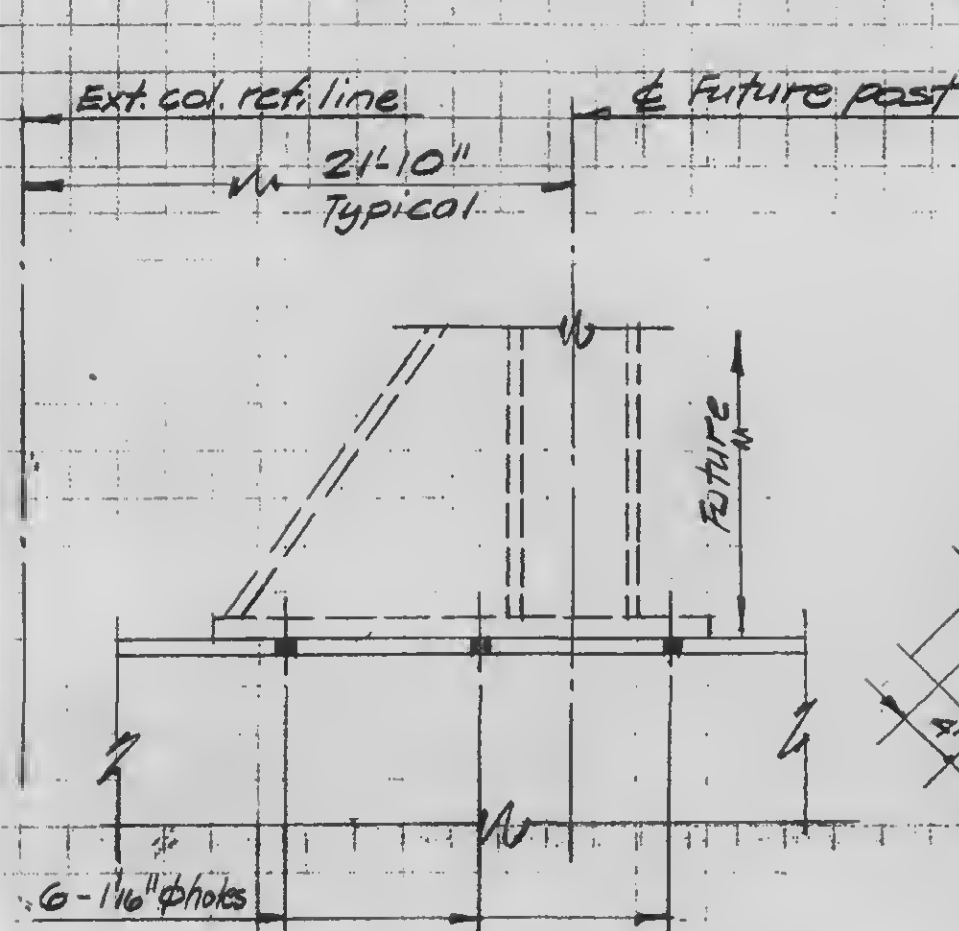
DESIGNED

DRAWN

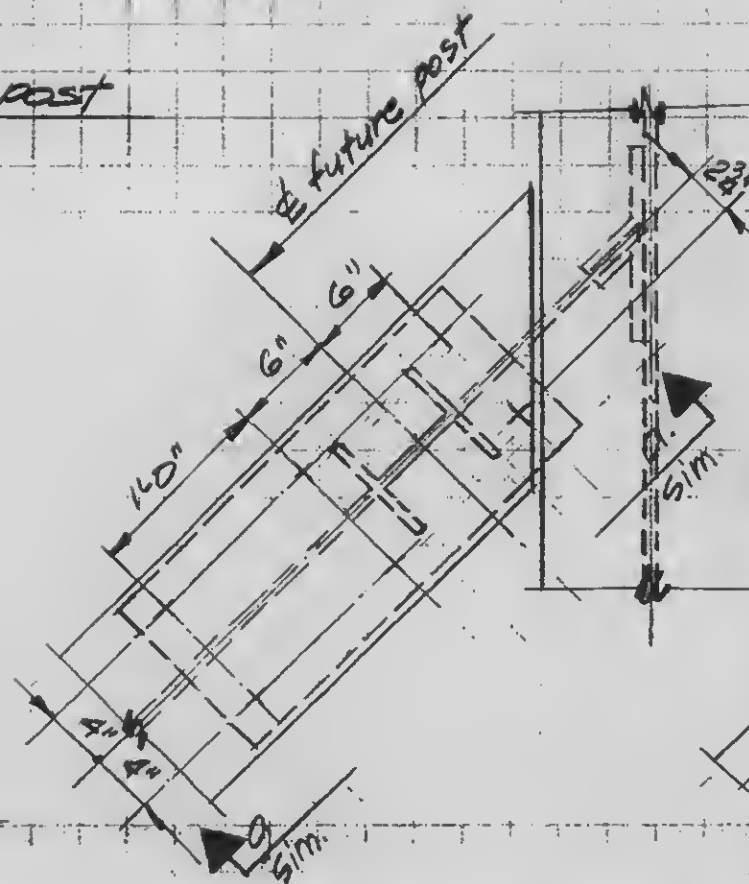
REVIEWED

9-B20-17.2

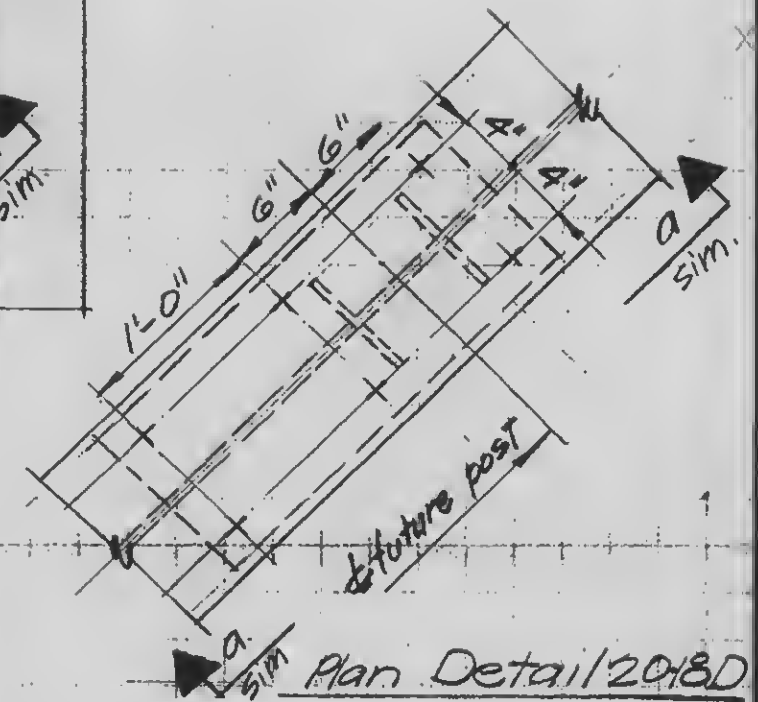
REVISIONS



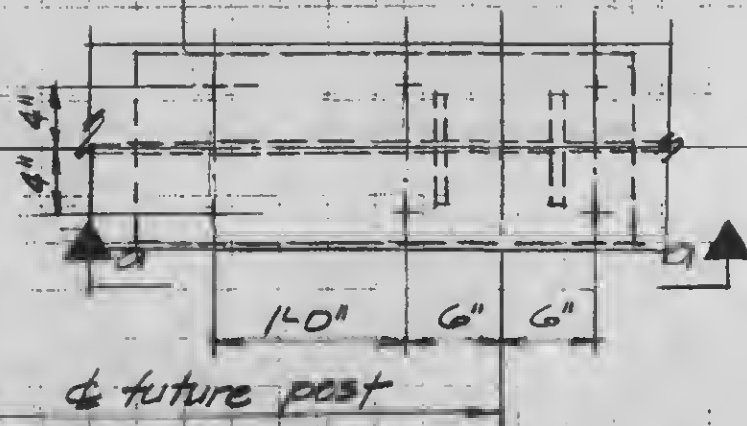
Section a-a



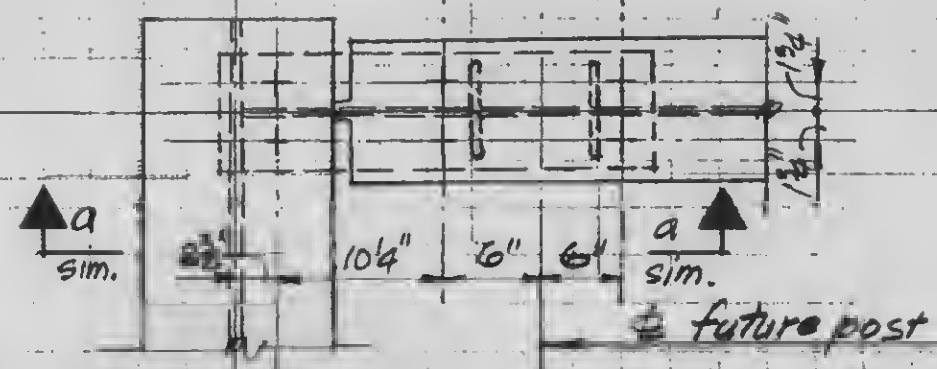
Plan Detail 20-18E



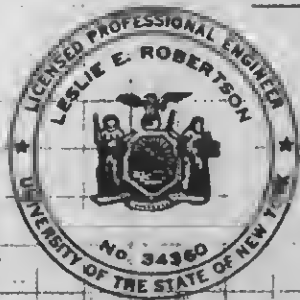
Plan Detail 20-18D



Plan Detail 20-18A



Plan Detail 20-18B



DESIGNED

WAB

SEAL

POB

REVISION

PROJECT

THE WORLD TRADE CENTER

TITLE

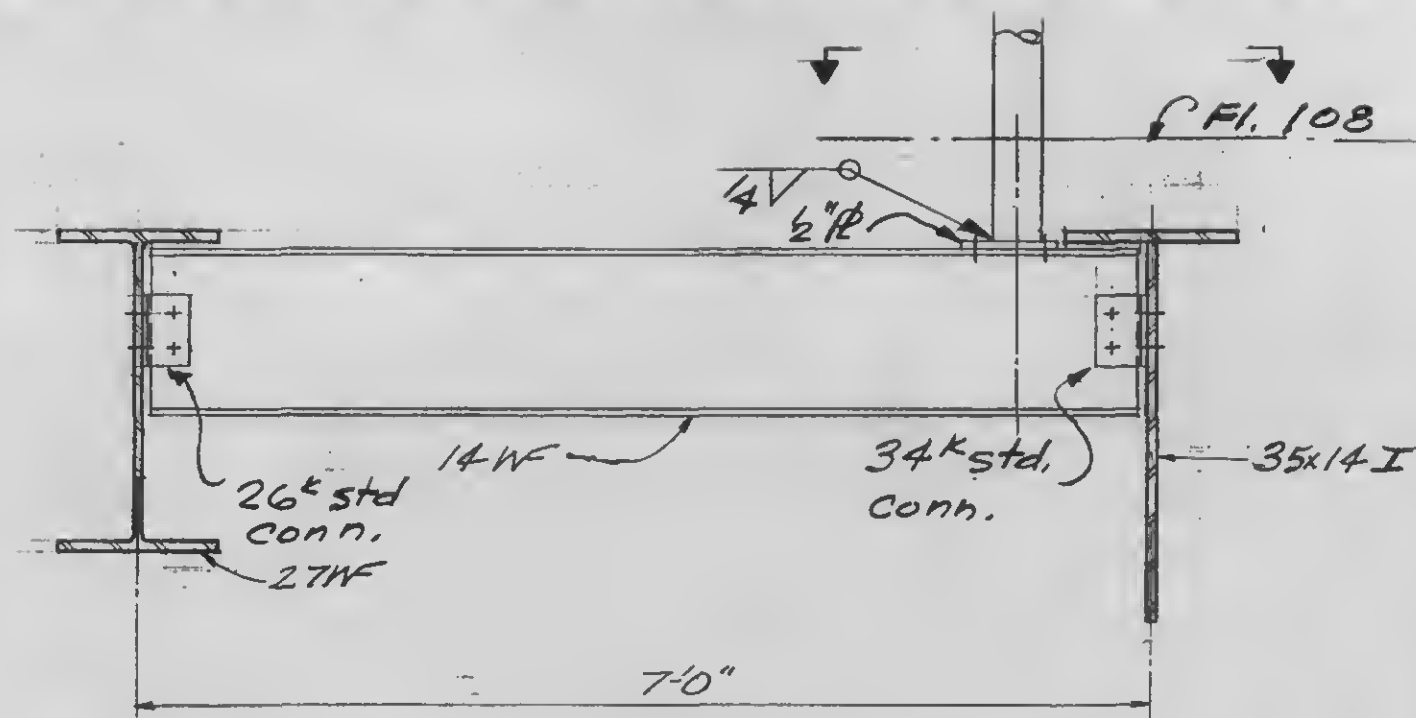
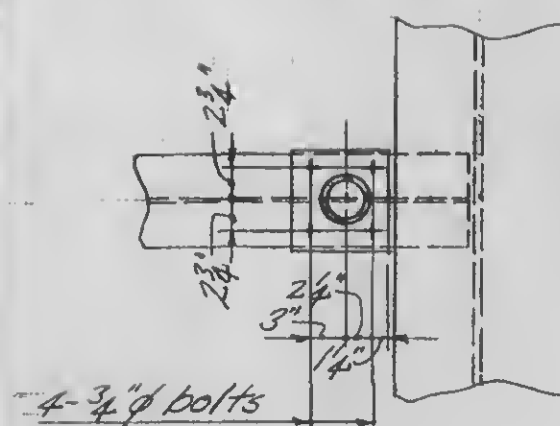
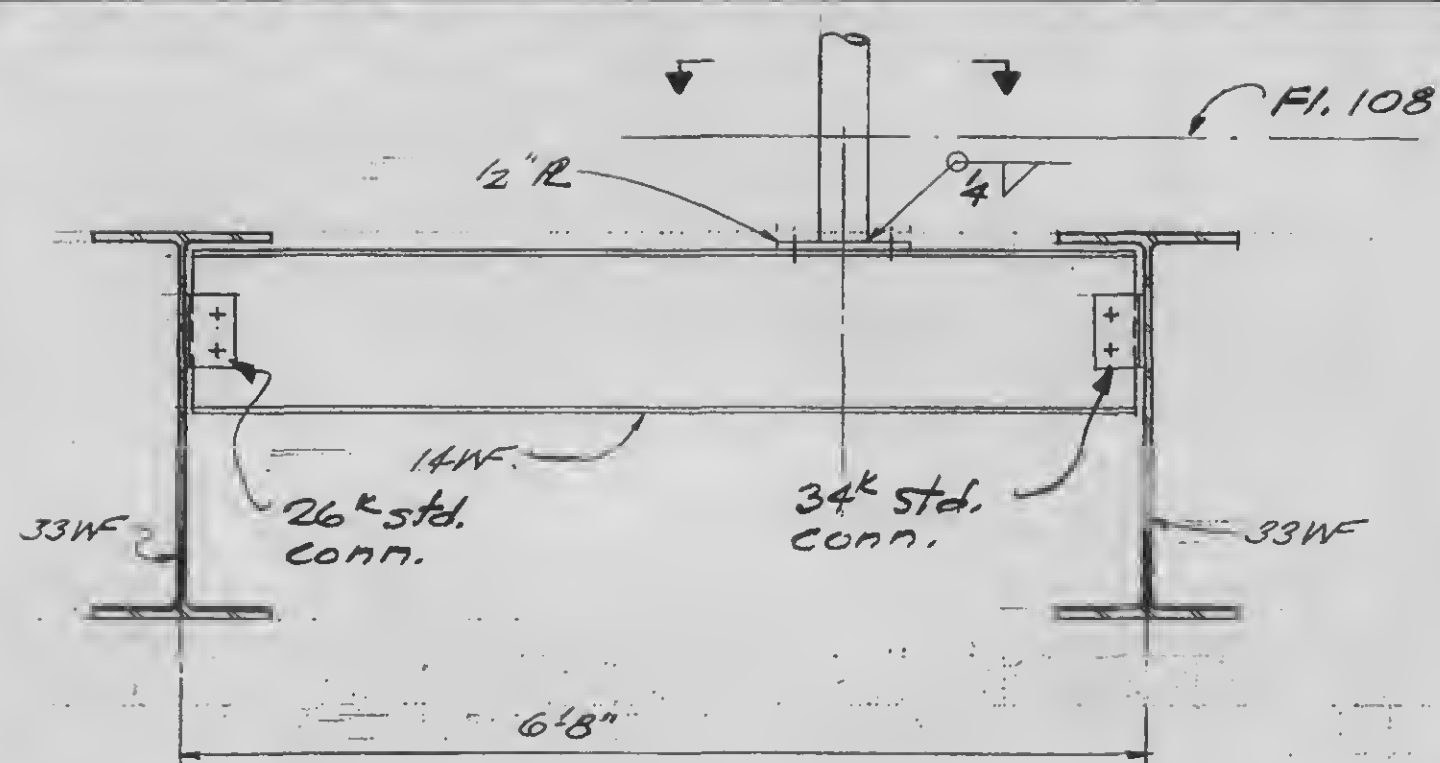
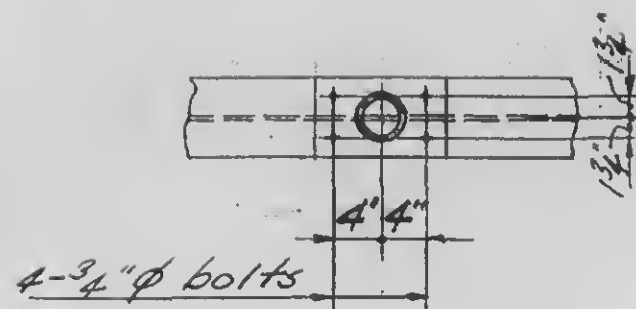
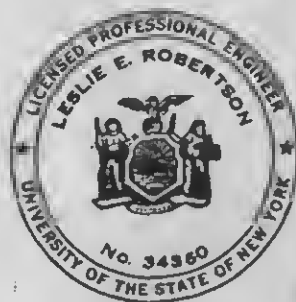
FL. 107 - PH CONNECTION DETAILS - POSTS & MISC

DATE

4-1-70

REVISIONS

5/27/70

Detail 21-1ADetail 21-1B

DESIGNED

DRAWN

J. Adams

REVIEWED

(10) Brewer

9-ABZ1-1.1

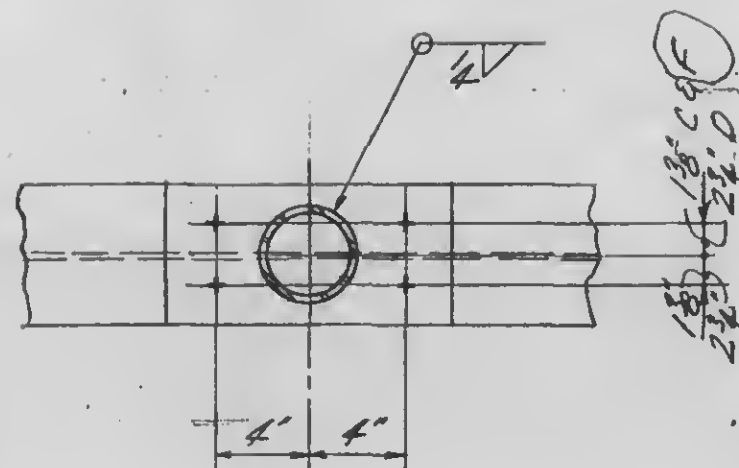
PROJECT THE WORLD TRADE CENTER

TITLE FL.107-PH CONNECTION DETAILS-POSTS & MISC

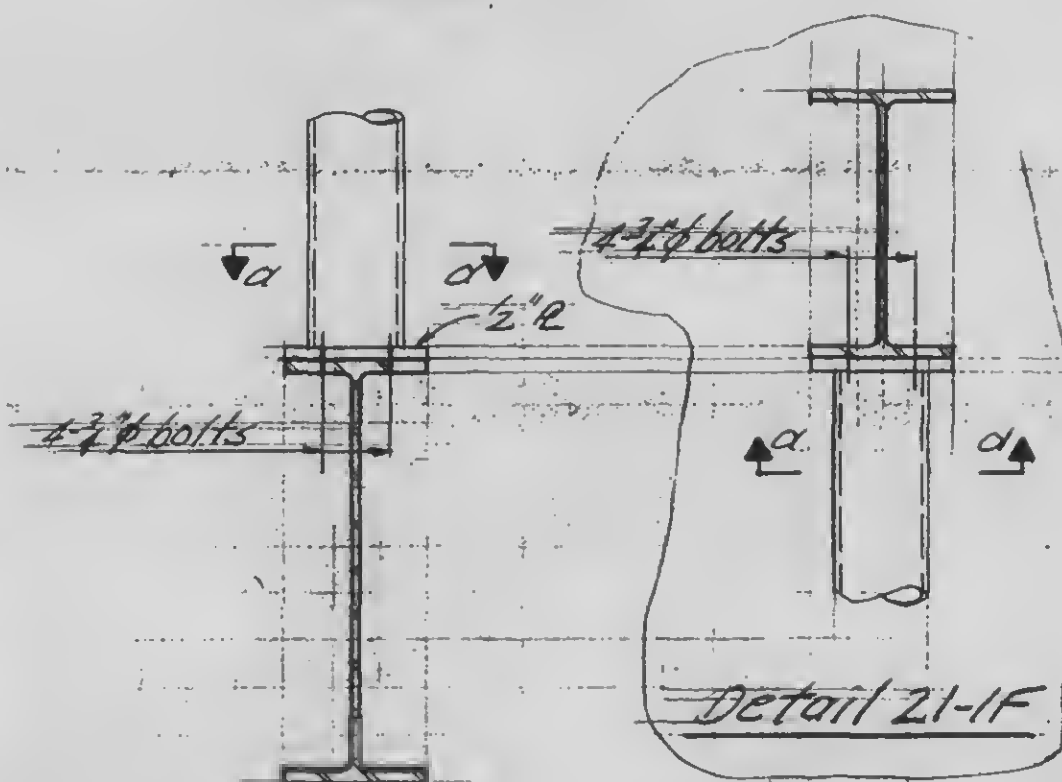
DATE 4-1-70

REVISIONS

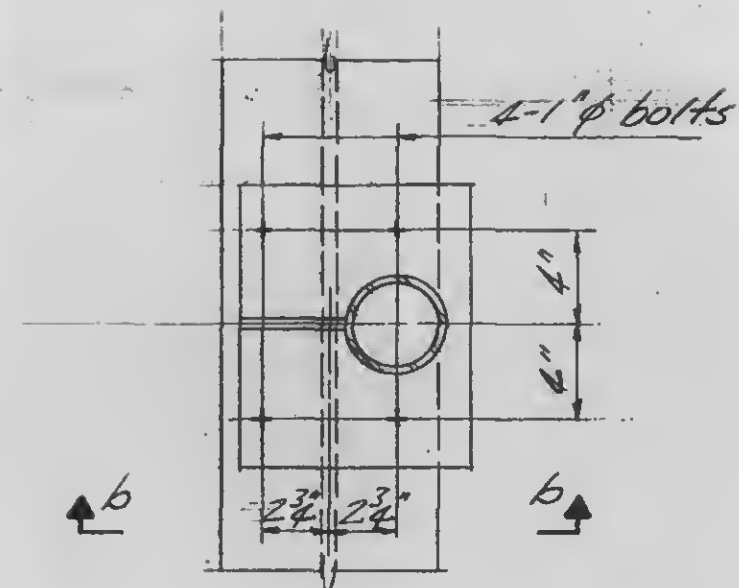
5/27/70
4/15/70



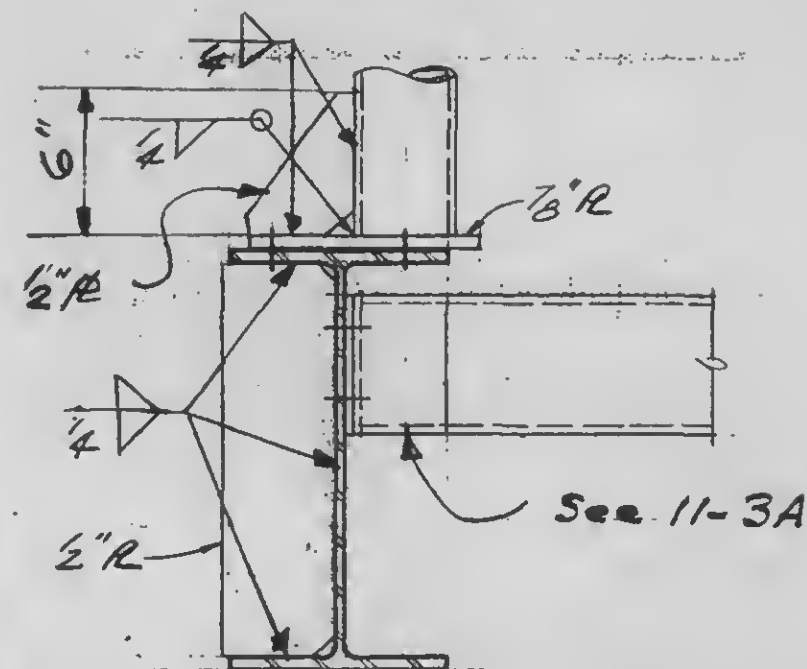
Section a-a



Detail 21-1C&D

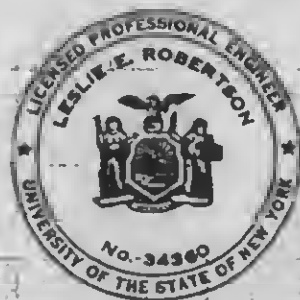


Plan



Section b-b

Detail 21-1E



DESIGNED

DRAWN

REVIEWED

C. Brewer

9-4821-1.2

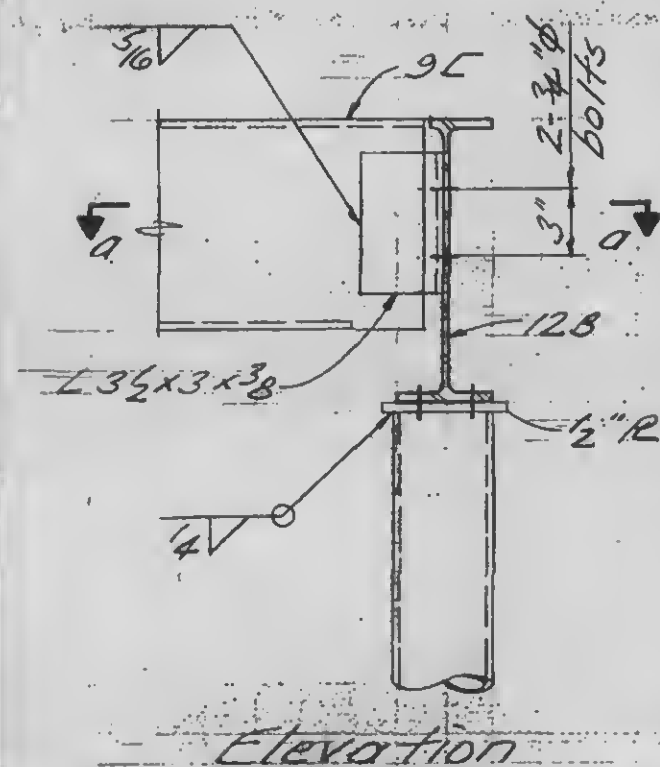
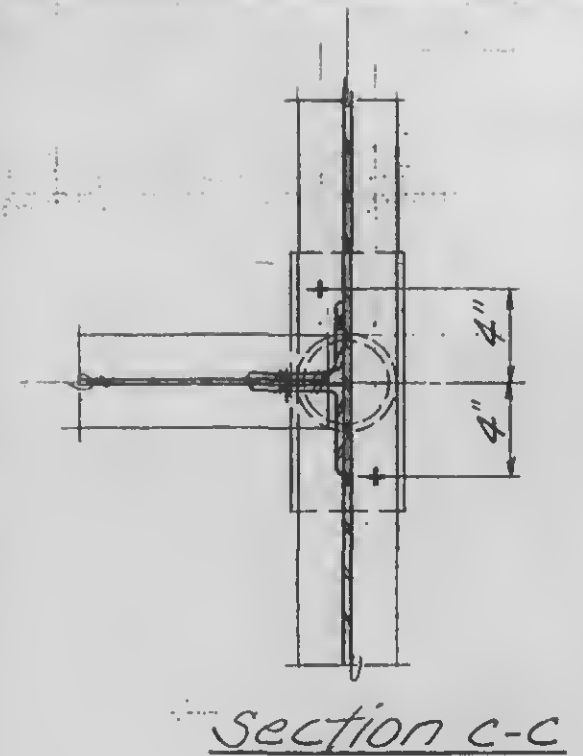
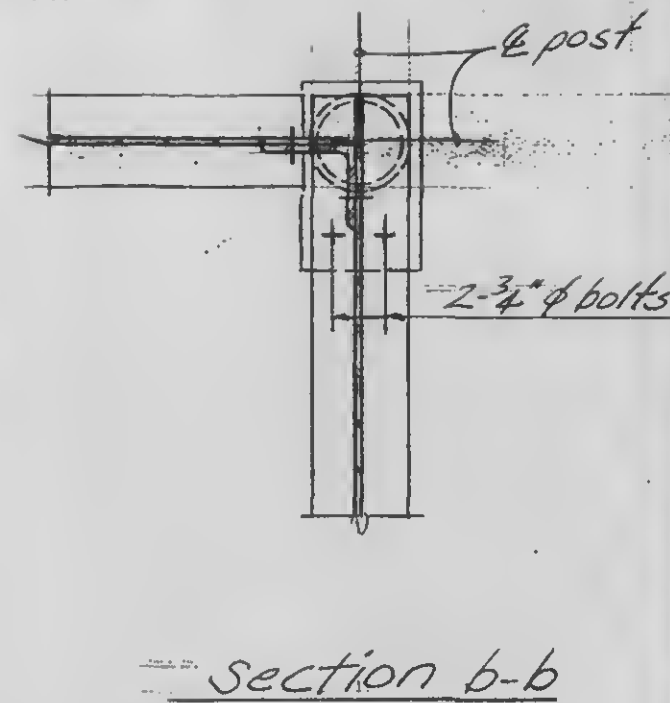
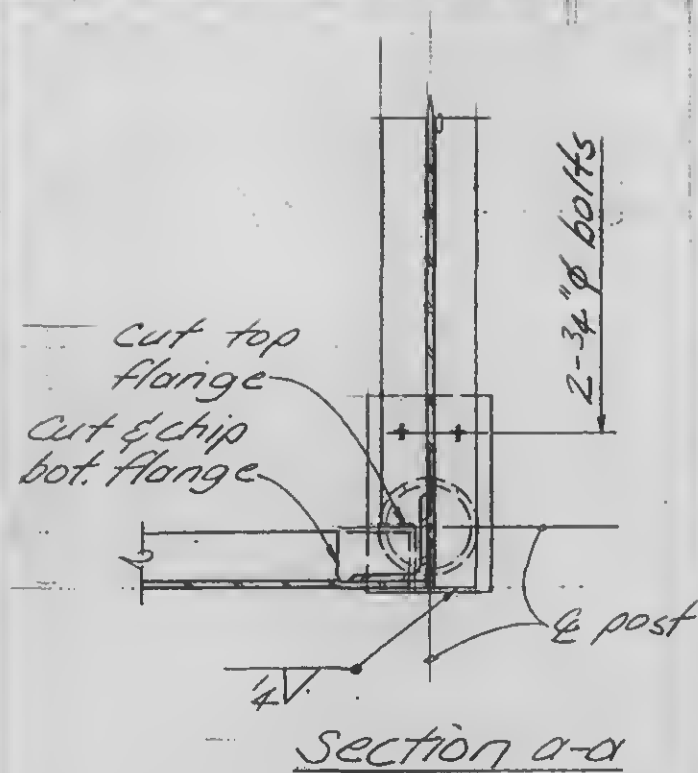
PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS-POSTS & MISC

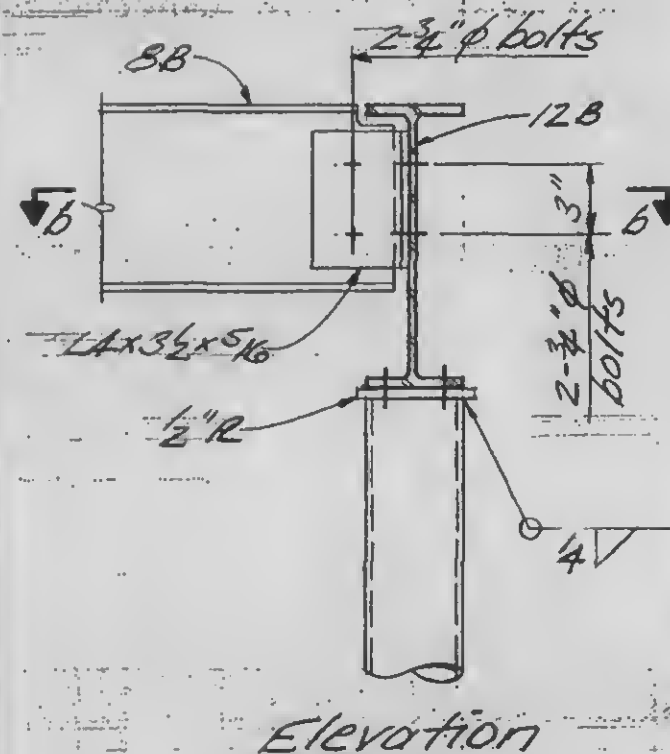
DATE 4-1-70

REVISIONS

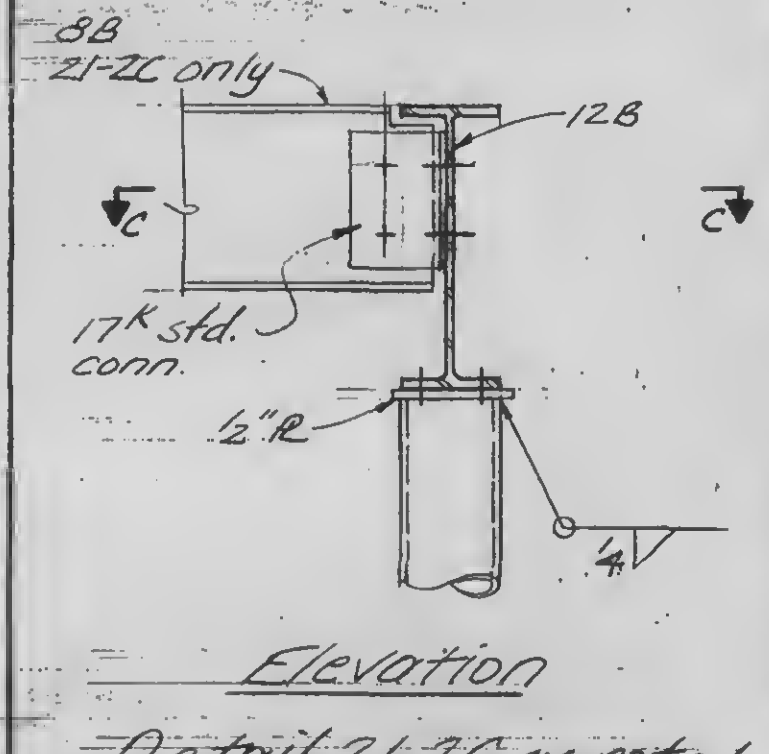
5/27/70



Detail 21-2A



Detail 21-2B

Detail 21-2C as noted
Detail 21-2D

DESIGNED

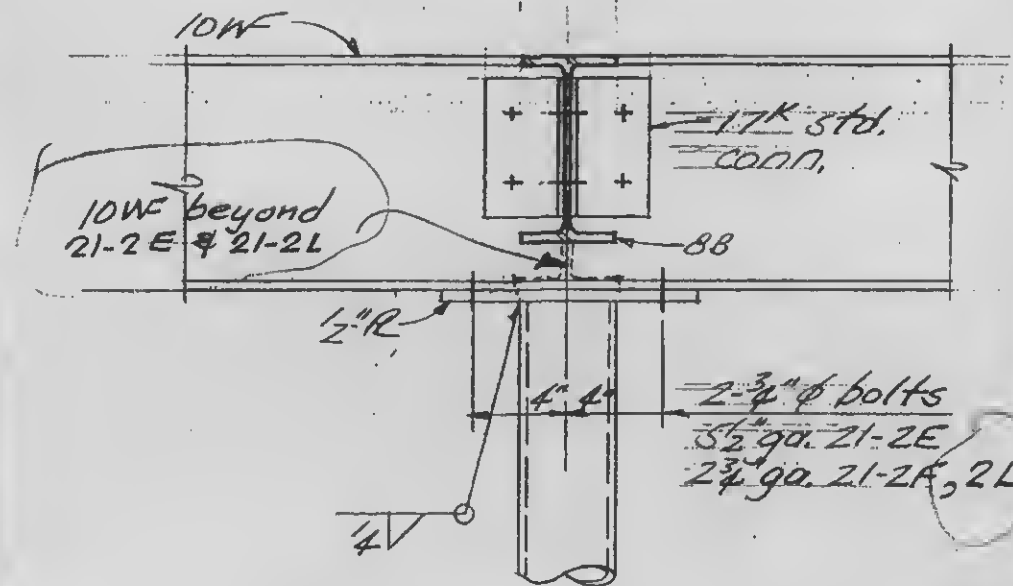
DRAWN J. Adams

REVIEWED W. Brewer

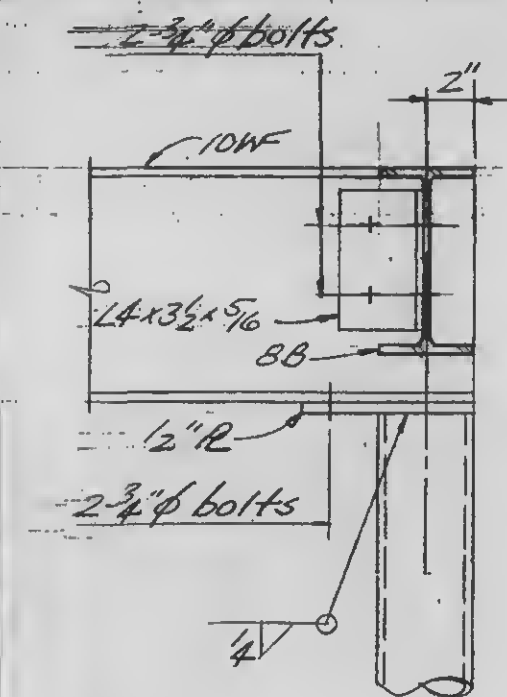
9-AB21-2.1

REVISIONS

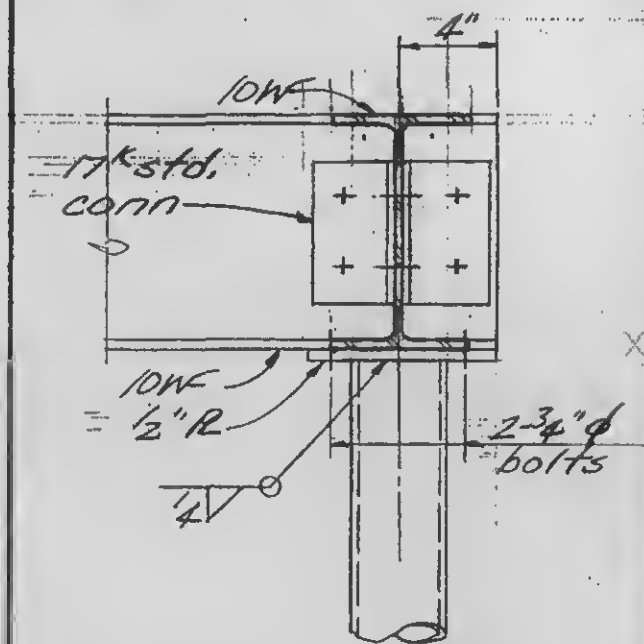
5/27/70



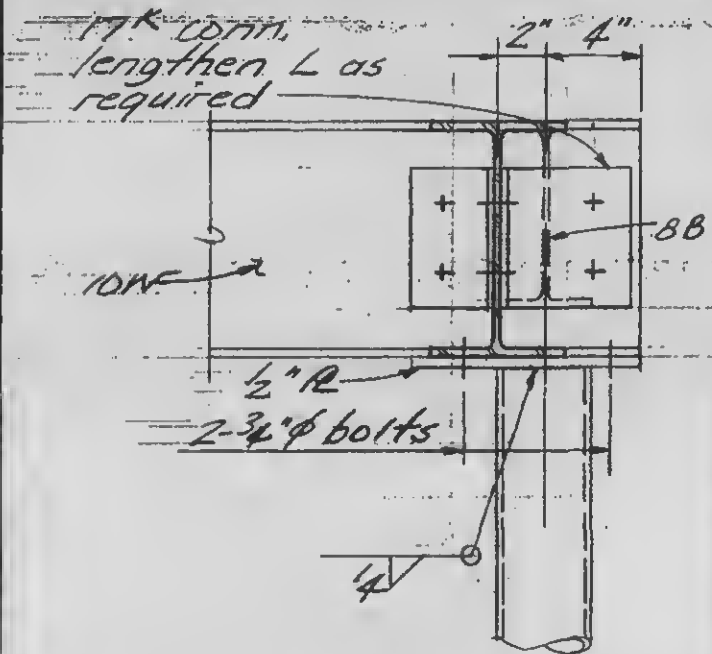
Detail 21-2E
Detail 21-2F & 2L



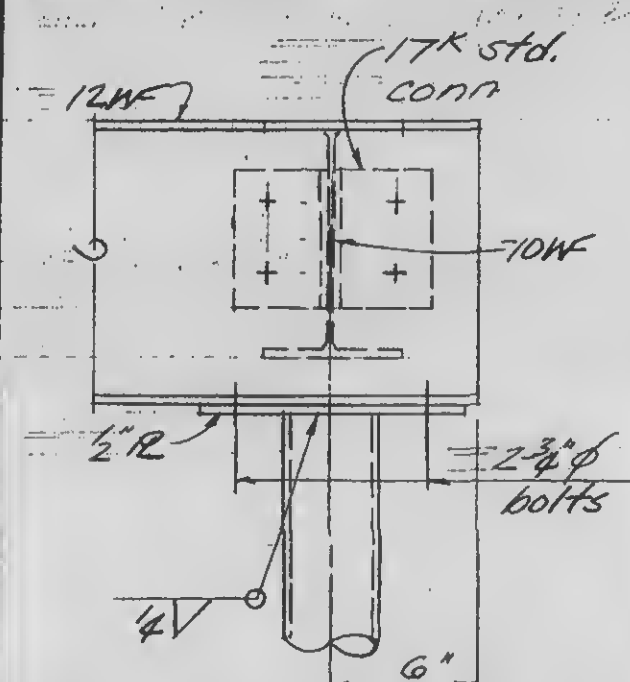
Detail 21-2G



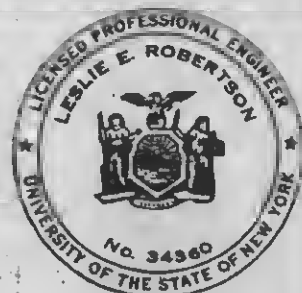
Detail 21-2H



Detail 21-2J



Detail 21-2K



DESIGNED

DRAWN
J. Adams

REVIEWED

W. Brewer

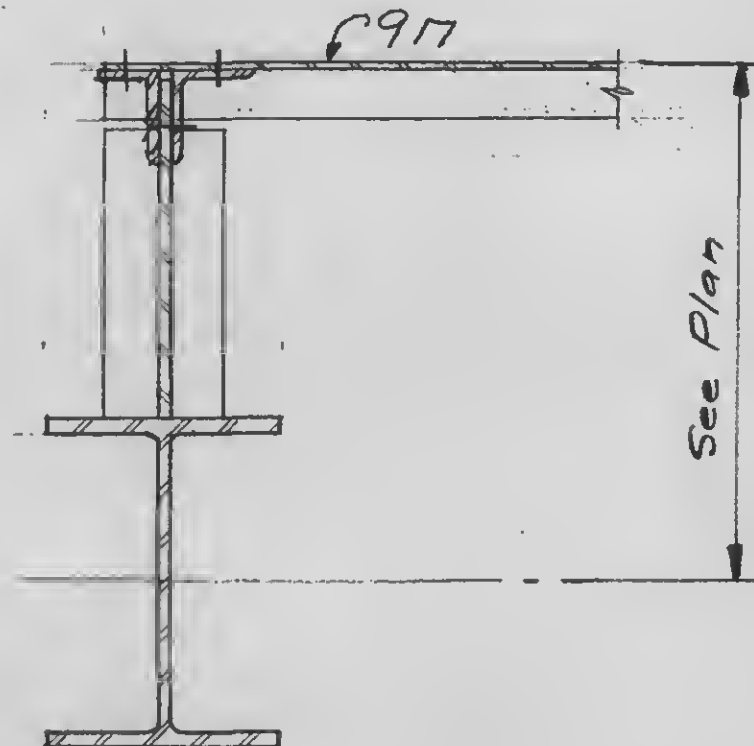
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

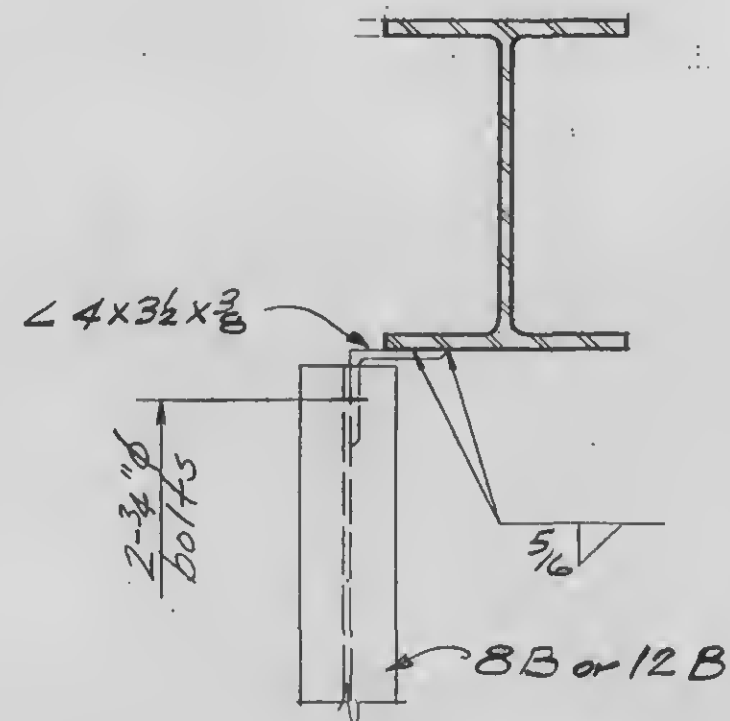
PROJECT THE WORLD TRADE CENTER TITLE FL. 107-PH CONNECTION DETAILS-POSTS & MISC DATE 4-1-70

REVISIONS

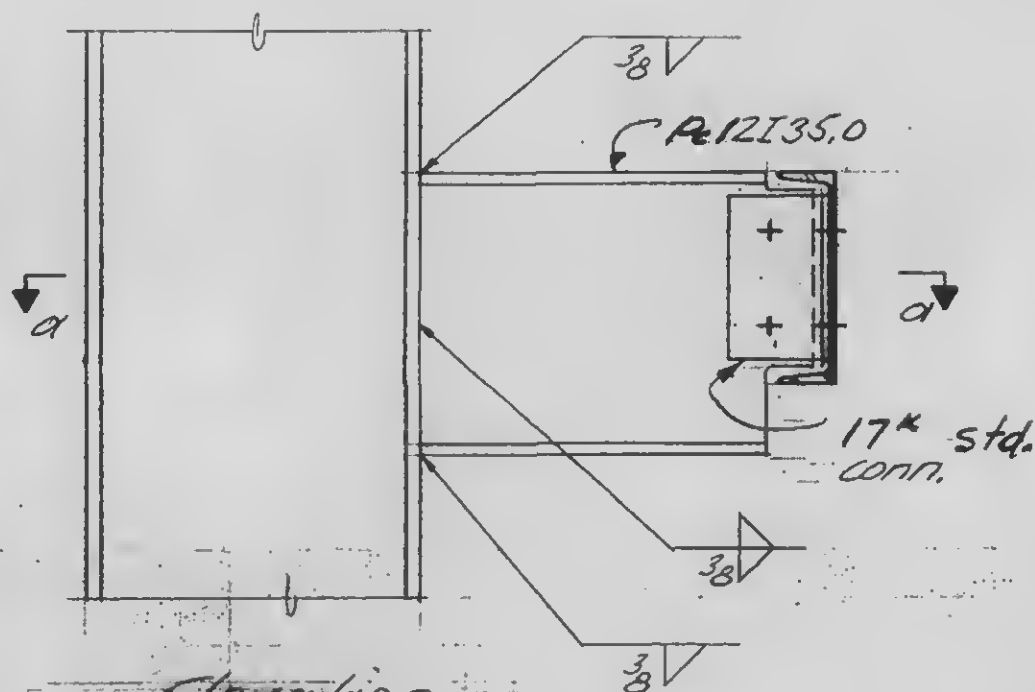
5/27/70



Section a-a

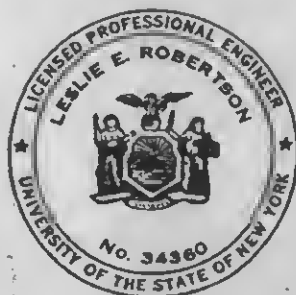


Detail 21-3B



Elevation

Detail 21-3A



DESIGNED

DRAWN

J. Adams

REVIEWED

W. Brewer

9-AB21-3.1

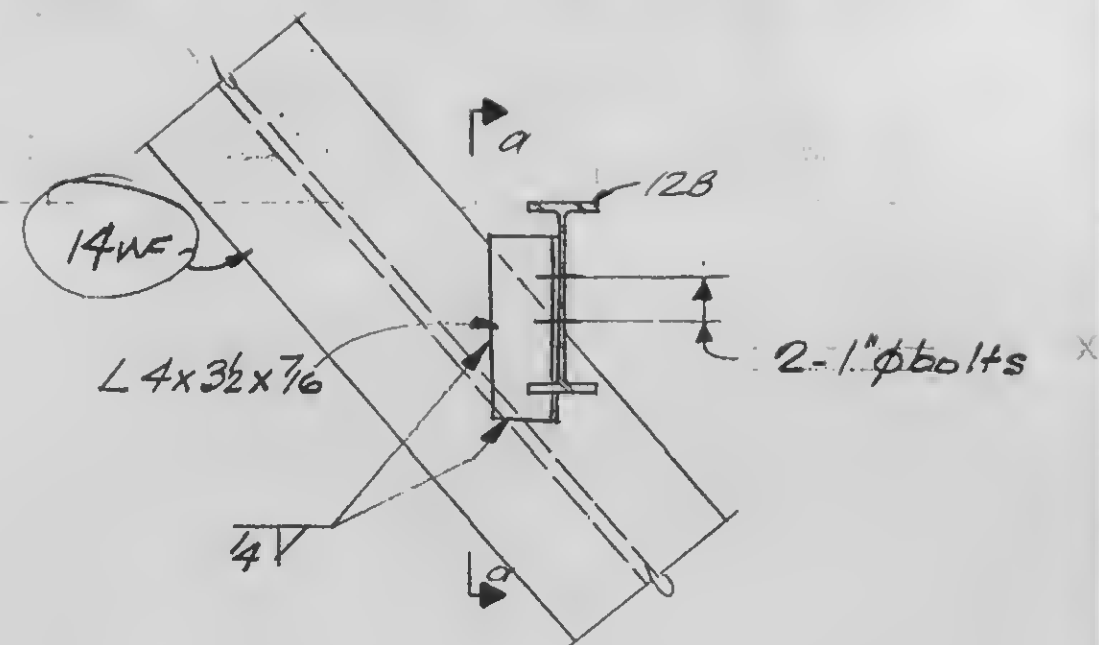
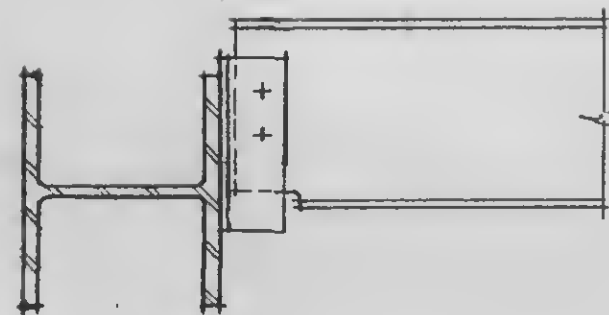
PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS-POSTS & MISC

DATE 4-1-70

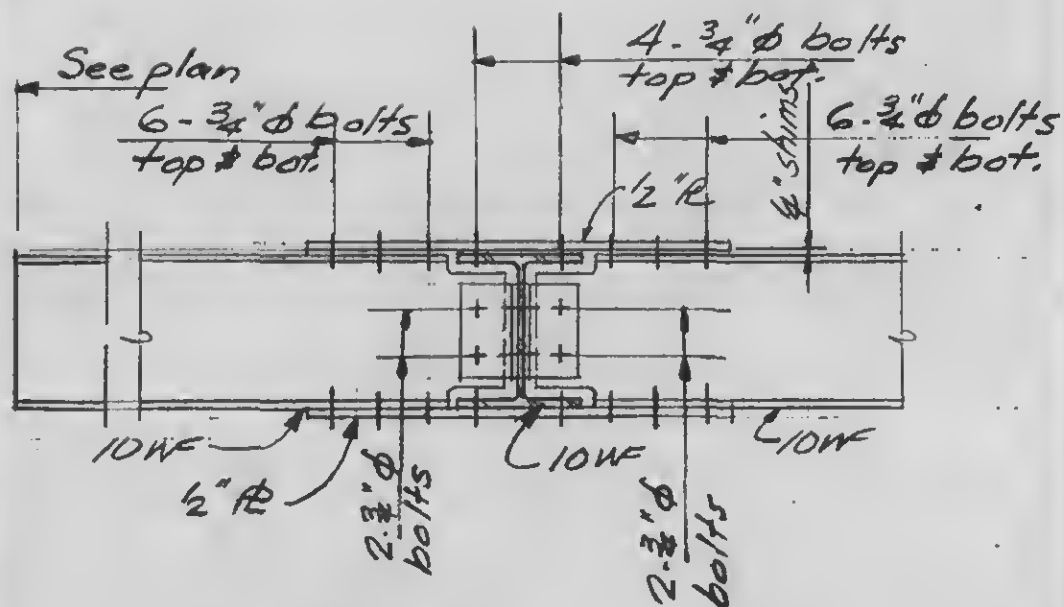
REVISIONS

5/27/70

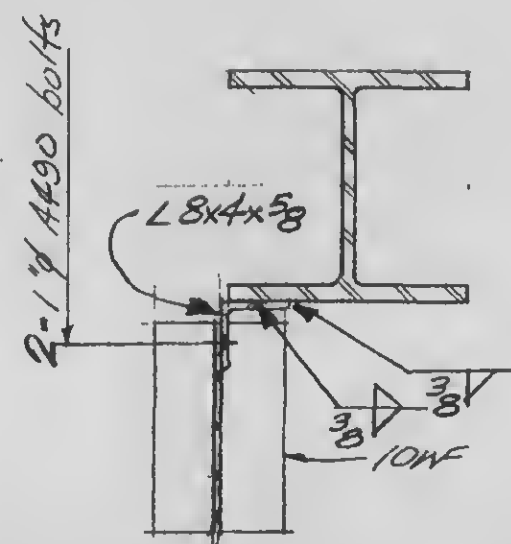


Section a-a

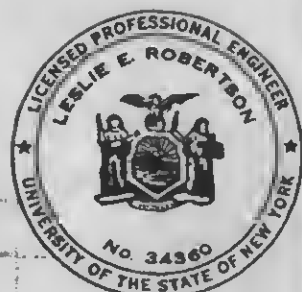
Detail 21-3C



Detail 21-3E



Detail 21-3F



DESIGNED

DRAWN

J. Holans

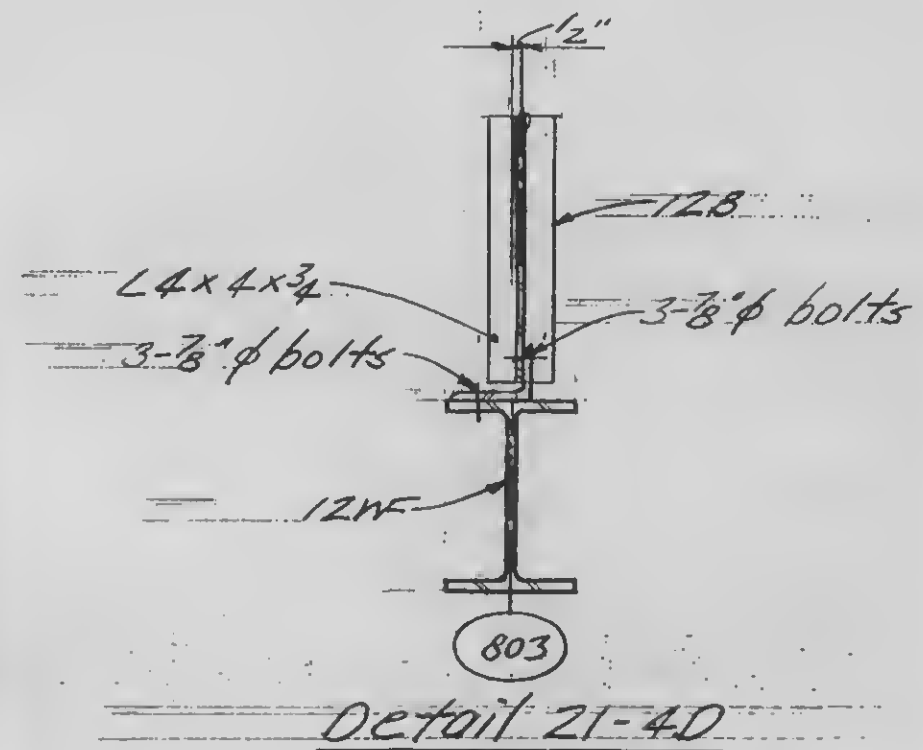
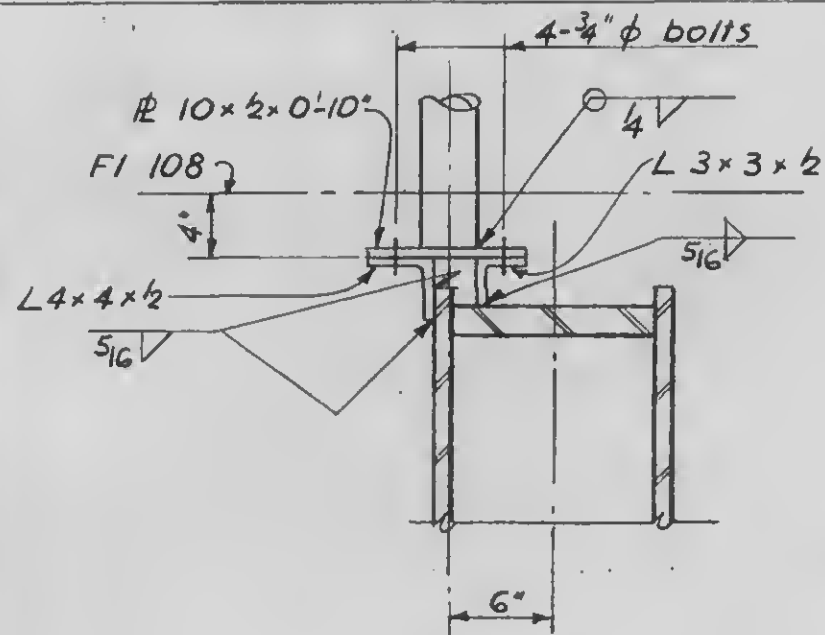
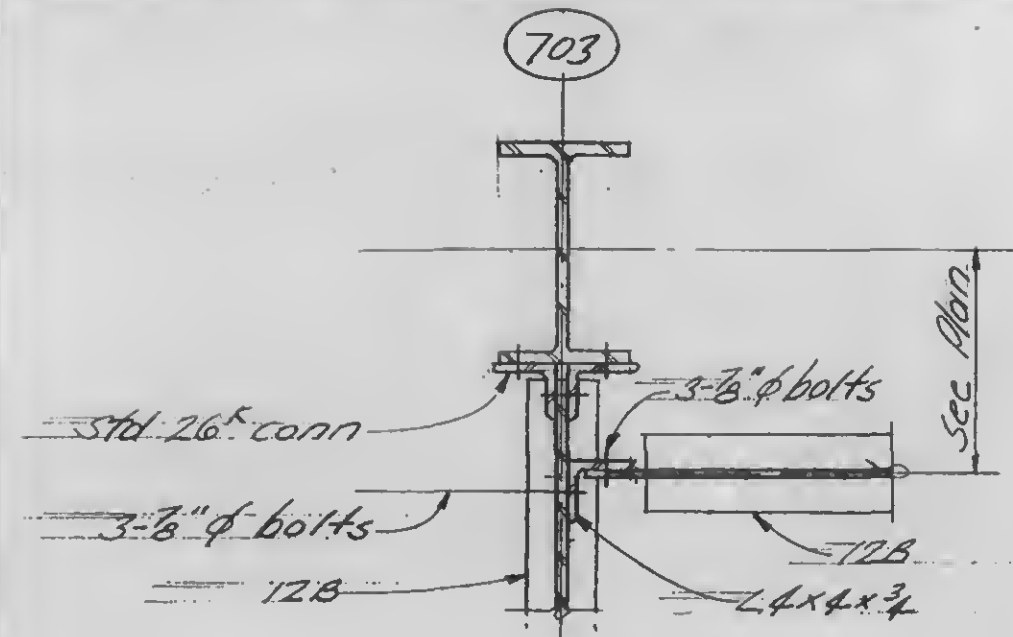
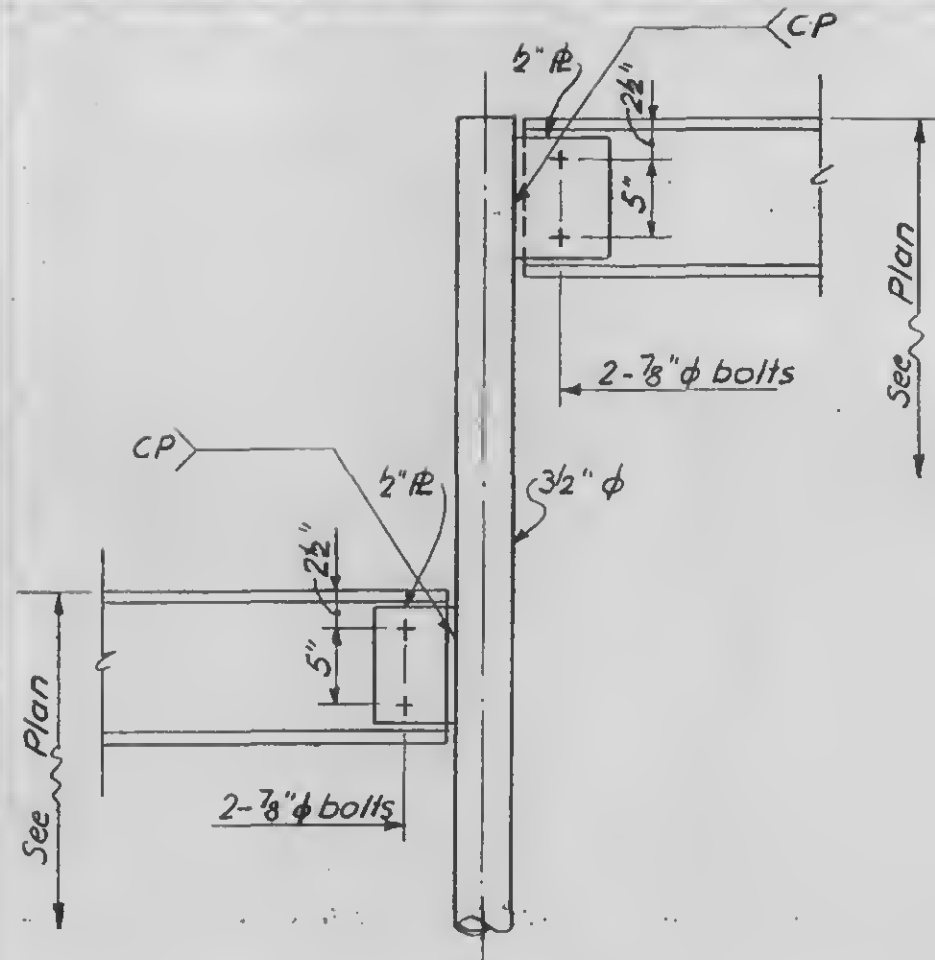
REVIEWED

W. Brewer

9-AB21-3.2

PROJECT THE WORLD TRADE CENTERTITLE FL 107-PH, CONNECTION DETAILS-POSTS & MISCDATE 6-15-70

REVISIONS



DESIGNED

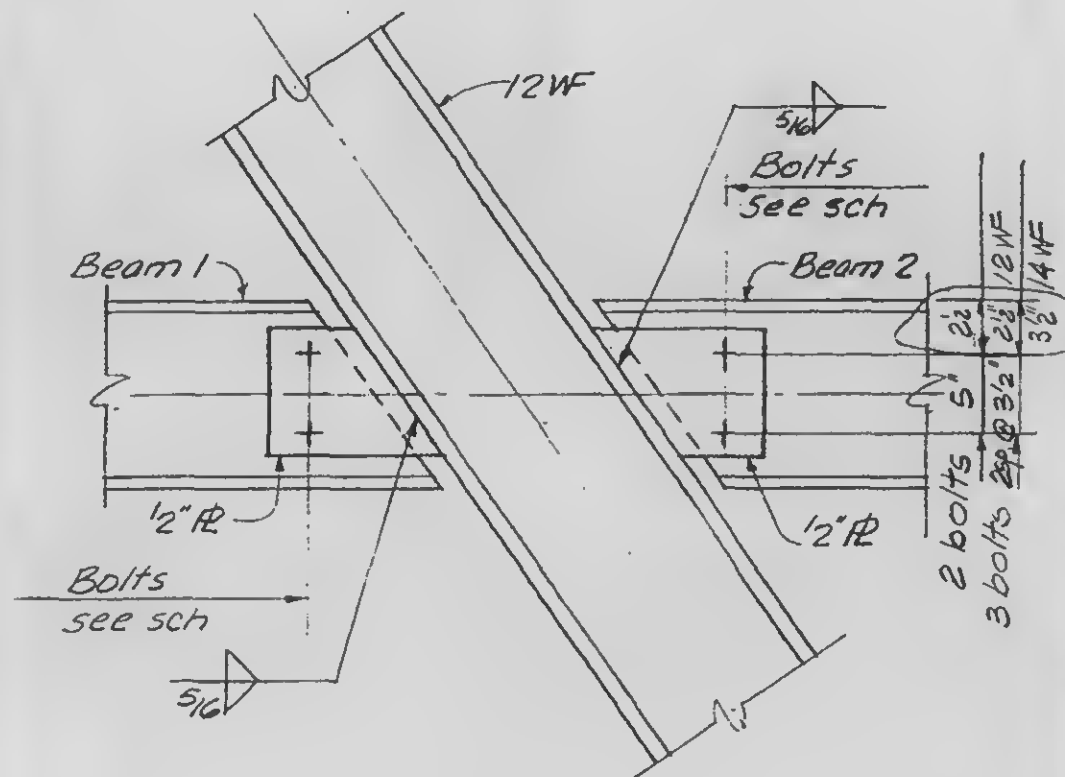
DRAWN
F. Smith

REVIEWED

9-AB 21-4

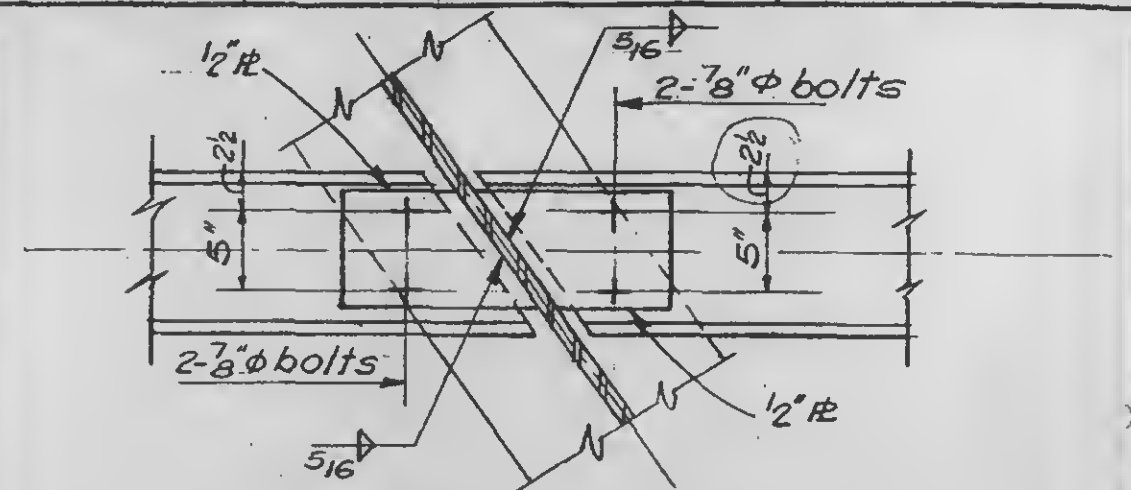
REVISIONS

6-15-70

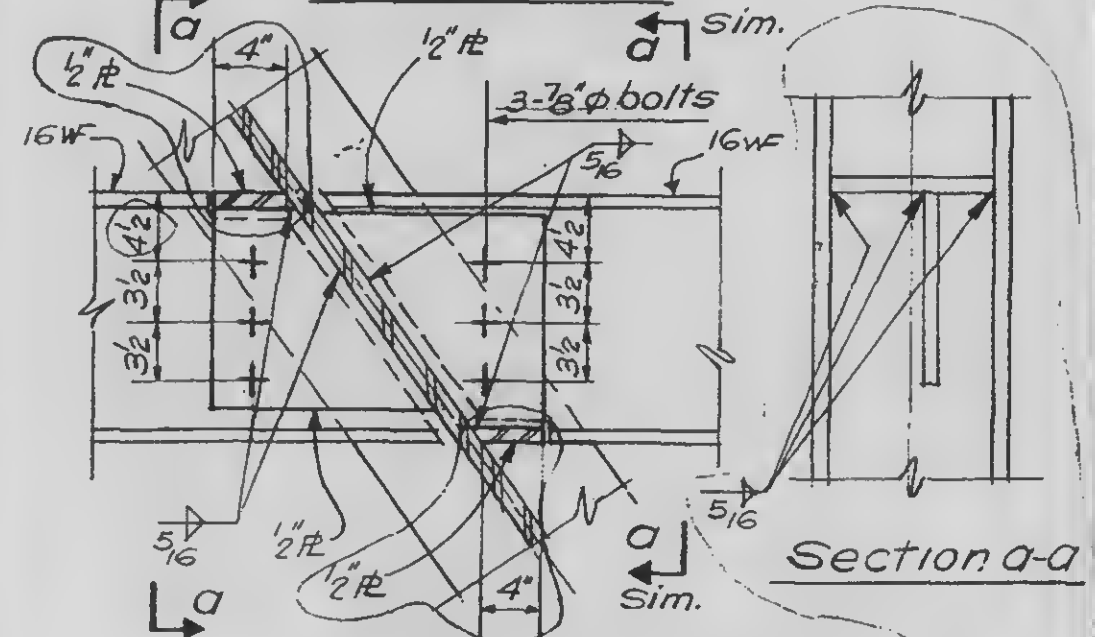


Detail	Beam 1	Bolts	Beam 2	Bolts
22-1A	10WF	2-7/8"φ	10WF	2-7/8"φ
22-1B	14WF	3-7/8"φ	14WF	3-7/8"φ
22-1C	12WF	3-7/8"φ	12WF	3-7/8"φ
22-1D	12WF	3-7/8"φ	14WF	3-7/8"φ

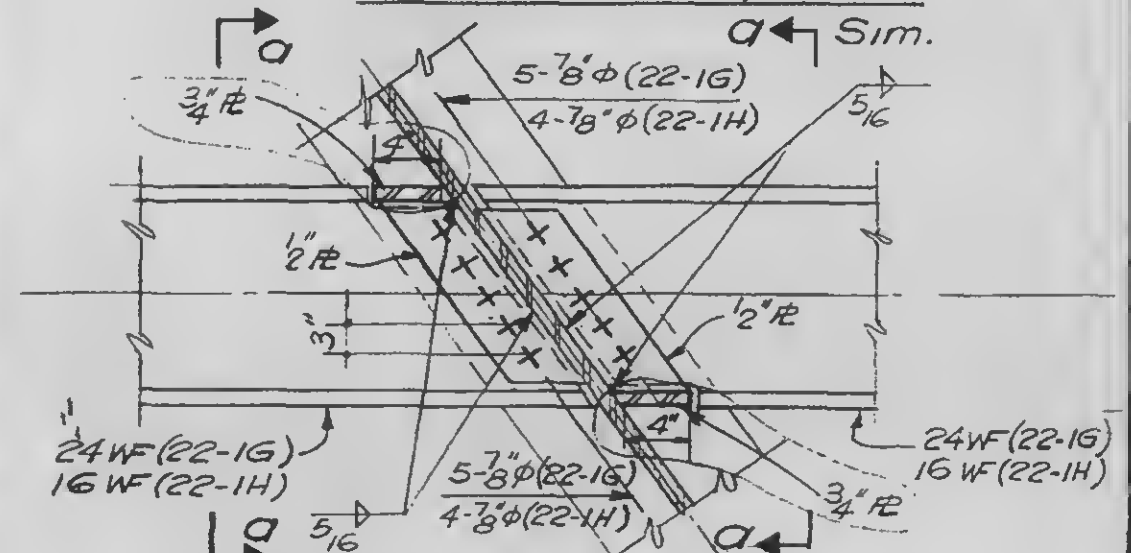
Detail 22-1A, B, C, D



Detail 22-1E

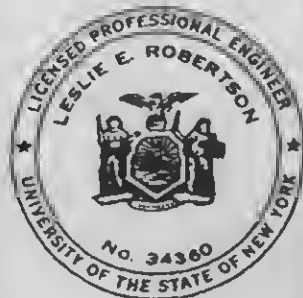


Detail 22-1E & 22-1F



Detail 22-1G & 22-1H

9-AB22-1.1



DESIGNED

DRAWN V.H.A

REVIEWED

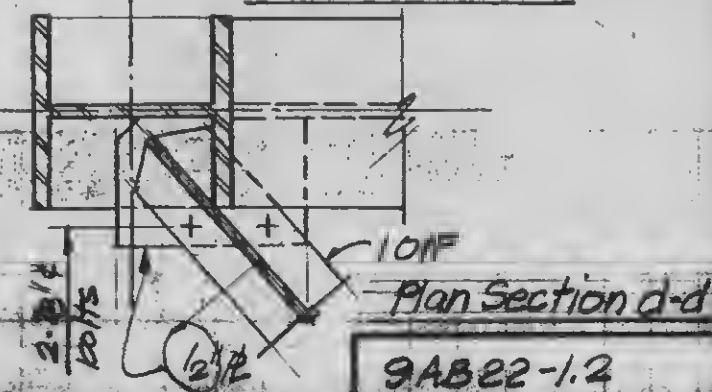
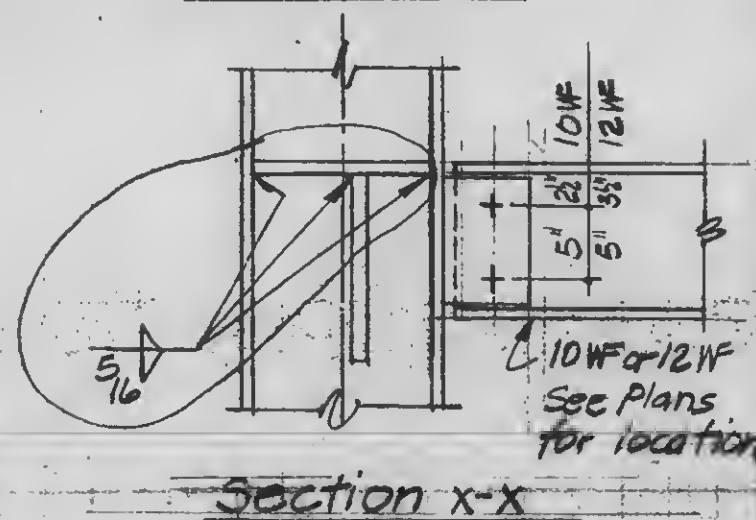
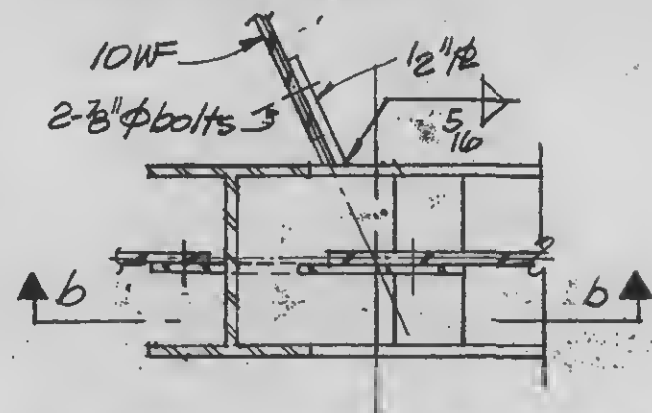
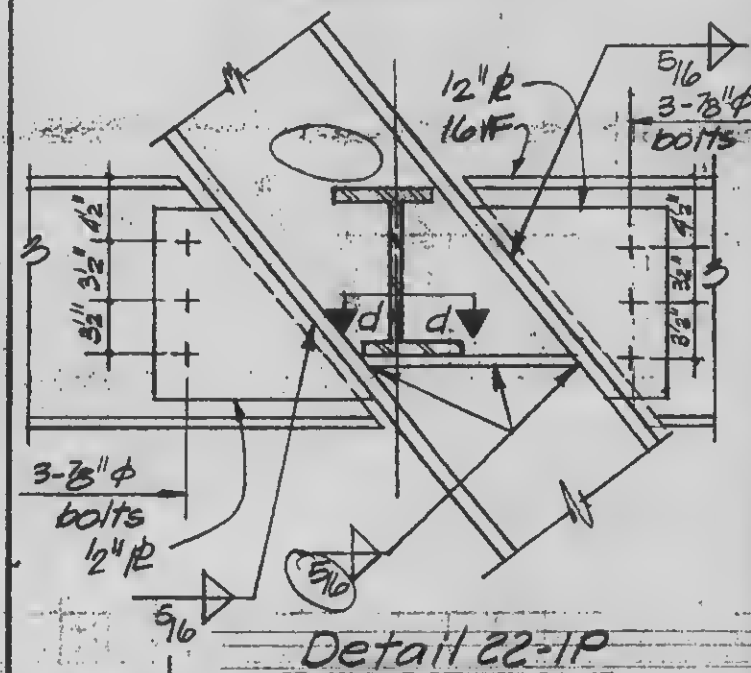
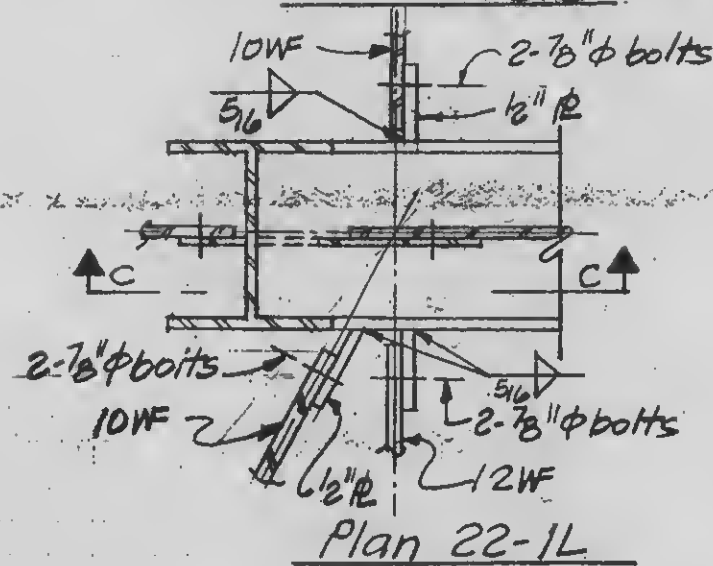
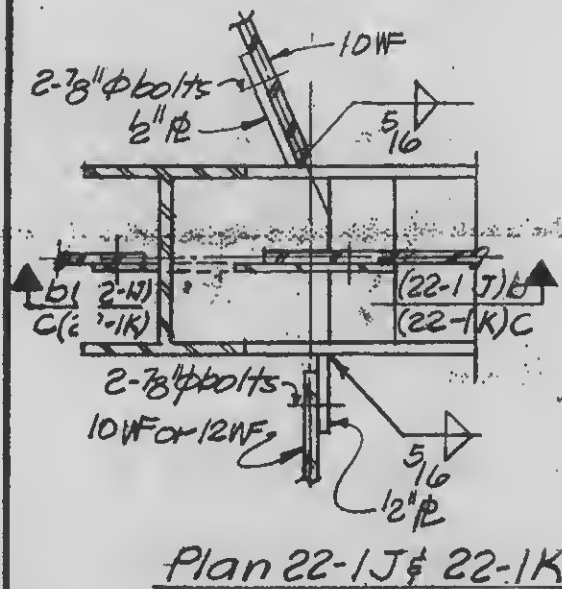
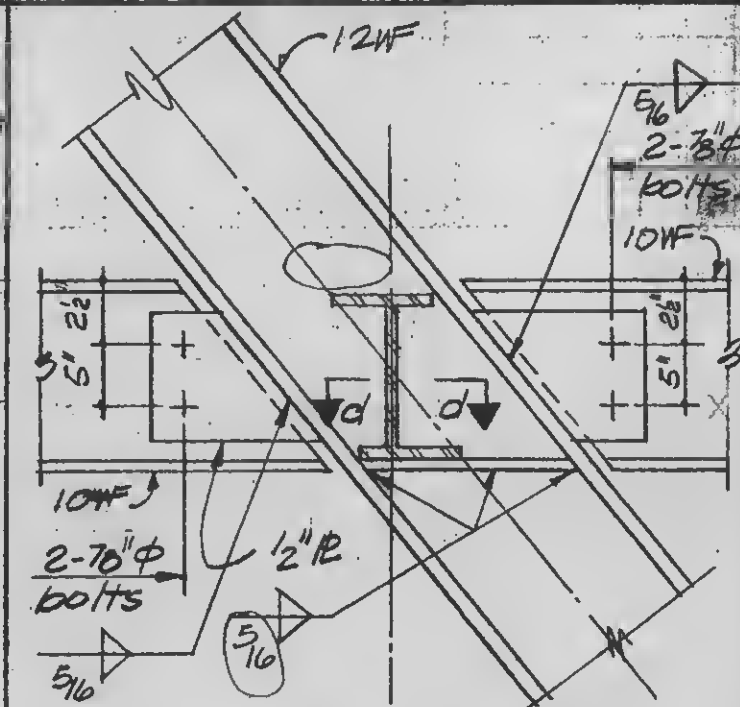
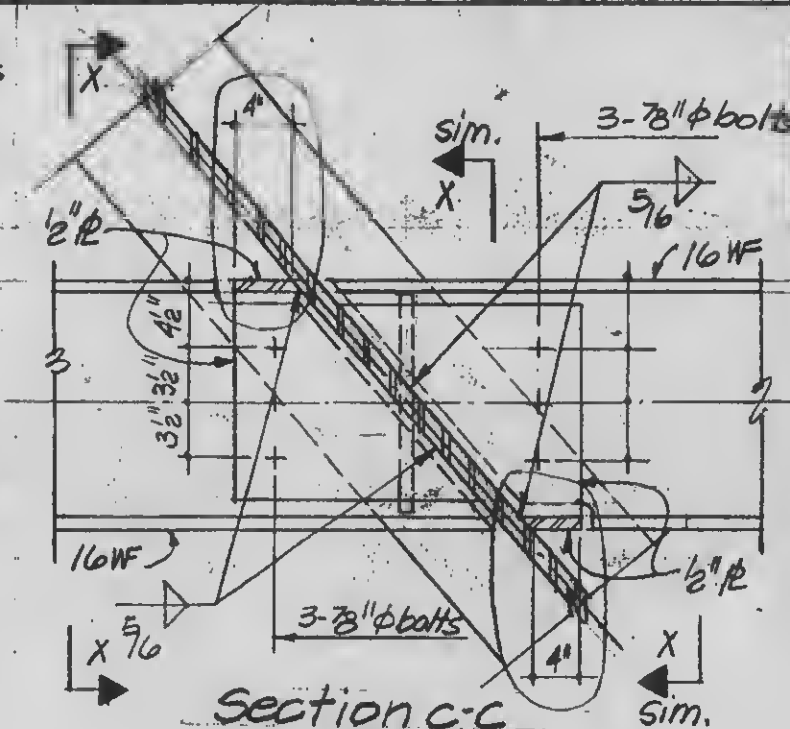
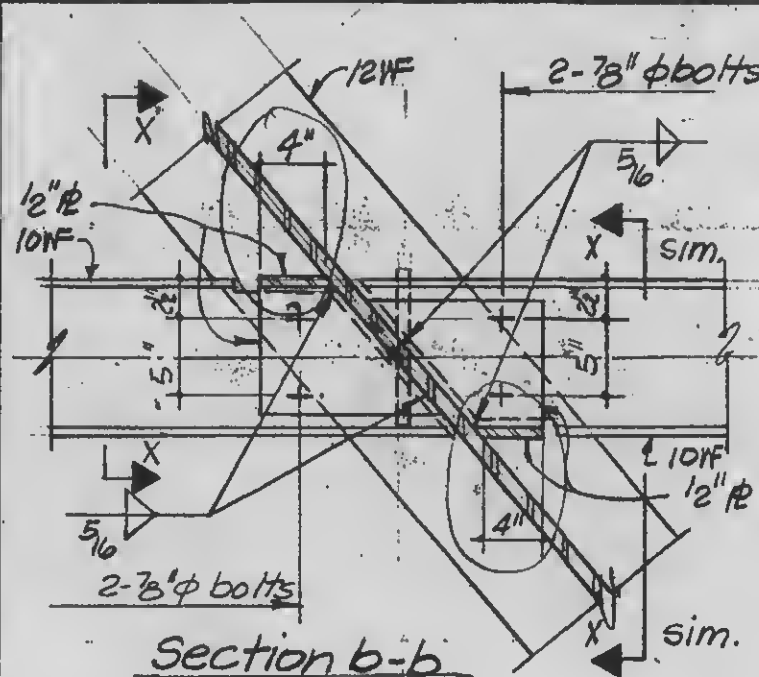
PROJECT THE WORLD TRADE CENTER

TITLE FL 107 PH CONNECTION DETAIL - FL 109

DATE 4-1-70

REVISIONS

6-15-70



DESIGNED

DRAWN P. Ozeki

REVIEWED

9AB22-1.2

SKILLING, HELLÉ, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

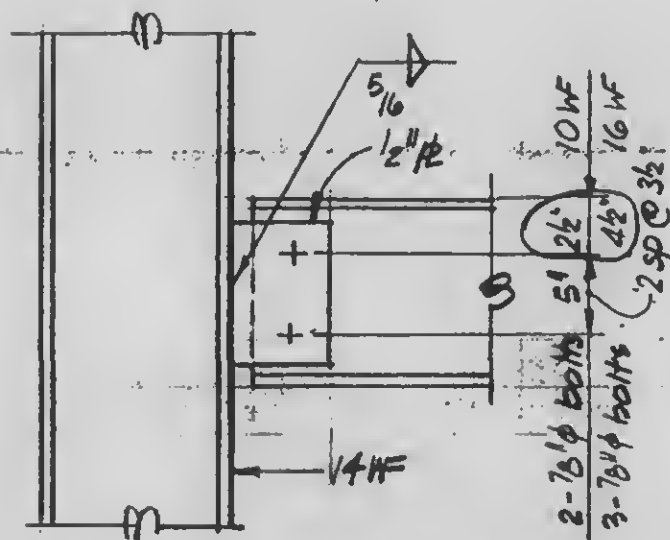
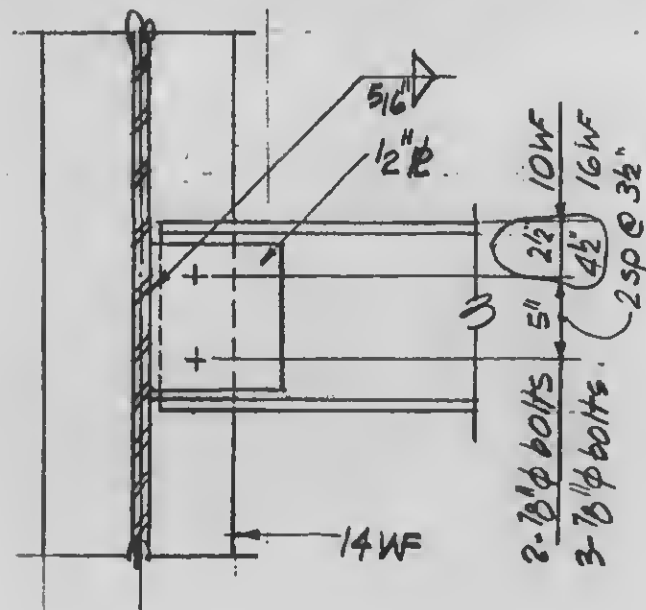
PROJECT THE WORLD TRADE CENTER

TITLE FL. 107-PH CONNECTION DETAILS - FL. 109

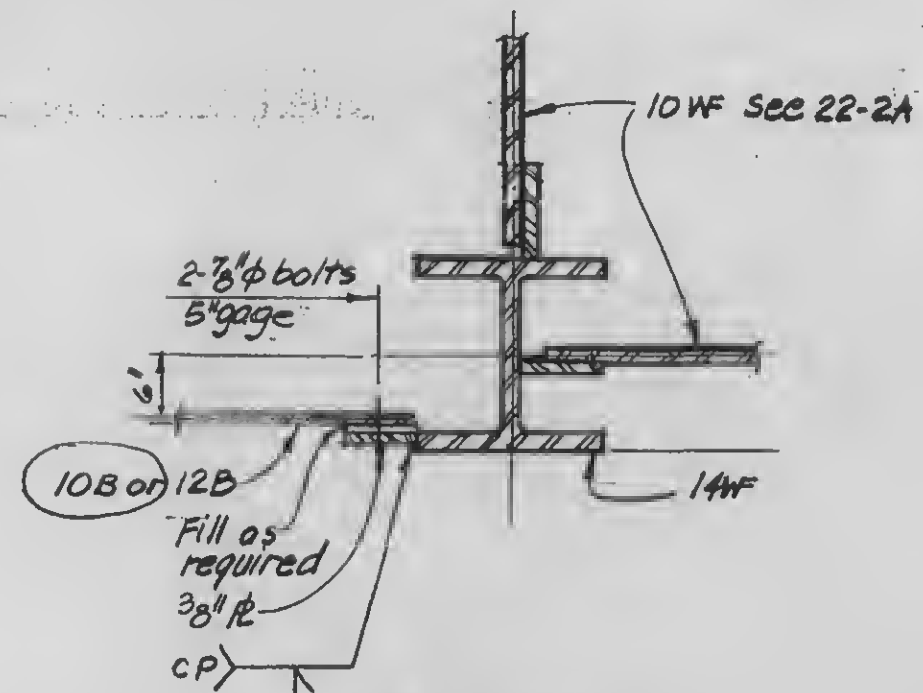
DATE 4-1-70

REVISIONS

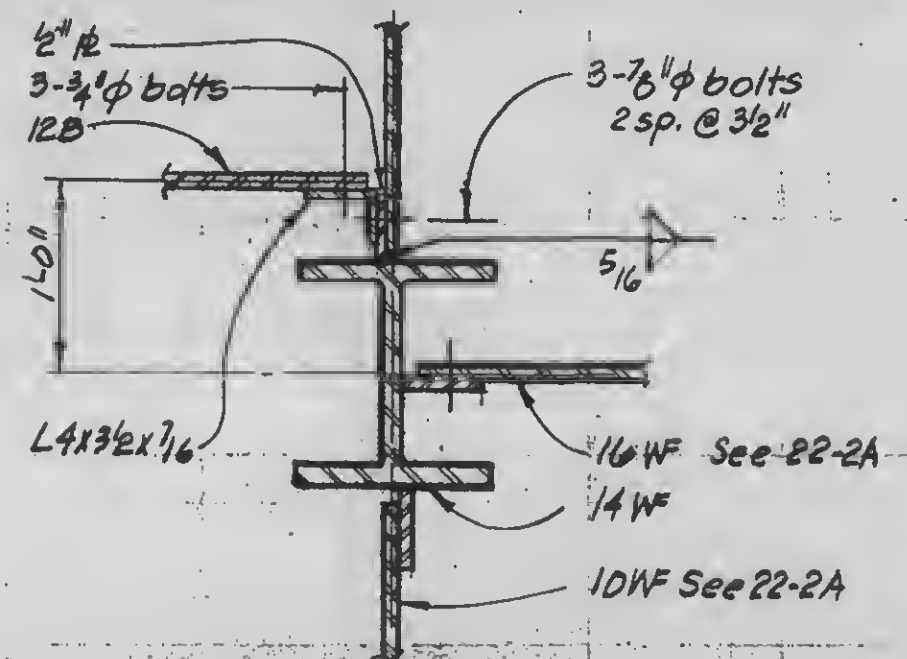
6-15-70



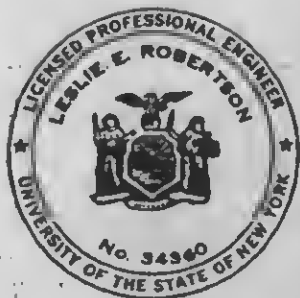
Detail 22-2A, B, C, E, F



Detail 22-2D



Detail 22-2G



DESIGNED

DRAWN

P.M. Ozeki

REVIEWED

9-AB22-2

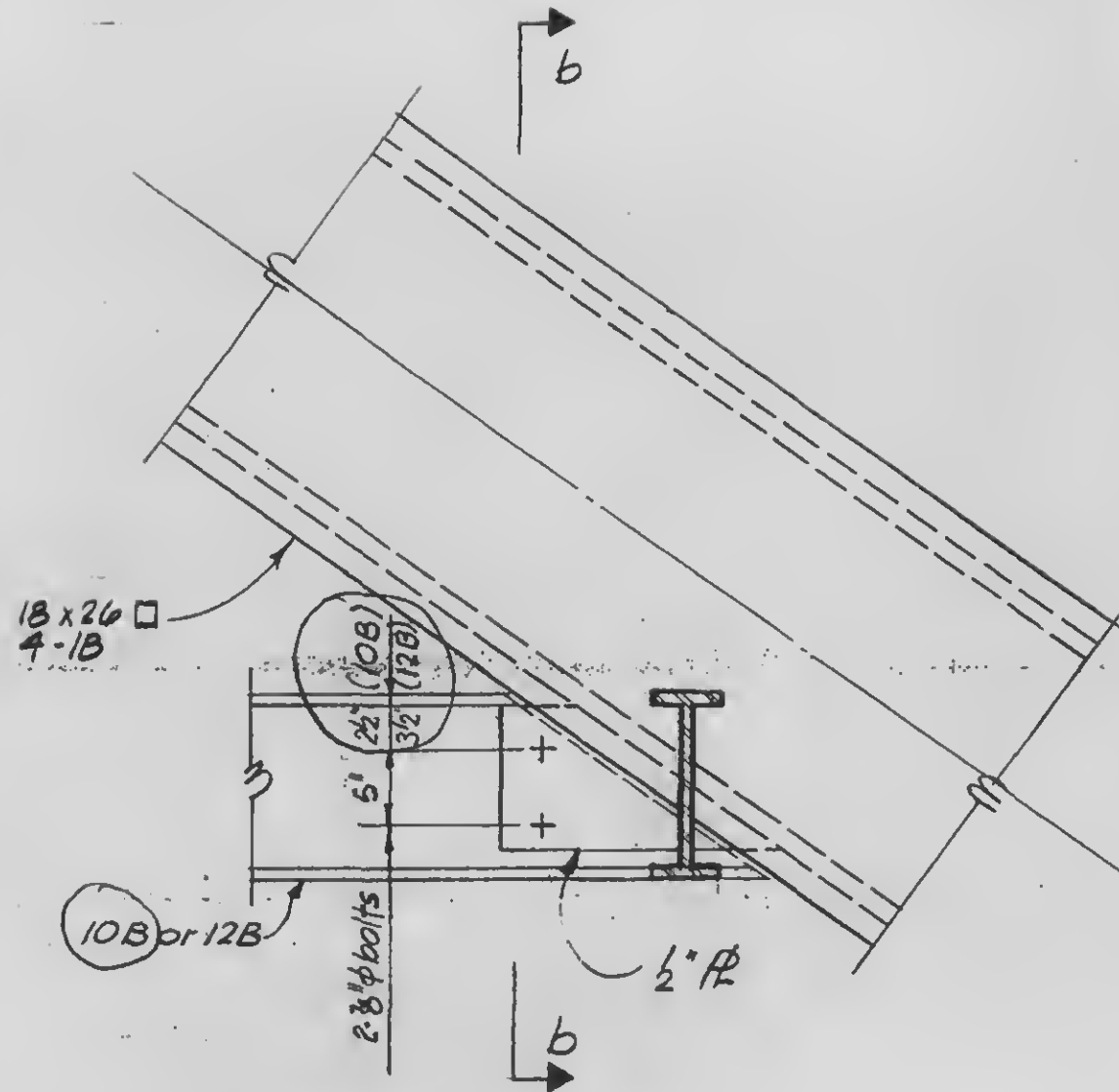
PROJECT THE WORLD TRADE CENTER

TITLE FL. 107 - PH. CONNECTION DETAILS - FL. 109

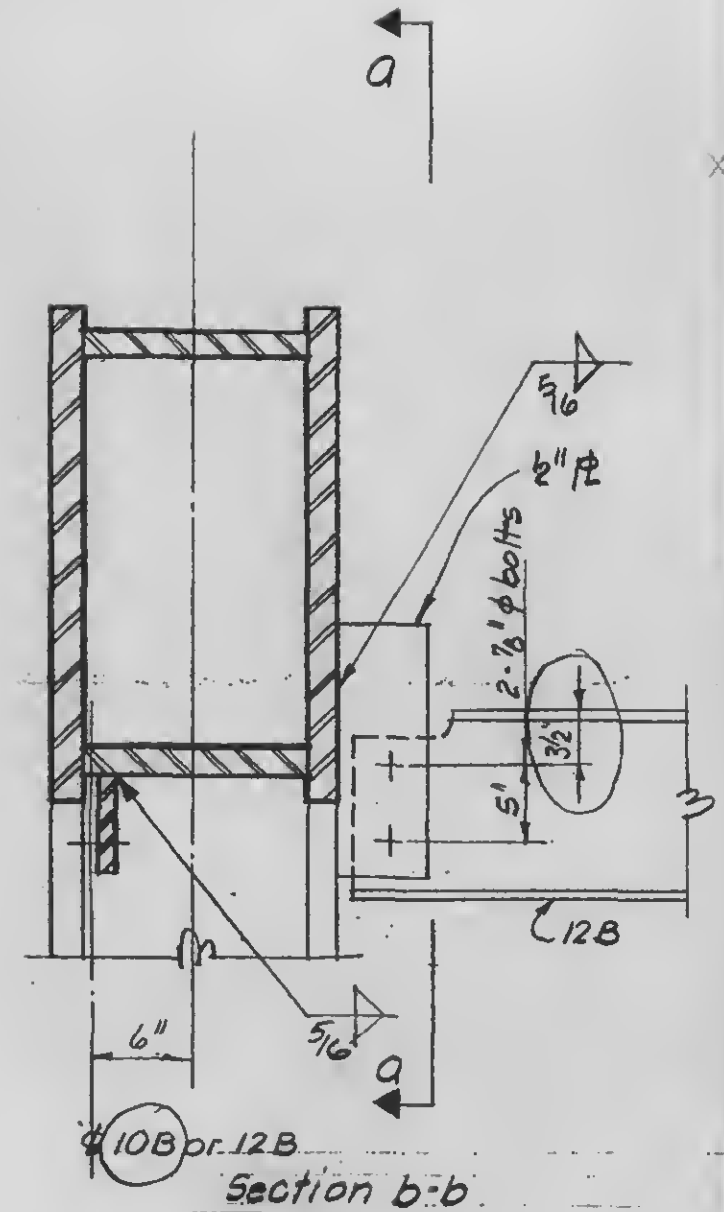
DATE 4-1-70

REVISIONS

6-15-70



Detail 22-3A



Detail 22-3B



DESIGNED

DRAWN P.M. Ozeki

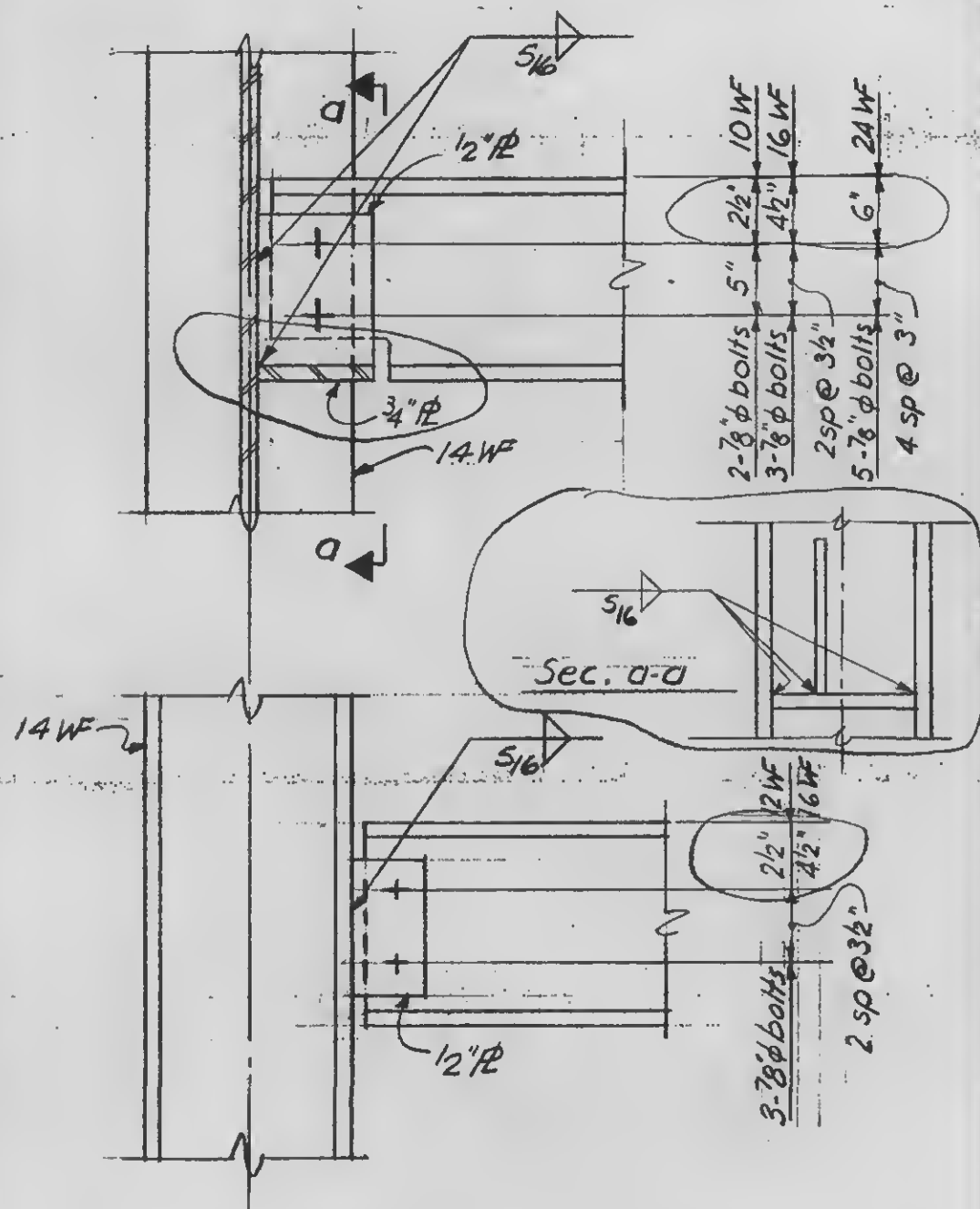
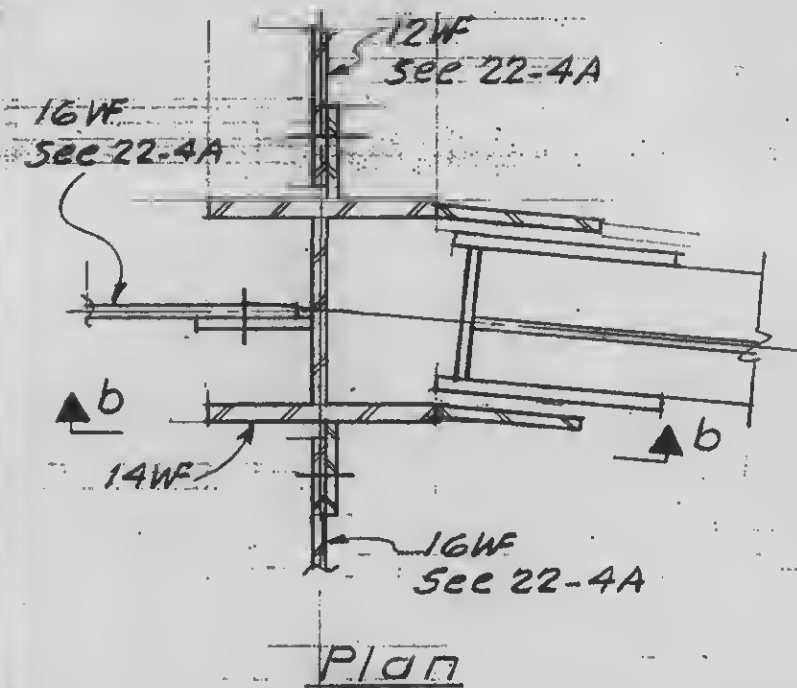
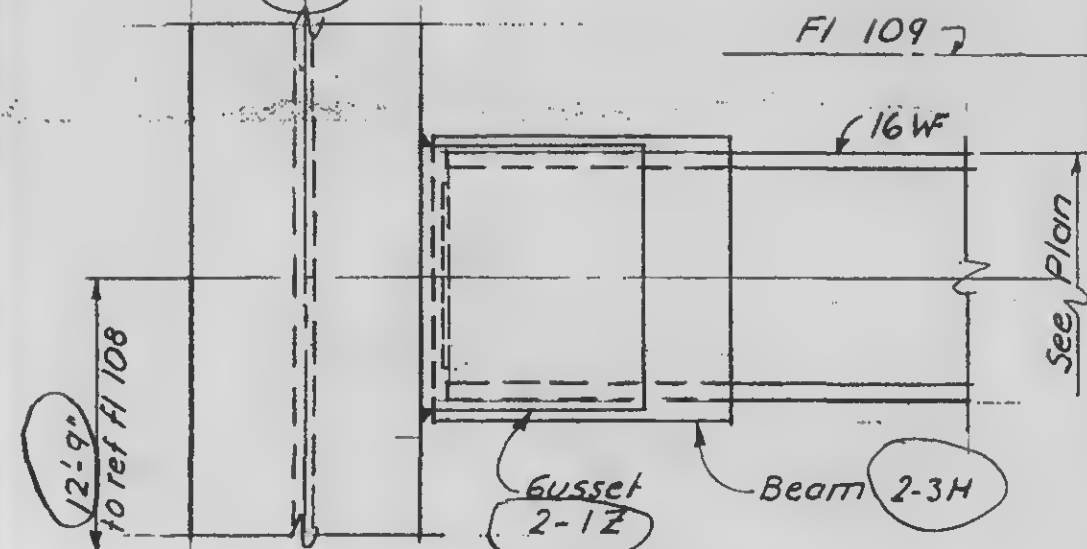
REVIEWED

9-AB22-3

PROJECT THE WORLD TRADE CENTERTITLE FL 107-PH CONNECTION DETAILS FL 109DATE 4-1-70

REVISIONS

6-15-70

Detail 22-4A, B, C, D, E, F, G, JPlanSection b-bDetail 22-4H

DESIGNED

DRAWN

AP

REVIEWED

9-AB22-4.1

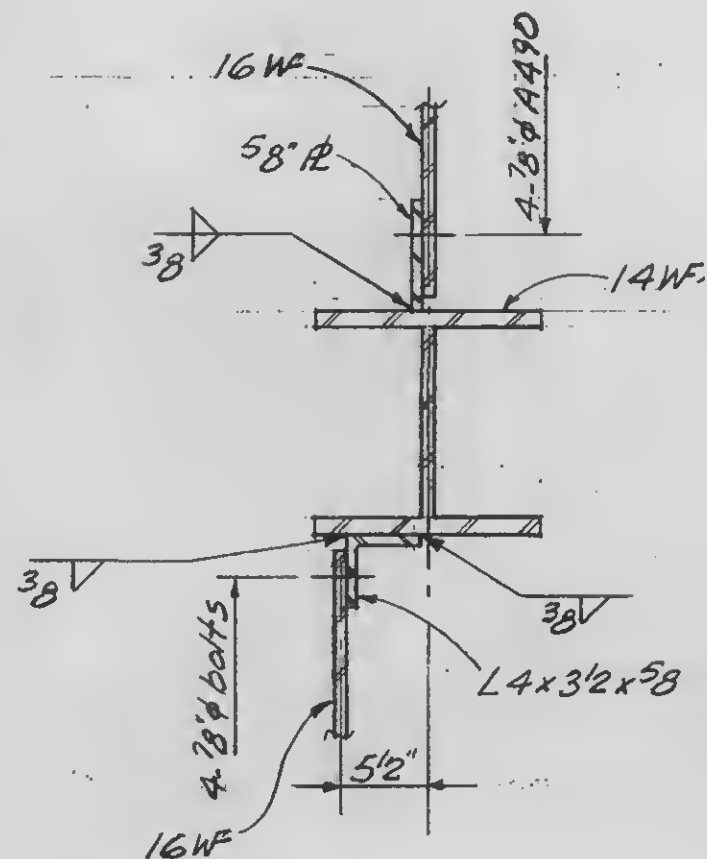
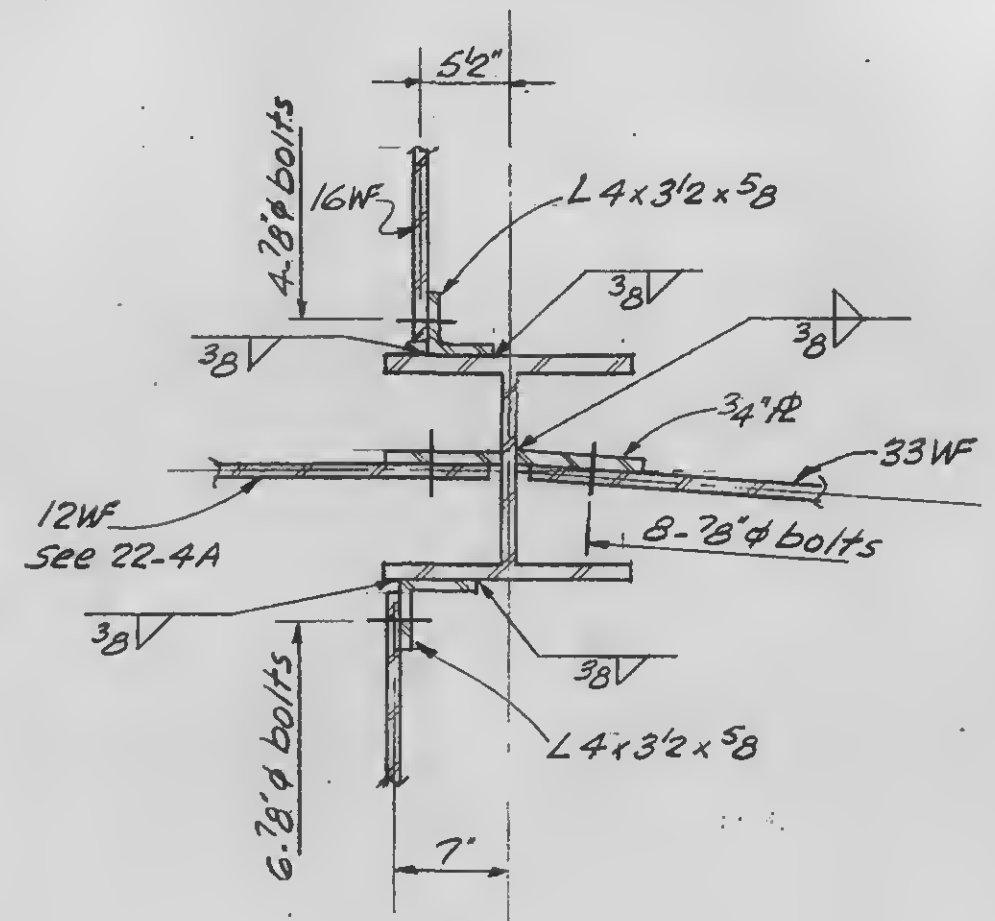
PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAILS-FL. 109

DATE 4-1-70

REVISIONS

6-15-70

Detail 22-4KDetail 22-4M

DESIGNED

DRAWN

REVIEWED

9-AB22-4.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

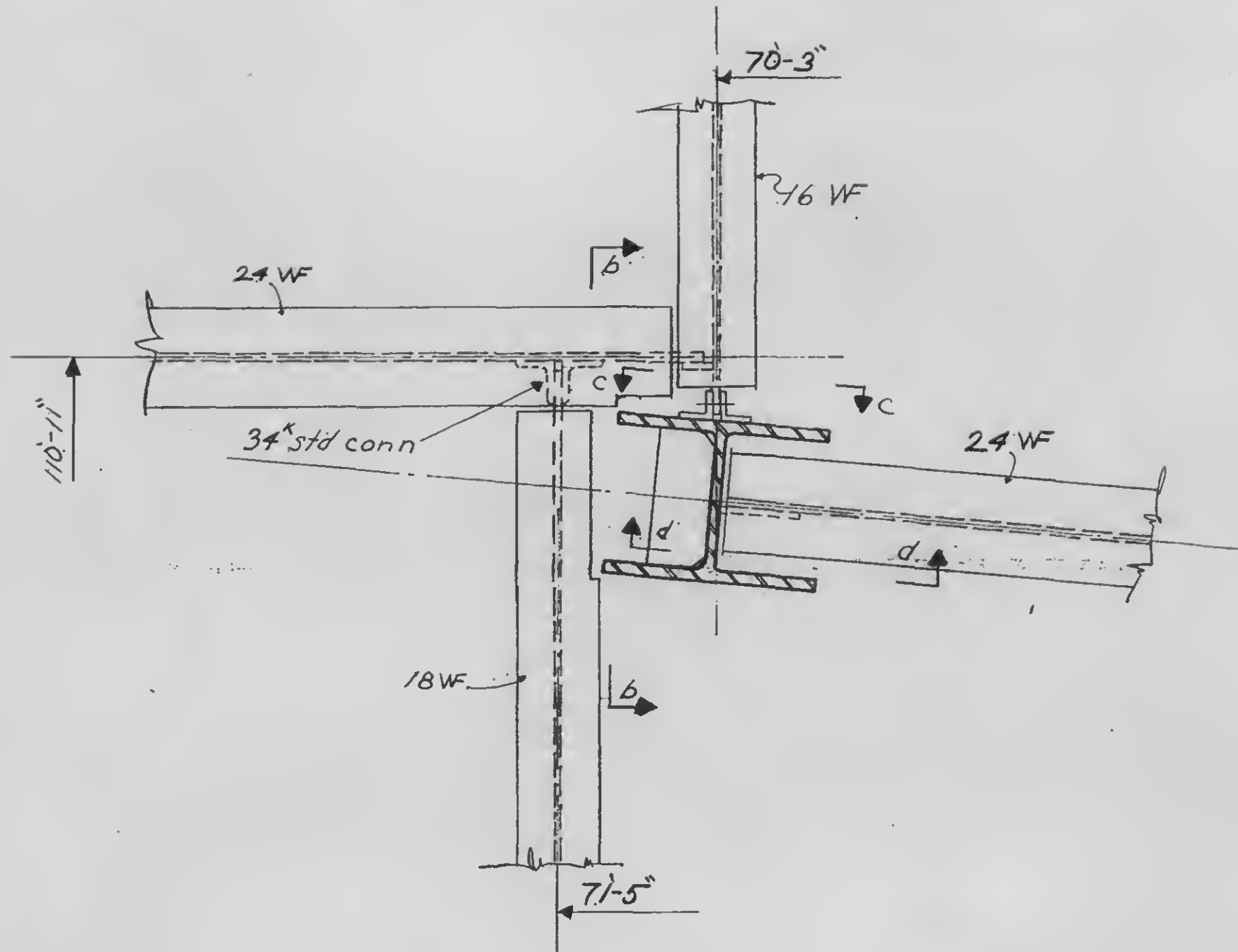
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE FL107-PH CONNECTION DETAILS-FL.109

DATE 6-15-70

REVISIONS



Plan

Detail 22-5A



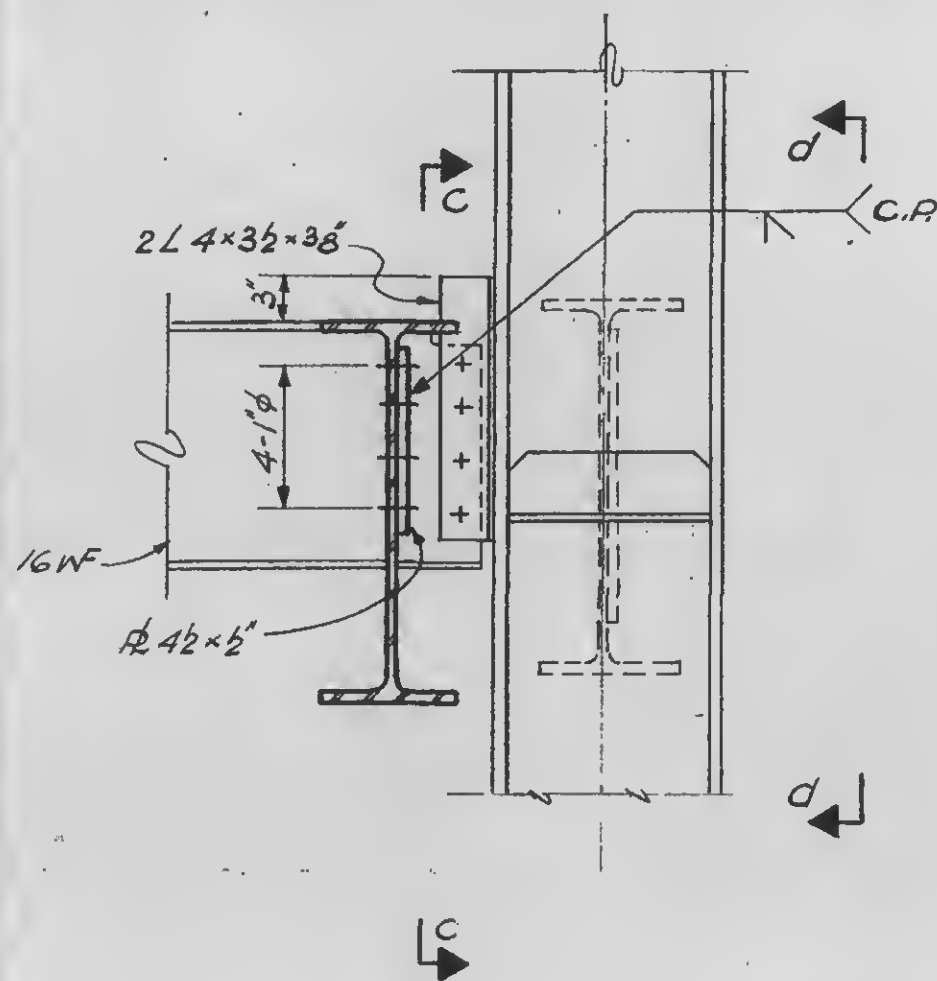
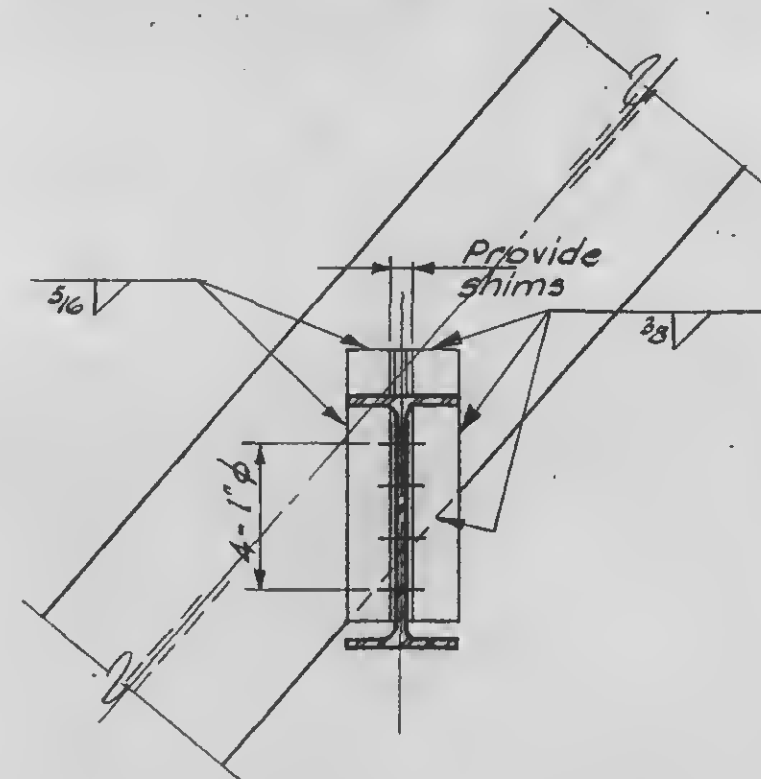
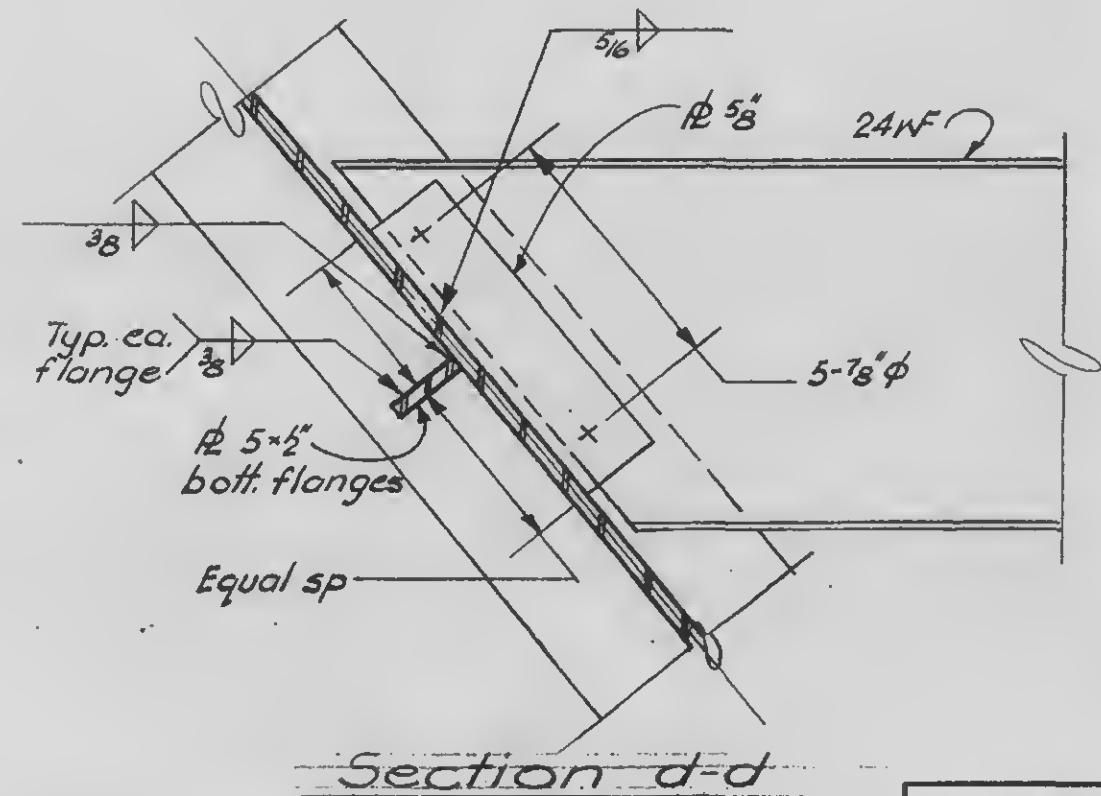
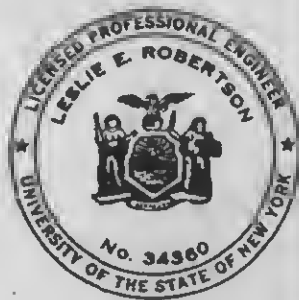
DESIGNED

DRAWN

REVIEWED

19-AB22-5.1

REVISIONS

Section b-bSection c-cSection d-d

DESIGNED

DRAWN

D. Huggins

REVIEWED

9-AB22-5.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

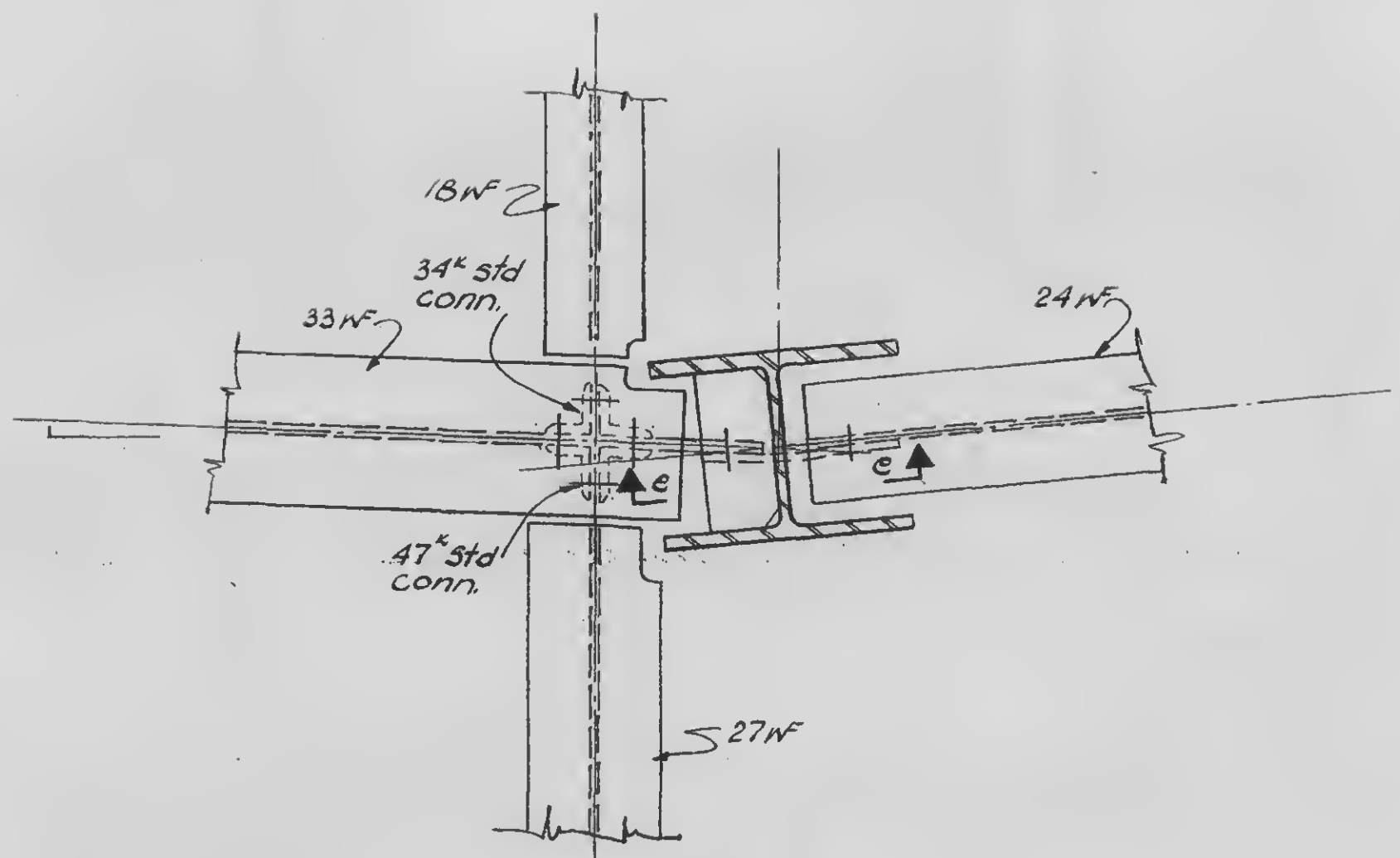
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAIL - FL 109

DATE 6-15-70

REVISIONS



DETAIL 22-5B



DESIGNED

DRAWN

REVIEWED

9-AB22-5.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

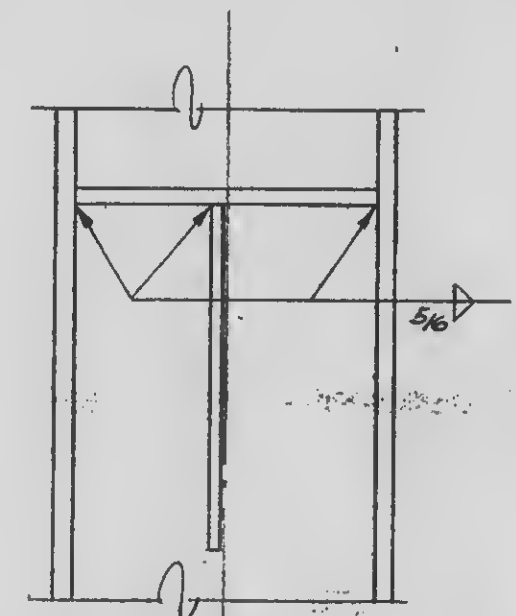
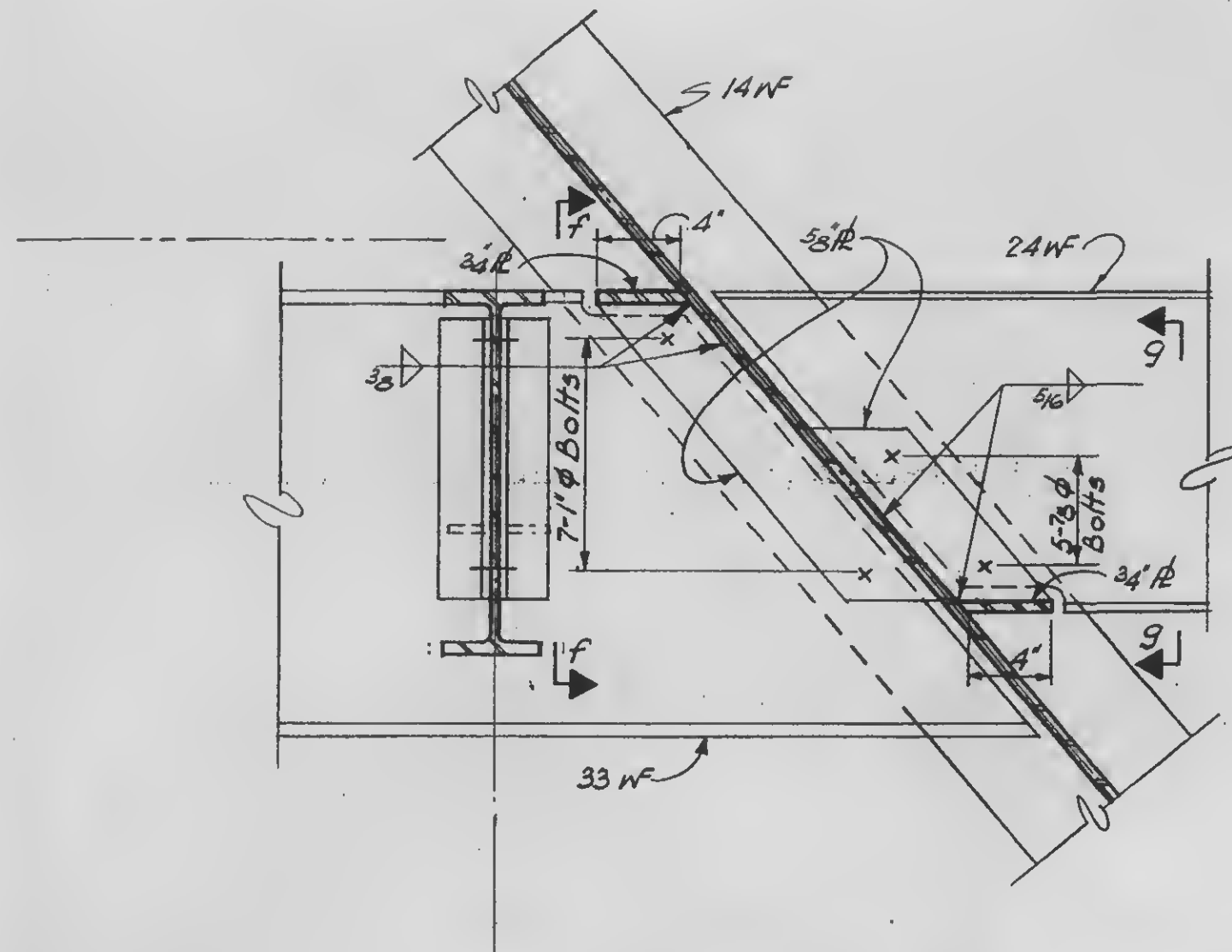
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE FL 107-PH CONNECTION DETAIL - FL 109

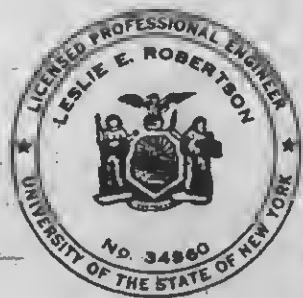
DATE 6-15-70

REVISIONS



Section f-f
Section g-g (sim)

Section e-e



DESIGNED

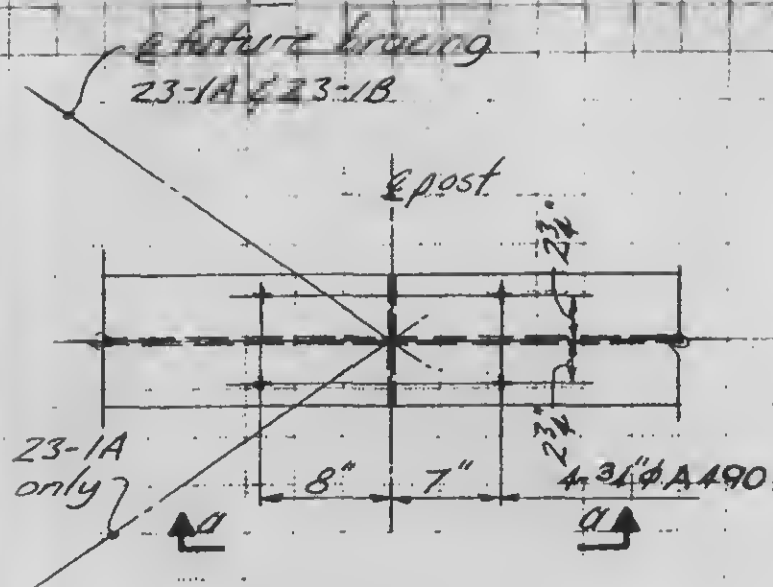
DRAWN

D. Huggins

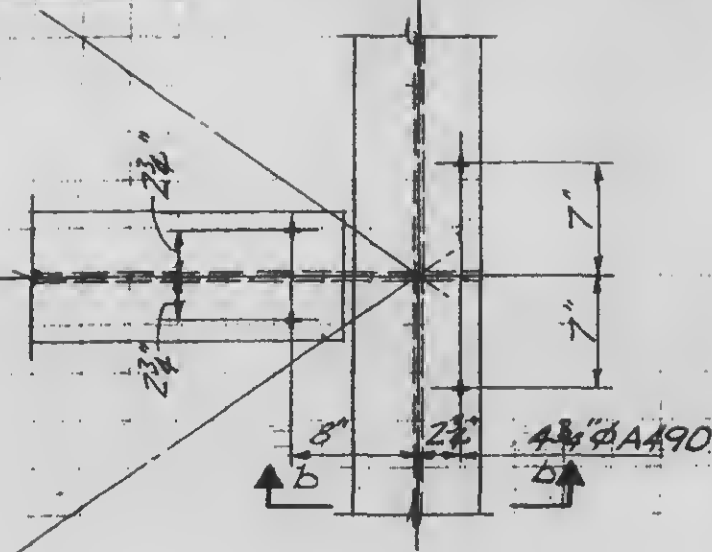
REVIEWED

9-AB22-5.4

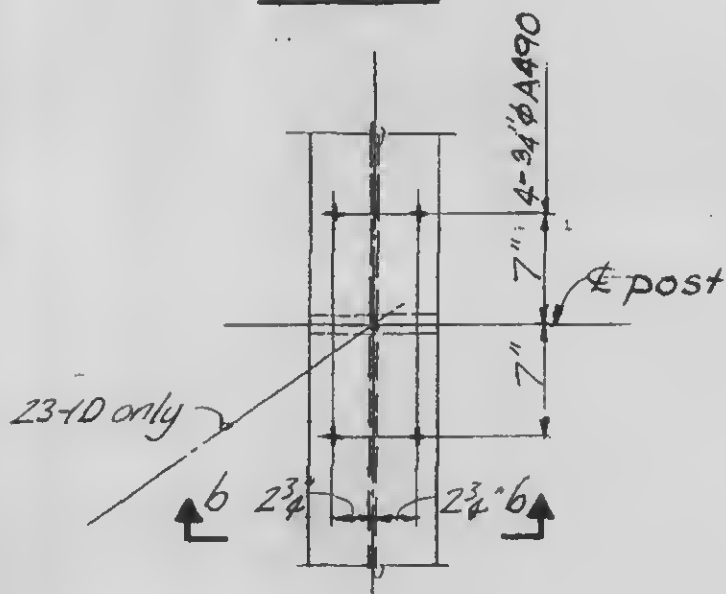
REVISIONS



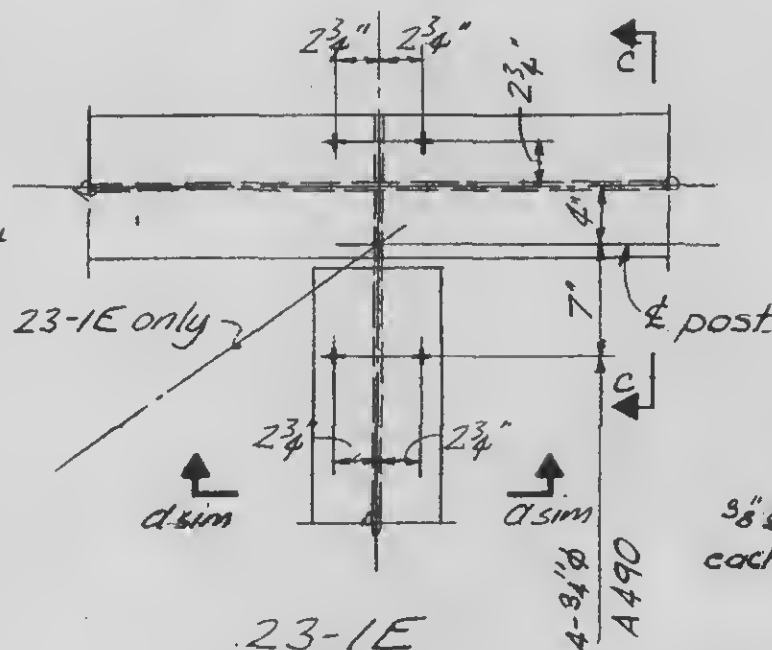
23-1A
23-1B



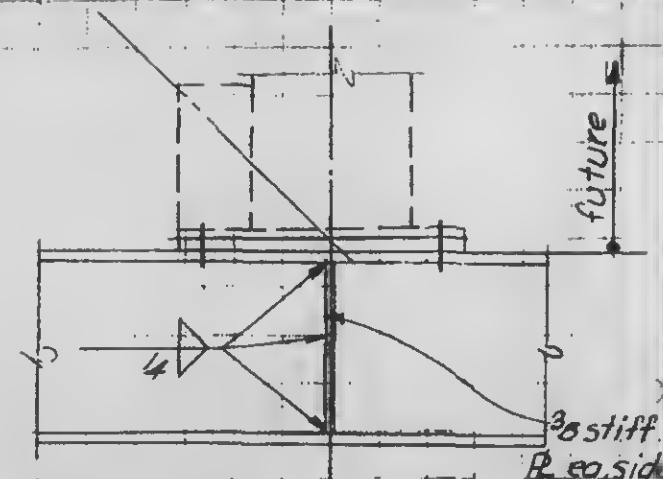
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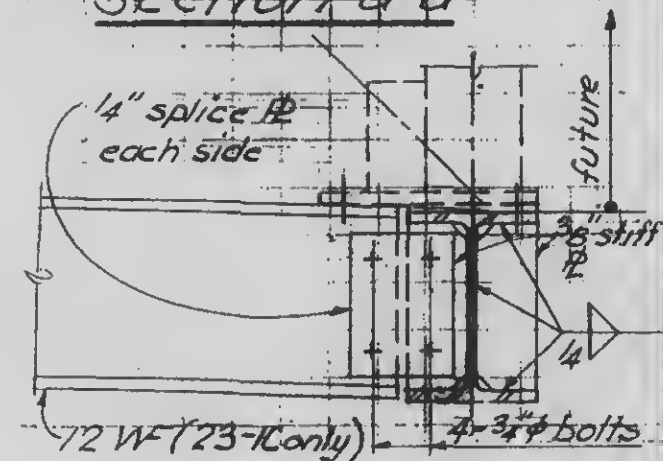
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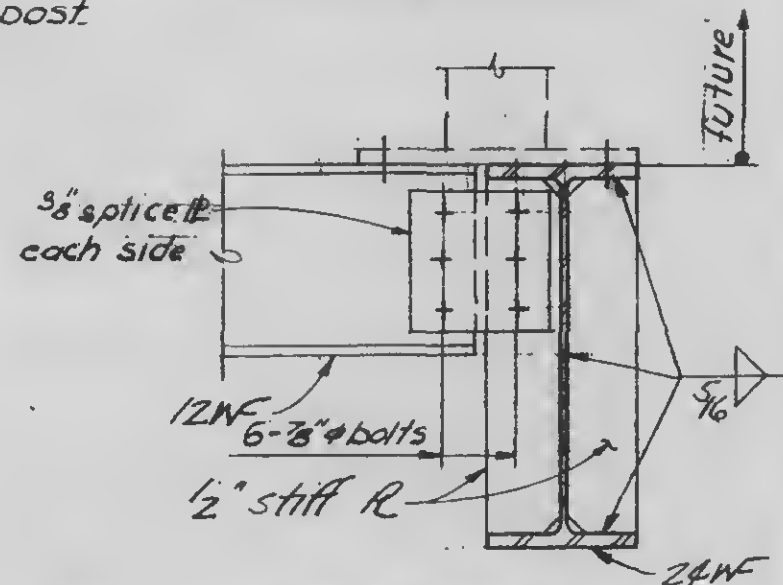
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23-1G



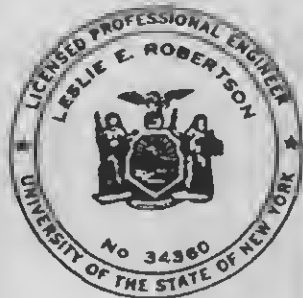
Section a-a



Section b-b



Section c-c



SIGNED

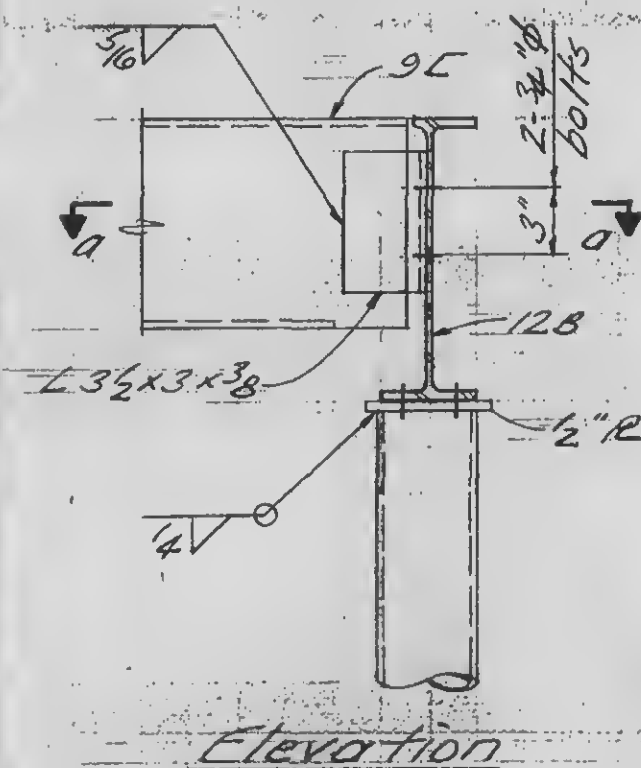
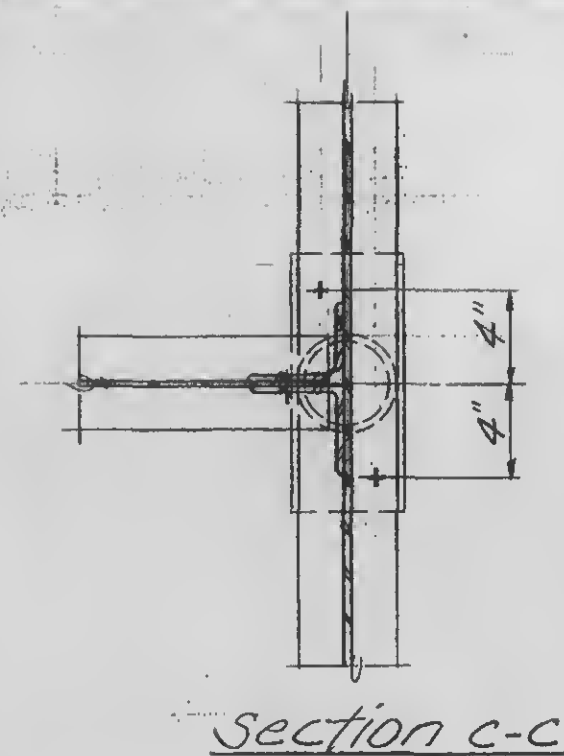
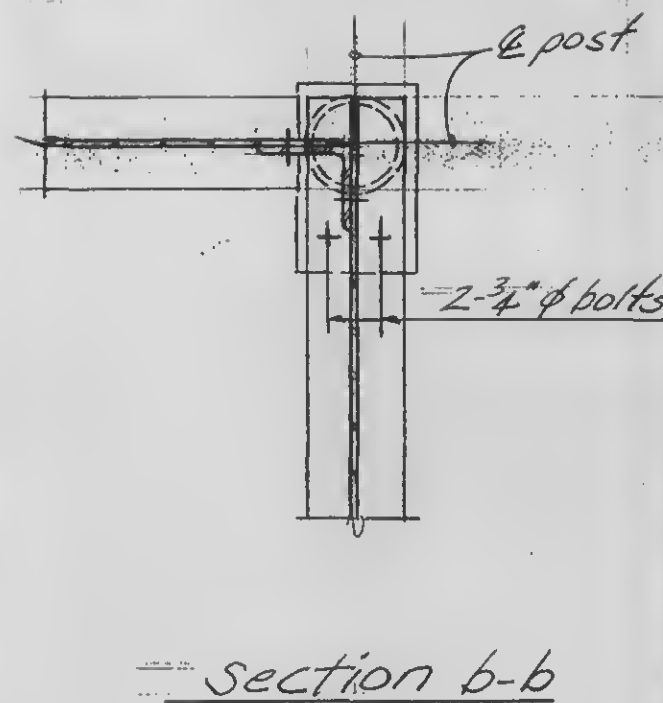
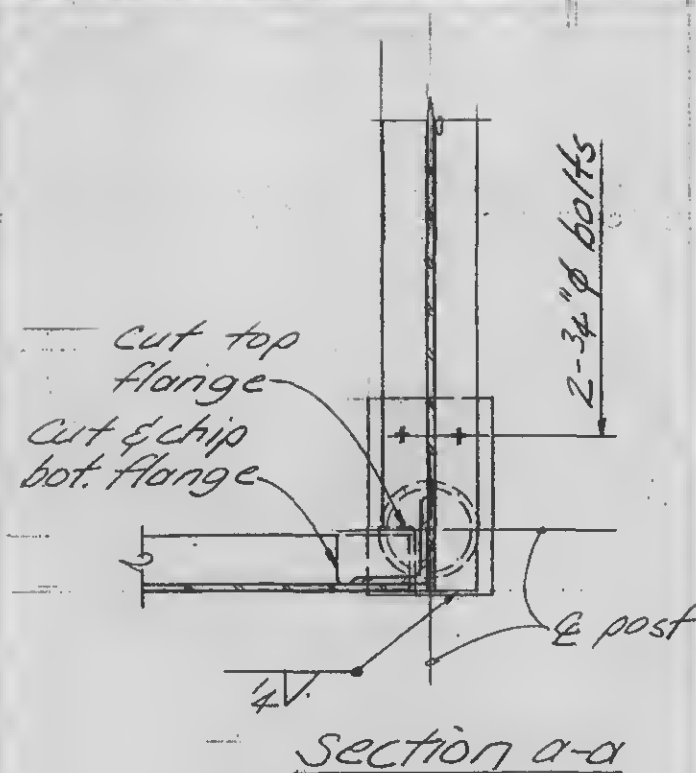
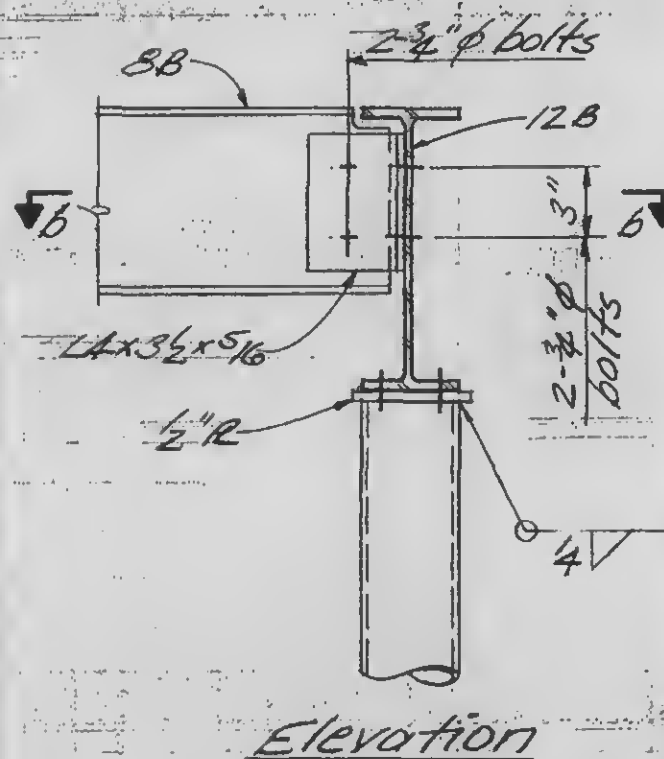
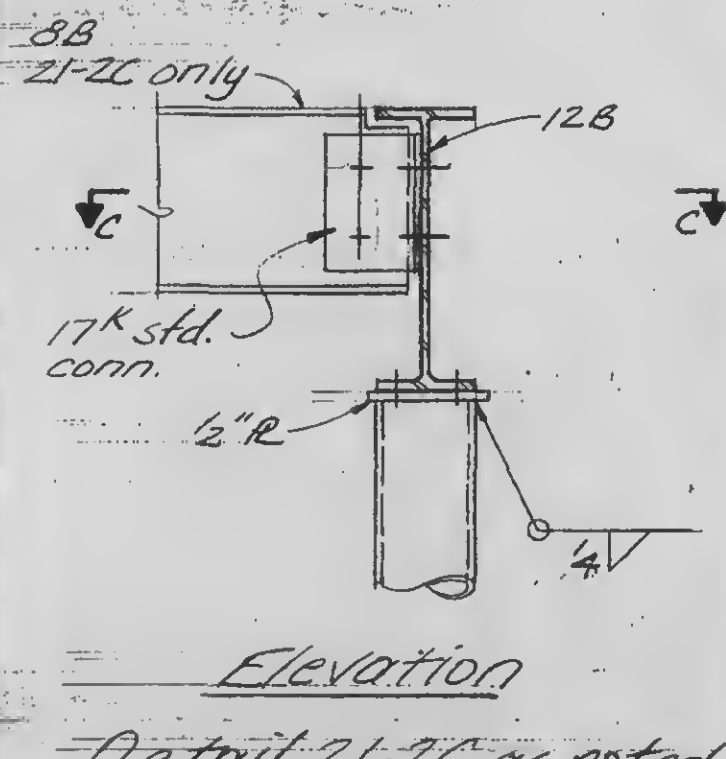
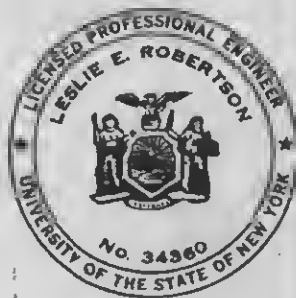
DRAWN
J. Adams

REVIEWED

9-B23-1

PROJECT THE WORLD TRADE CENTERTITLE FL. 107-PH CONNECTION DETAILS-POSTS & MISC.DATE 4-1-70

REVISIONS

5/27/70Detail 21-2ADetail 21-2BDetail 21-2C as noted
Detail 21-2D

DESIGNED

DRAWN

J. Adams

REVIEWED

W. Brewer

9-AB21-2.1

PROJECT

THE WORLD TRADE CENTER

TITLE

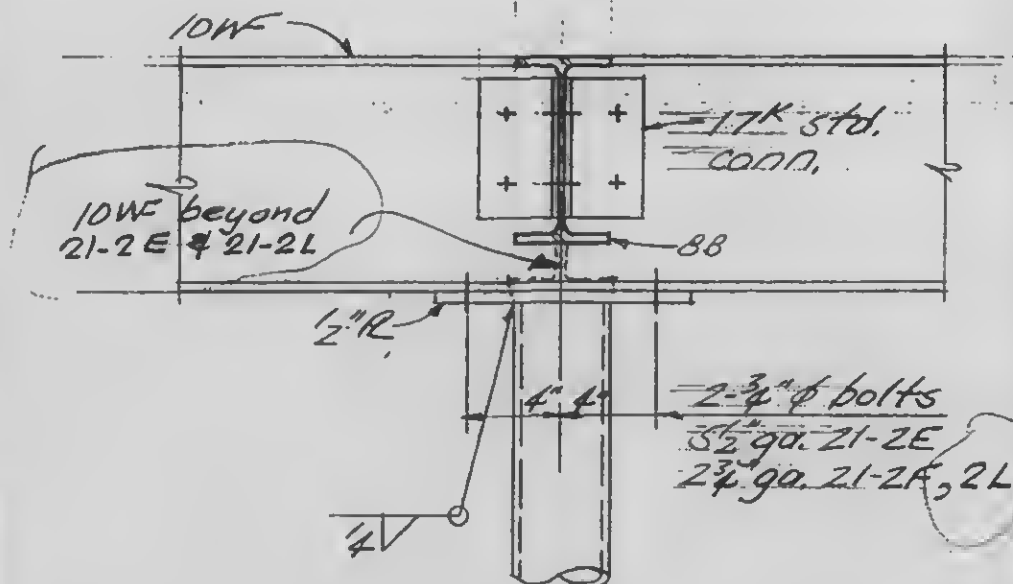
FLOOR 107-PH CONNECTION DETAILS POSTS & MISL

DATE

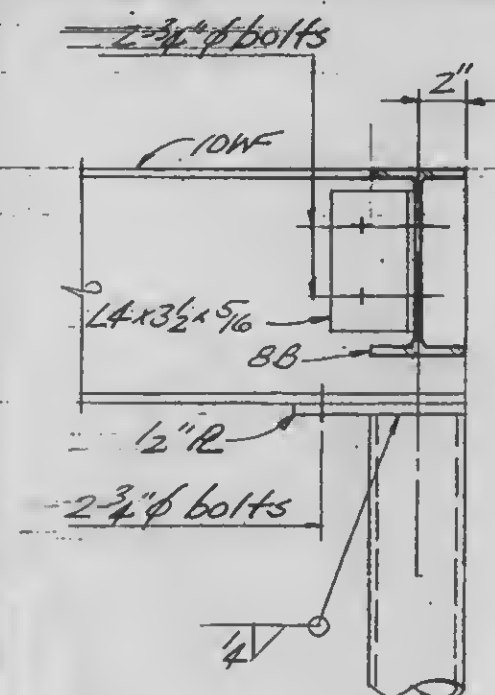
4-1-70

REVISIONS

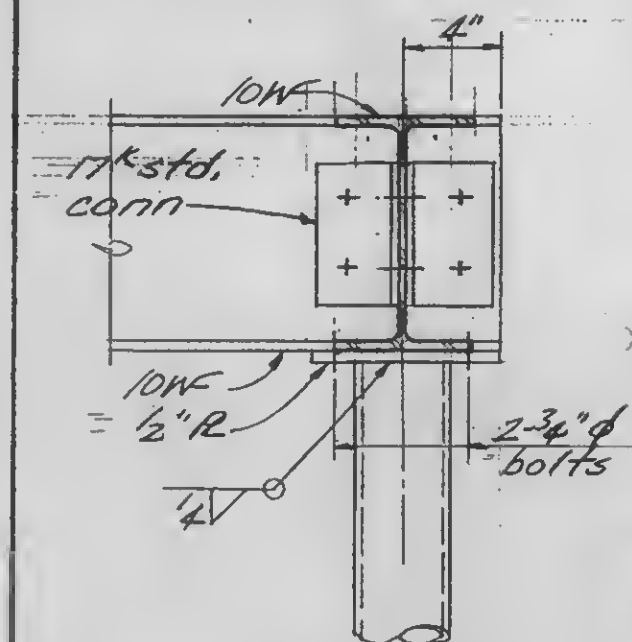
5/27/70



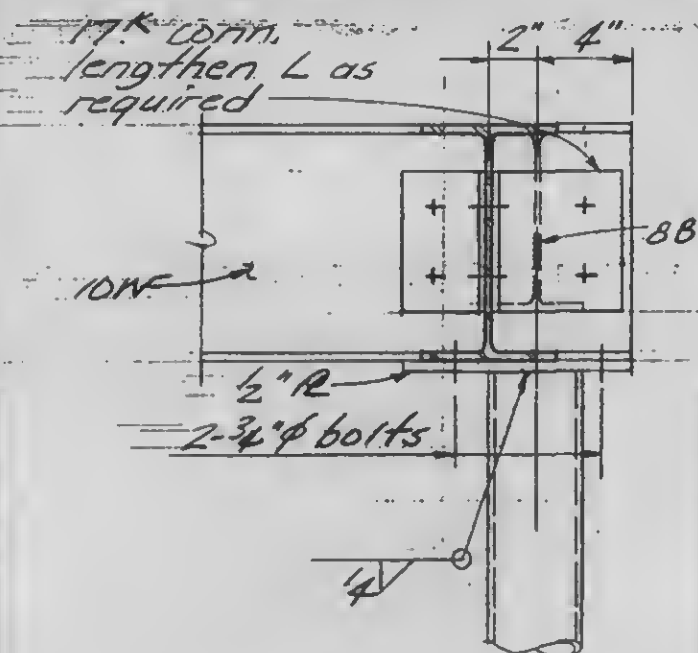
Detail 21-2E
Detail 21-2F & 2L



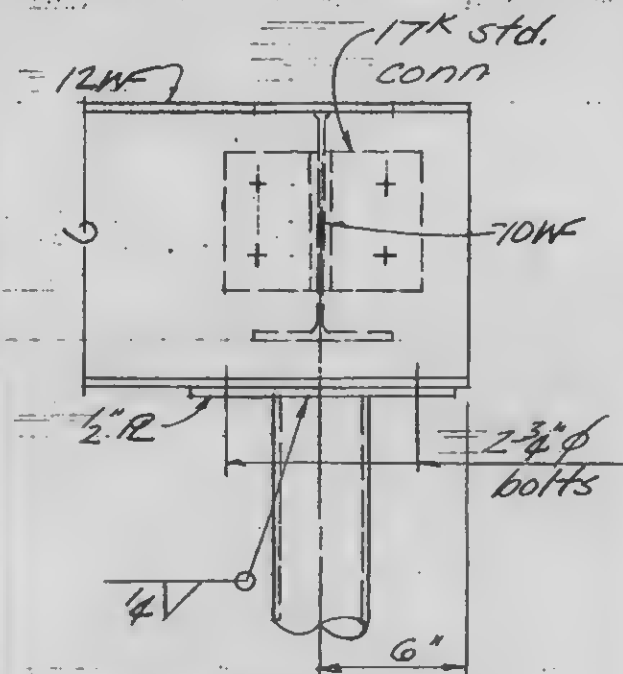
Detail 21-2G



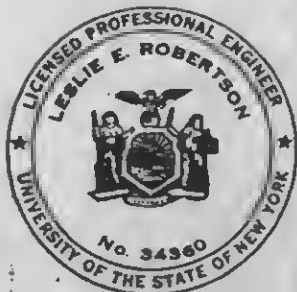
Detail 21-2H



Detail 21-2J



Detail 21-2K



DESIGNED

DRAWN

J. Adams

REVIEWED

W. Brewer

9-ABET-822

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

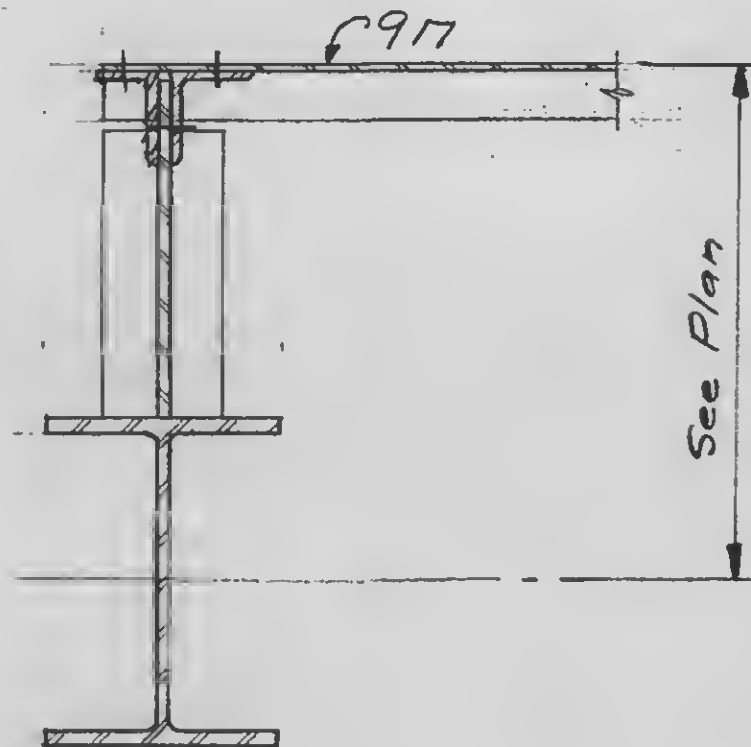
PROJECT THE WORLD TRADE CENTER

TITLE FL. 107-PH CONNECTION DETAILS-POSTS & MISC

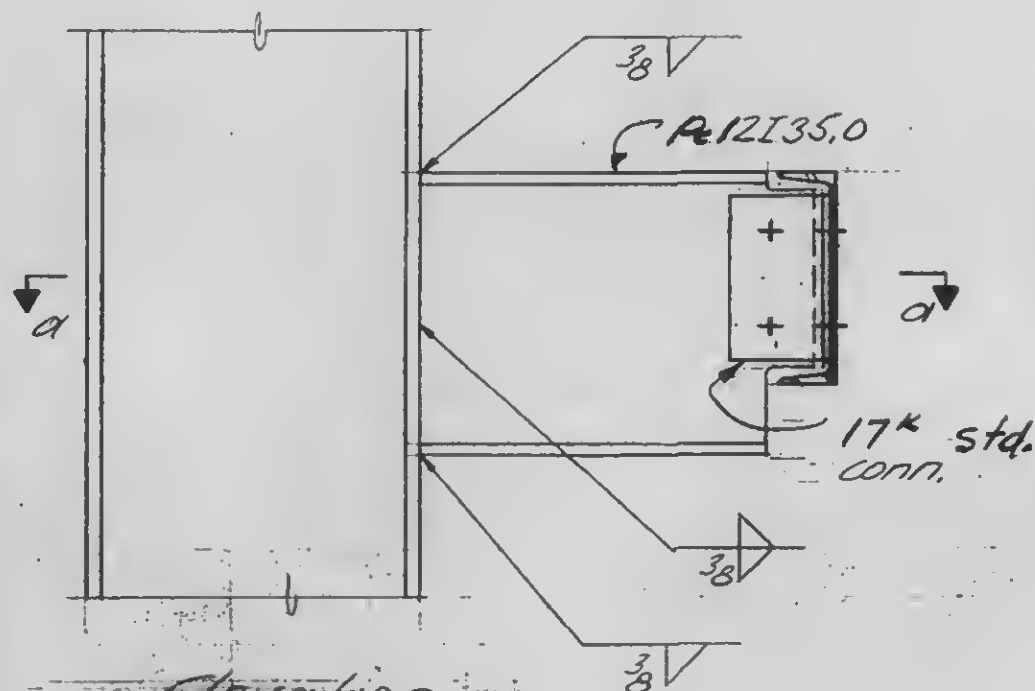
DATE 4-1-70

REVISIONS

5/27/70

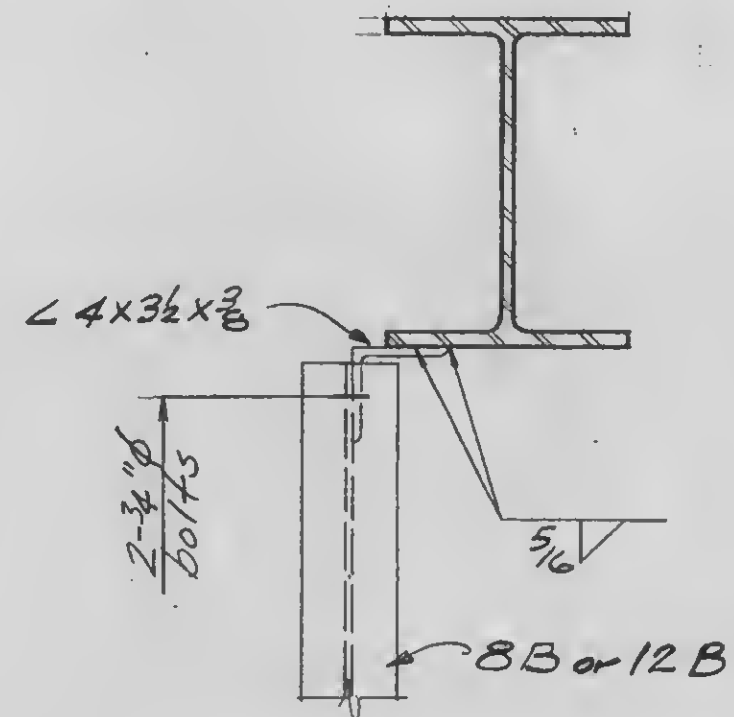


Section a-a

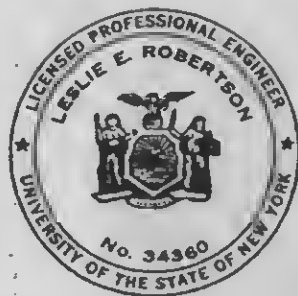


Elevation

Detail 21-3A



Detail 21-3B



DESIGNED

DRAWN

J. Adams

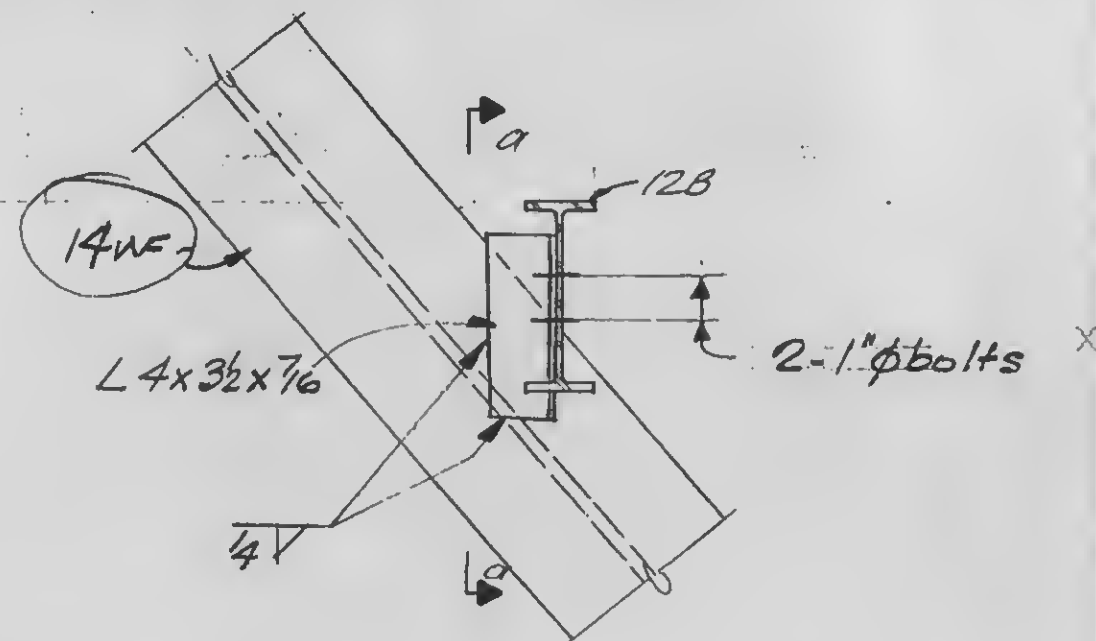
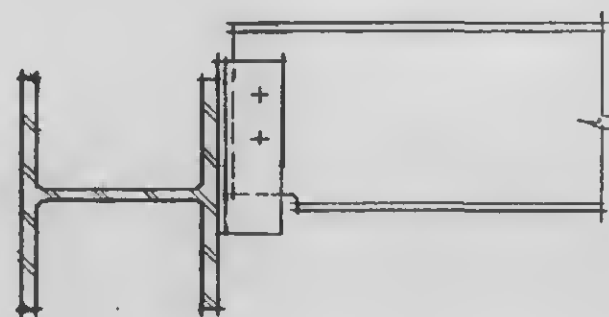
REVIEWED

W. Brewer

9-AB21-3.1

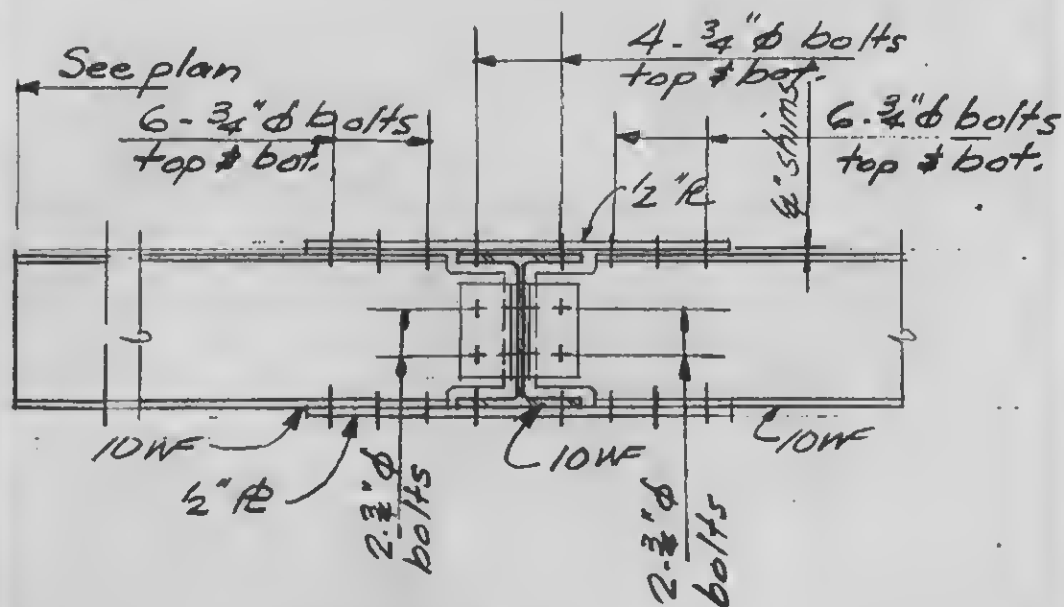
REVISIONS

5/27/70

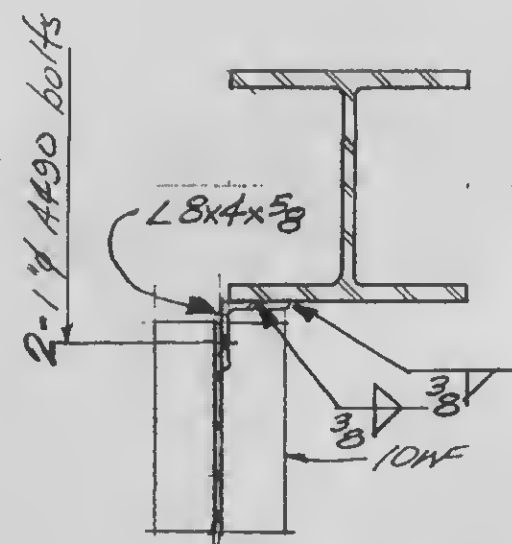


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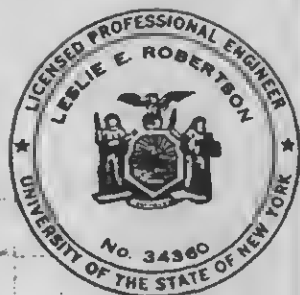
Detail 21-3C



Detail 21-3E



Detail 21-3F



DESIGNED

DRAWN

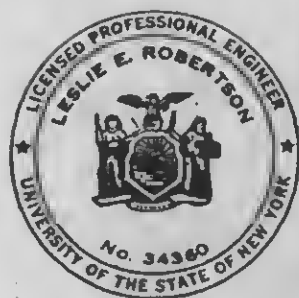
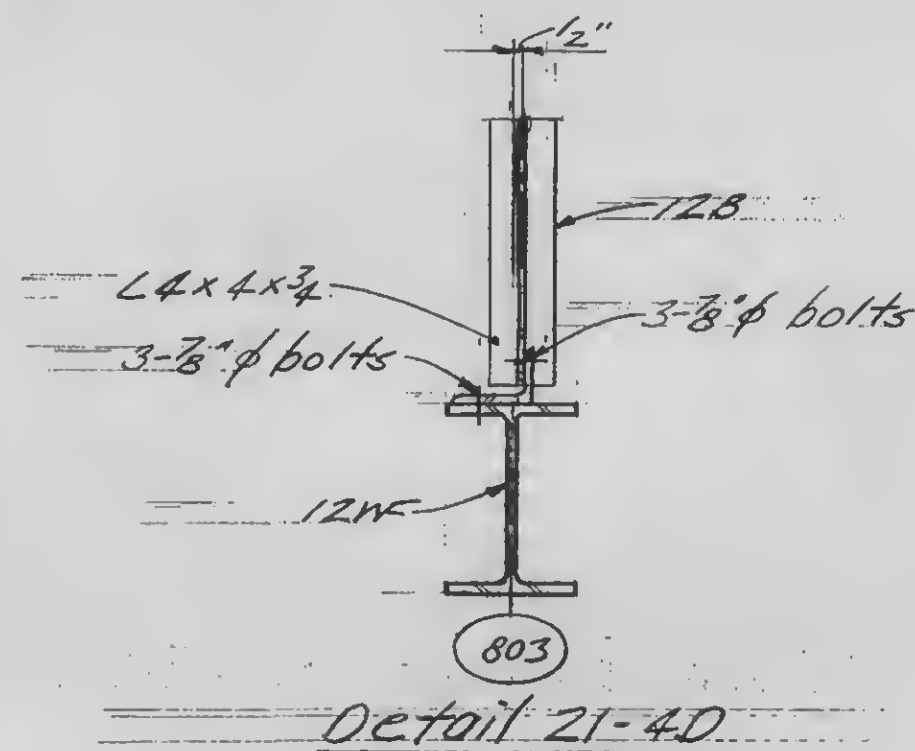
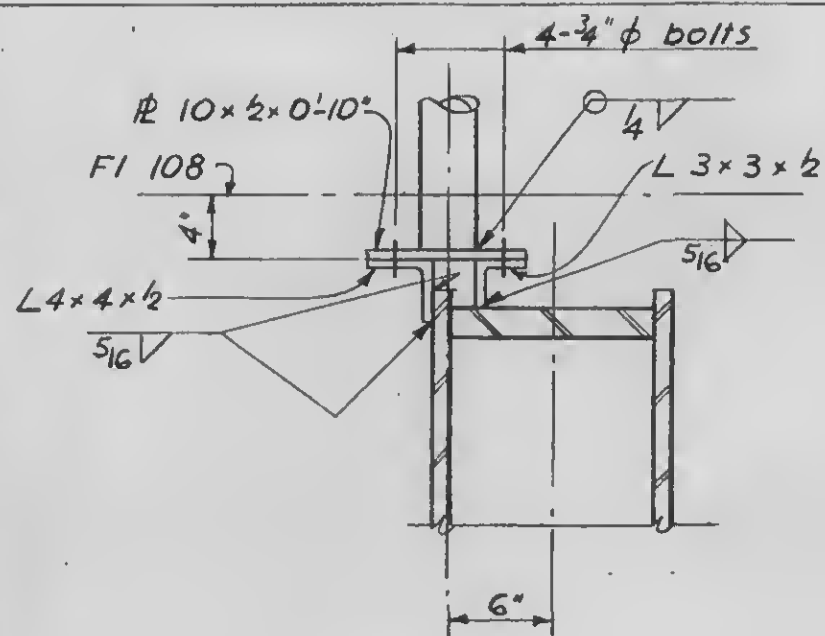
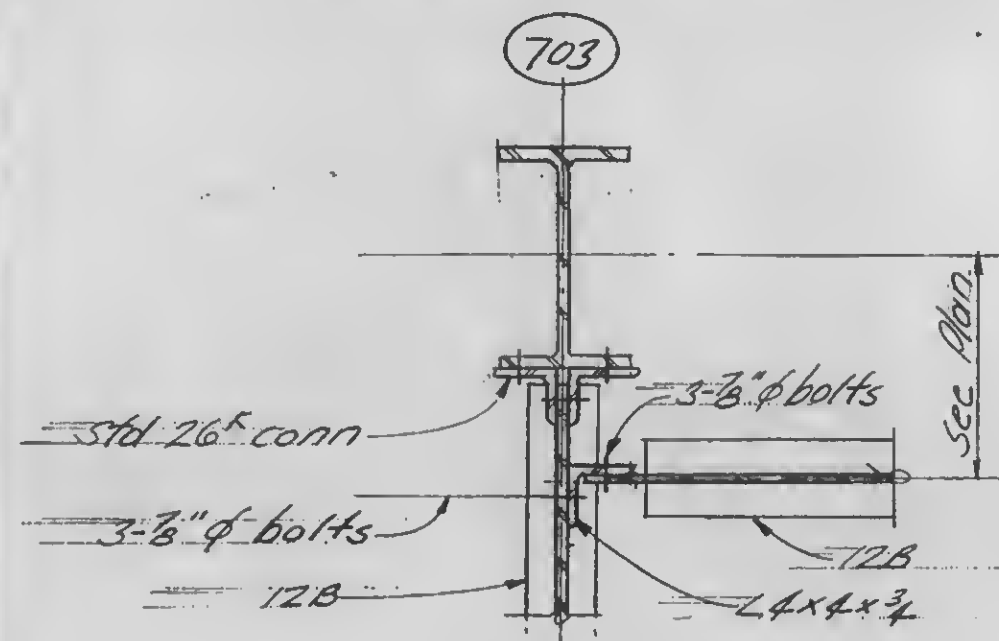
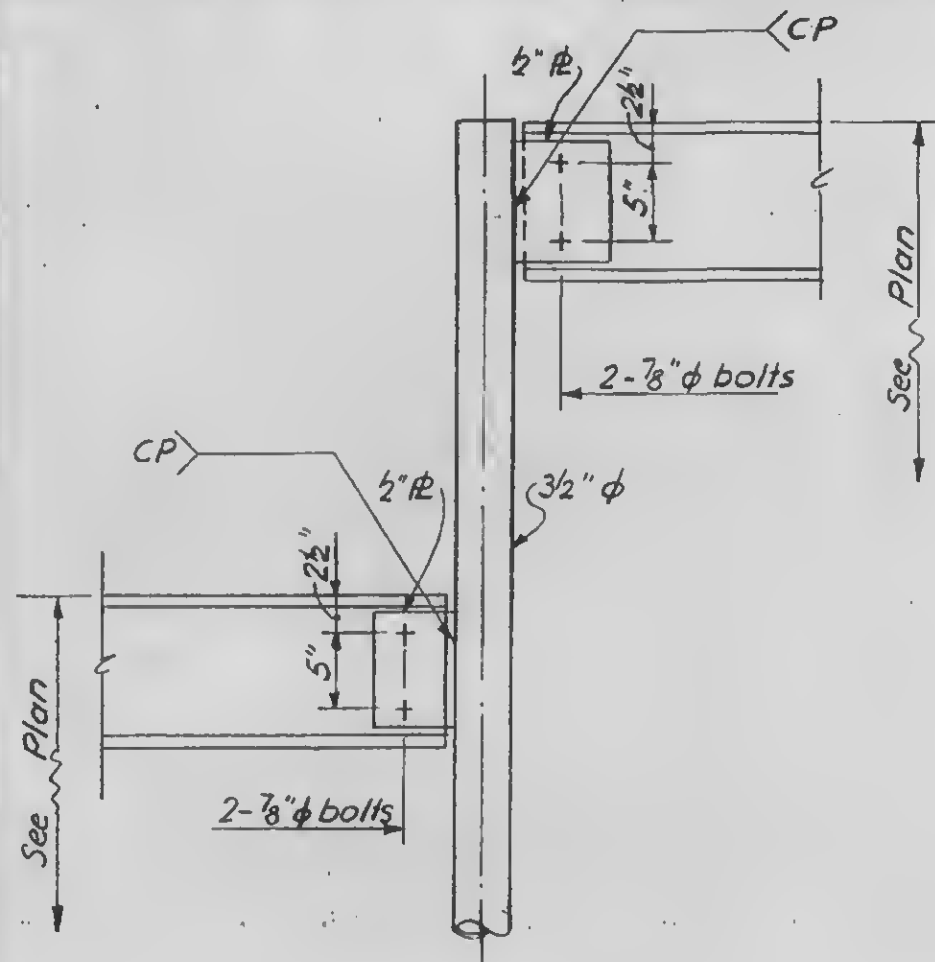
REVIEWED

W. Brewer

9-AB21-3.2

PROJECT THE WORLD TRADE CENTERTITLE FL 107-PH, CONNECTION DETAILS-POSTS & MISCDATE 6-15-70

REVISIONS



DESIGNED

DRAWN
F. Smith

REVIEWED

9-AB 21-4

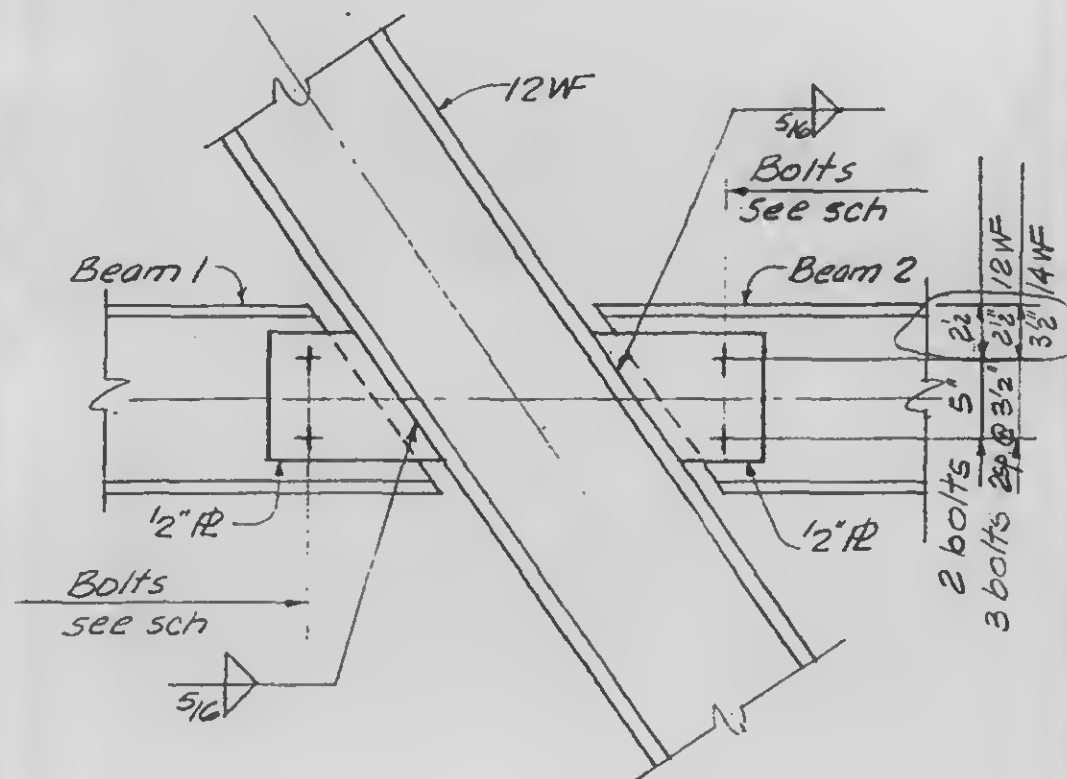
PROJECT THE WORLD TRADE CENTER

TITLE FL 101-PH CONNECTION DETAIL - FL 109

DATE 4-1-70

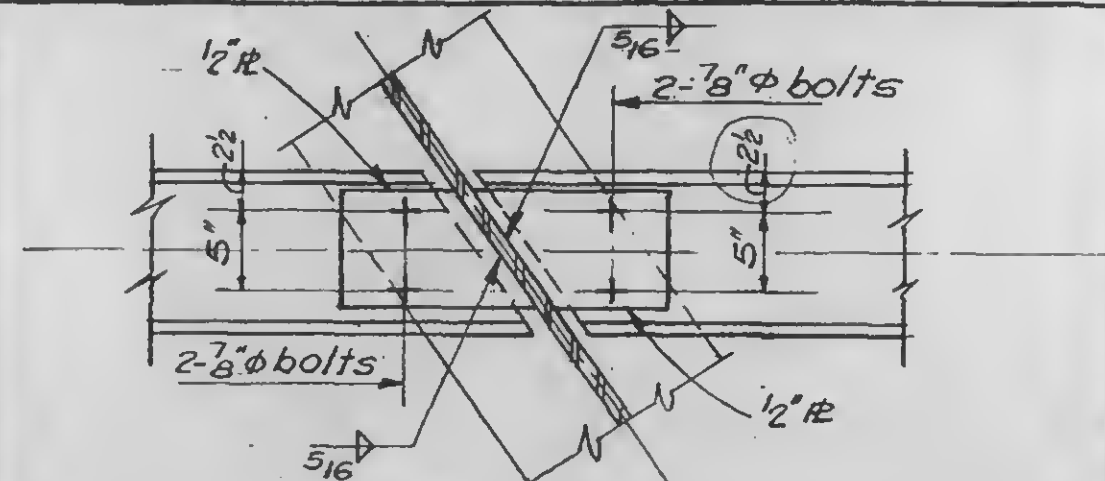
REVISIONS

6-15-70

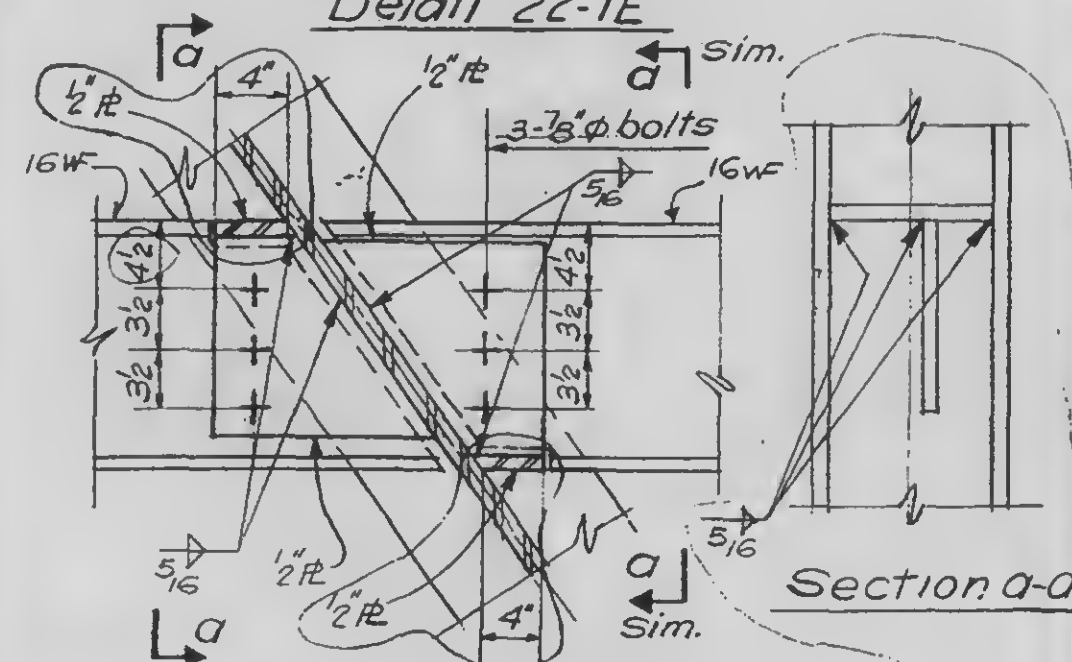


Detail	Beam 1	Bolts	Beam 2	Bolts
22-1A	10WF	2-7/8"	10WF	2-7/8"
22-1B	14WF	3-7/8"	14WF	3-7/8"
22-1C	12WF	3-7/8"	12WF	3-7/8"
22-1D	12WF	3-7/8"	14WF	3-7/8"

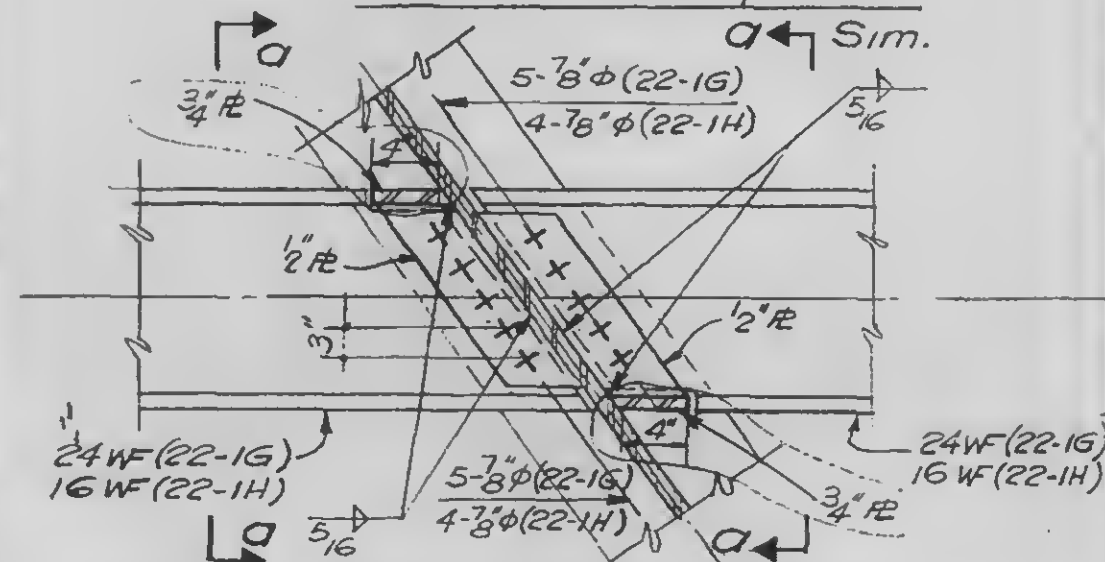
Detail 22-1A, B, C, D



Detail 22-1E



Detail 22-1E & 22-1F



Detail 22-1G & 22-1H

9-AB22-1.1



DESIGNED

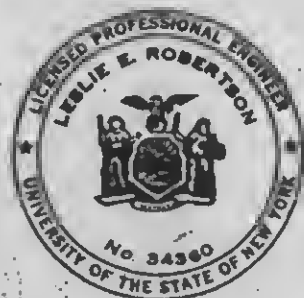
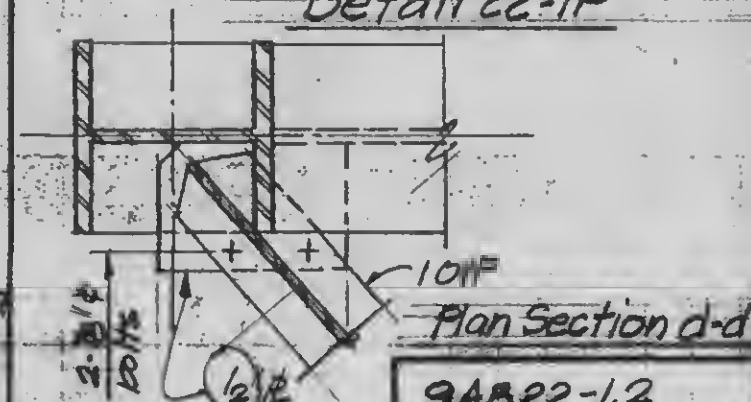
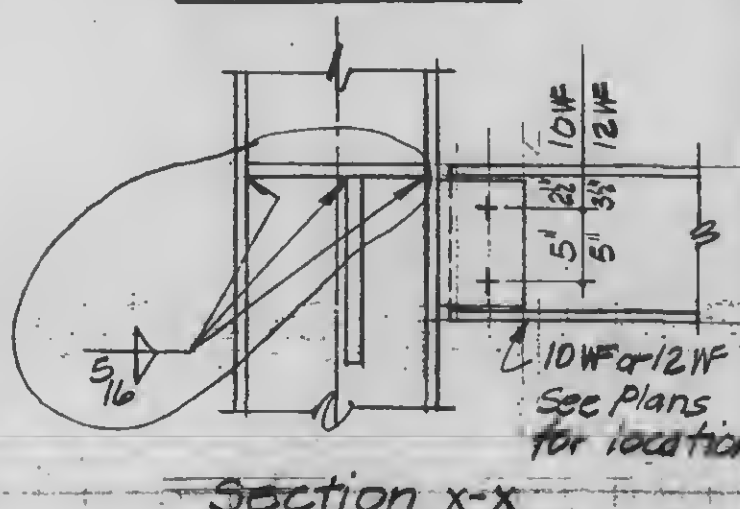
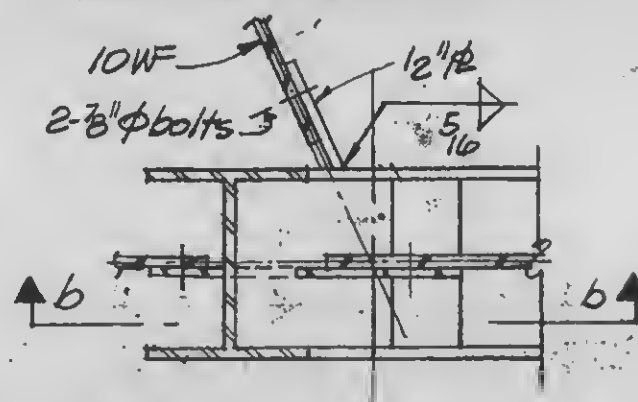
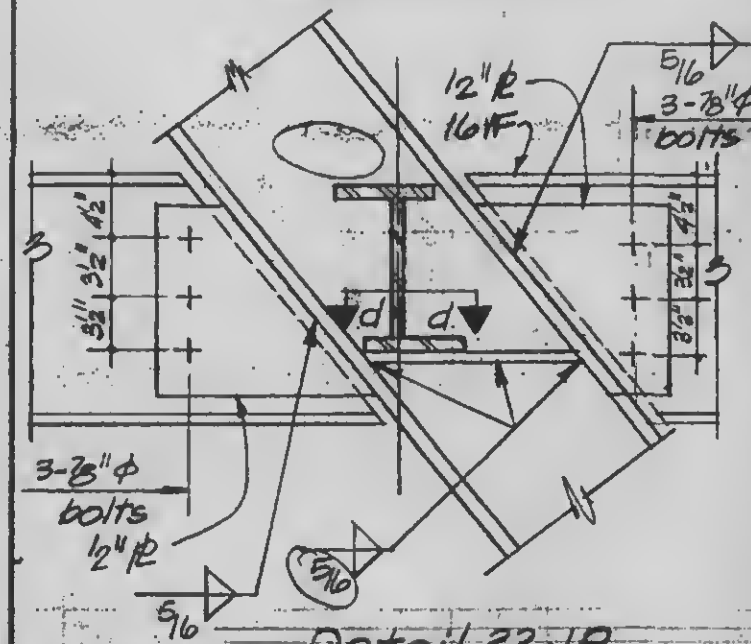
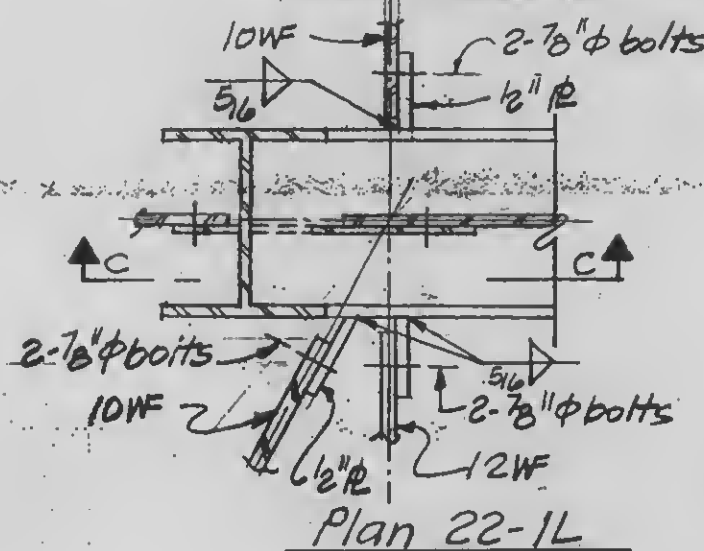
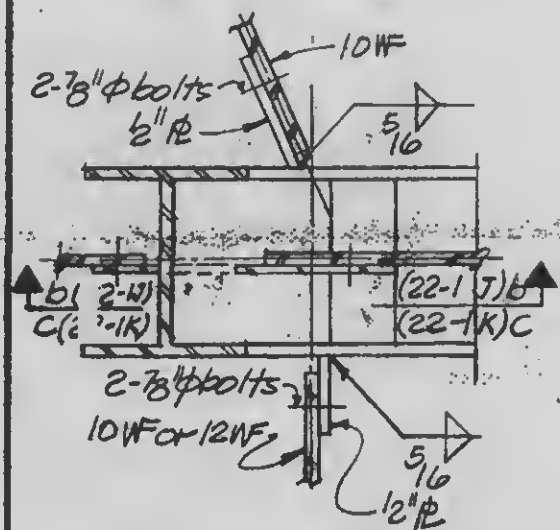
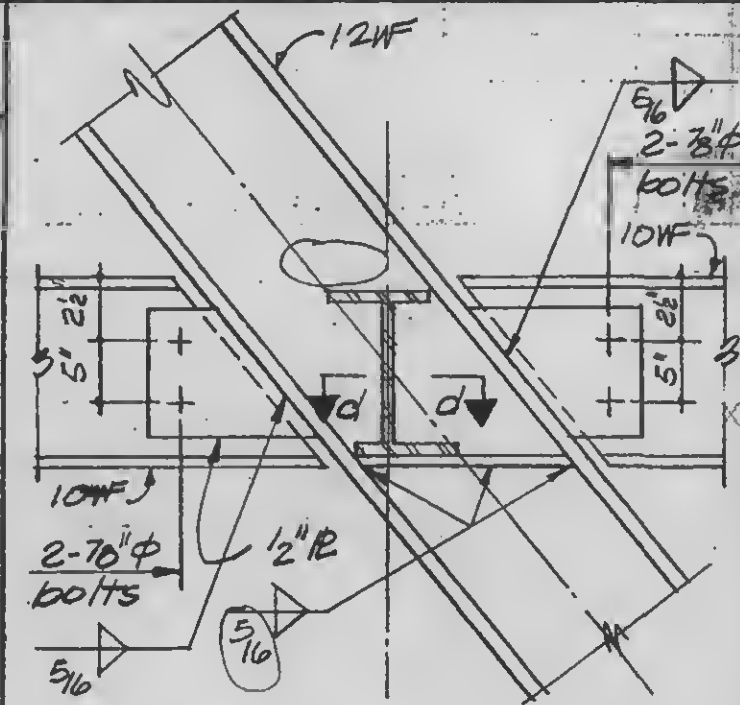
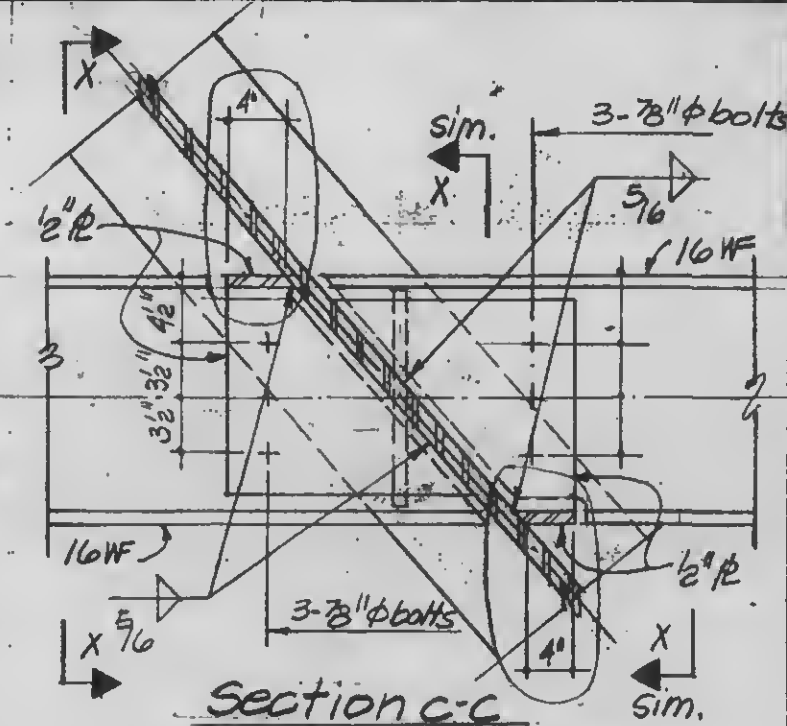
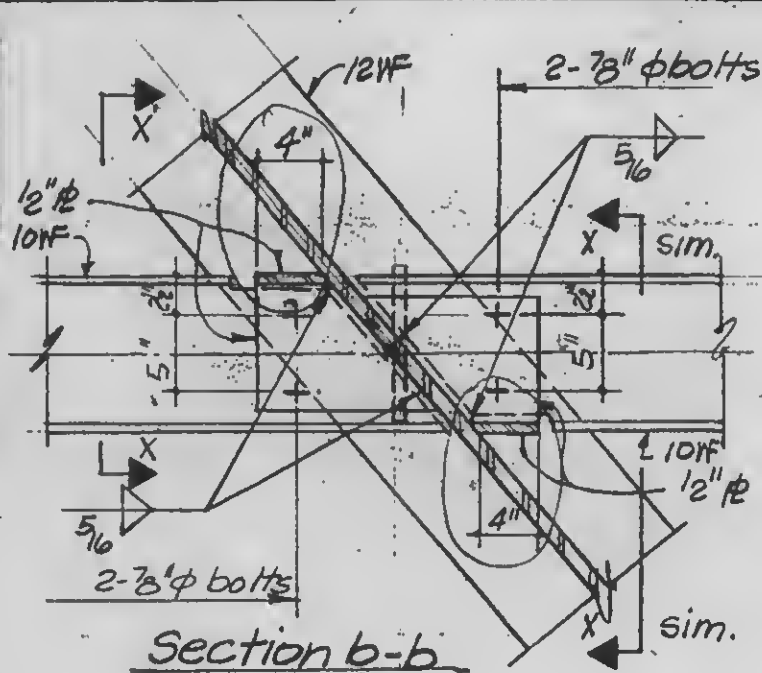
DRAWN
V. H. A.

REVIEWED

PROJECT THE WORLD TRADE CENTERTITLE FL. 107 PH CONNECTION DETAIL - FL. 109DATE 4-1-70

REVISIONS

6-15-70



DESIGNED

DRAWN
P. Ozeki

REVIEWED

9AB22-1.2