

WTC
Drawing Book 6

Chapters 5-9

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT	THE WORLD TRADE CENTER	TITLE	VERTICAL BRACING AND CONNECTIONS-- INDEX	DATE	4/ 1/69
REVISIONS					
Revised 5-1-69					WTCT-23-LERA
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6-AB5- 14	DETAIL 816	6-AB5- 62	DETAIL 864	6- 85-103.1	TEMP COL. BRACI
6-AB5- 14.1	DETAIL 816	6-AB5- 63	DETAIL 865	6- 85-104	TEMP COL. BRACI
6-AB5- 15	DETAIL 817	6-AB5- 64	DETAIL 866	6- 85-105	TEMP COL. BRACI
6-AB5- 16	DETAIL 818	6-AB5- 65	DETAIL 867	6- 85-105.1	TEMP COL. BRACI
6-AB5- 28	DETAIL 830	6-AB5- 65.1	DETAIL 867	6- 85-106	TEMP COL. BRACI
6-AB5- 29	DETAIL 831	6-AB5- 66	DETAIL 868	6- 85-107	VOID
6-AB5- 30	DETAIL 832	6-AB5- 67	DETAIL 869	6- 85-108	VOID
6-AB5- 30.1	DETAIL 832	6-AB5- 68	DETAIL 870	6- 85-109	TEMP BRACING DE
6-AB5- 31	DETAIL 833	6-AB5- 69	DETAIL 871	6- 85-110	TEMP BRACING DE
6-AB5- 31.1	DETAIL 833	6-AB5- 70	DETAIL 872	6- 85-111	TEMP BRACING DE
6-AB5- 32	DETAIL 834	6-AB5- 71	DETAIL 873	6- 85-112	TEMP BRACING DE
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6-AB5- 38	DETAIL 840	6-AB5- 77.1	DETAIL 879		
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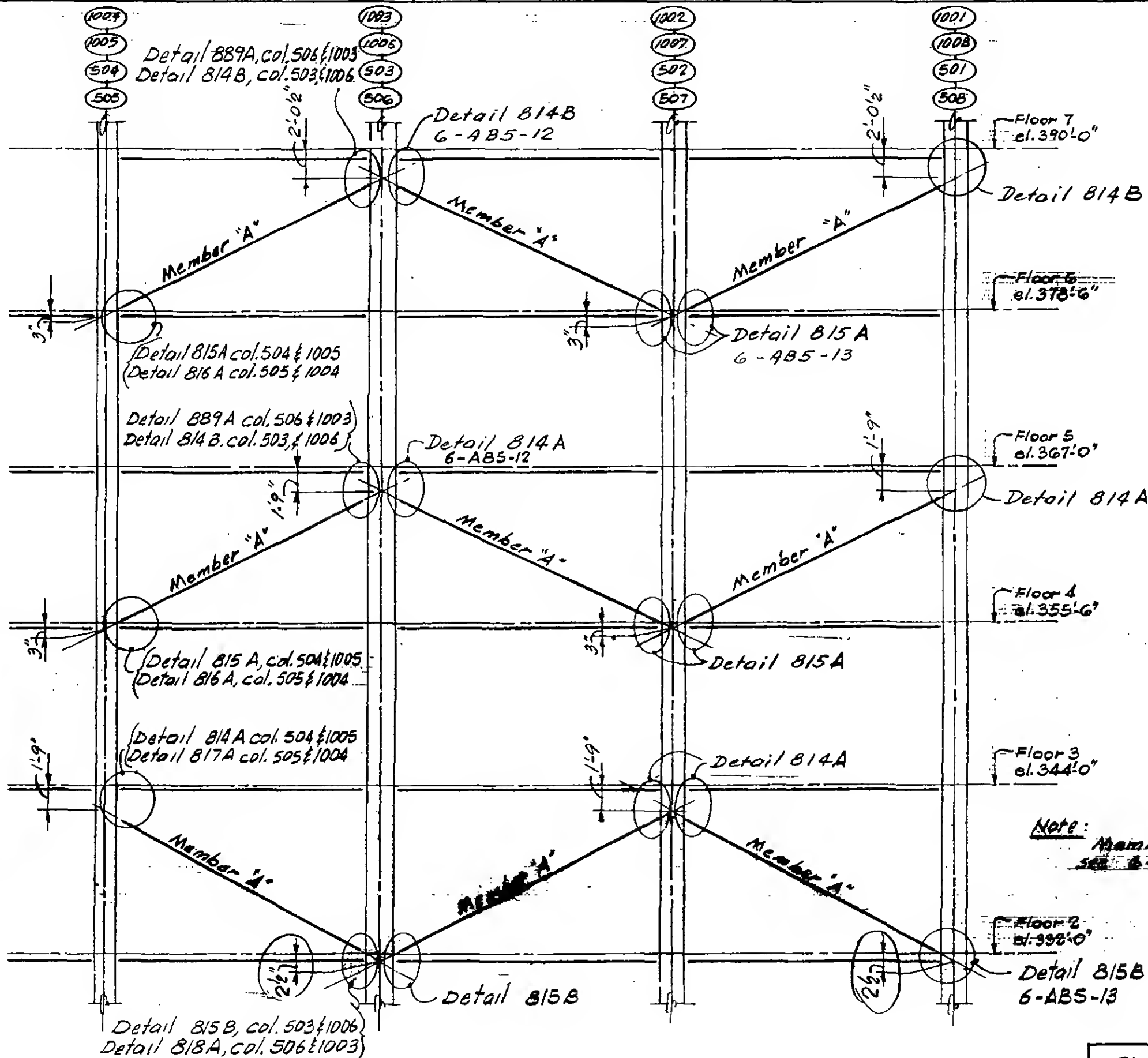
PROJECT THE WORLD TRADE CENTER

TITLE BRACING - SECTION A-A

DATE 6-19-67

REVISIONS

8-14-67
9-29-67



Note: Member "A"
see 6-AB5-5

6-AB5-2



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PROJECT THE WORLD TRADE CENTER

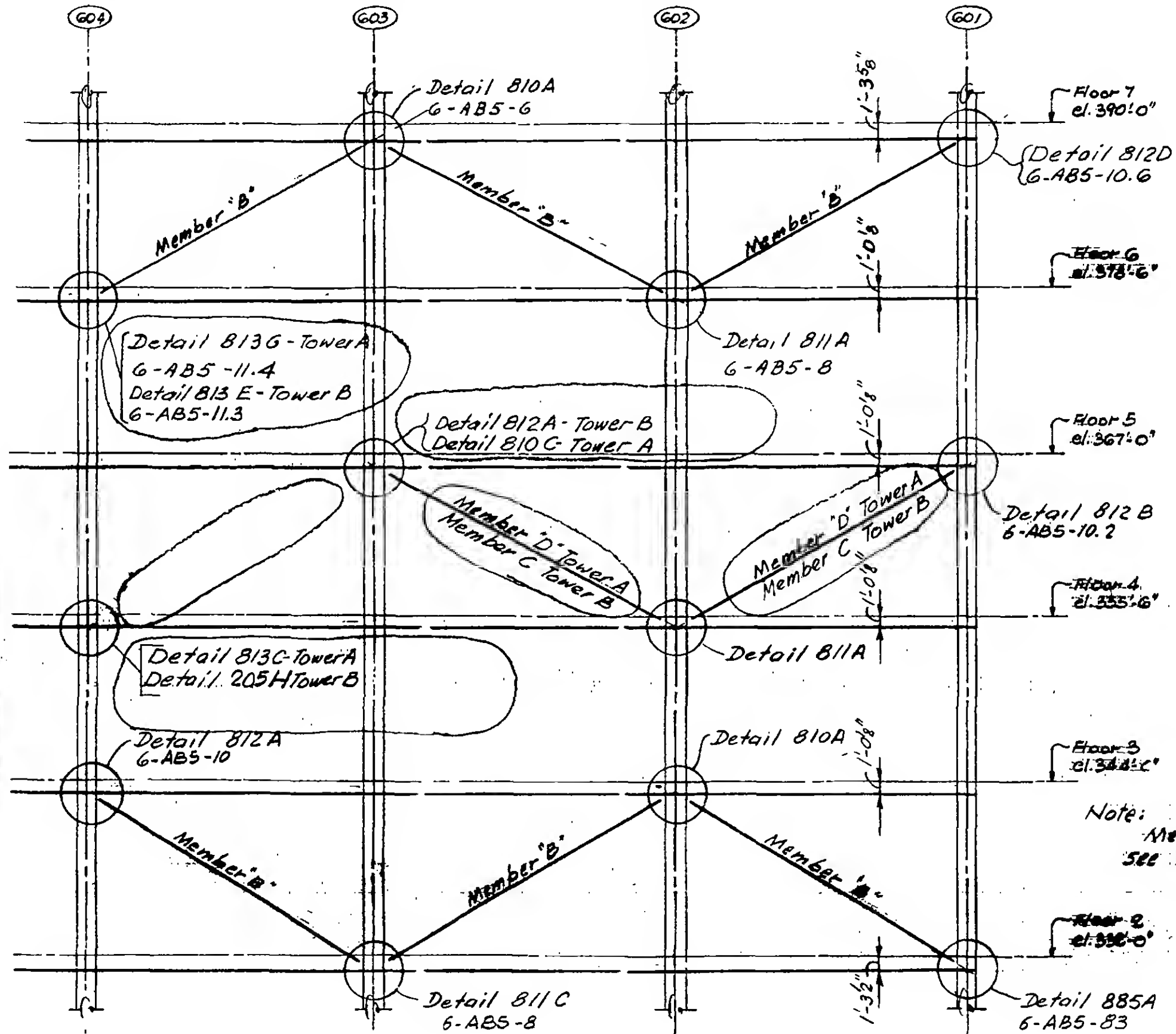
TITLE BRACING SECTION B-B

DATE 6-19-67

REVISIONS

8-14-67

3-13-68



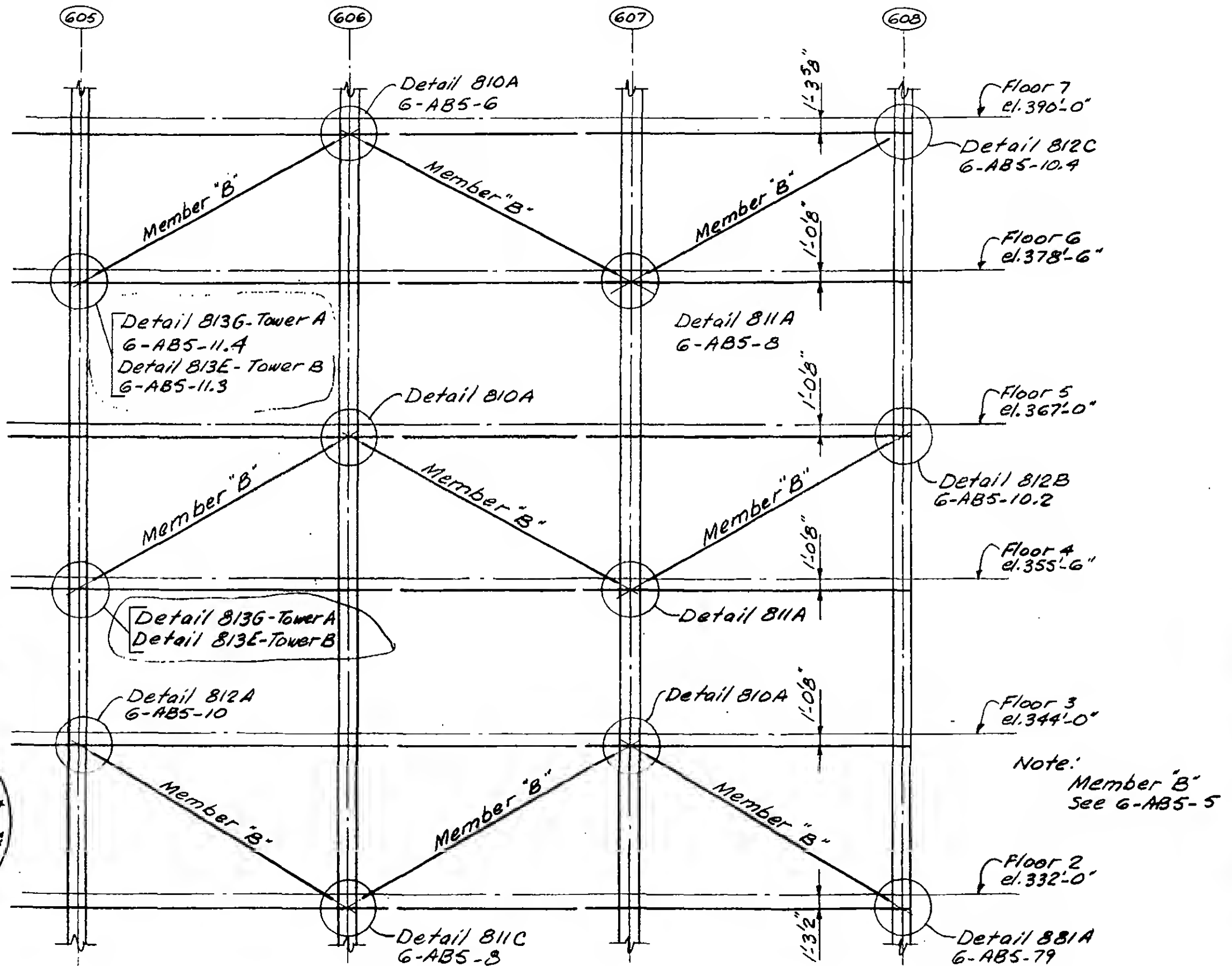
6-AB5-3

PROJECT THE WORLD TRADE CENTER

TITLE BRACING SECTION B-B

DATE 3-13-68

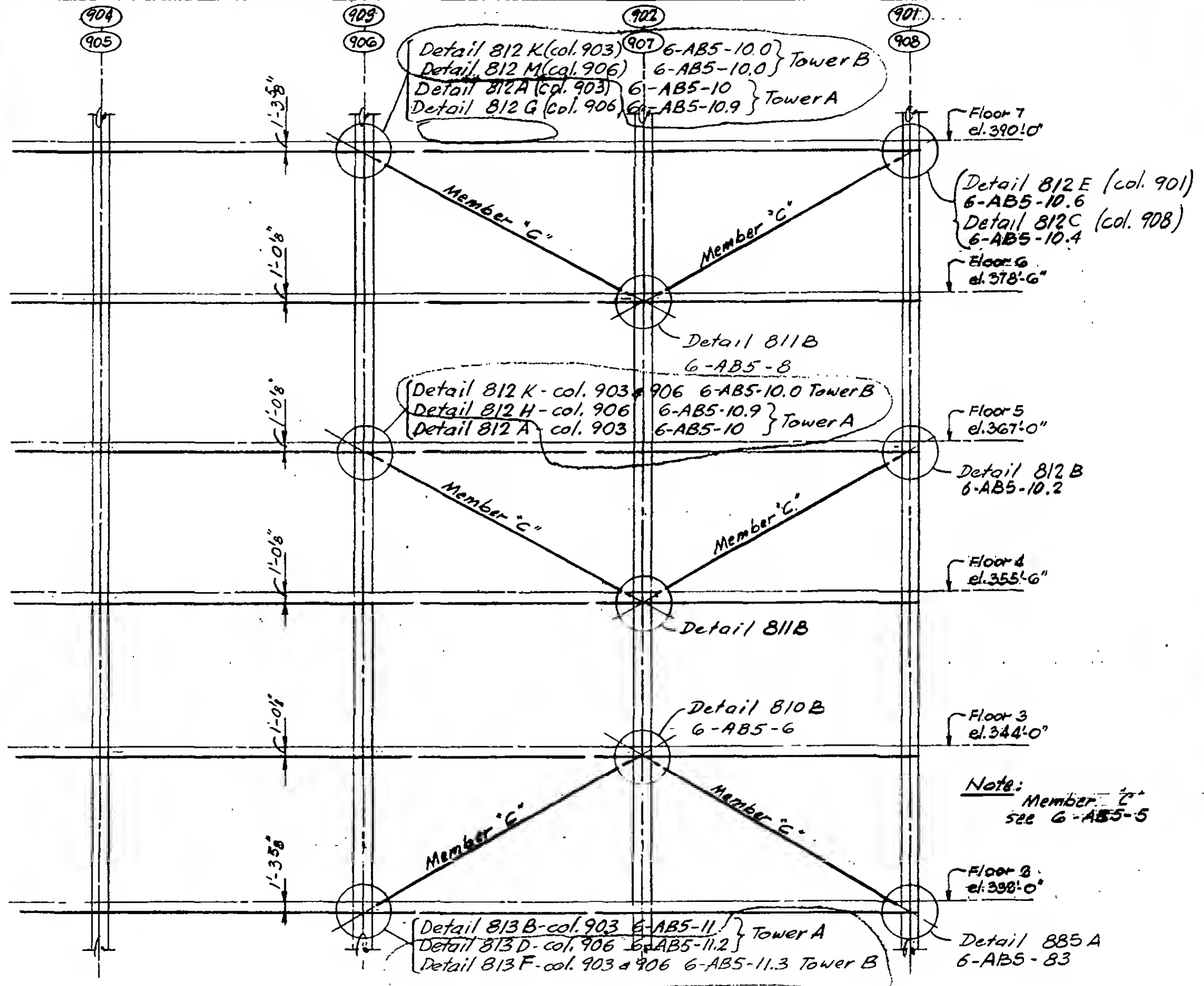
REVISIONS



G-ABS-3.1

REVISIONS

5-14-67
10-31-67
3-13-68



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PROJECT THE WORLD TRADE CENTER

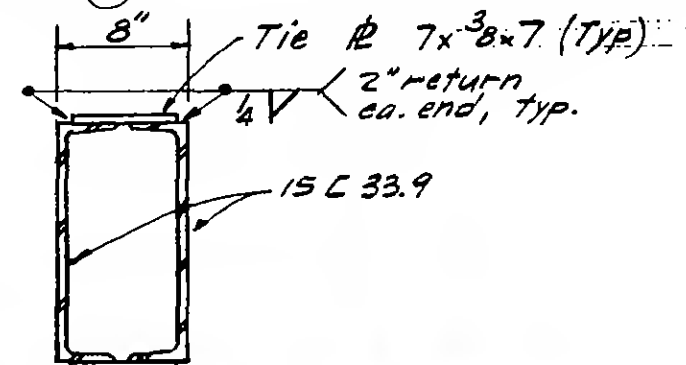
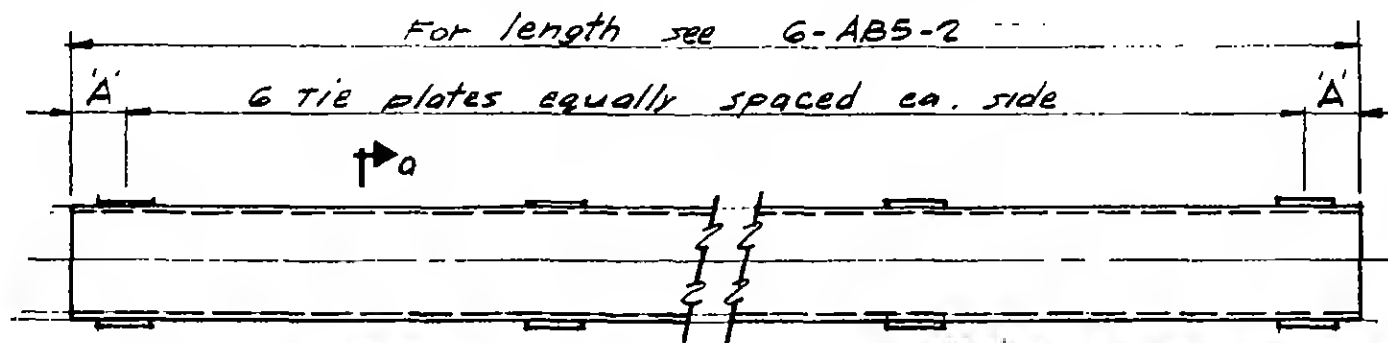
TITLE BRACING MEMBERS A, B, C & D

DATE 6-19-67

REVISIONS

8-14-67

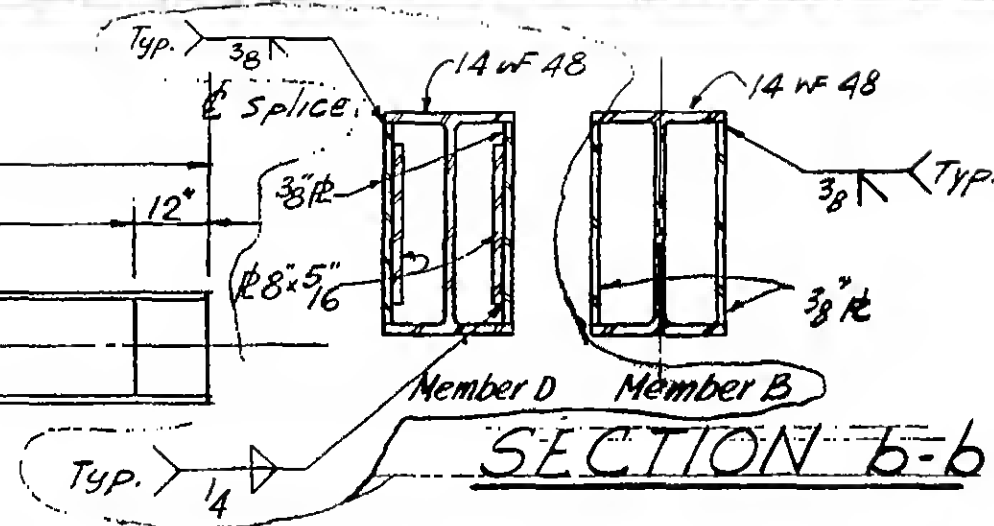
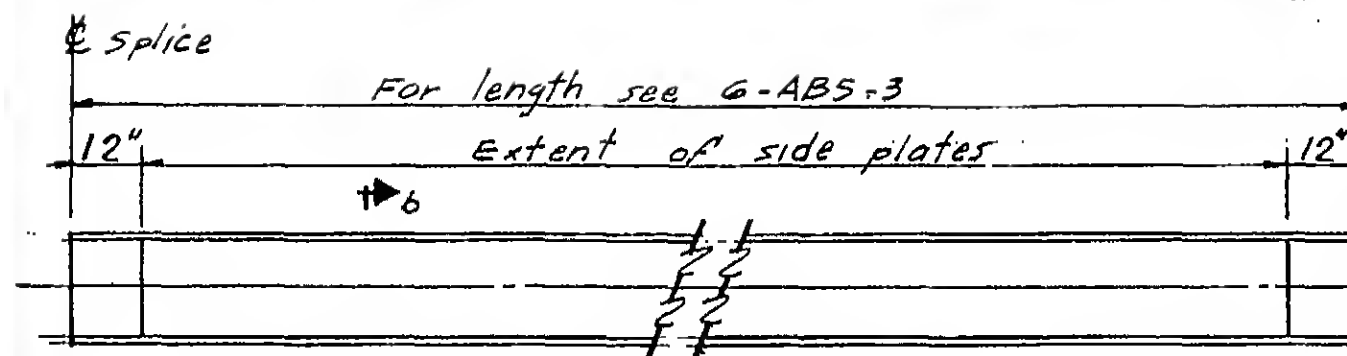
3-13-68



Note: Dim. 'A' = 6" or as close to end of member as permitted by column connection

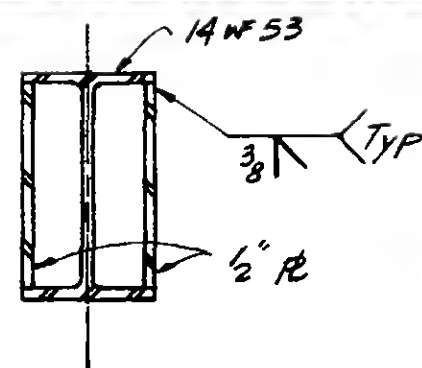
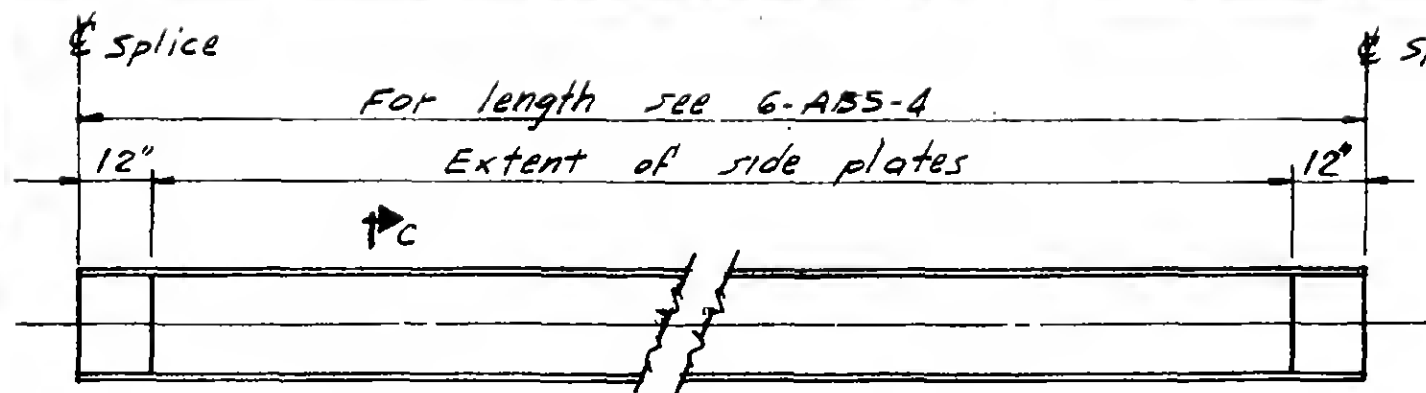
MEMBER "A"

SECTION A-A



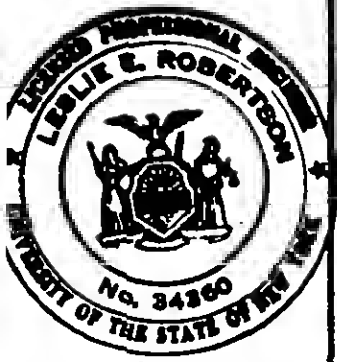
MEMBER "B & D"

SECTION B-B



MEMBER "C"

SECTION C-C



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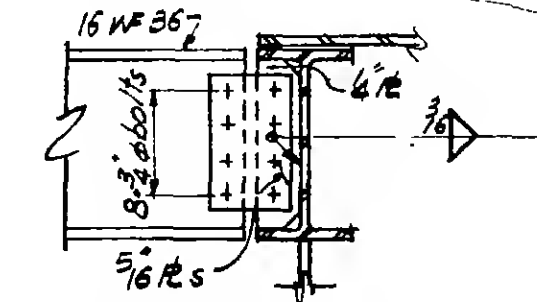
PROJECT THE WORLD TRADE CENTER

TITLE VERTICAL BRACING DETAIL 810A & 810B

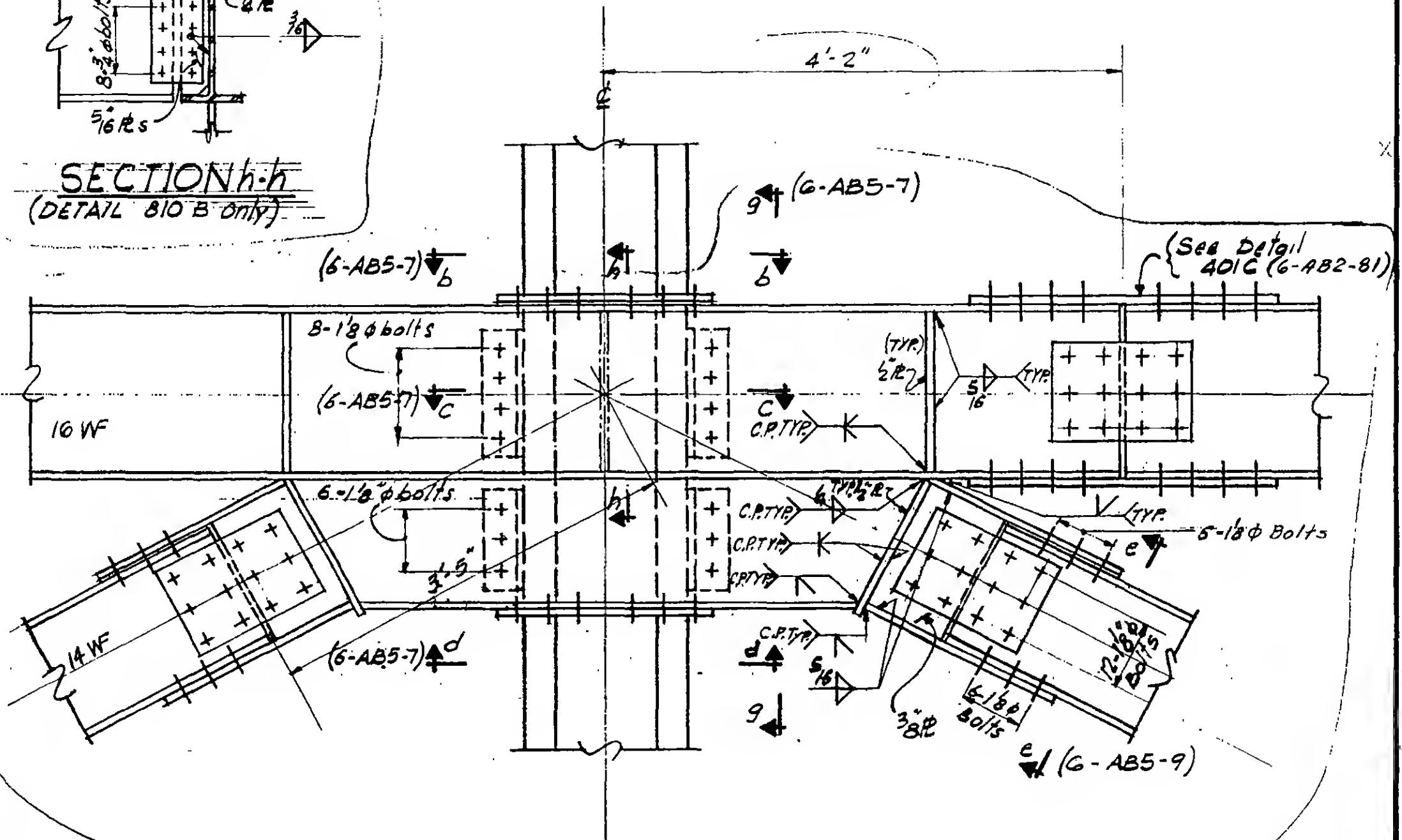
DATE 6-19-67

REVISIONS

8-14-67

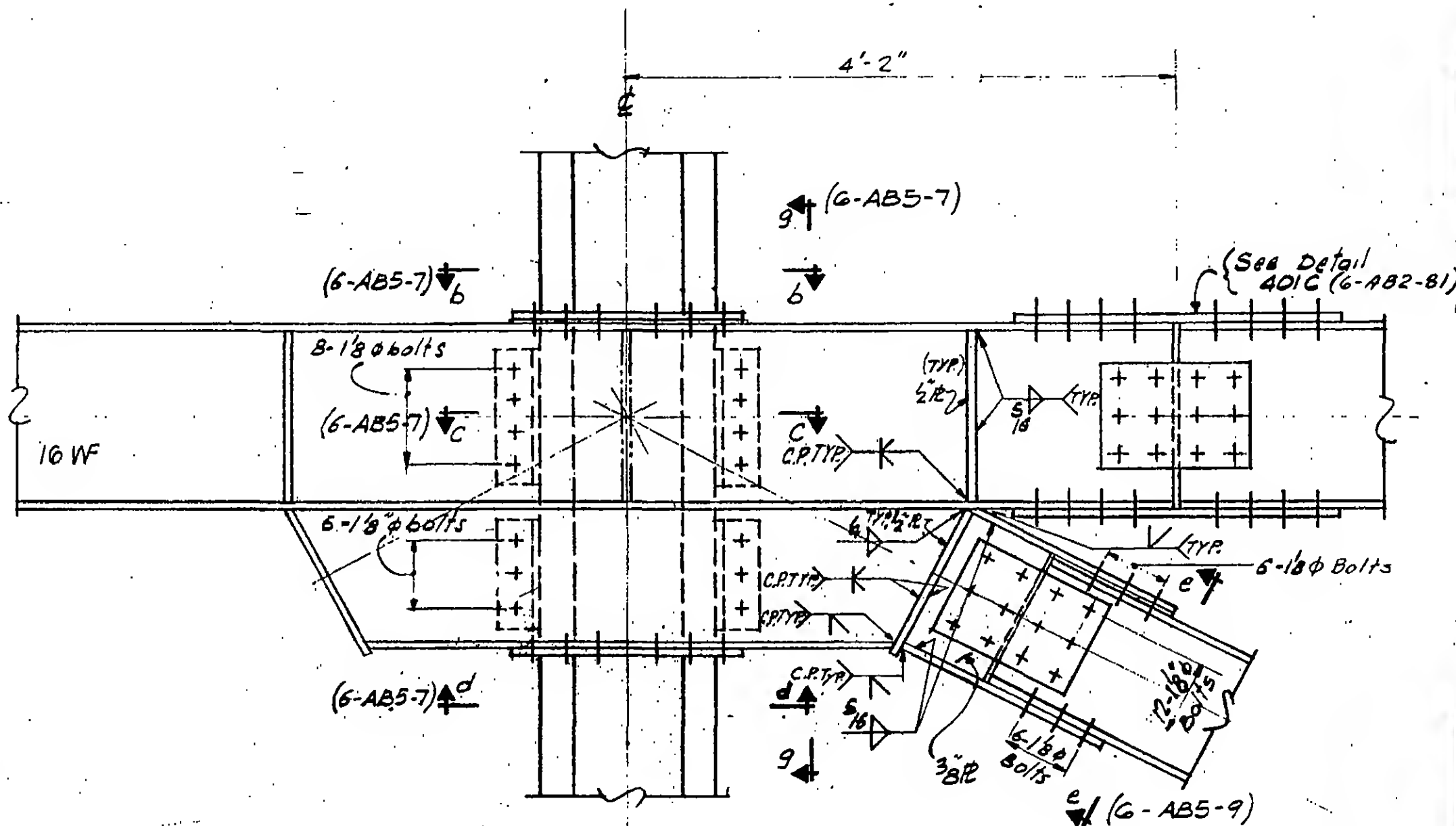


SECTION h-h
(DETAIL 810 B ONLY)



6-AB5-6

VISIONS



Detail 810C is at Col. 603, Floor 5,
Tower A, and was formerly
detail 810A.
Circled area indicates portion
revised.



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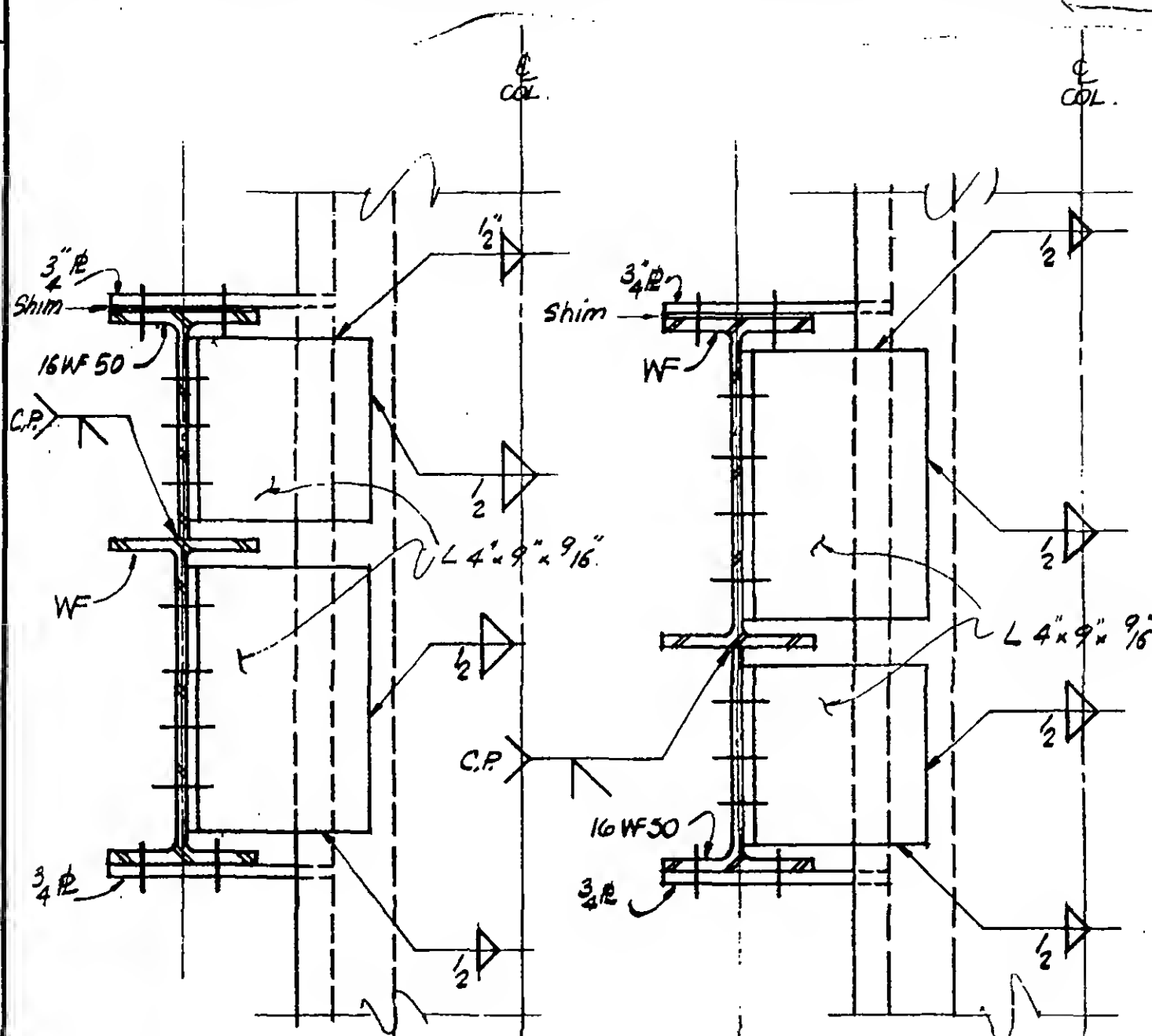
PROJECT THE WORLD TRADE CENTER

TITLE SECTION DETAILS (810A, 810B, 811A, 811B, 811C, 812A, 812G)

DATE 6-19-67

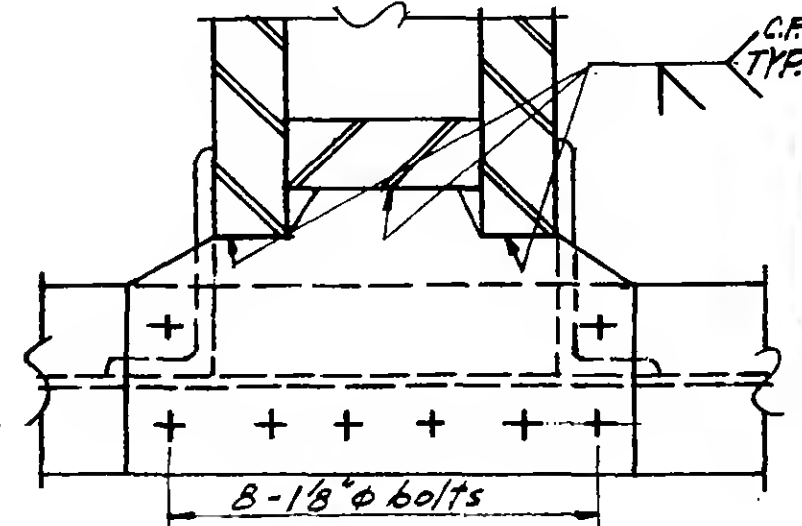
REVISIONS

8-14-67

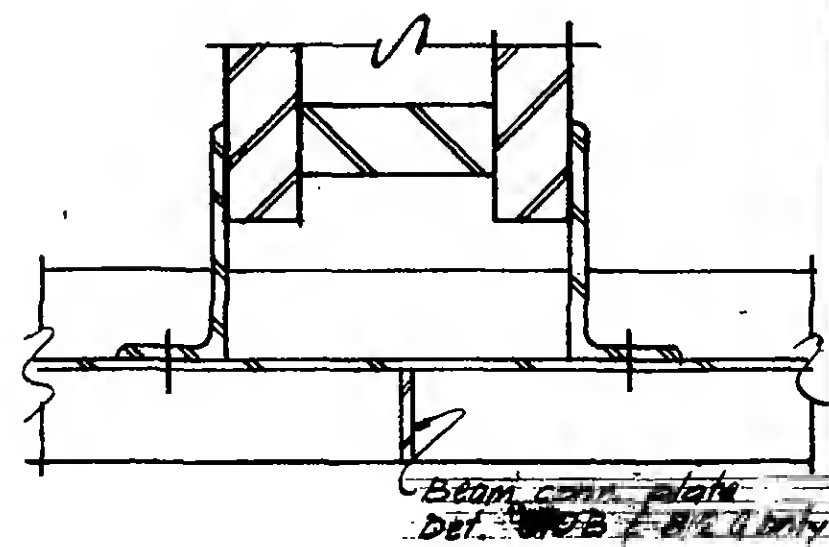


SECTION a-a

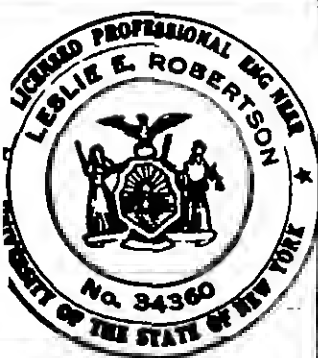
SECTION g-g



SECTION b-b
(SECTION d-d Similar)

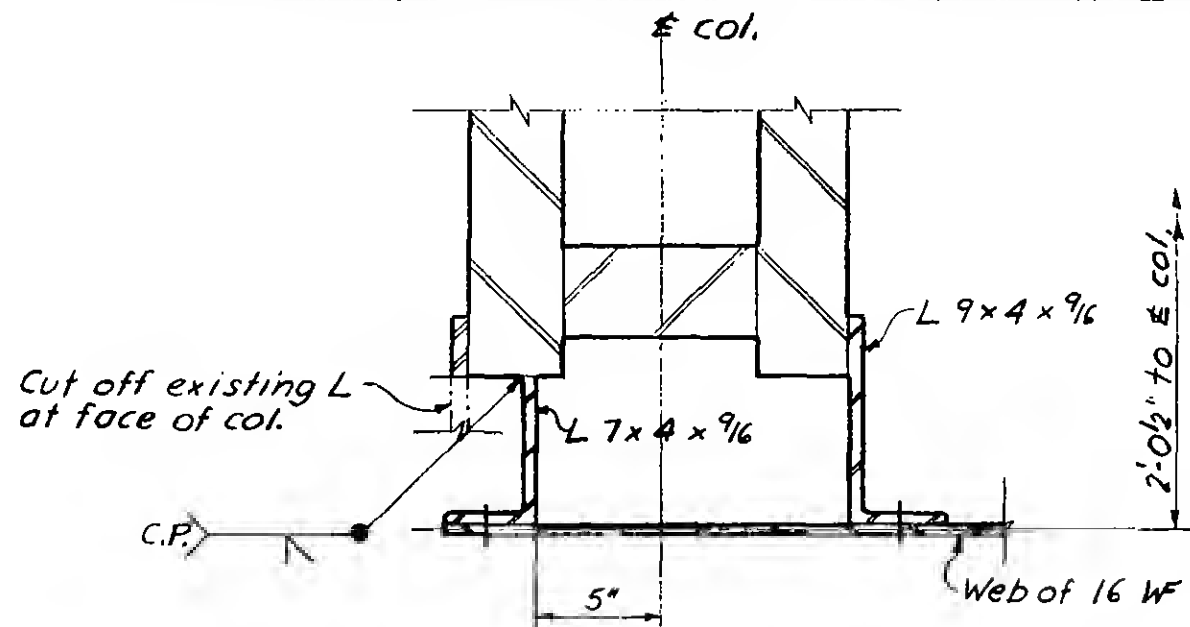


SECTION c-c

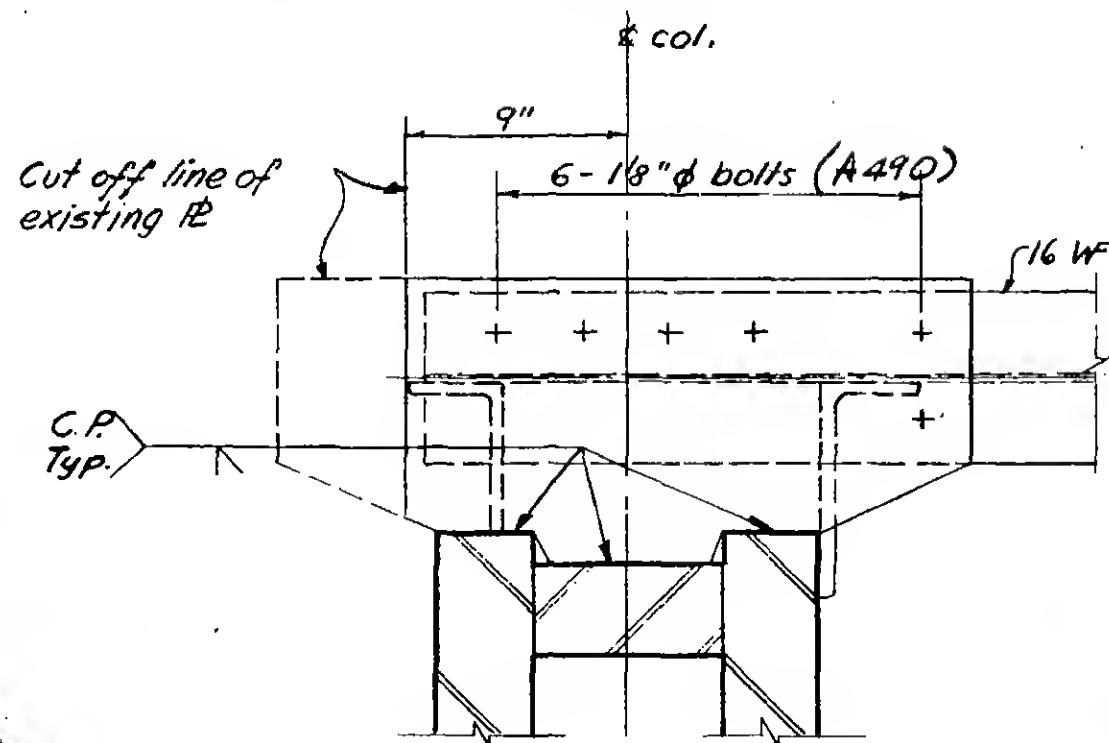


G-AB5-7

REVISIONS

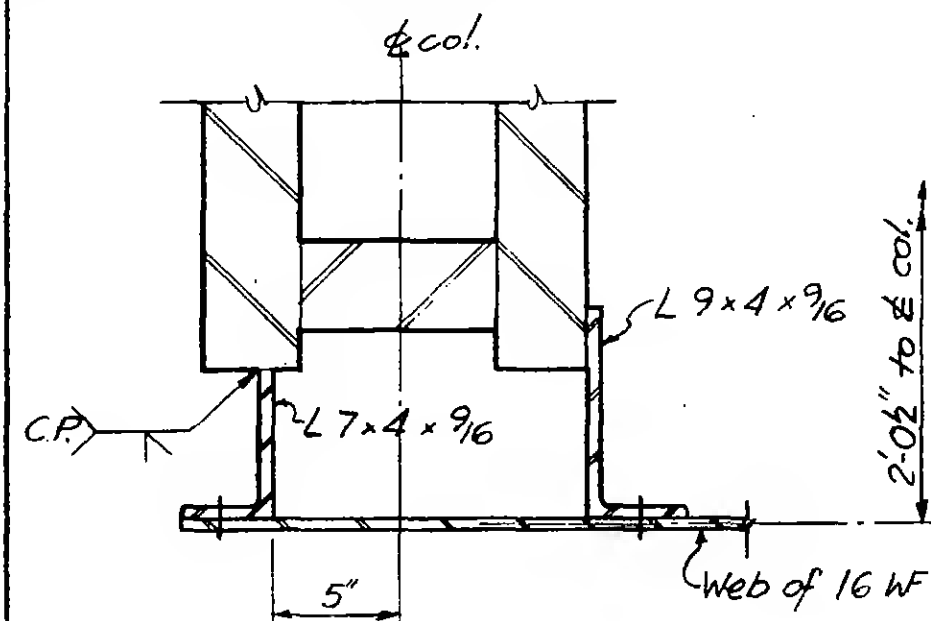


Section e-e

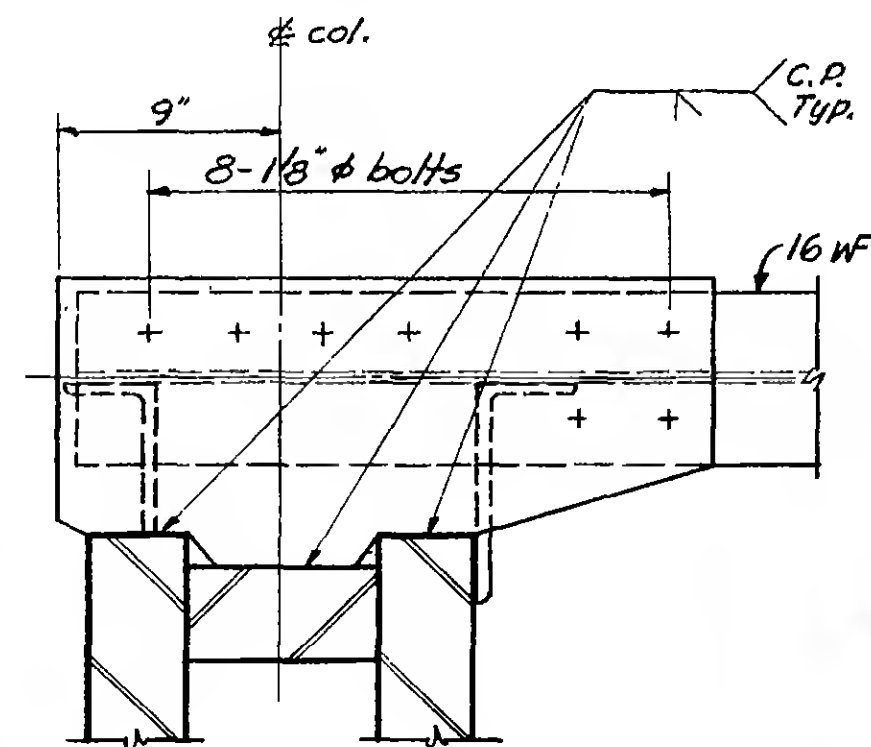


Section d-d

Detail 812 H & G



Section e-e



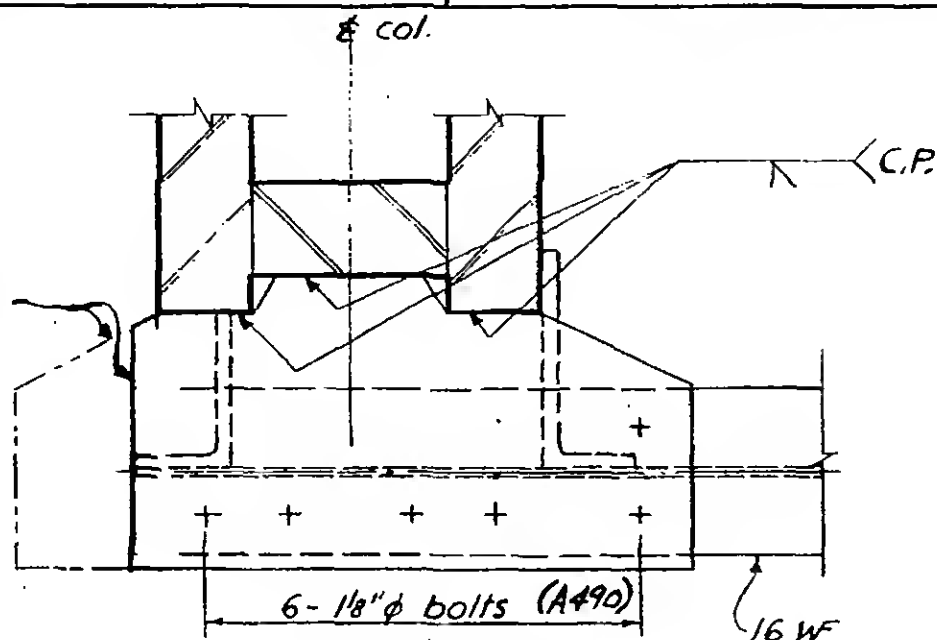
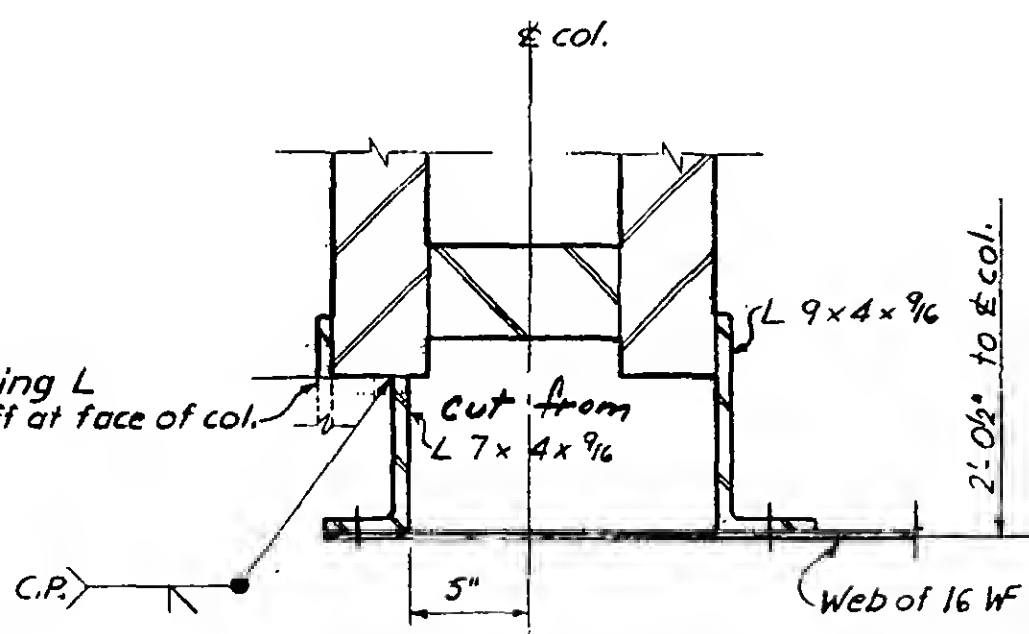
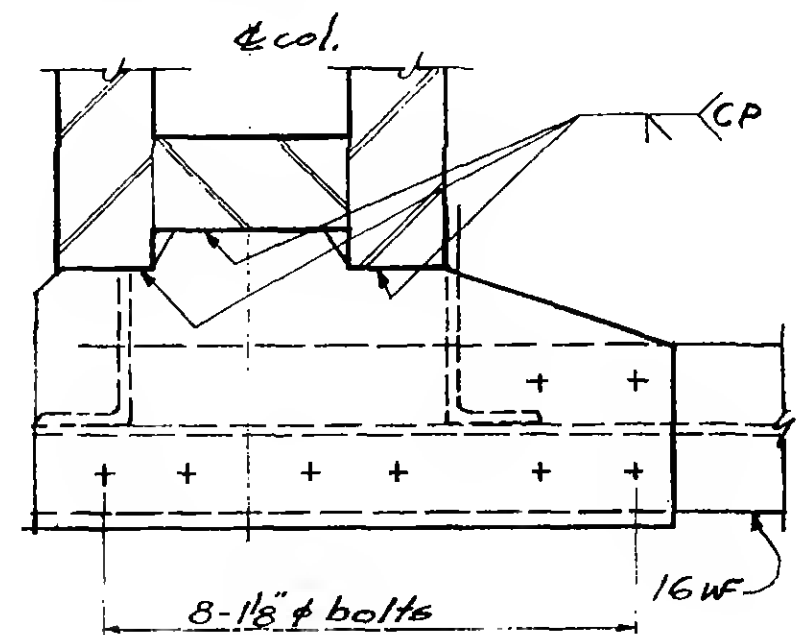
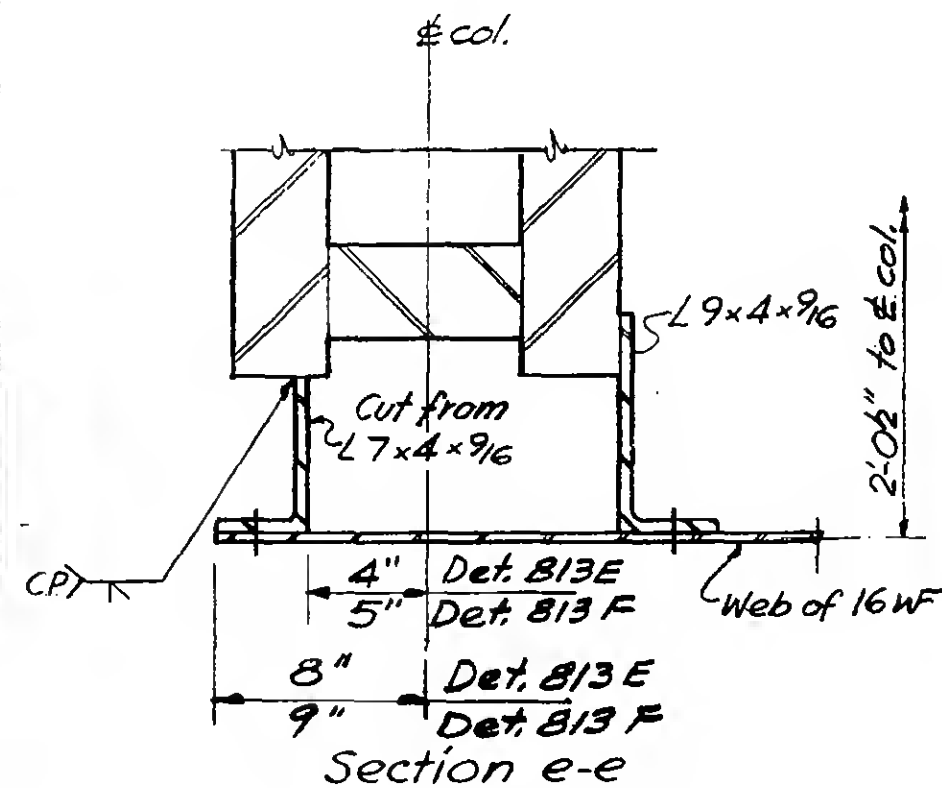
Section d-d

Detail 812 K & M

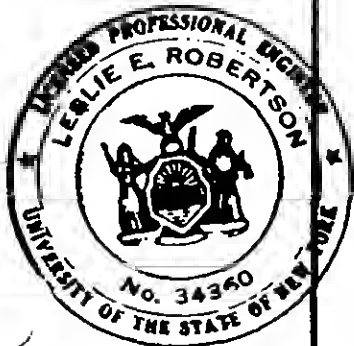
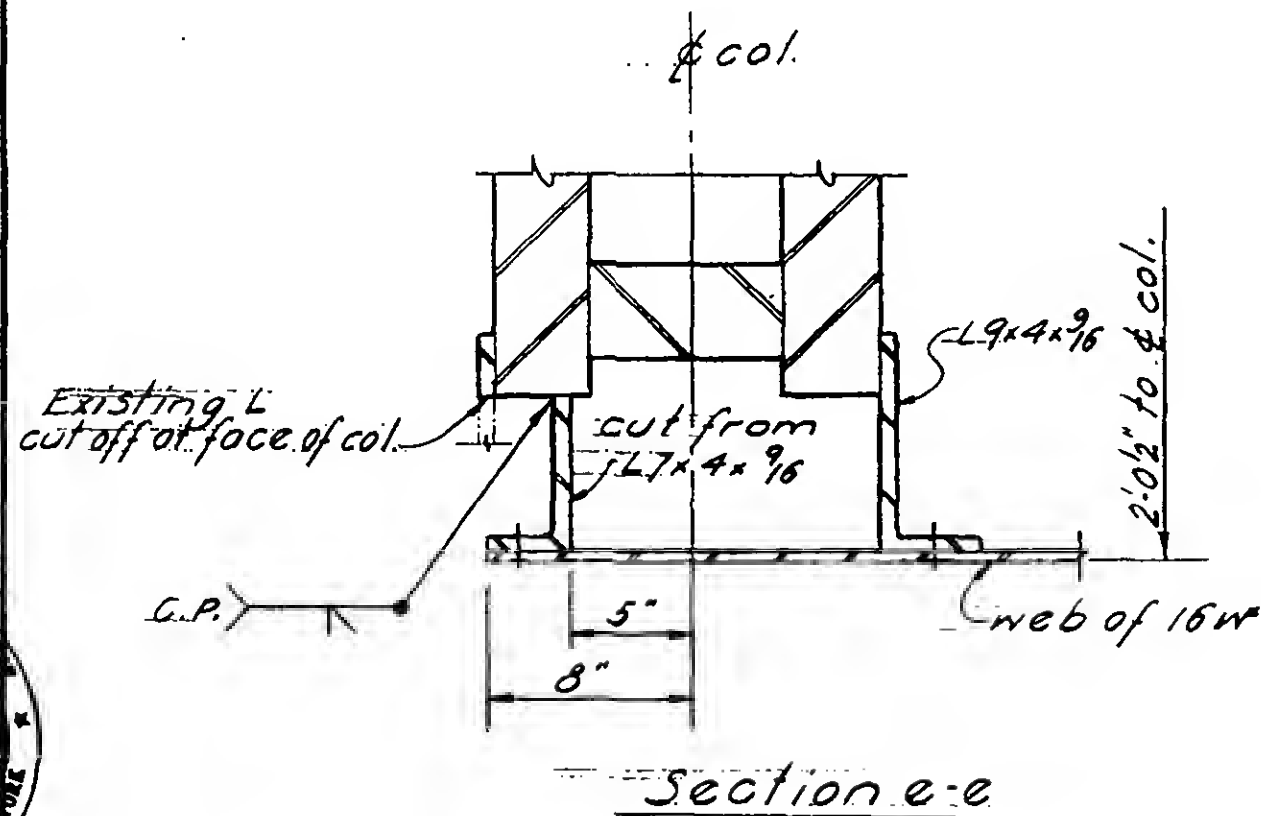
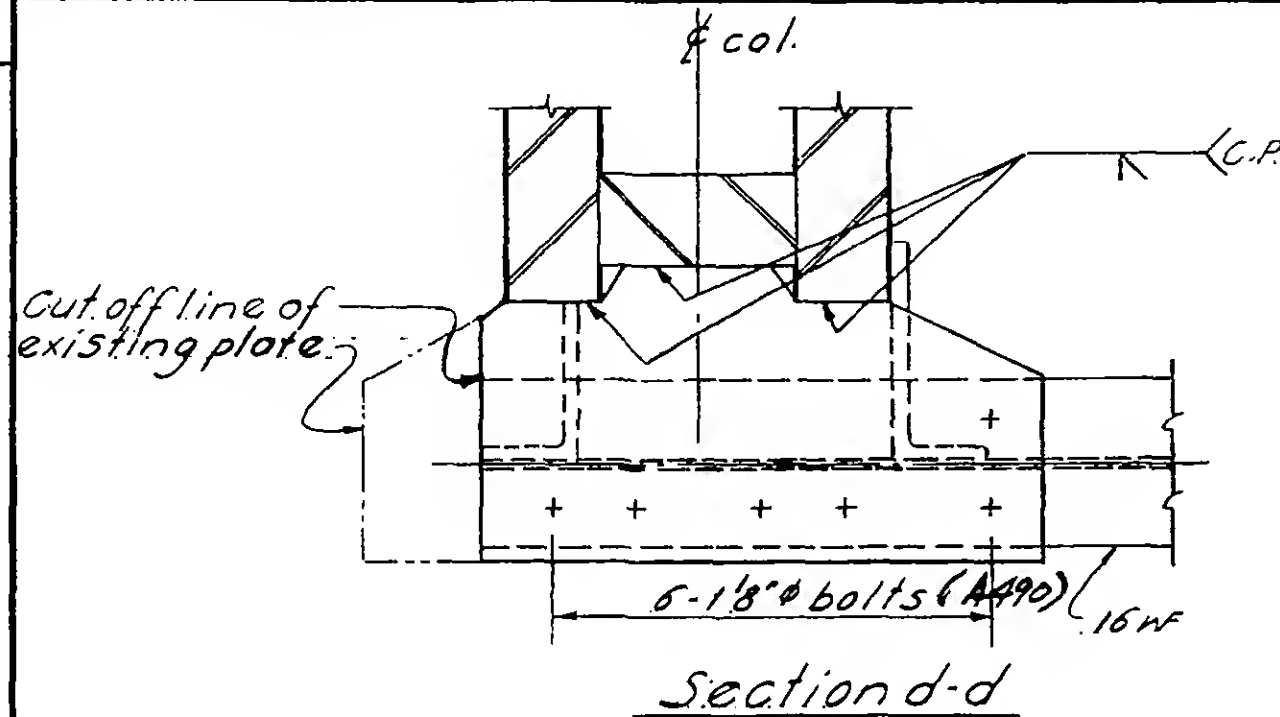


PROJECT THE WORLD TRADE CENTERTITLE VERTICAL BRACING DETAIL 813 D, E & FDATE 9-13-68

REVISIONS

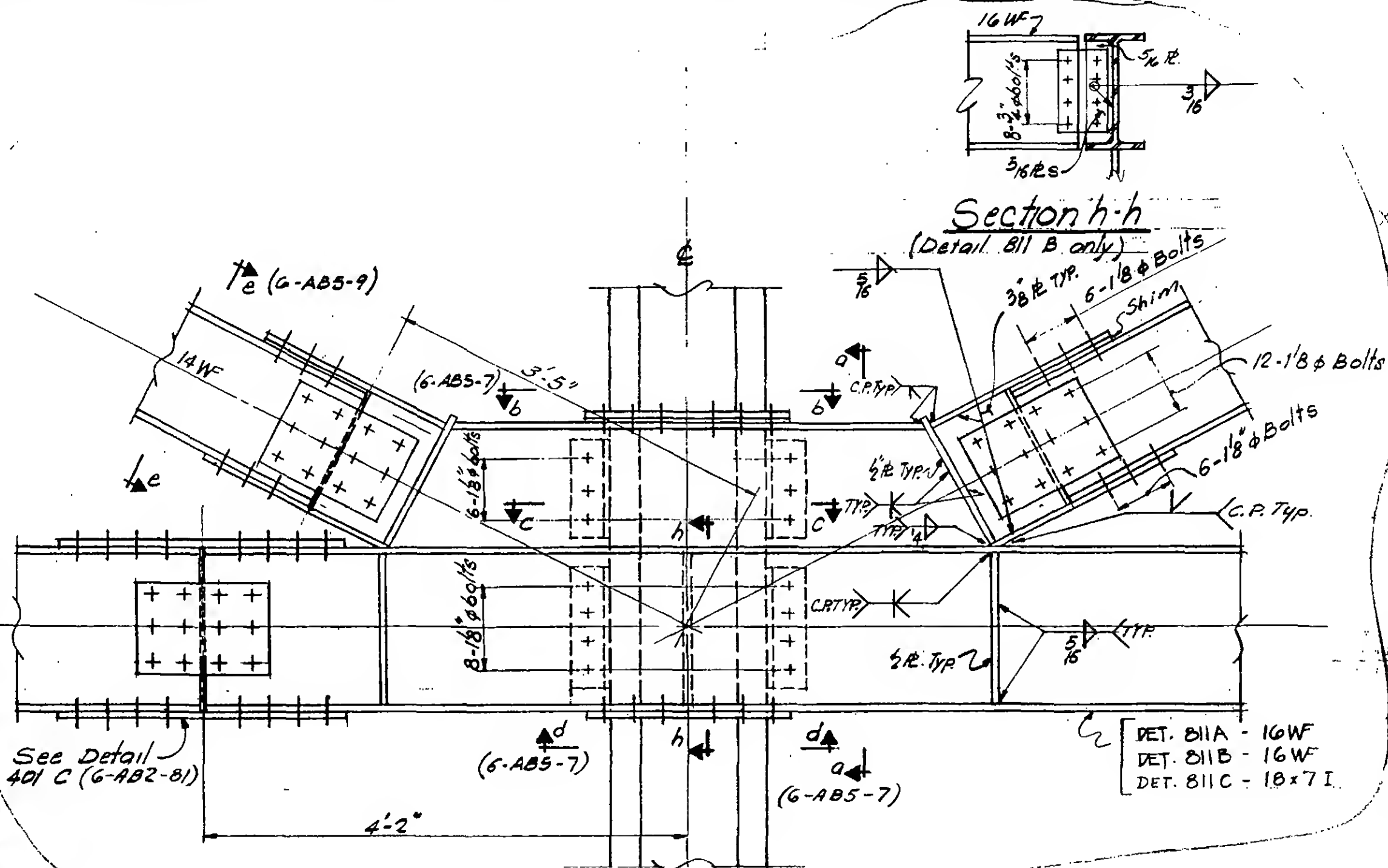
Cut off line
of exist. π Section d-dExisting L
cut off at face of col.Section e-eDetail 813 DSection d-dSection e-eDetail 813 E & F

REVISIONS

Detail 813G

REVISIONS

8-14-67



DET. 811A - 16WF
DET. 811B - 16WF
DET. 811C - 18x7I

6-AB5-8

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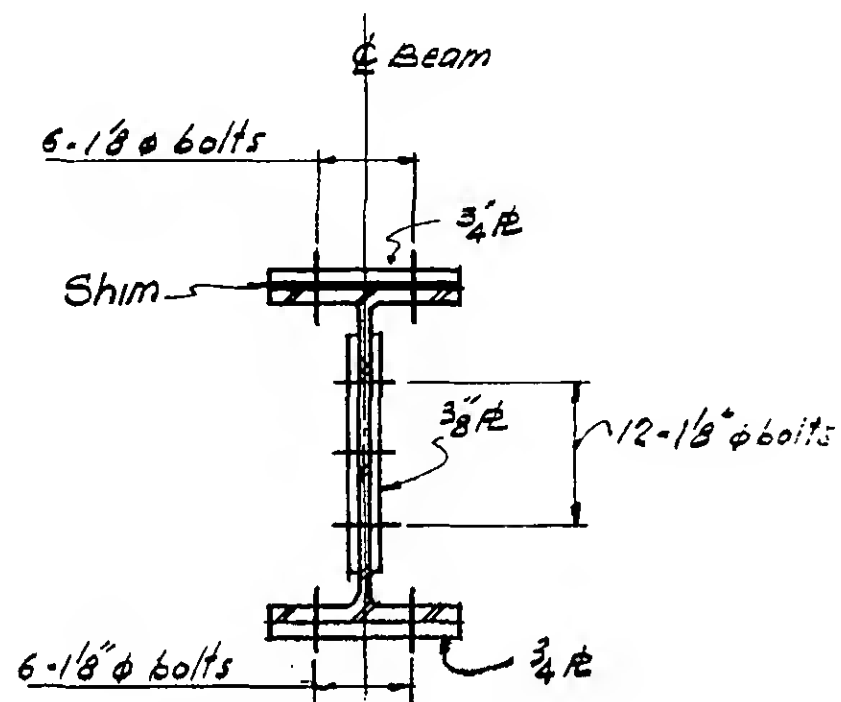
PROJECT THE WORLD TRADE CENTER

TITLE SECTION-DETAILS (810A, 810B, 811A, 811B, 811C, 812A, 812G)

DATE 6-19-67

REVISIONS

8-14-67



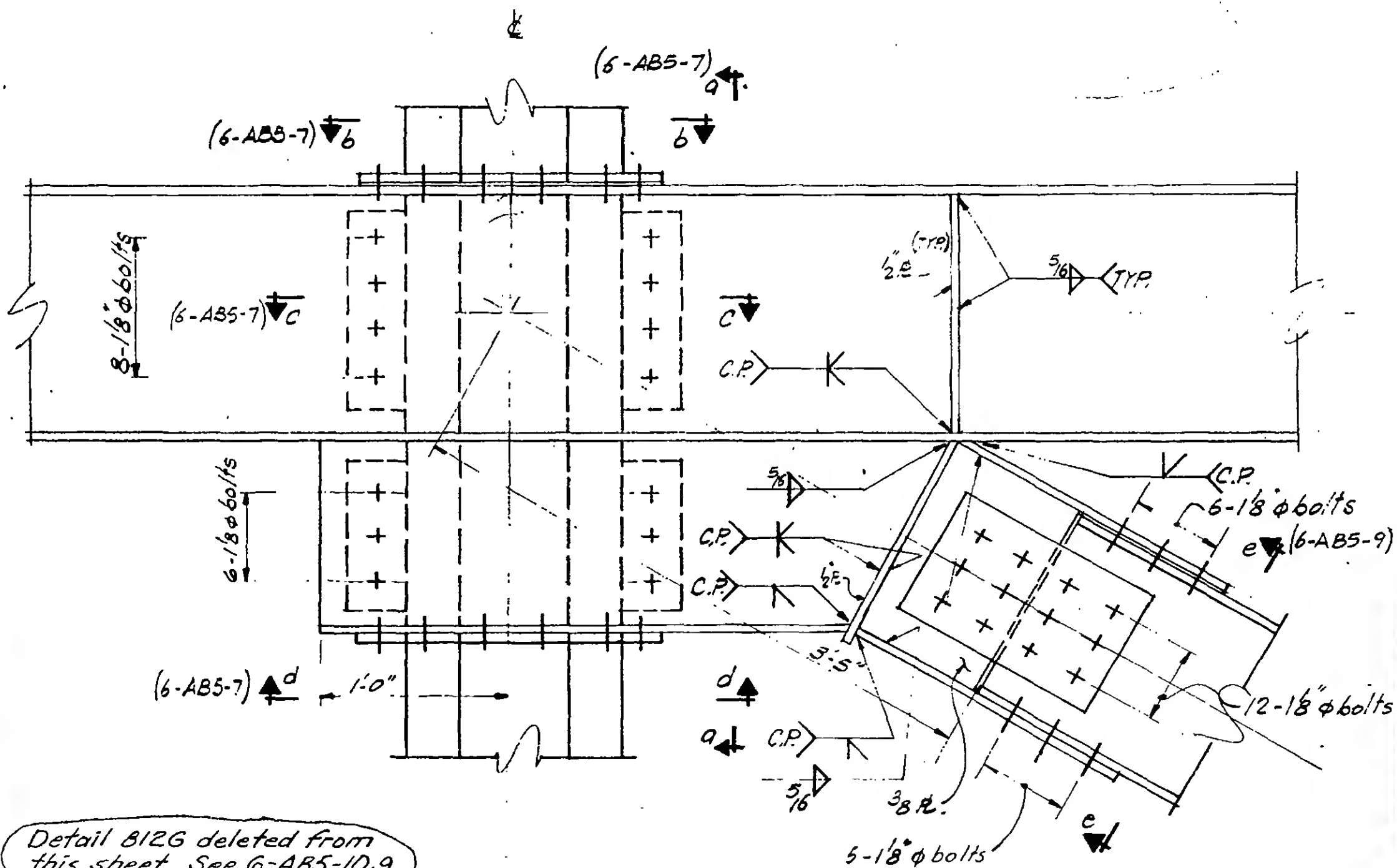
SECTION e-e



G-AB5-9

REVISIONS

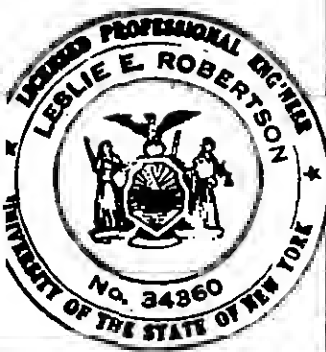
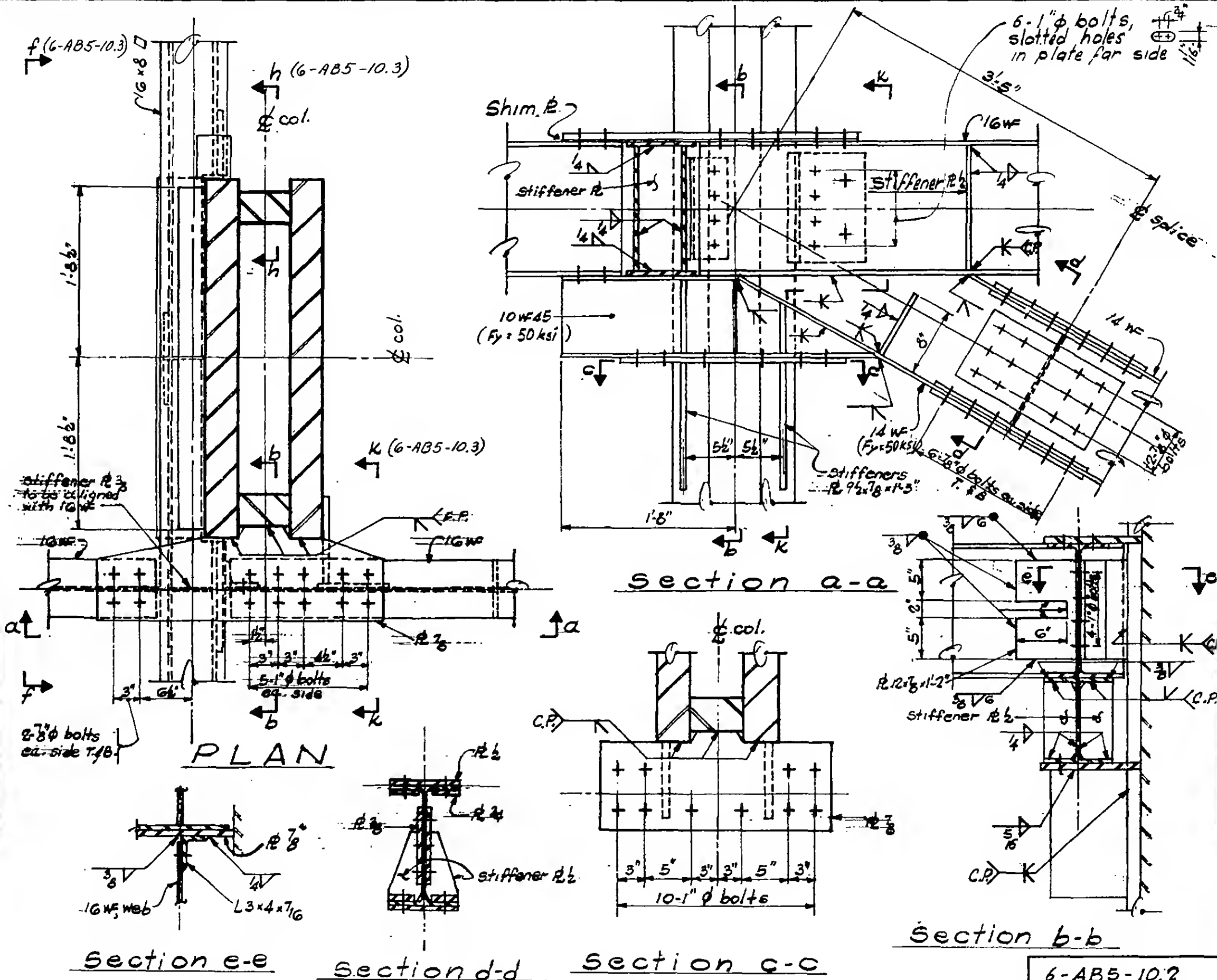
8-14-67
3-13-68



Detail 812G deleted from this sheet. See 6-ABS-10.9.



REVISIONS



The image contains three hand-drawn technical drawings of a ship's hull structure, labeled Section f-f, Section g-g, and Section h-h.

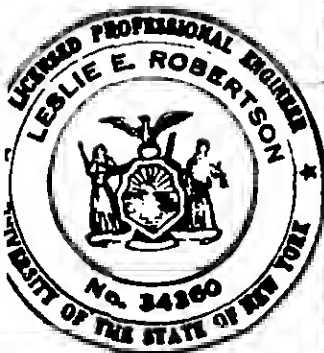
Section f-f: This drawing shows a cross-section of the hull with a central vertical stiffener. Dimensions include a total width of 1.7" and a central stiffener labeled "Stiffener R 5 1/2 x 1/2 x 1'0". Other labels include "Stiffener R 12 x 1/2 x 1'0", "R 1/2", and "R 1/2". A note states: "Stiffener R to be aligned with stiffener R in seat below". The drawing is oriented with a vertical centerline (C.P.) and a horizontal axis labeled "g".

Section g-g: This drawing shows a cross-section of the hull with a central vertical stiffener. Dimensions include a total width of 1.7" and a central stiffener labeled "Stiffener R 5 1/2 x 1/2 x 1'0". Other labels include "Stiffener R 12 x 1/2 x 1'0", "R 1/2", and "R 1/2". A note states: "Stiffener R to be aligned with stiffener R in seat below". The drawing is oriented with a vertical centerline (C.P.) and a horizontal axis labeled "g".

Section h-h: This drawing shows a cross-section of the hull with a central vertical stiffener. Dimensions include a total width of 1.7" and a central stiffener labeled "Stiffener R 5 1/2 x 1/2 x 1'0". Other labels include "Stiffener R 12 x 1/2 x 1'0", "R 1/2", and "R 1/2". A note states: "Stiffener R to be aligned with stiffener R in seat below". The drawing is oriented with a vertical centerline (C.P.) and a horizontal axis labeled "h".

Section g-g Section h-h

Section f-f

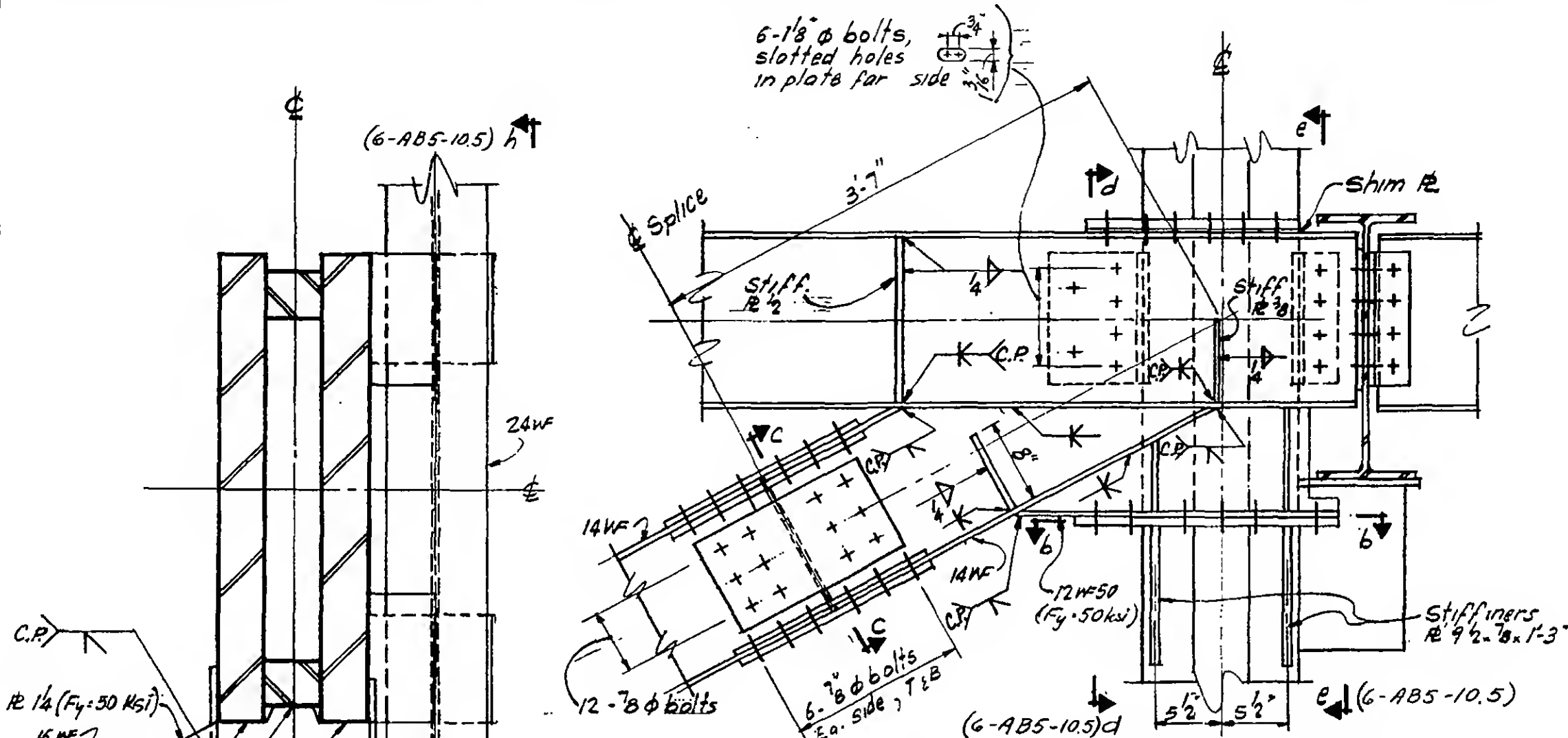


Section j-j

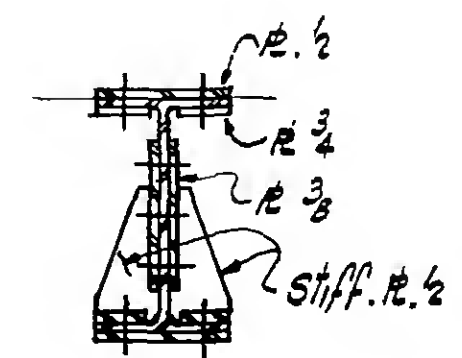
Section K-K

Section z-z

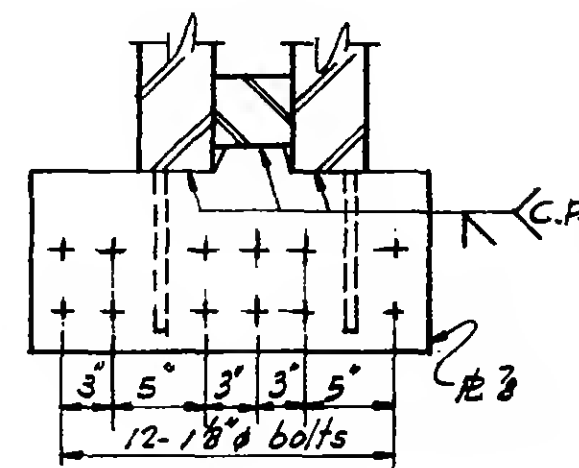
REVISIONS



SECTION a-a



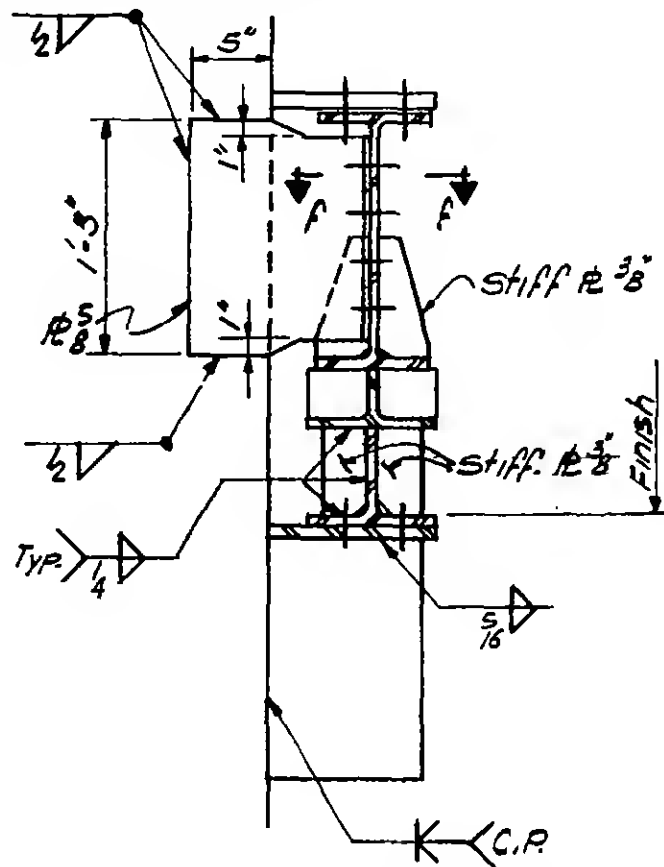
SECTION C-C



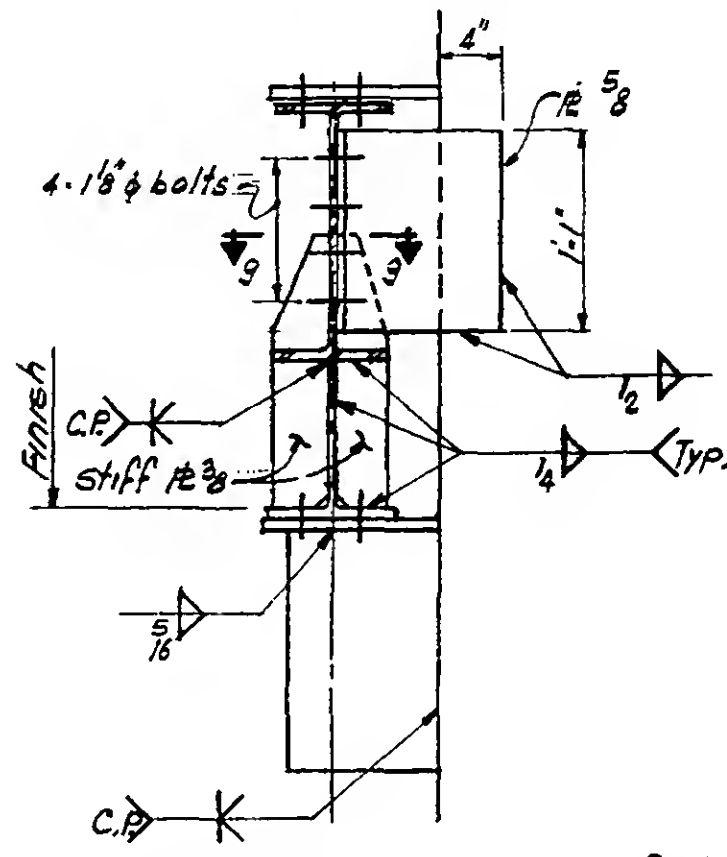
SECTION b-b



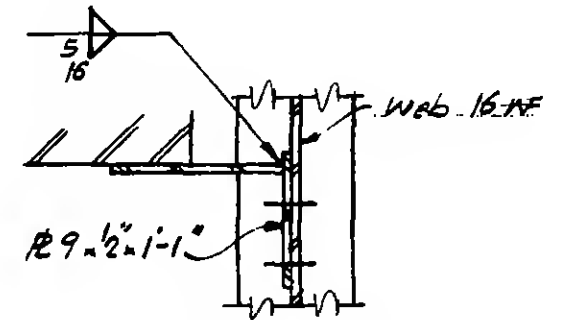
REVISIONS



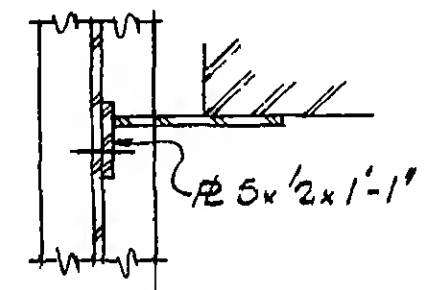
SECTION d-d



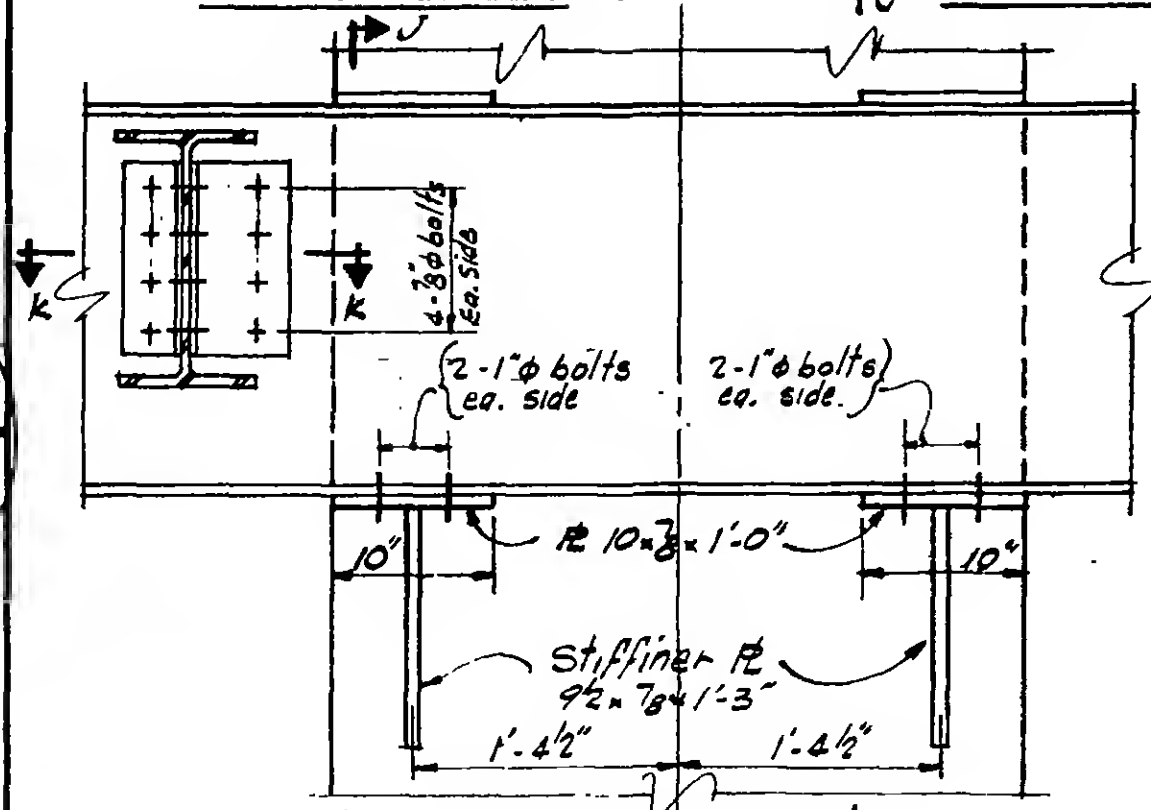
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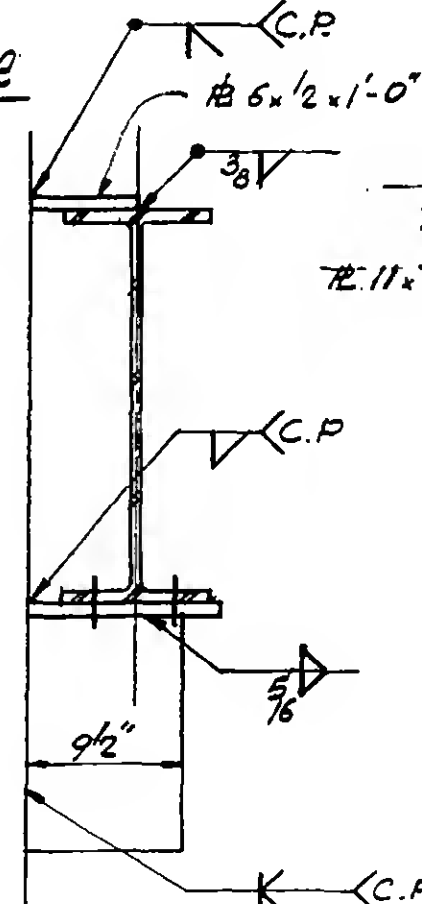
SECTION f-f



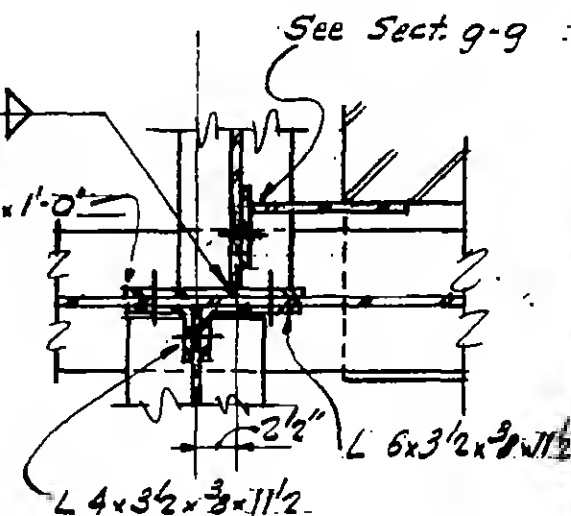
SECTION g-g



SECTION h-h



SECTION j-j



SECTION k-k



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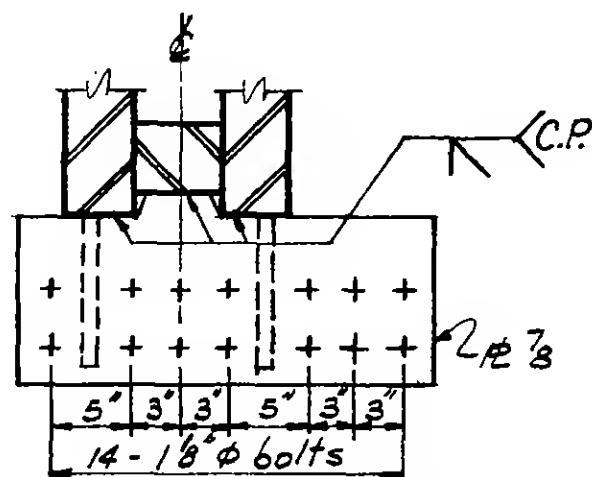
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 812 D, E, F & G

DATE 8-14-67

REVISIONS

2-9-68



SECTION 6-6

J (Det. 812 E)
F (Det. 812 D, F & G)

24 I2

Omit Shear &
Conn. Det. 812 F

24 I (Det. 812 D, F & G)
18 W (Det. 812 E)

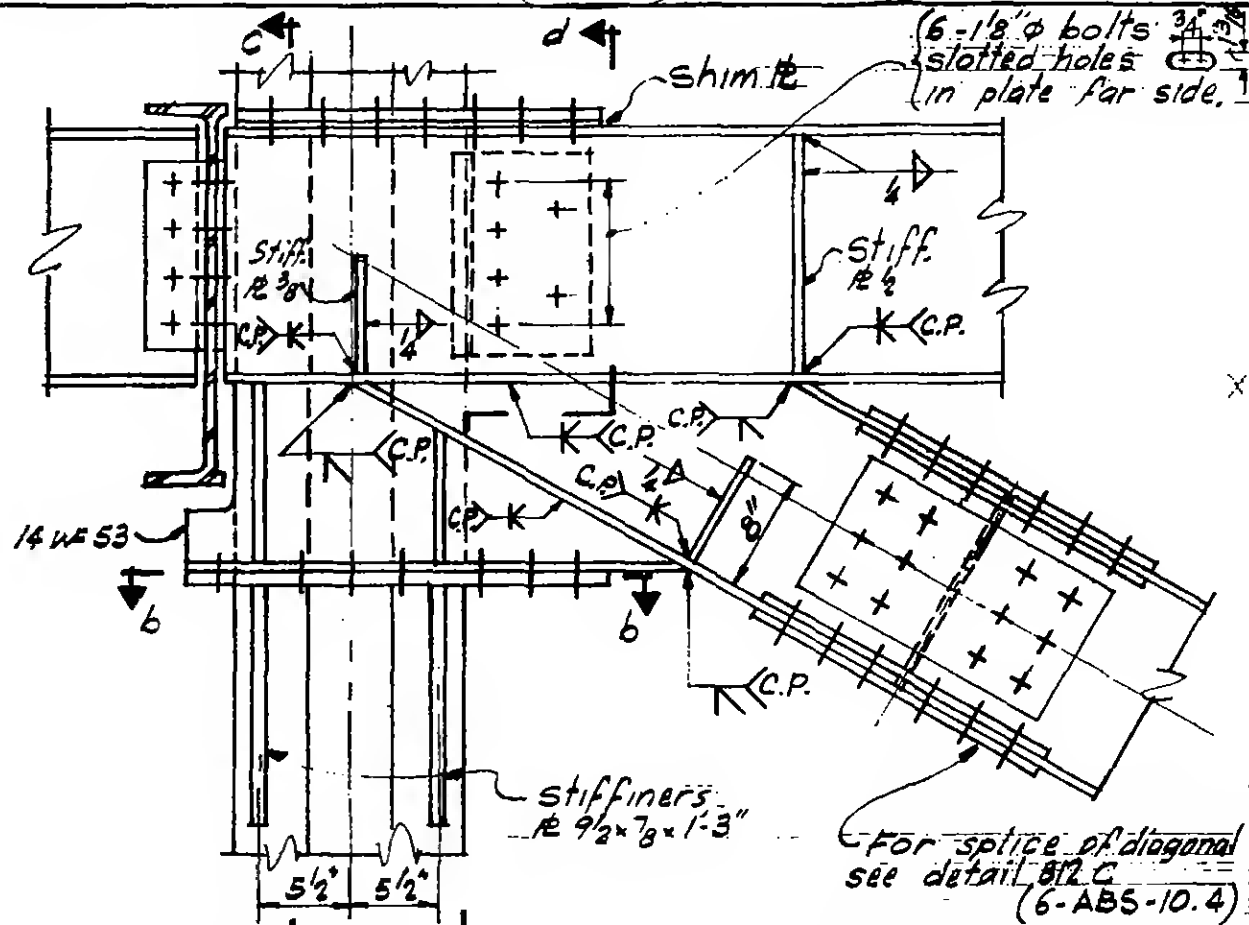
16 W7

9

J

F (6-ABS-10.8)

PLAN



SECTION 9-9

6-ABS-10.6



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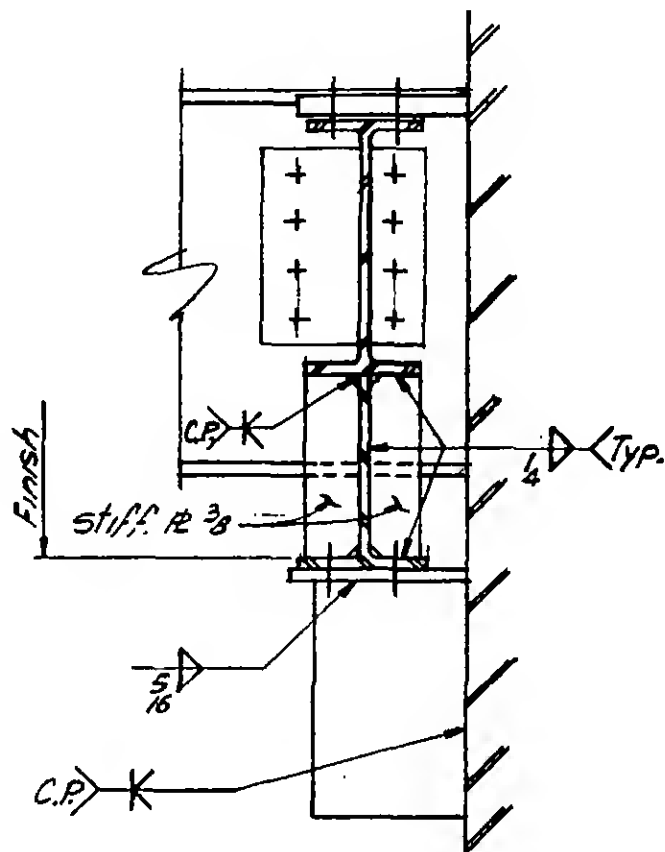
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 812 D, E, F & G

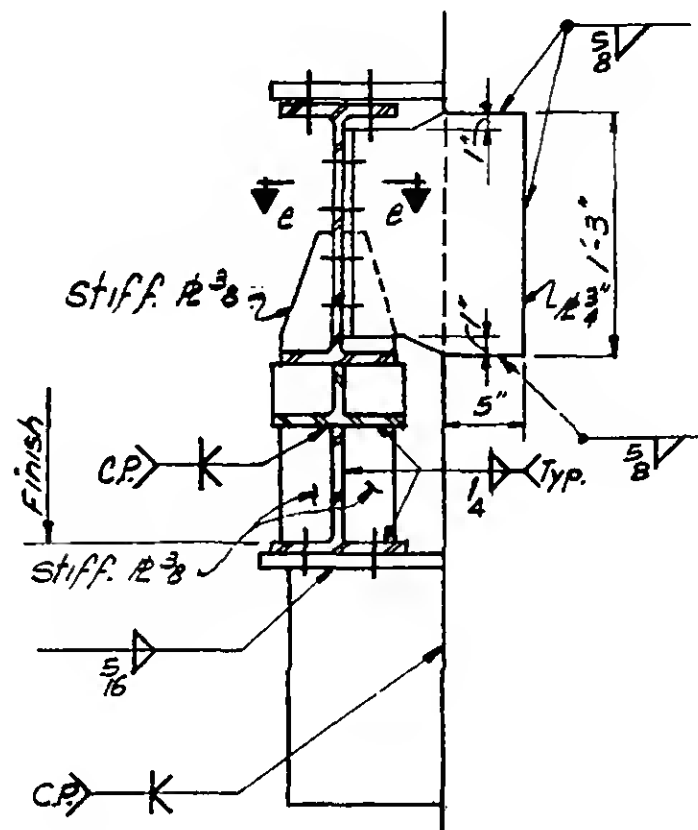
DATE 8-14-67

REVISIONS

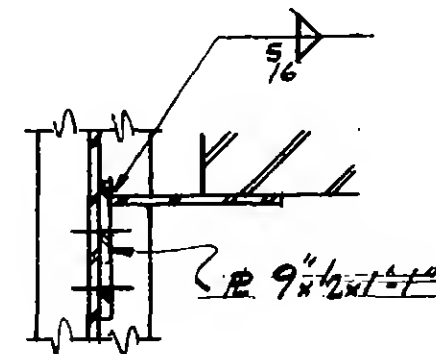
2-9-68



SECTION C-C



SECTION D-D



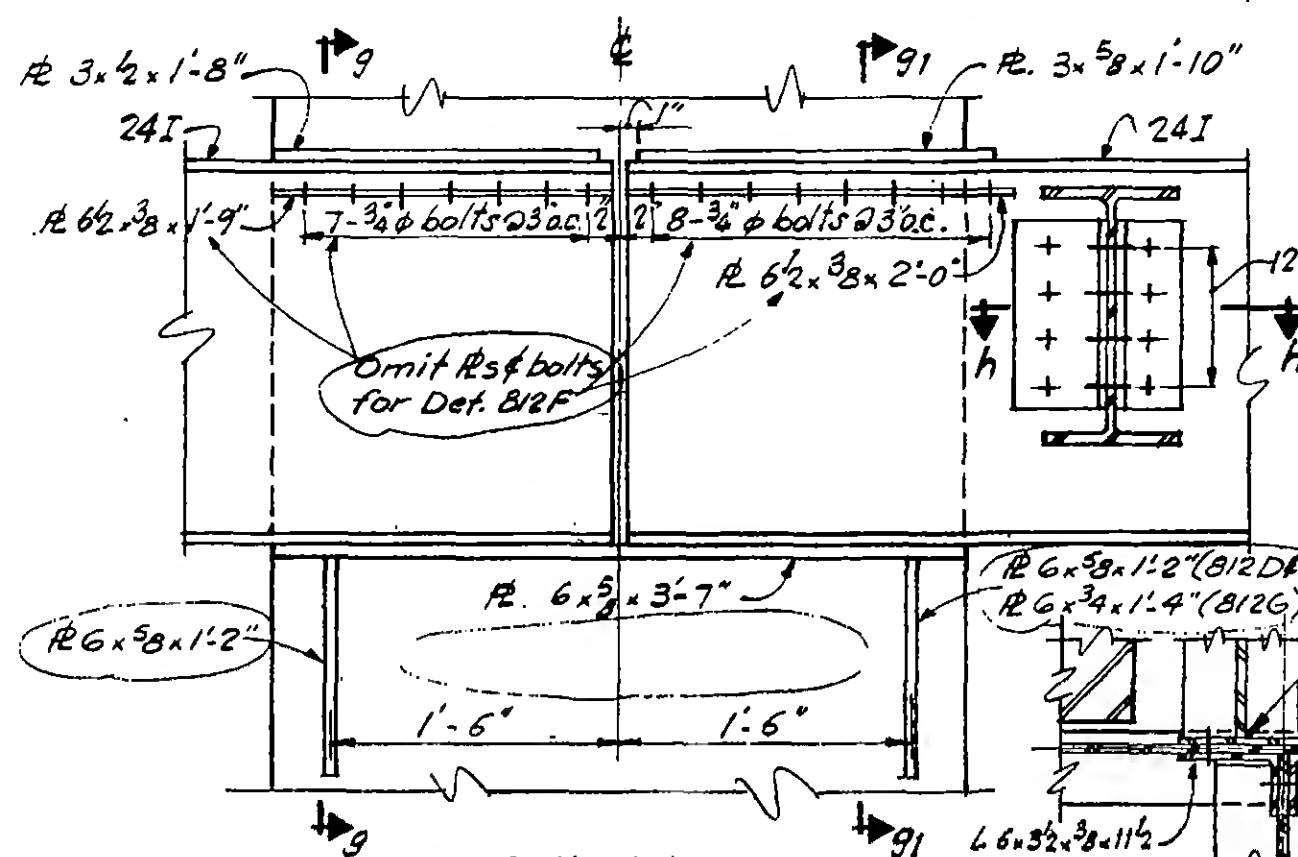
SECTION E-E



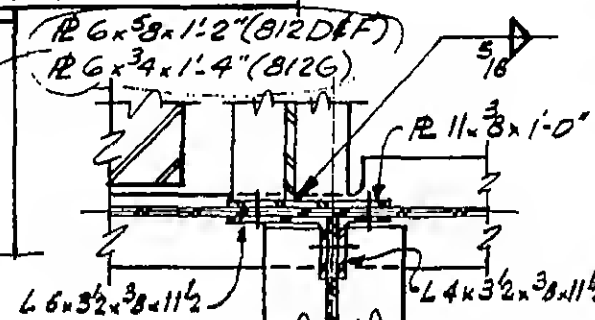
G-AB5-10.7

REVISIONS

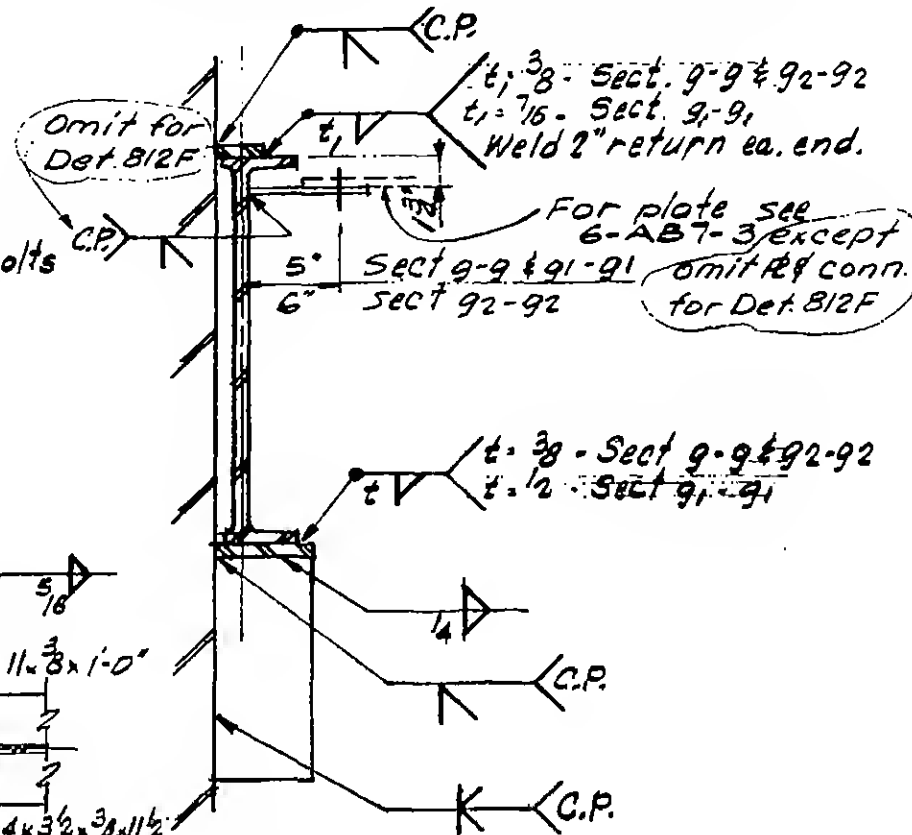
2-9-68



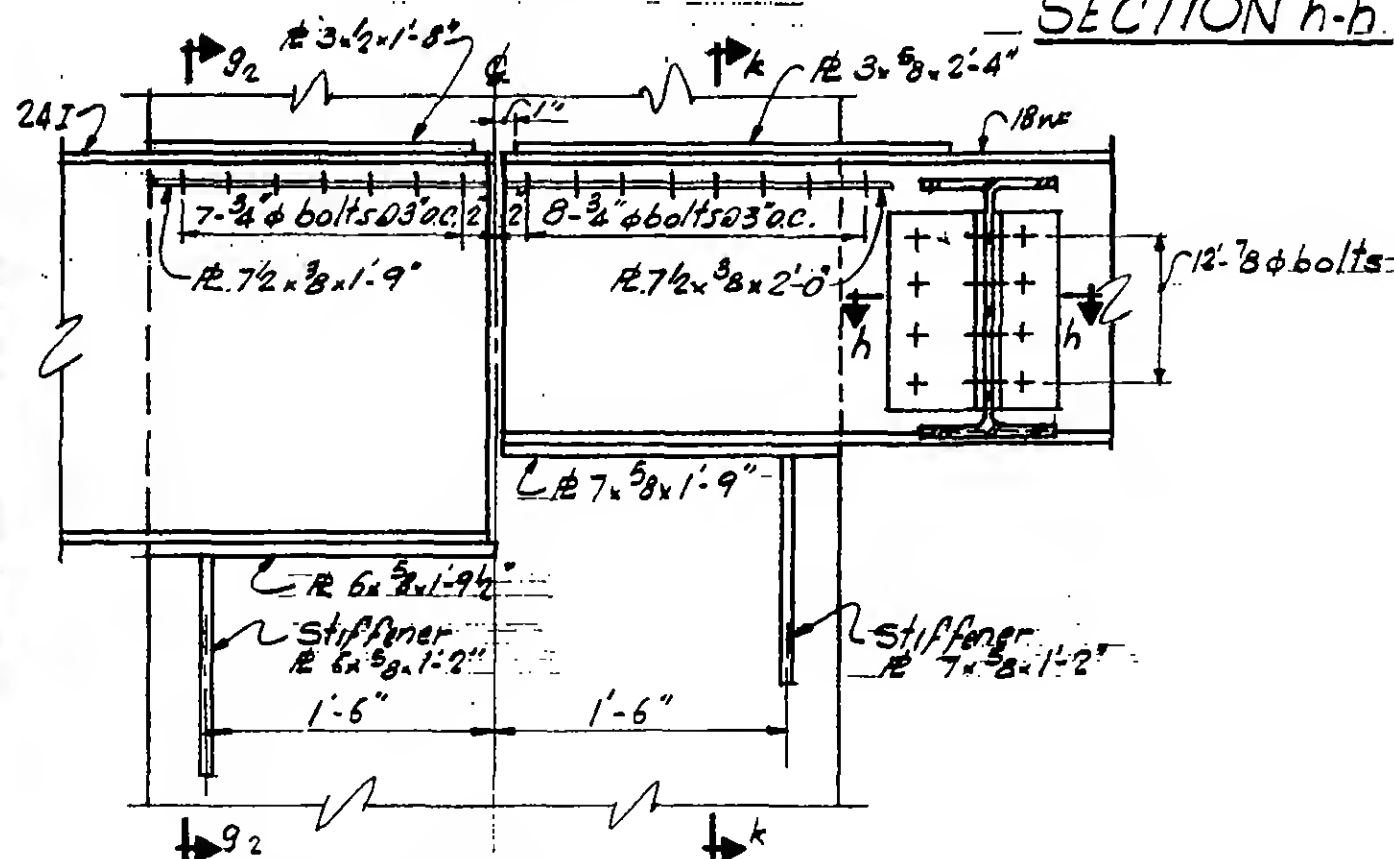
SECTION f-f



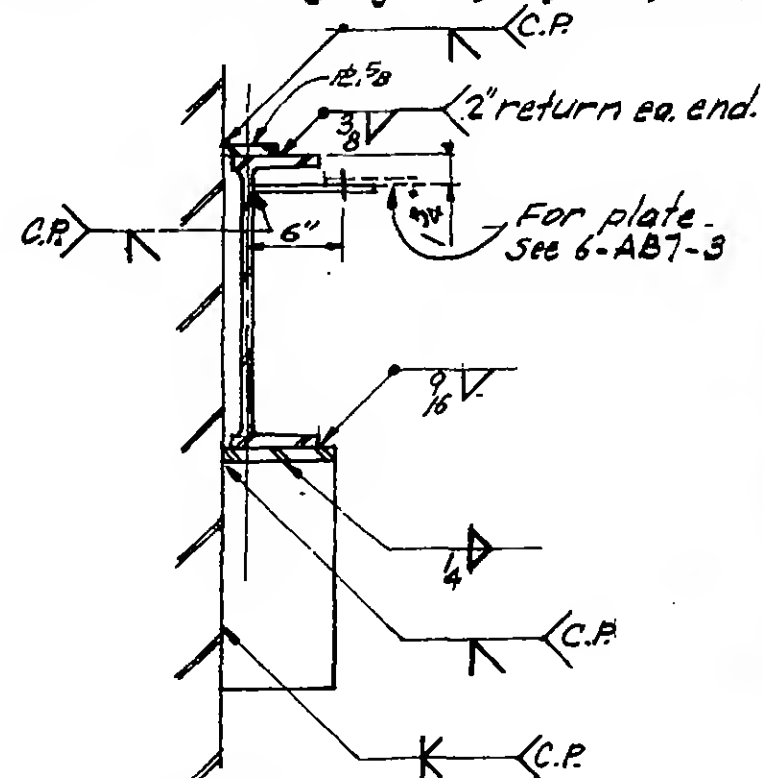
SECTION h-h



SECTION g-g, g1-g1 & g2-g2



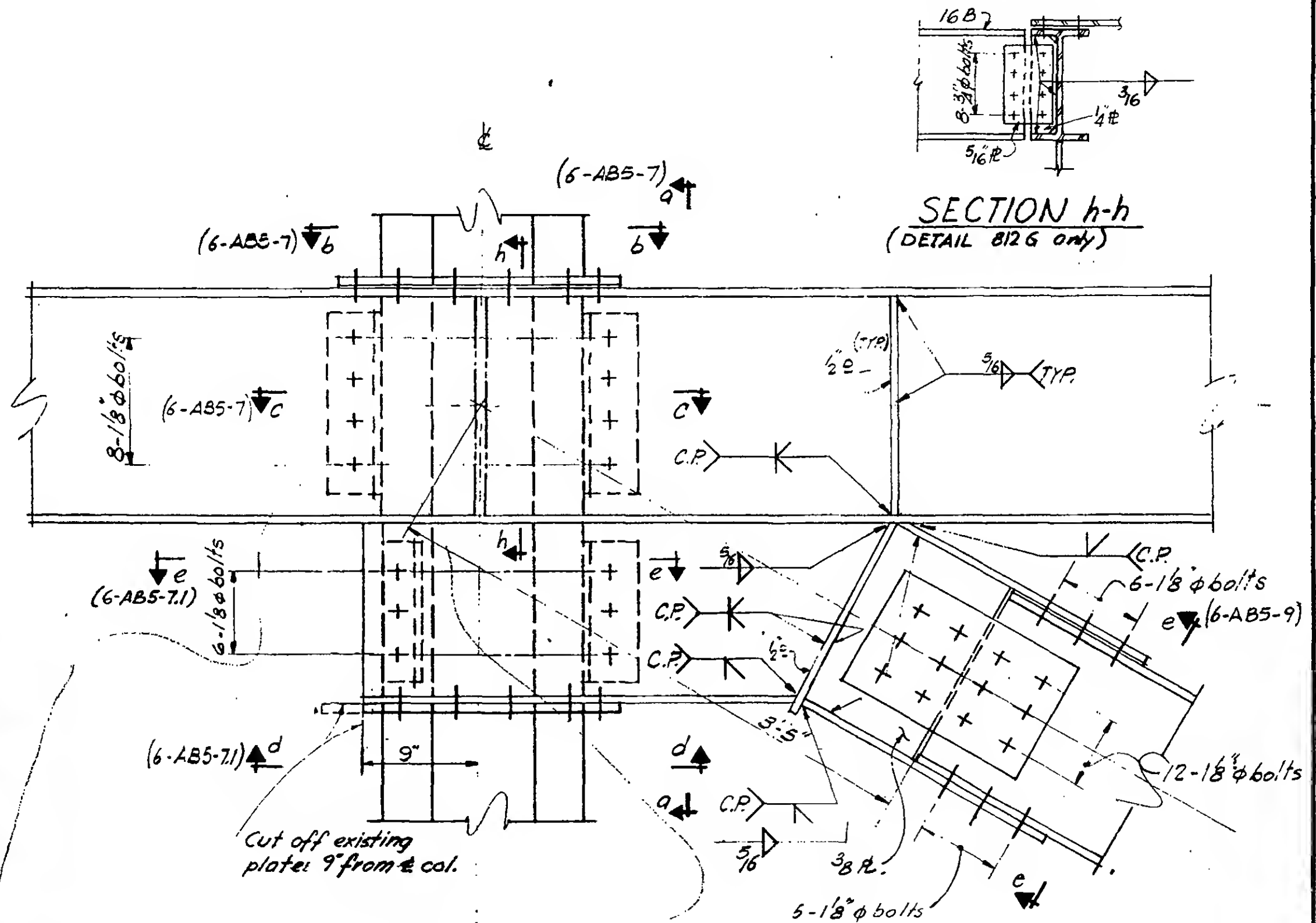
SECTION j-j



SECTION k-k



EVISIONS

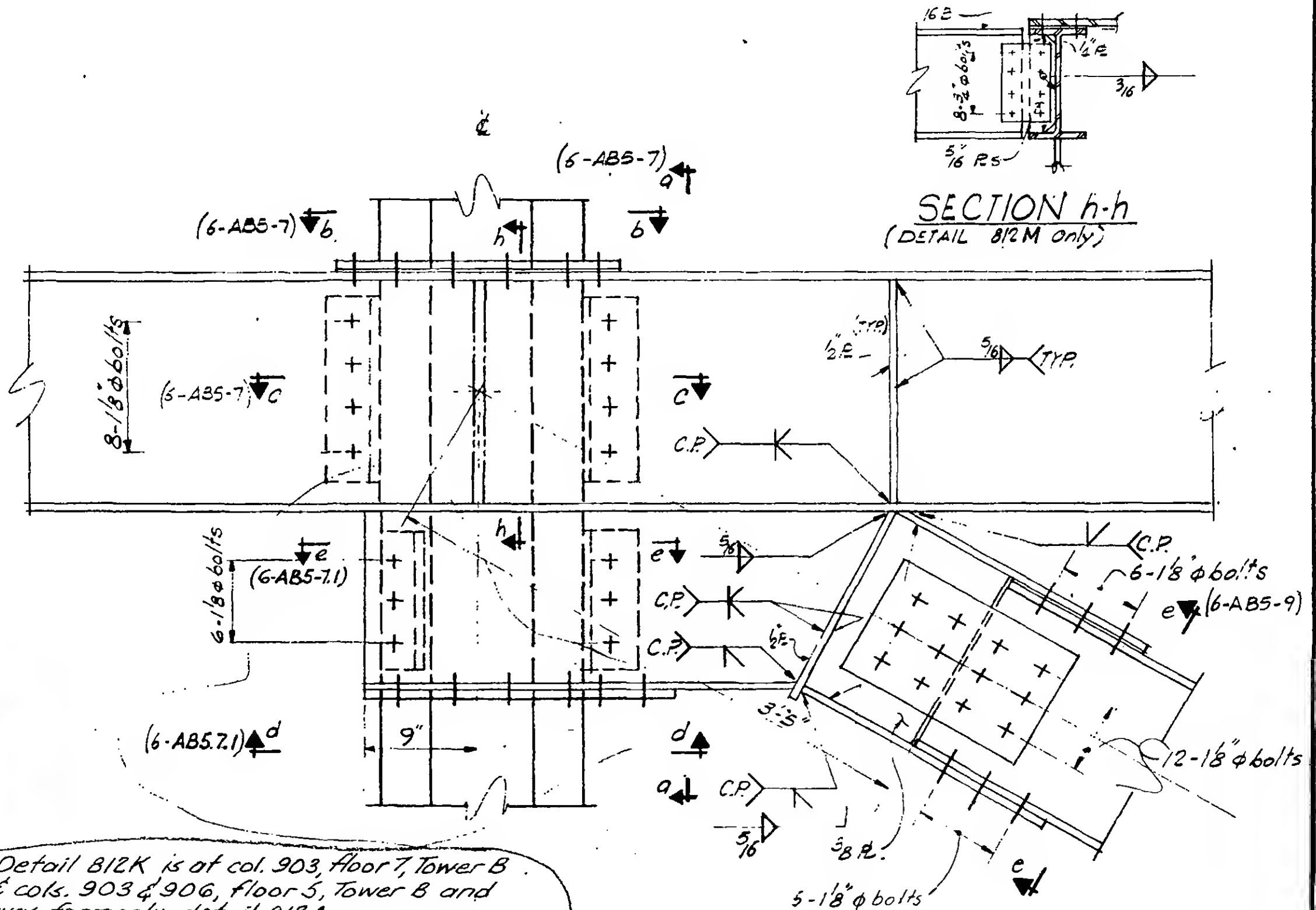


Detail B12H is at col. 906, floor 5,
Tower A and was formerly detail B12A.
Circled area indicates portion revised.



6-AB5-10.9

REVISIONS



Detail 812K is at col. 903, floor 7, Tower B & cols. 903 & 906, floor 5, Tower B and was formerly detail 812A.
Detail 812M is at col. 906, floor 7, Tower B and was formerly 812G.
Circled area indicates portion revised.



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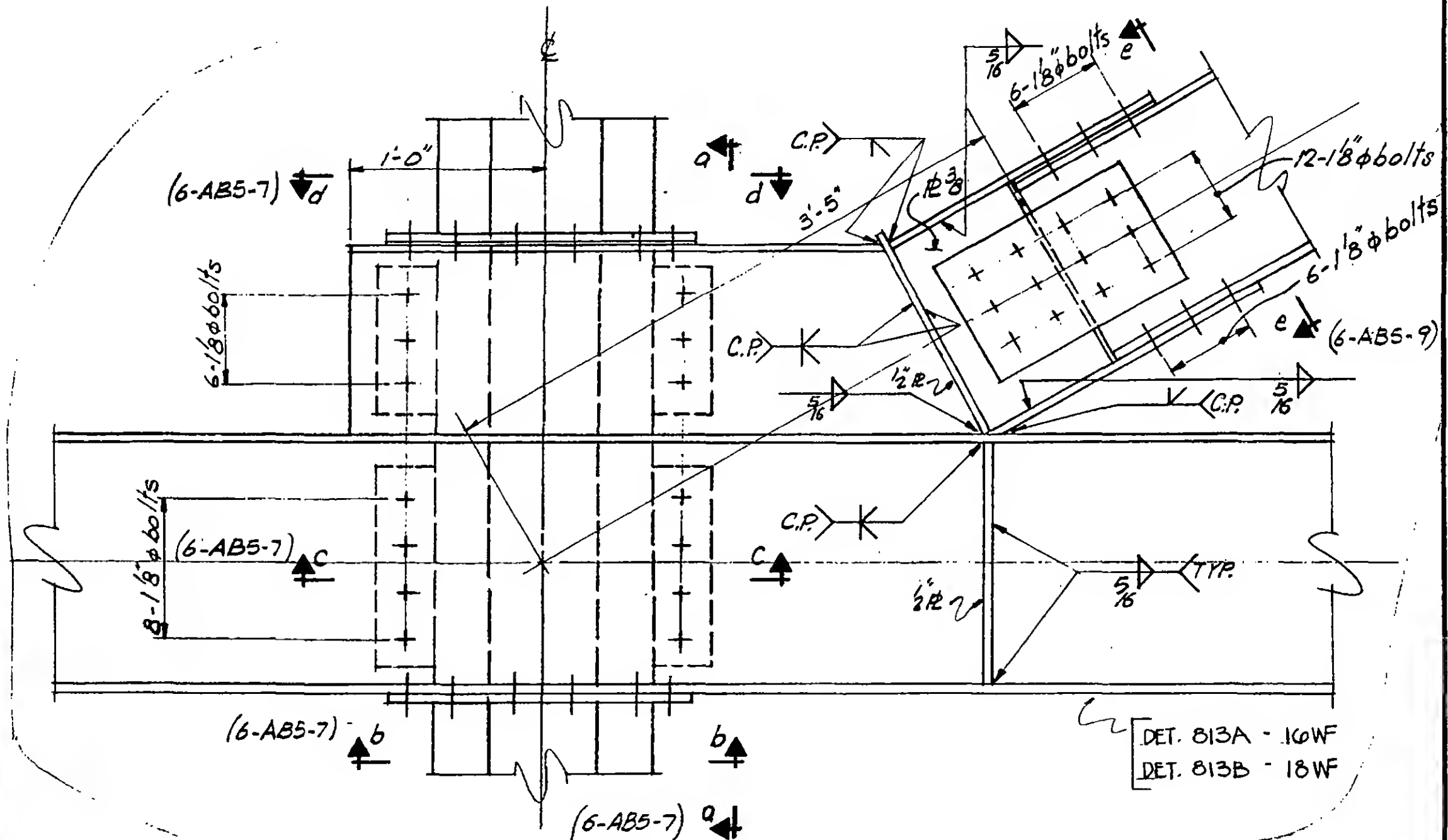
PROJECT THE WORLD TRADE CENTER

TITLE VERTICAL BRACING DETAIL 813 A & 813 B

DATE 6-19-67

REVISIONS

8-14-67

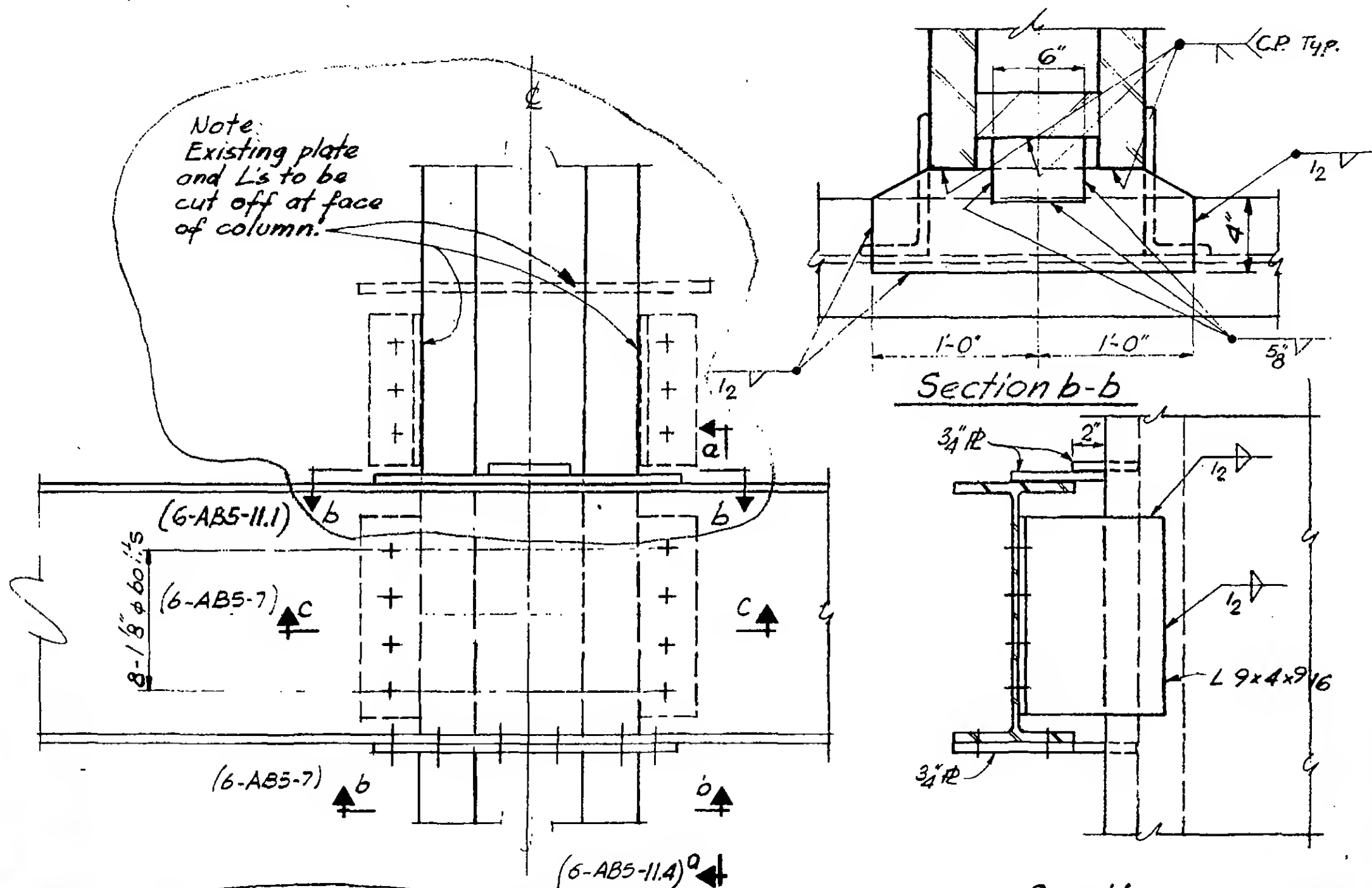


DET. 813A - 16WF
DET. 813B - 18WF

6-AB5-11



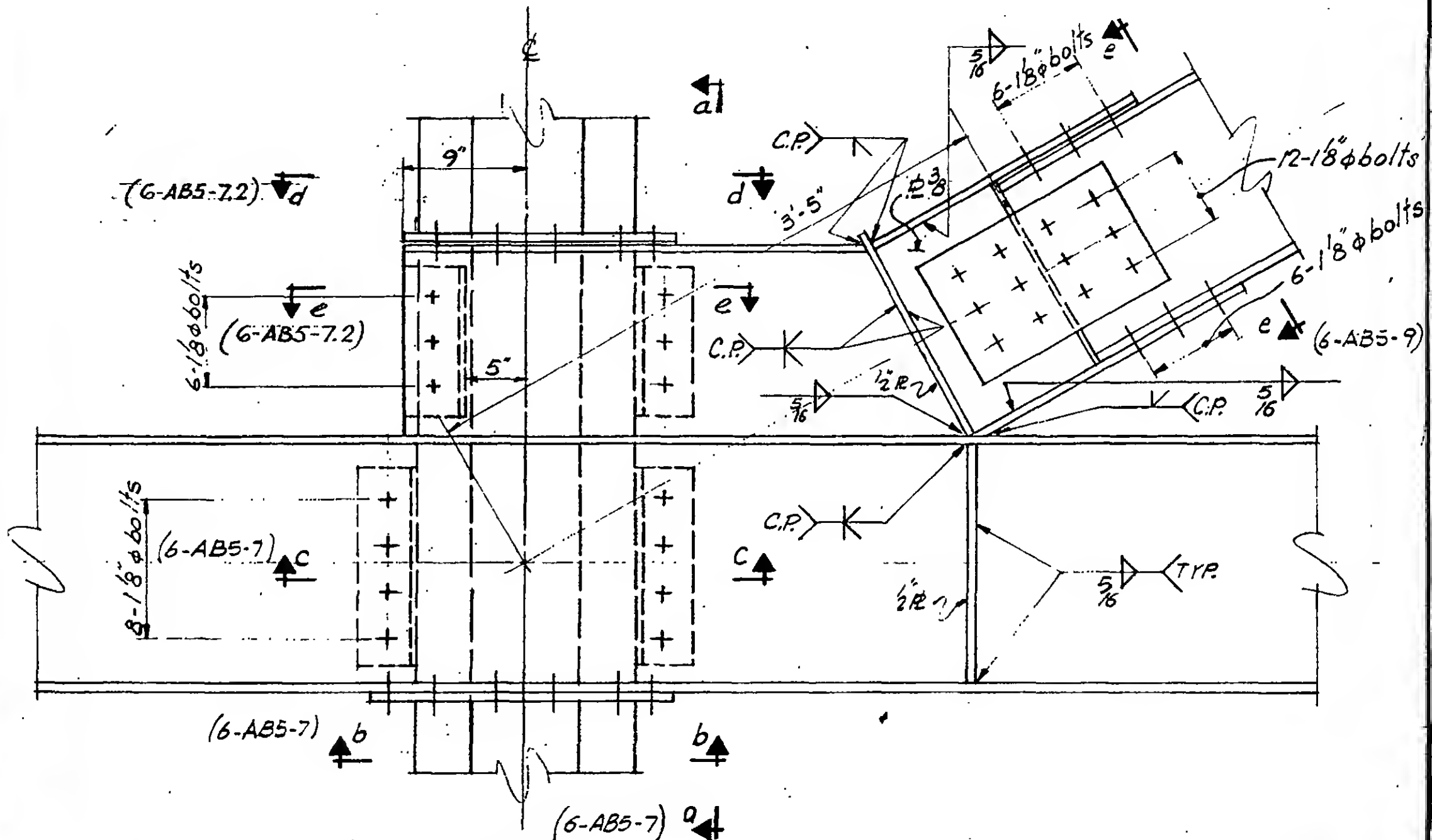
REVISIONS



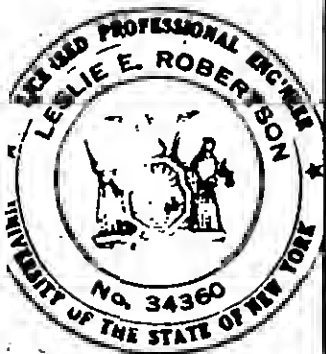
Detail 813C is at col. 604, floor 4, Tower A
and was formerly detail 813A.
Circled area indicates portion revised.



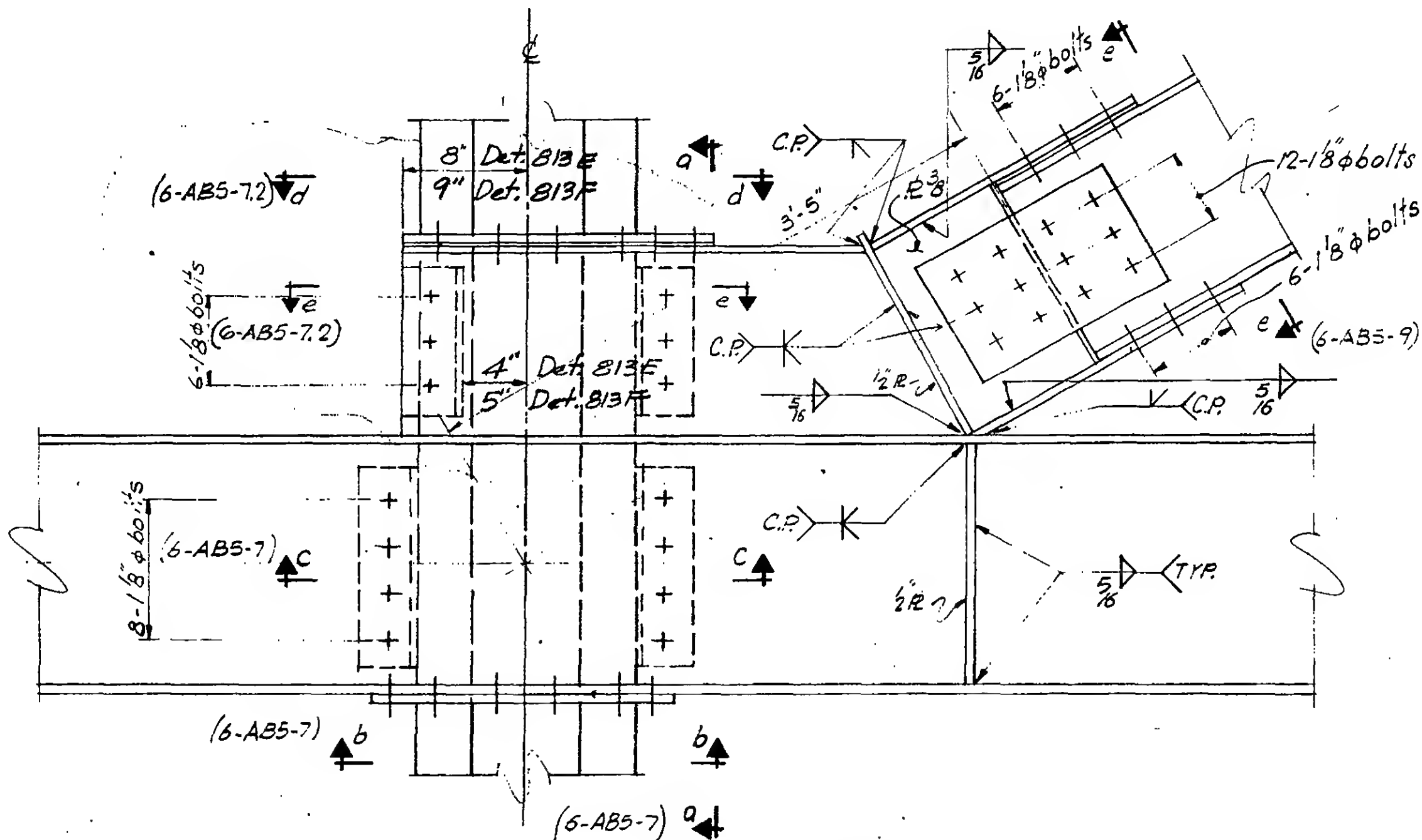
REVISIONS



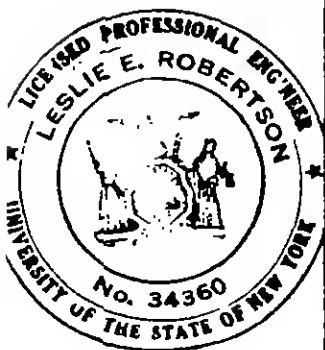
Detail 813D is at col 906, floor 2,
Tower A and was formerly detail 813B.
Circled area indicates portion revised.



REVISIONS

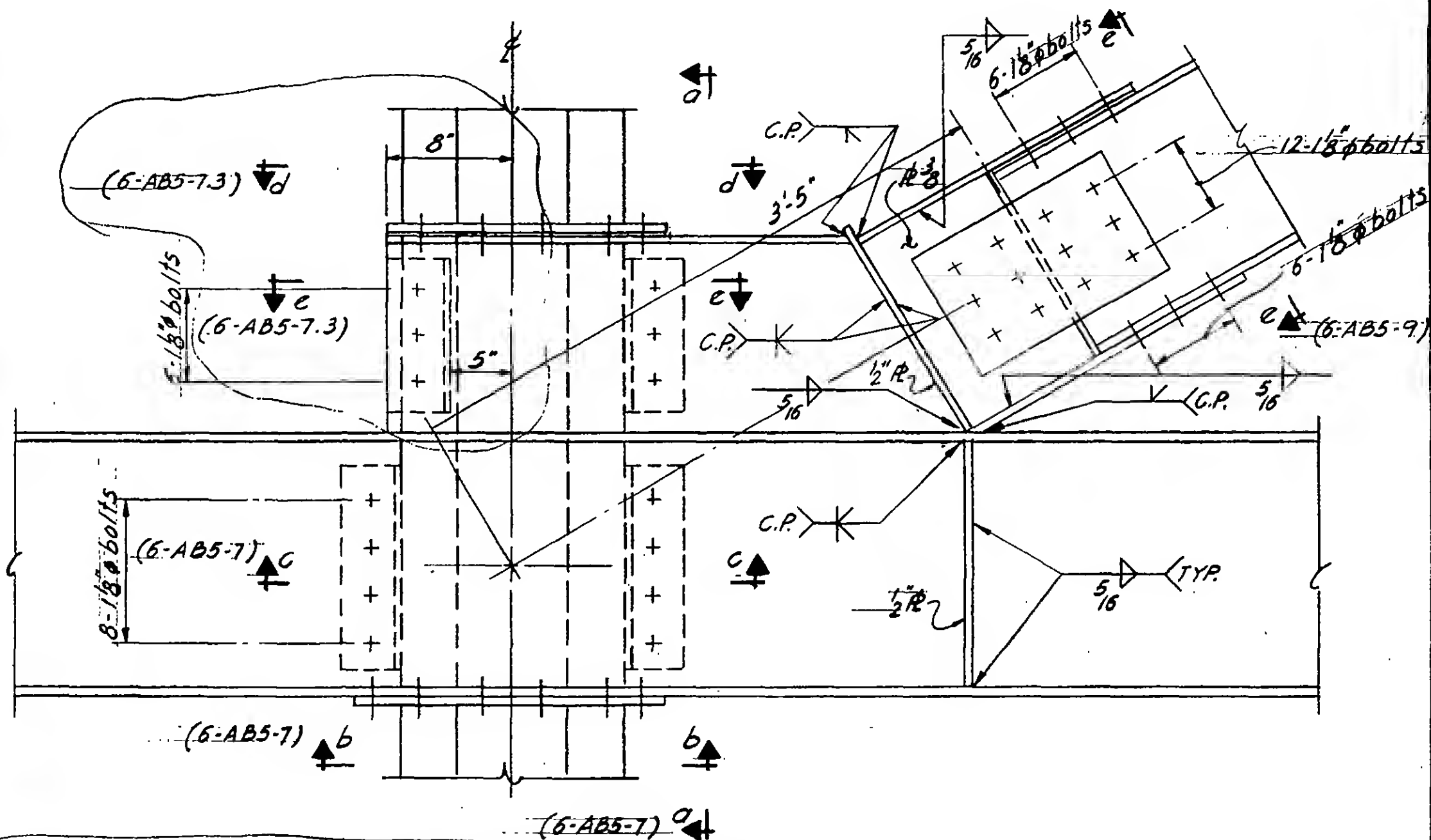


Detail 813 F is at cols. 903 & 906, floor 2, Tower B. Detail 813 E is at col. 605, floor 4, Tower B & cols. 604 & 605, floor 6, Tower B and was formerly detail 813 A or B. Circled area indicates portion revised.

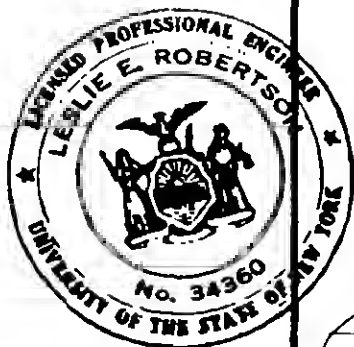


PROJECT THE WORLD TRADE CENTERTITLE VERTICAL BRACING DETAIL 8136DATE 3-13-68

REVISIONS



Detail 8136 is at col. 604, floor 6, col. 605, floor 4 & 6
 Tower A and was formerly detail 813A
 Circled area indicates portion revised.



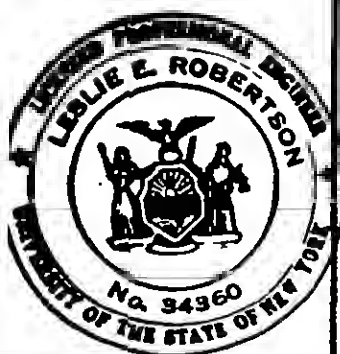
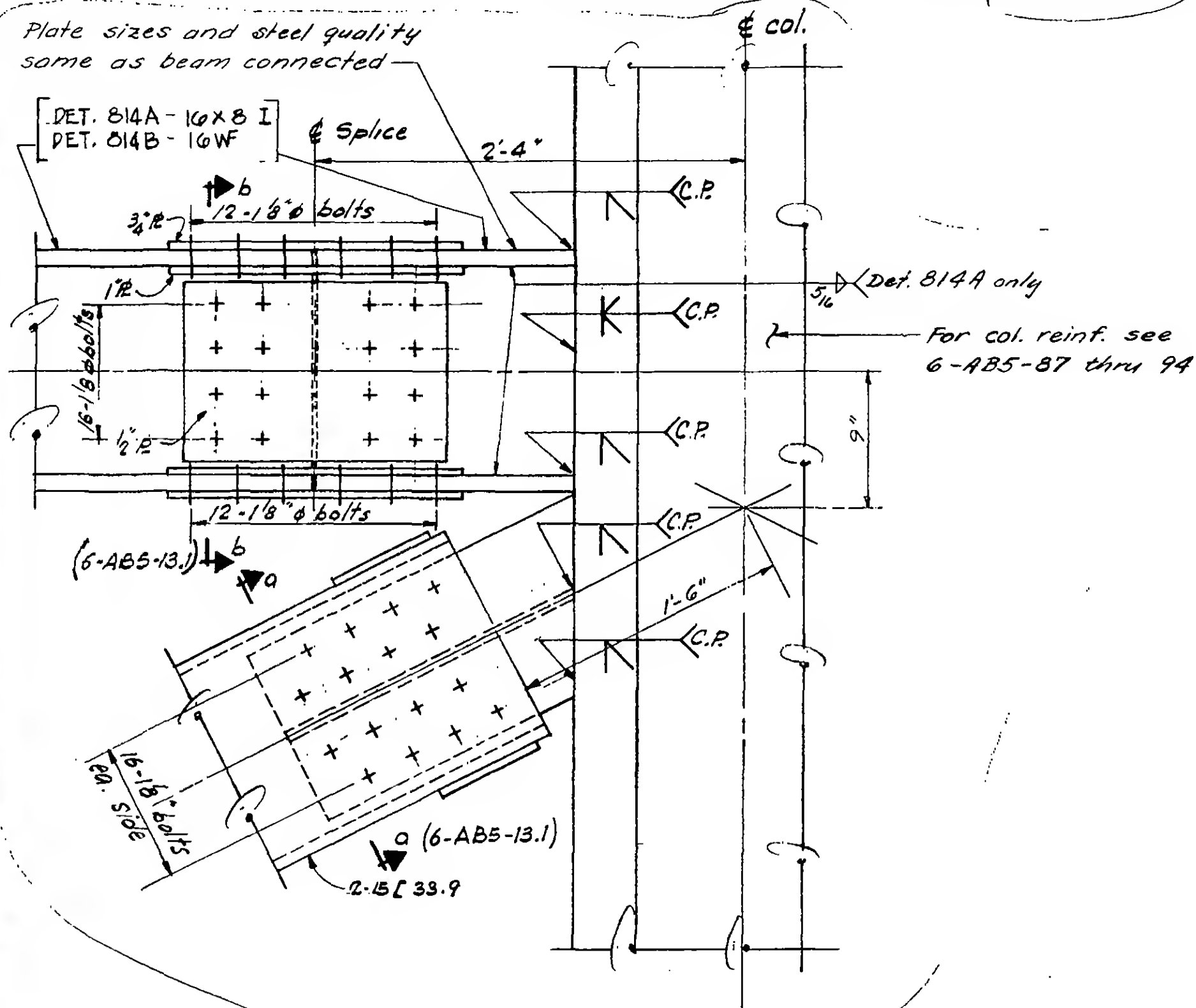
6-AB5-11.4

REVISIONS

8-14-67

Plate sizes and steel quality
same as beam connected

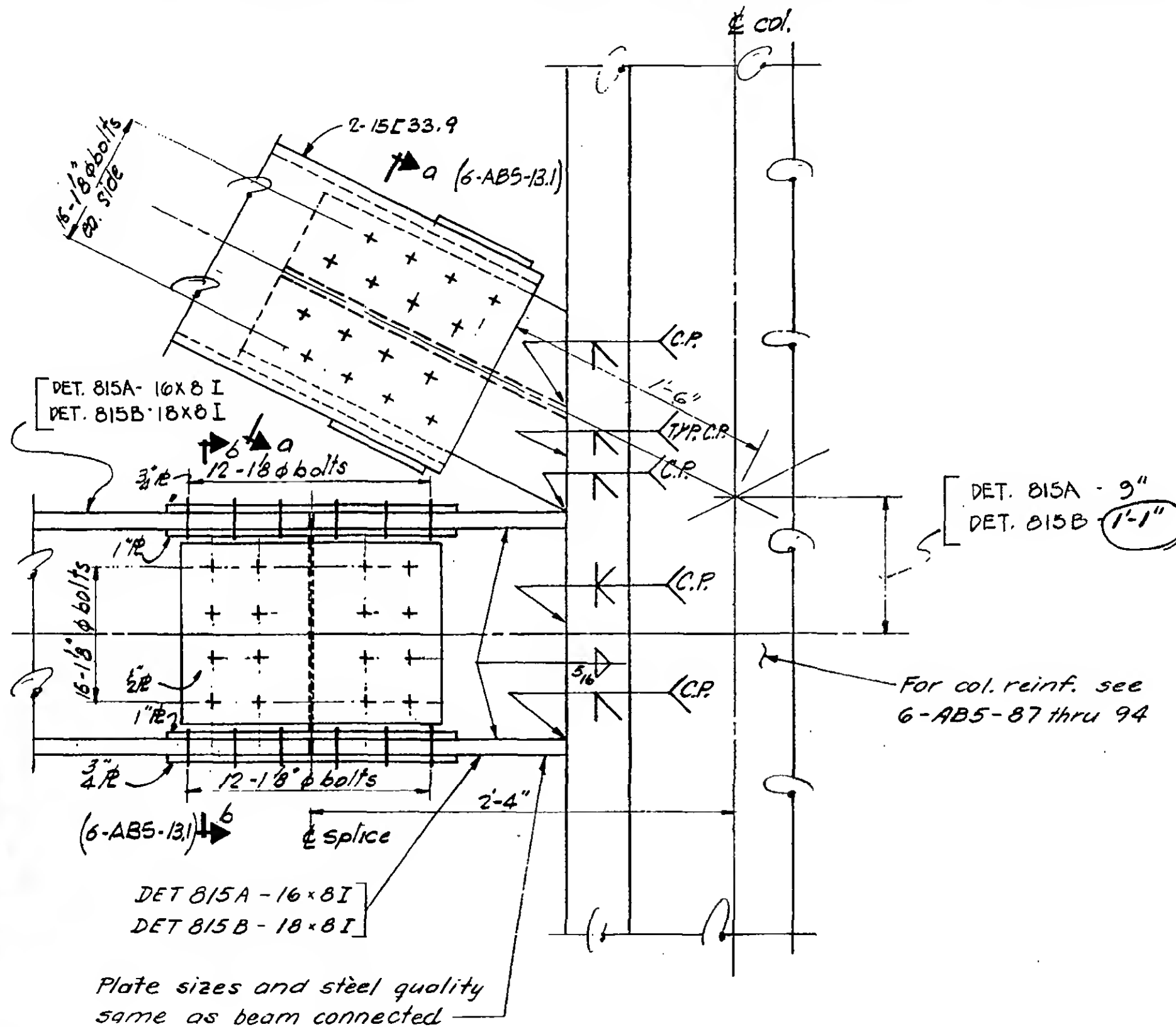
[DET. 814A - 16x8 I
DET. 814B - 16WF



REVISIONS

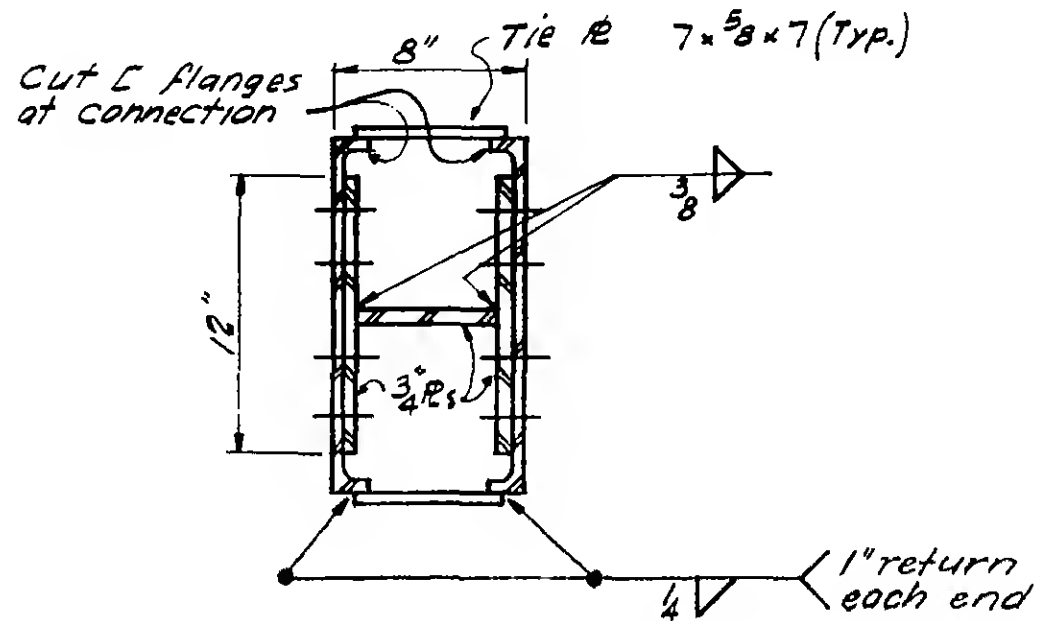
8-14-67

9-29-67

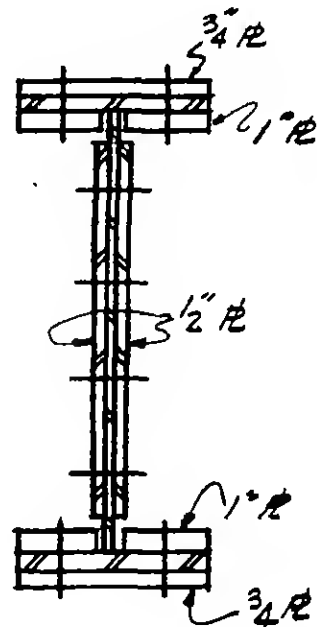


6-AB5-13

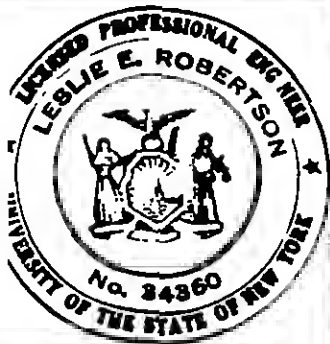
REVISIONS



SECTION a-a



SECTION b-b



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Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

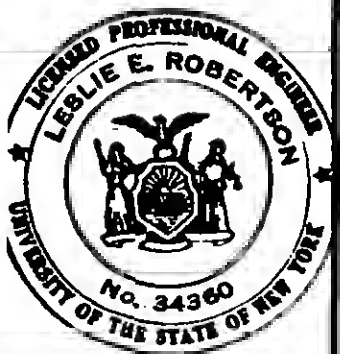
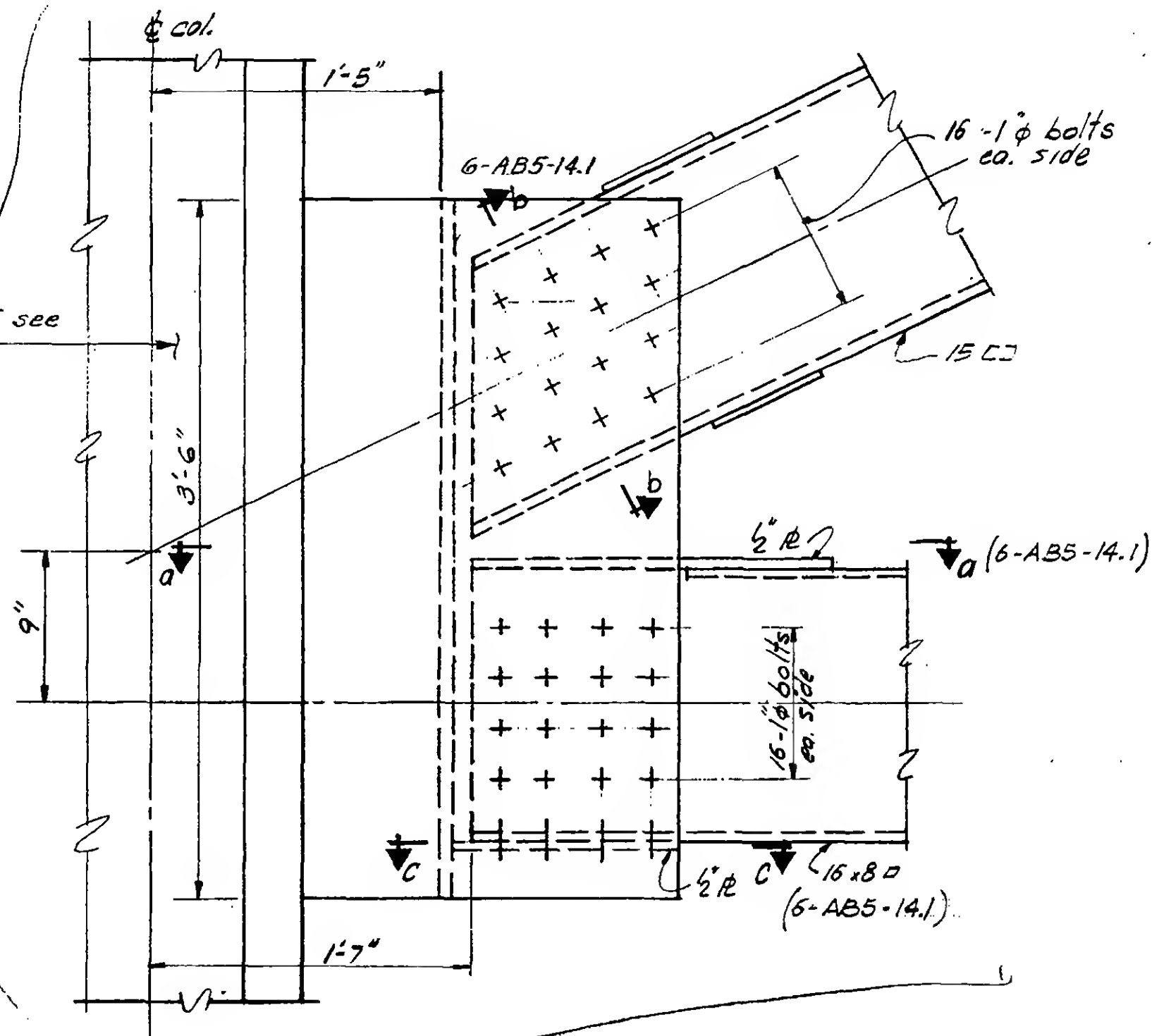
TITLE VERTICAL BRACING DETAIL 816 A

DATE 6-19-67

REVISIONS

8-14-67

For col. reinf. see
6-AB5-90



6-AB5-14

WORTHINGTON, SKILLING, HELLE & JACKSON

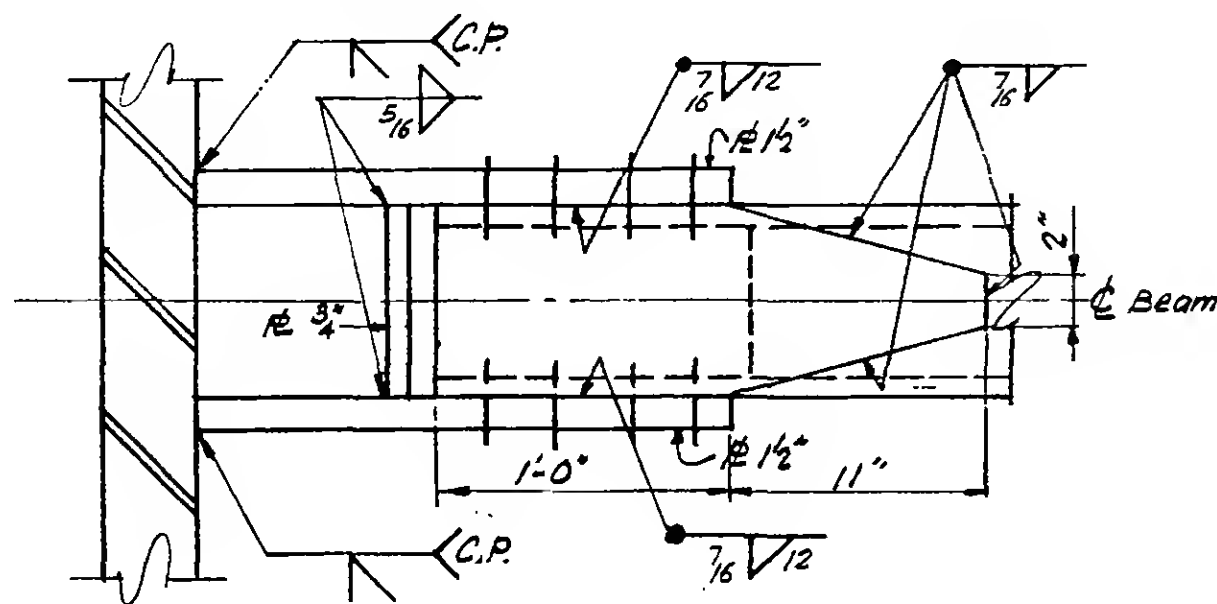
Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

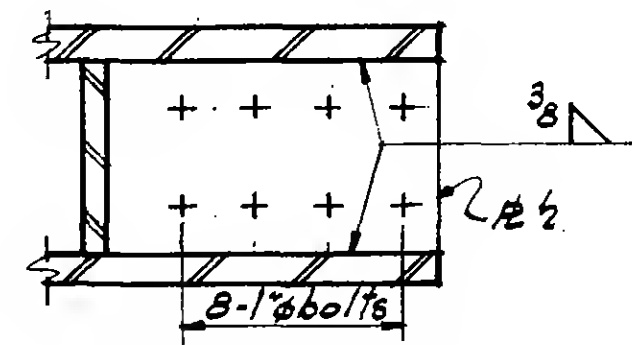
TITLE SECTION DETAILS 816A & 817A

DATE 8-14-67

REVISIONS

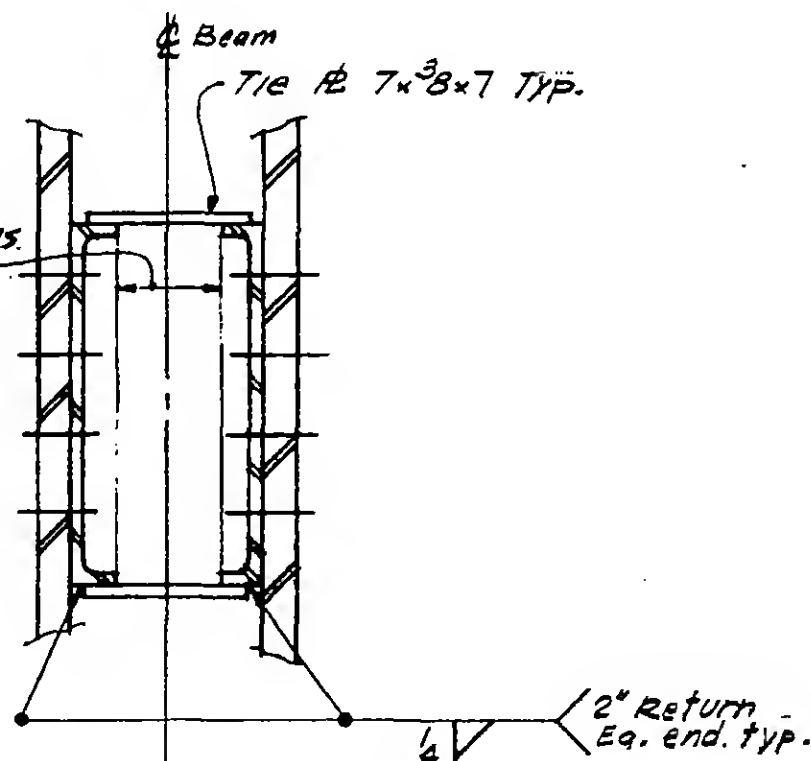


SECTION a-a



Section c-c

Note:
Cut channel flanges
at connection



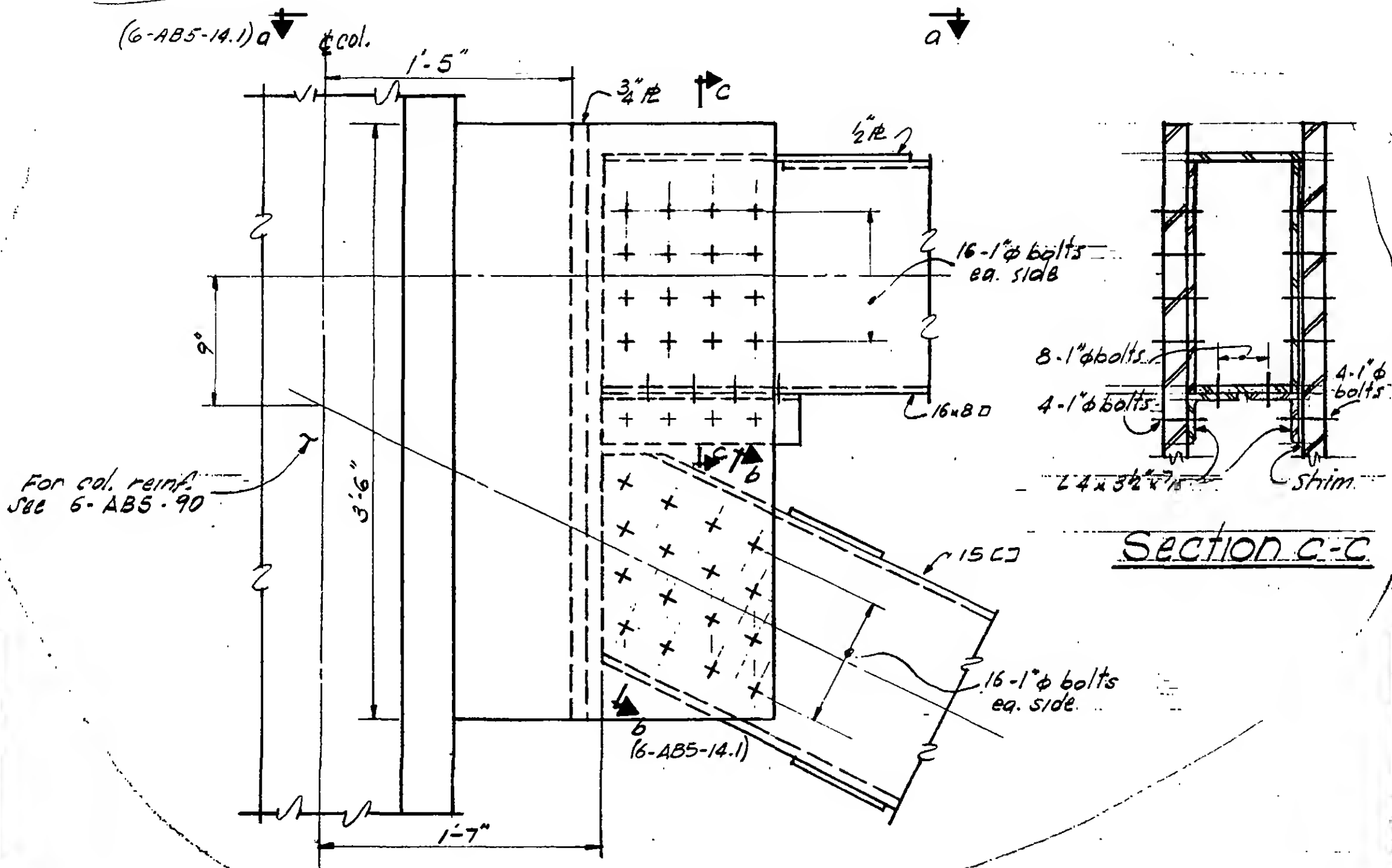
SECTION b-b



G-AB5-14.1

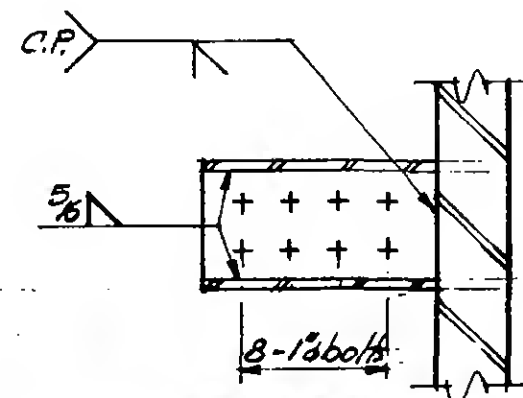
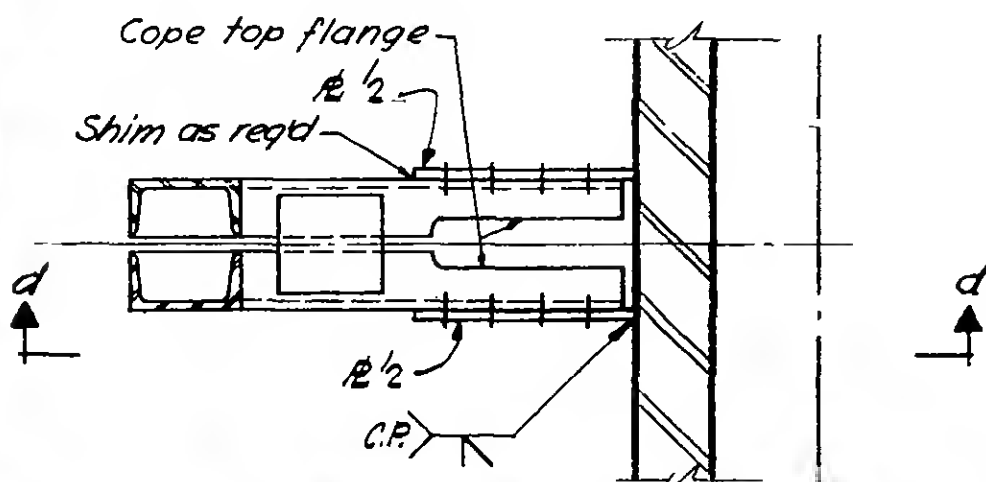
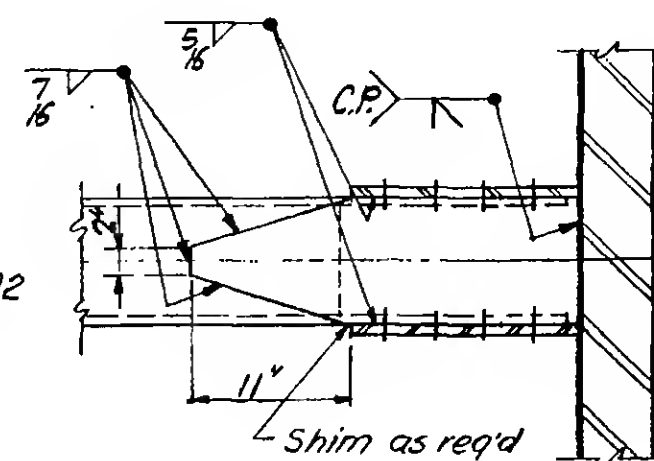
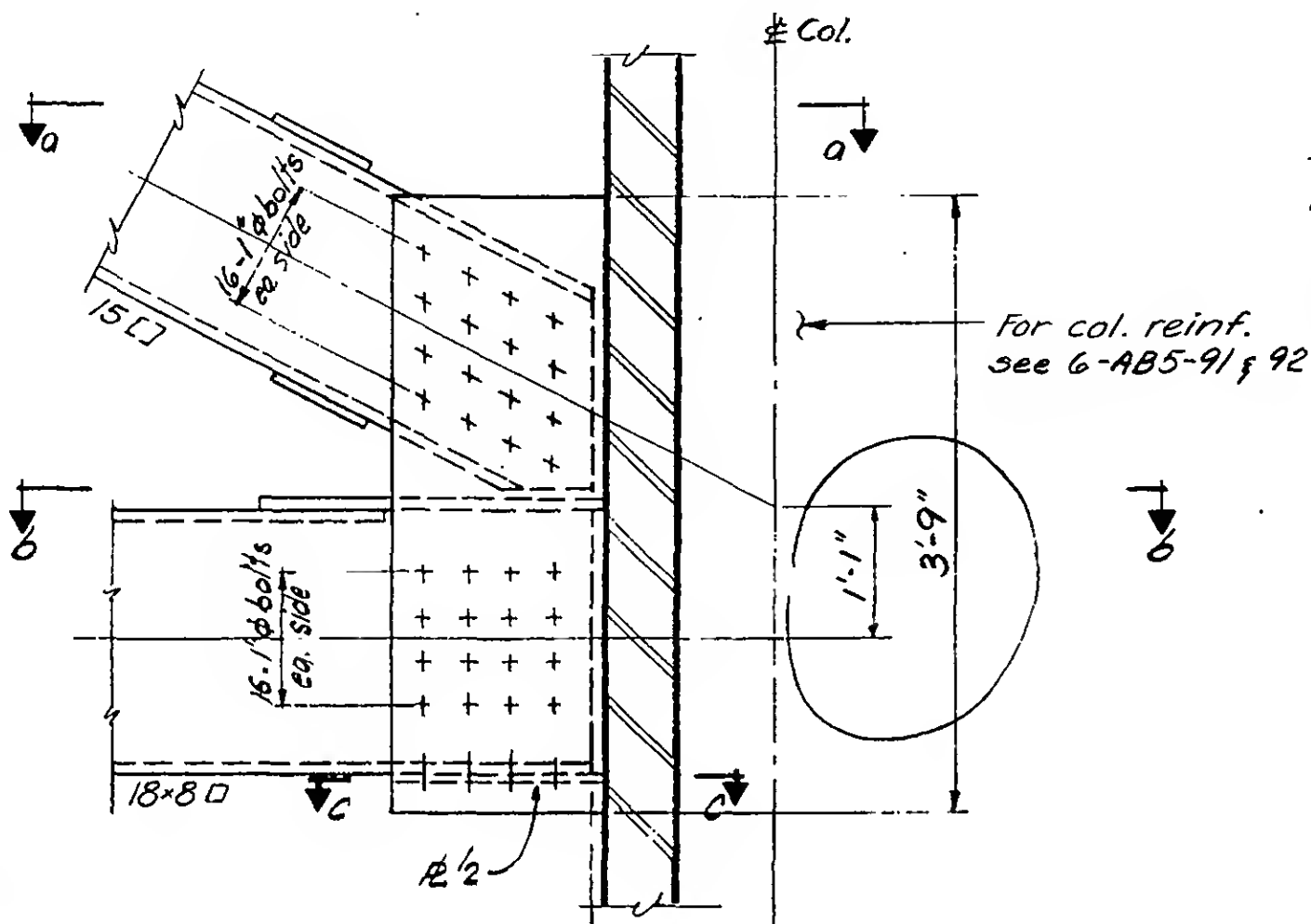
REVISIONS

8-14-67



REVISIONS

8-14-67
9-29-67



PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 830 A

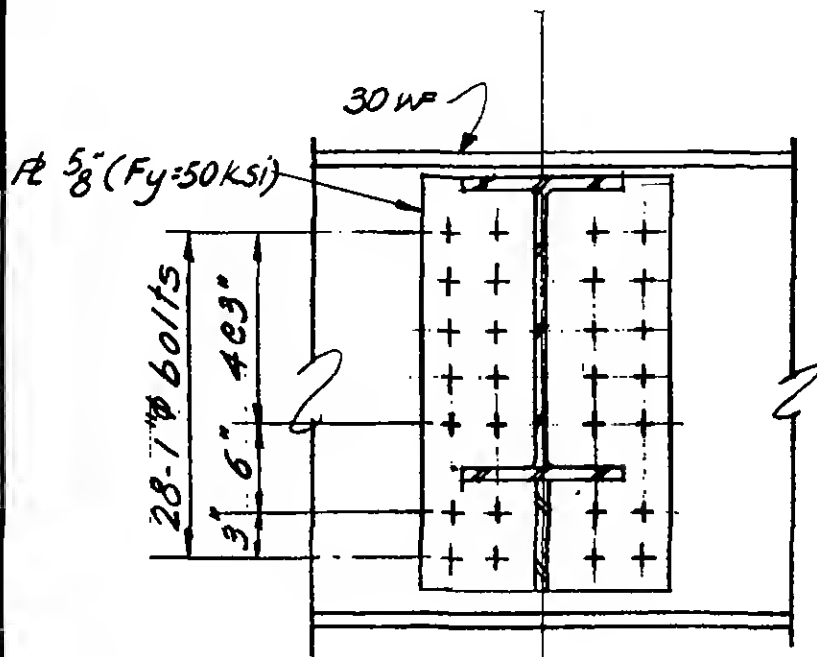
DATE 7-14-67

REVISIONS

9-29-67

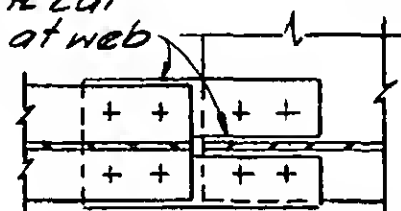
10-31-67

12-14-67



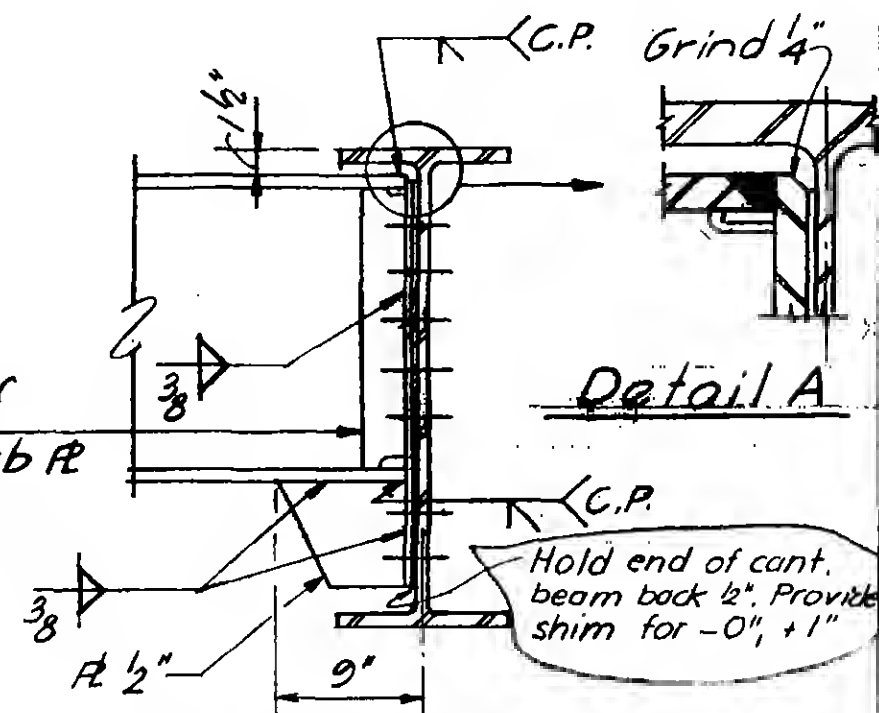
Section b-b

Splice R cut notch at web

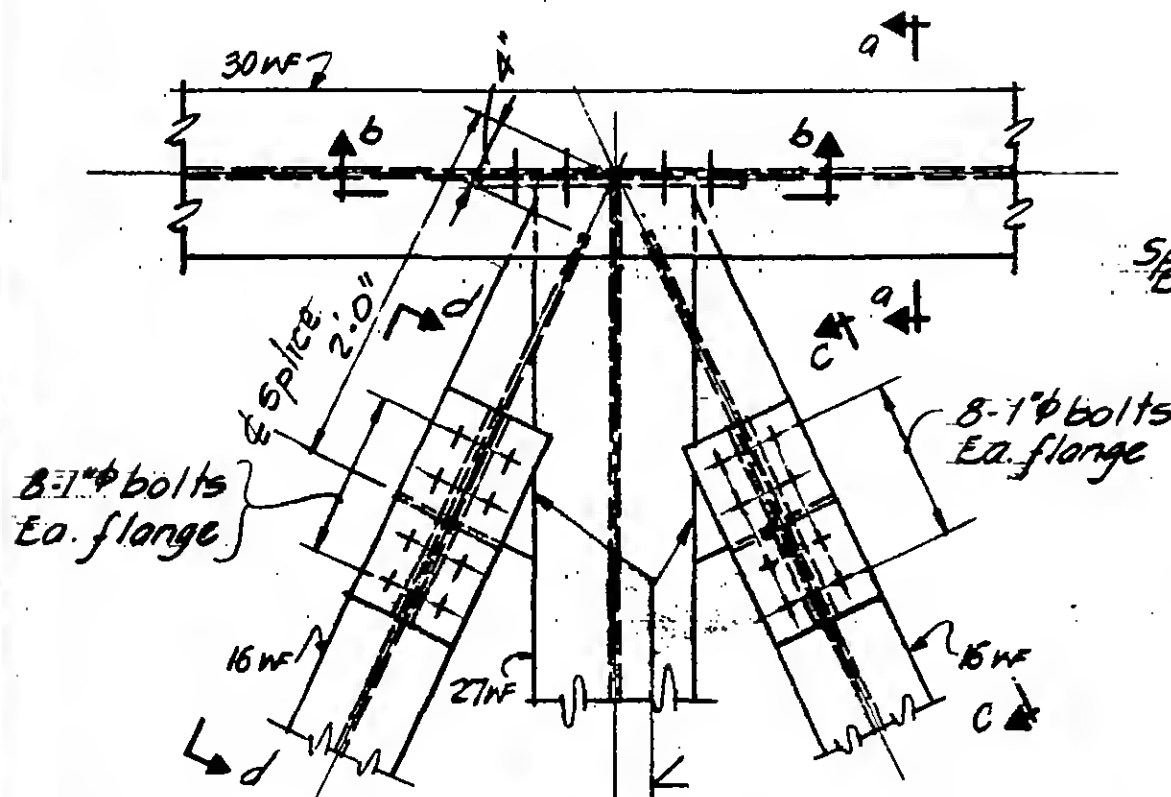


Section e-e

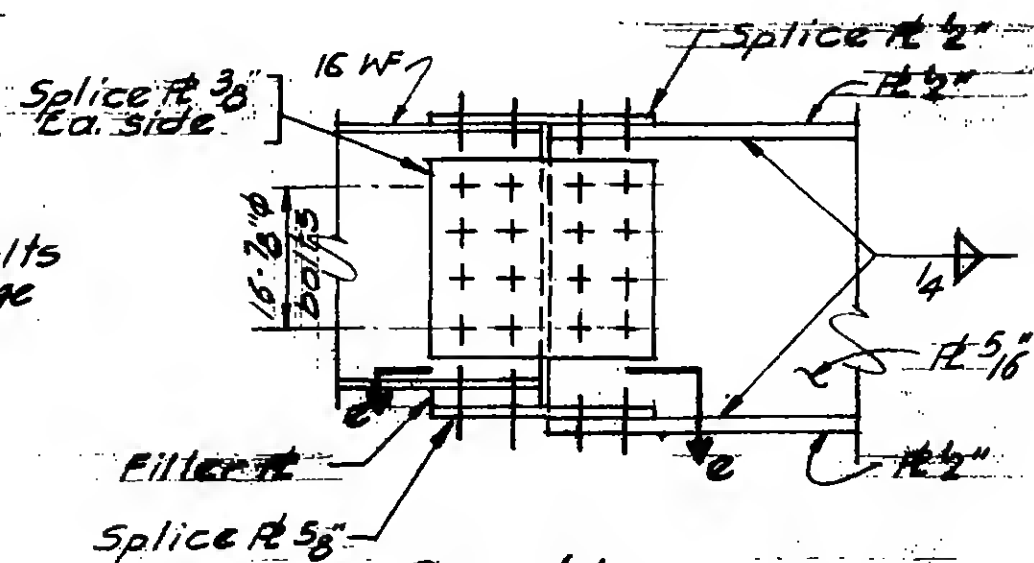
Edge of diag. web R



Section a-a



Plan



Section c-c

Section d-d (Opp. hand)

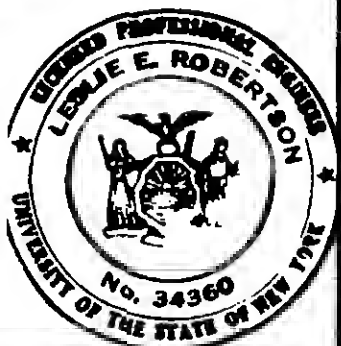
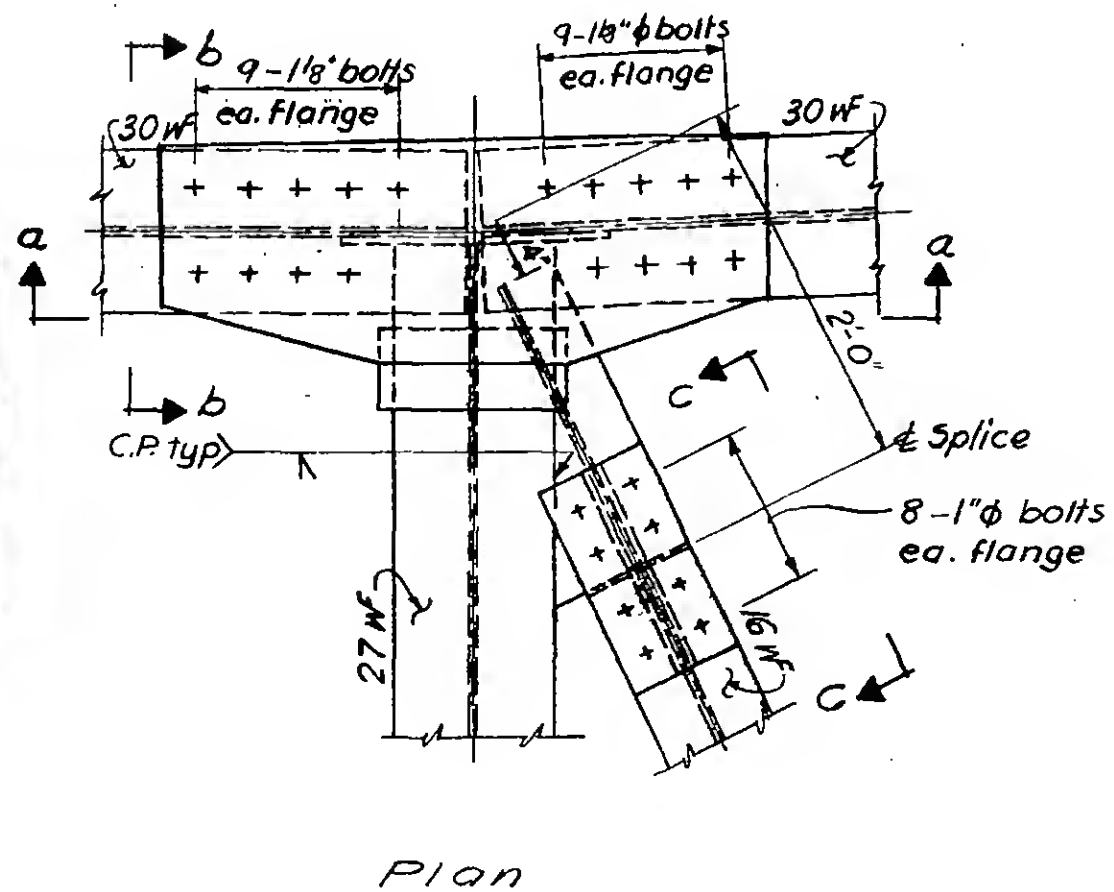
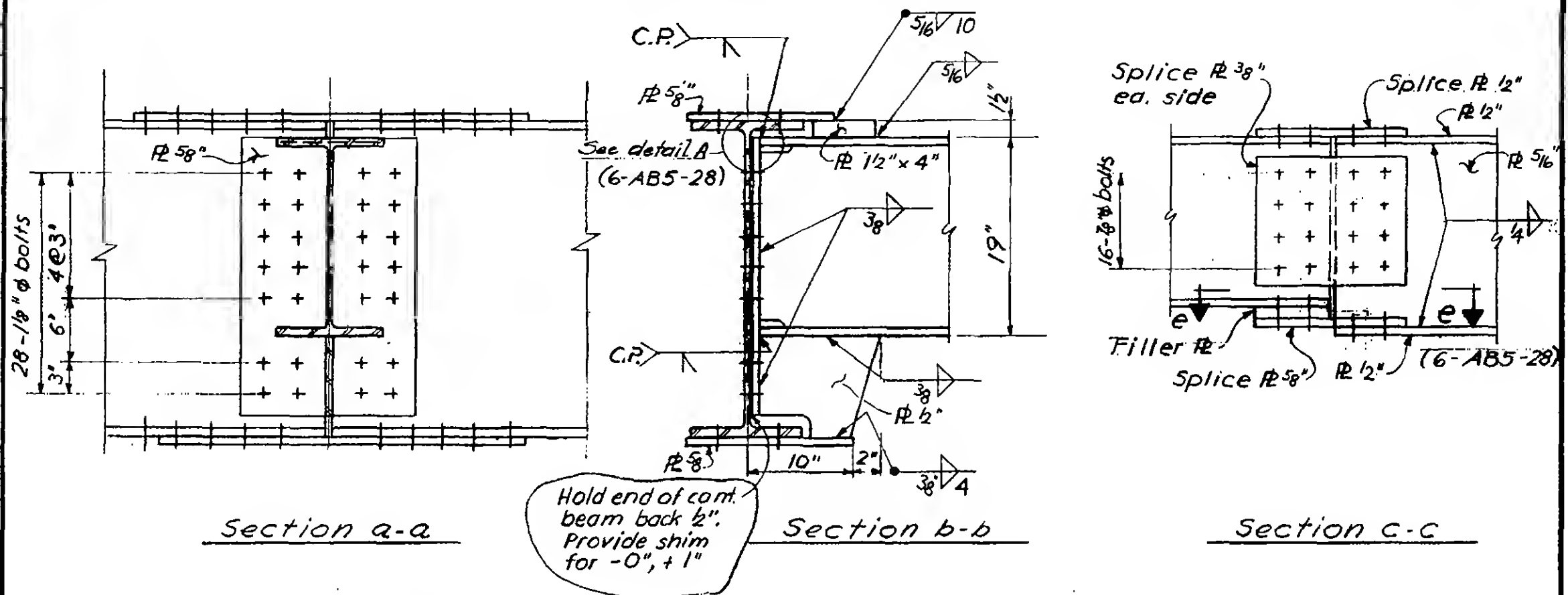


REVISIONS

9-29-67

10-31-67

12-14-67



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PROJECT THE WORLD TRADE CENTER

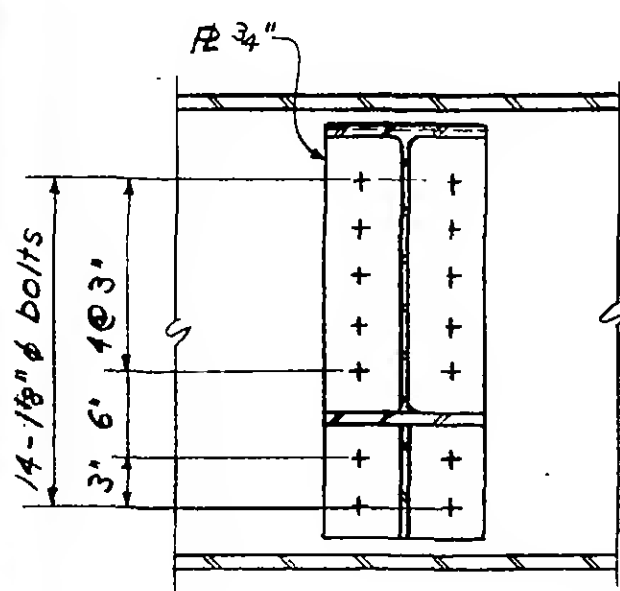
TITLE CONNECTION DETAIL 832 A, B

DATE 7-14-67

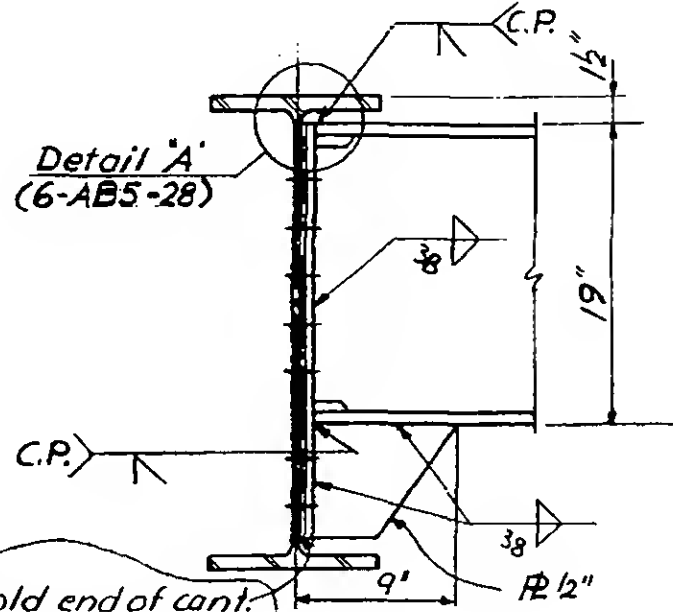
REVISIONS

9-29-67

12-14-67

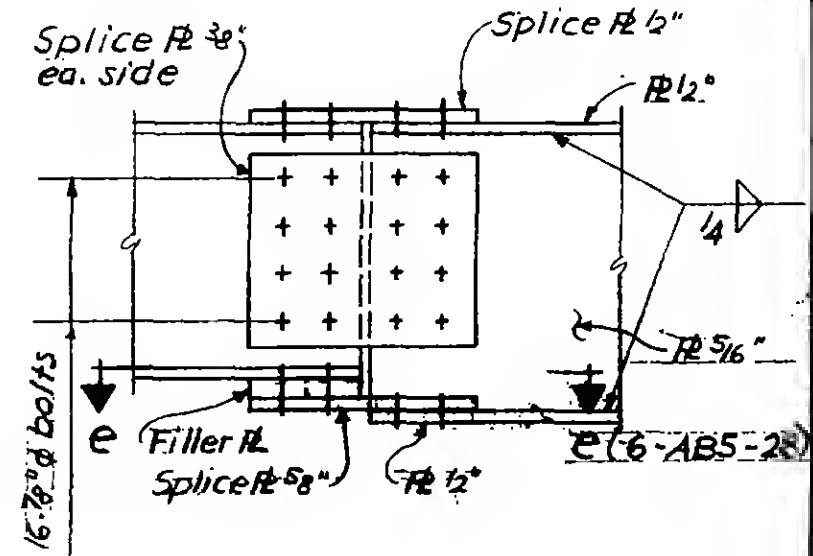


Section a-a

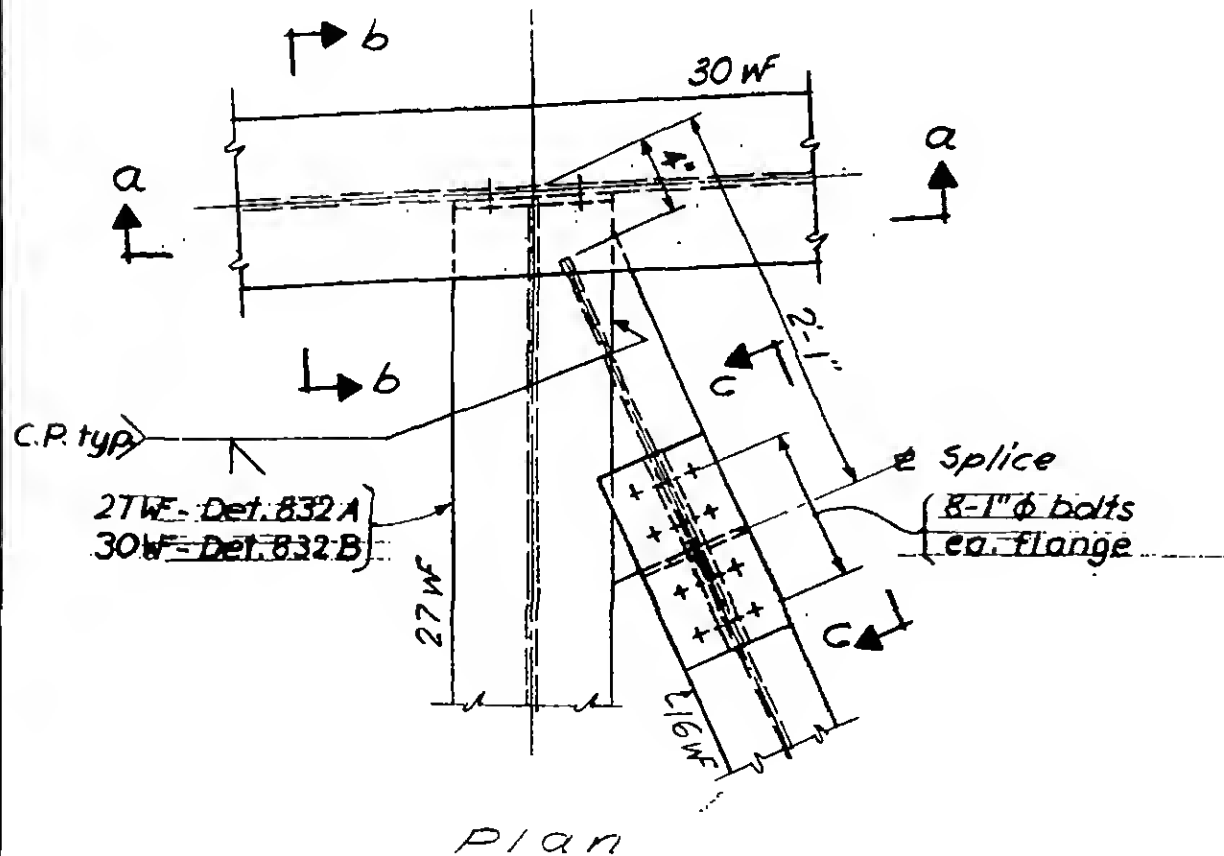


Section b-b

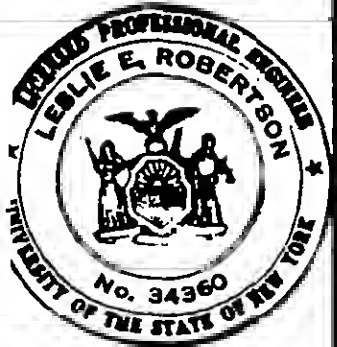
Hold end of cant. beam back 1/2". Provide shim for -0", +1".



Section c-c



Plan



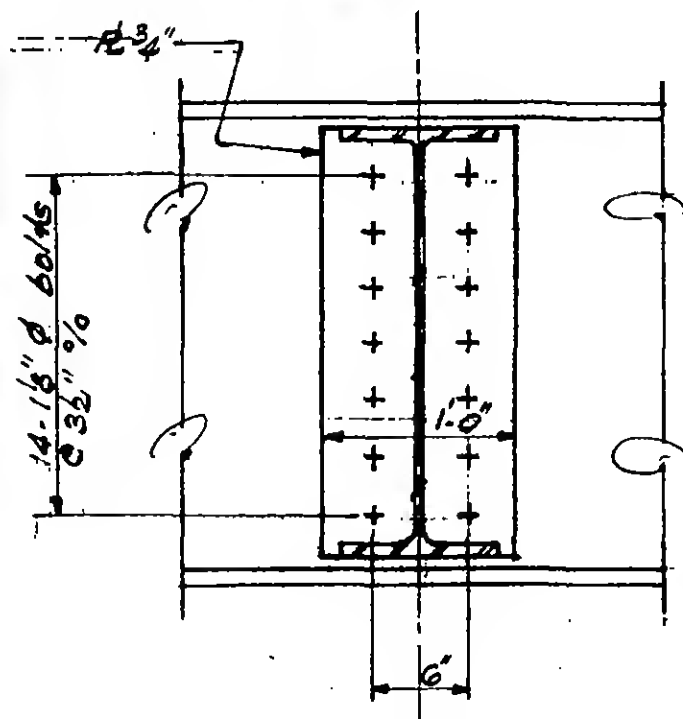
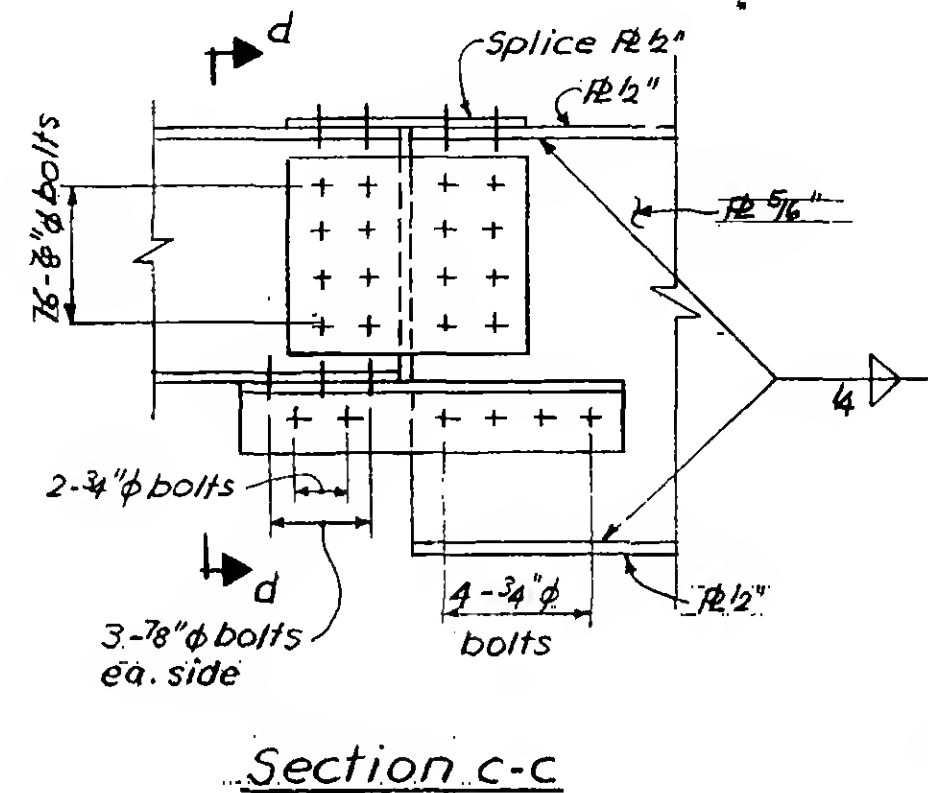
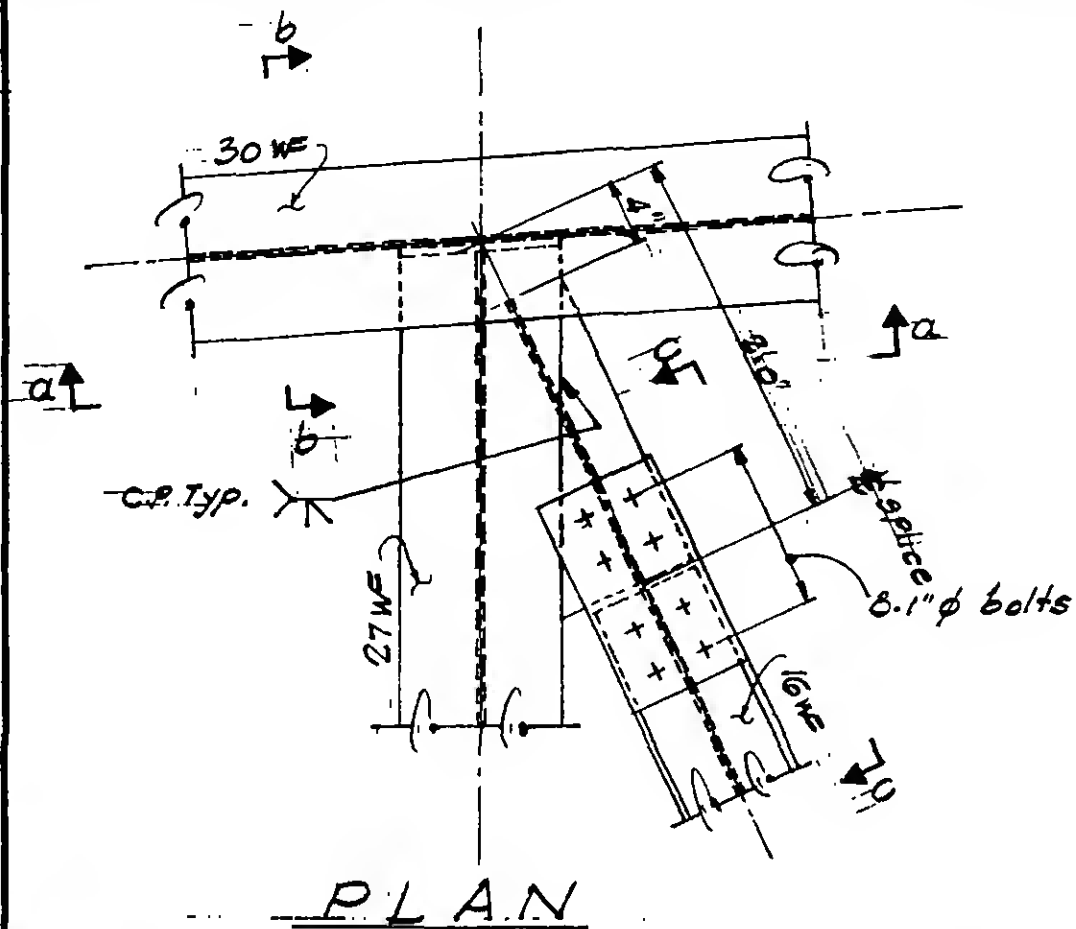
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 832C

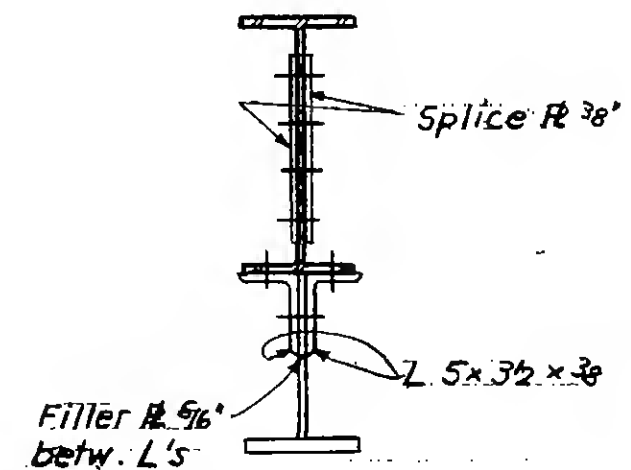
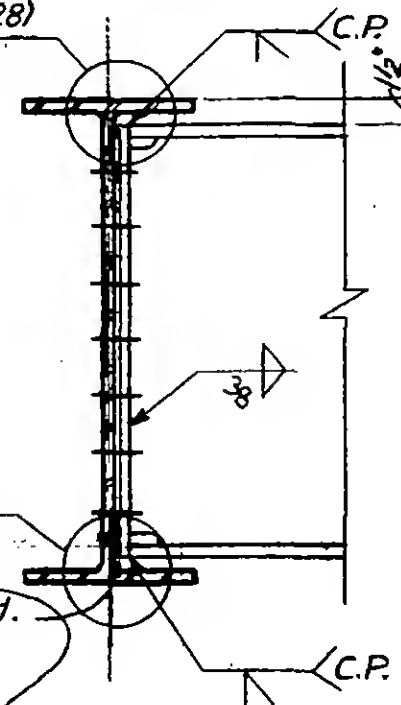
DATE 9-29-67

REVISIONS

12-14-67

Detail A
(6-AB5-28)Detail A
(6-AB5-28)

Hold end of cont.
beam back 1/2".
Provide shim
for -0", +1".



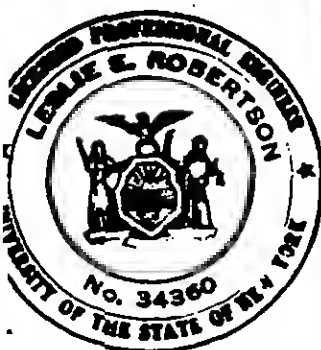
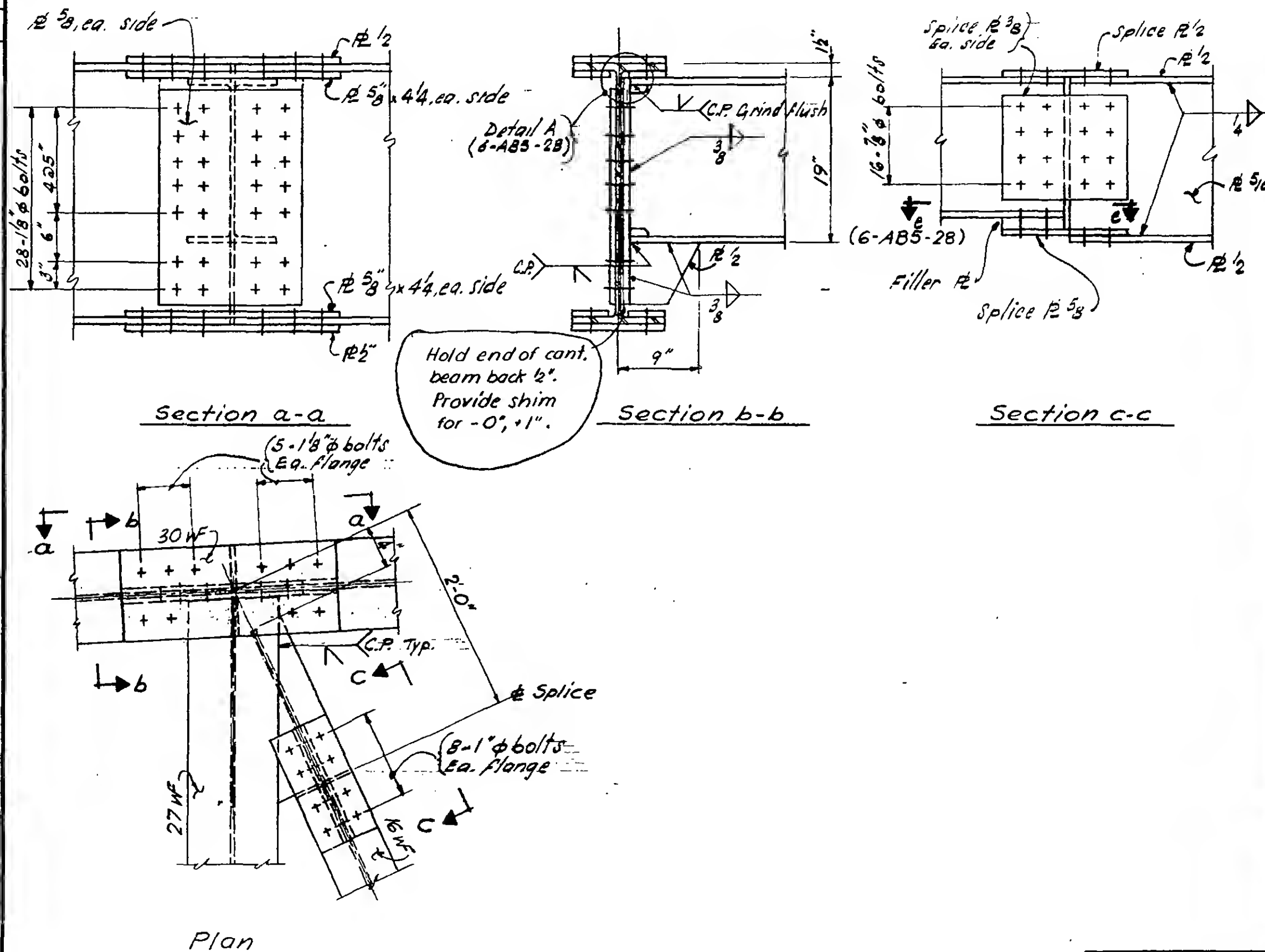
6-AB5-30.1



REVISIONS

9-29-67

12-14-67

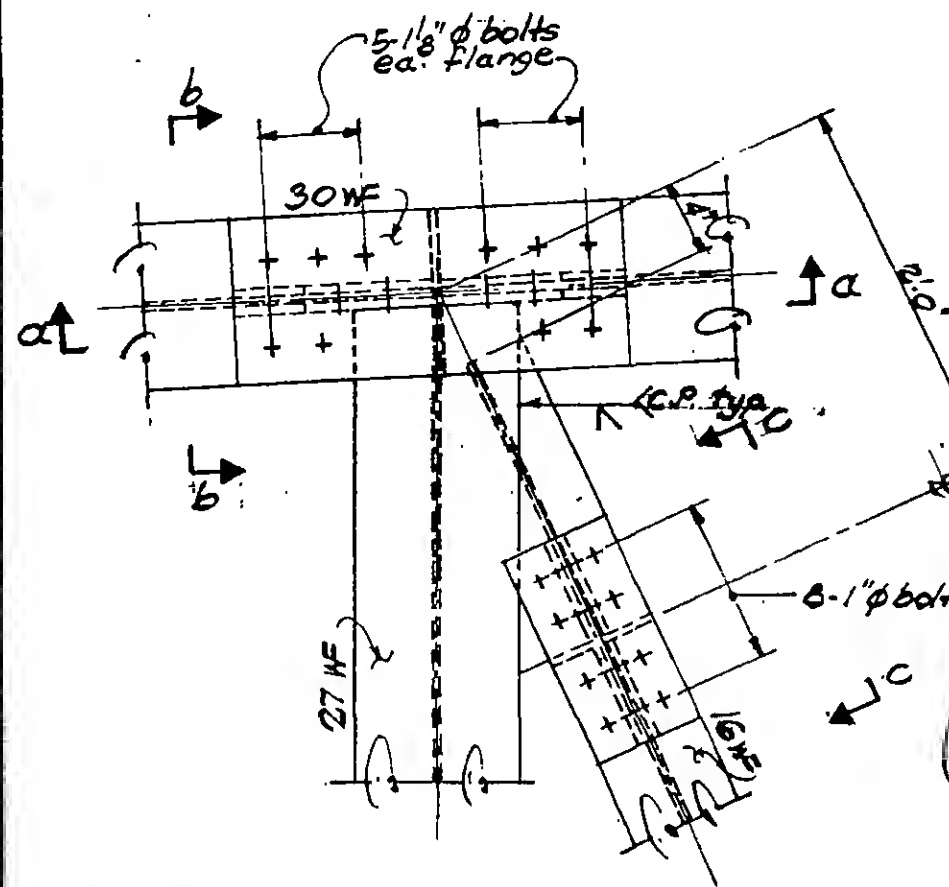


6-AB5-31

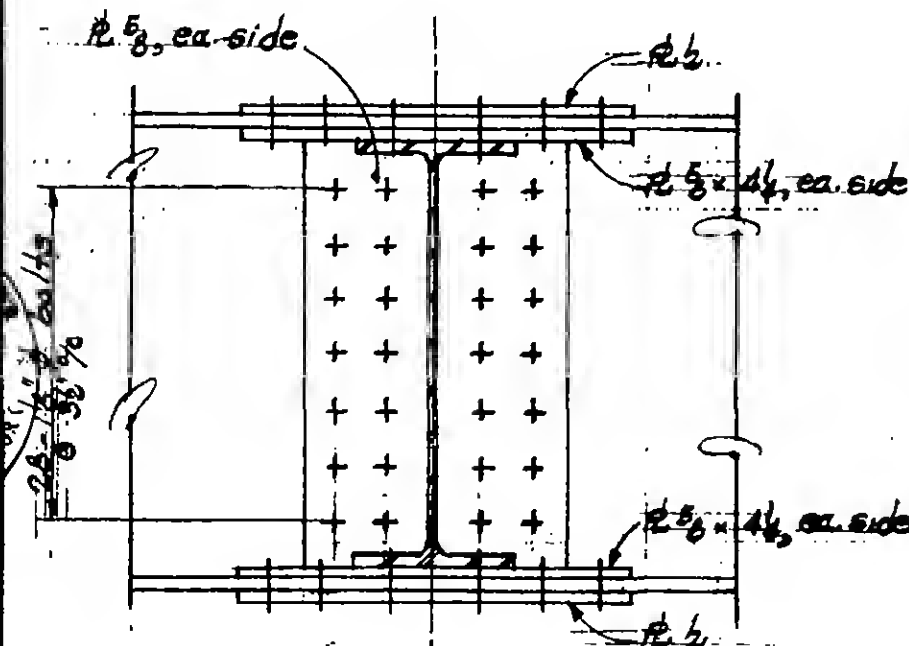
REVISIONS

10-31-67

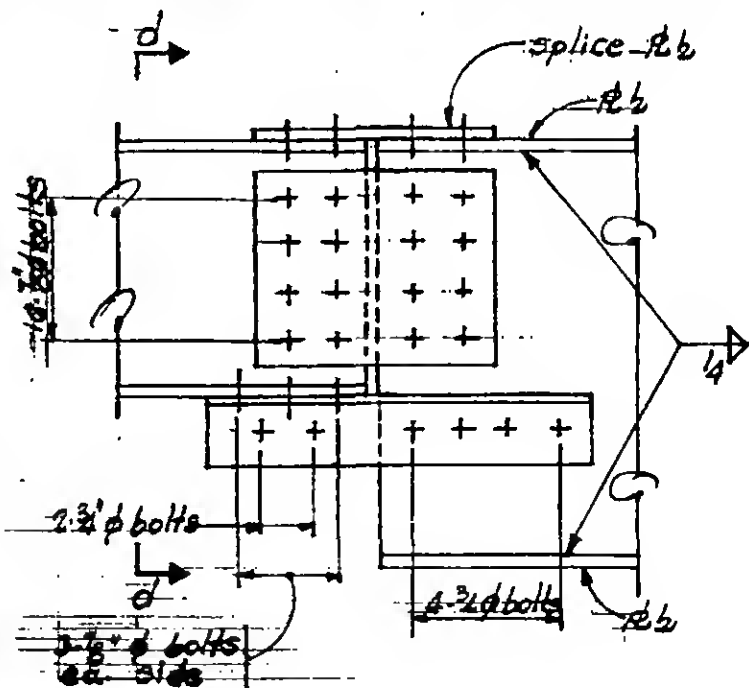
12-14-67



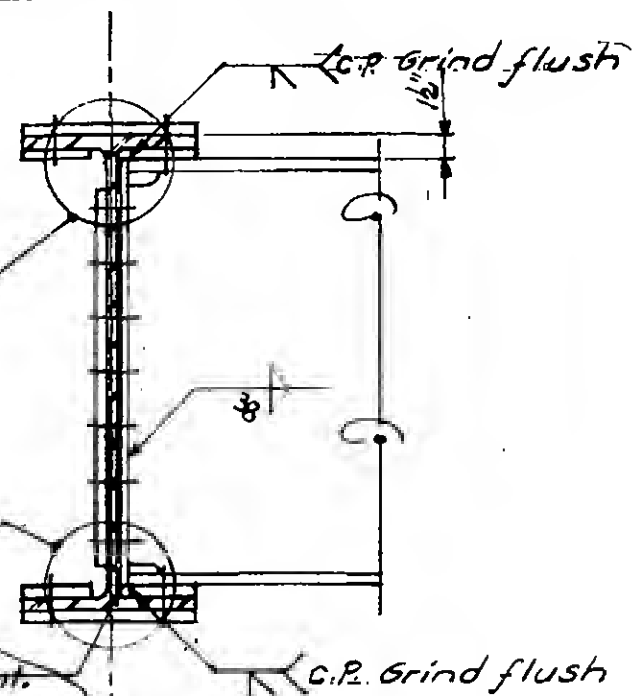
PLAN



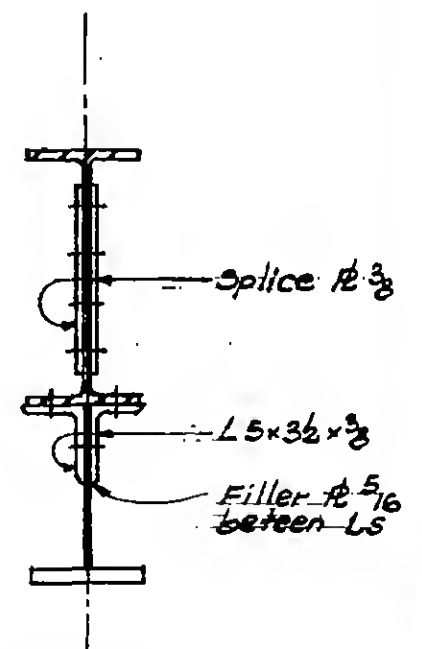
Section a-a



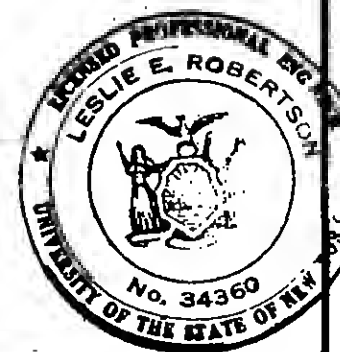
Section c-c



Section b-b



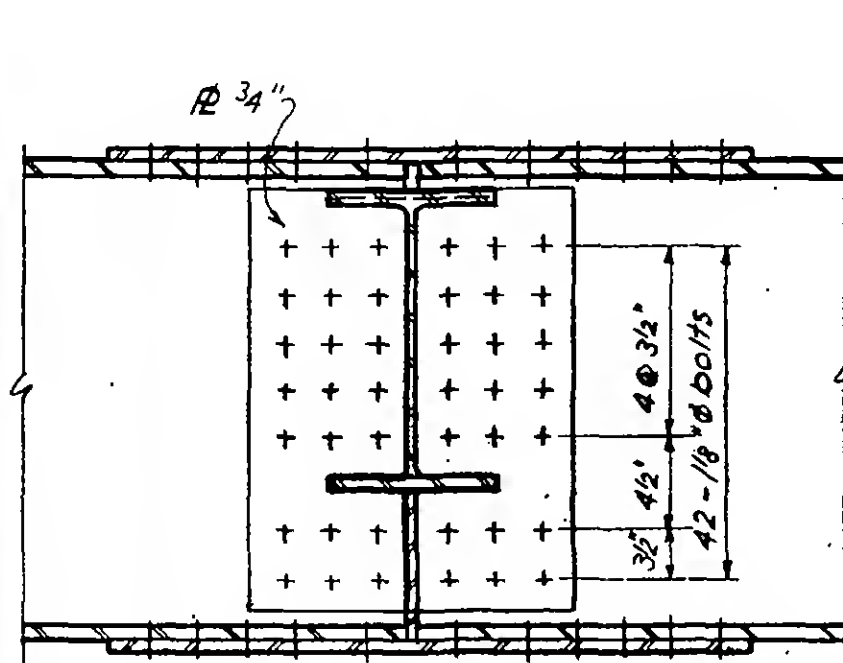
Section d-d



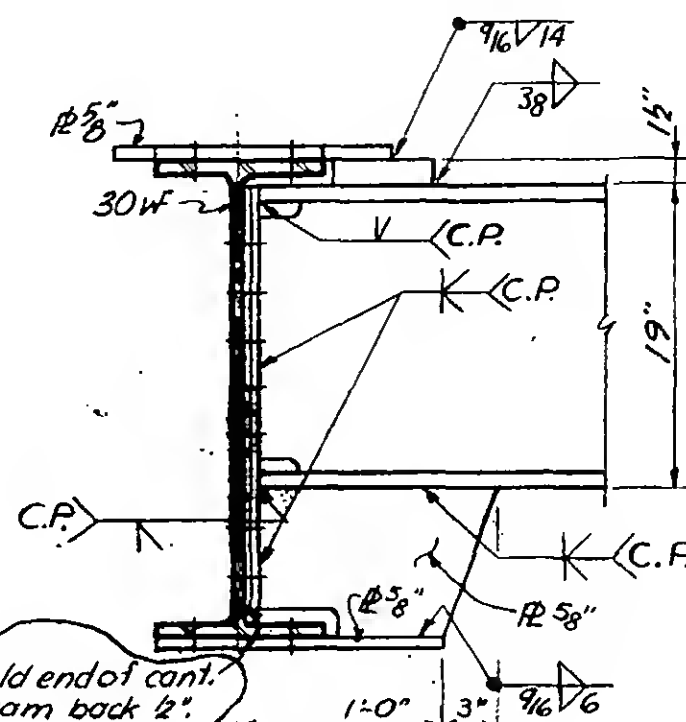
REVISIONS

9-29-67

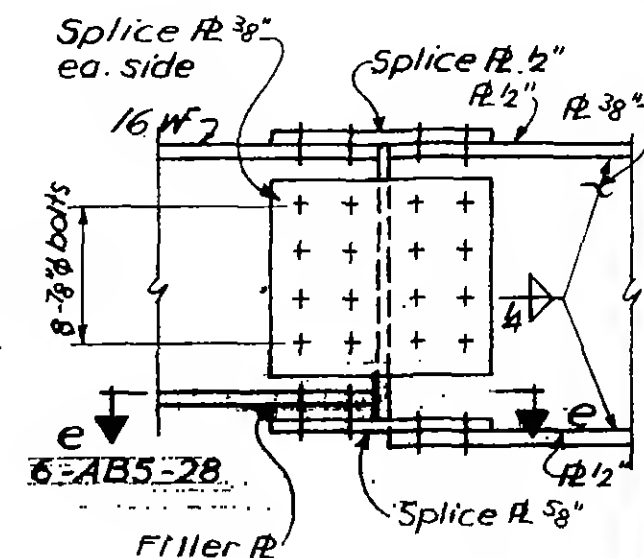
12-14-67



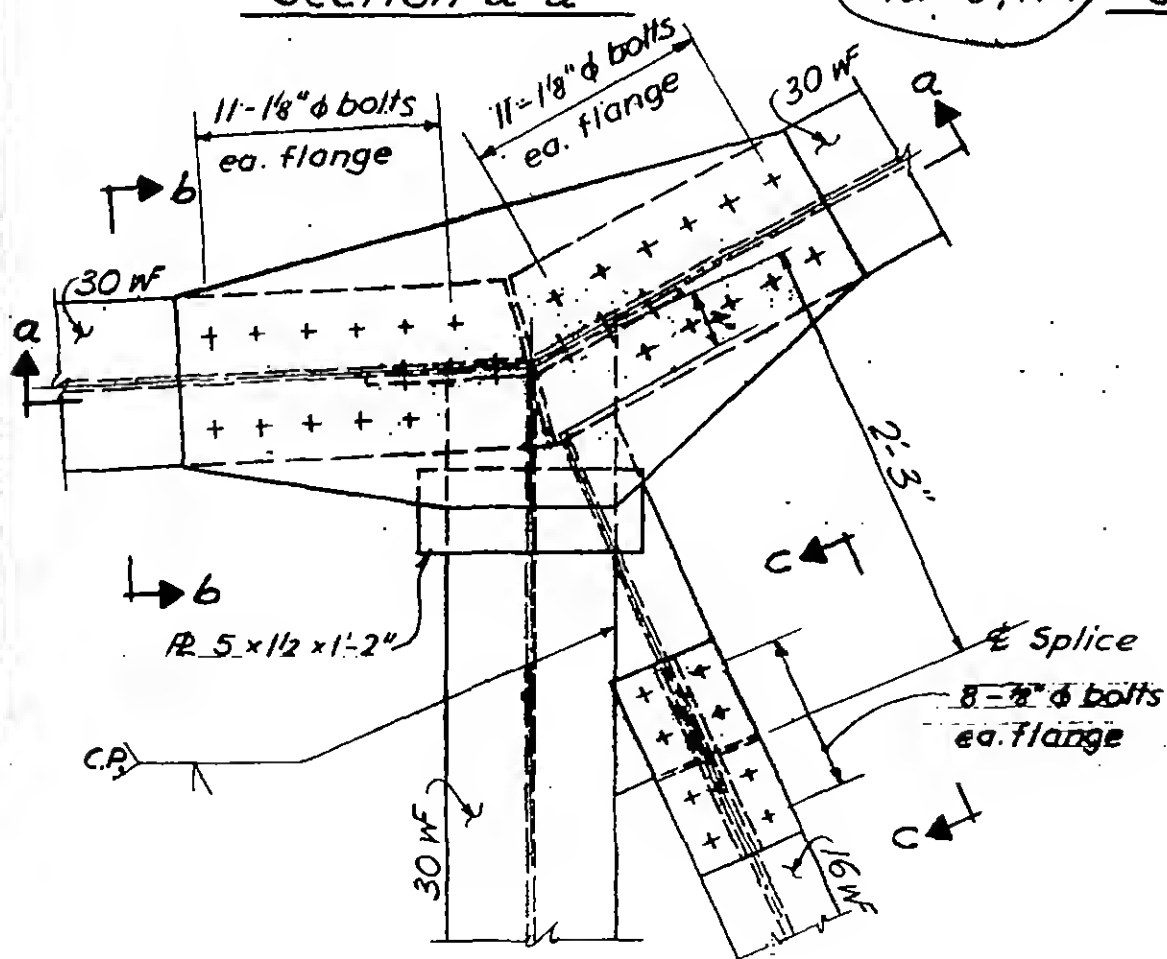
Section a-a



Section b-b



Section c-c

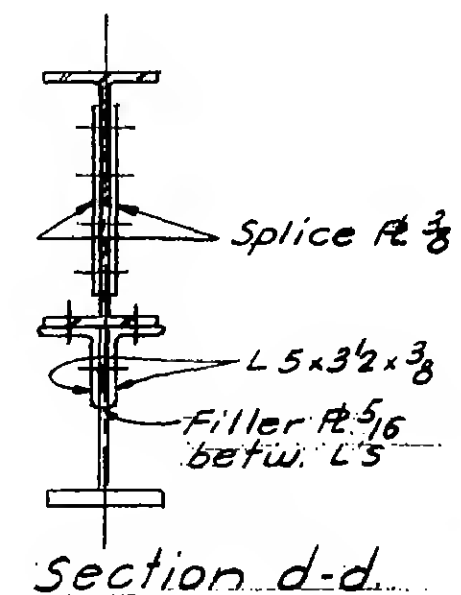
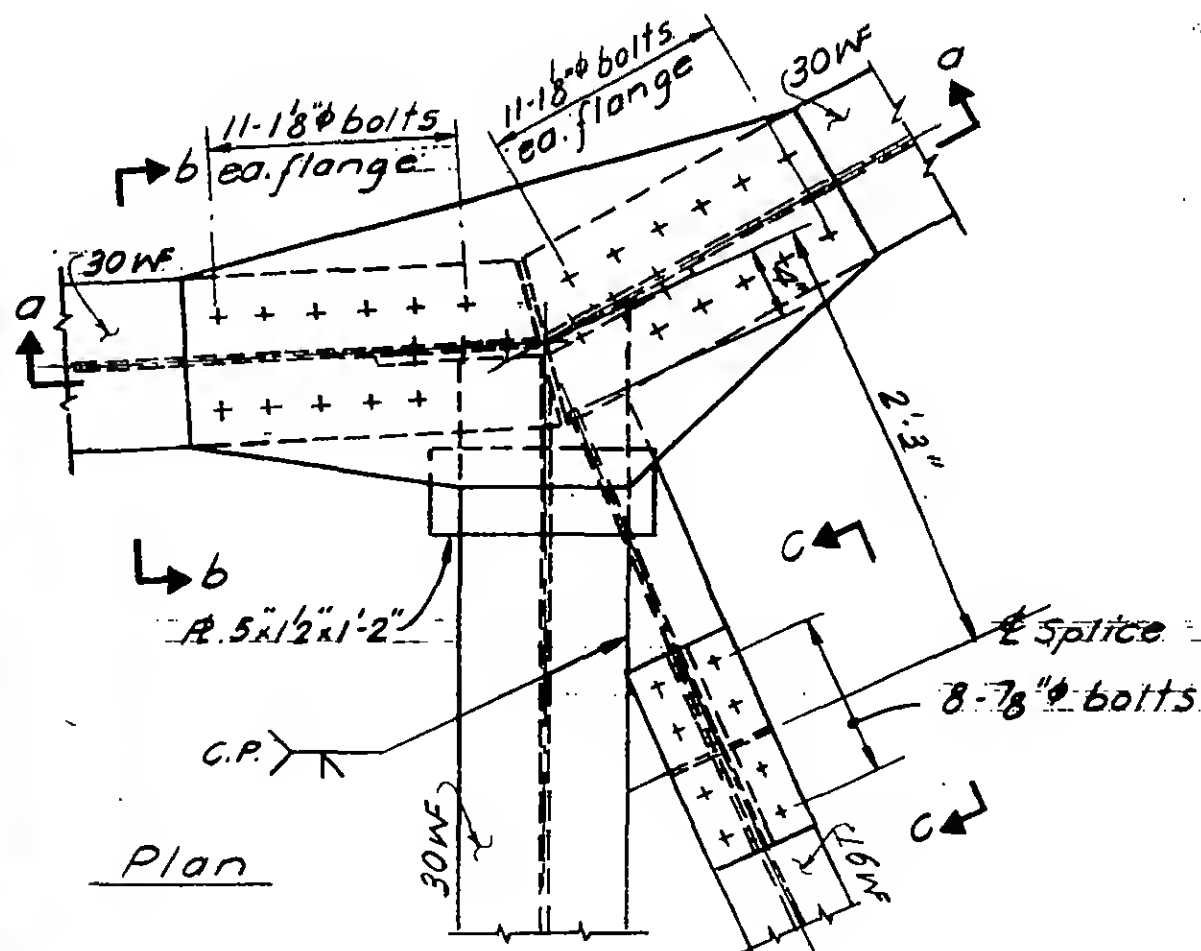
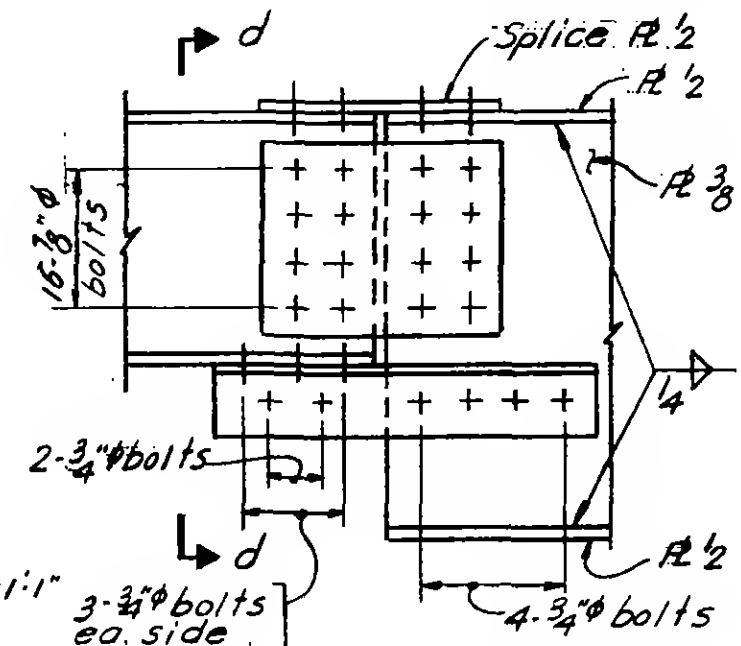
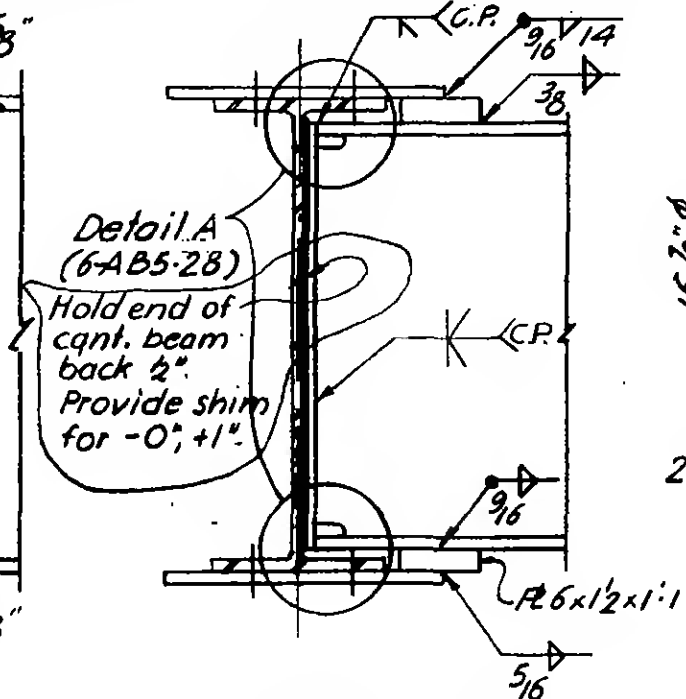
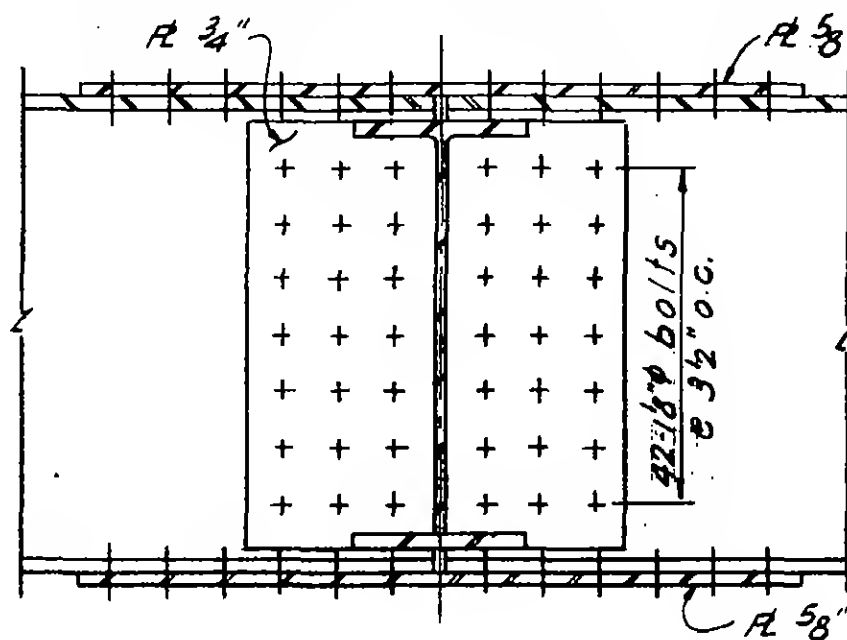


Plan



REVISIONS

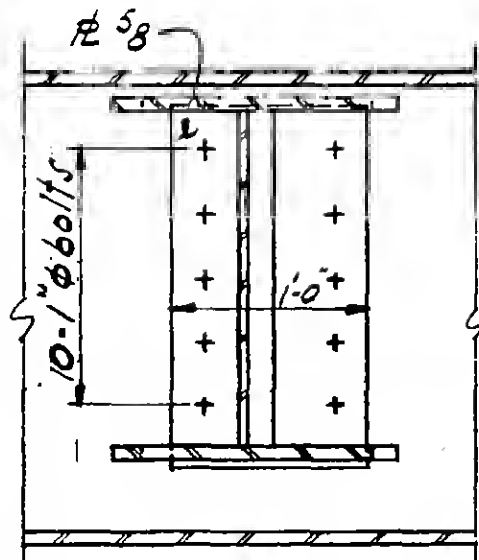
12-14-67



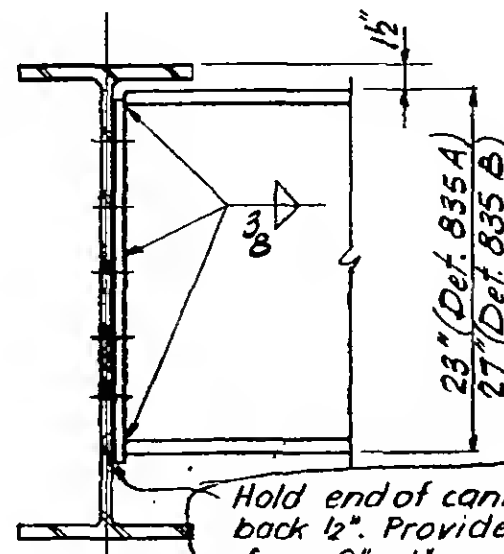
REVISIONS

9-29-67

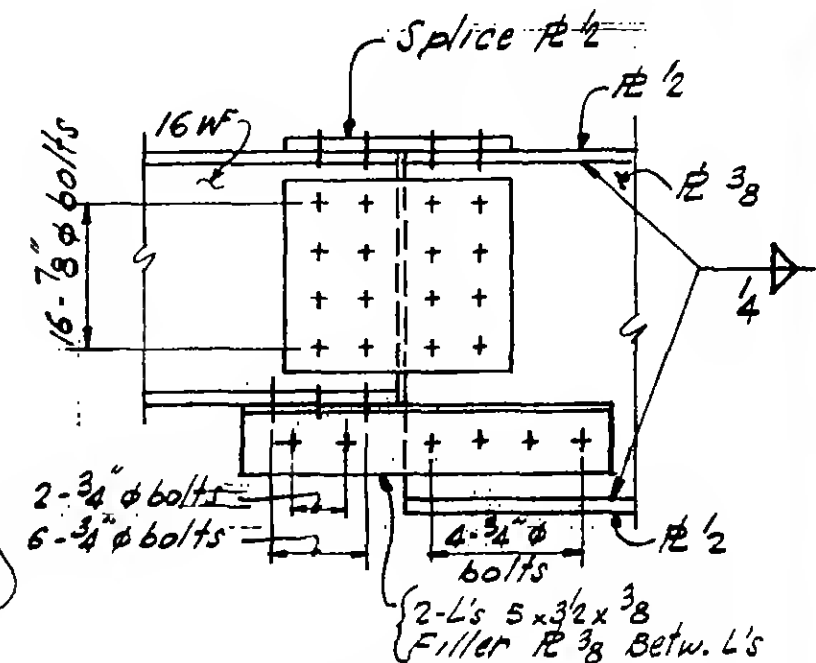
12-14-67



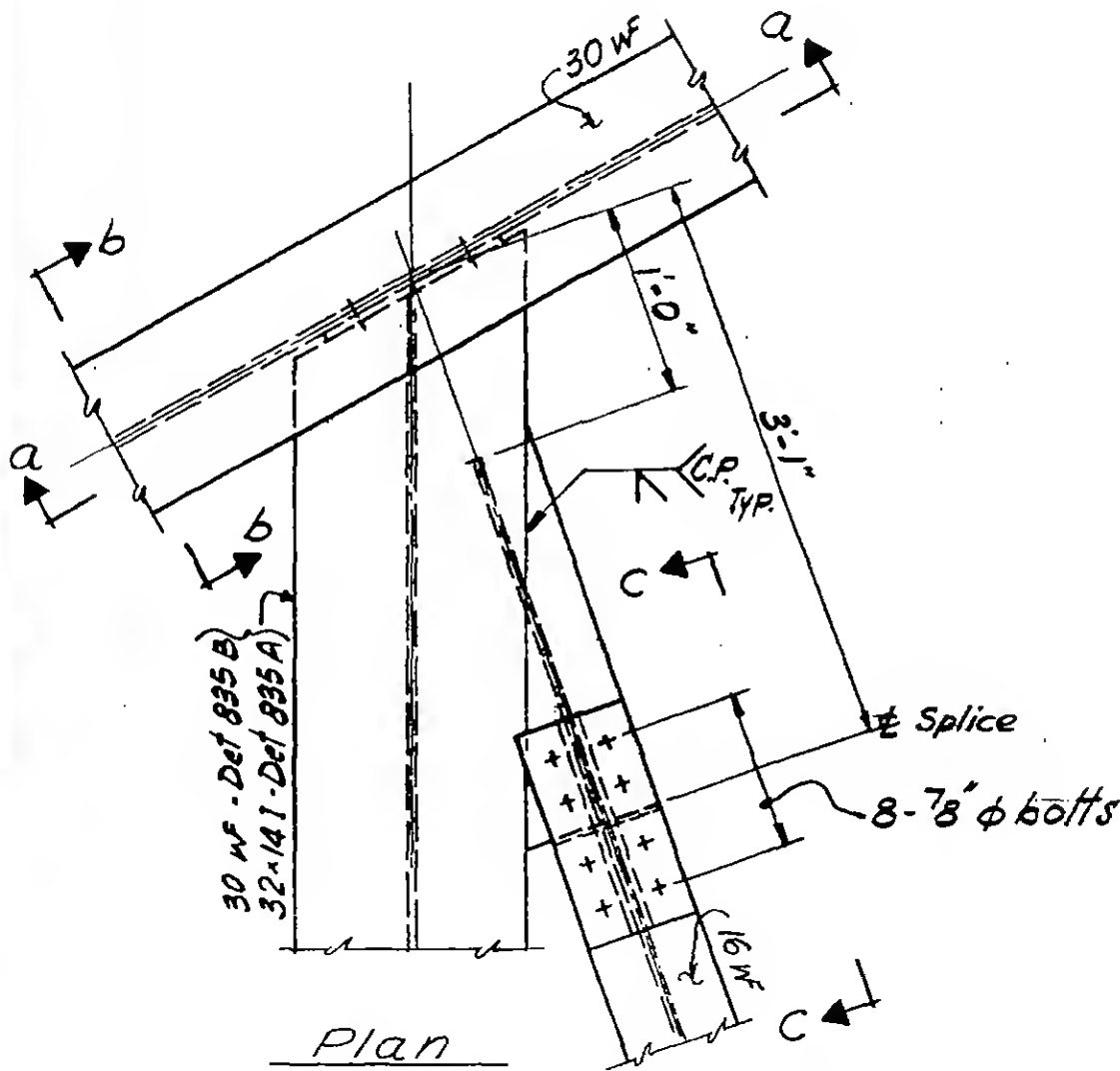
Section a-a



Section b-b



Section c-c



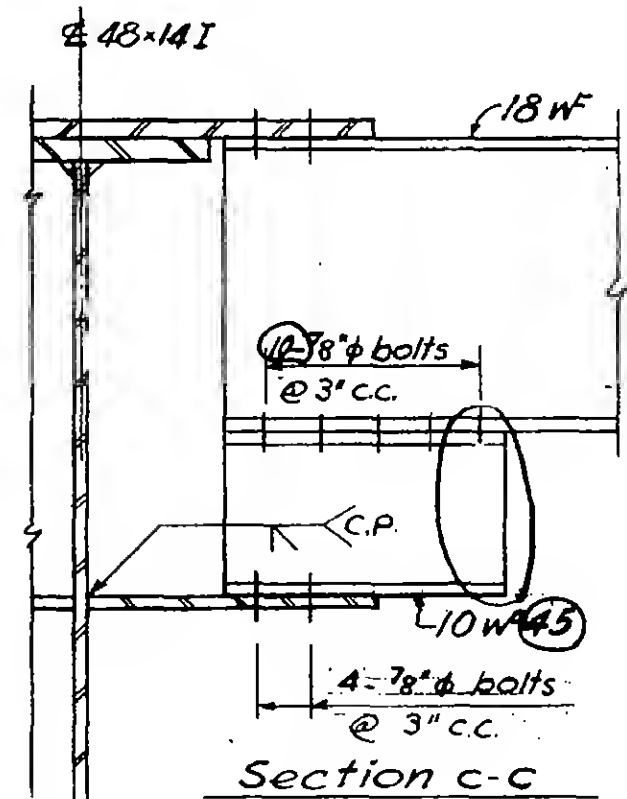
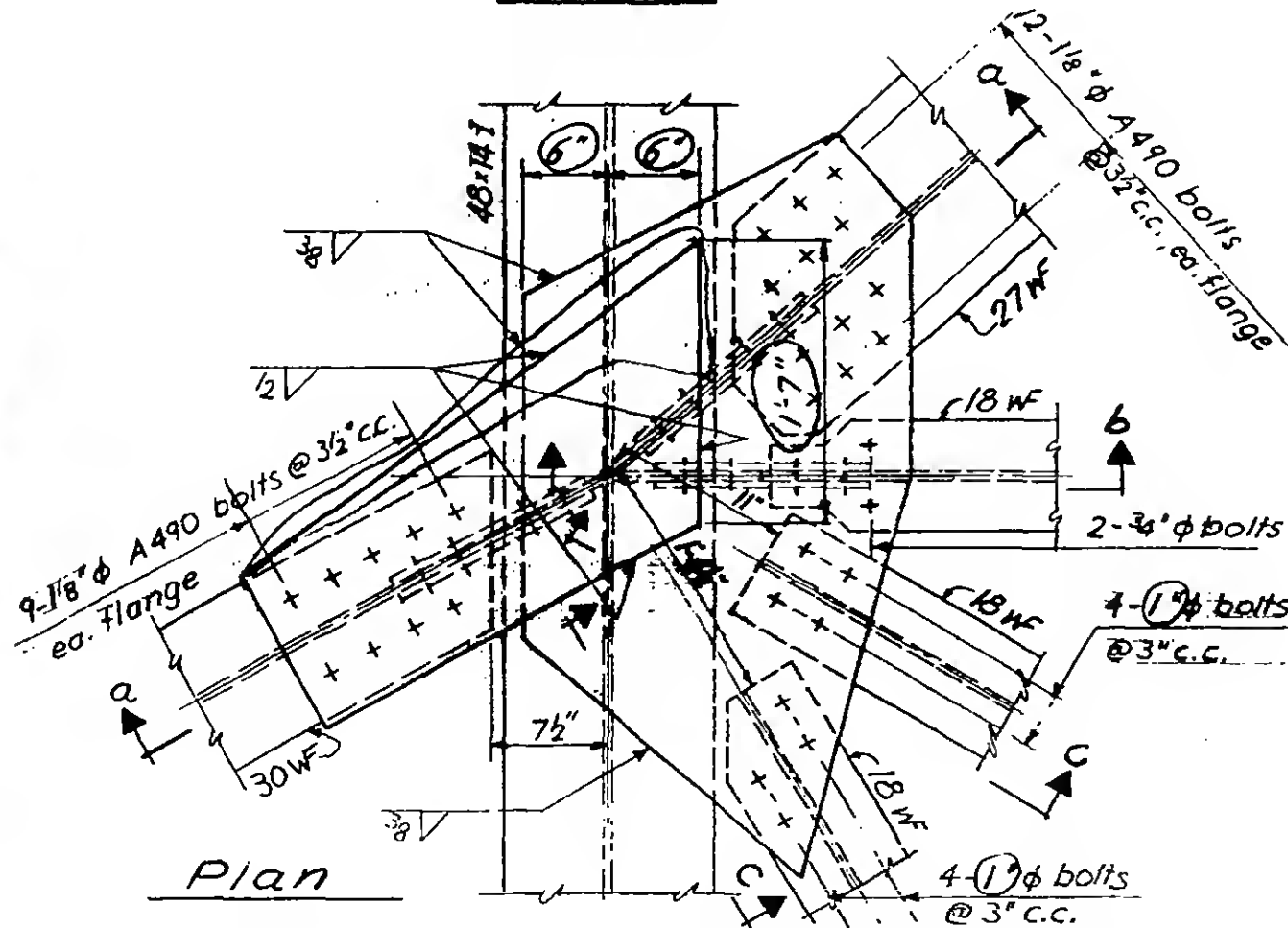
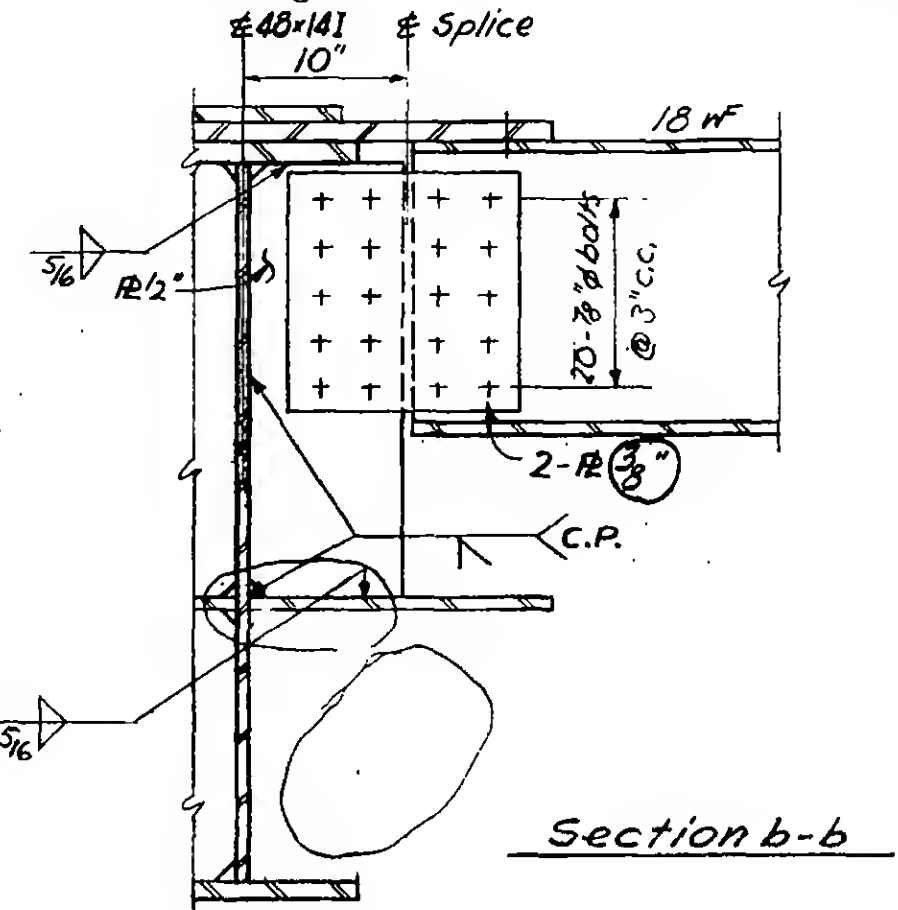
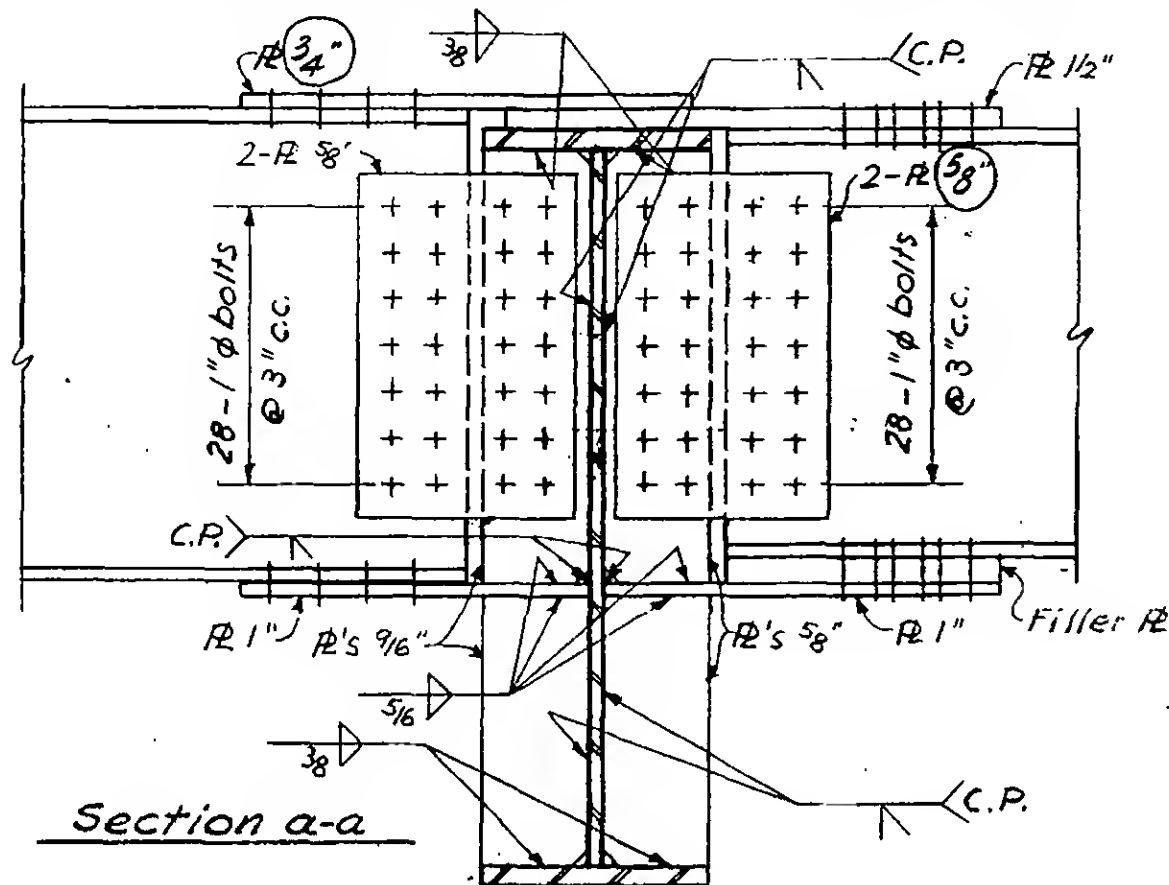
Plan



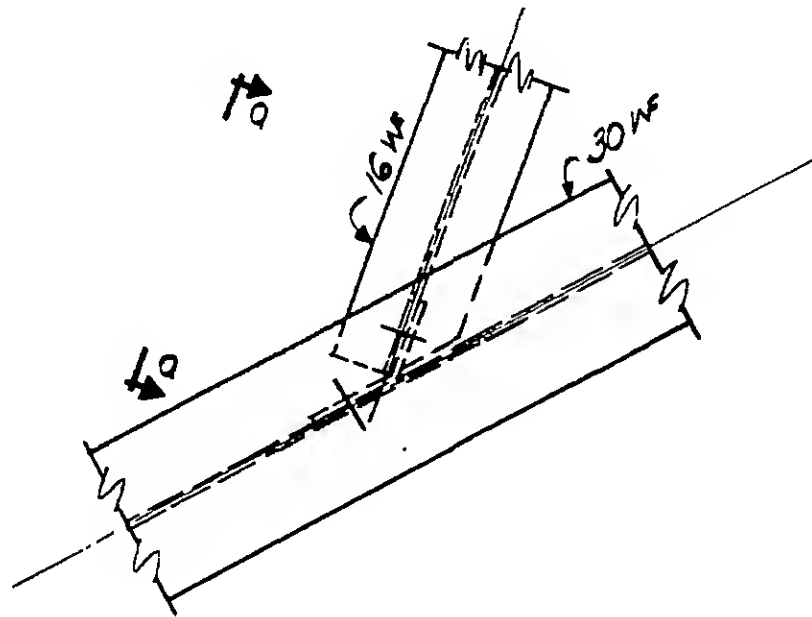
REVISIONS

9-29-67

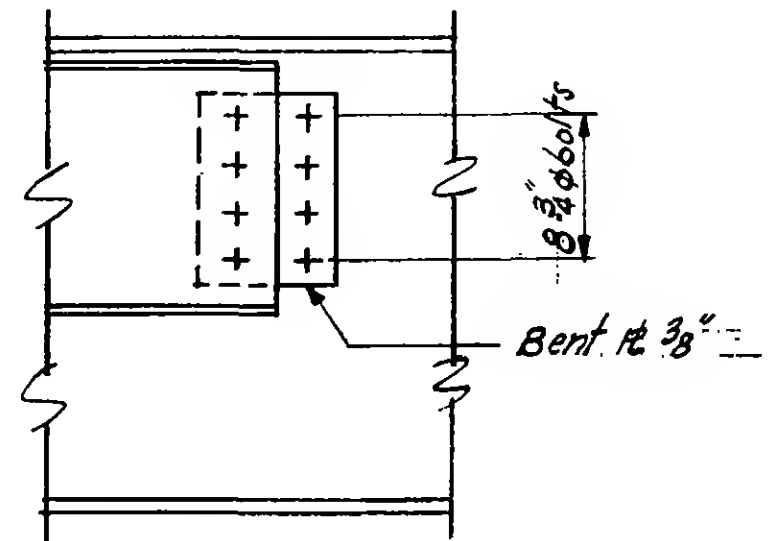
10-31-67



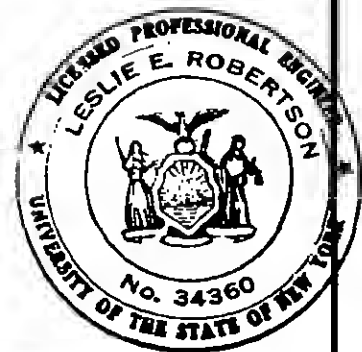
REVISIONS



PLAN



Section a-a



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

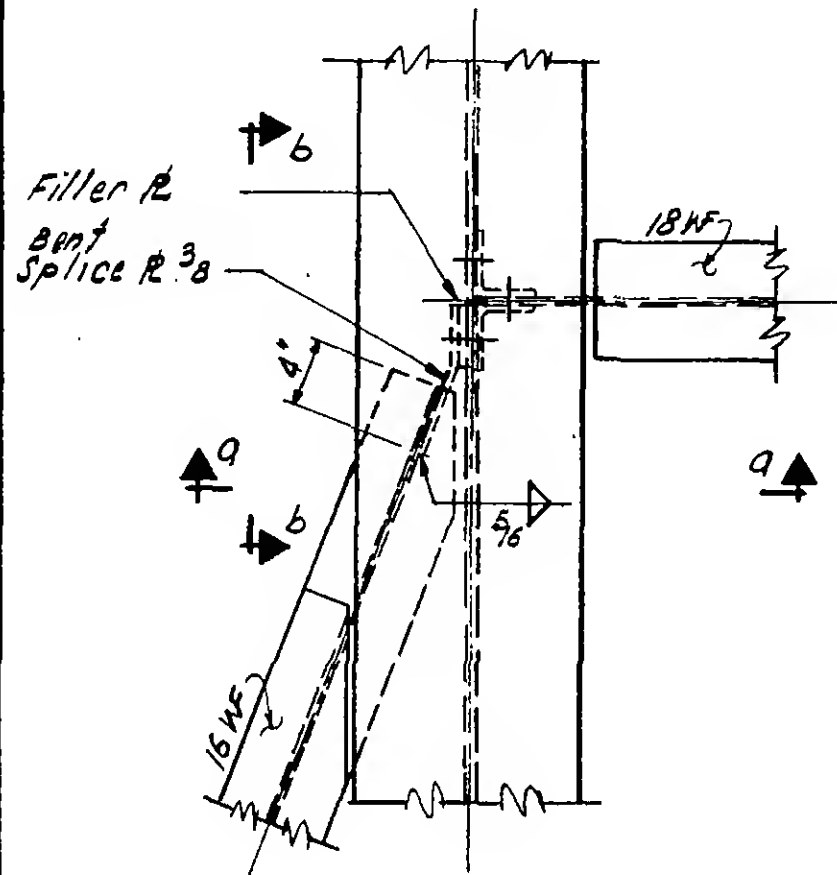
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

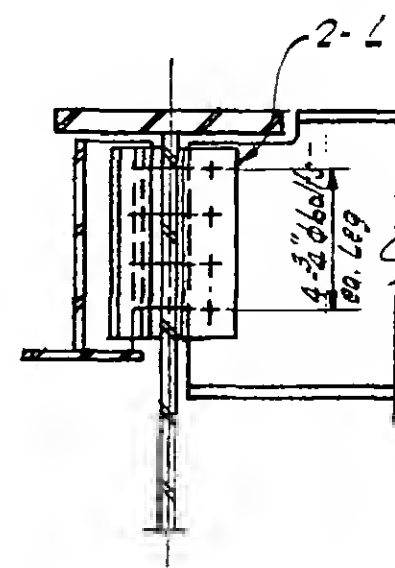
TITLE CONNECTION DETAIL 838 A

DATE 9-29-67

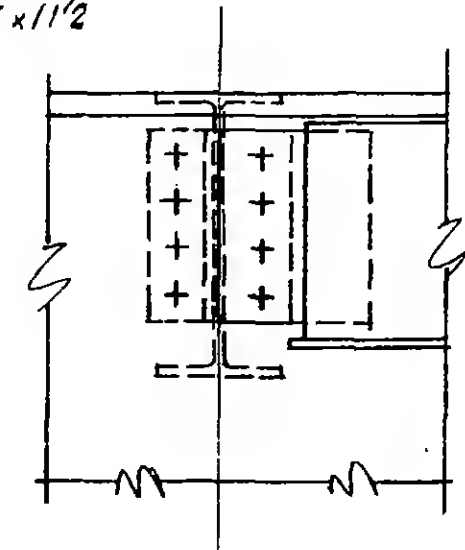
REVISIONS



PLAN



Section a-a



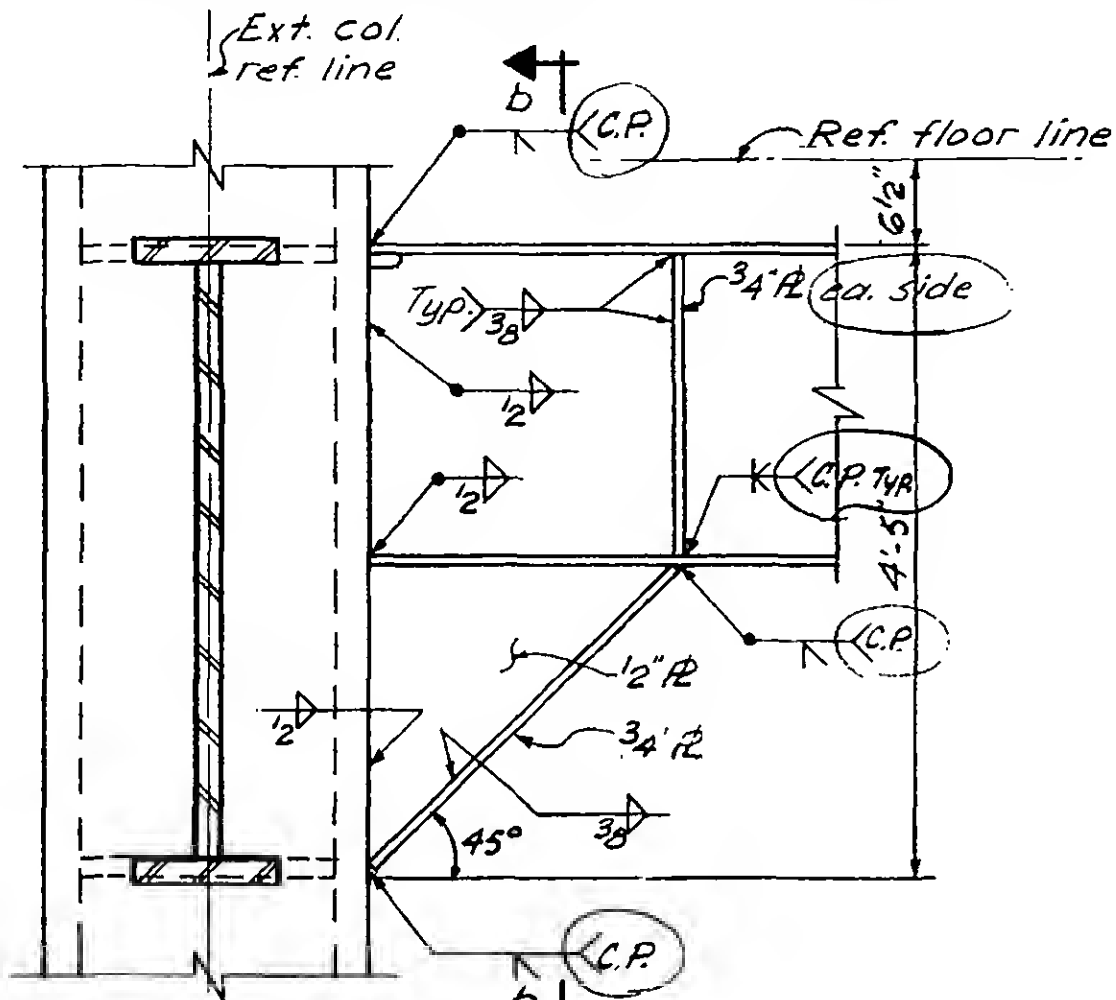
Section b-b



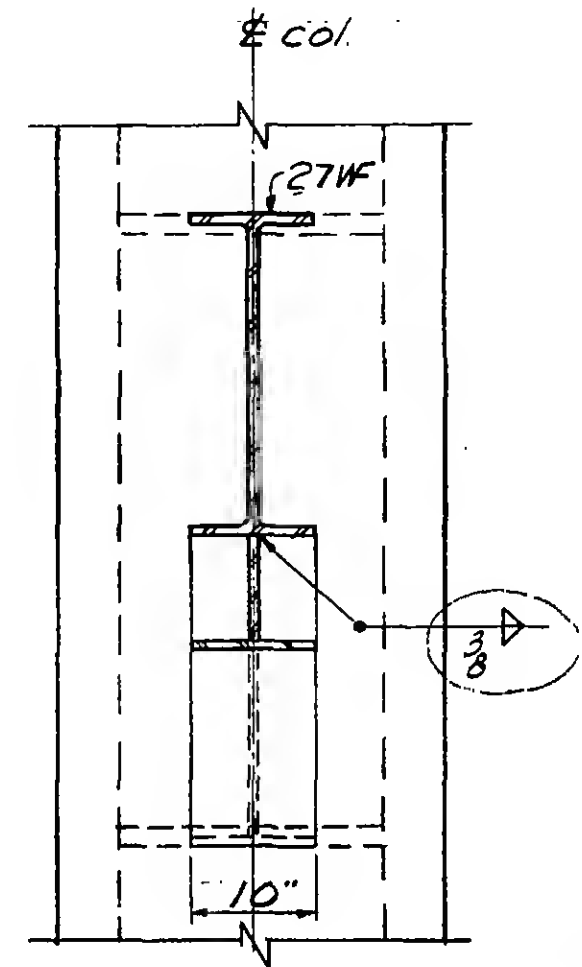
6-AB5-36

REVISIONS

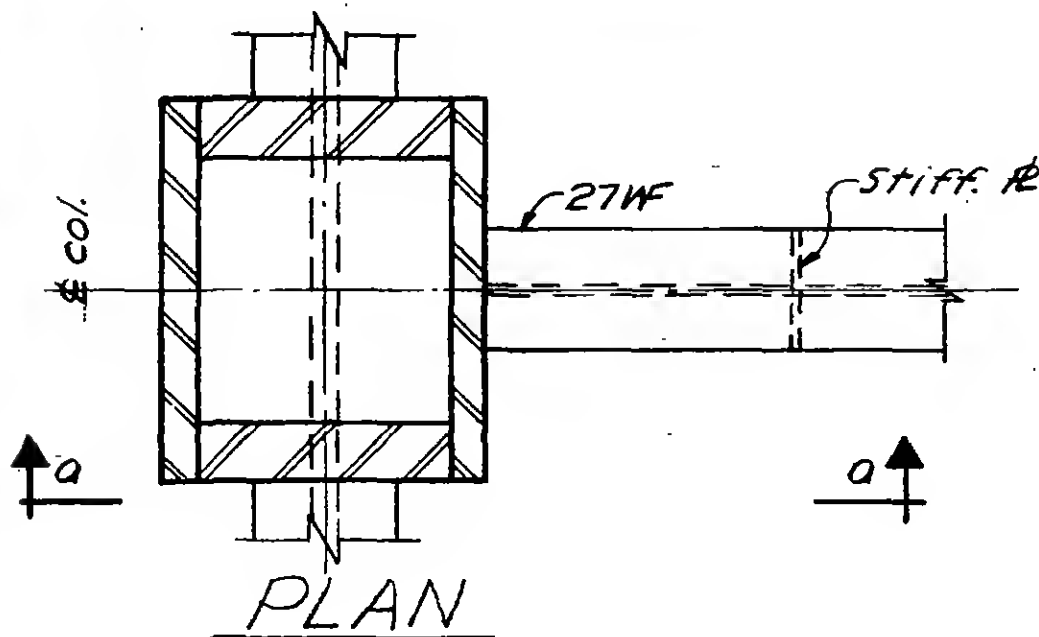
9-15-67



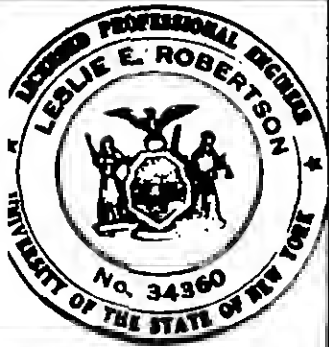
Section a-a



Section b-b



PLAN



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Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER

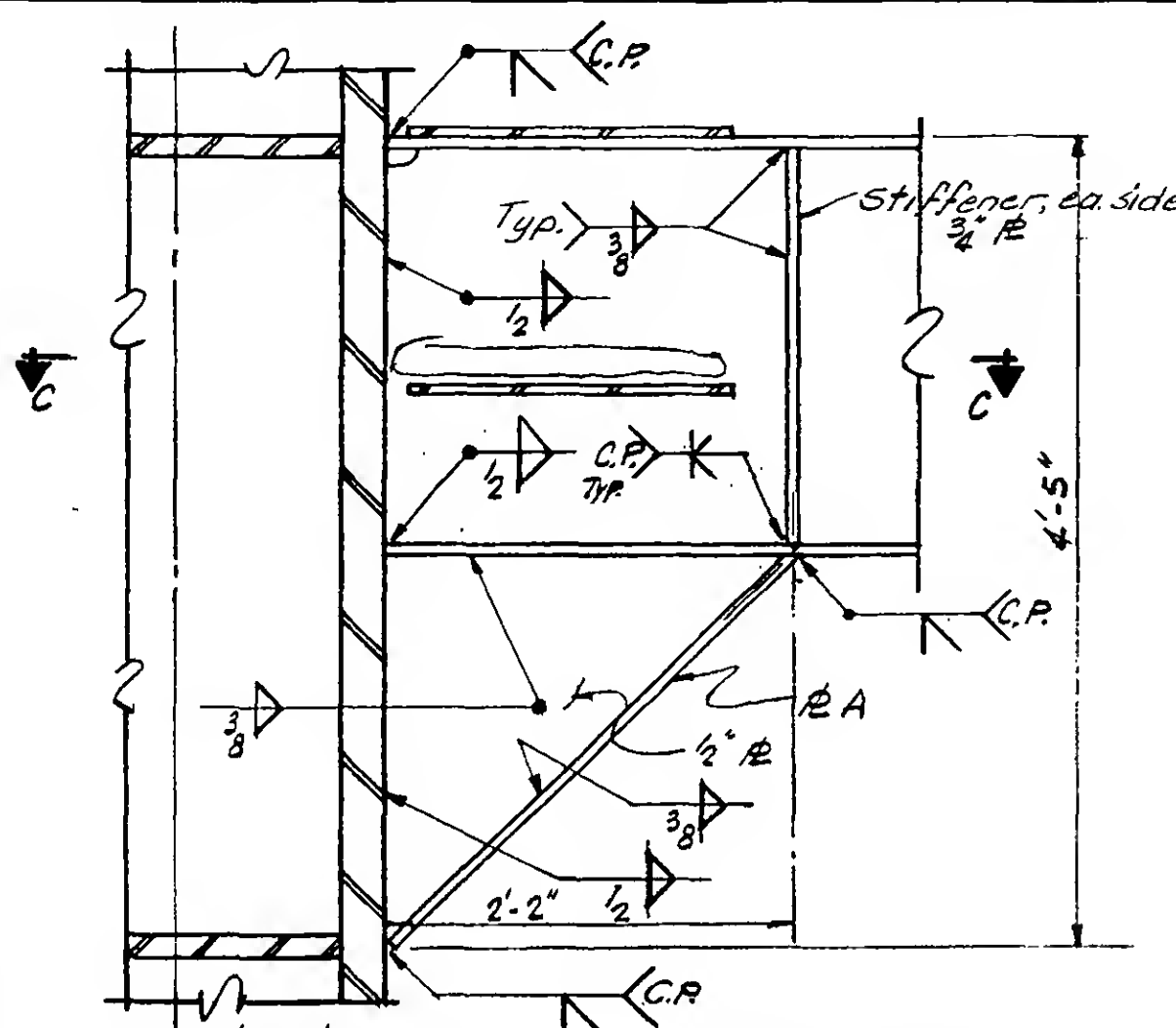
TITLE CONNECTION DETAIL 840 A, B, C, & D

DATE 7-14-67

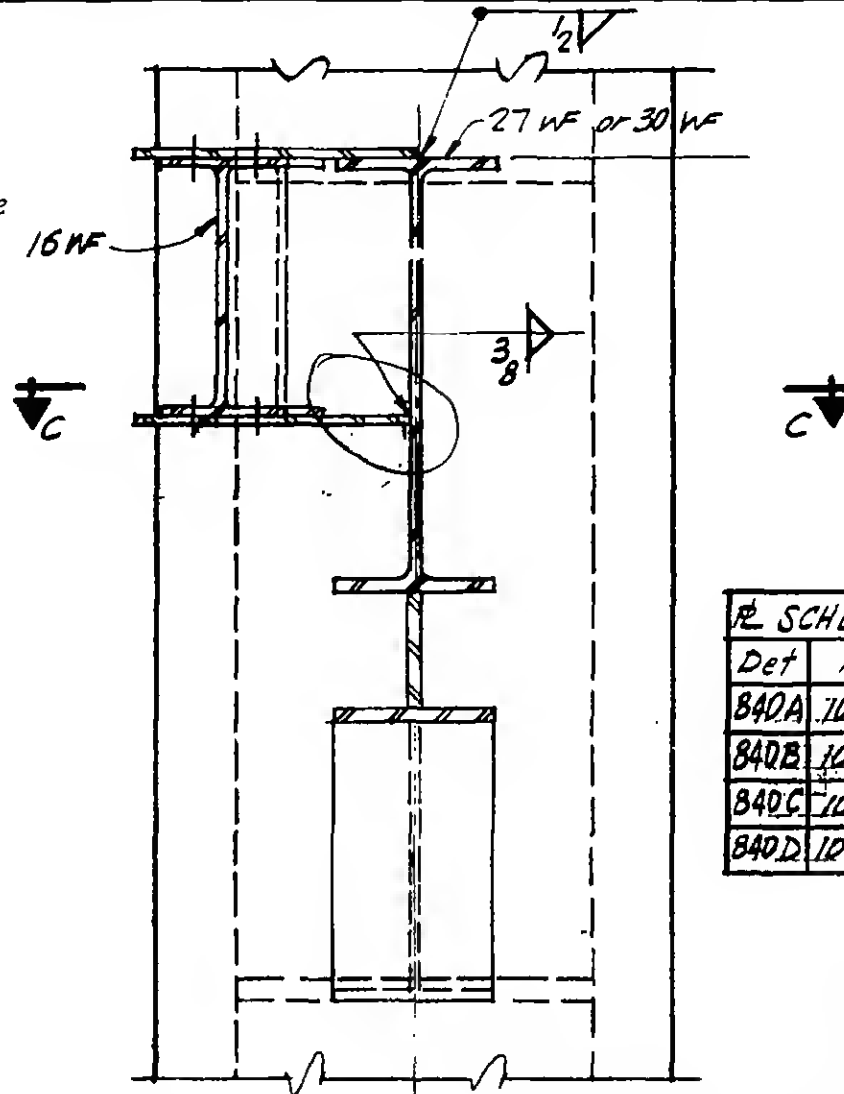
REVISIONS

9-15-67

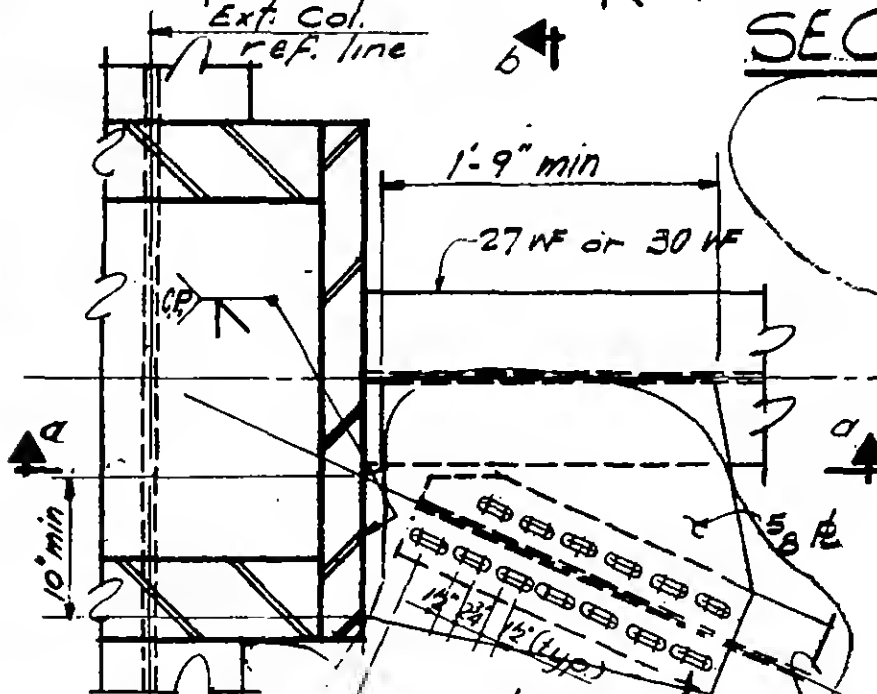
12-14-67



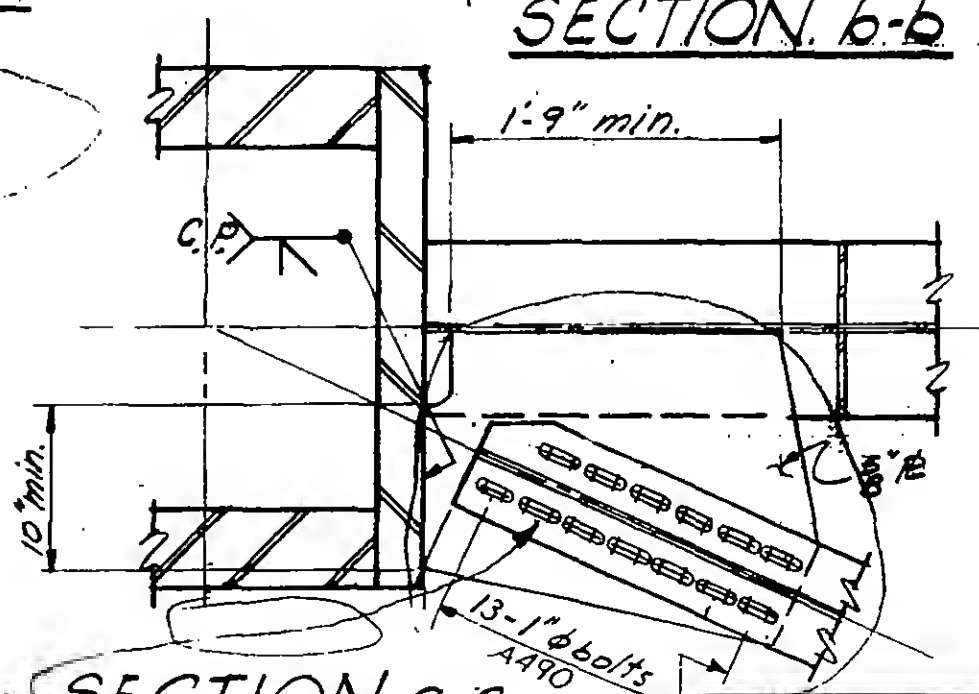
SECTION a-a



SECTION b-b



PLAN



SECTION c-c

R. SCHEDULE	
Det	R. A
840A	10 x 3/4
840B	10 x 7/8
840C	10 1/2 x 7/8
840D	10 1/2 x 7/8

1/2" slots in PL provide 1/2" PL with 1 1/2" holes over slots

6-AB5-38

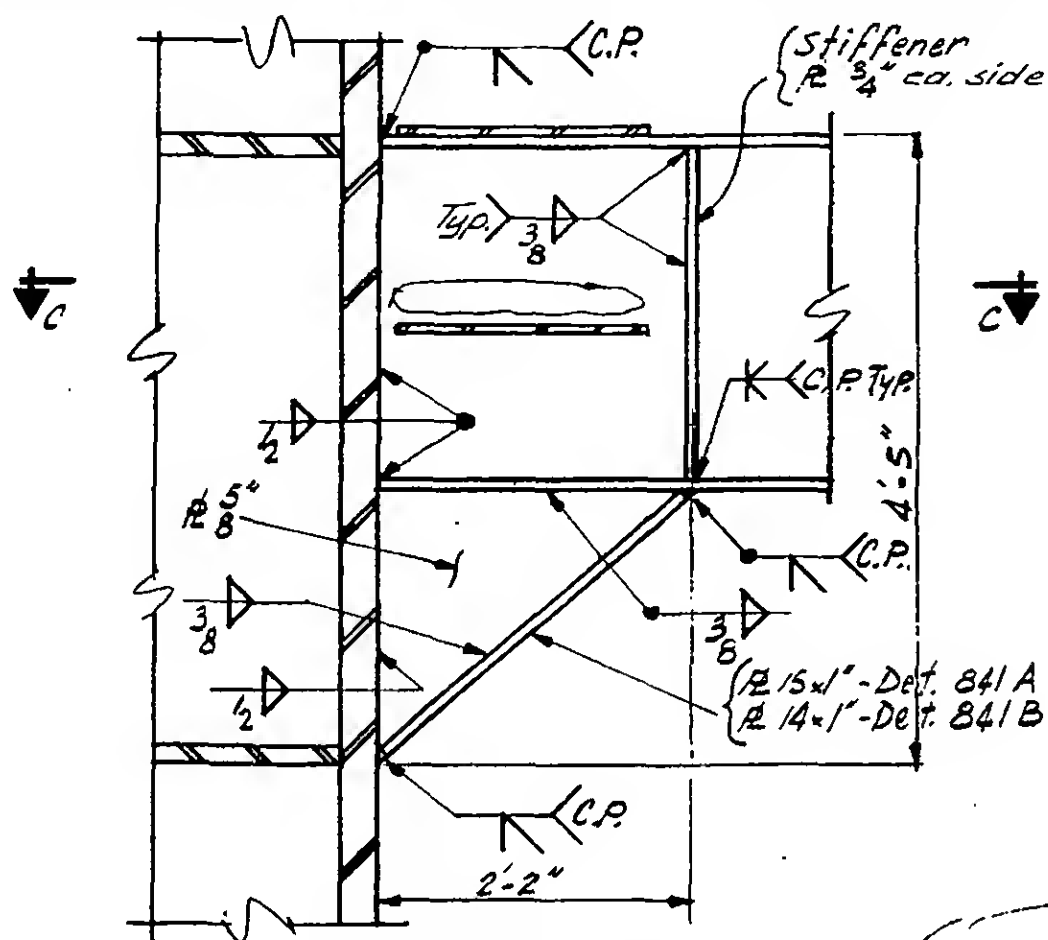
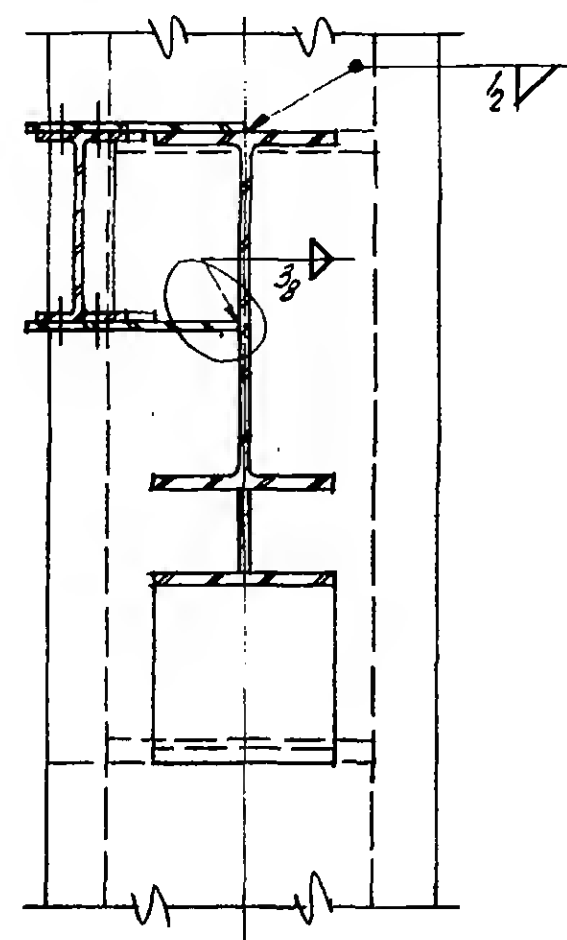
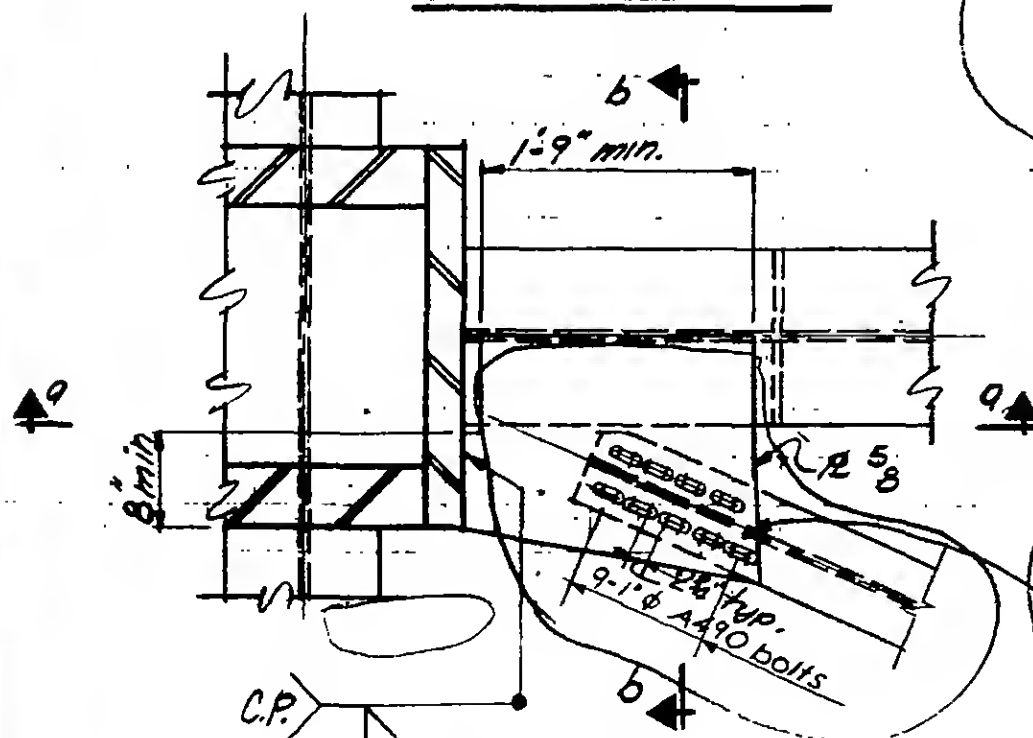
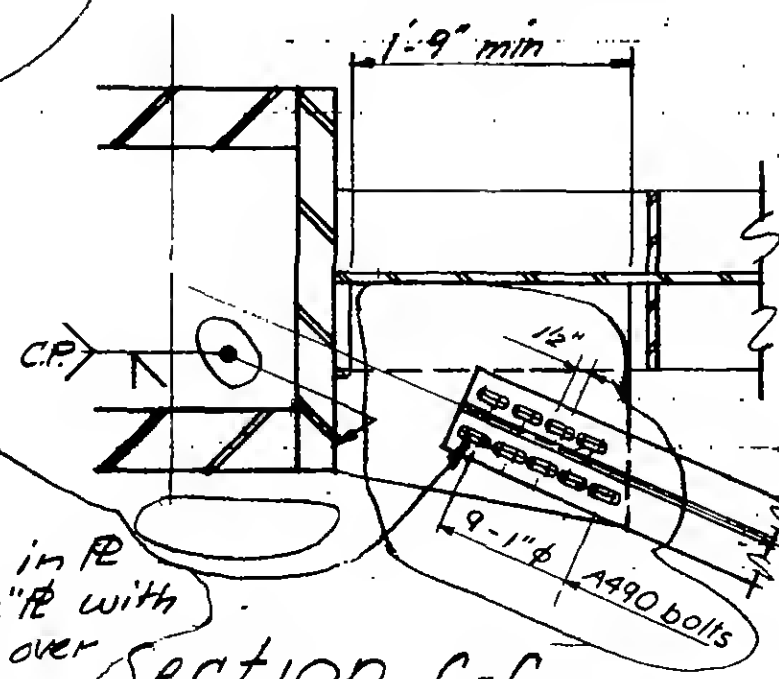


PROJECT THE WORLD TRADE CENTERTITLE CONNECTION DETAIL 841A & BDATE 9-15-67

REVISIONS

9-29-67

12-14-67

Section a-aSection b-bPLANSection c-c

1 1/2" slots in R
Provide 4" R with
1 1/8" holes over
slot.



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TITLE CONNECTION DETAIL 842A & B

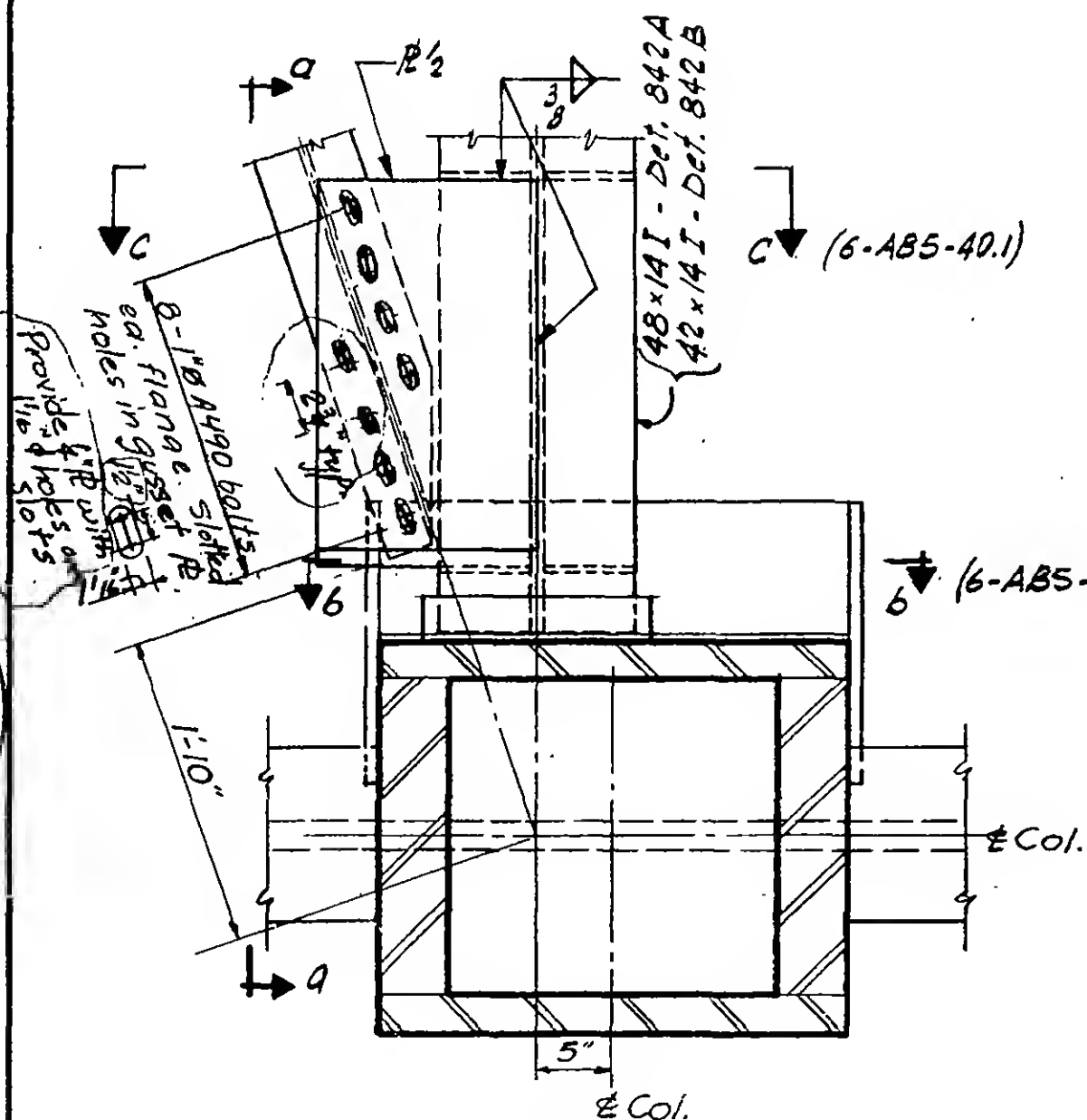
DATE 7-14-67

REVISIONS

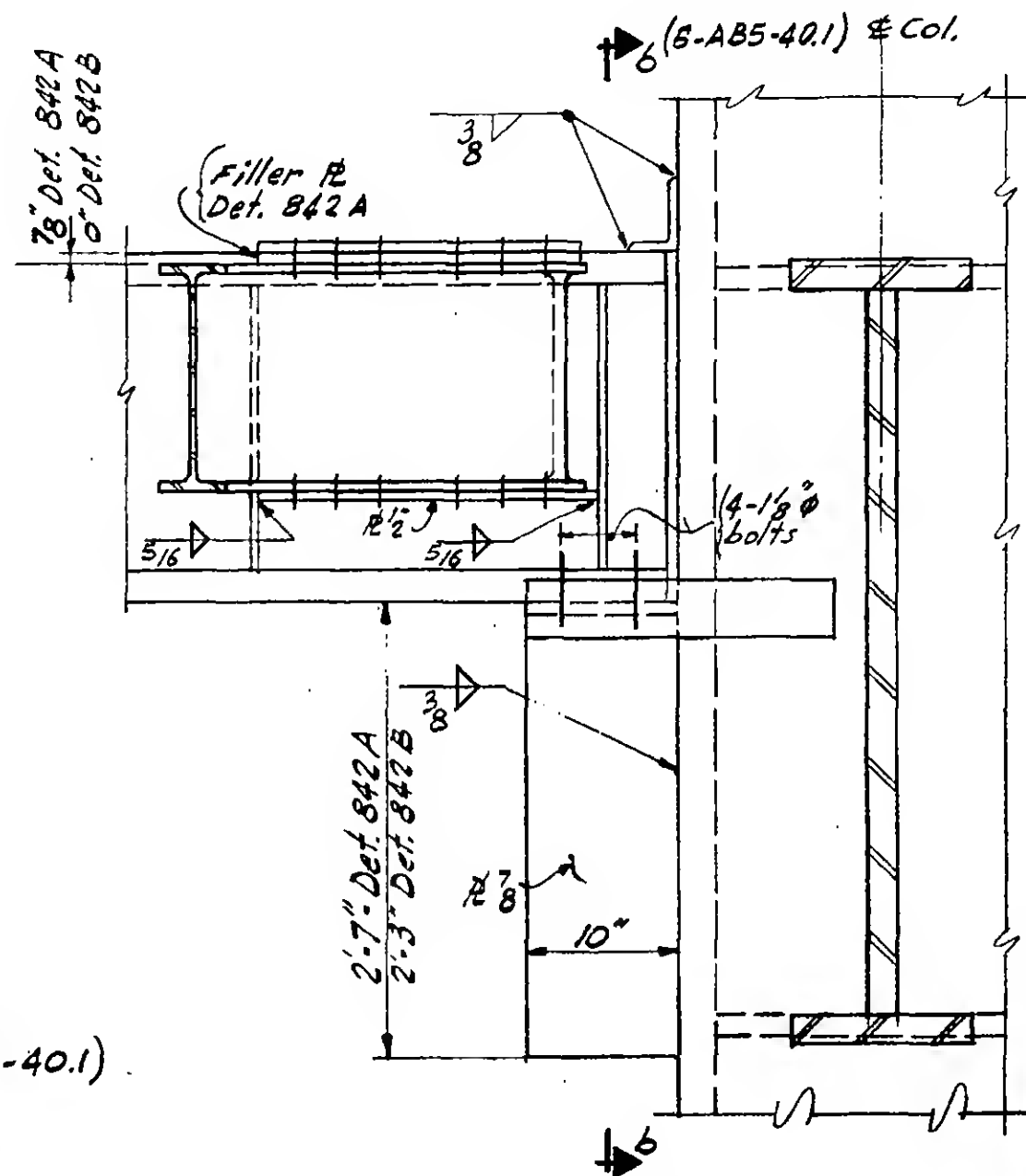
9-15-67

10-31-67

12-14-67



PLAN



Section a-a



6-AB5-40

PROJECT

THE WORLD TRADE CENTER

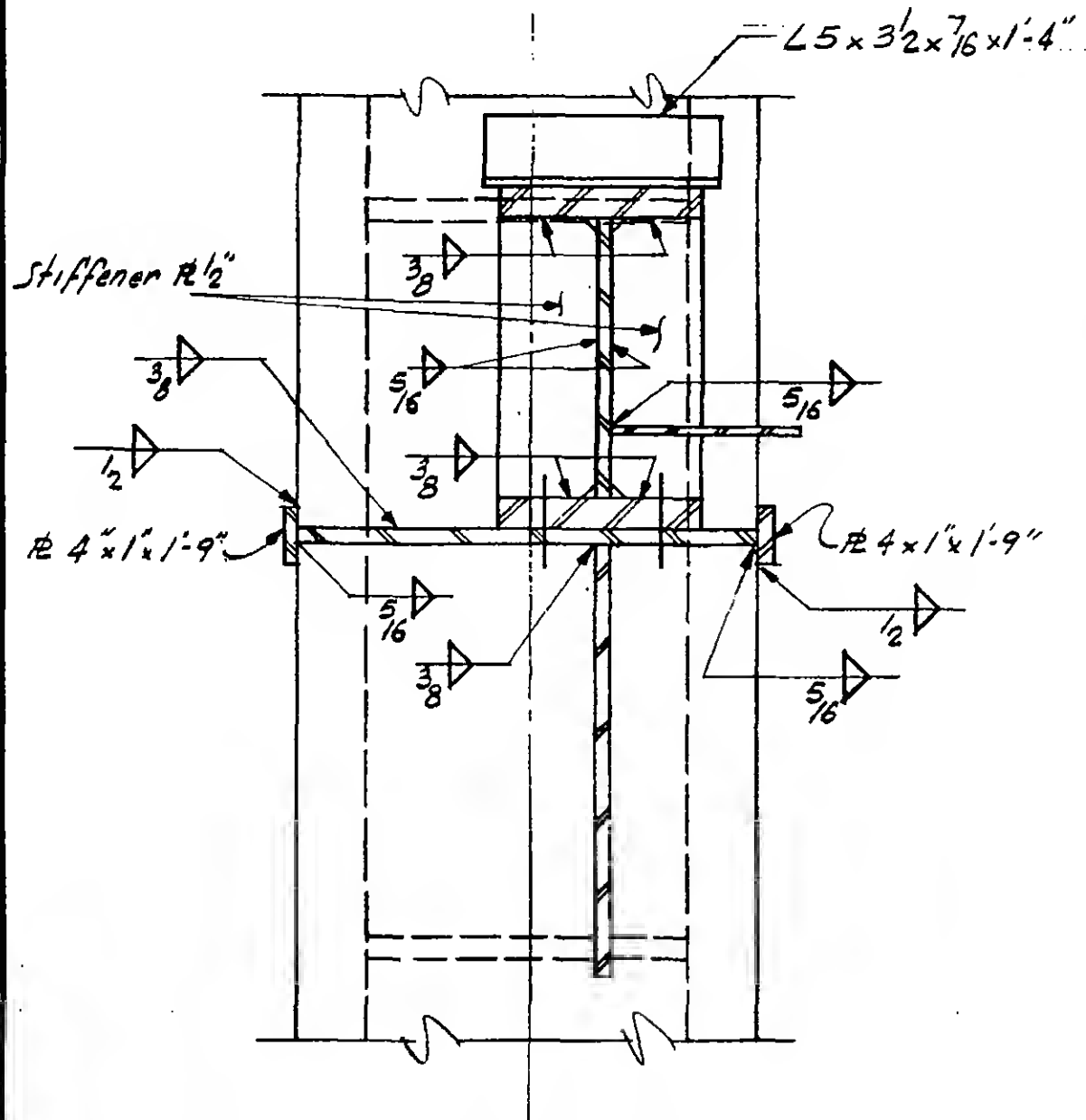
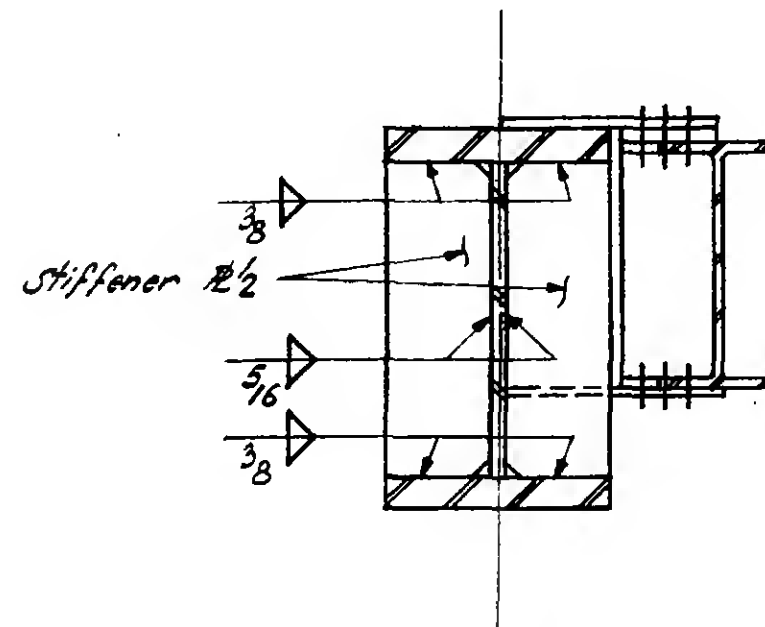
TITLE

CONNECTION DETAIL 842 A & B

DATE

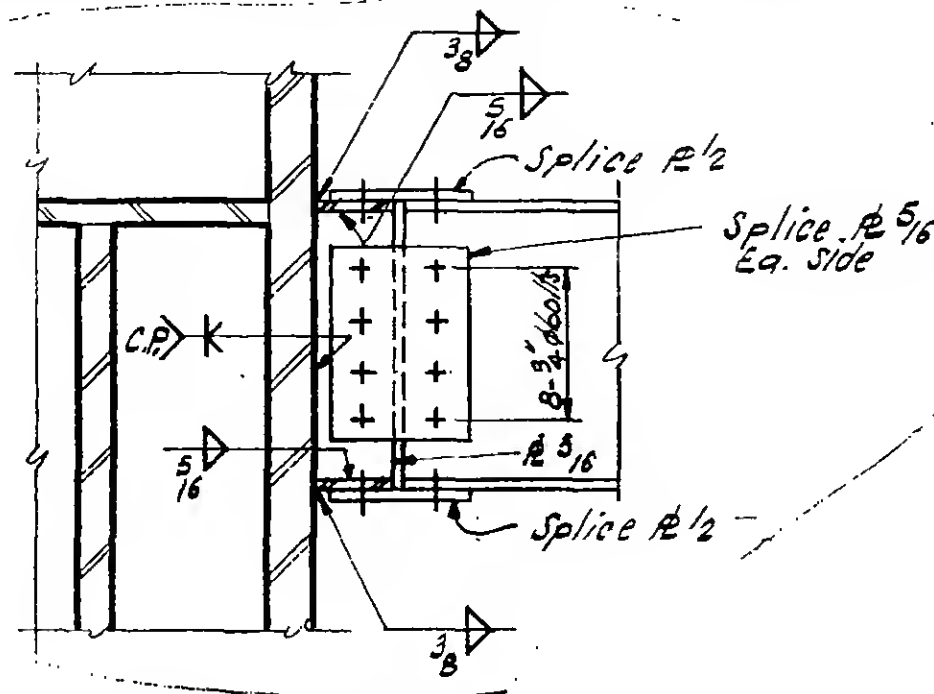
9-15-67

REVISIONS

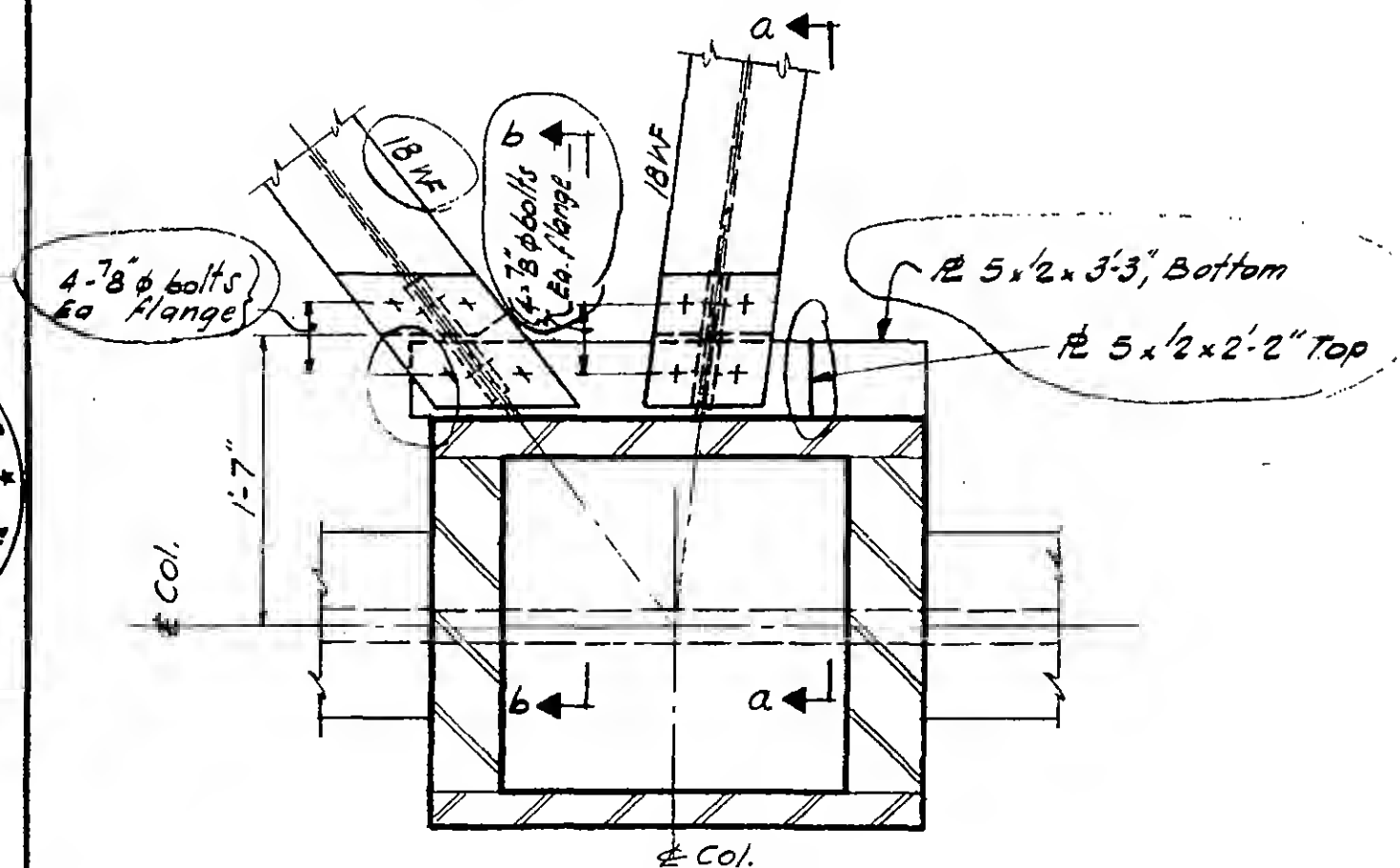
Section b-bSection c-c

REVISIONS

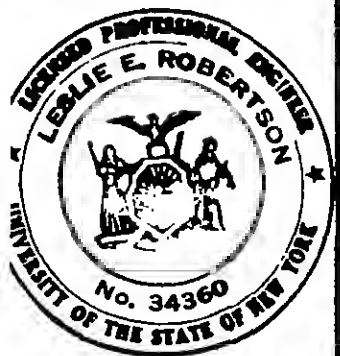
9-15-67



Section a-a
Section b-b similar

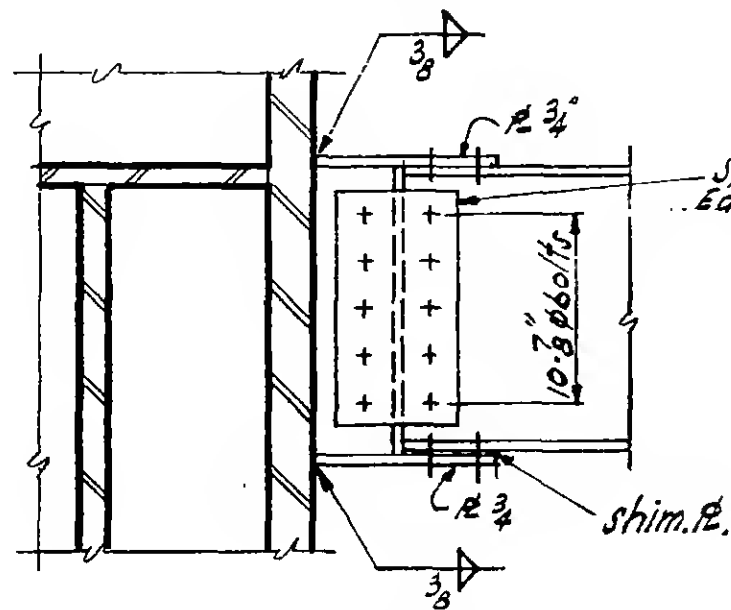


Plan

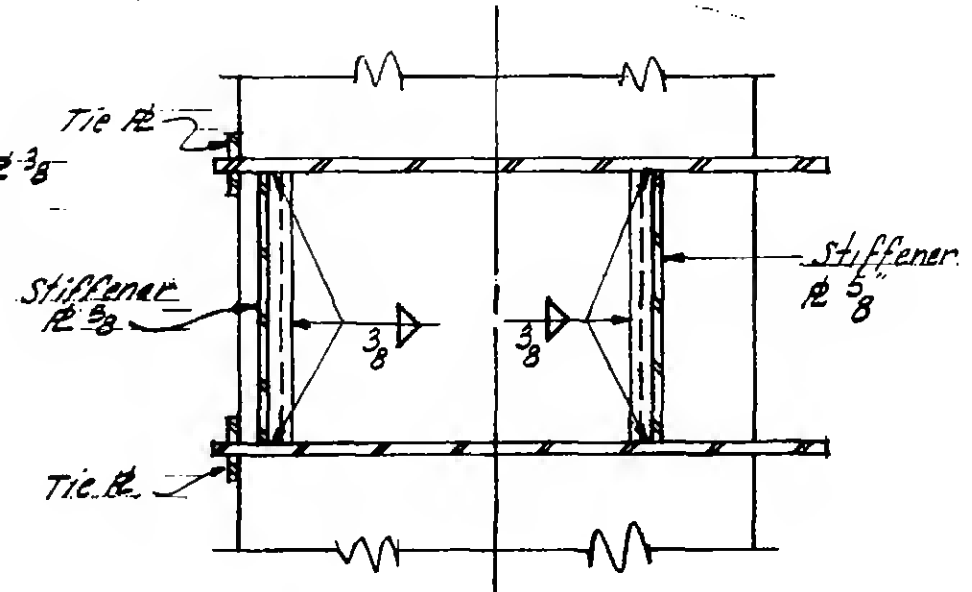


REVISIONS

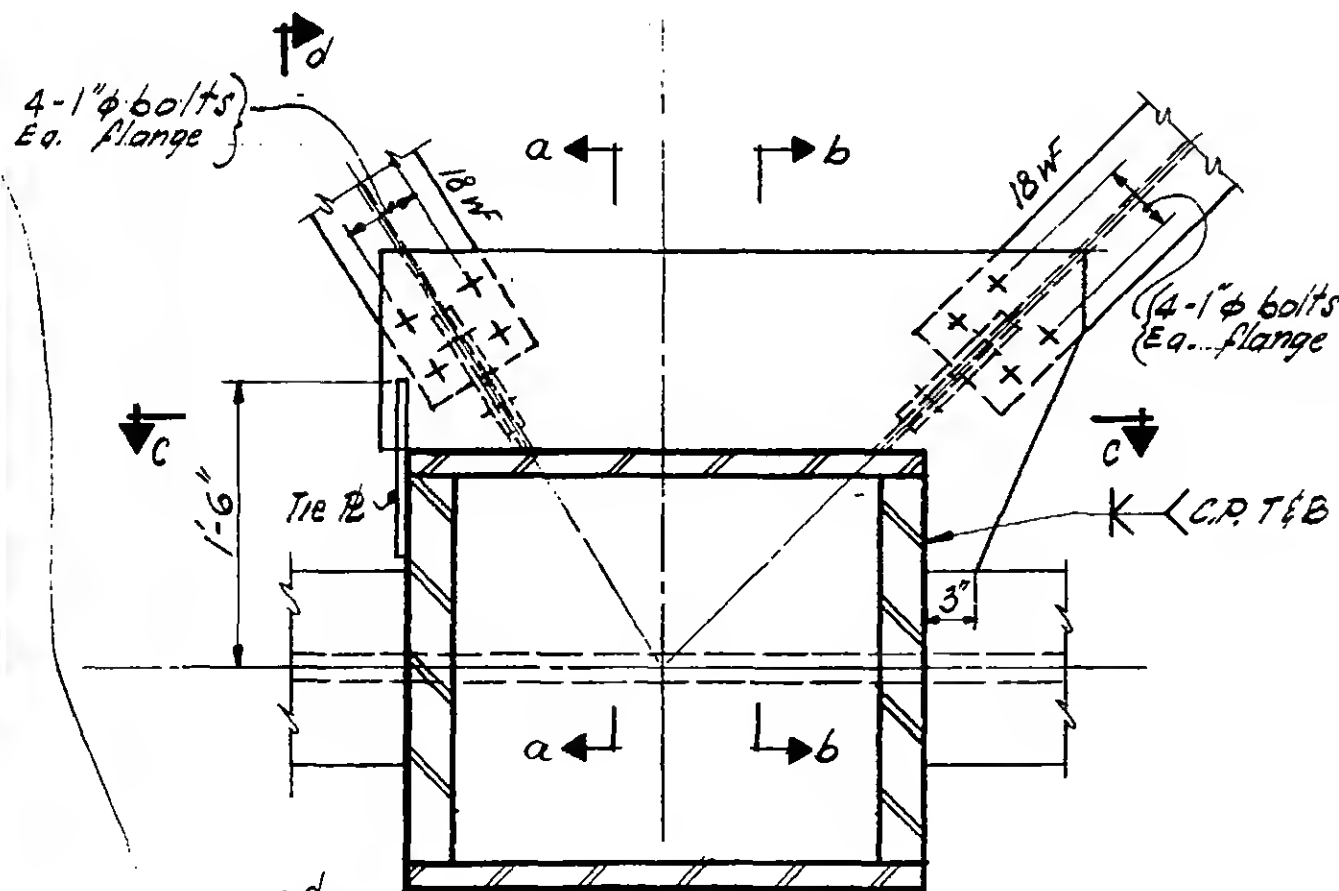
9-15-67



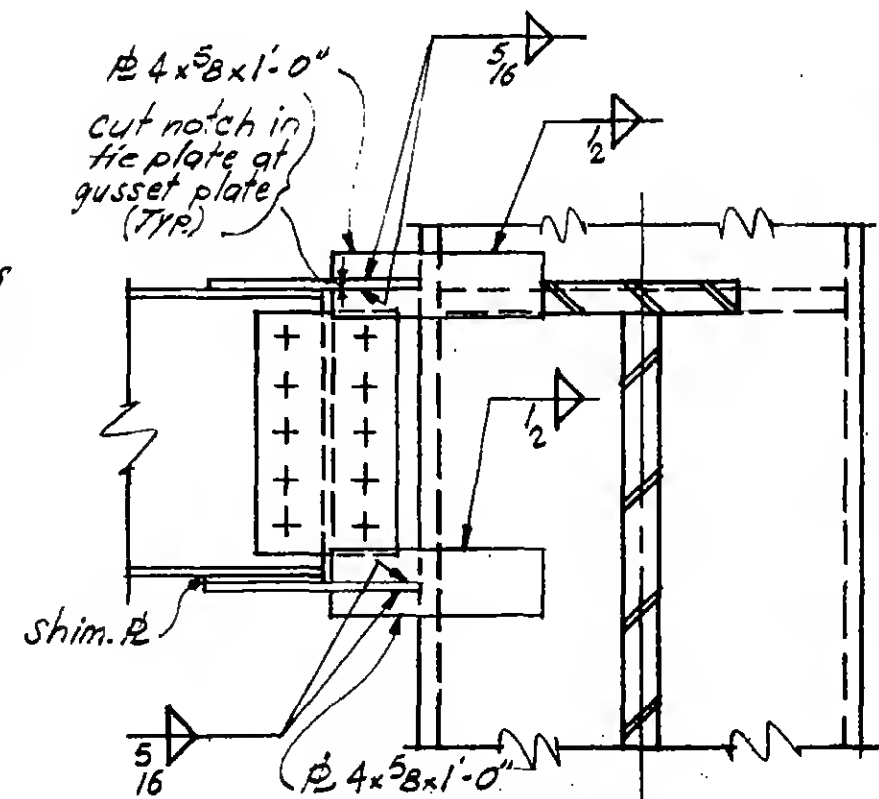
Section a-a
Section b-b Opp. hand



Section c-c



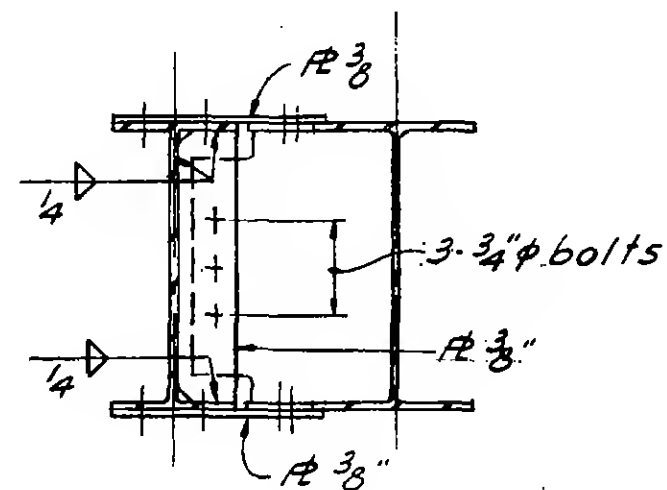
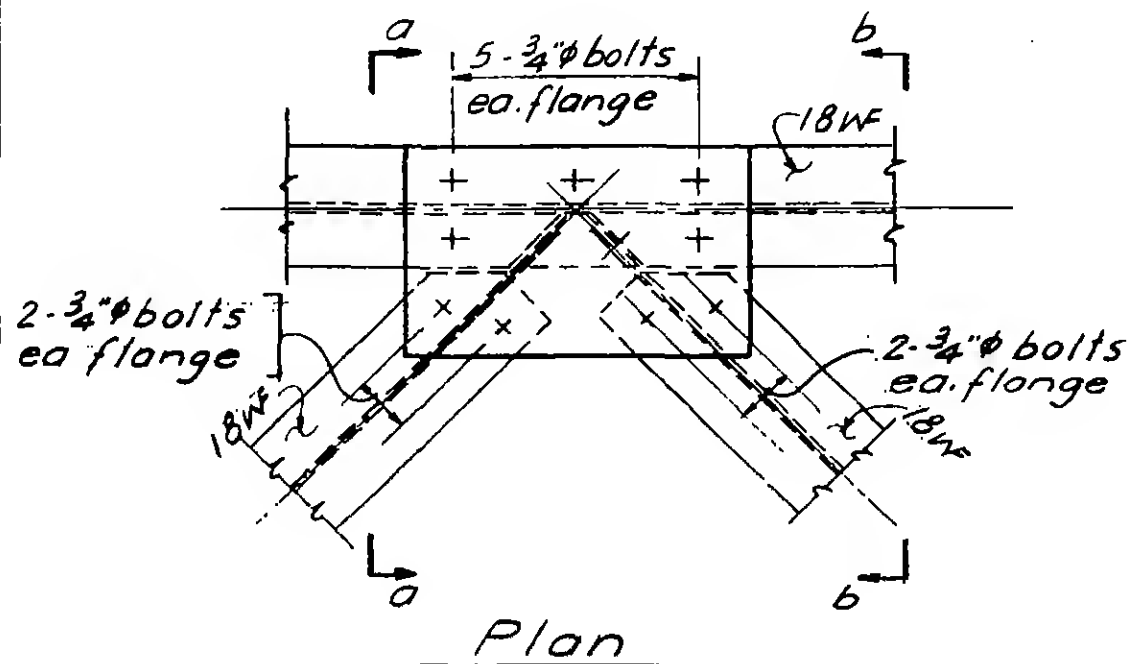
Plan



Section d-d



REVISIONS



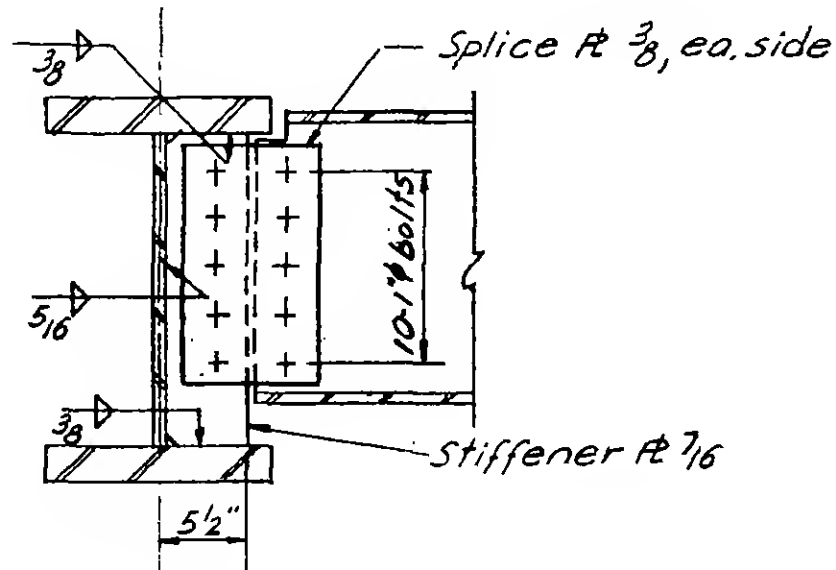
Section a-a

Section b-b, Opp. hand

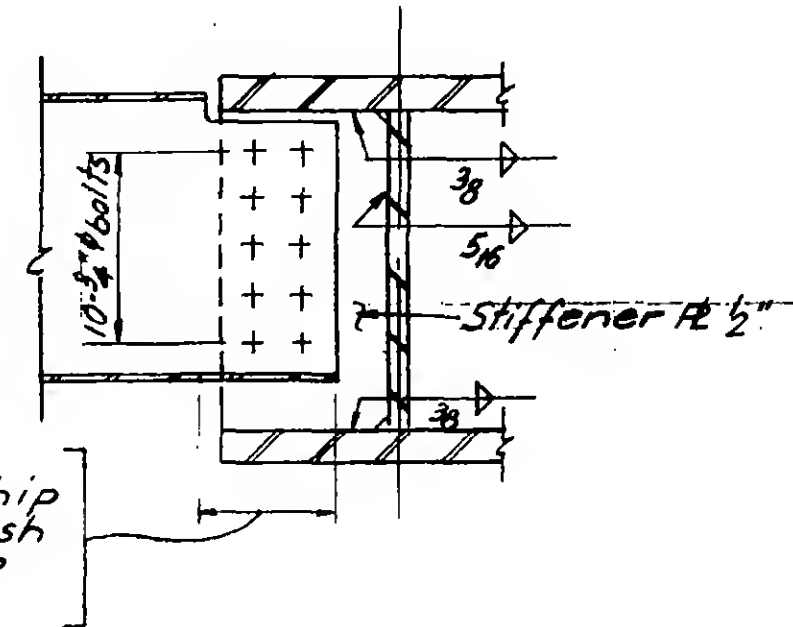


REVISIONS

10-31-67

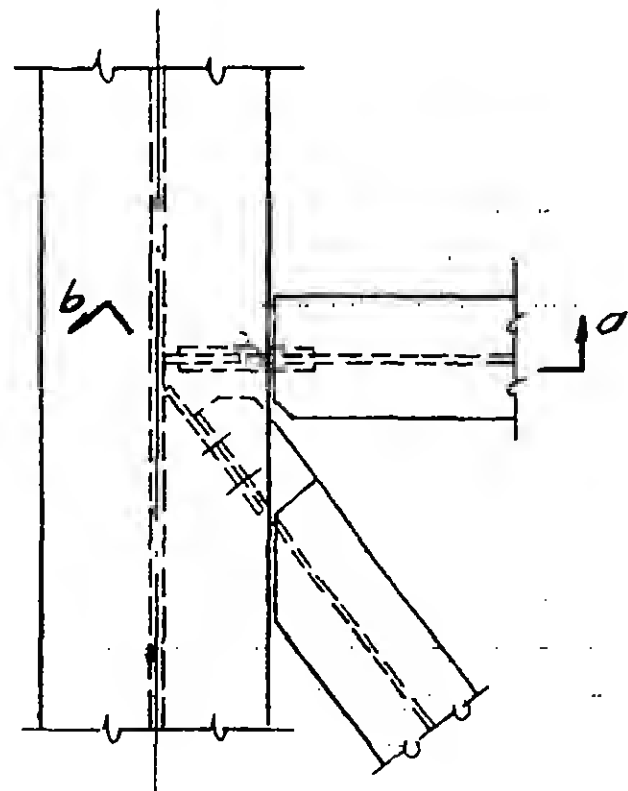


Section a-a



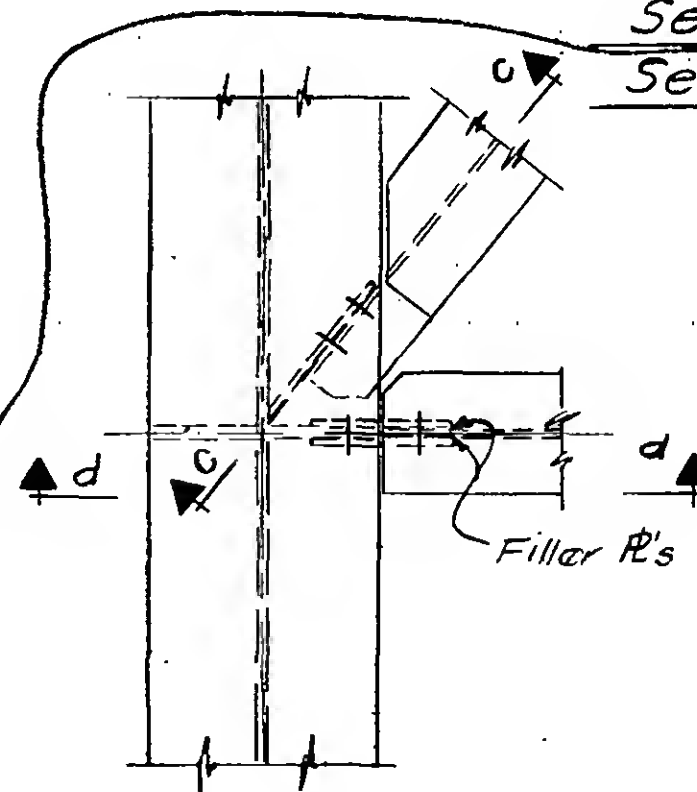
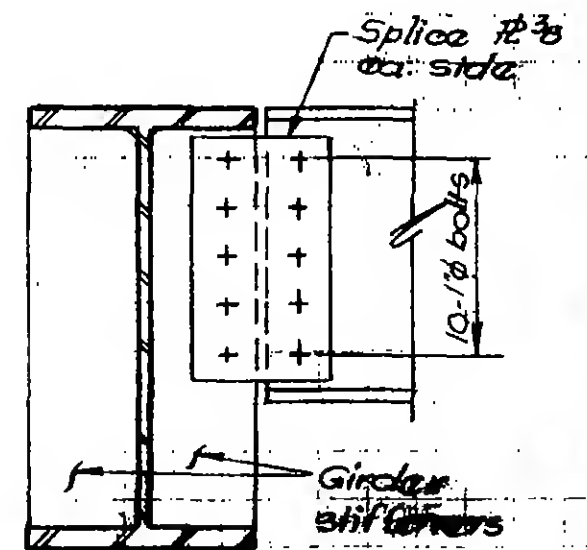
Section b-b

Section c-c, opp. hand.



Plan

Det. 846 A

Plan
Det. 846 B

Section d-d

6-AB5-44



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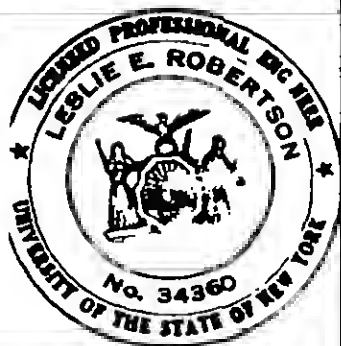
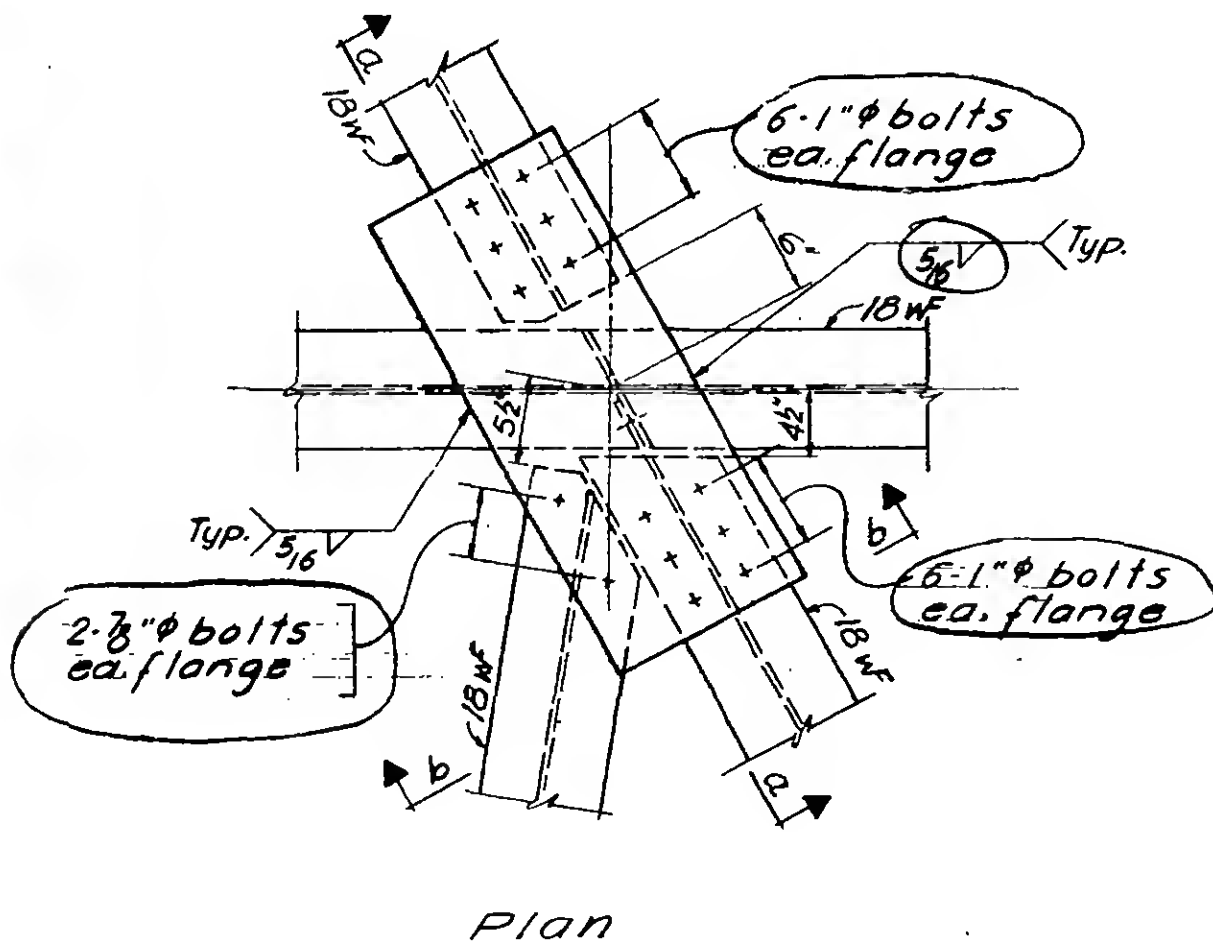
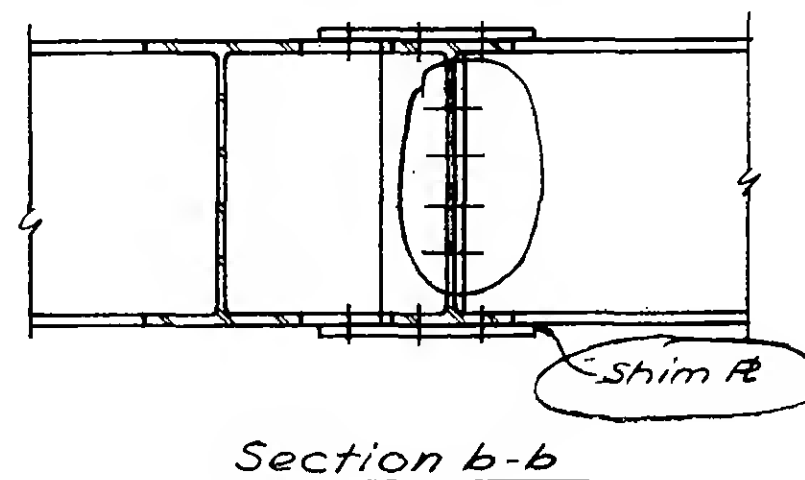
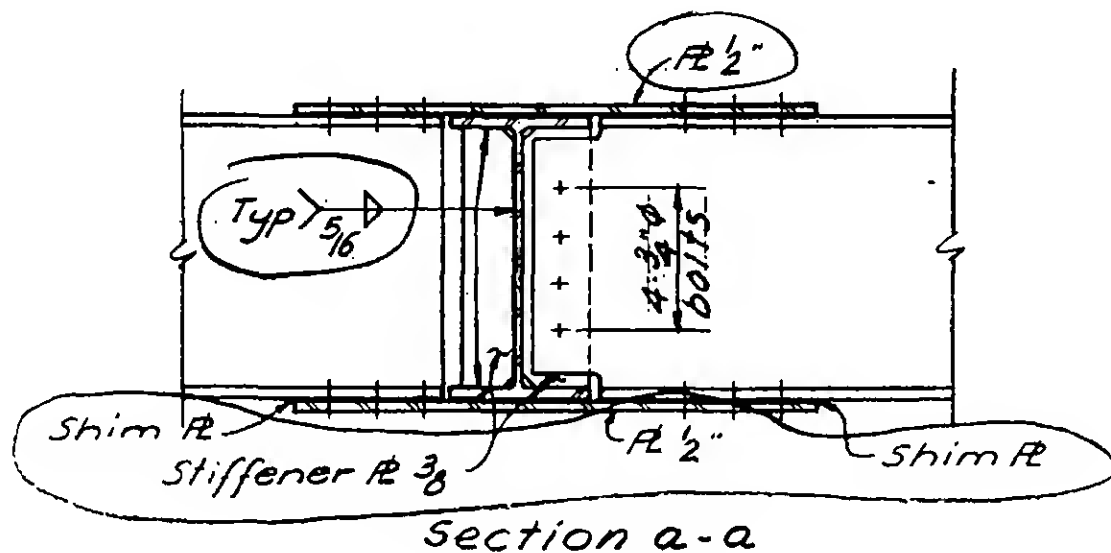
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 847A

DATE 7-14-67

REVISIONS

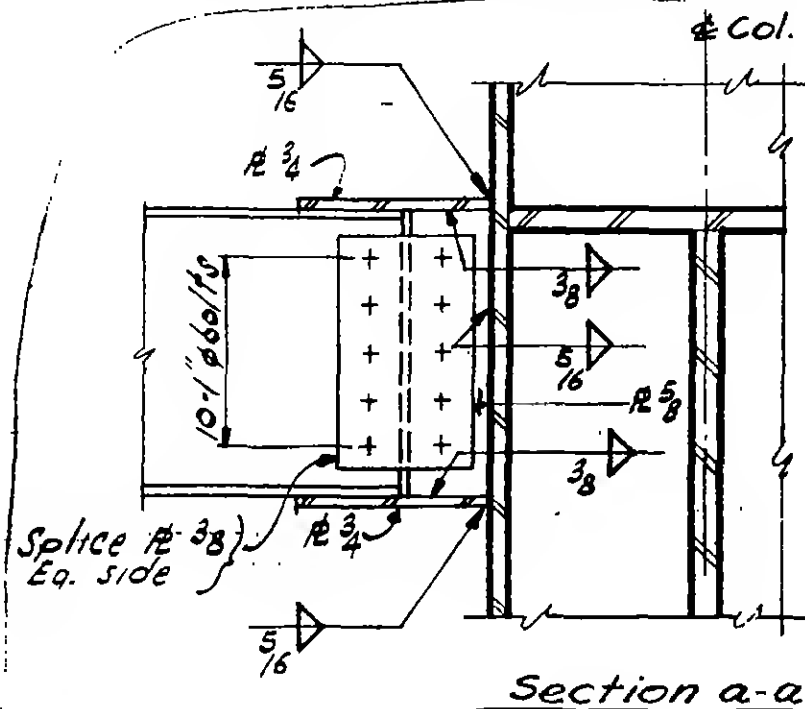
9-29-67



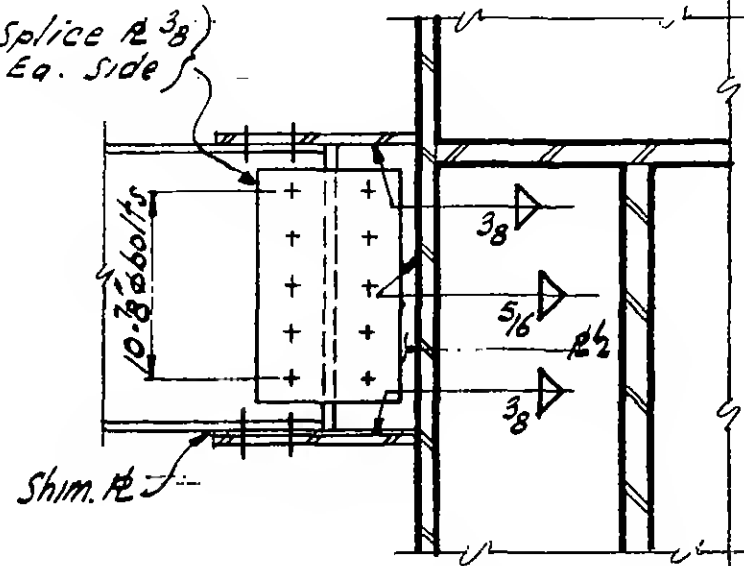
6-AB5-45

REVISIONS

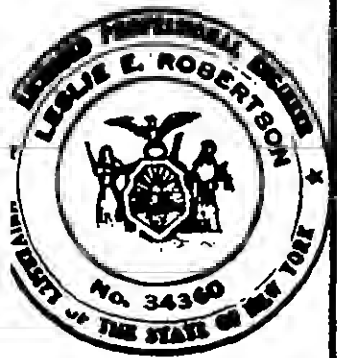
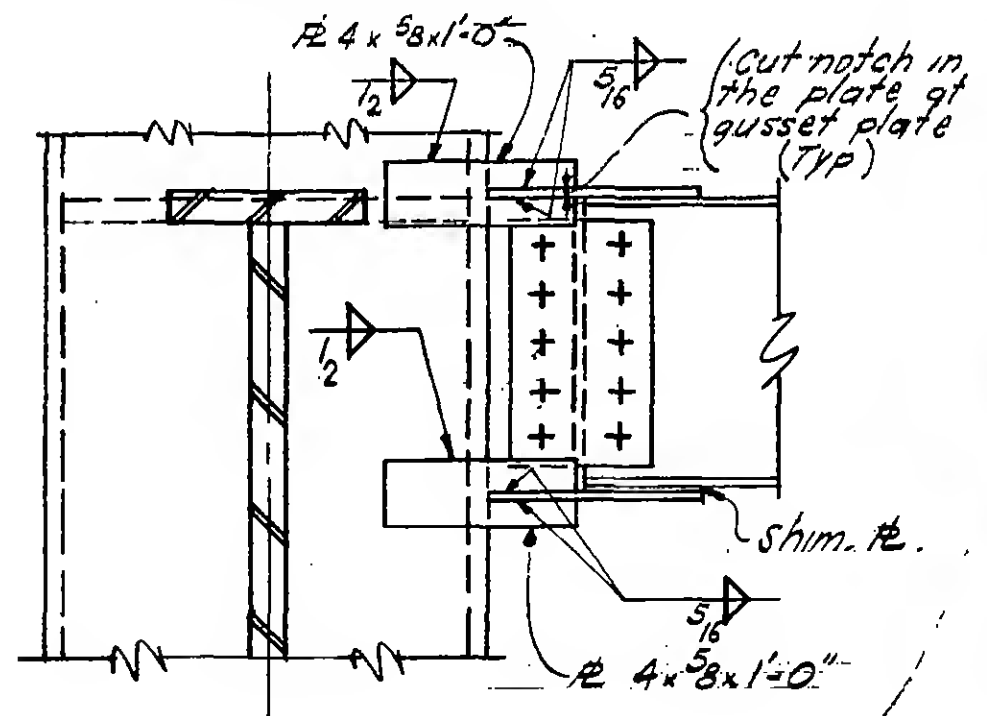
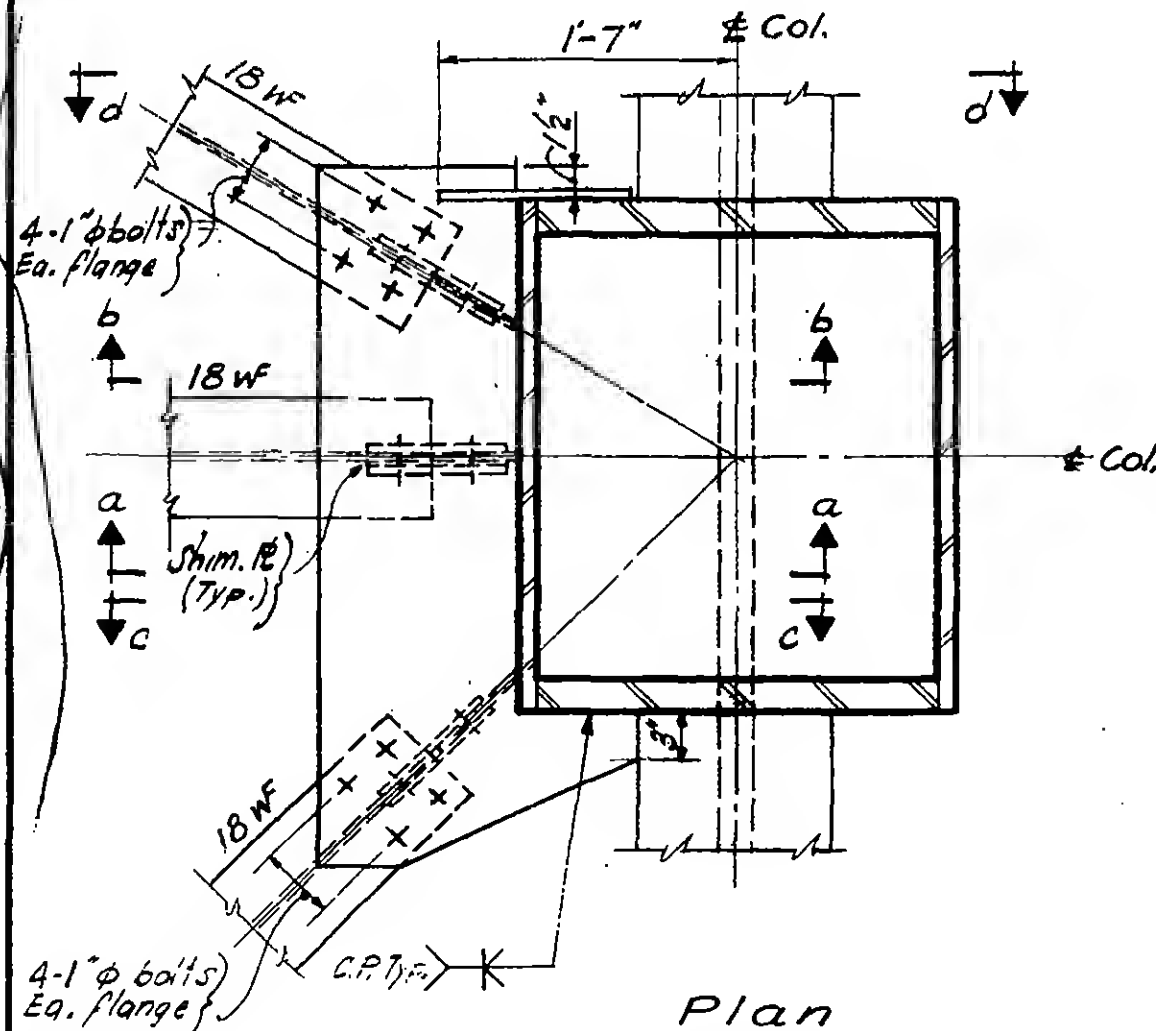
9-15-67



Splice 1/2 3/8
Eq. side

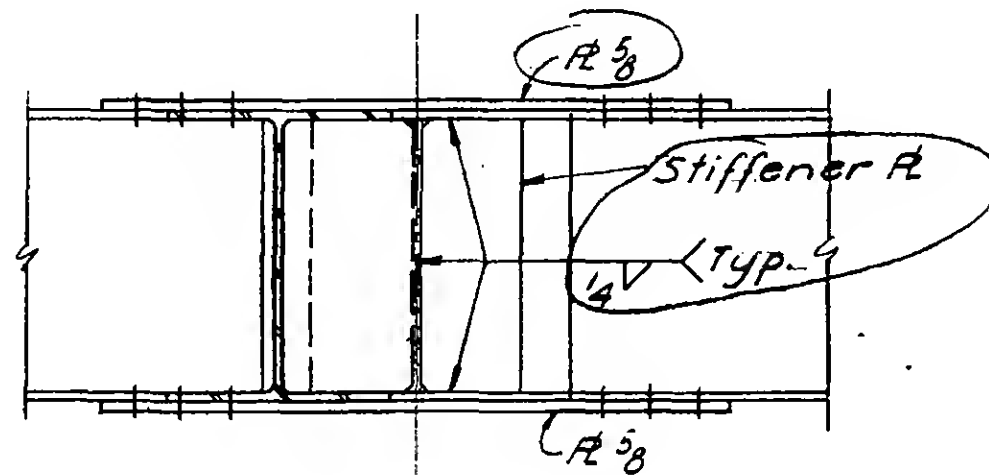


Section b-b
Section c-c, Opp hand

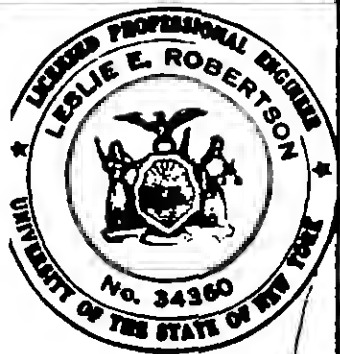
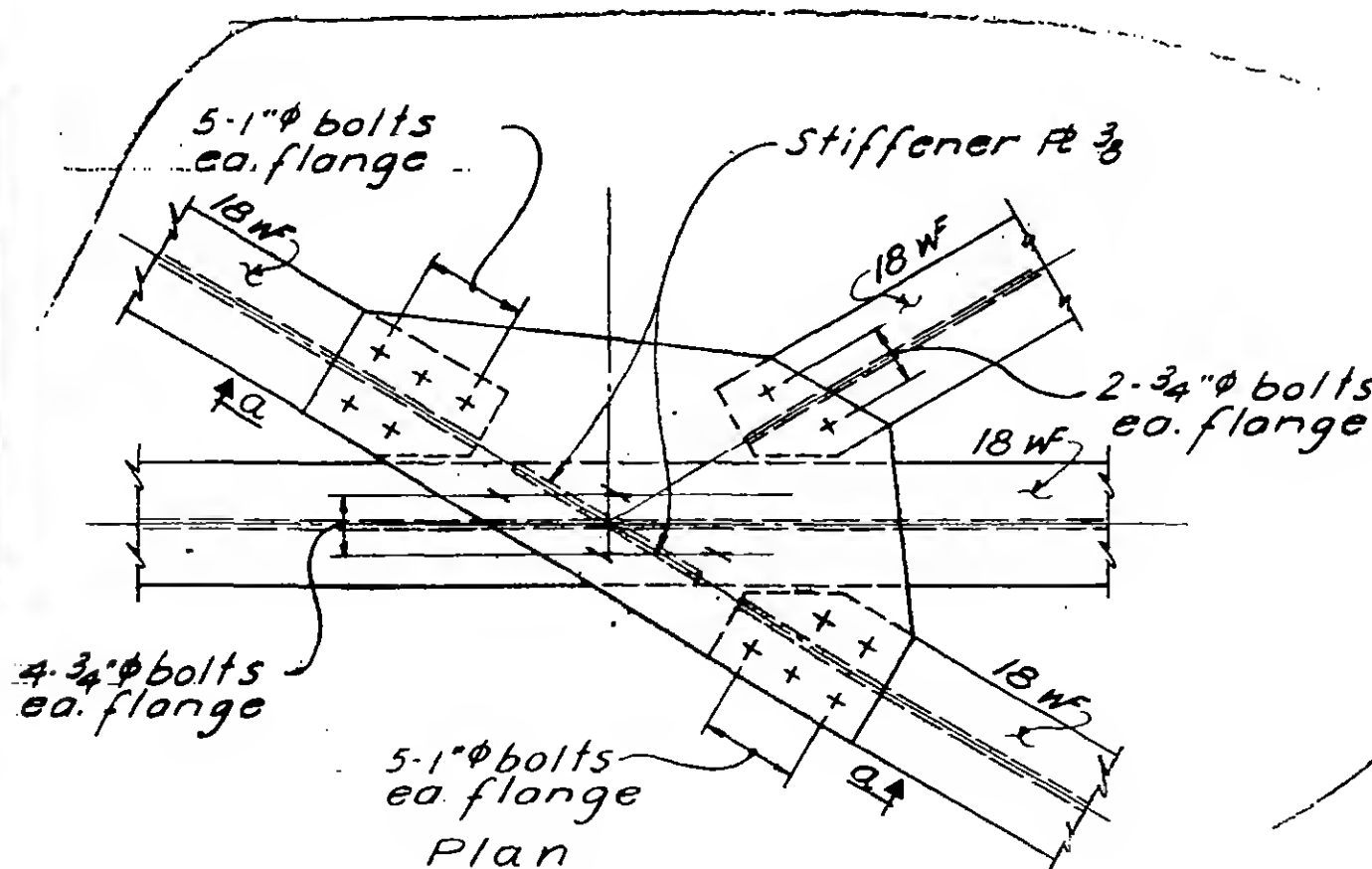


REVISIONS

9-29-67



Section a-a



PROJECT

THE WORLD TRADE CENTER

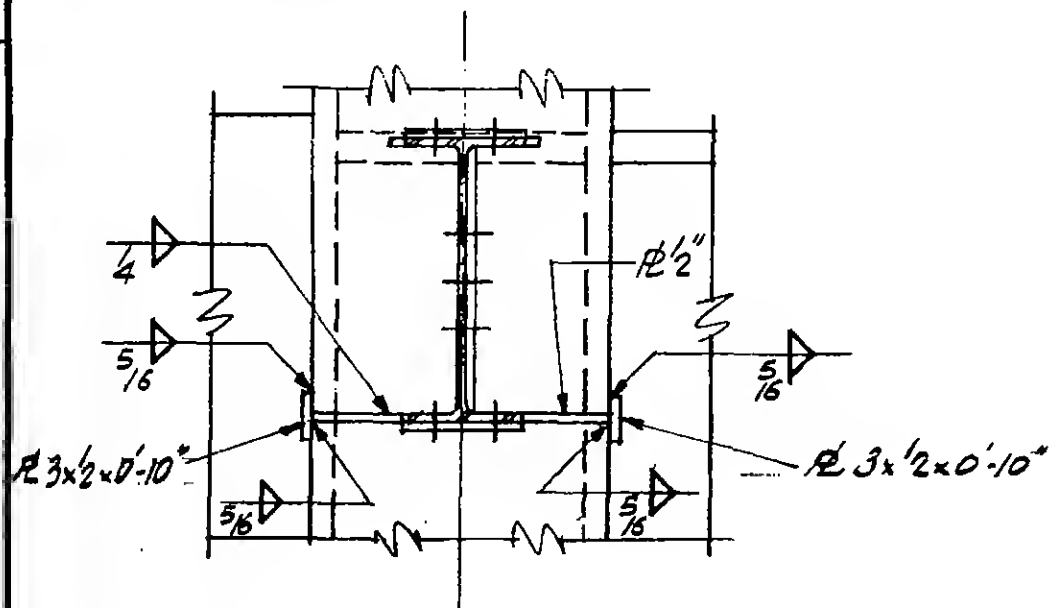
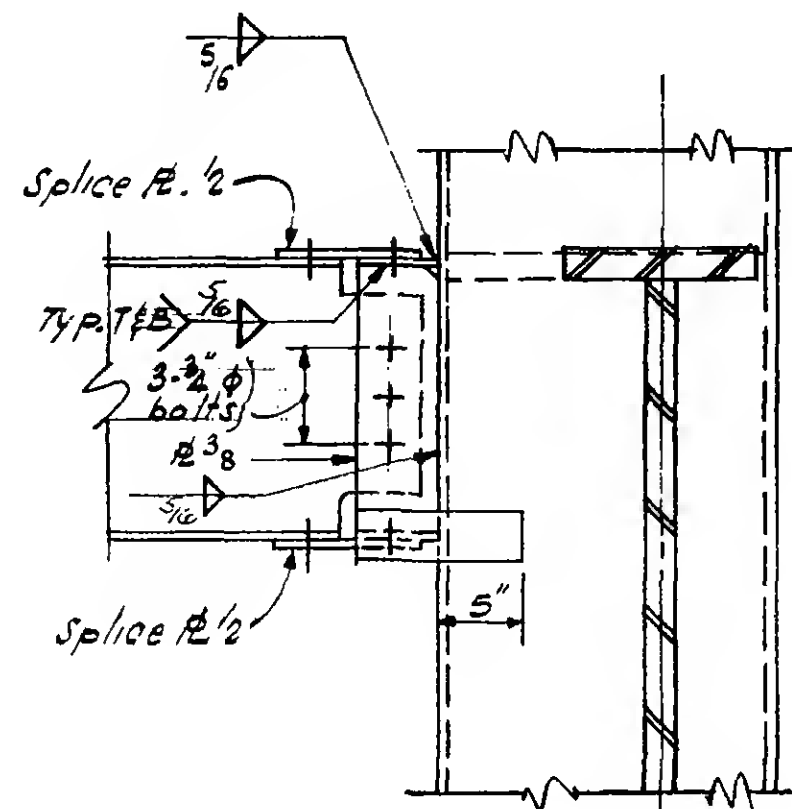
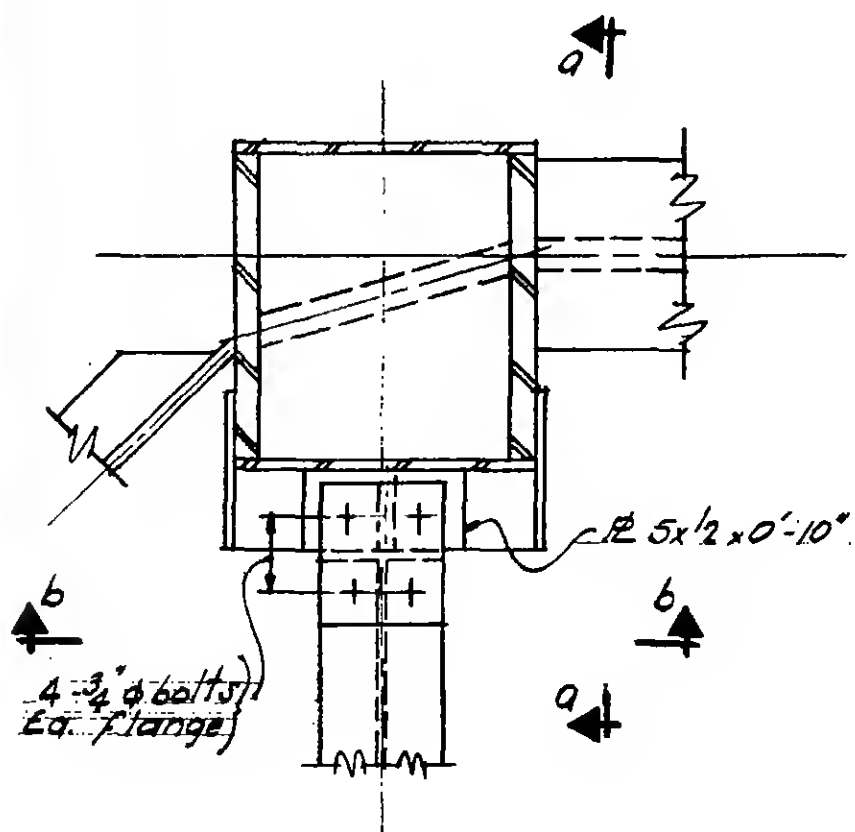
TITLE

CONNECTION DETAIL 850 A

DATE

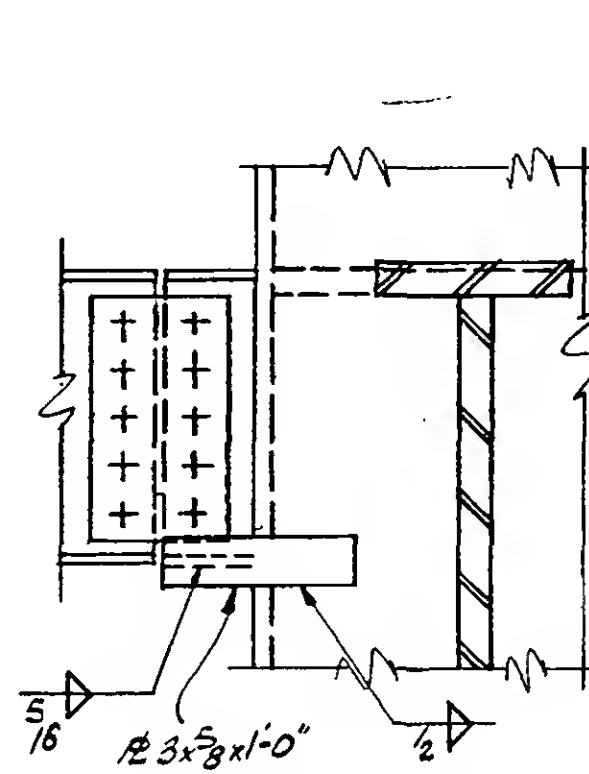
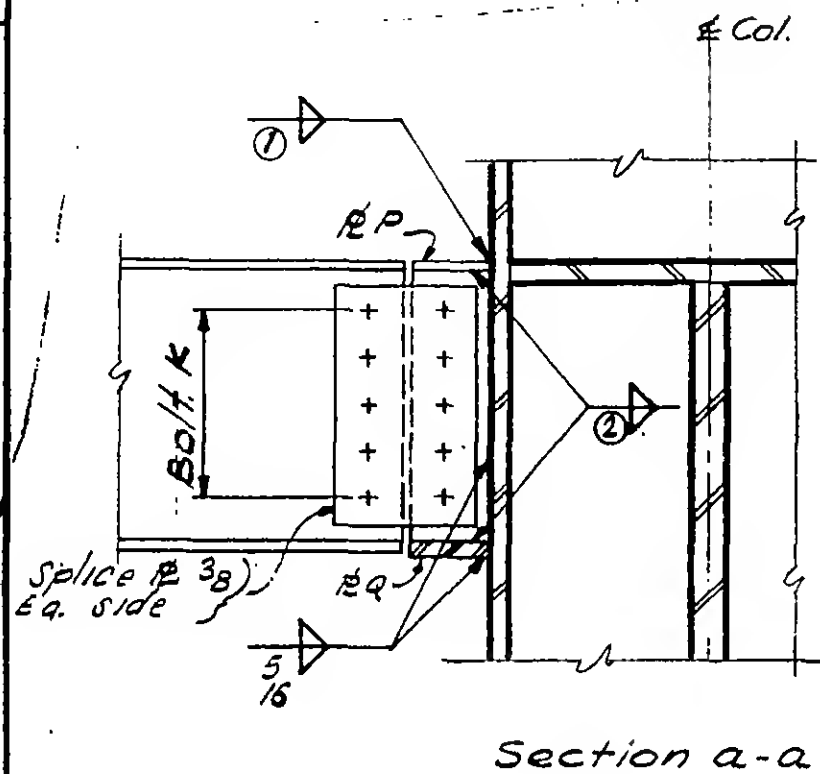
9-15-67

REVISIONS

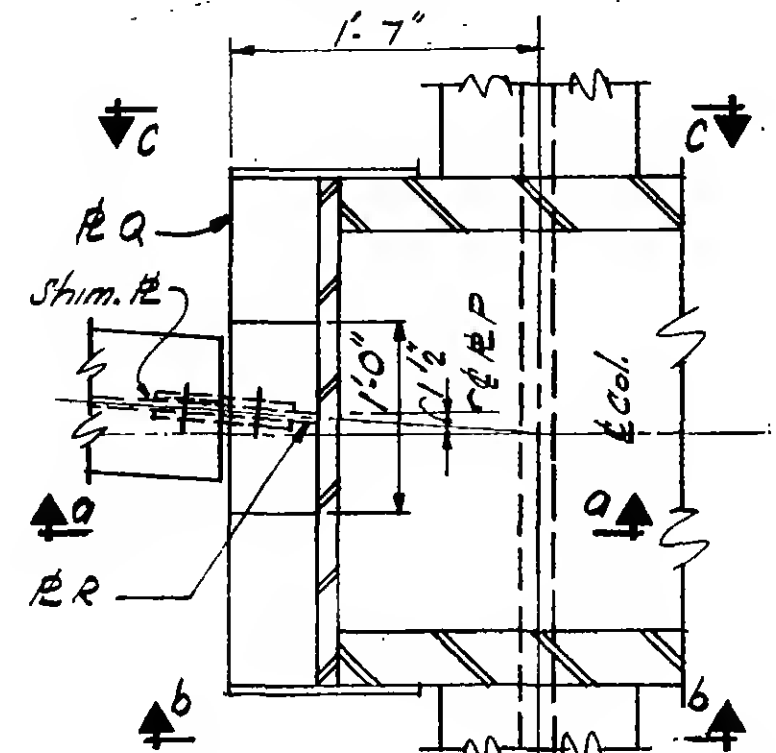
Section b-bSection a-aPLAN

REVISIONS

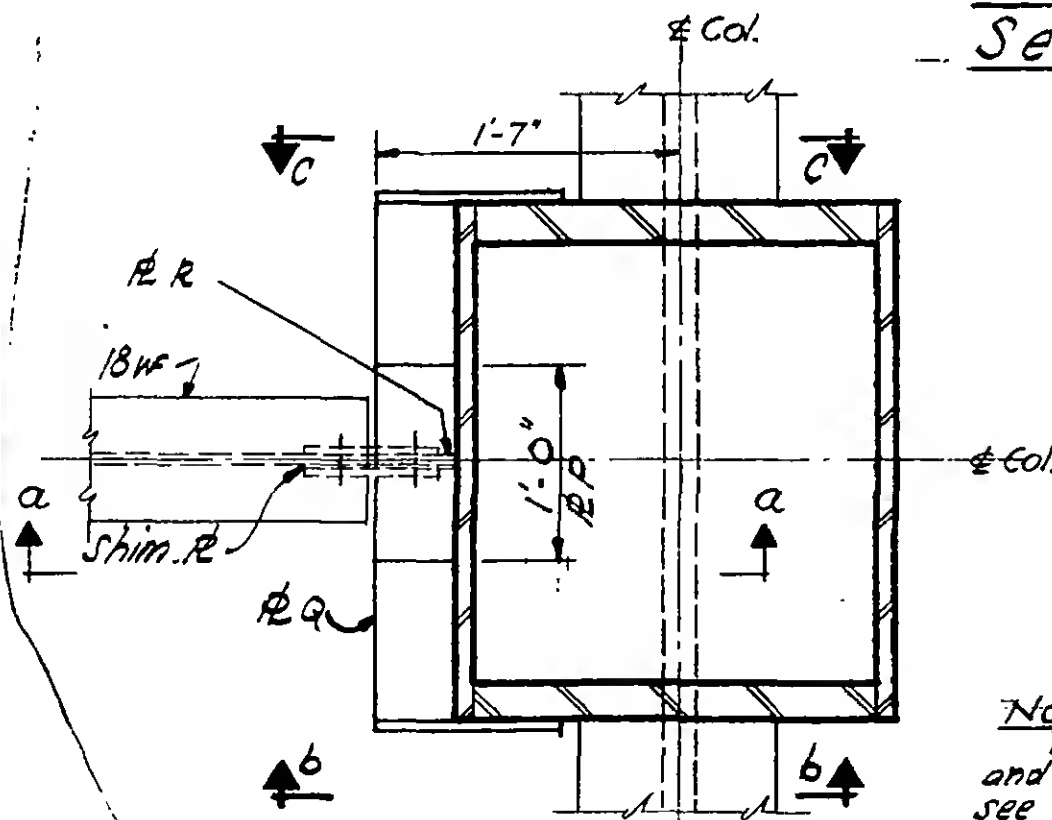
9-15-67



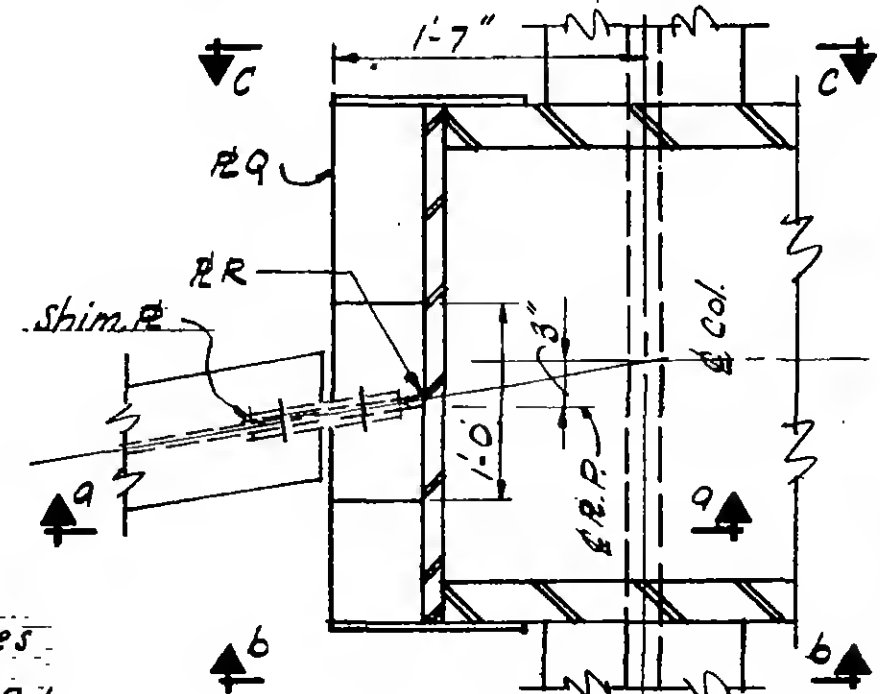
Section c-c, Opp. hand



Det. 851 D- As shown
Det. 851 C- Opp. hand

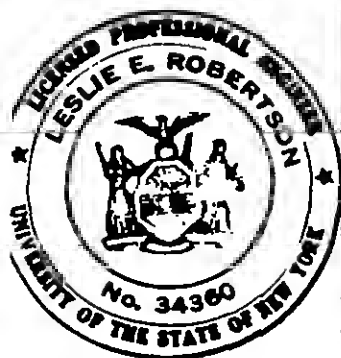


Det. 851 A, B, & E



Det. 851 F

Note:
For bolts, plates
and welds not given
see SCH. 6-AB5-49.1



Structural & Civil Engineers

THE WORLD TRADE CENTER

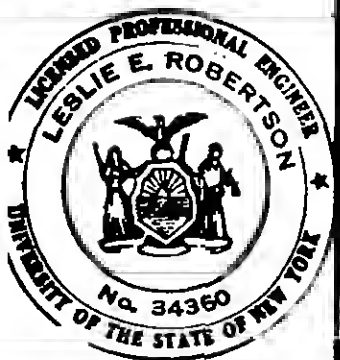
SCHEDULE FOR DETAIL

85/ A, B, C, D, E & F

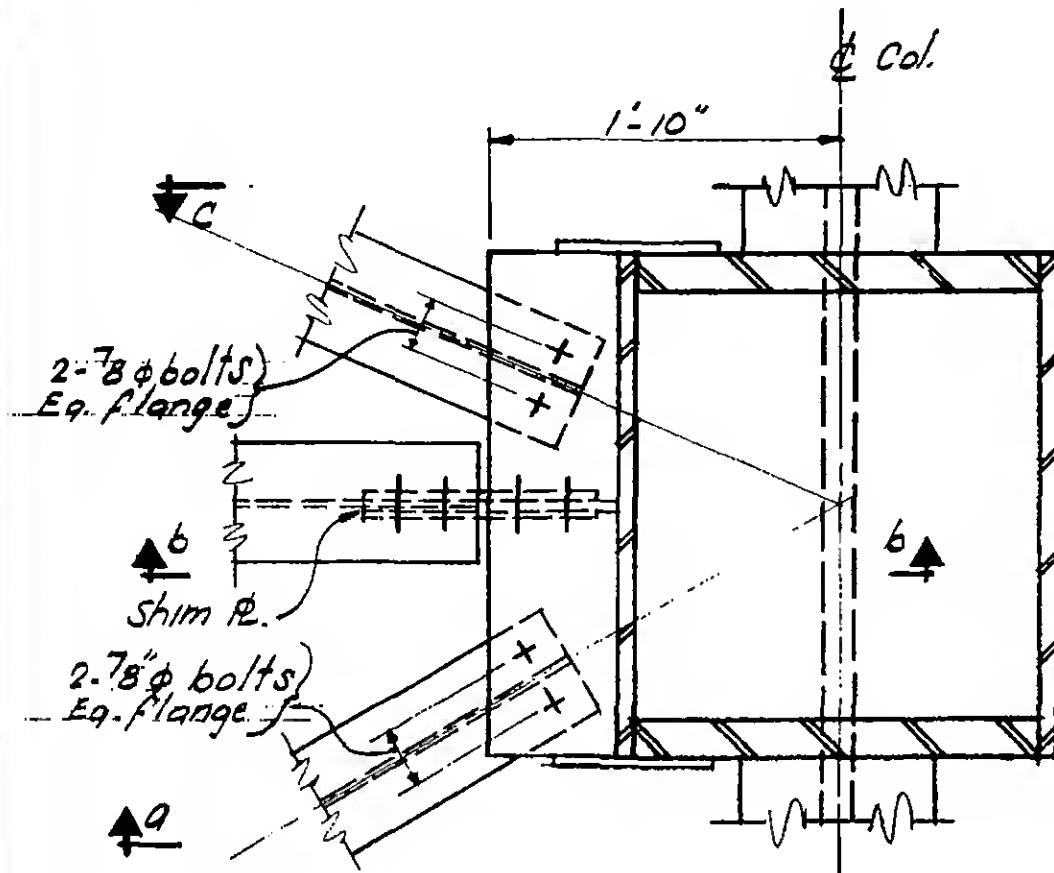
9-15-67

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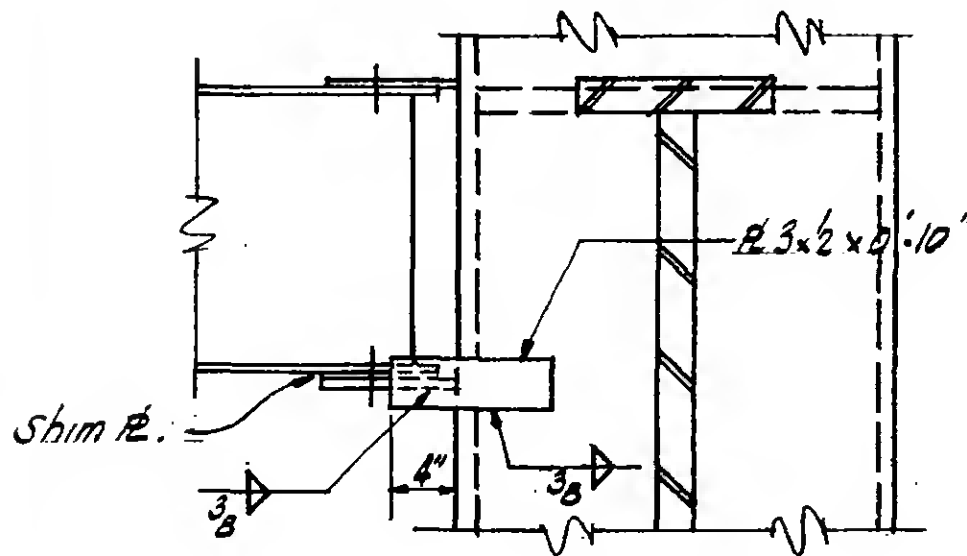
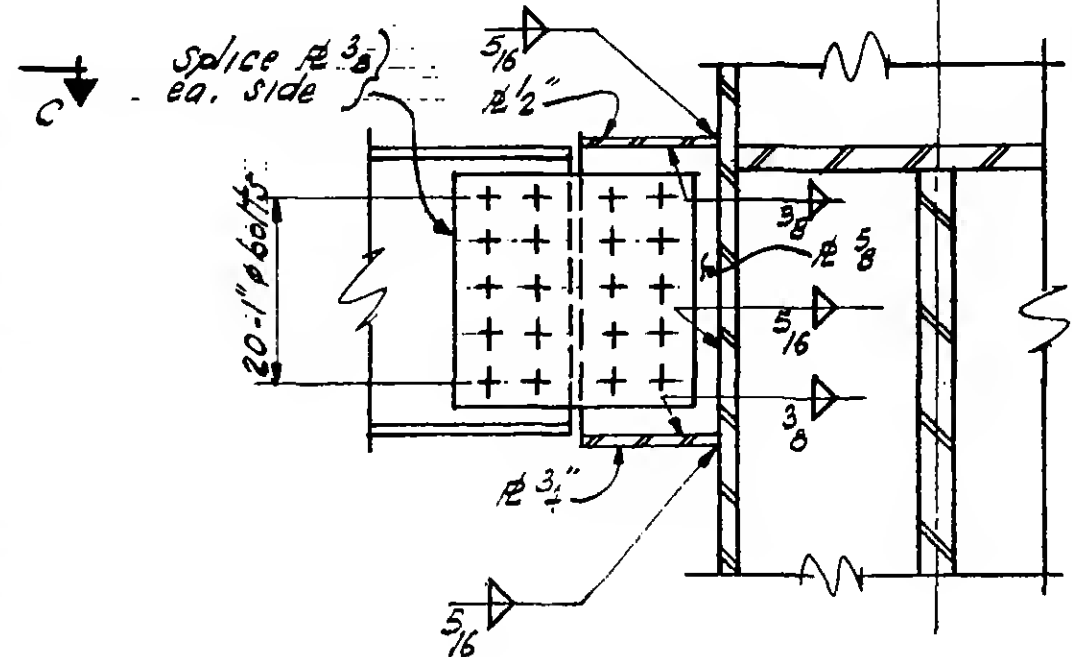
6-185-49.1



REVISIONS



PLAN



Section c-c, Opp. hand



PROJECT

THE WORLD TRADE CENTER

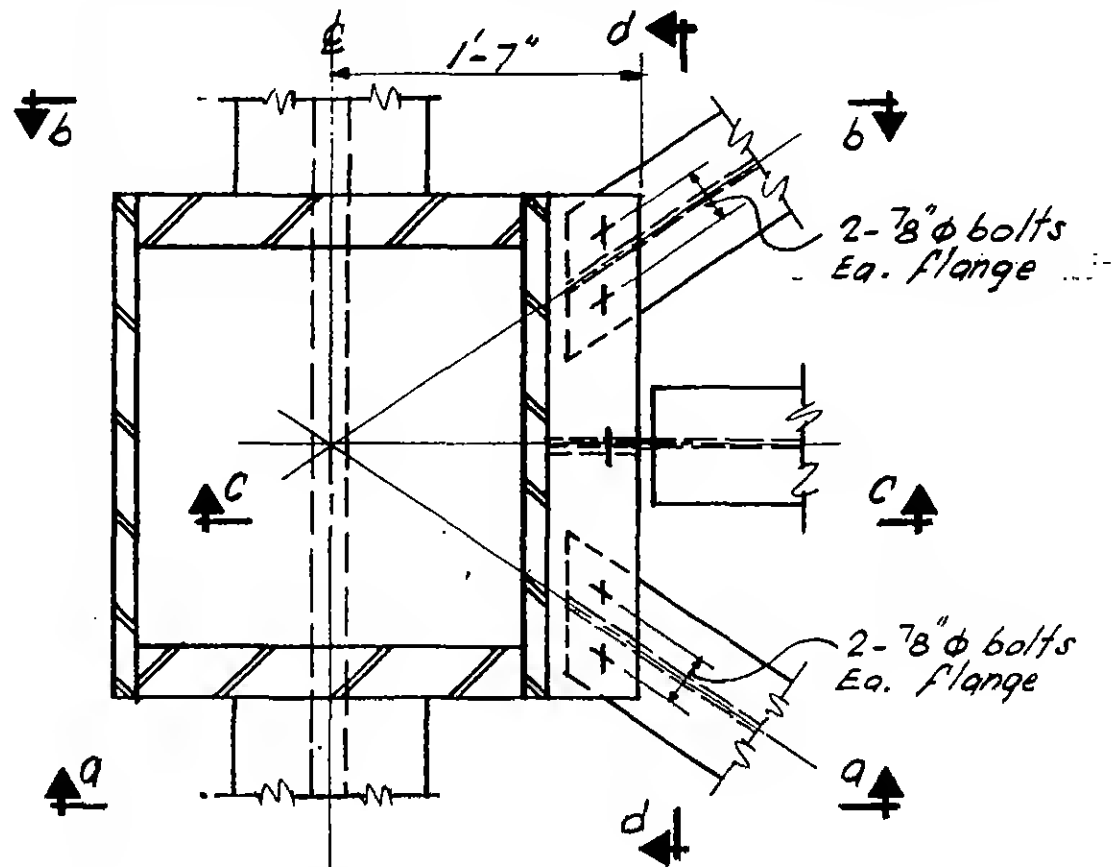
TITLE

CONNECTION DETAIL 852 B

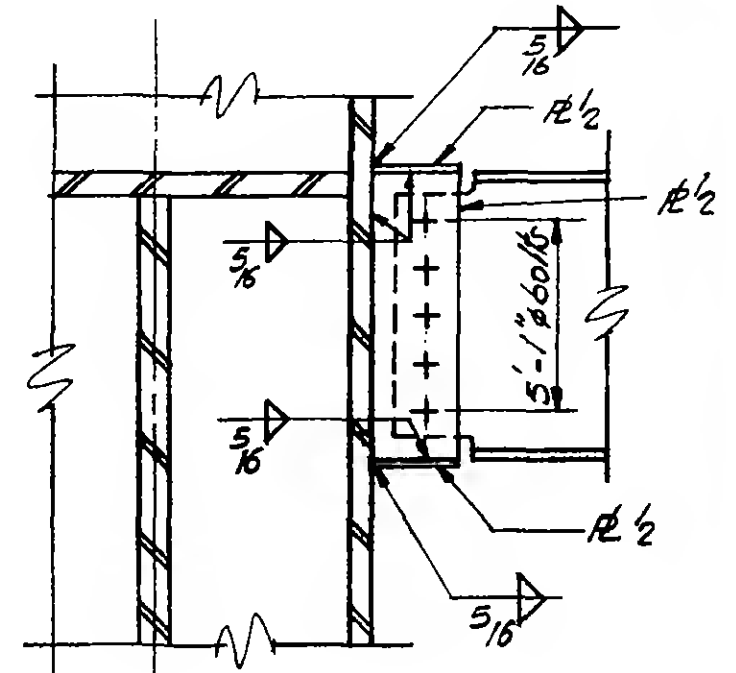
DATE

9-15-67

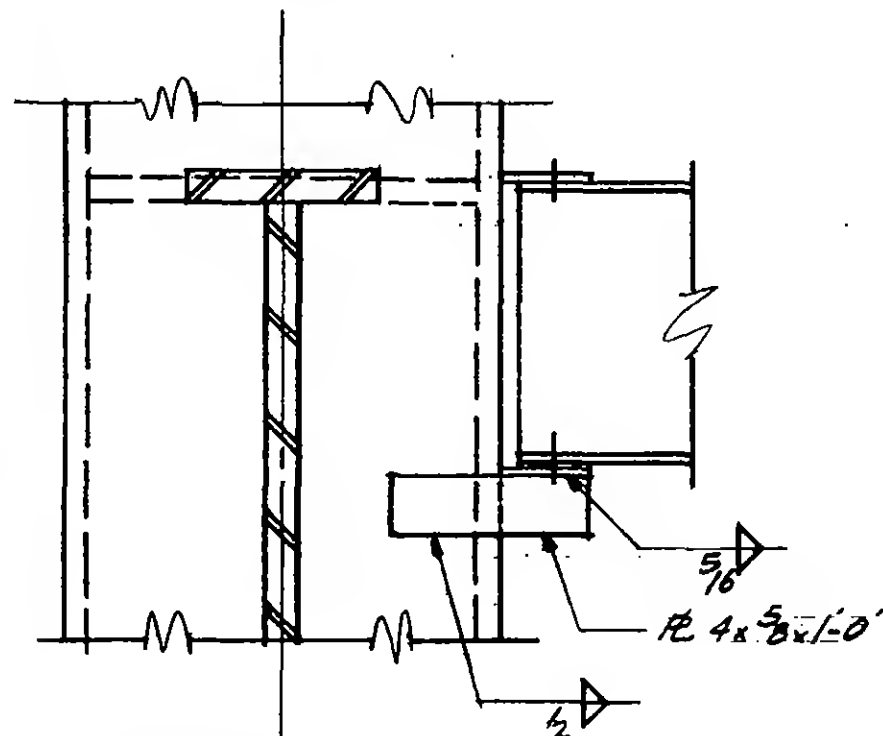
REVISIONS



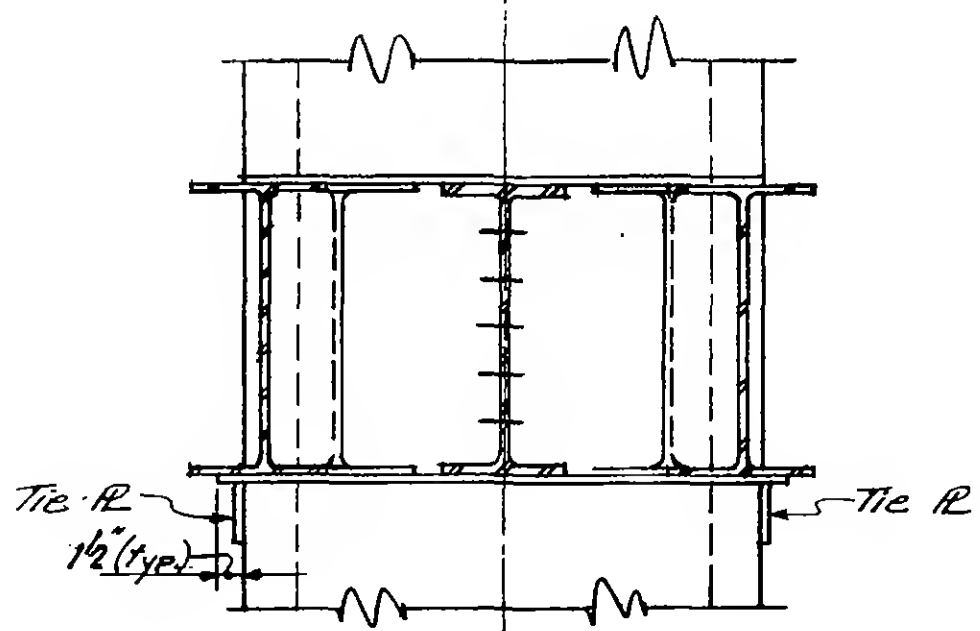
PLAN



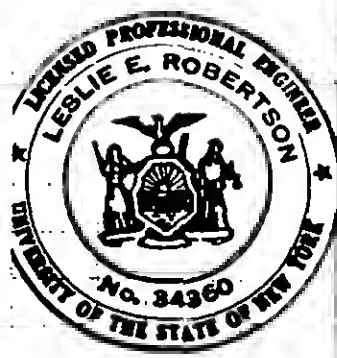
Section c-c



Section a-a
Section b-b, Opp. hand



Section d-d



PROJECT

THE WORLD TRADE CENTER

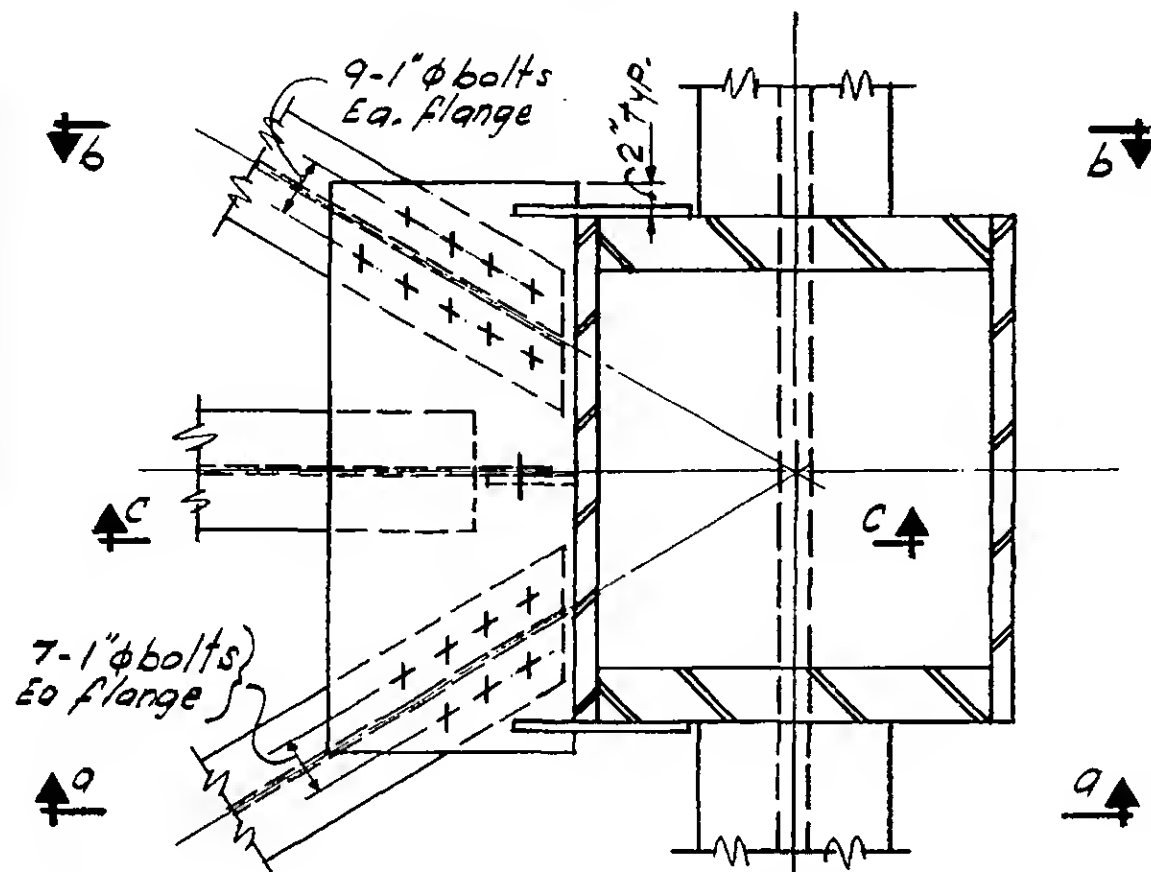
TITLE

CONNECTION DETAIL 852 C

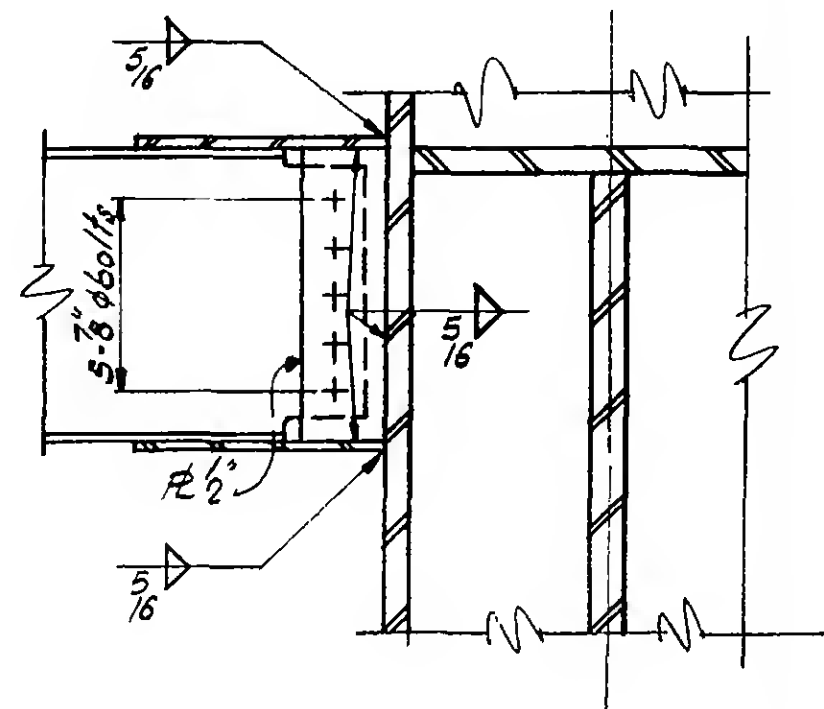
DATE

9-15-67

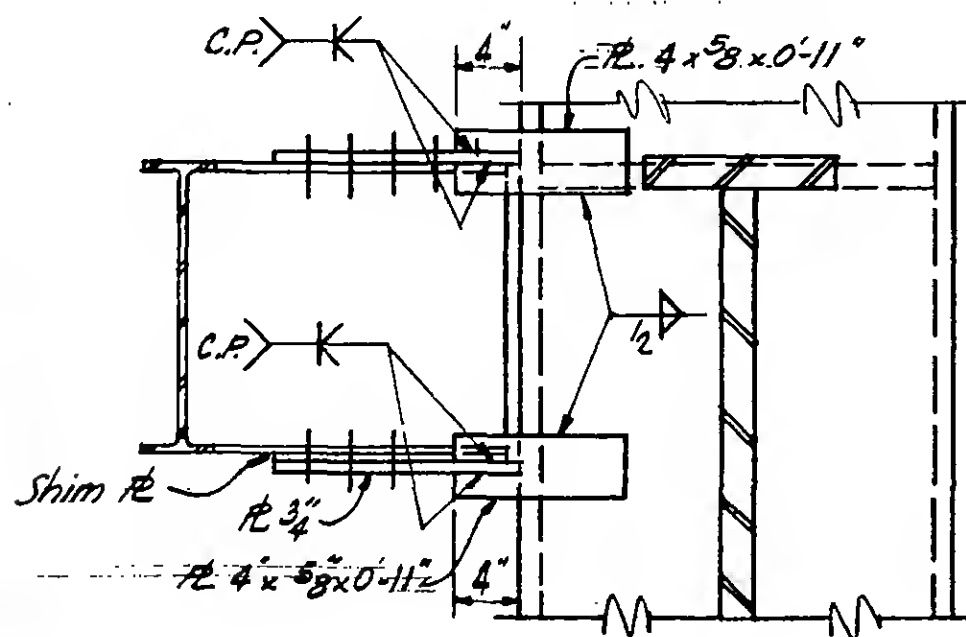
REVISIONS



PLAN



Section c-c

Section a-a
Section b-b, Opp. hand

PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 853A

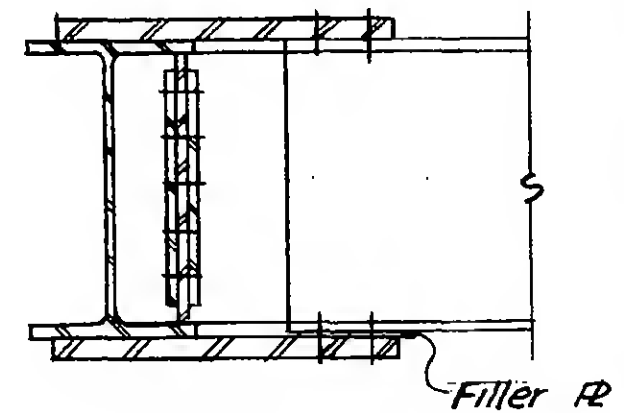
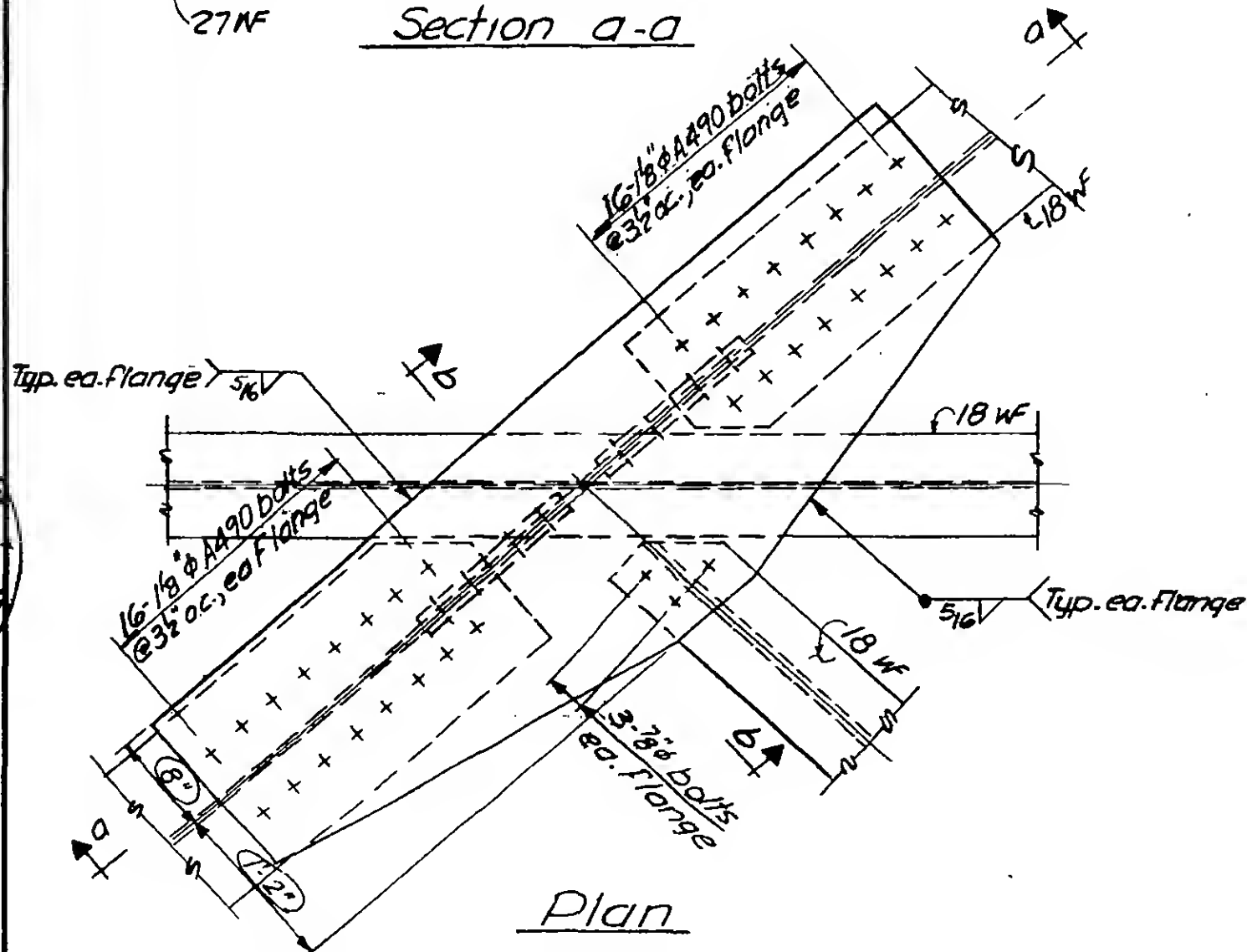
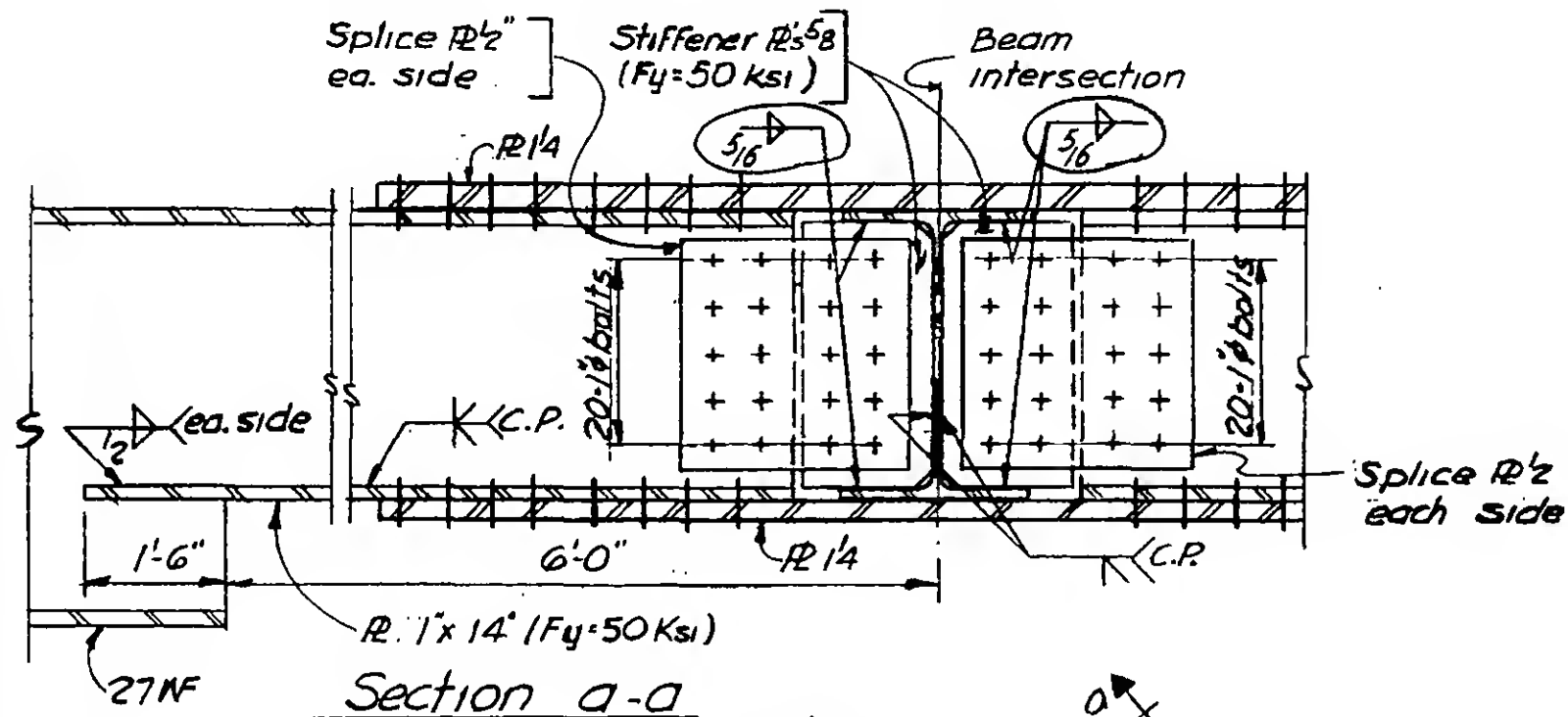
DATE

7-14-67

REVISIONS

9-29-67

10-31-67



Section b-b



PROJECT

THE WORLD TRADE CENTER

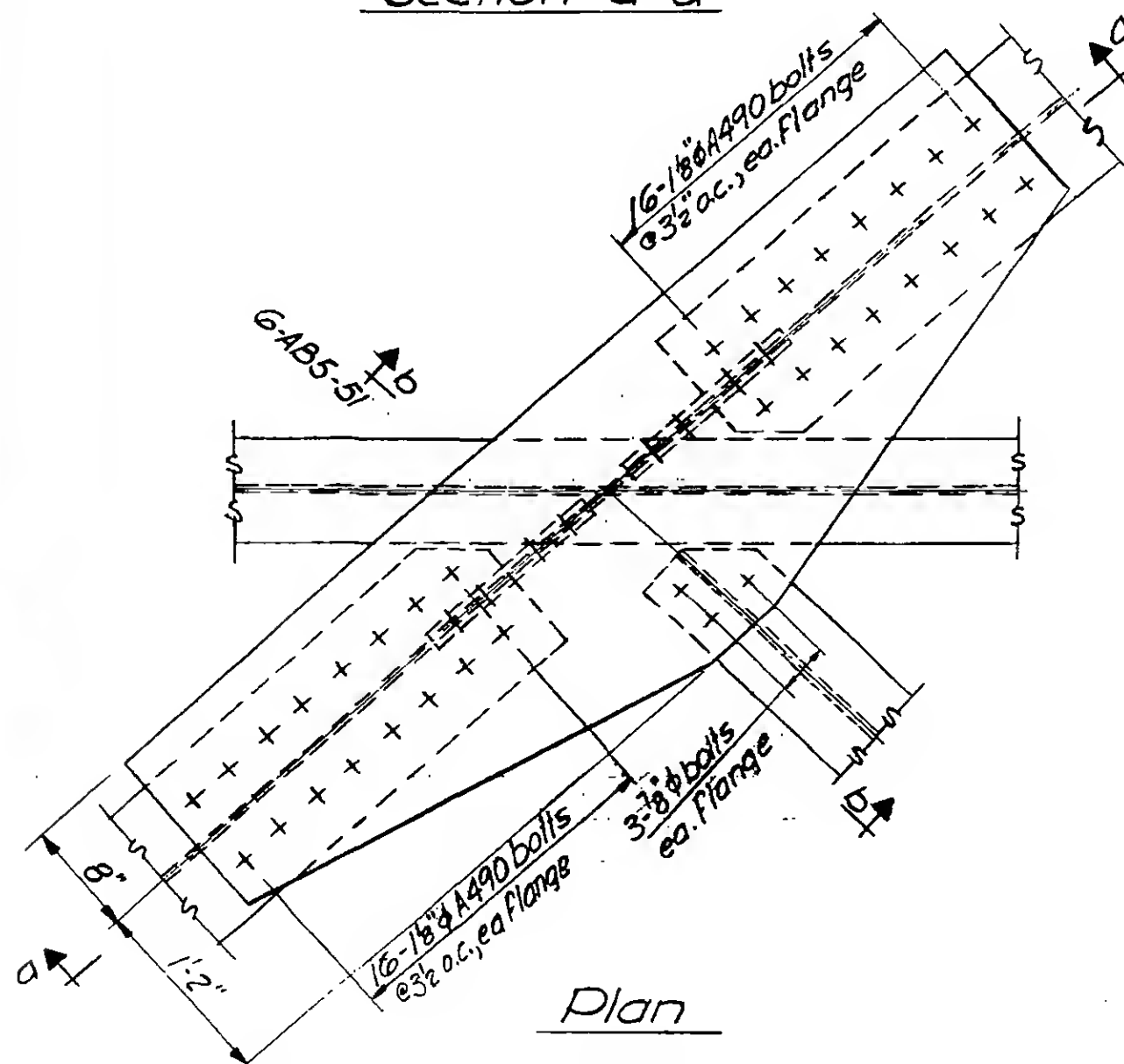
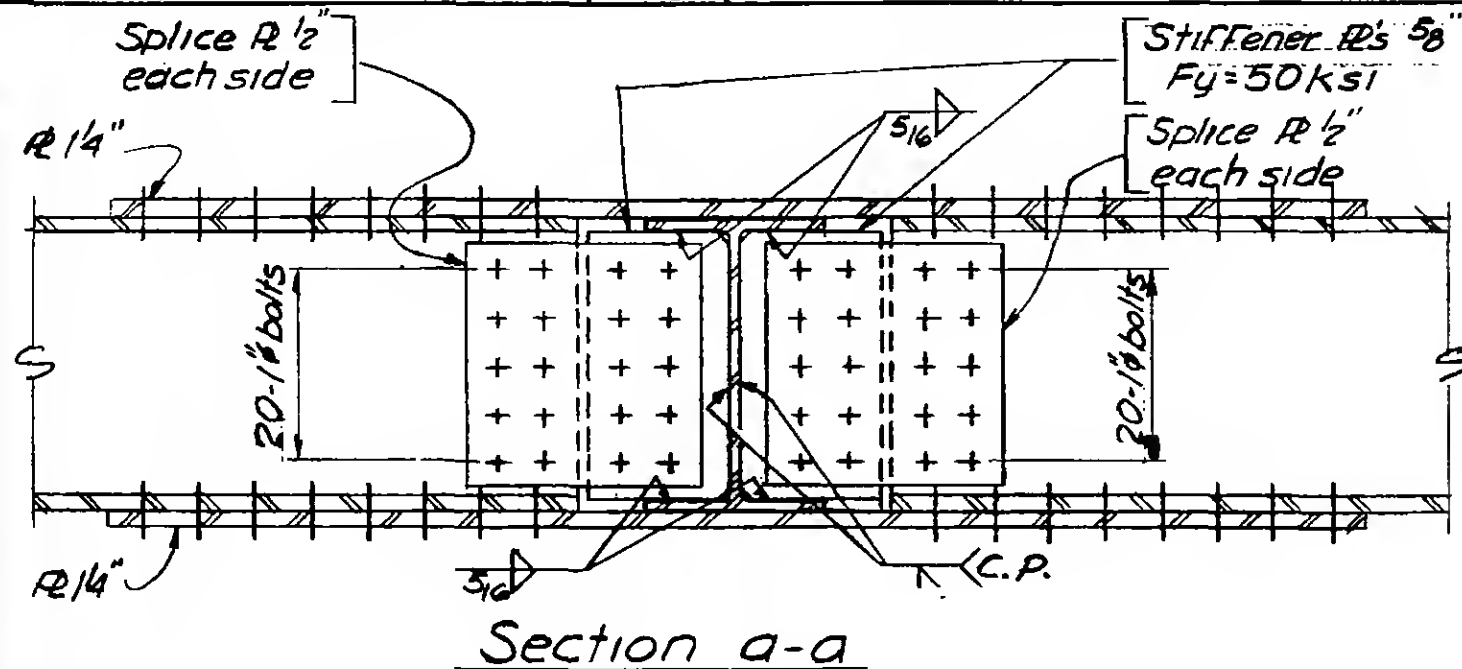
TITLE

CONNECTION DETAIL 853 B

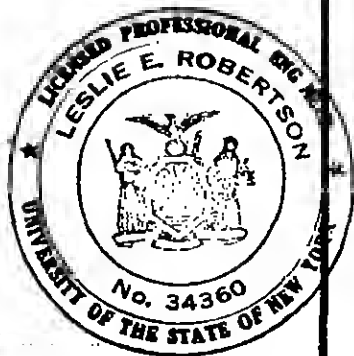
DATE

9-29-67

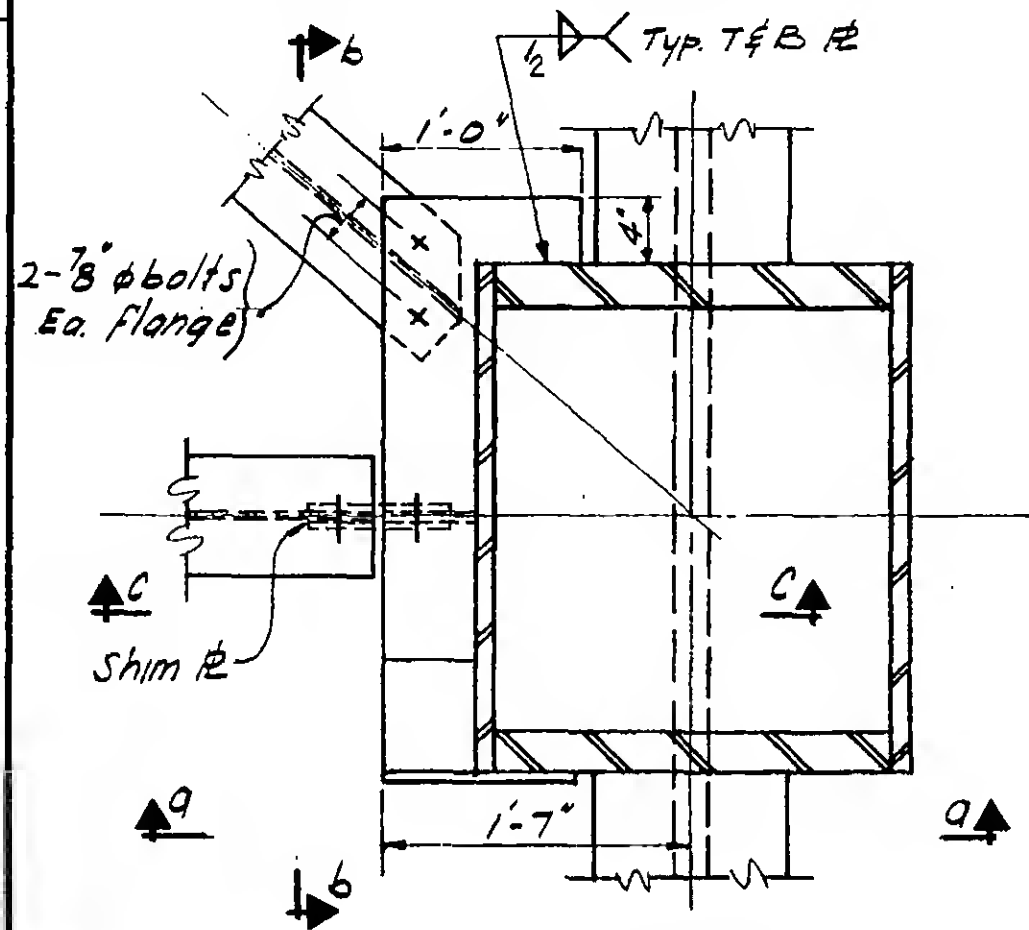
REVISIONS



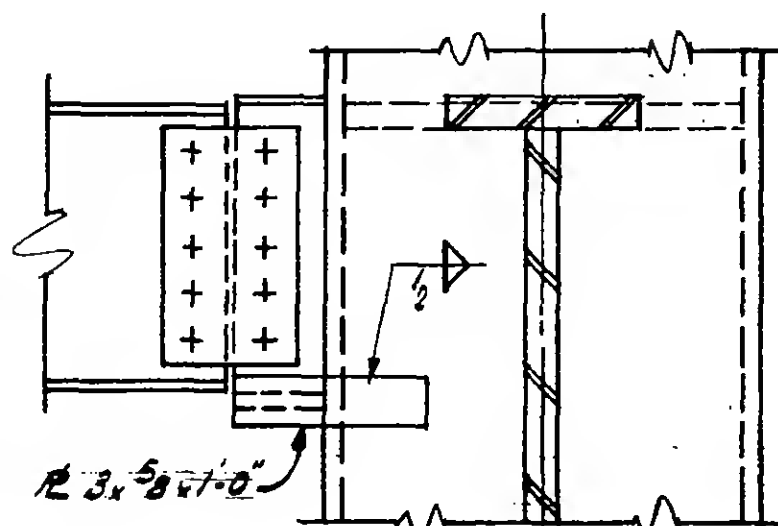
6-AB5-51.1



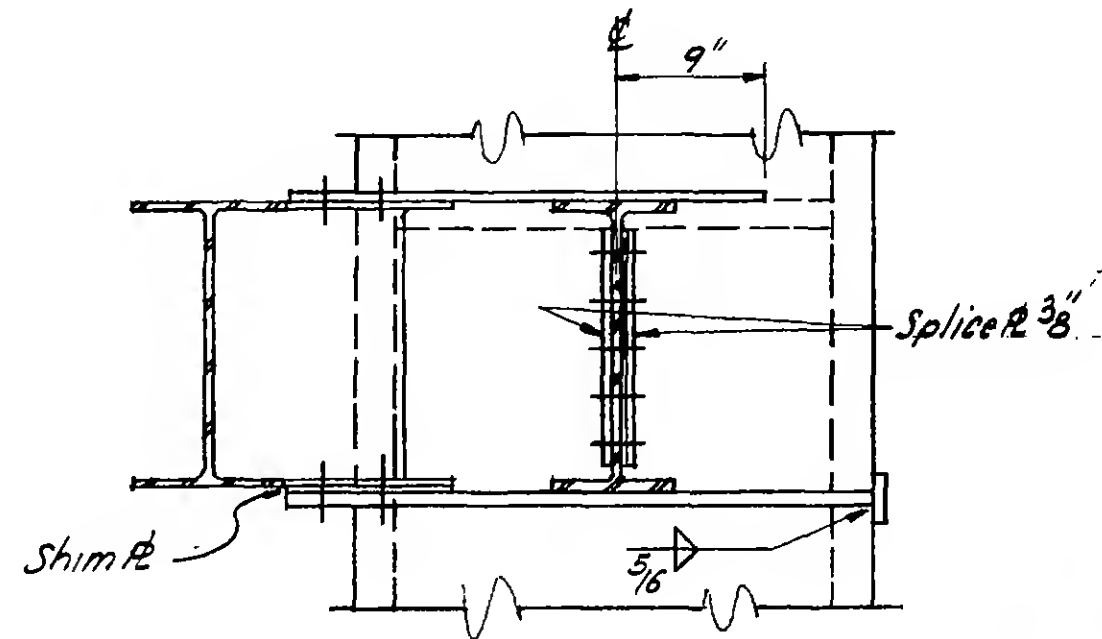
REVISIONS



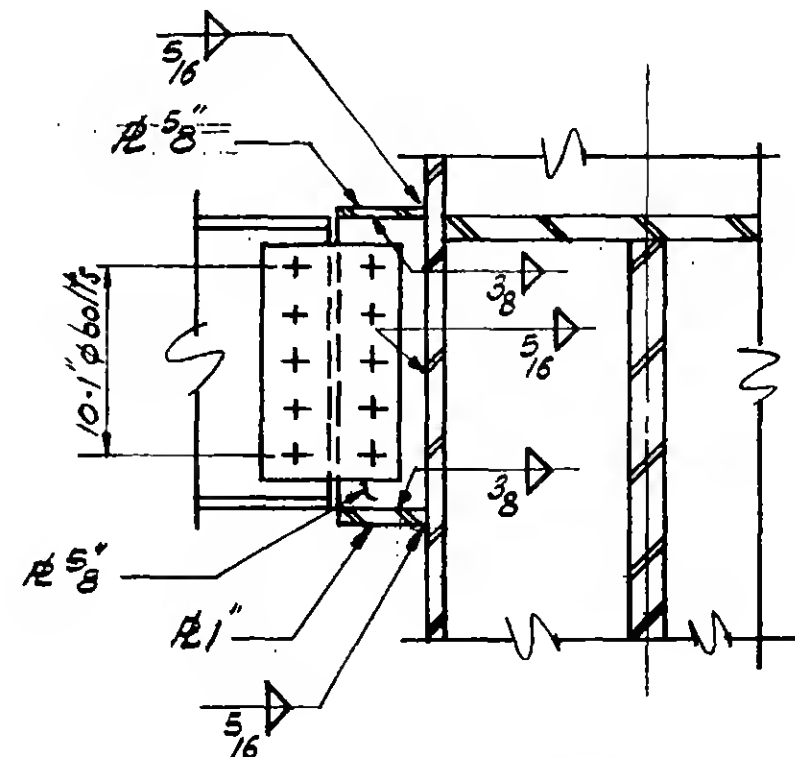
PLAN



Section a-a



Section b-b

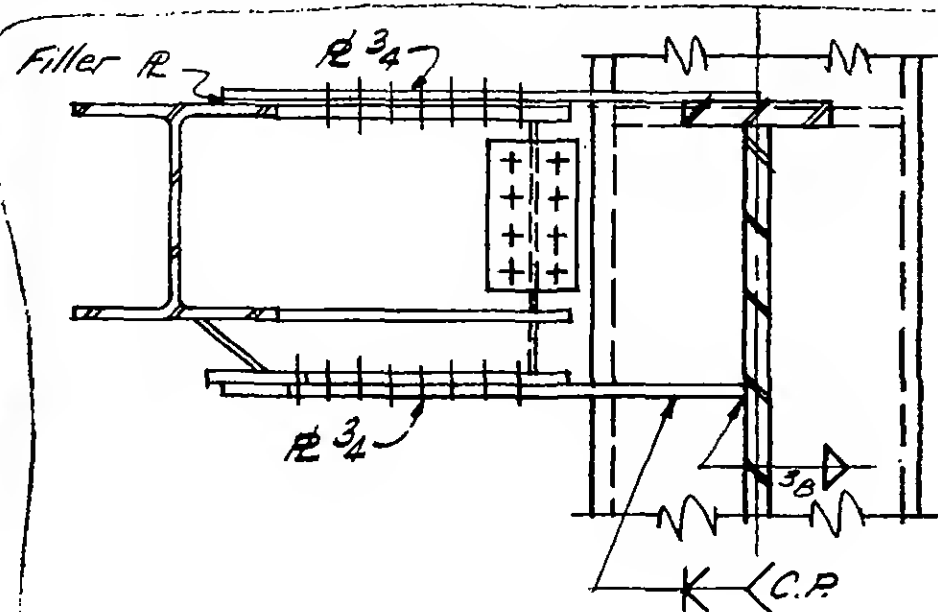


Section c-c

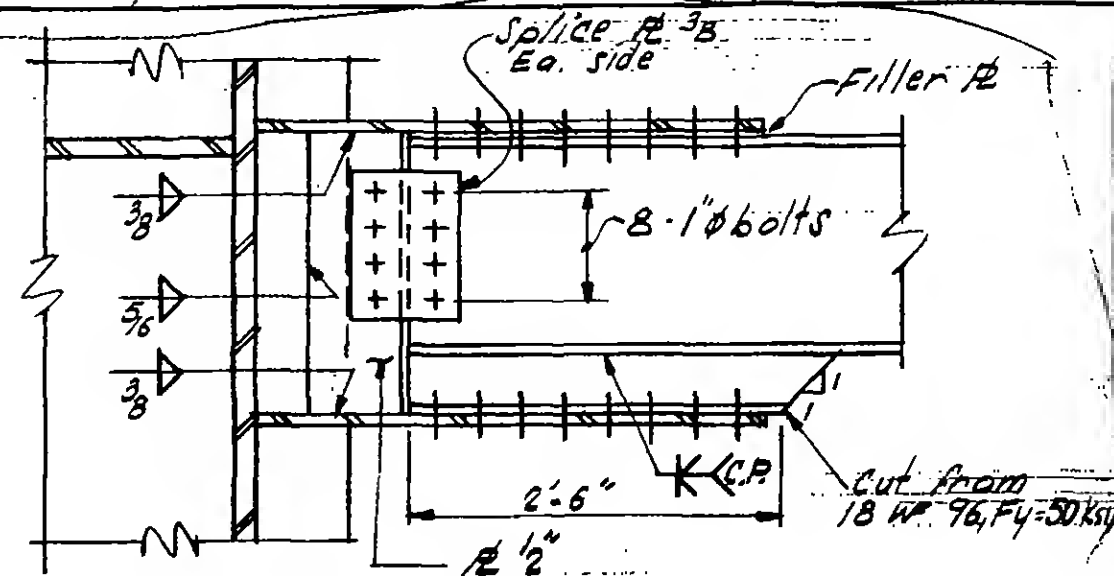


REVISIONS

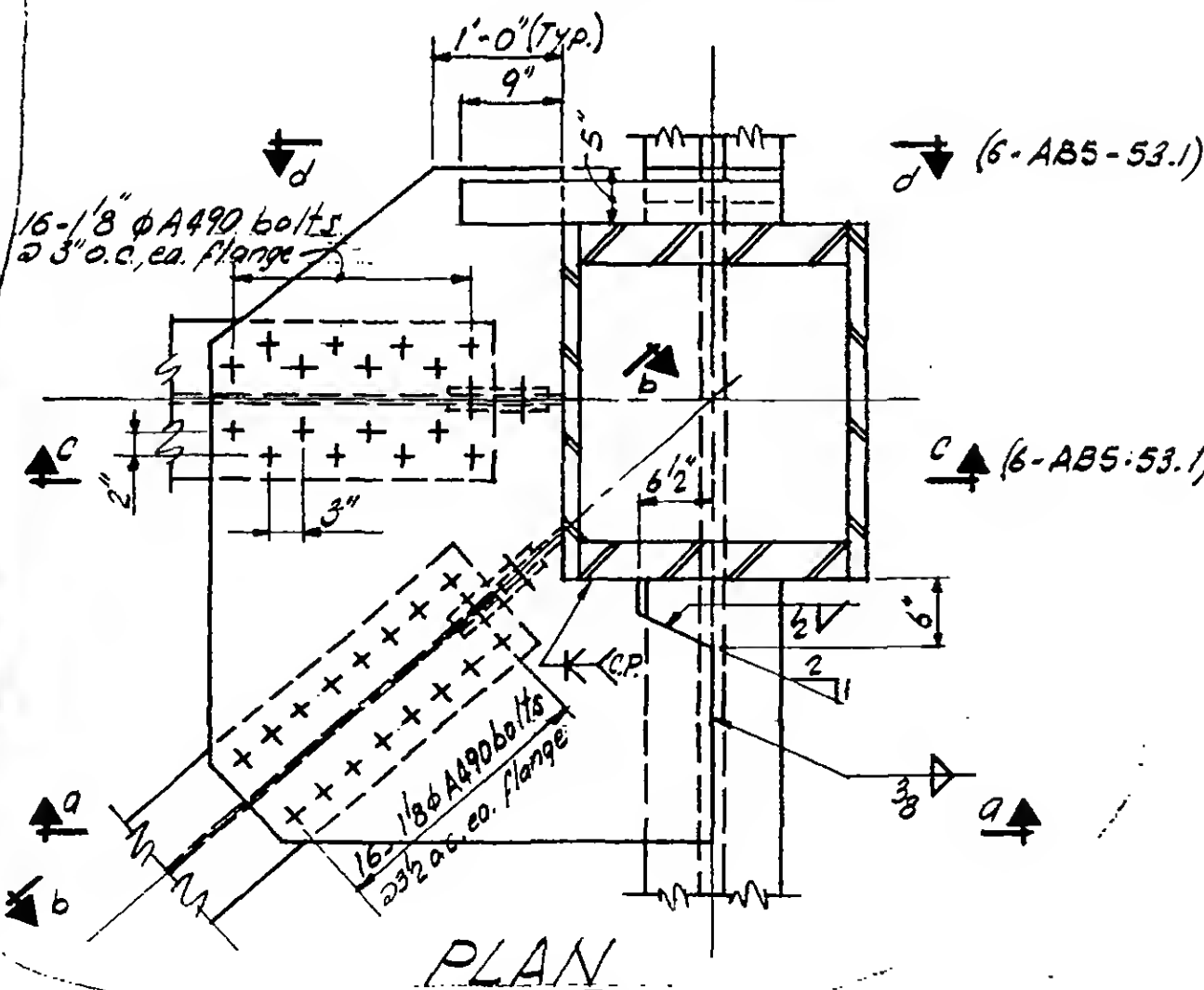
9-15-67



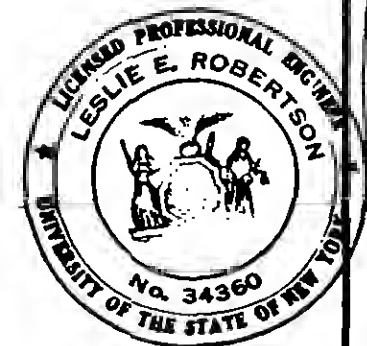
Section a-a



Section b-b



PLAN



PROJECT

THE WORLD TRADE CENTER

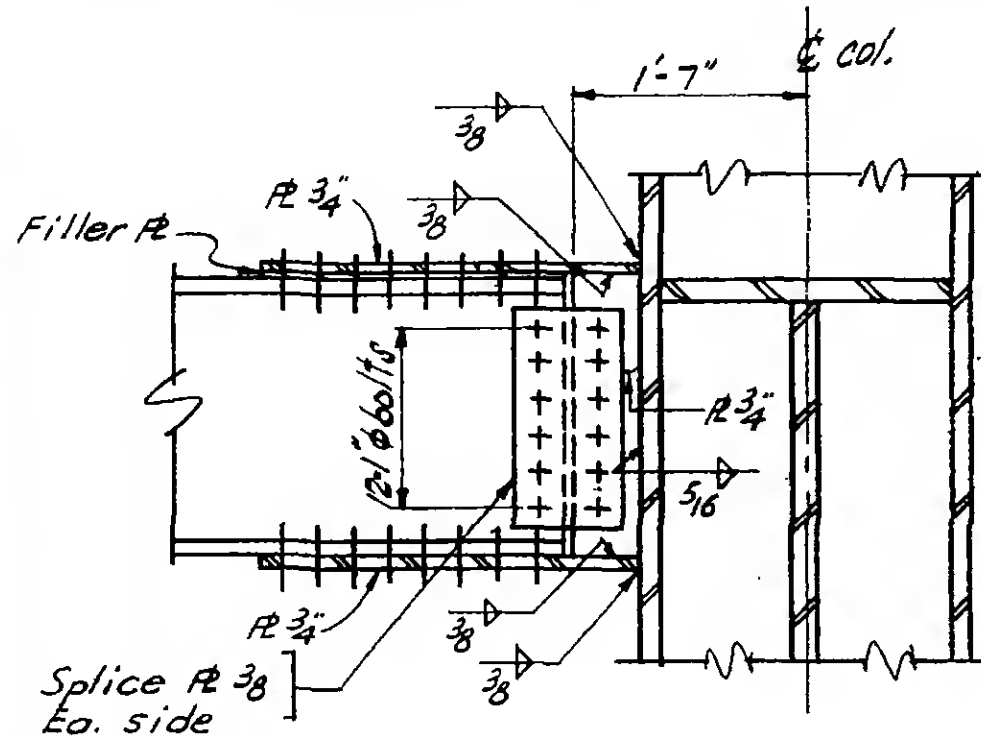
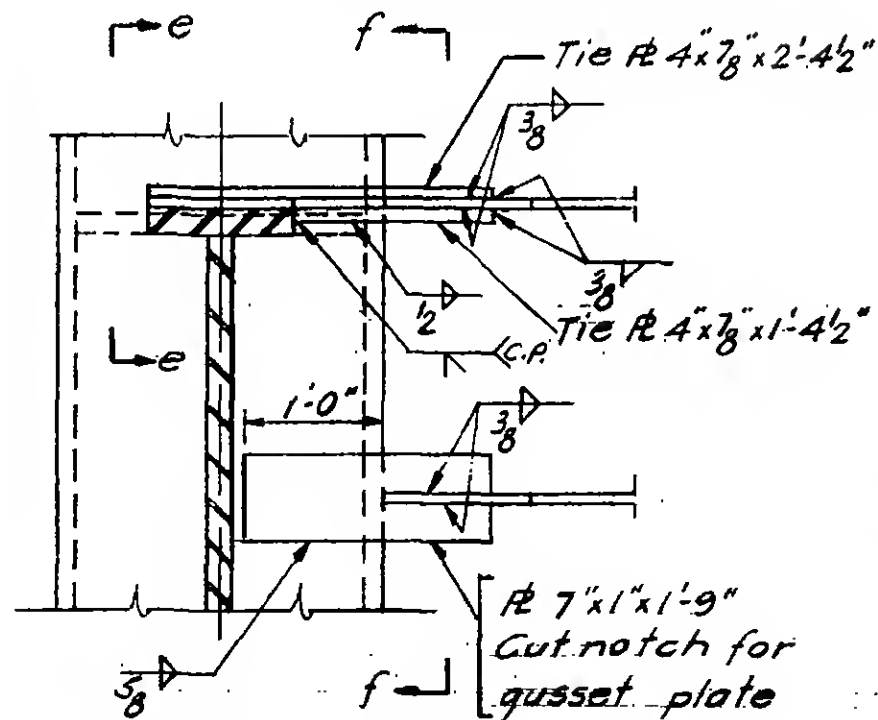
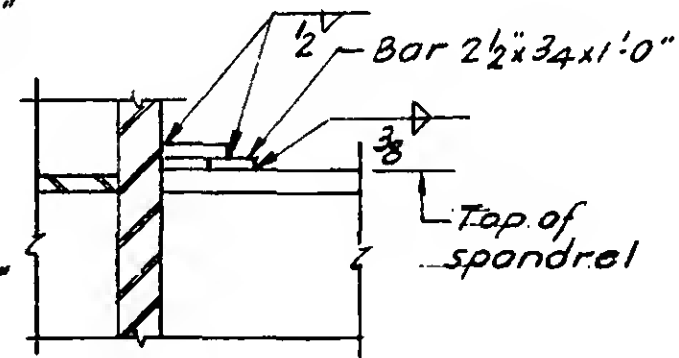
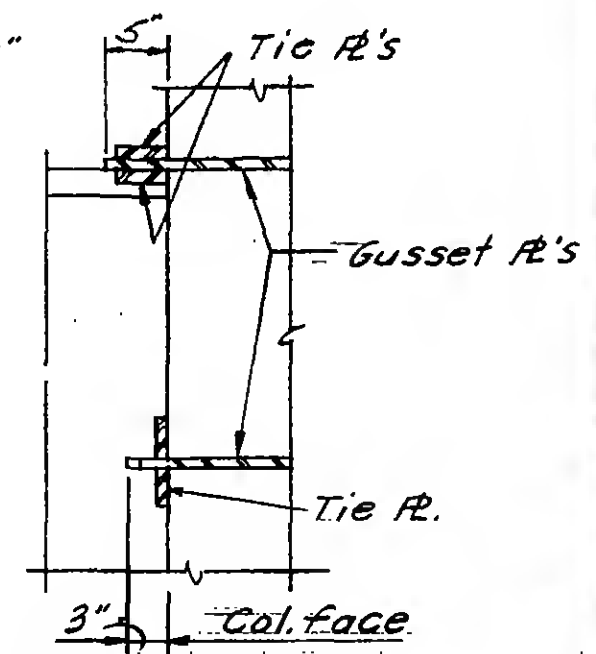
TITLE

CONNECTION DETAIL 855 A & B

DATE

9-15-67

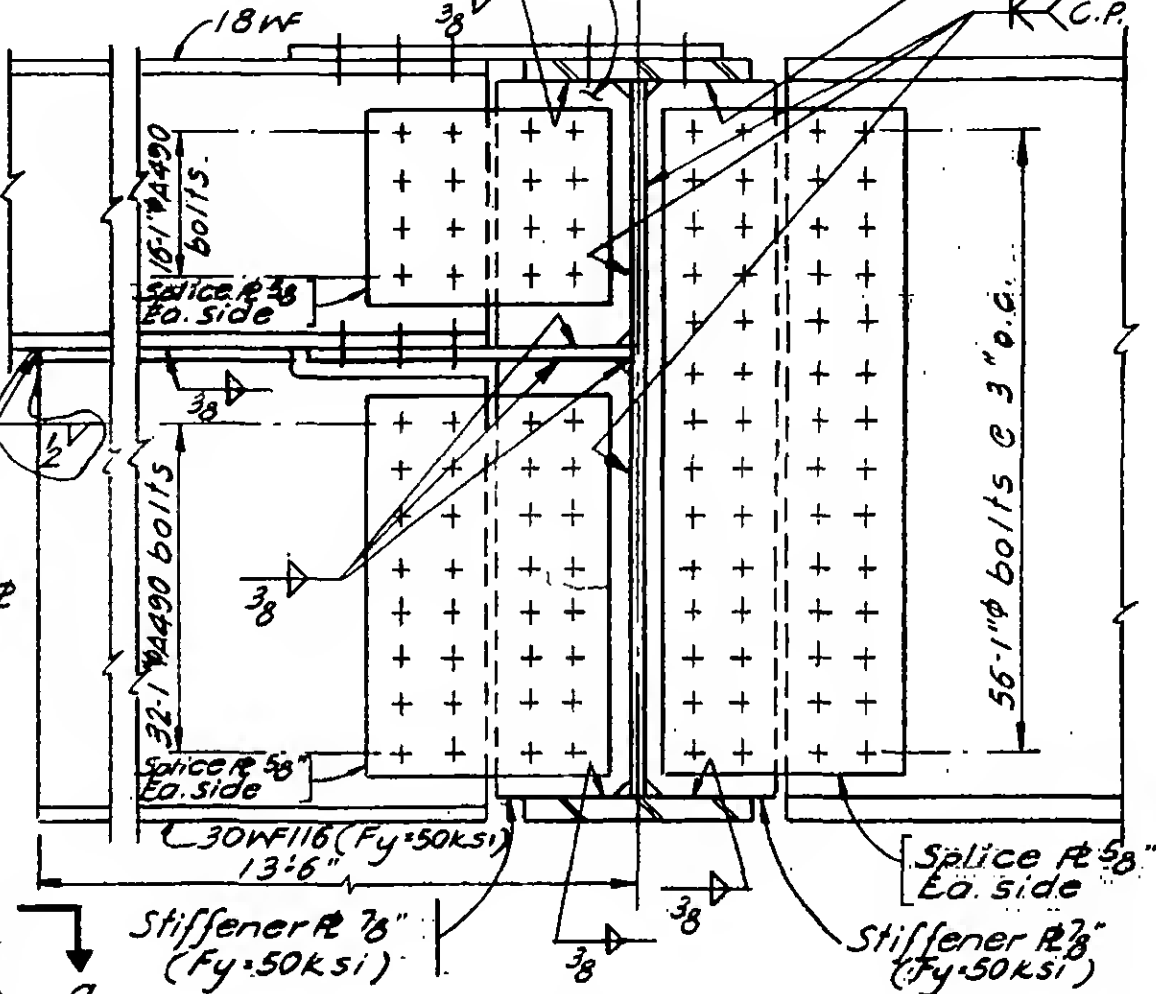
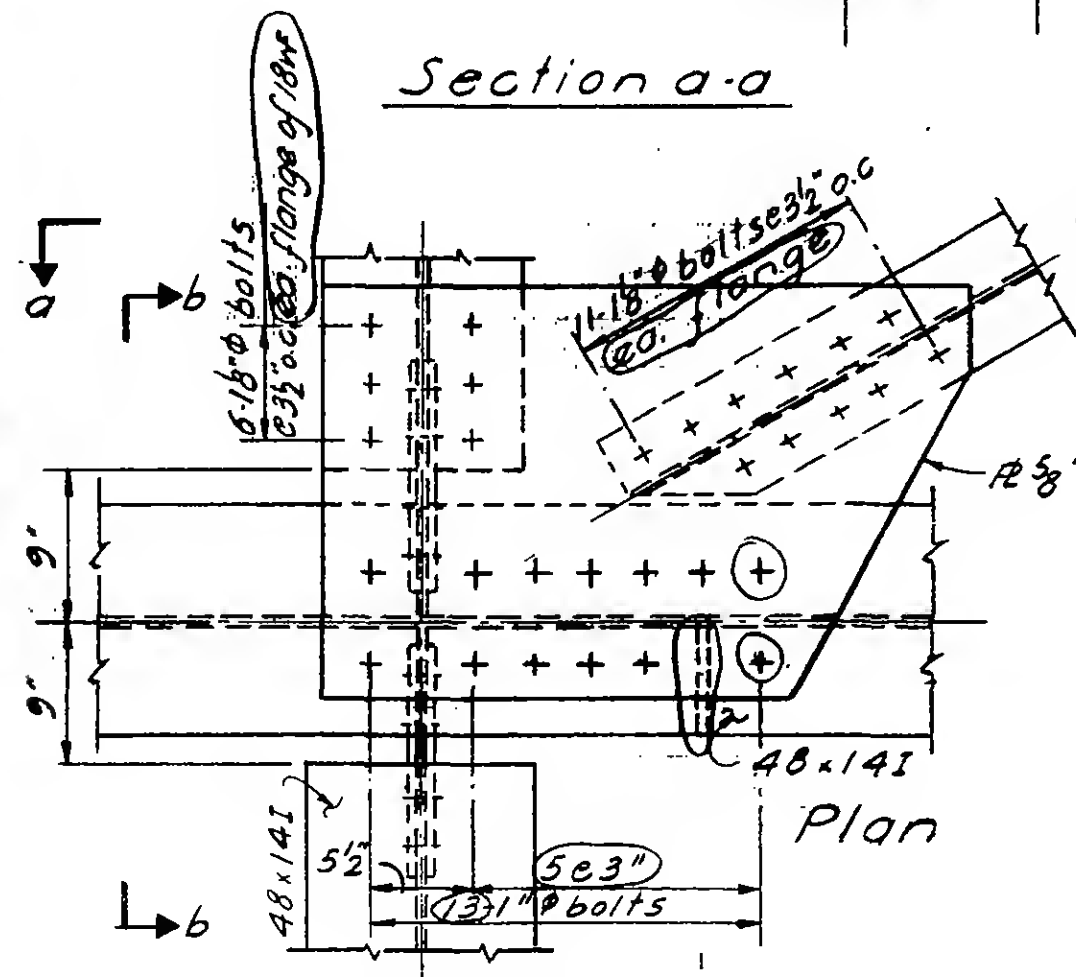
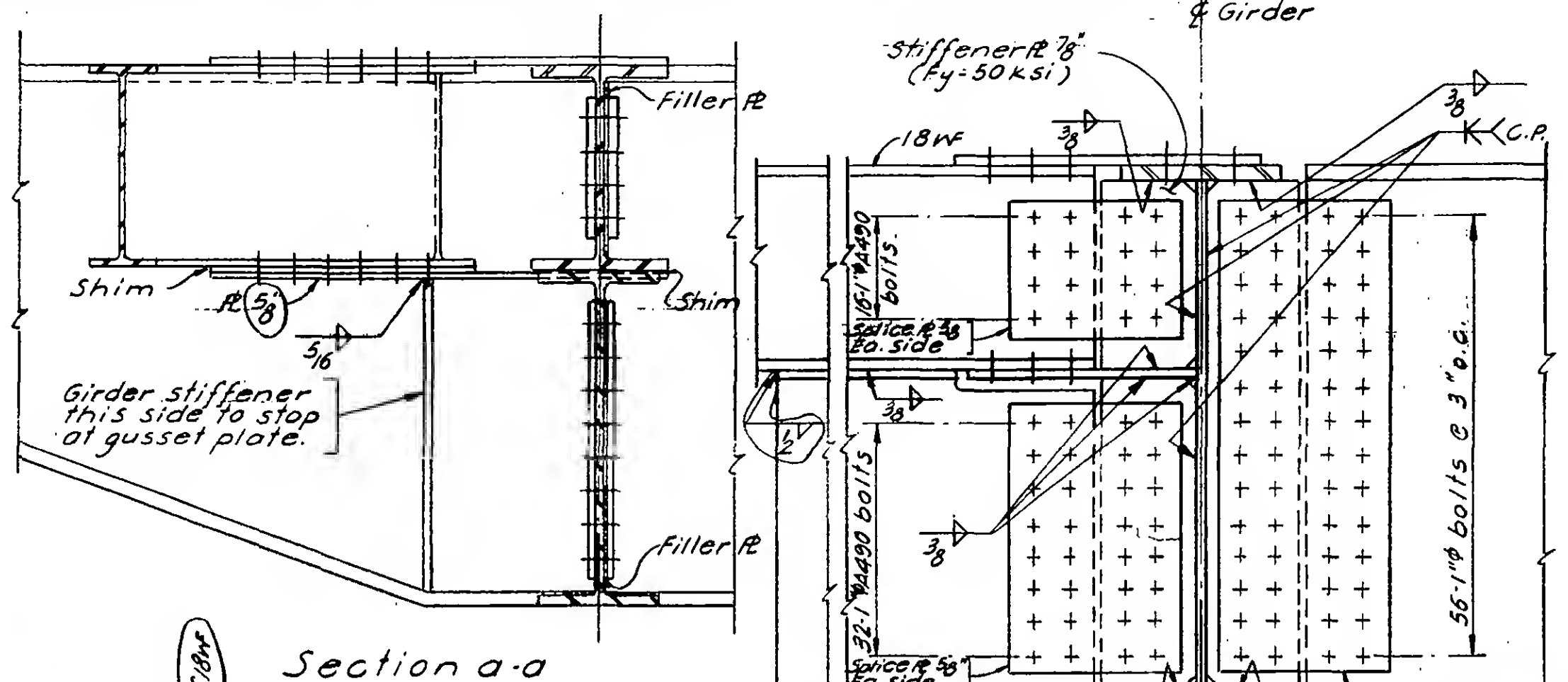
REVISIONS

Section C-CSection d-dSection e-eSection f-f

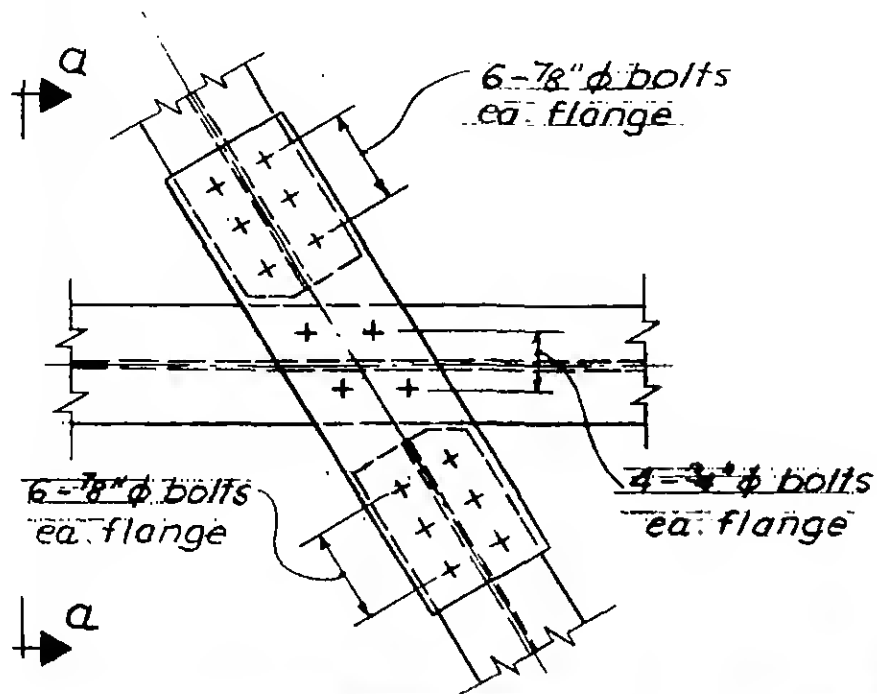
REVISIONS

9-29-67

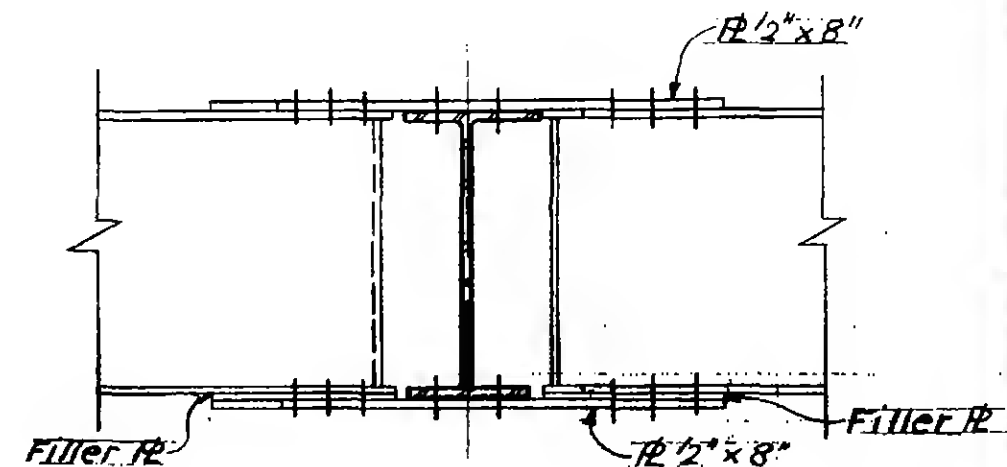
10-31-67



REVISIONS

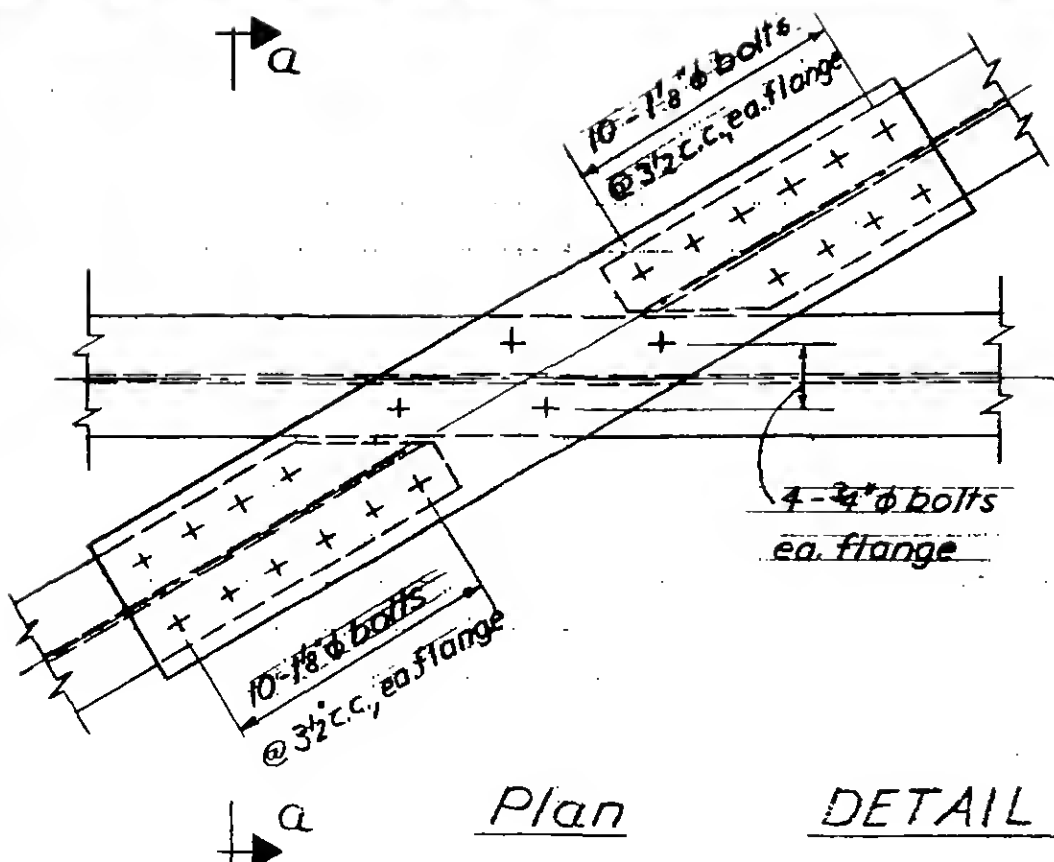


Plan

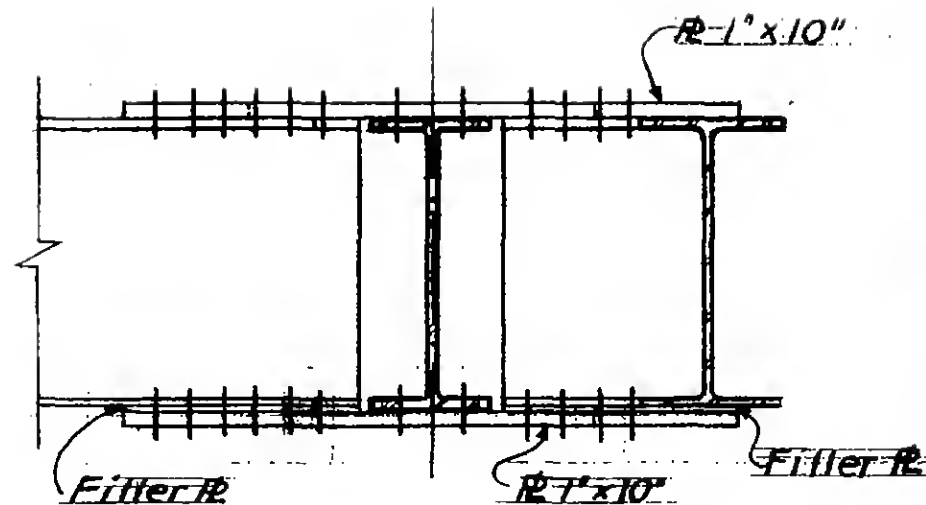


Section a-a

DETAIL 857 A



Plan



Section a-a

DETAIL 857 B & C



PROJECT

THE WORLD TRADE CENTER

TITLE

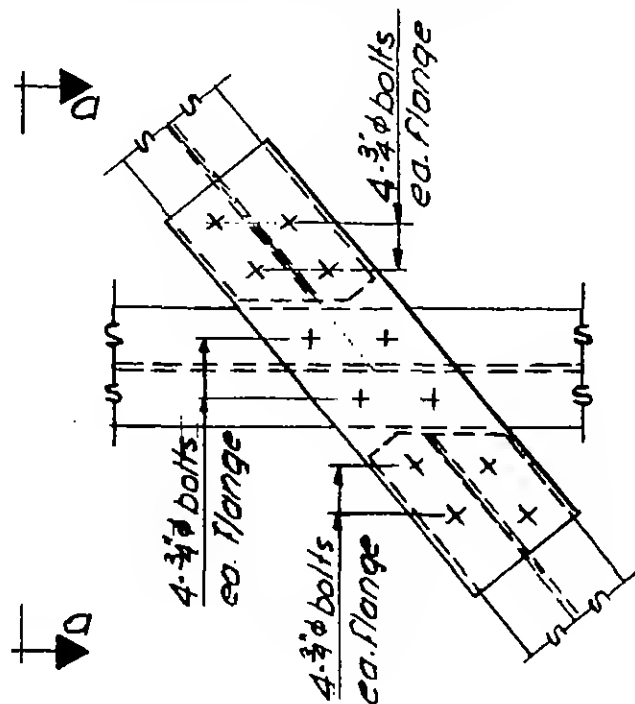
CONNECTION DETAIL 857 D, E & F

DATE

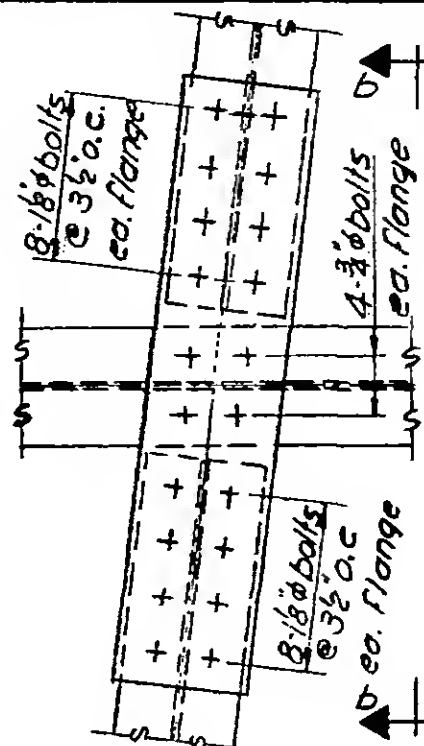
9-29-67

REVISIONS

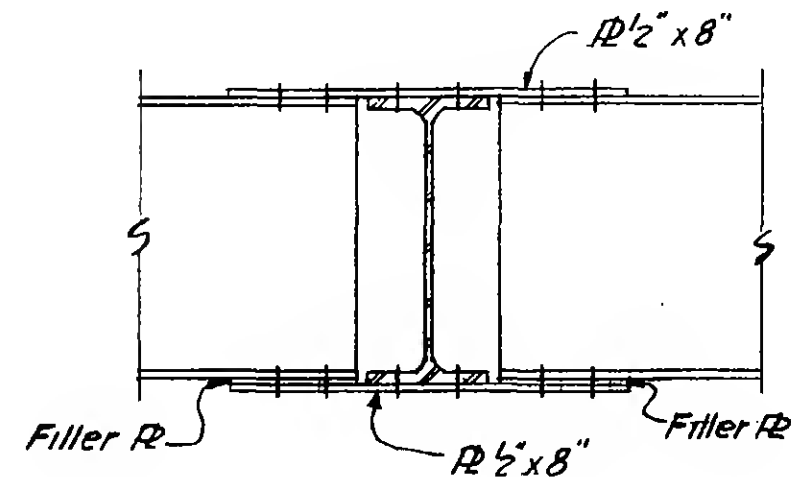
10/31/67



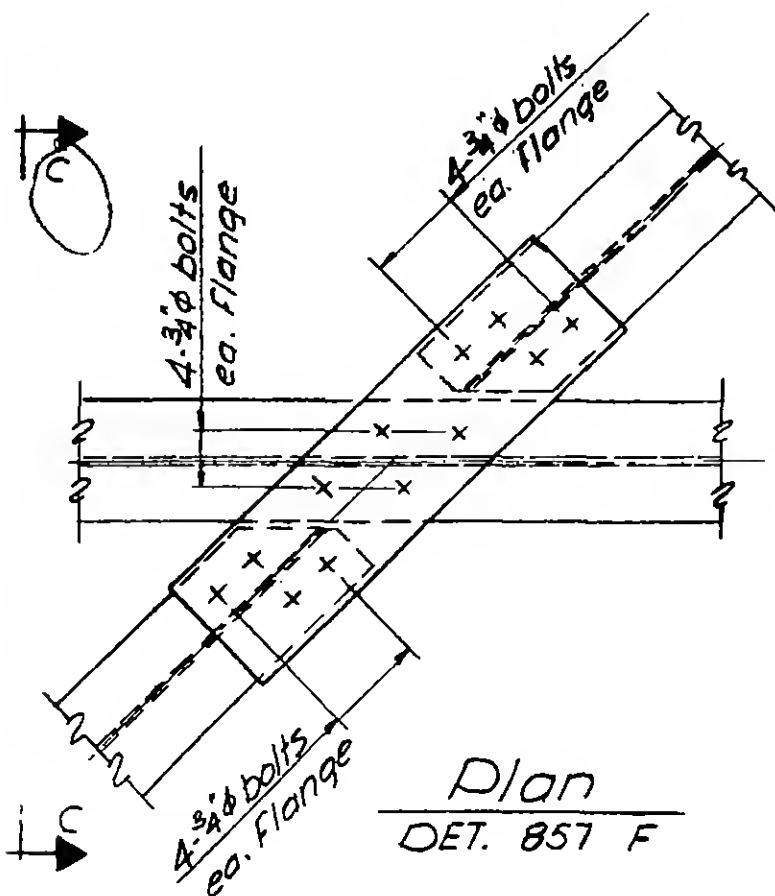
Plan
DET. 857 D



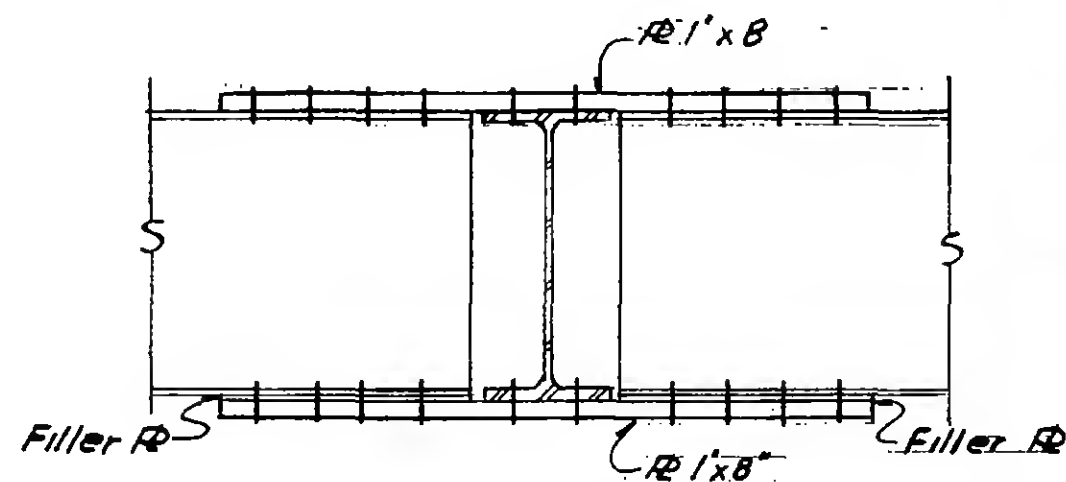
Plan
DET. 857 E



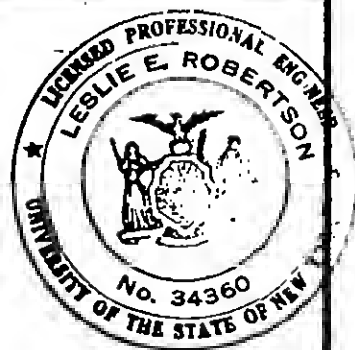
Section a-a
Section C-C, SIMILAR



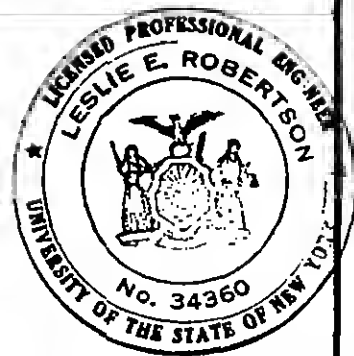
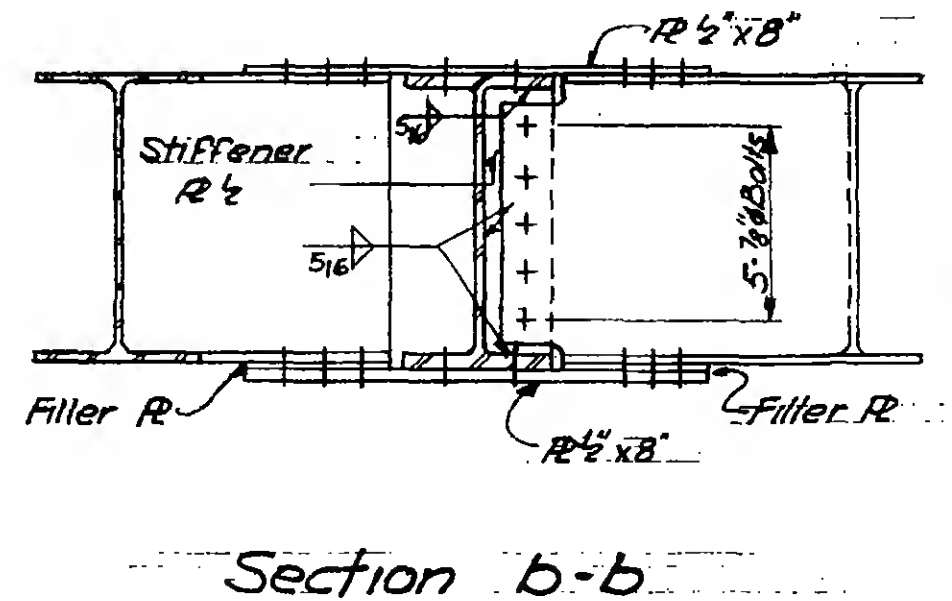
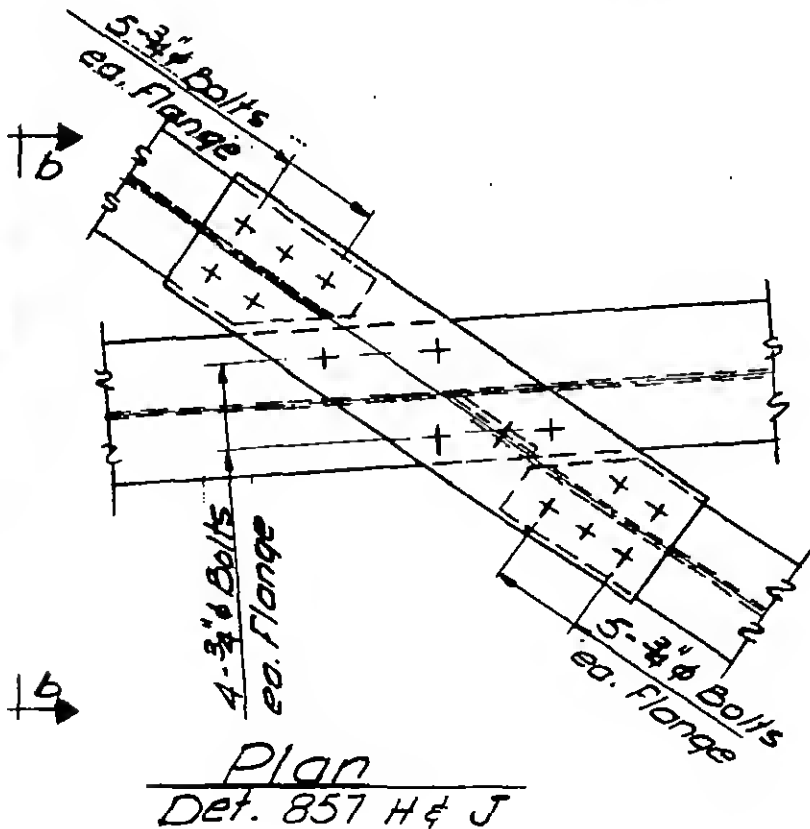
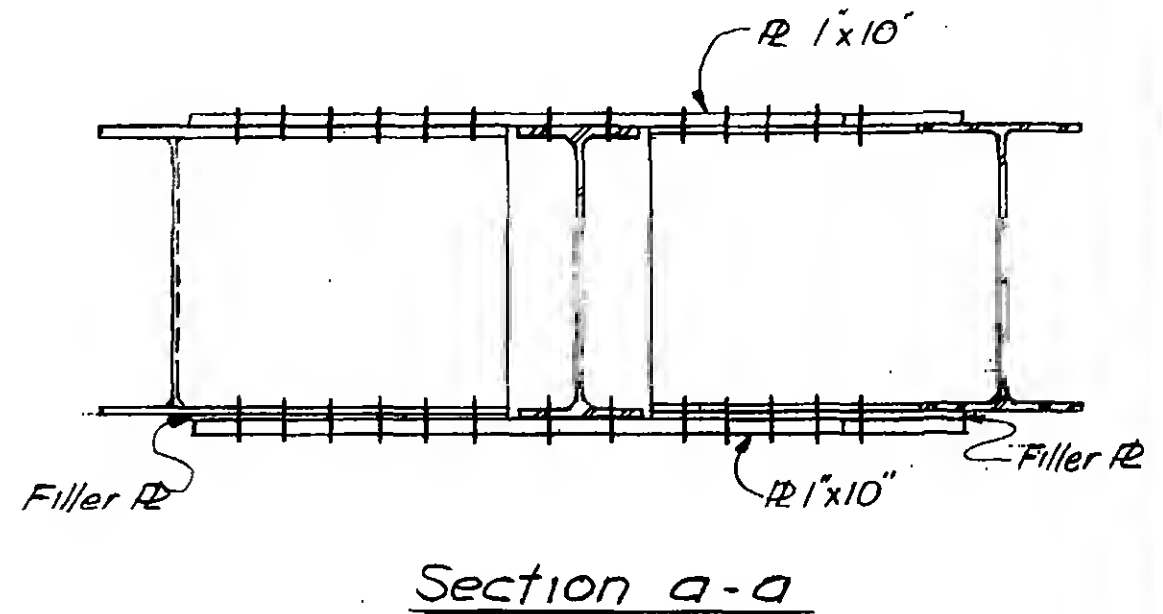
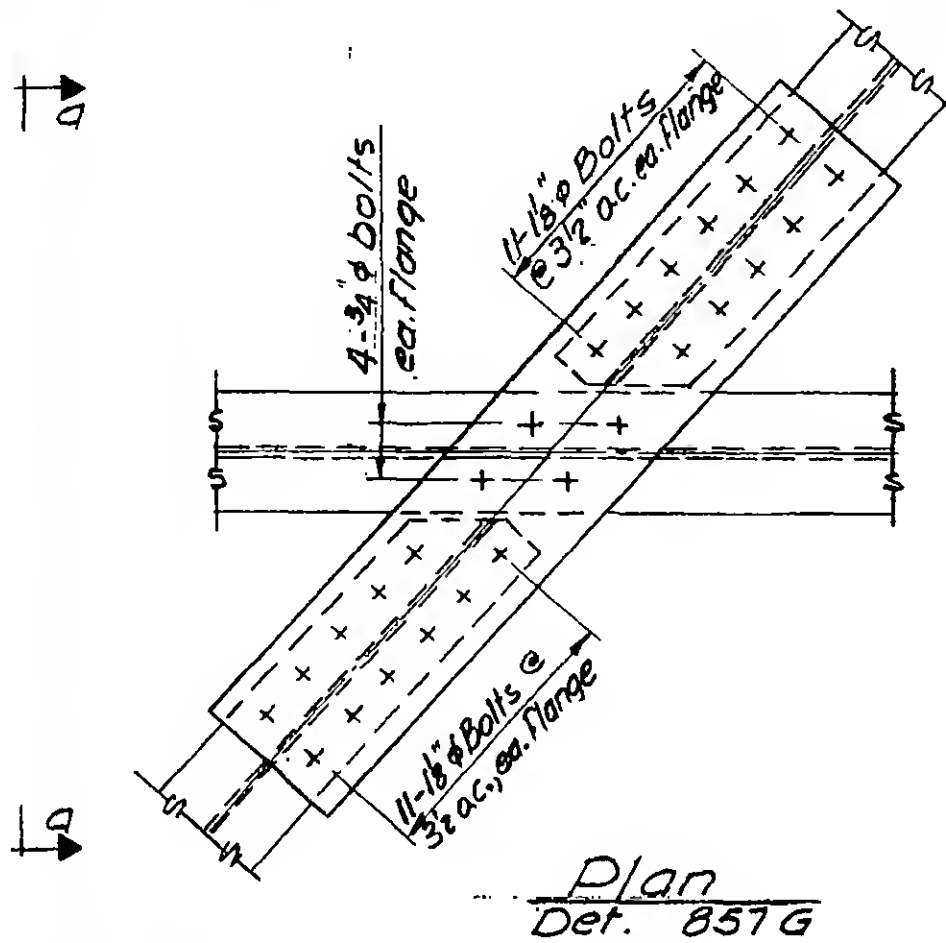
Plan
DET. 857 F



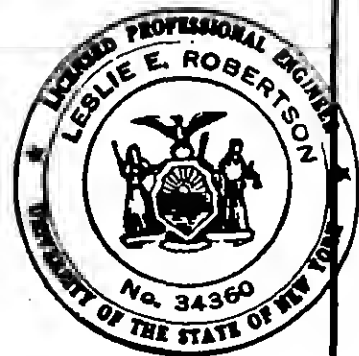
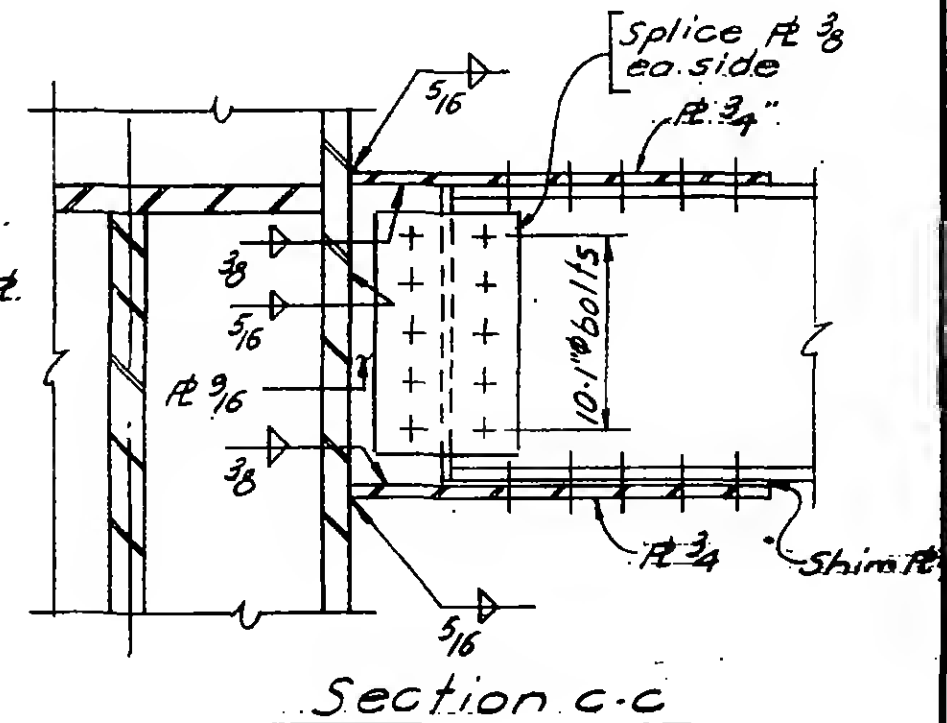
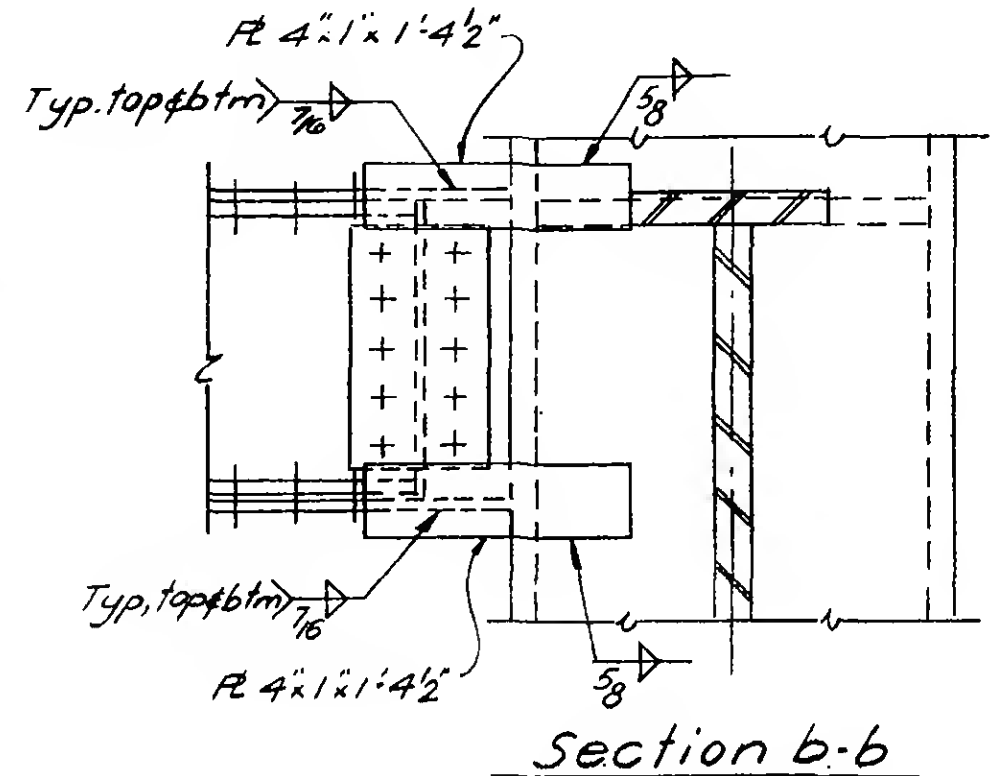
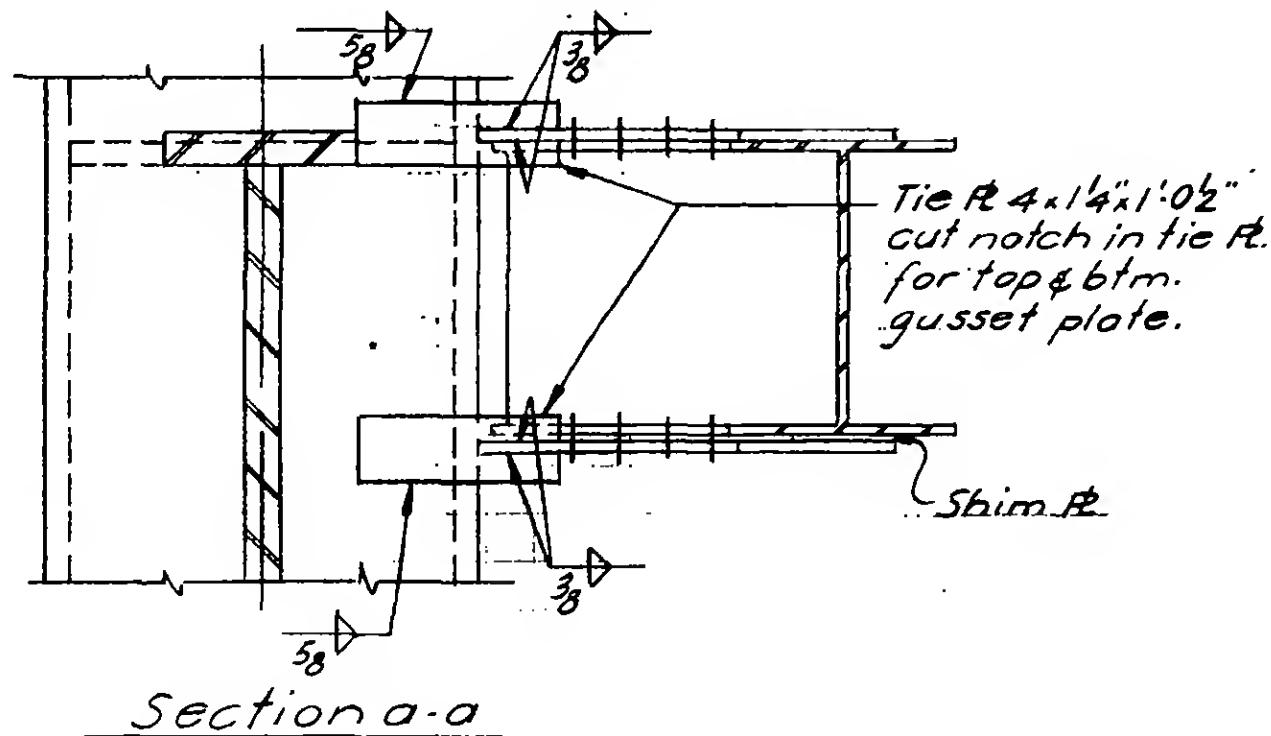
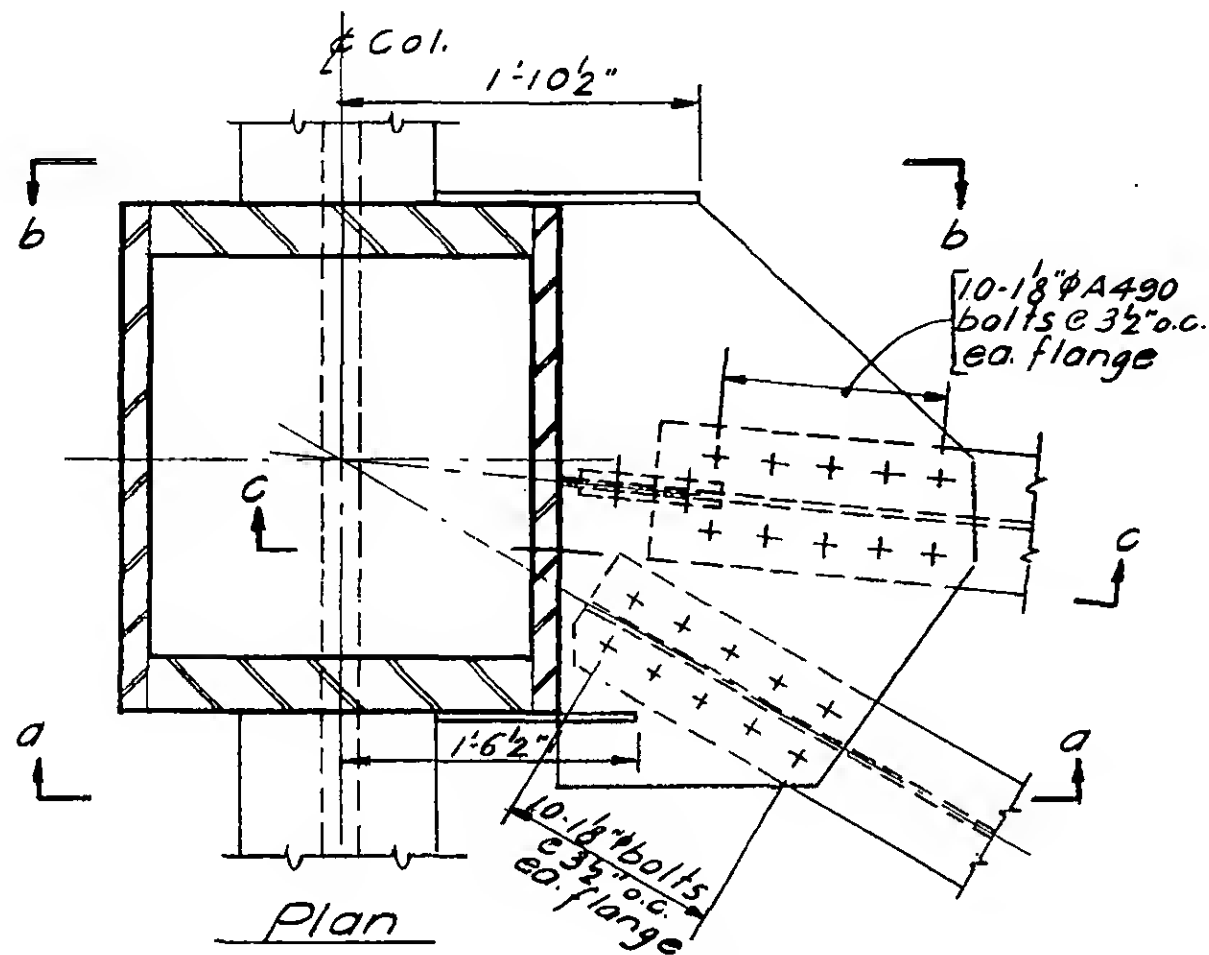
Section b-b



REVISIONS



REVISIONS



PROJECT

THE WORLD TRADE CENTER

TITLE

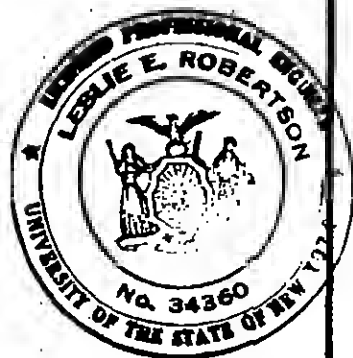
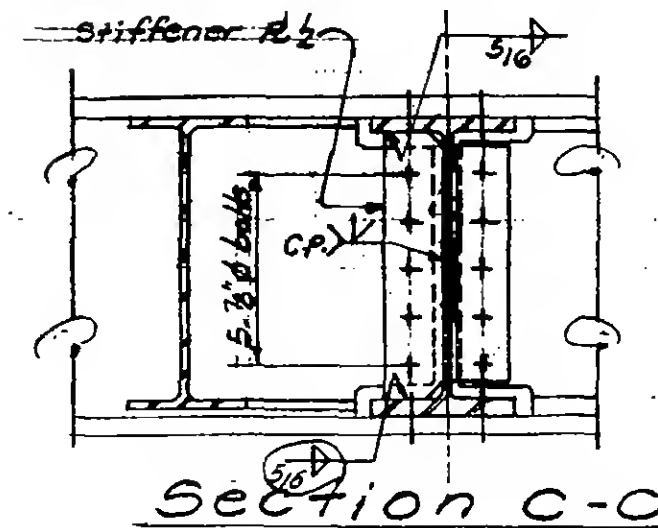
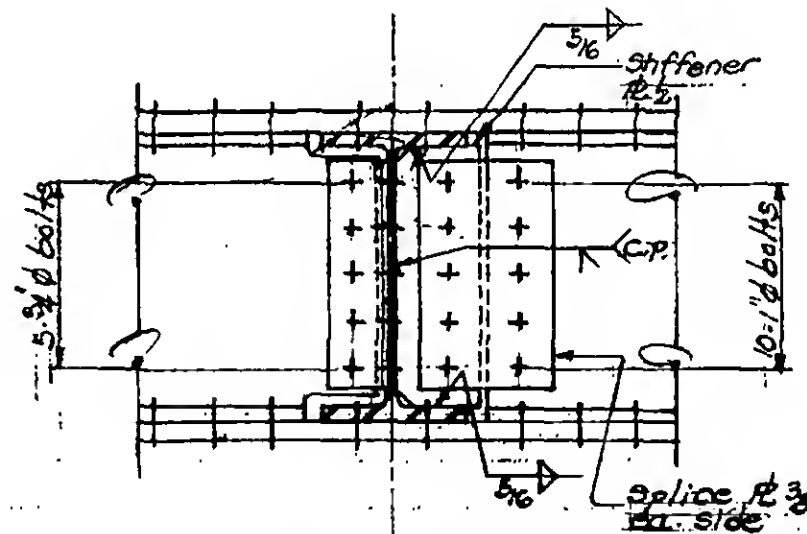
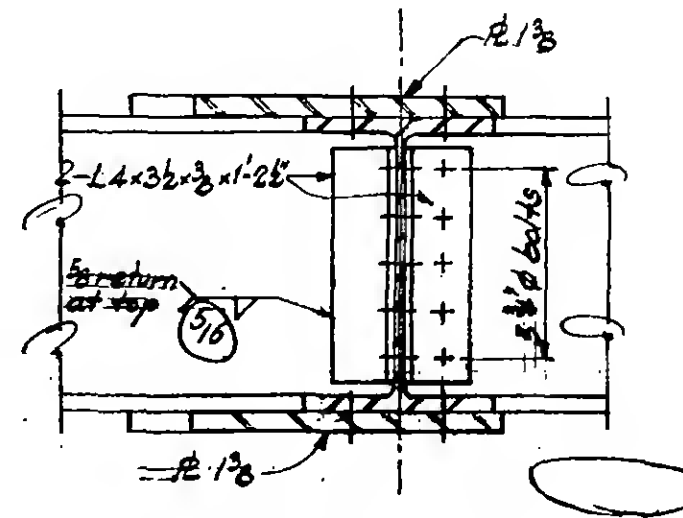
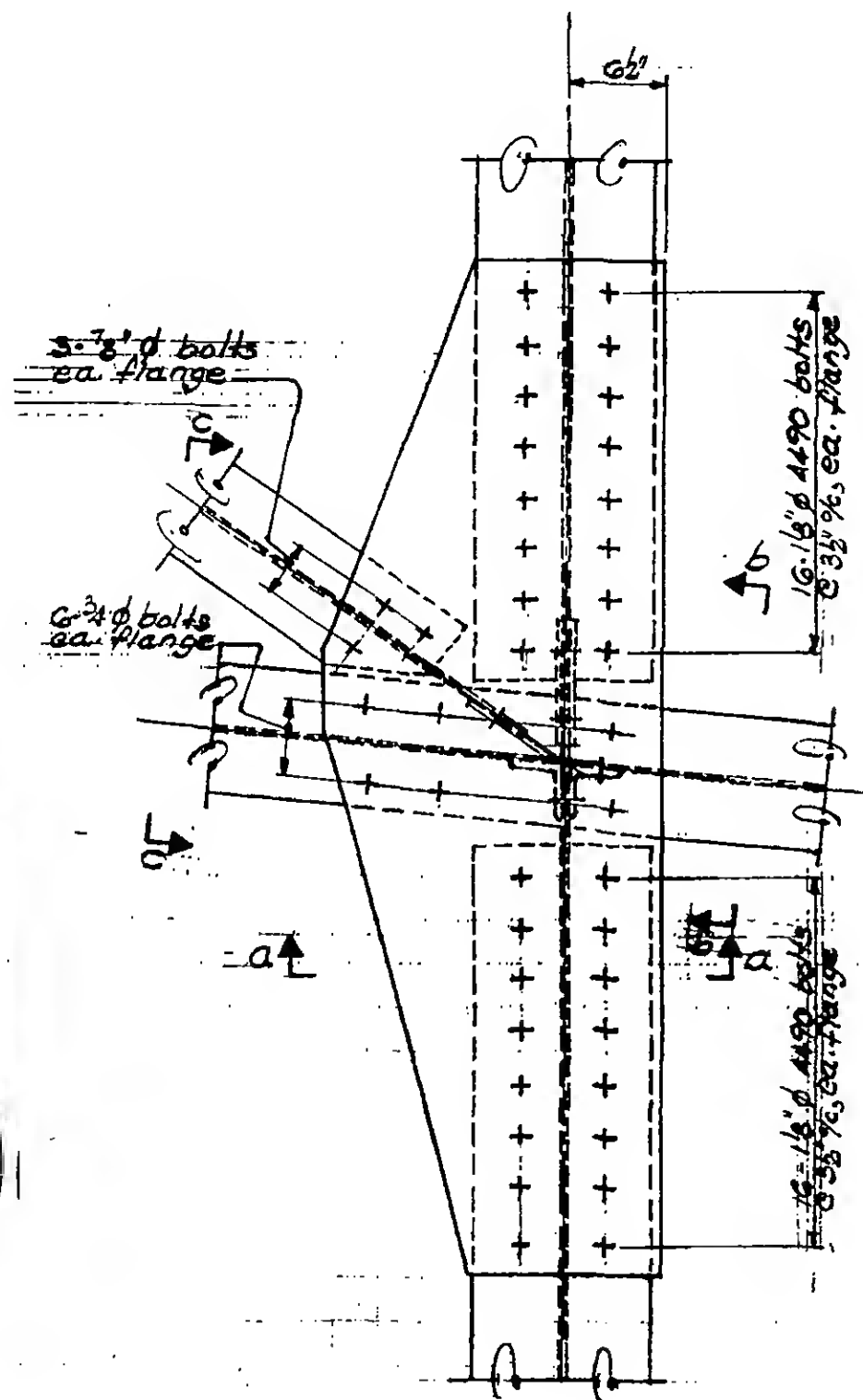
CONNECTION DETAIL 859A

DATE

9-29-67

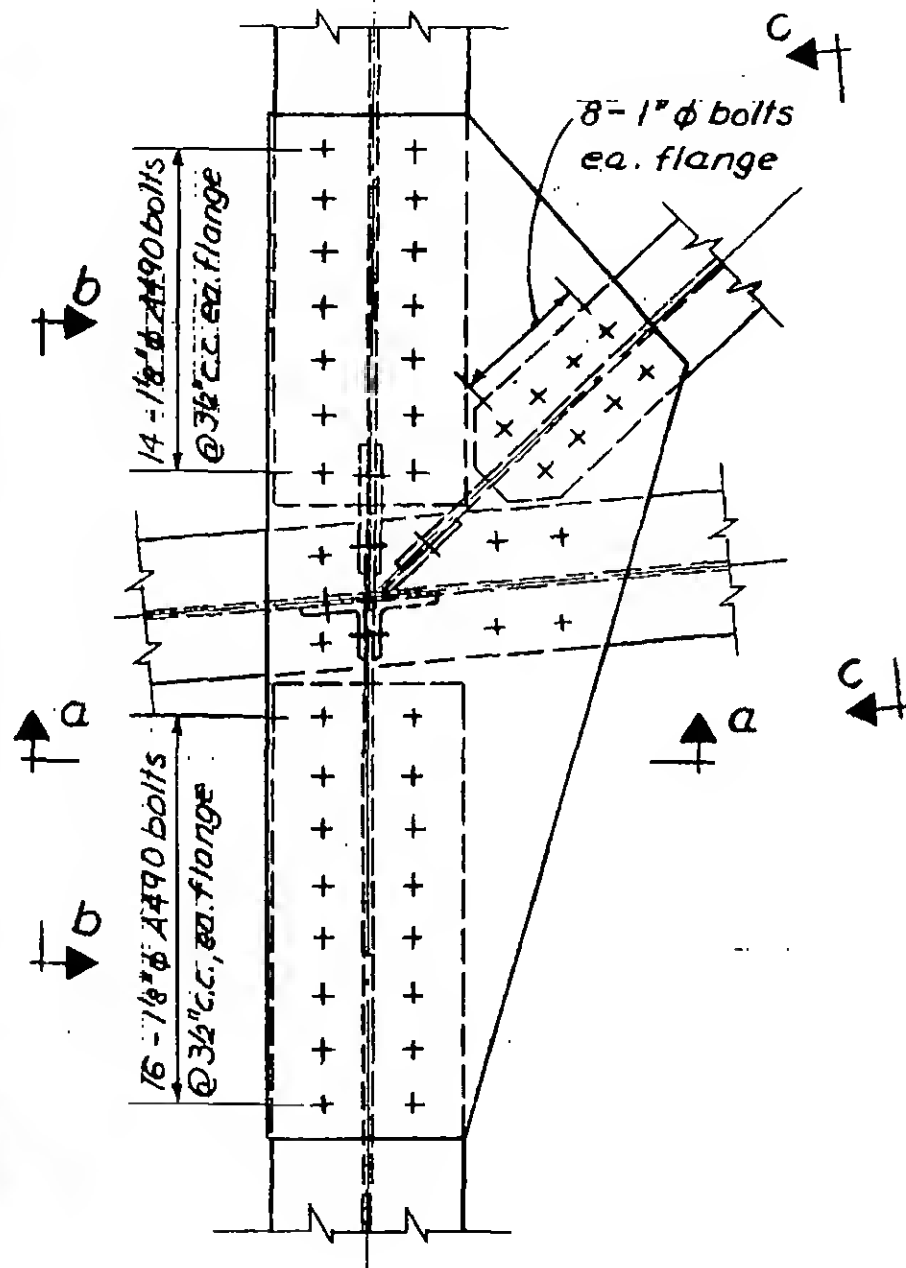
REVISIONS

10-31-67

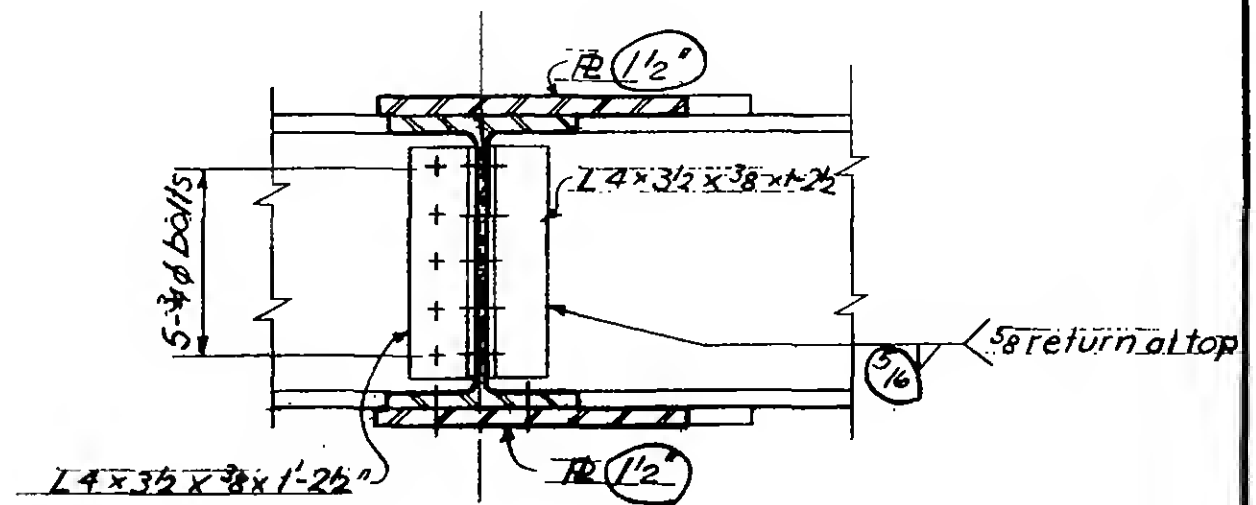


REVISIONS

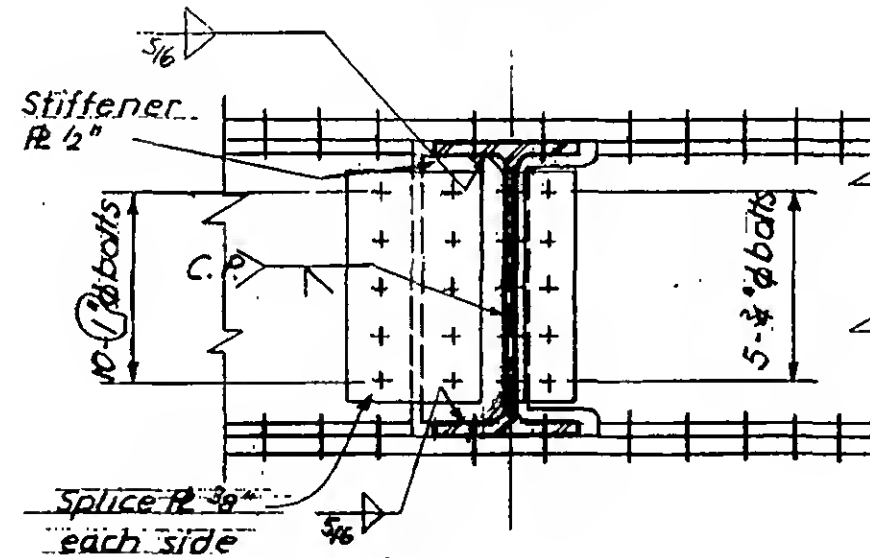
10-31-67



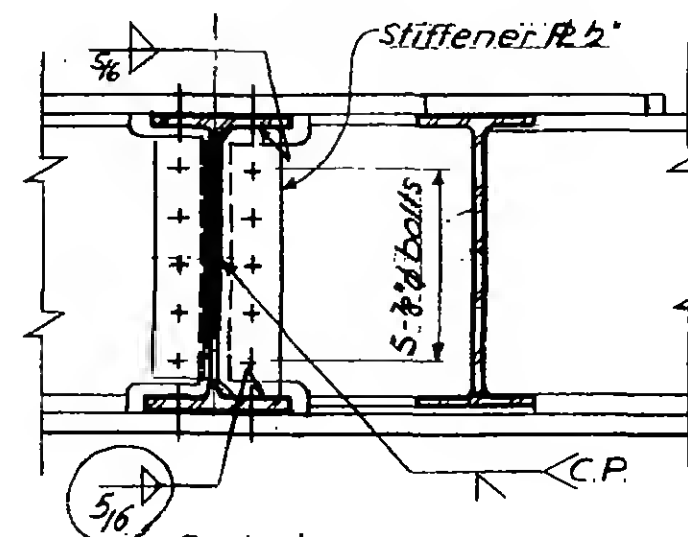
Plan



Section a-a



Section b-b



Section c-c

6-AB5-57.1



PROJECT

THE WORLD TRADE CENTER

TITLE

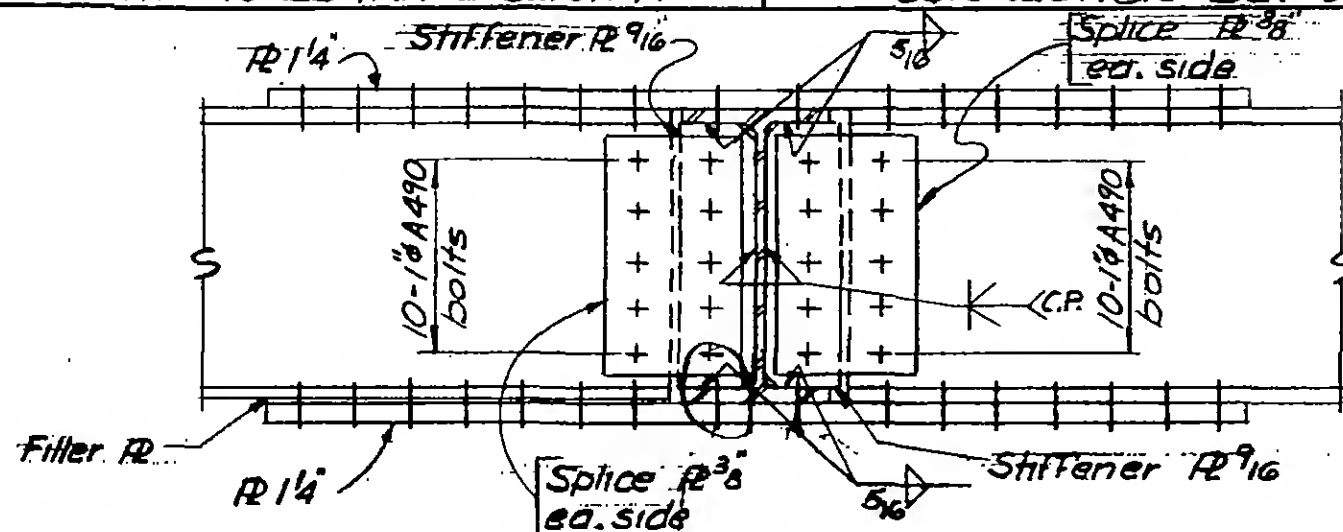
CONNECTION DETAIL 860 A, B & C

DATE

9-29-67

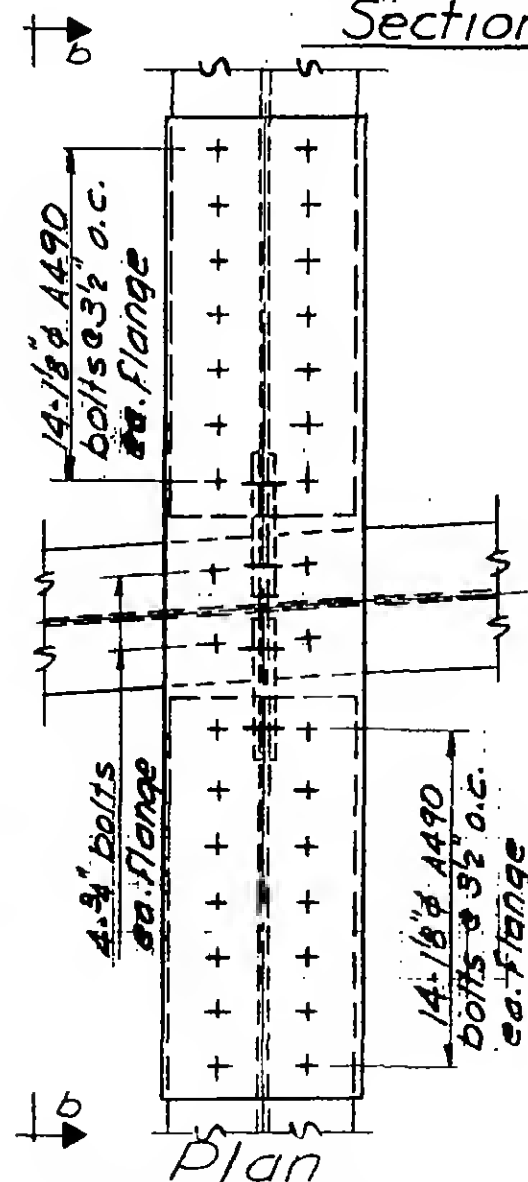
REVISIONS

10-31-67



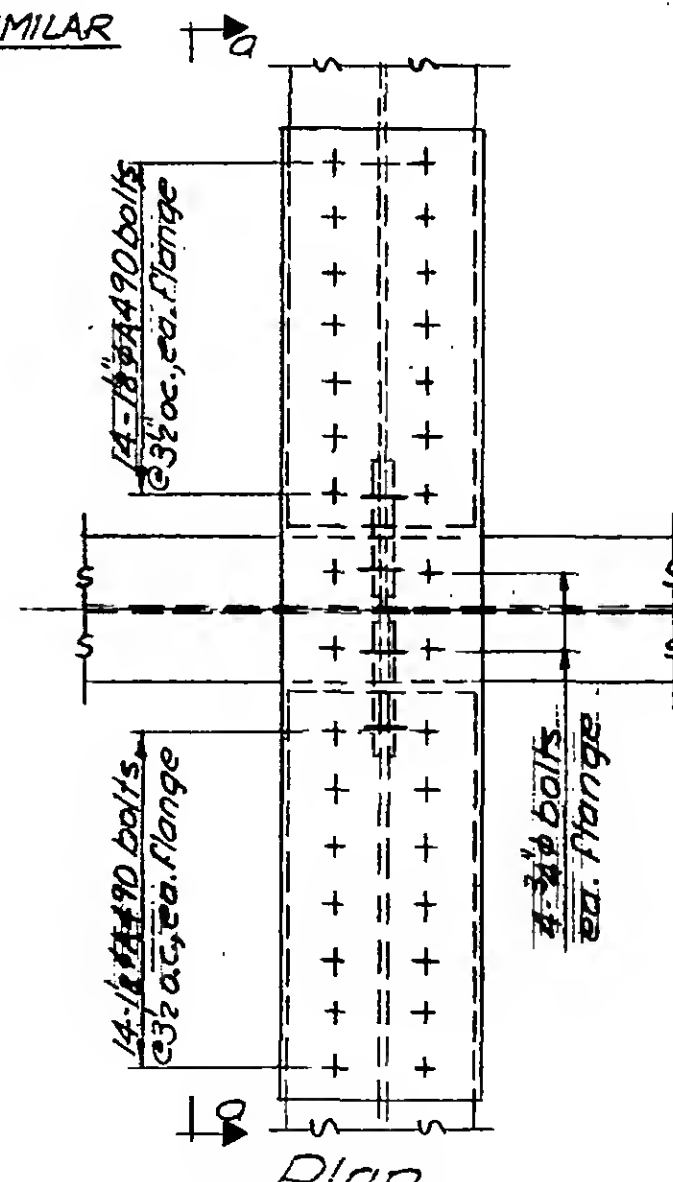
Section a-a

Section b-b SIMILAR



Plan

DET. 860 A - As Shown
DET. 860 B - Opp. Hand



Plan

DET. 860 C

G-AB5-58



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

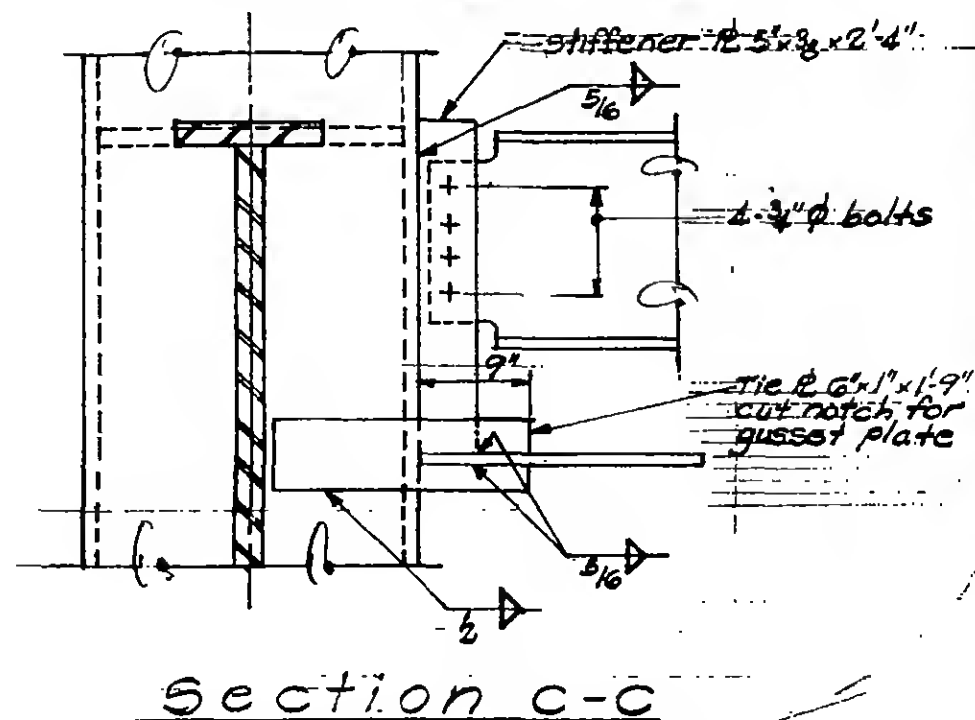
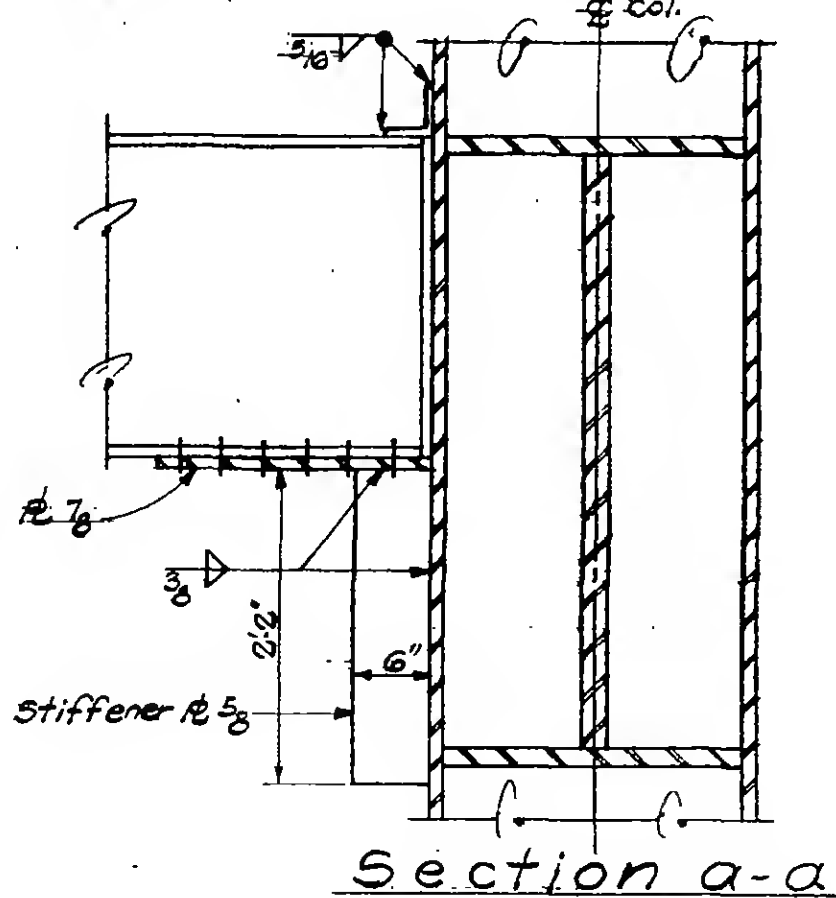
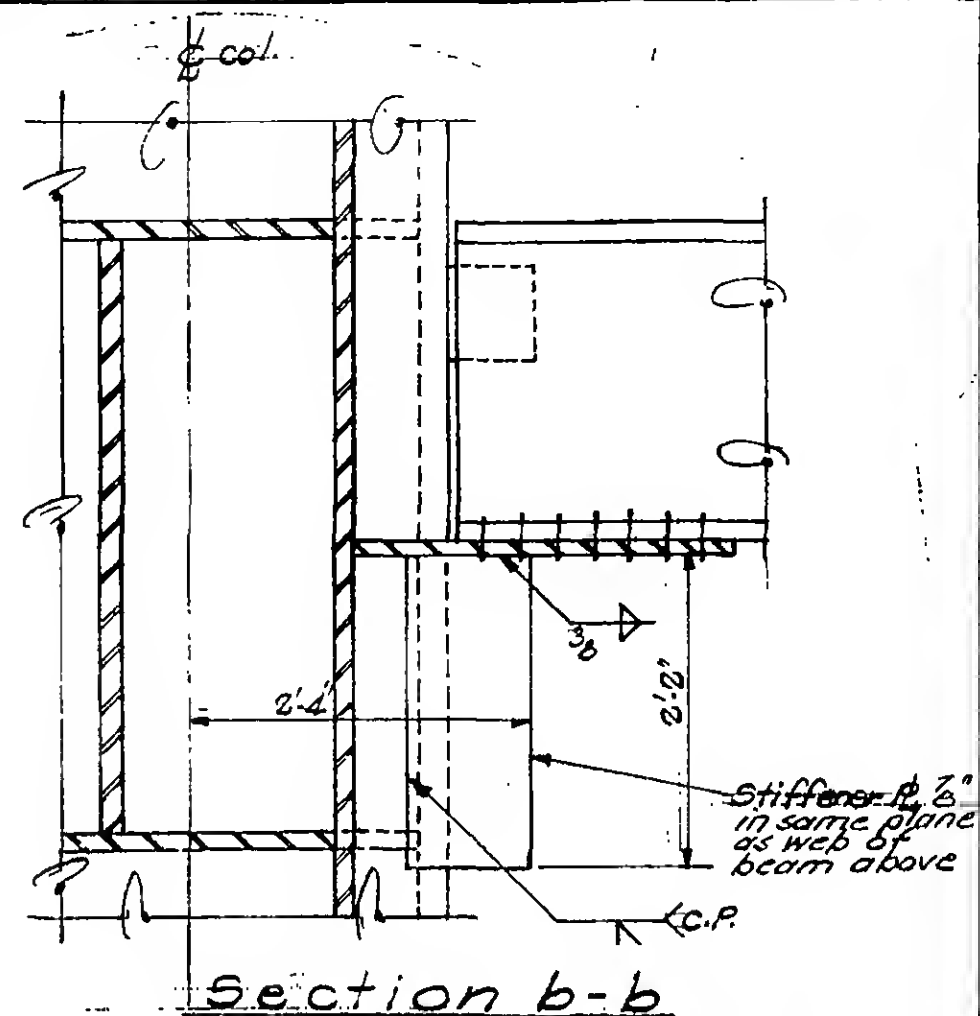
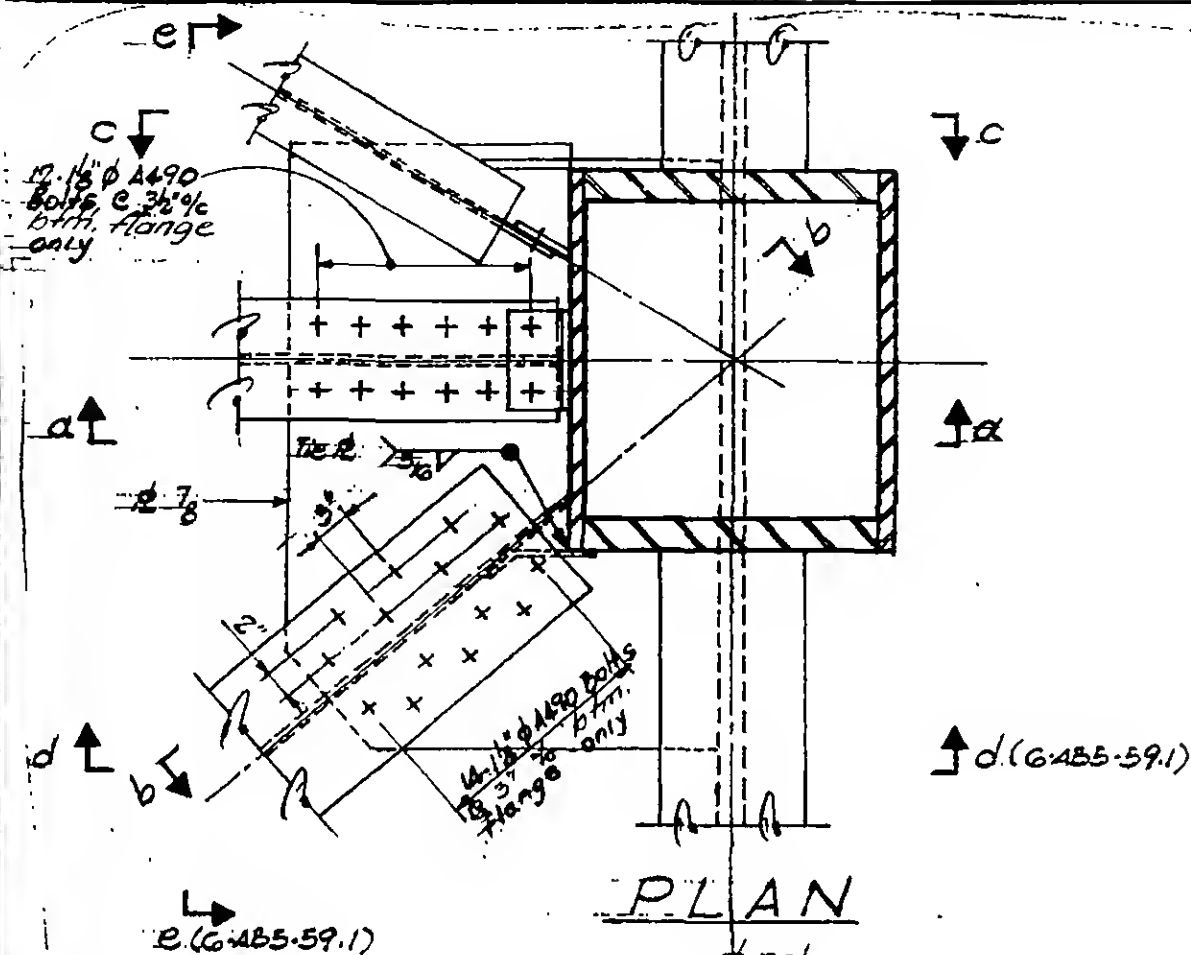
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 861A

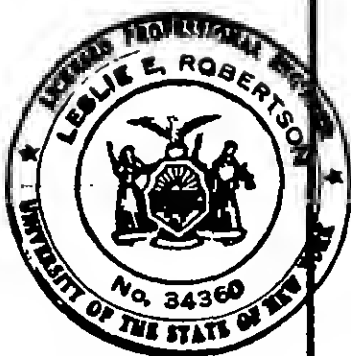
DATE 7-14-67

REVISIONS

9-15-67



6-AB5-59



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

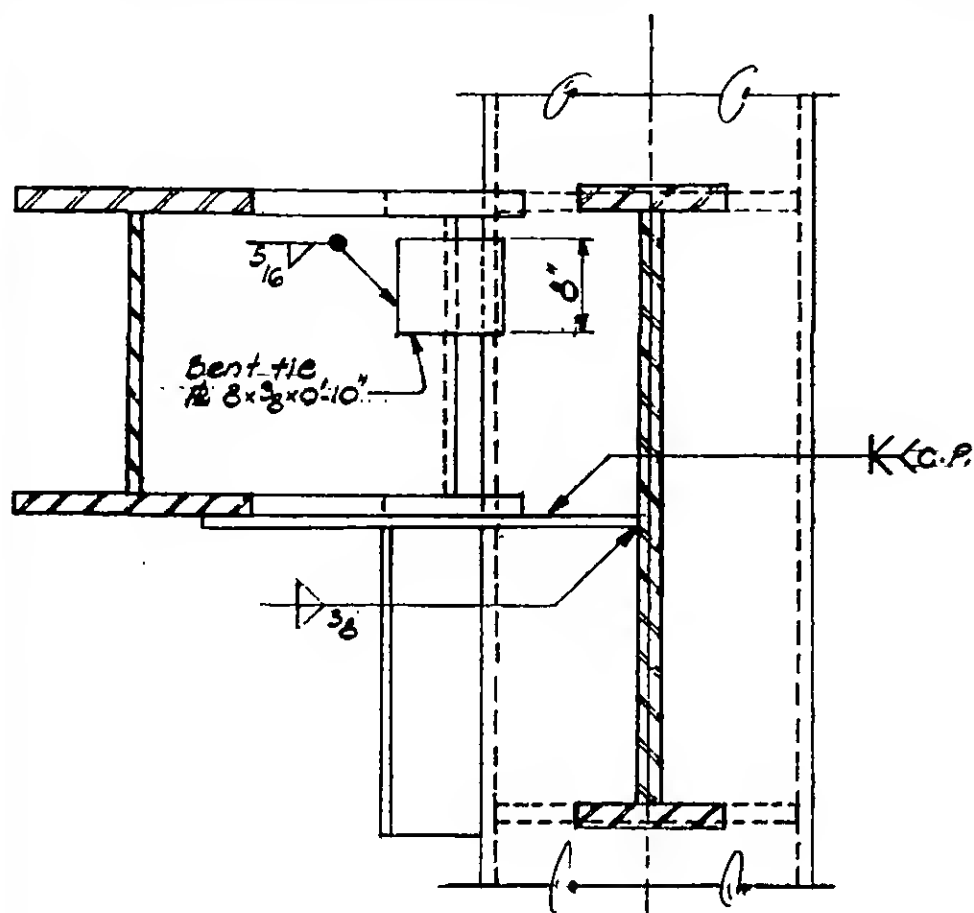
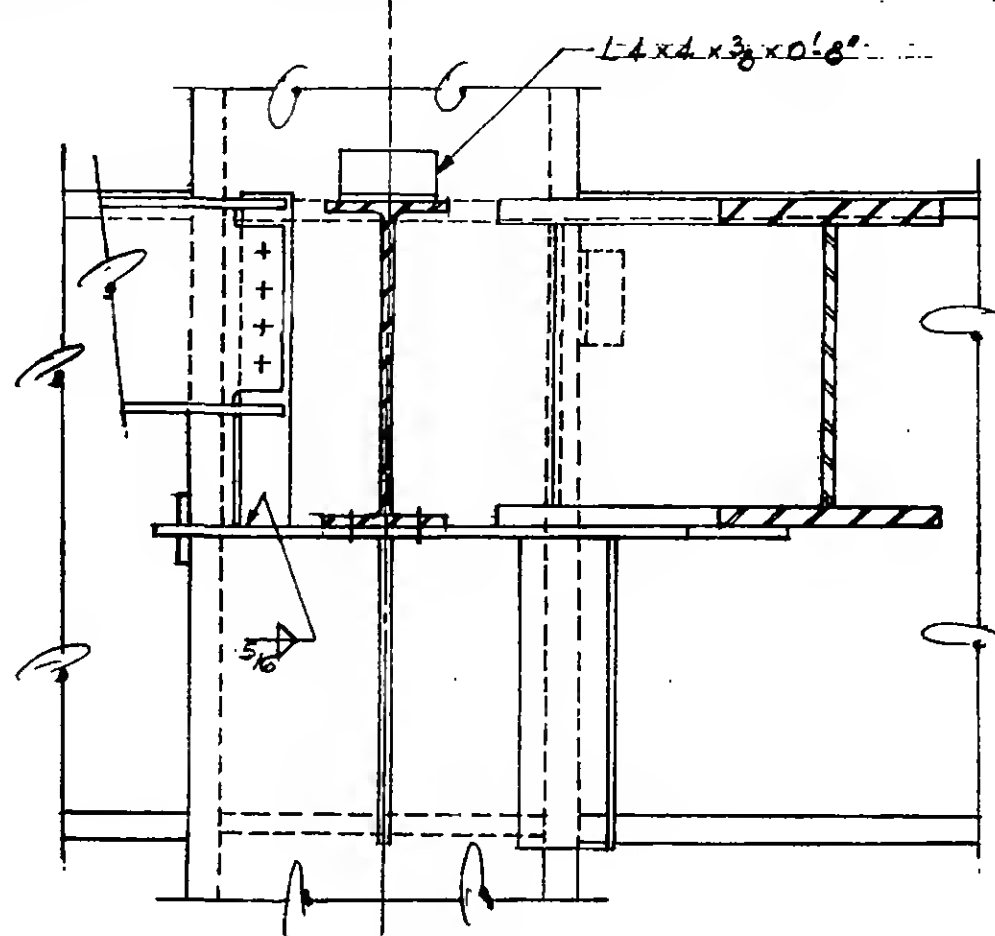
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 8GTA

DATE 9-15-67

REVISIONS

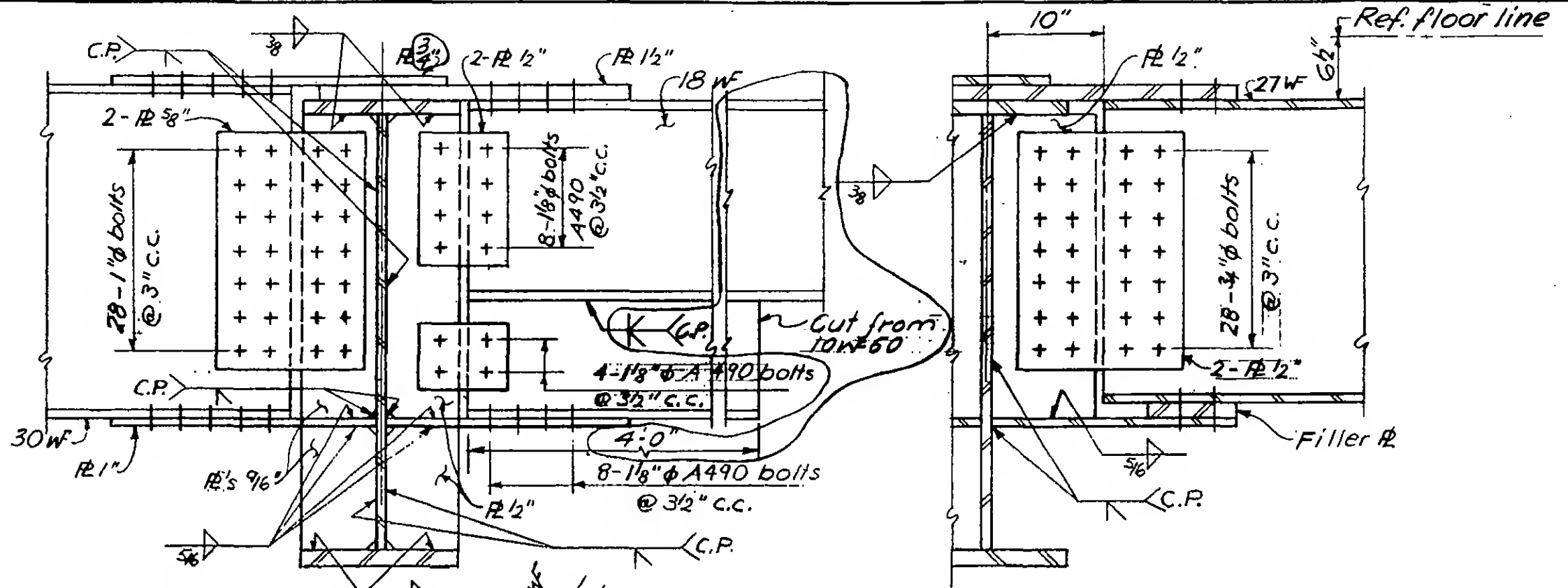
Section d-dSection e-e

6-AB5-59.1

REVISIONS

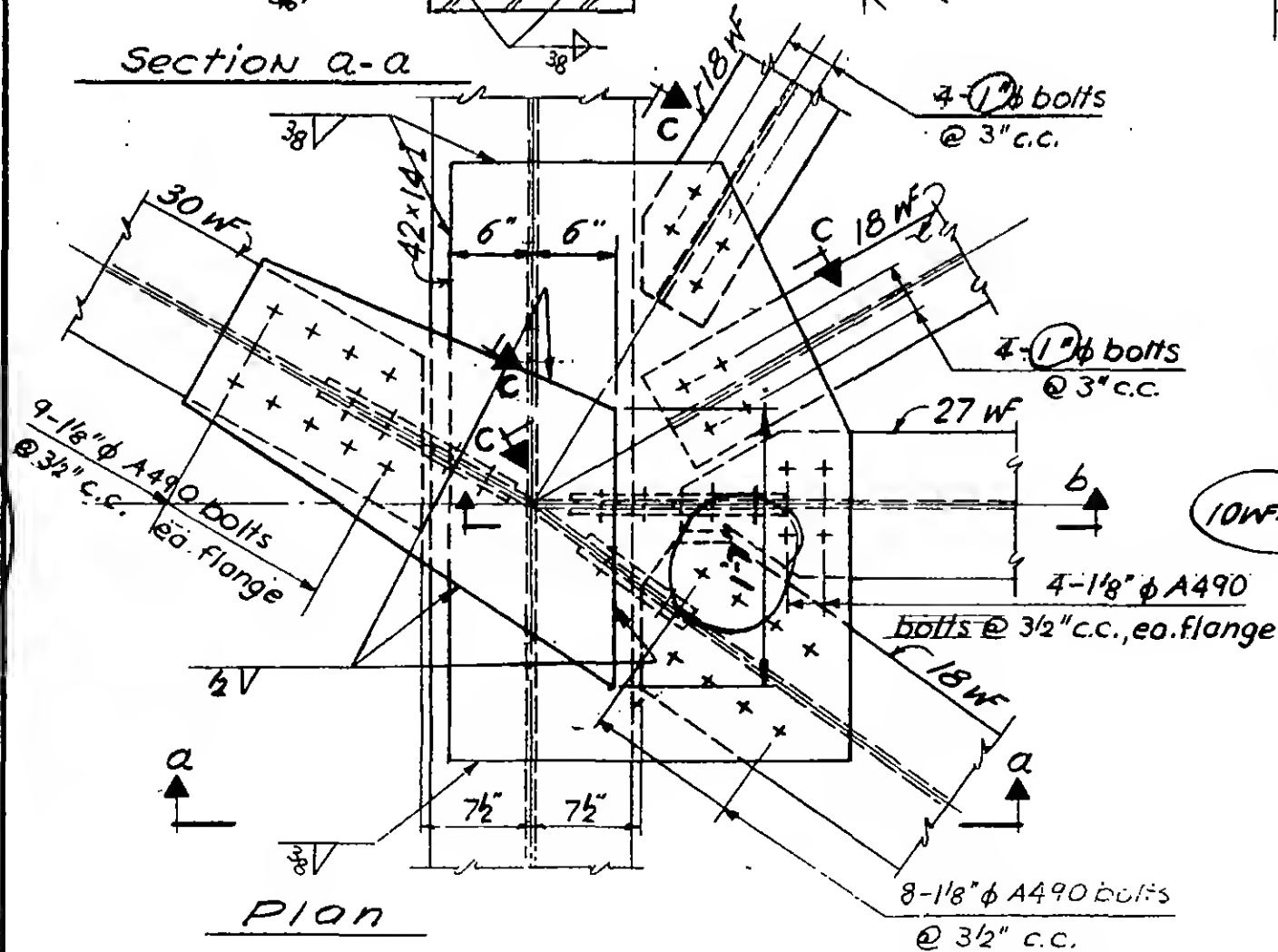
9-29-67

10-31-67



Section a-a

Section b-b

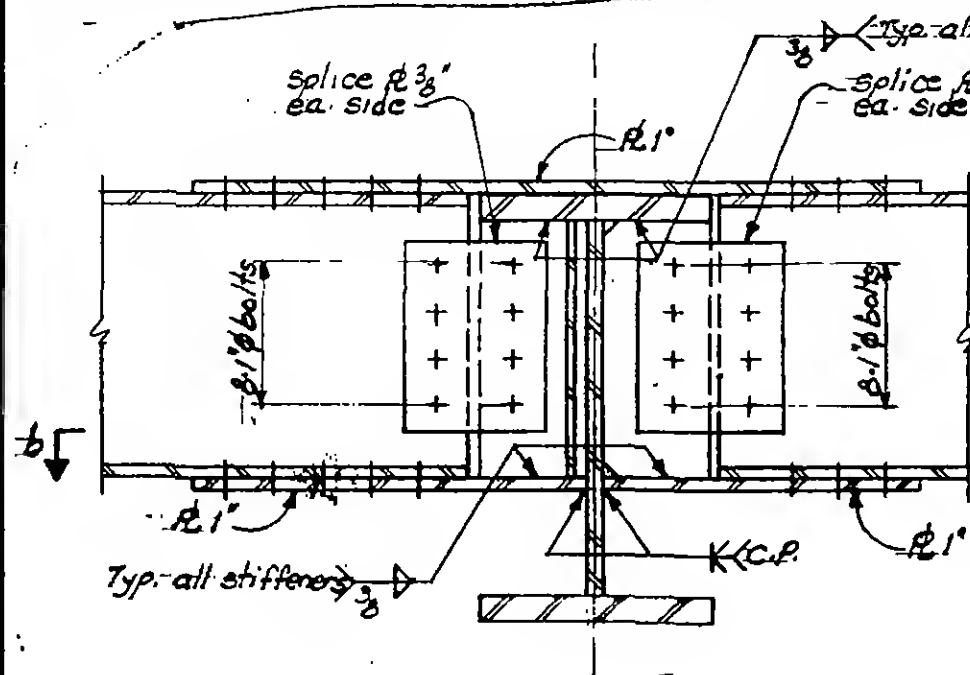


Section c-c

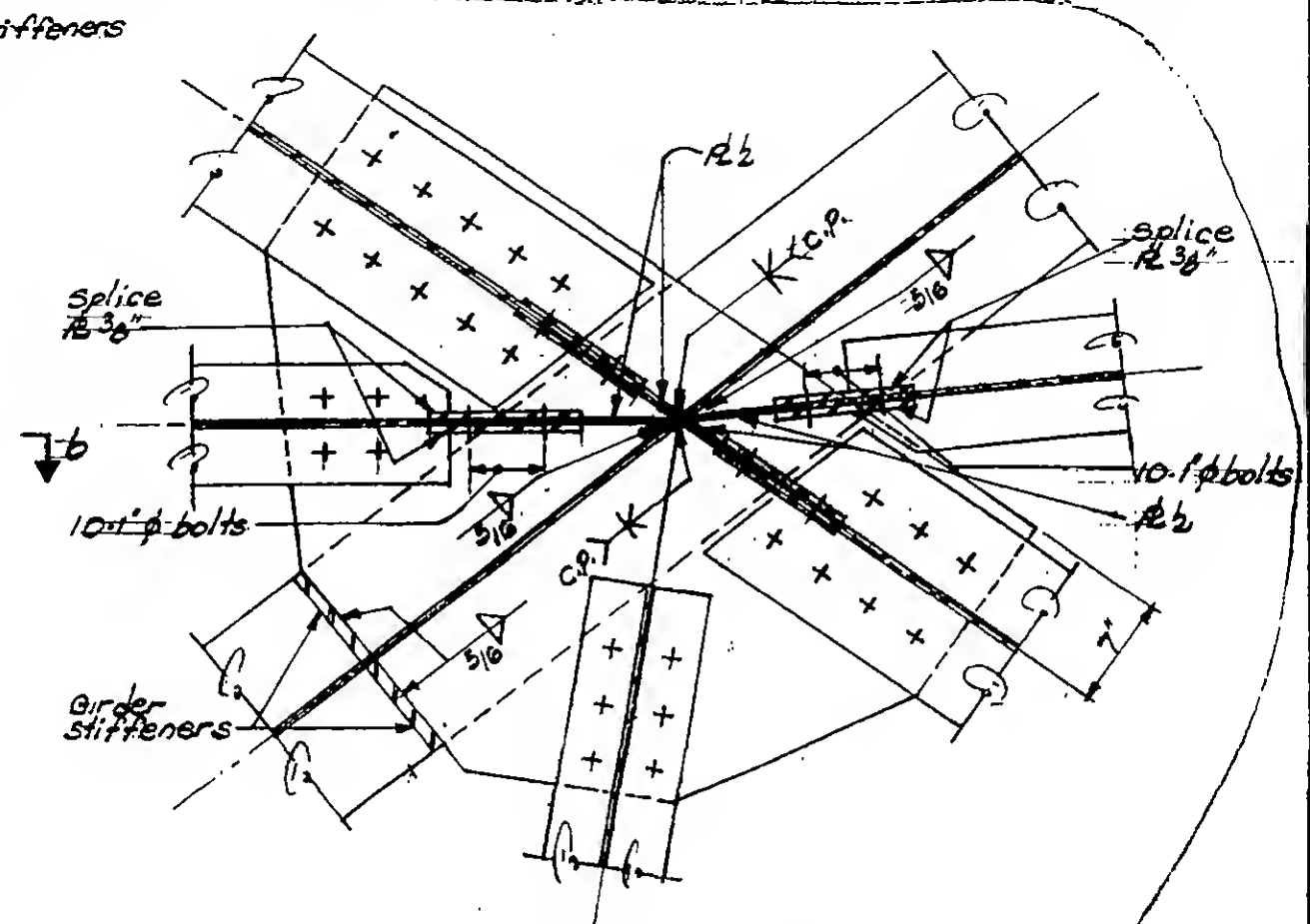


REVISIONS

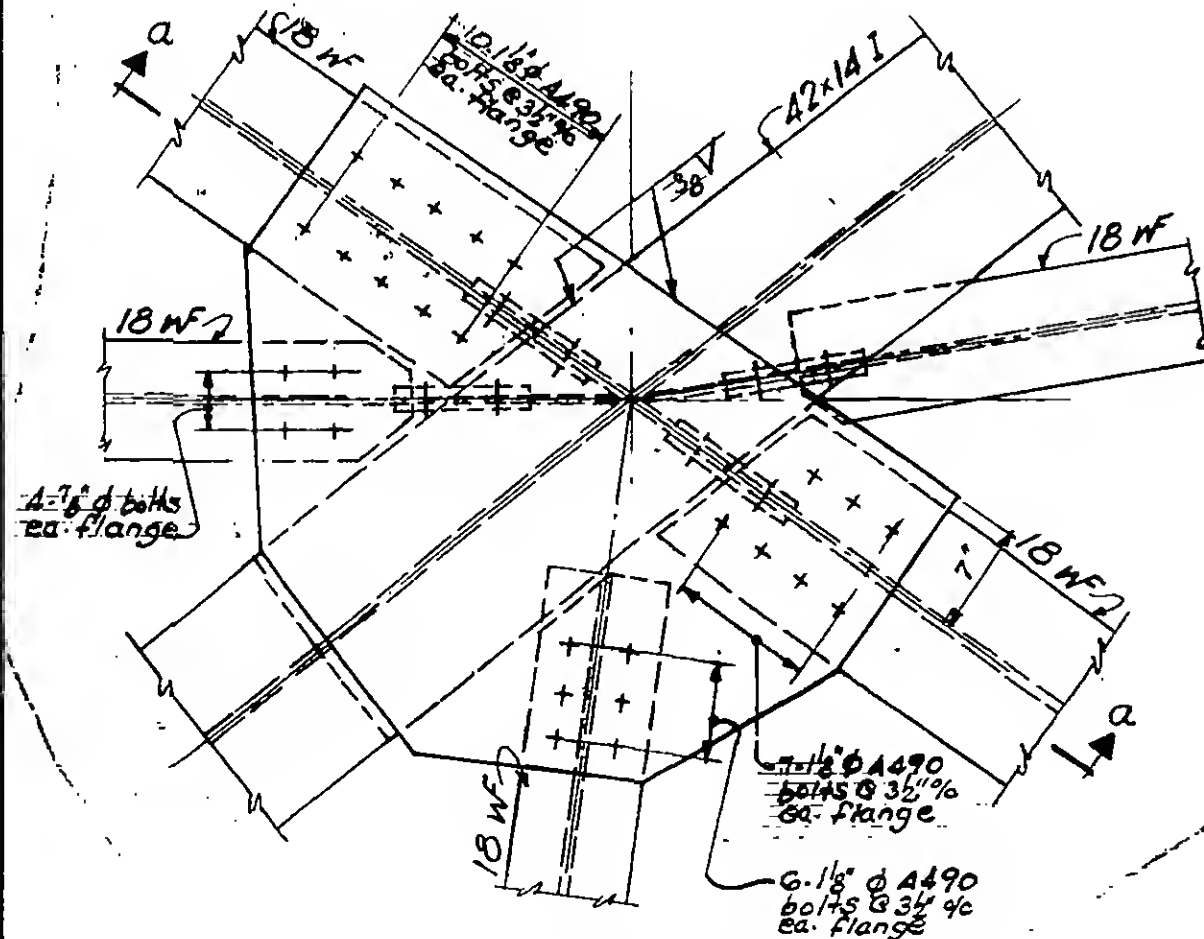
9-29-67



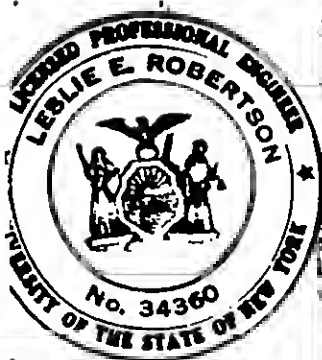
Section a-a



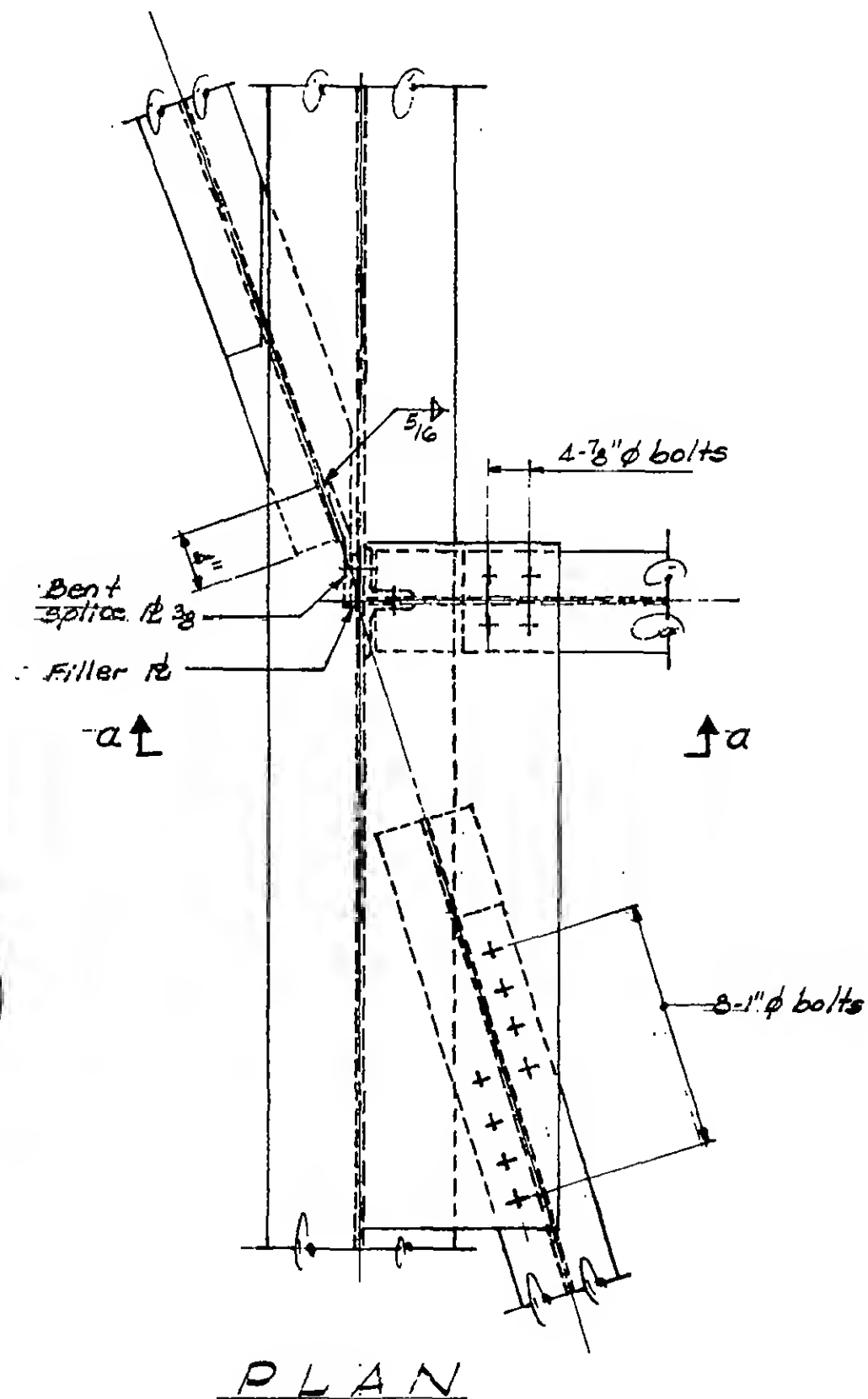
Section b-b



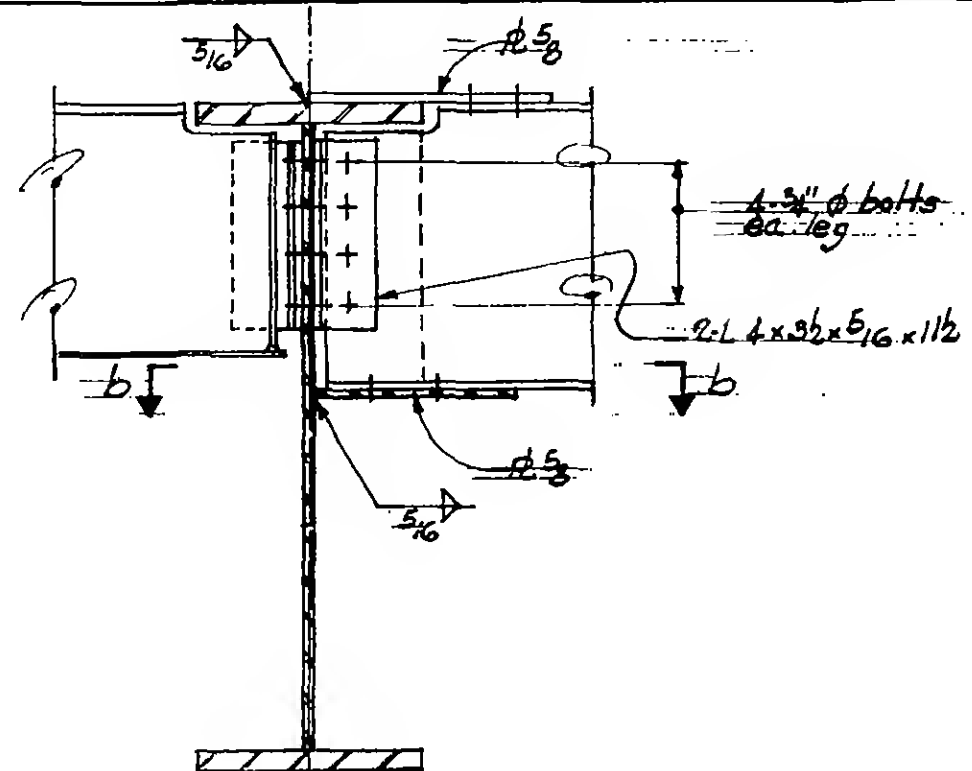
Plan



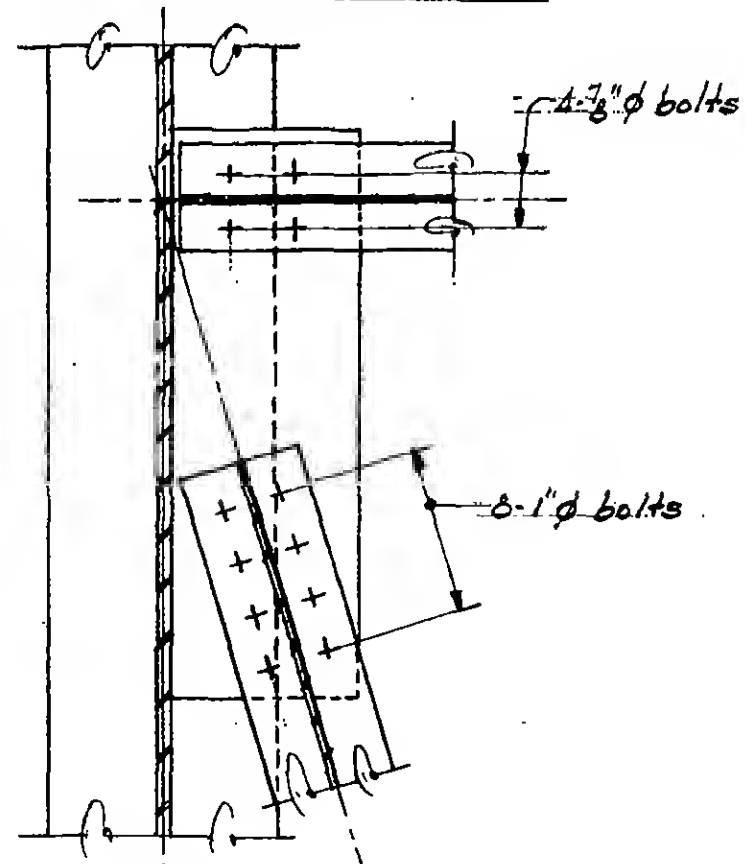
REVISIONS



PLAN



Section a-a



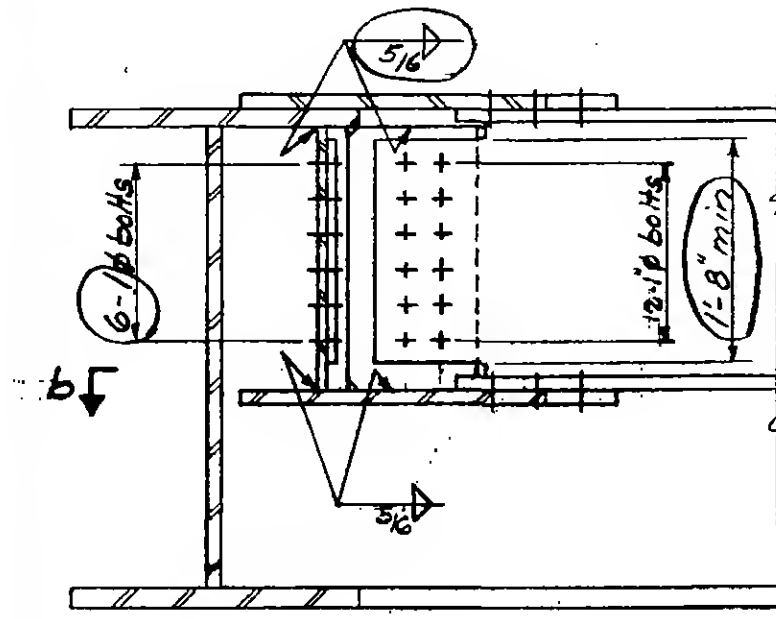
Section b-b



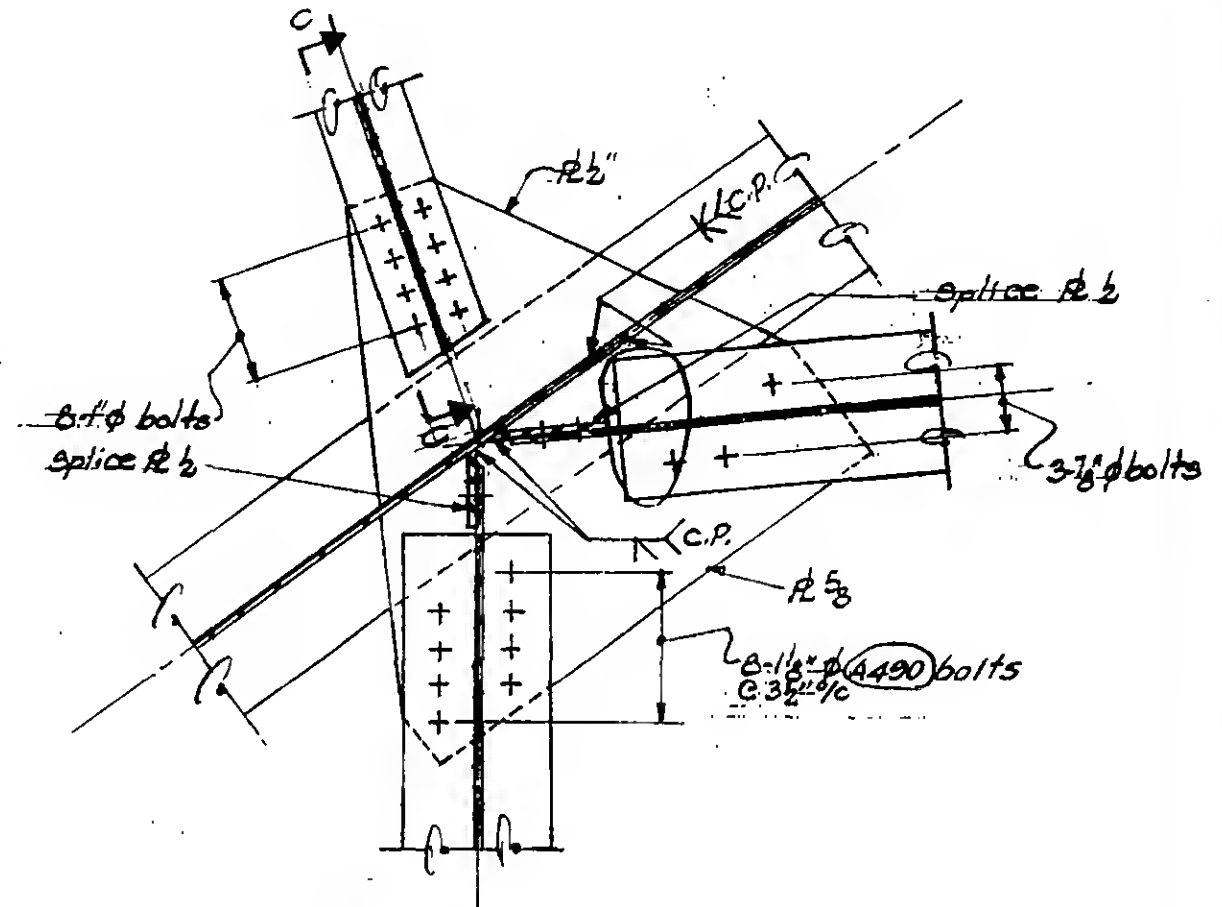
REVISIONS

9-29-67

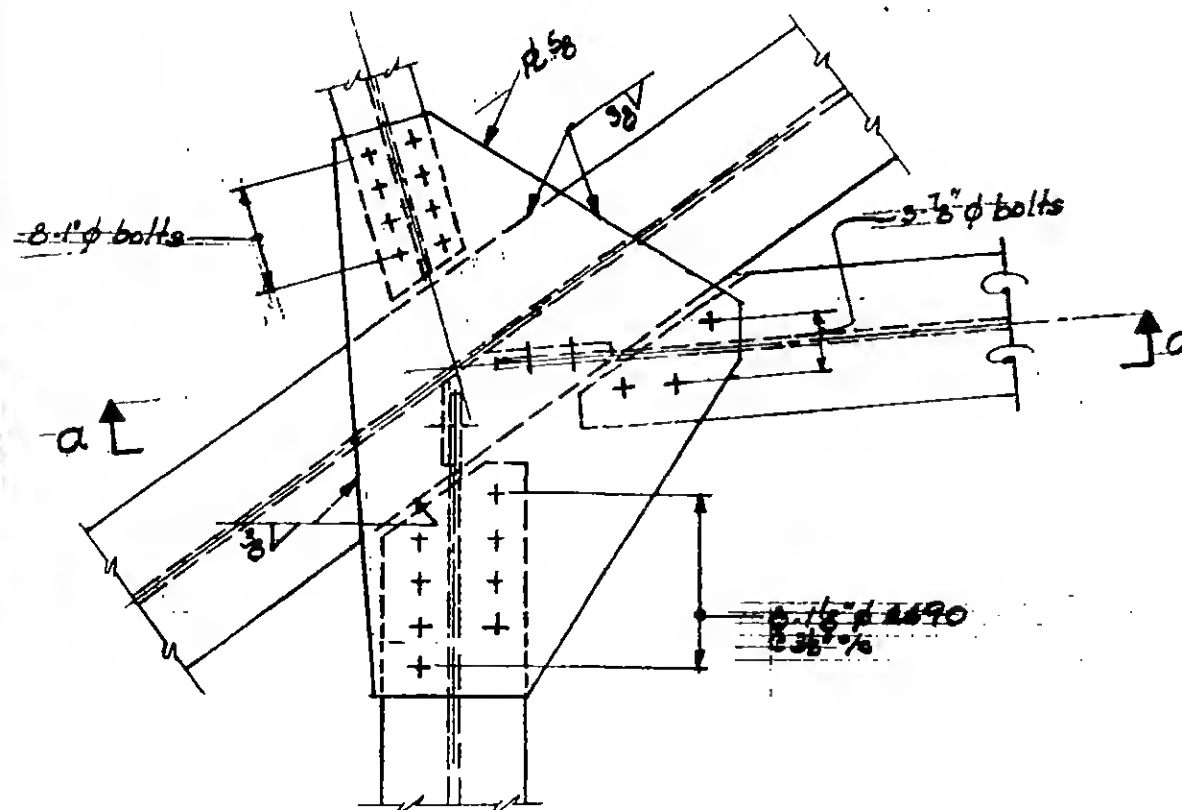
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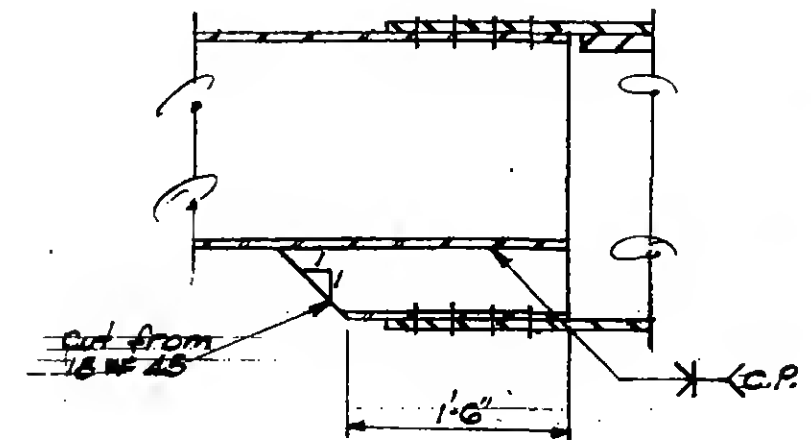
Section a-a



Section b-b



Plan



Section c-c

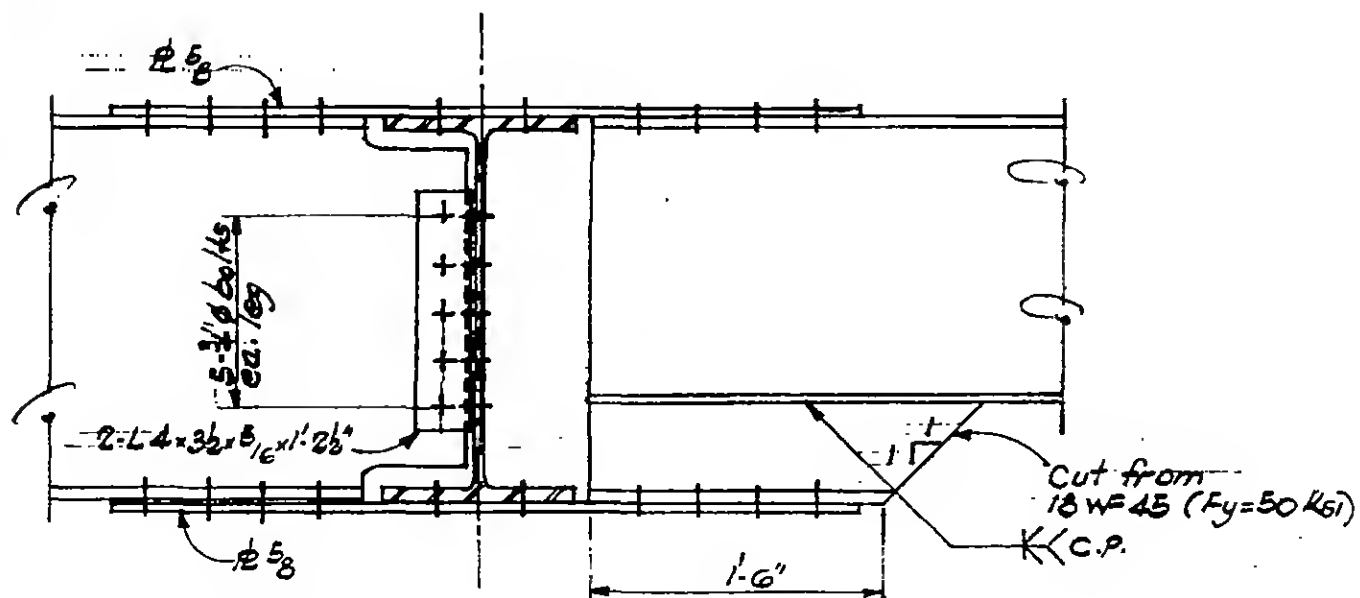
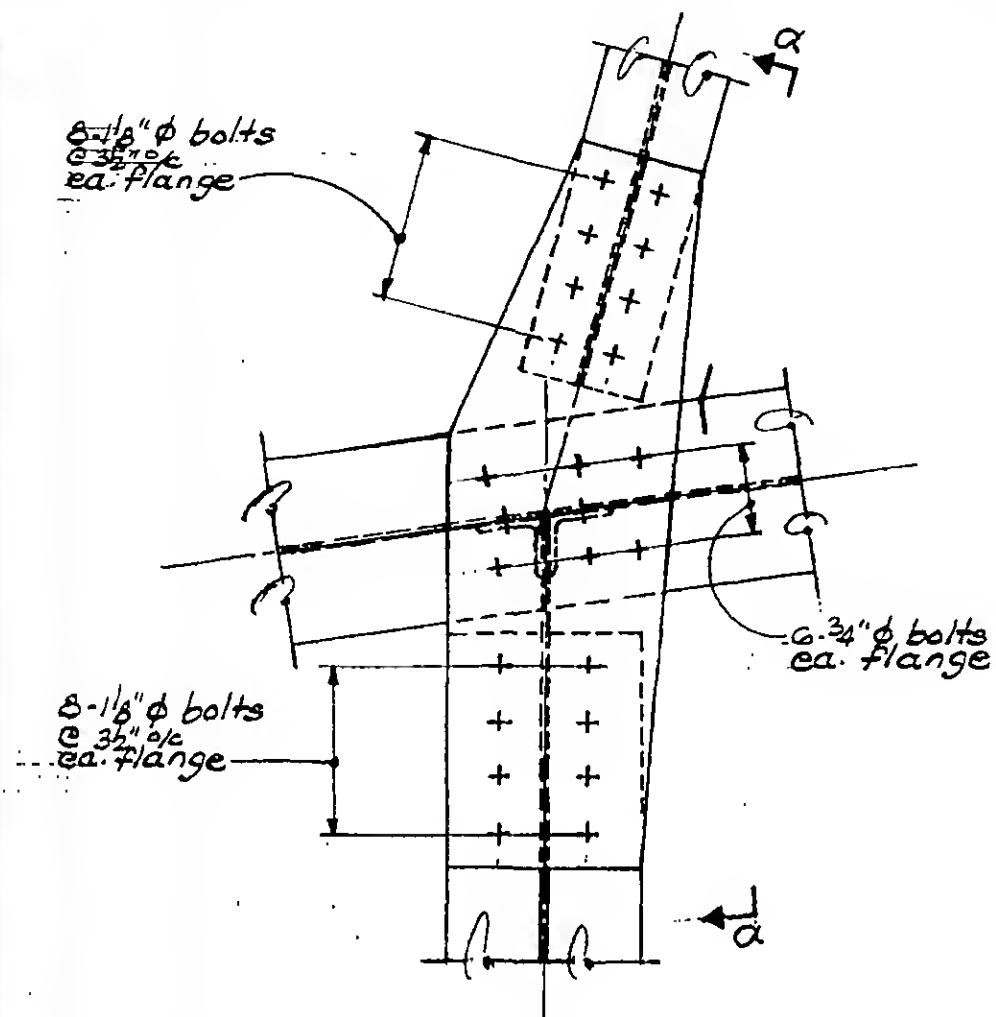


PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 866A

DATE 9-29-67

REVISIONS

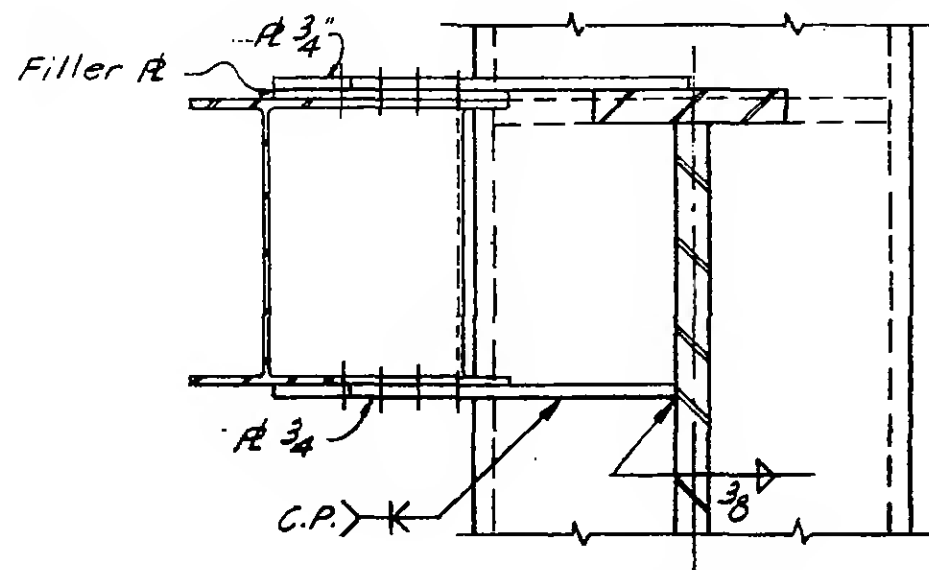


Section a-a

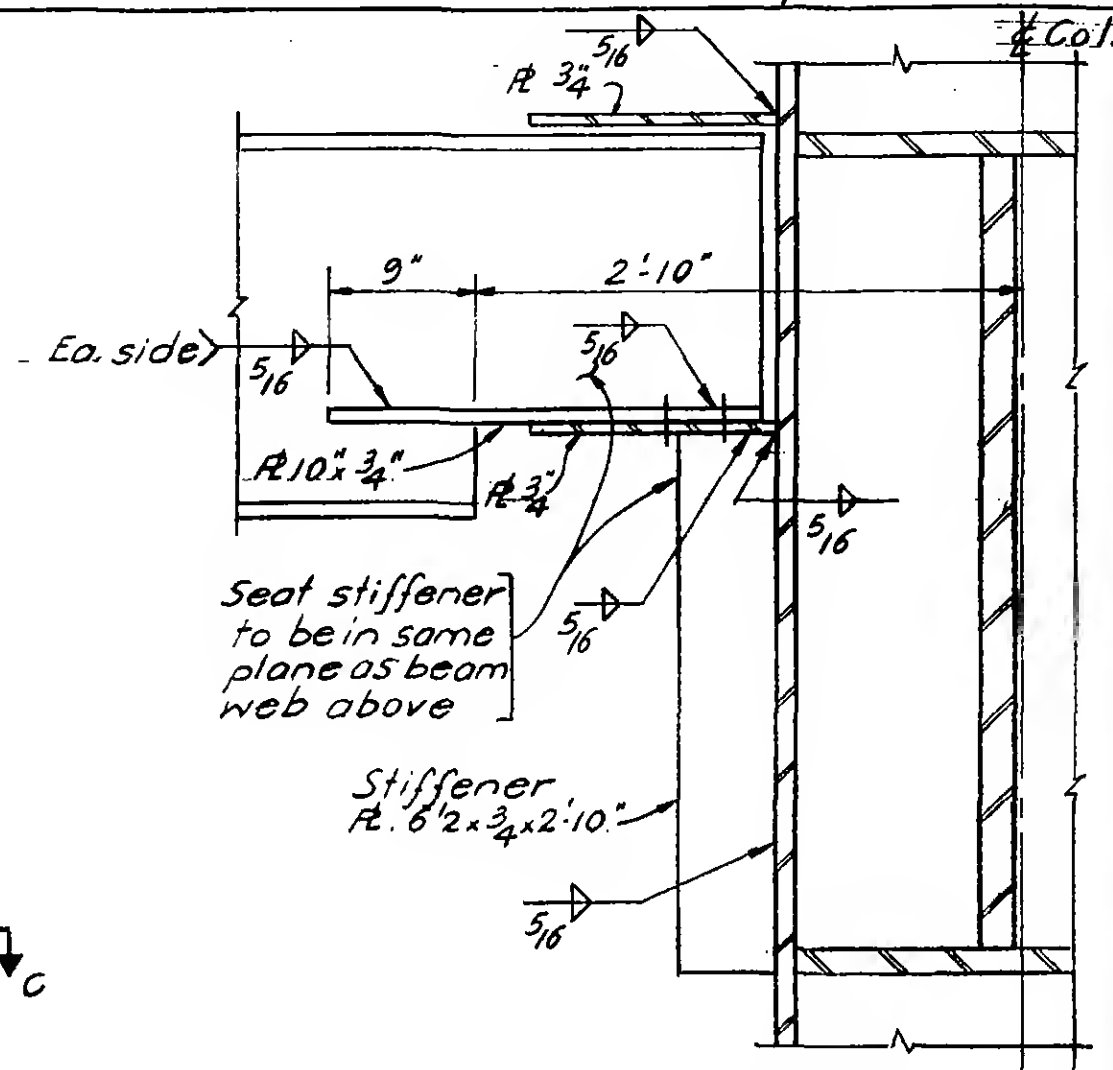
6-AB5-64



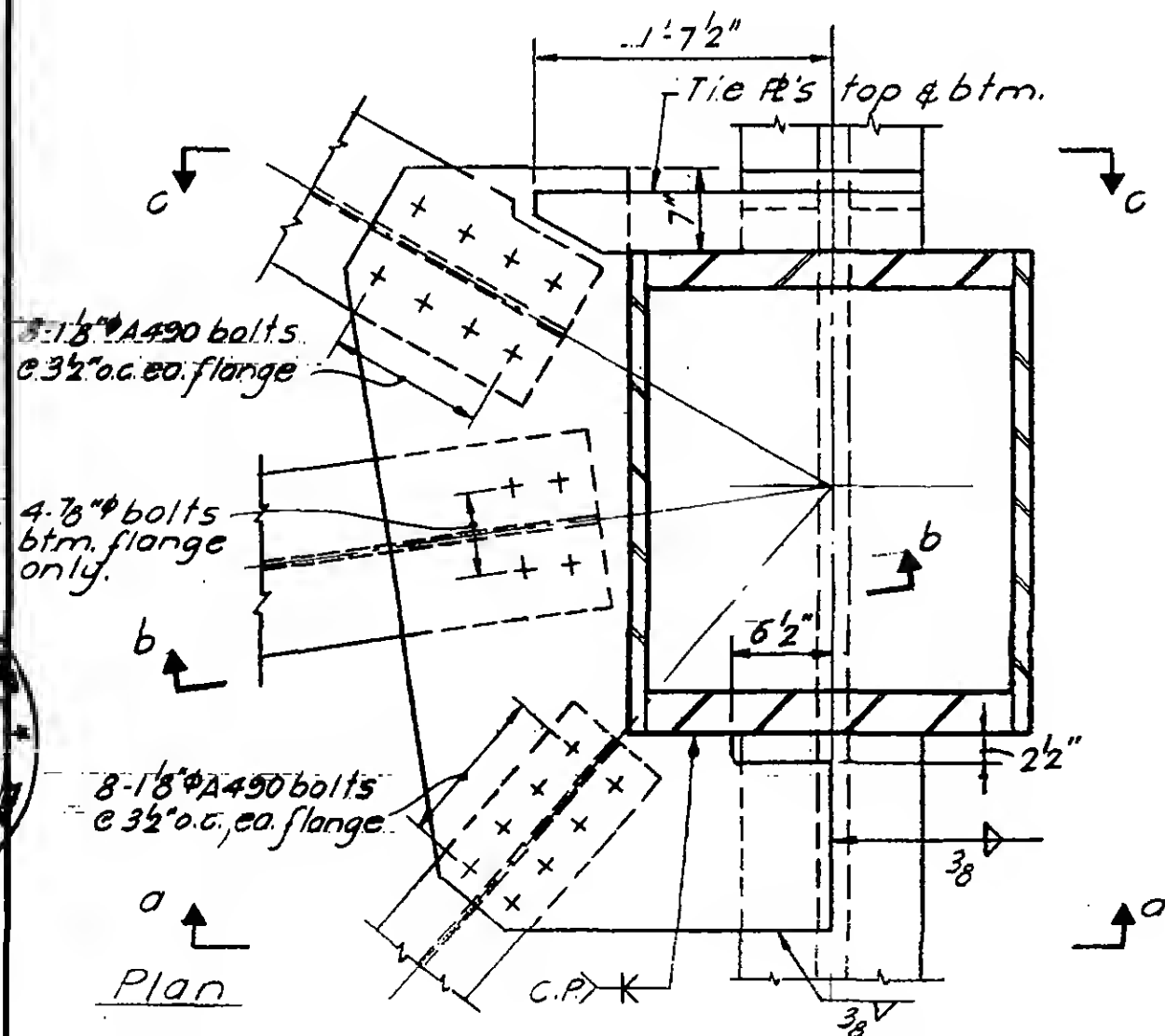
REVISIONS



Section a-a



Section b-b



Plan

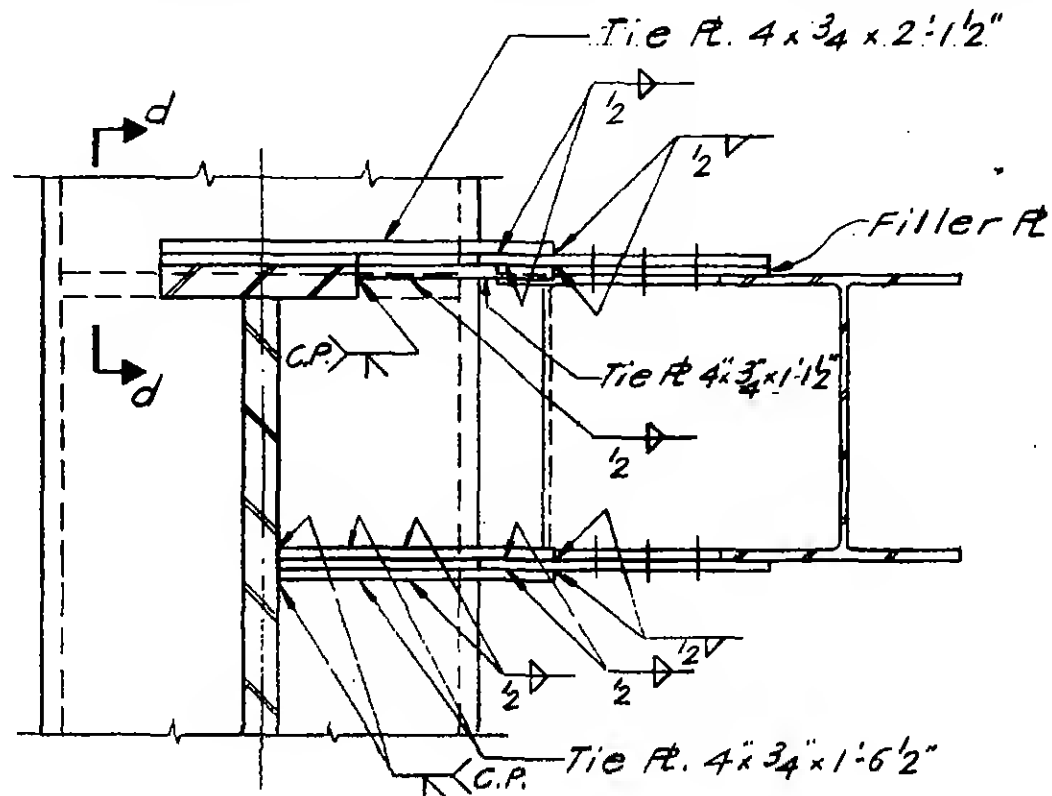
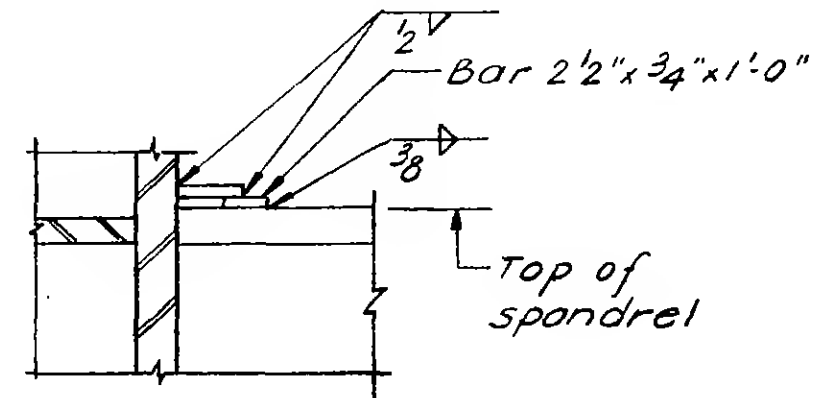
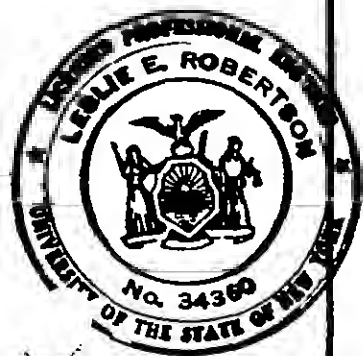


PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 867A

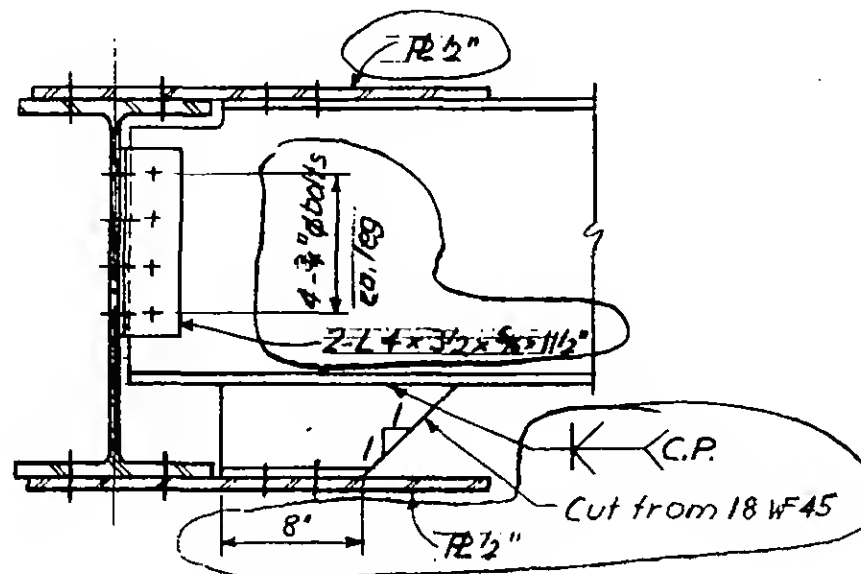
DATE 9-15-67

REVISIONS

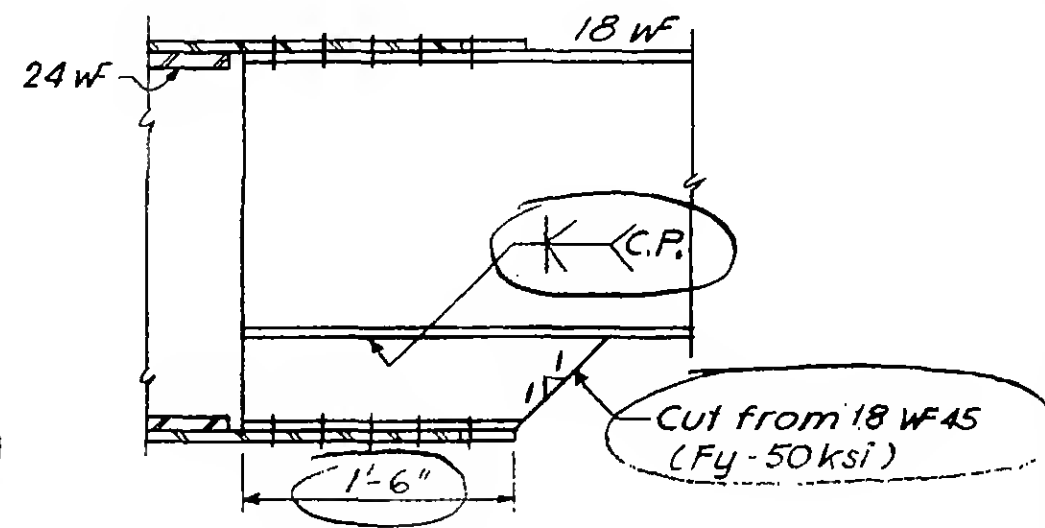
Section C-CSection D-D

REVISIONS

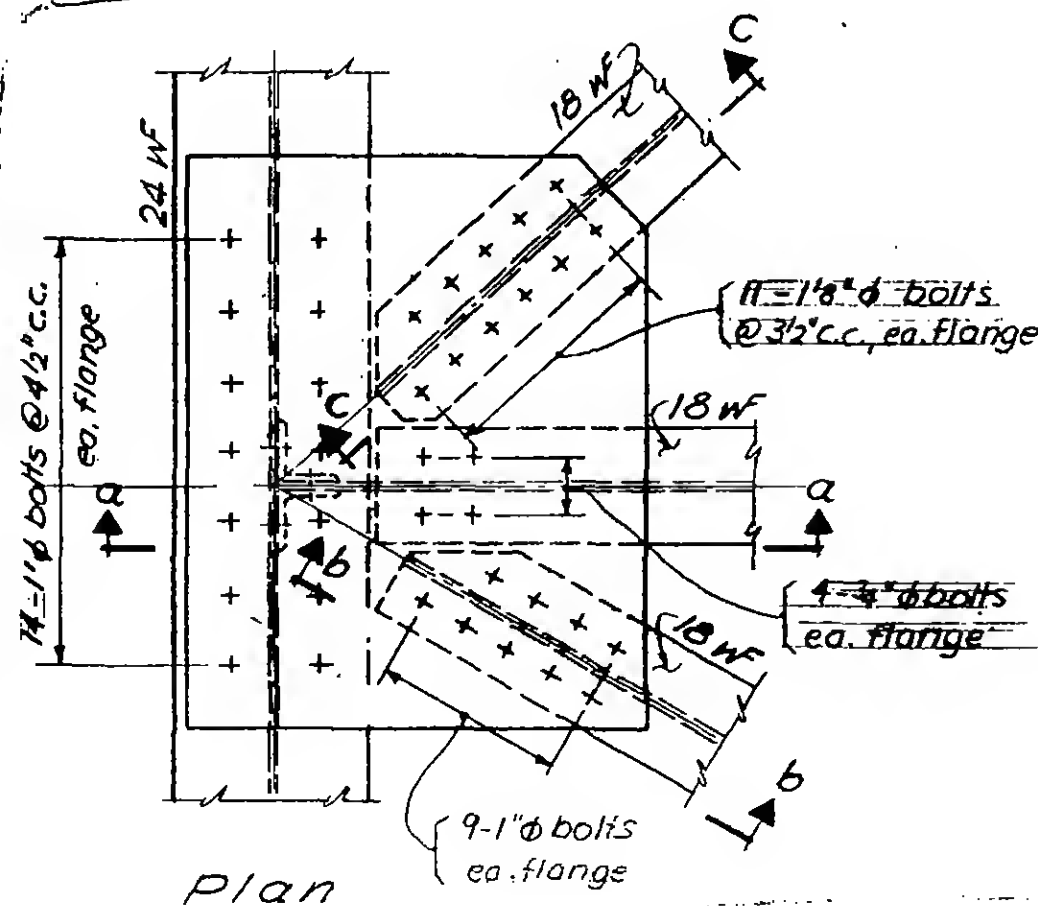
9-29-67



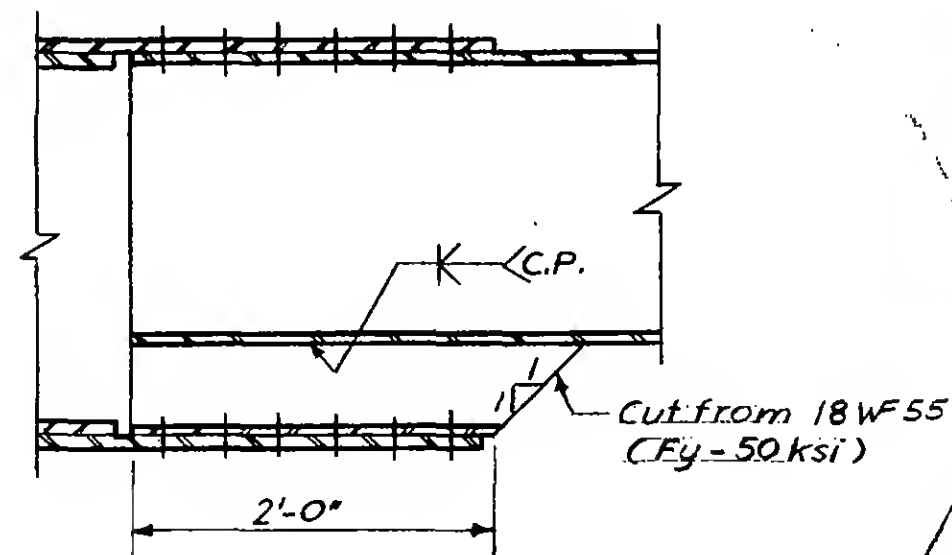
Section a-a



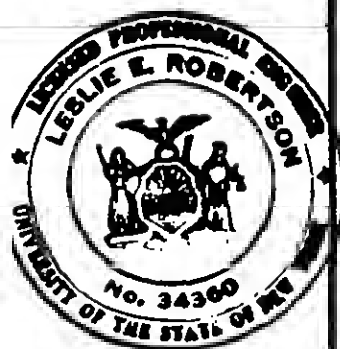
Section b-b



Plan



Section c-c



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

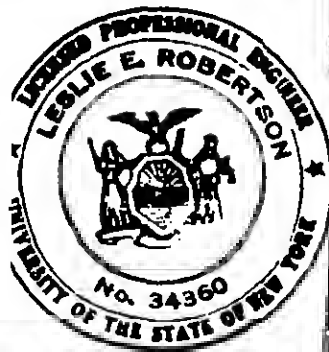
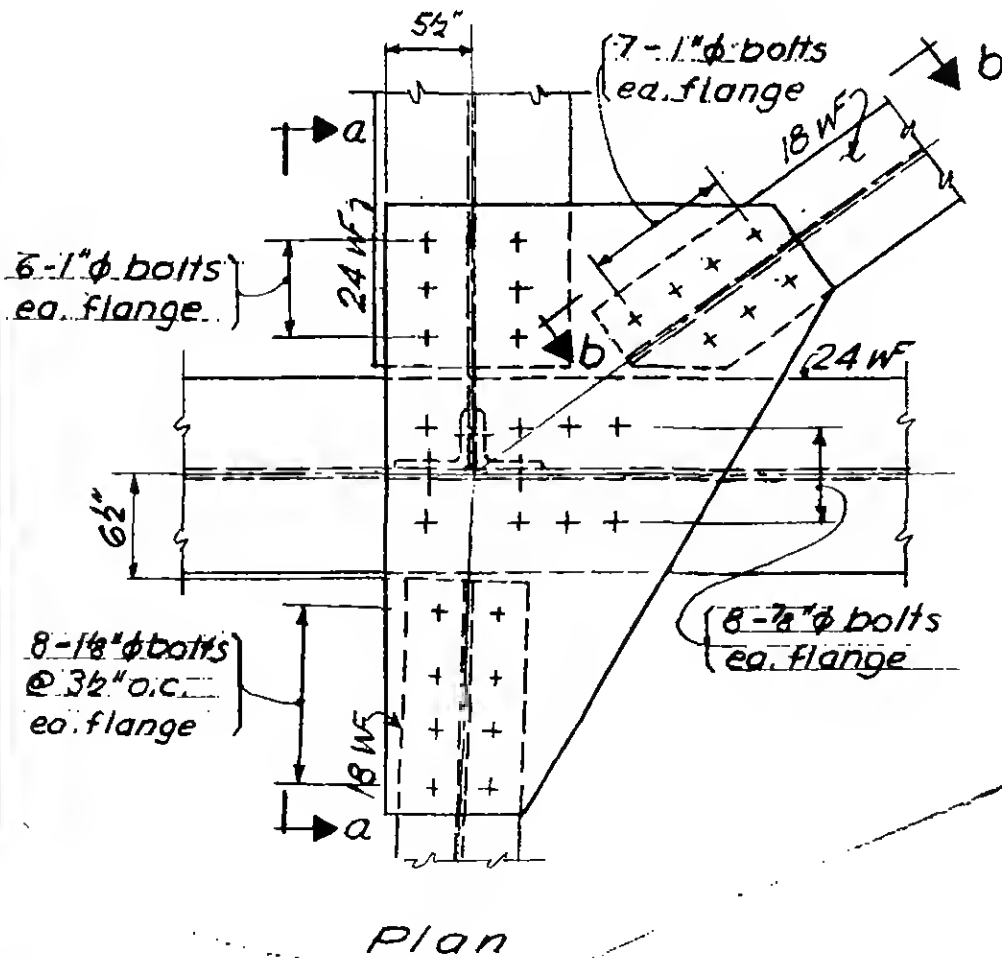
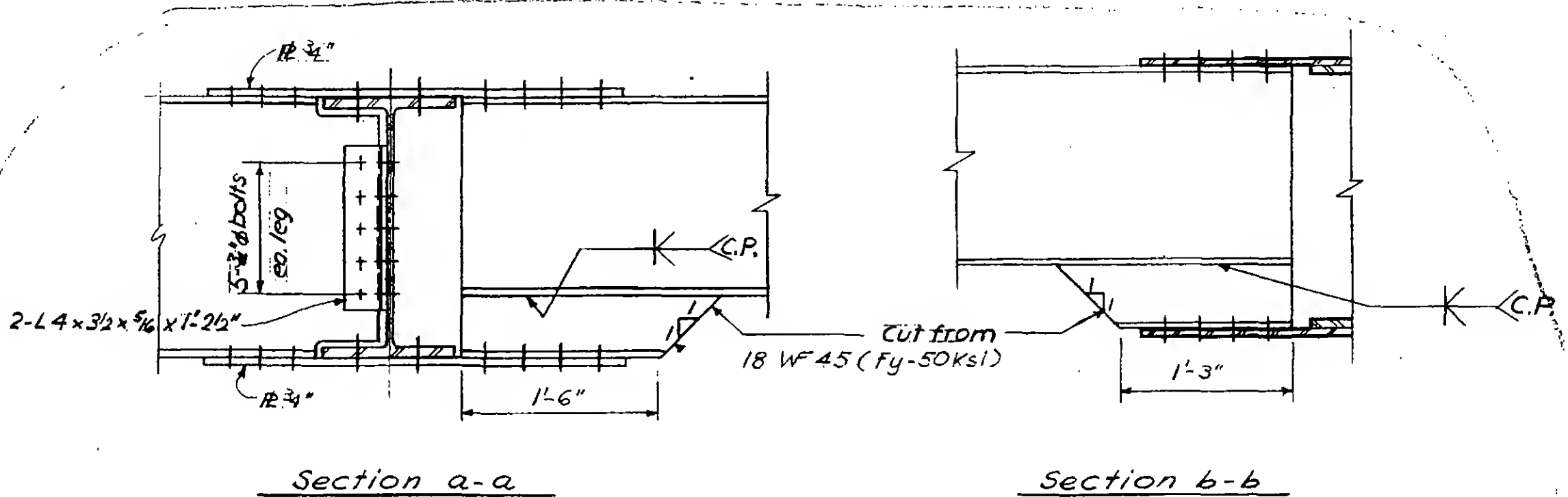
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 869 A

DATE 7-14-67

REVISIONS

9-29-67



6-AB5-67

WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

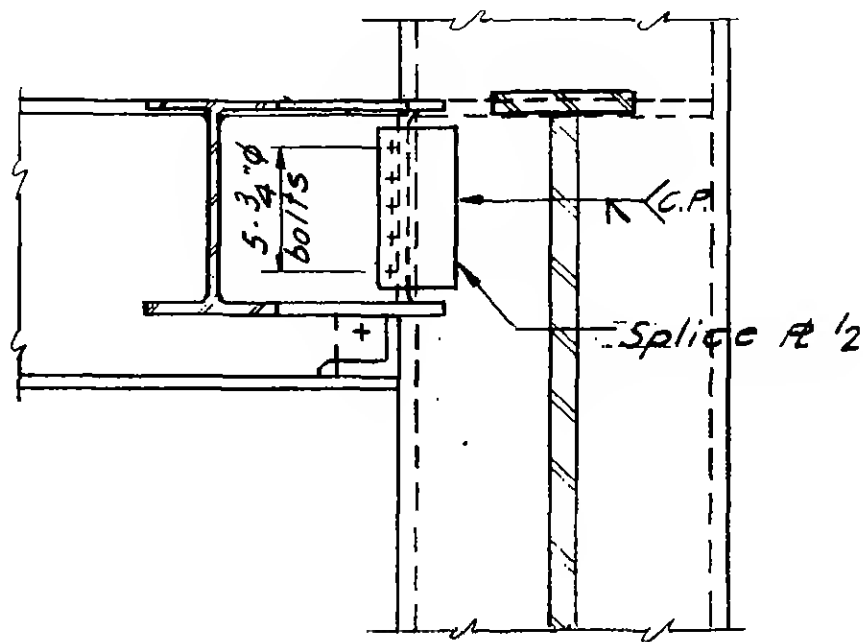
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 870 A

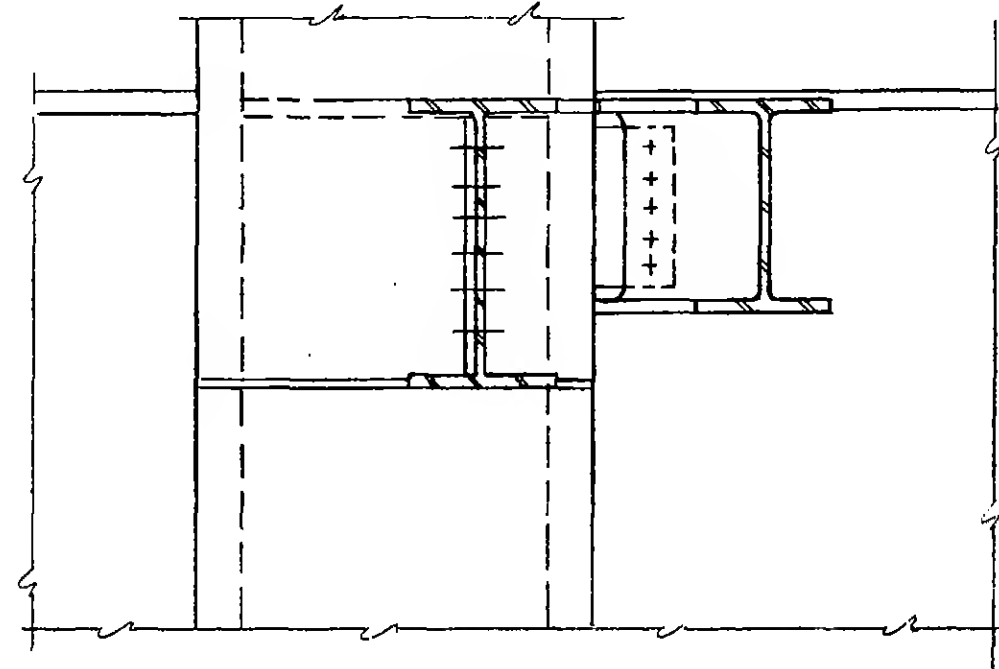
DATE 7-14-67

REVISIONS

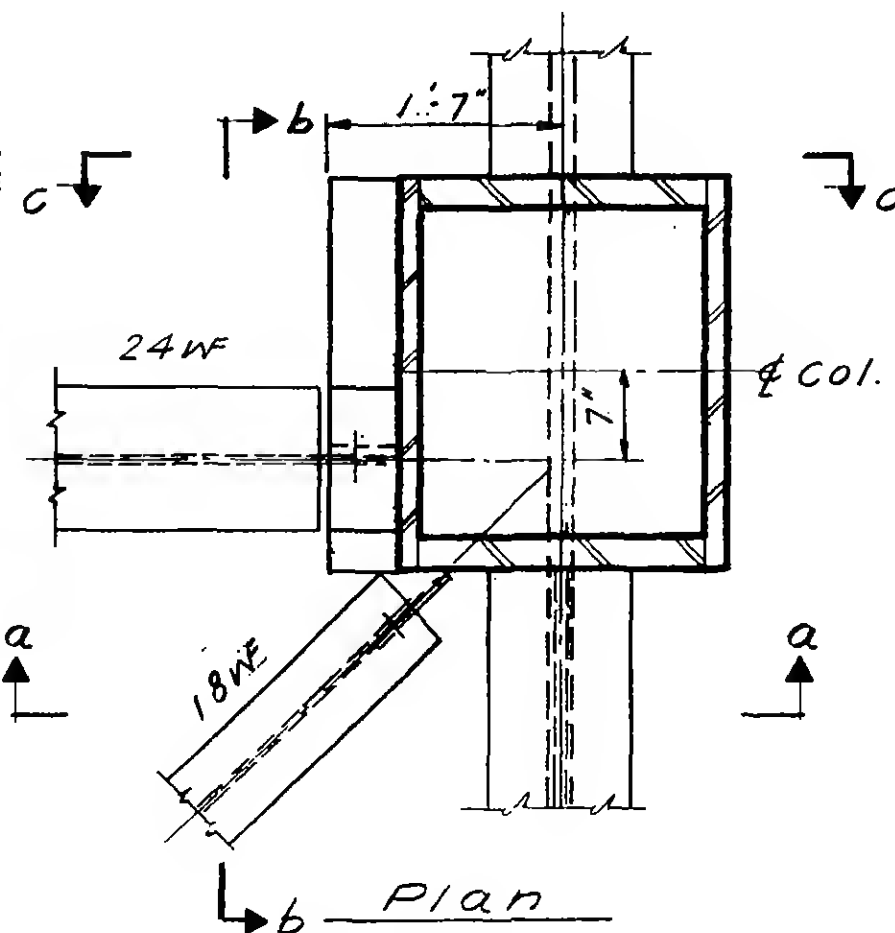
9-15-67



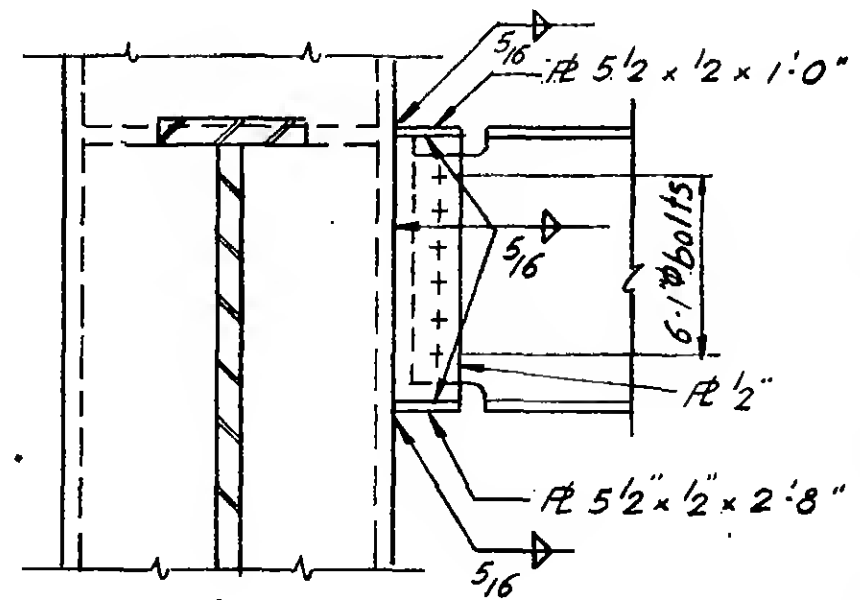
Section a-a



Section b-b

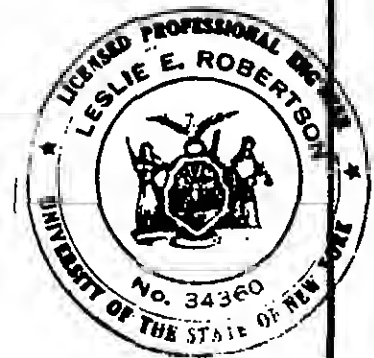


Plan



Section c-c

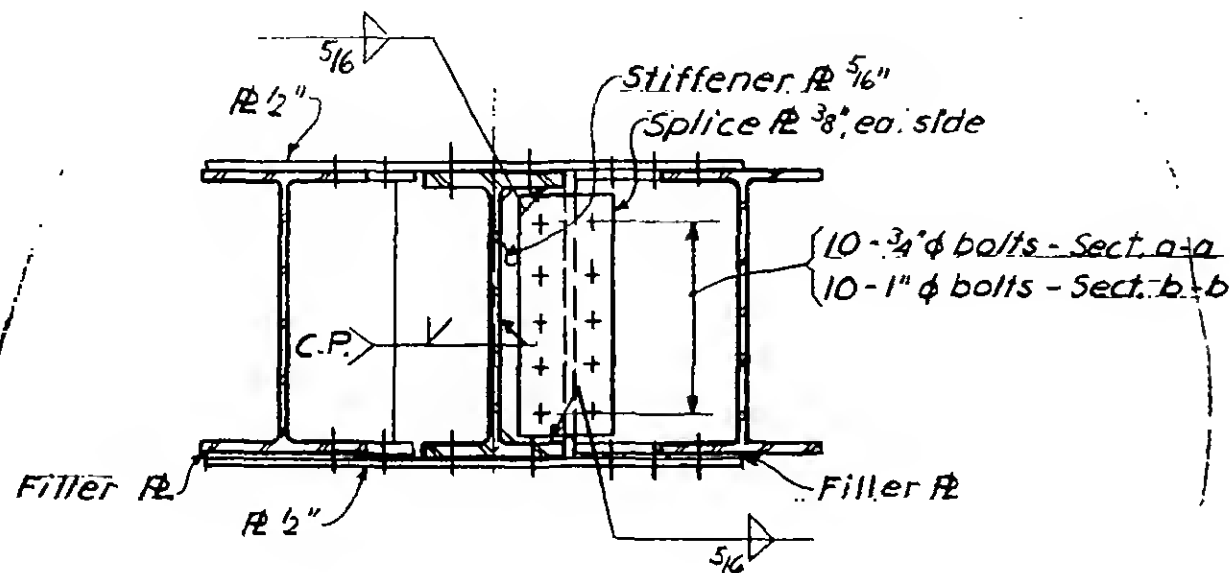
6-AR5-69



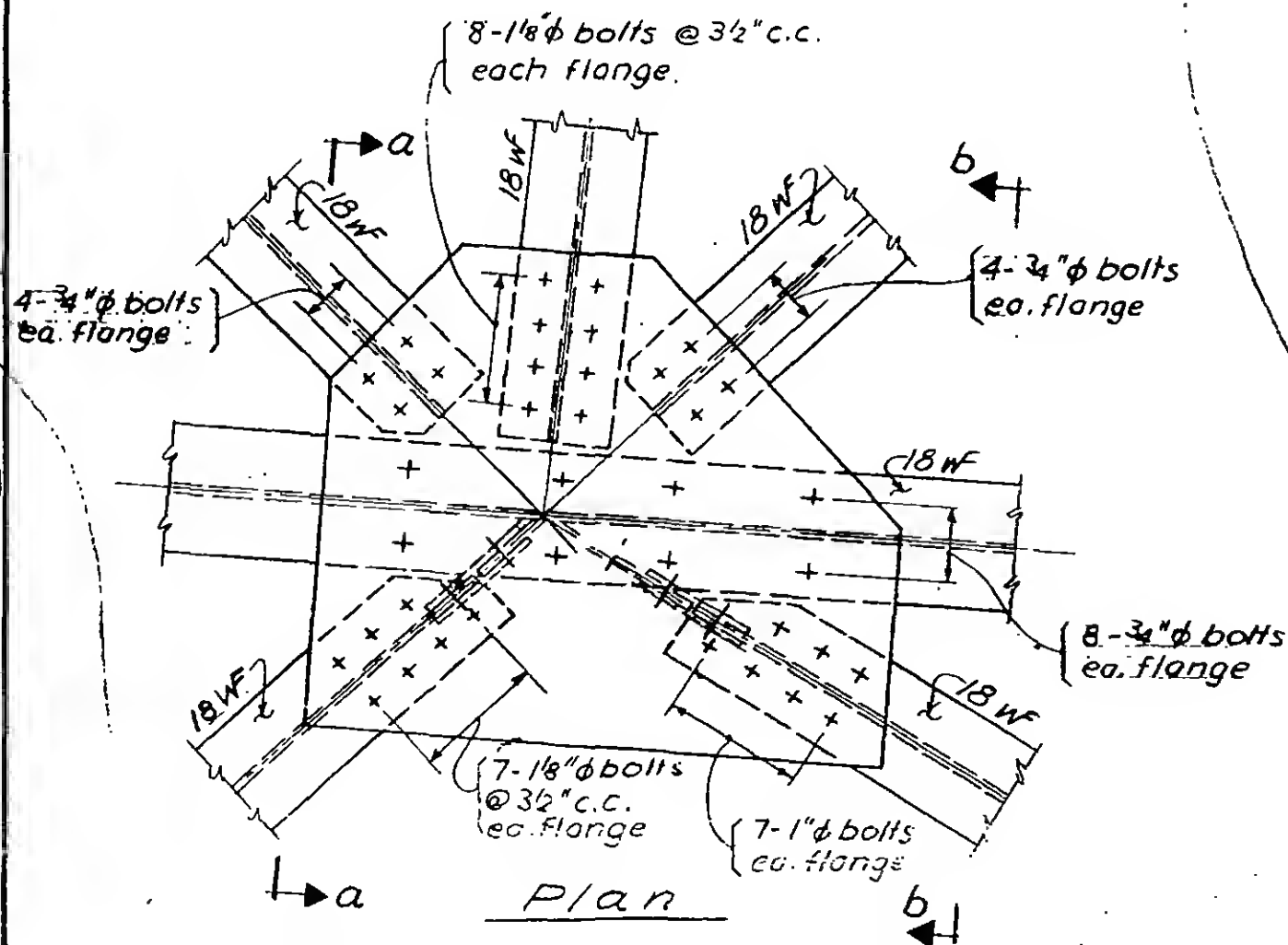
REVISIONS

9-29-67

10-4-67



Section a-a
 Section b-b, opp. hand

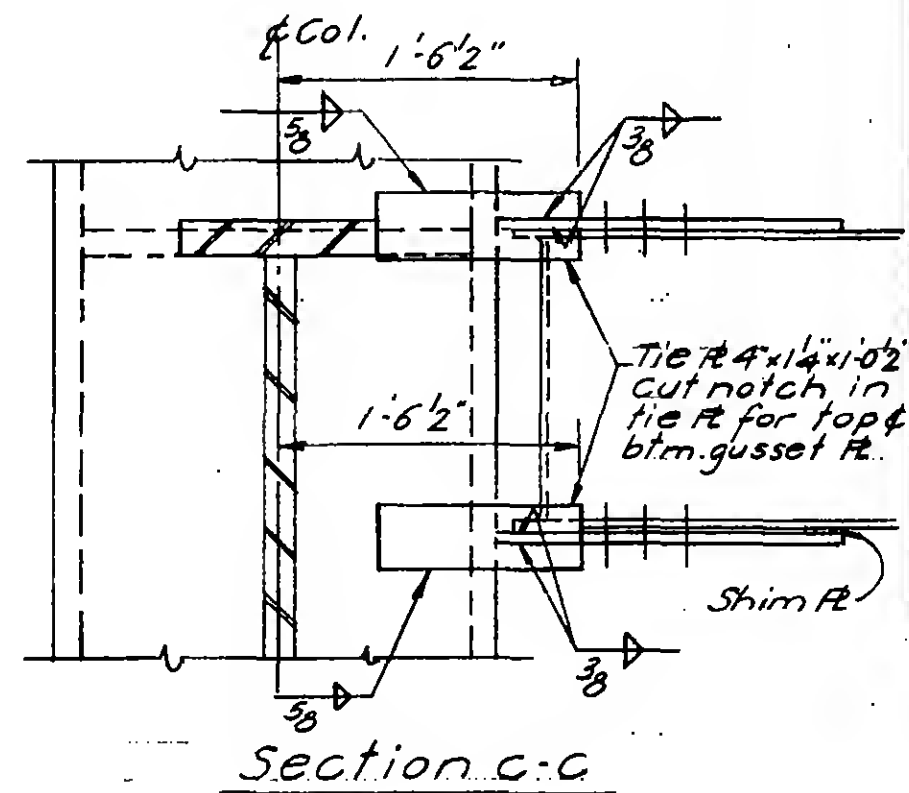
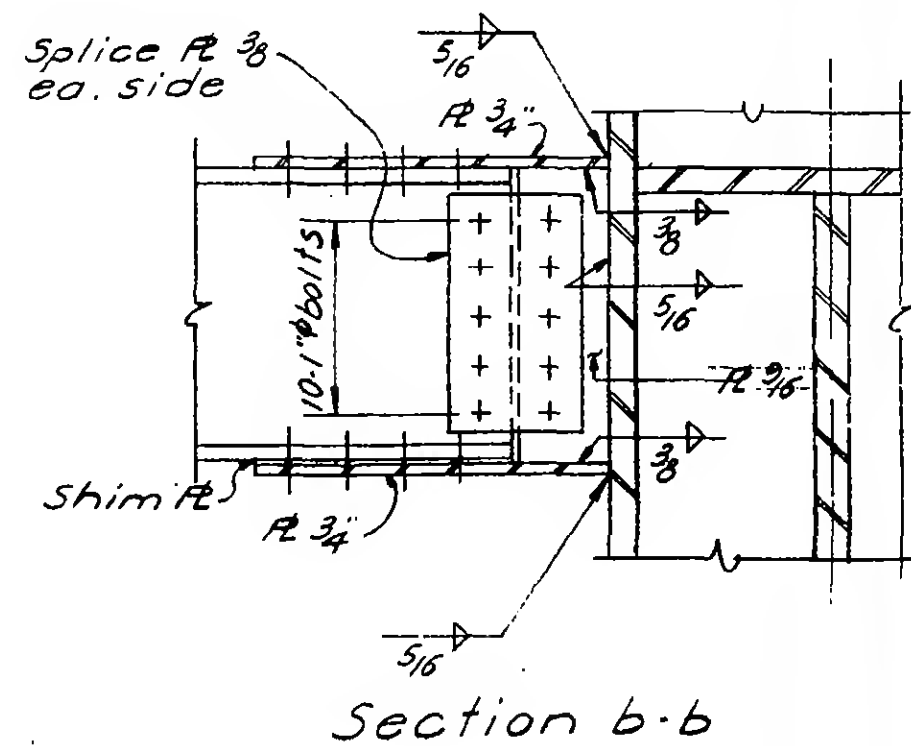
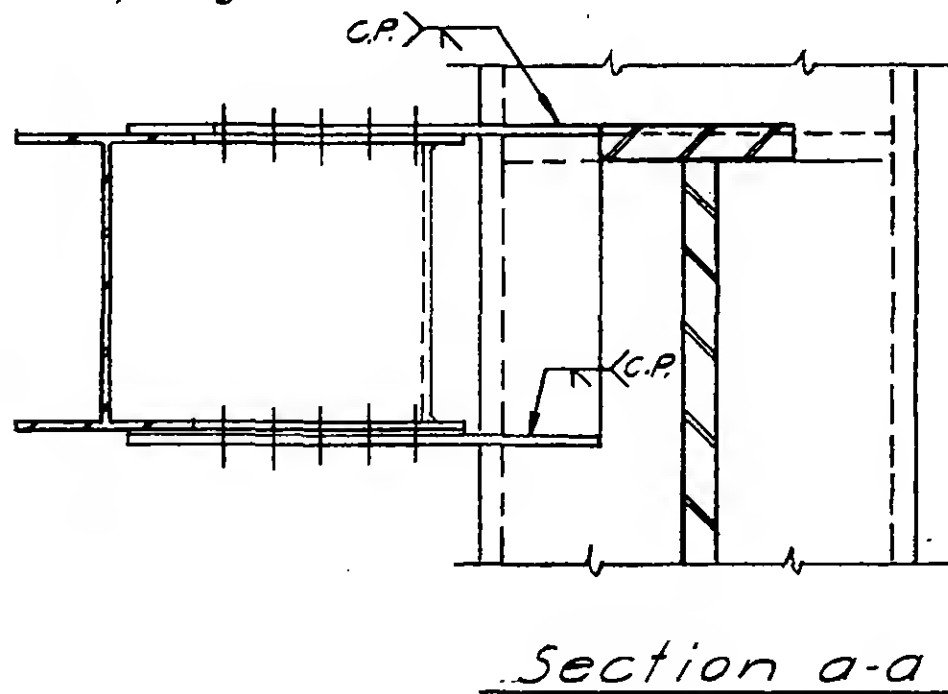
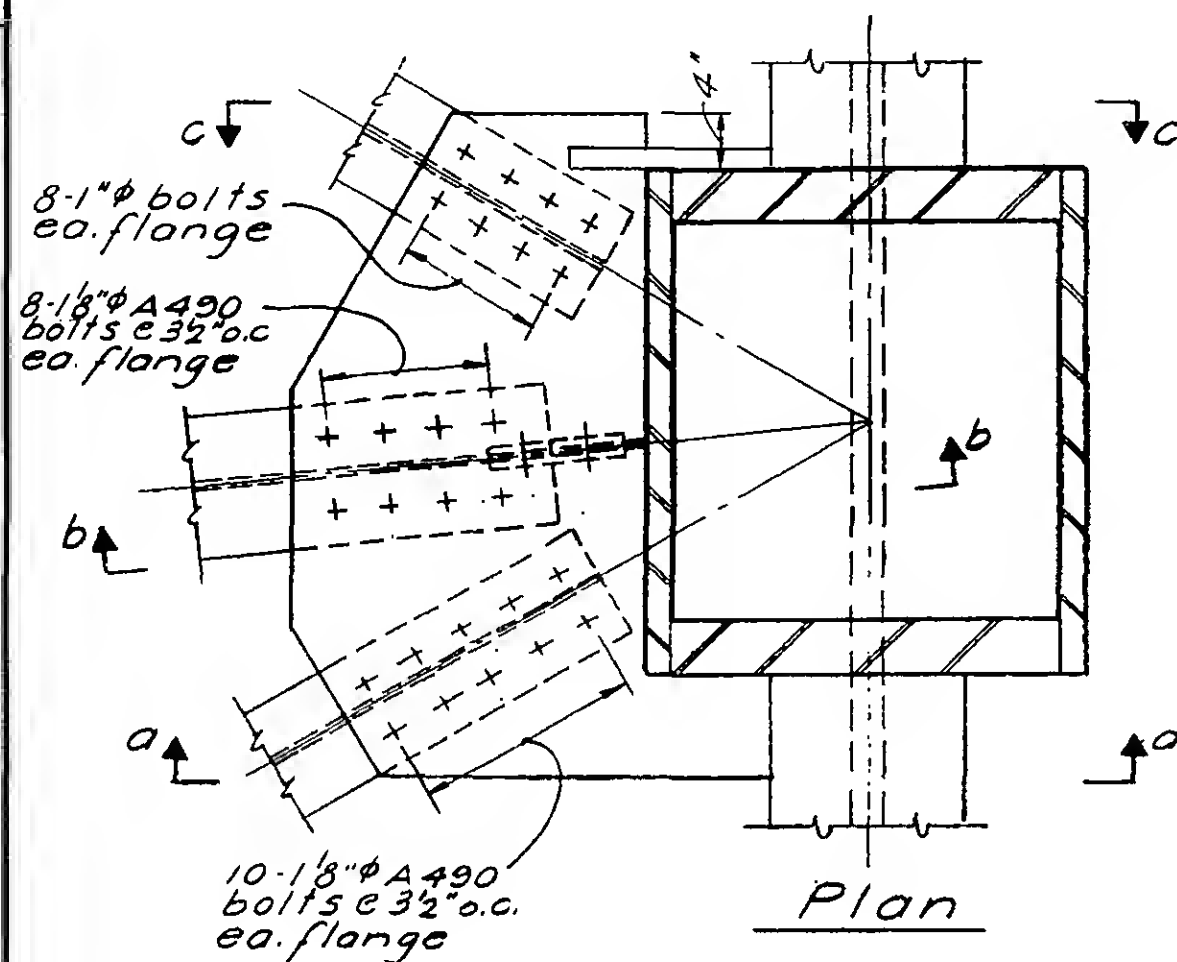


PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 872A

DATE 9-15-67

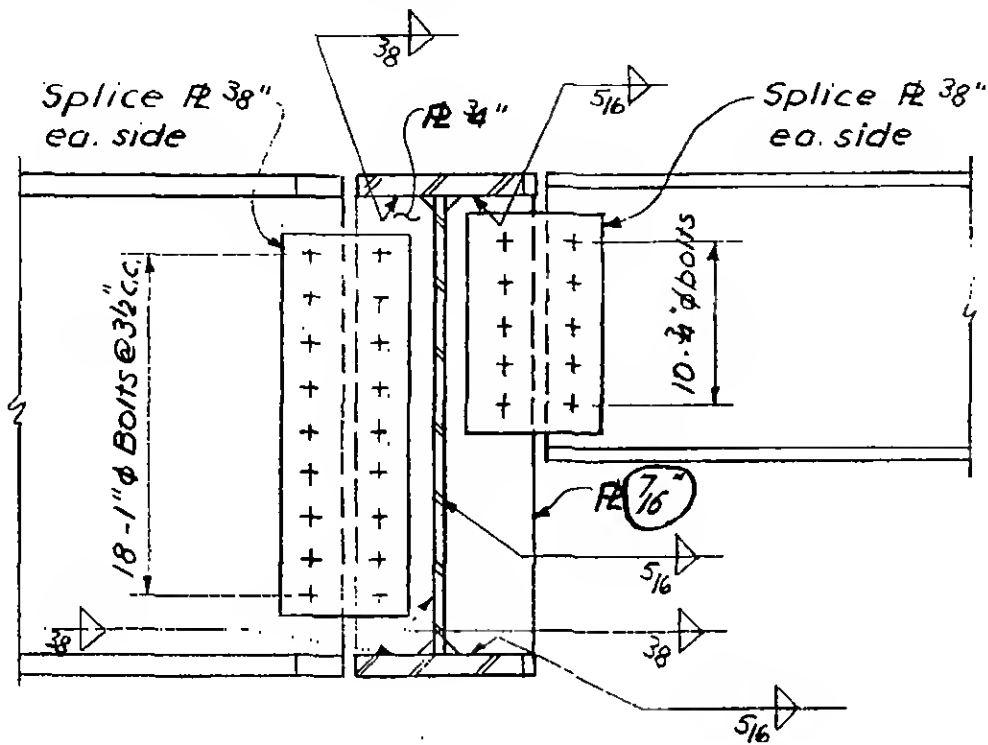
REVISIONS



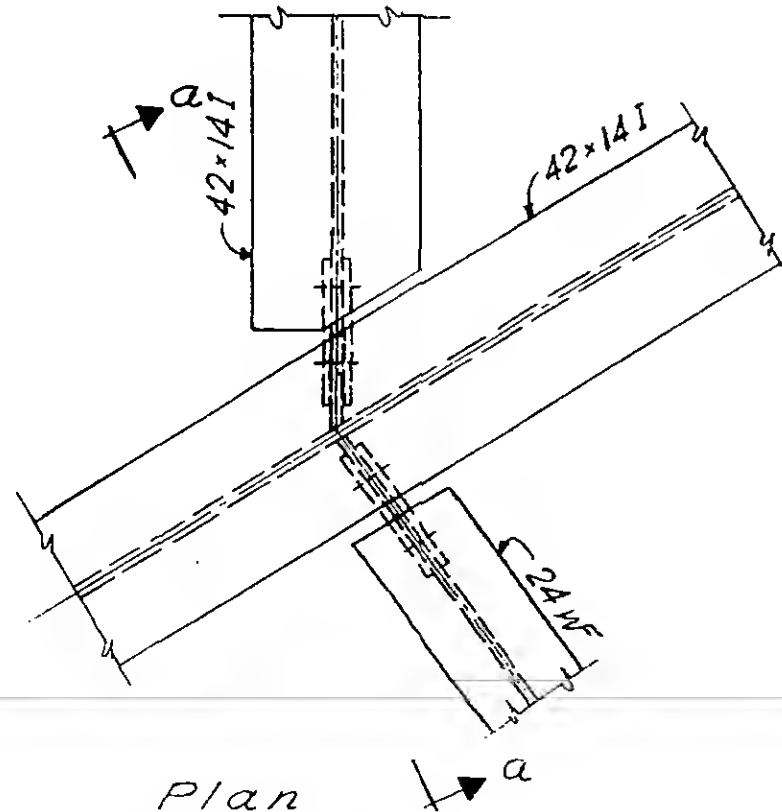
REVISIONS

9-27-67

10-31-67



Section a-a



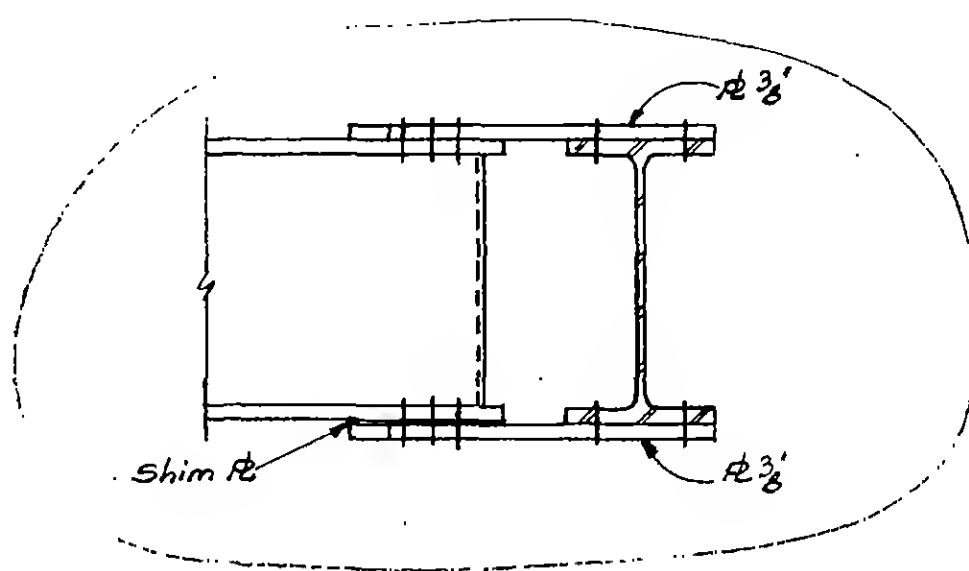
Plan



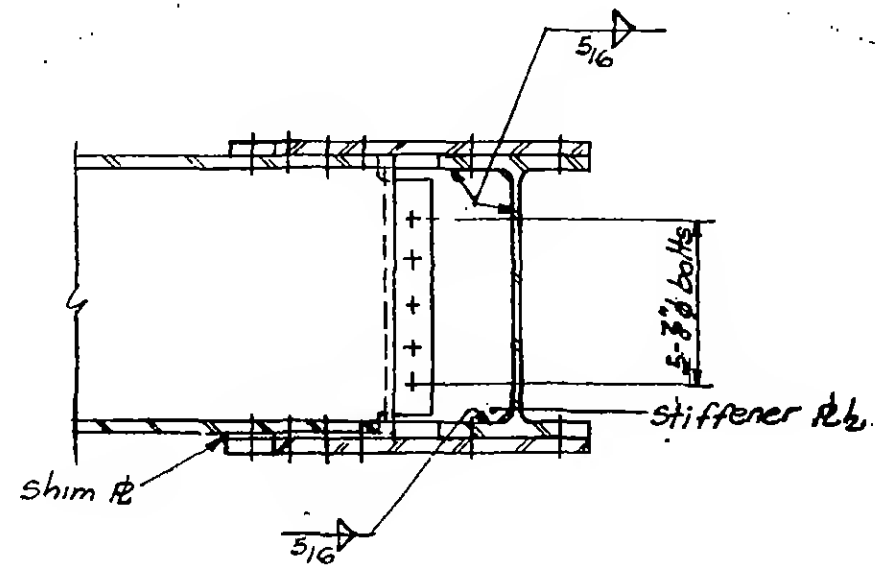
REVISIONS

9-29-67

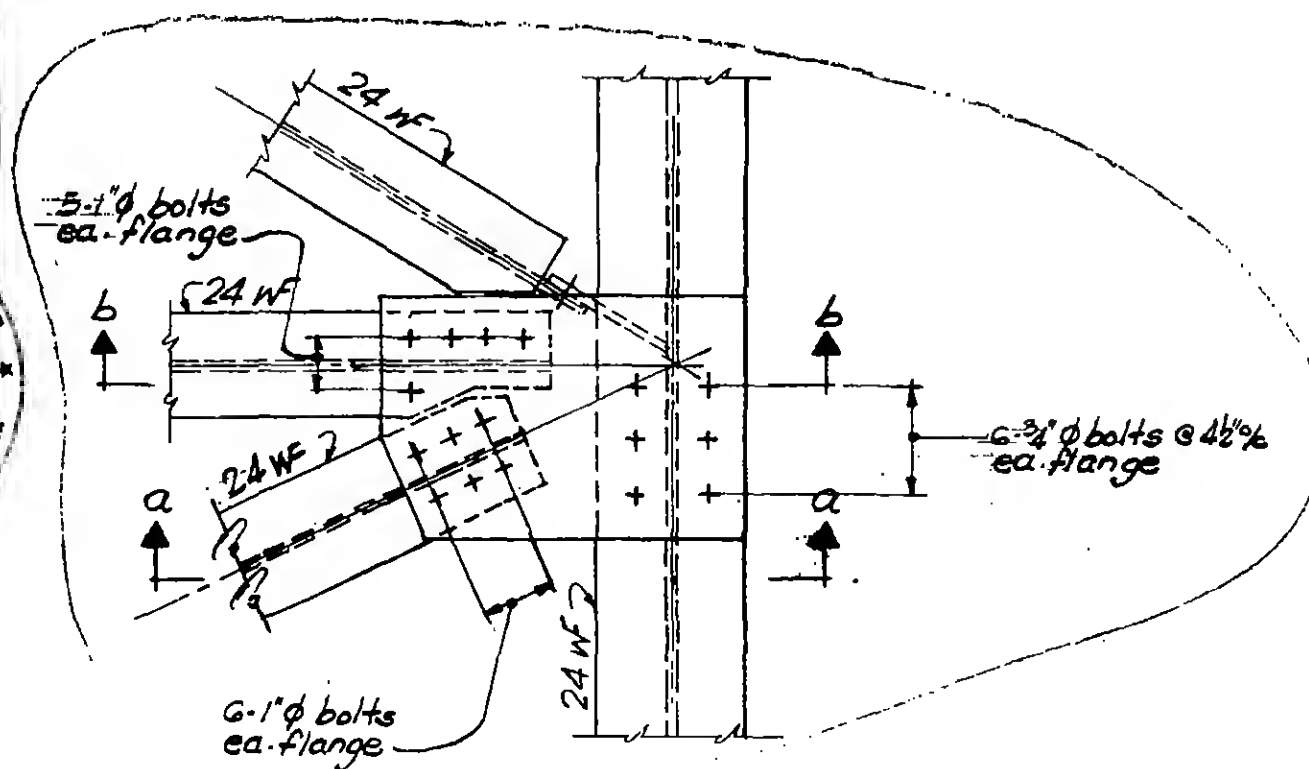
10-4-67



Section a-a



Section b-b



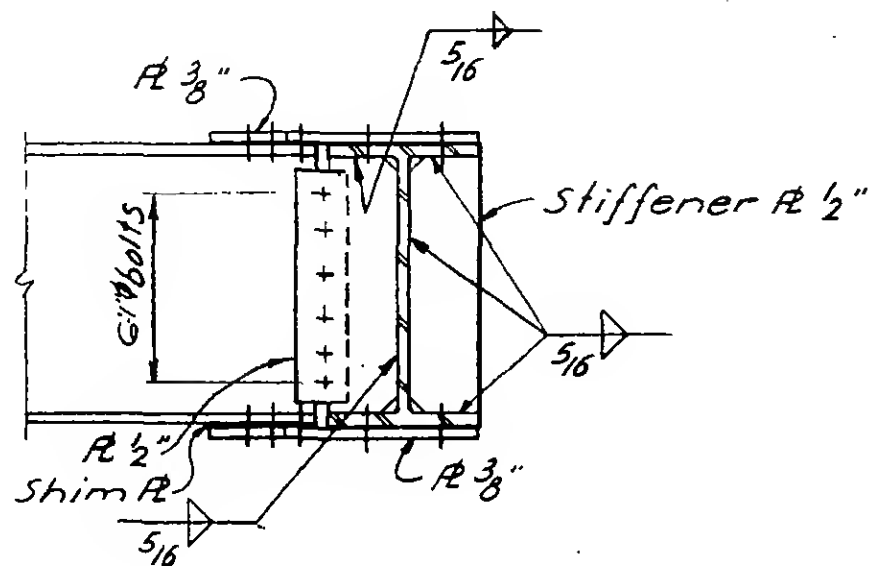
Plan



REVISIONS

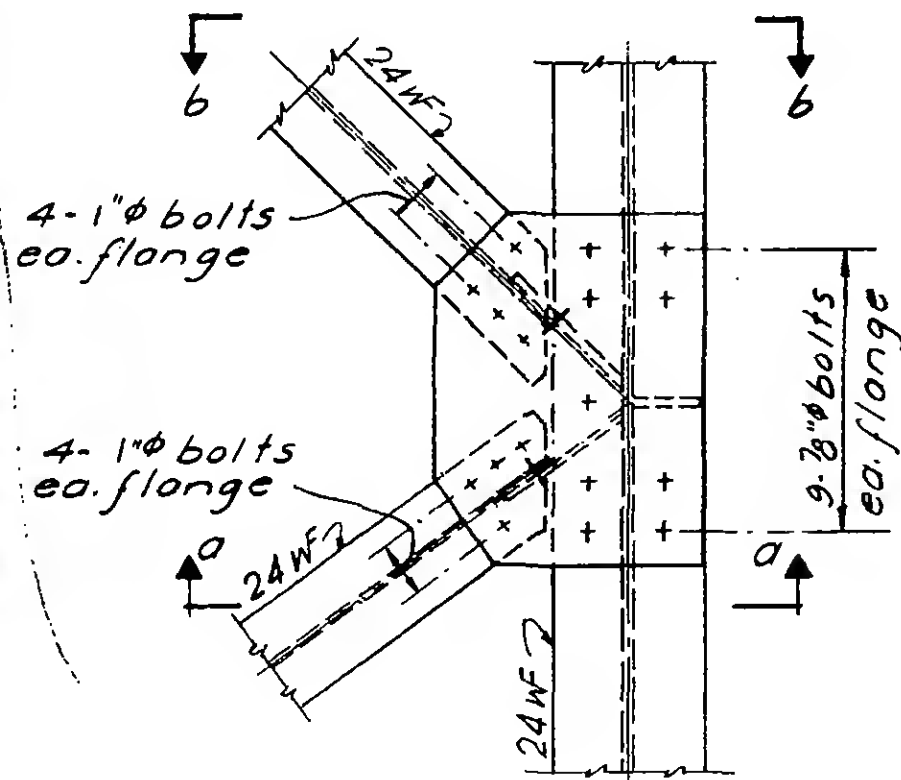
9-29-67

10-4-67

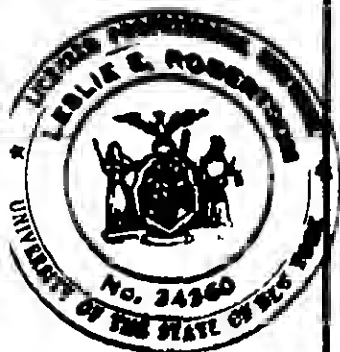


Section a-a

Section b-b, opp. hand



Plan



PROJECT

THE WORLD TRADE CENTER

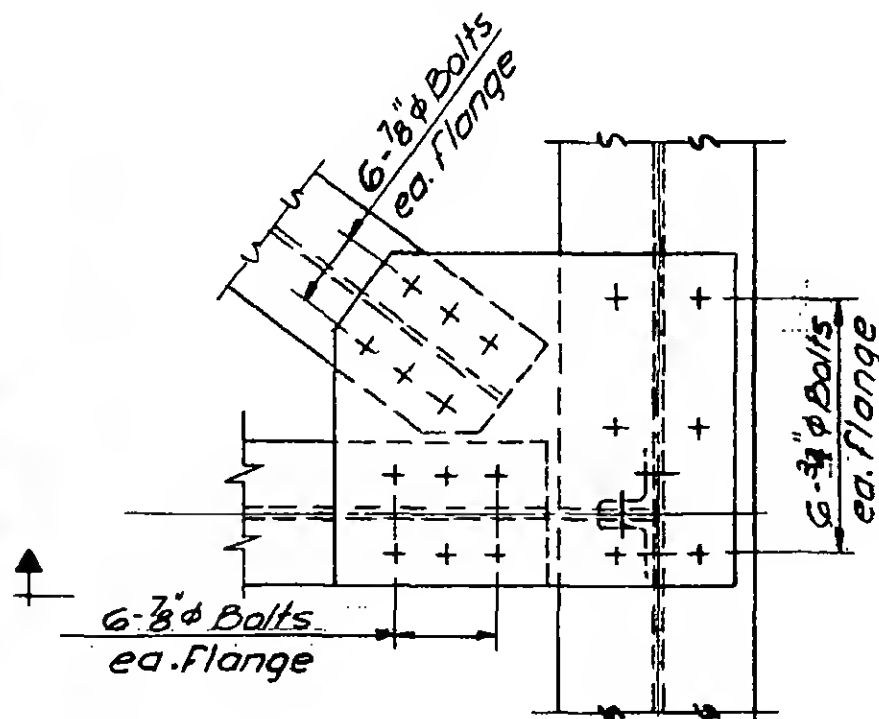
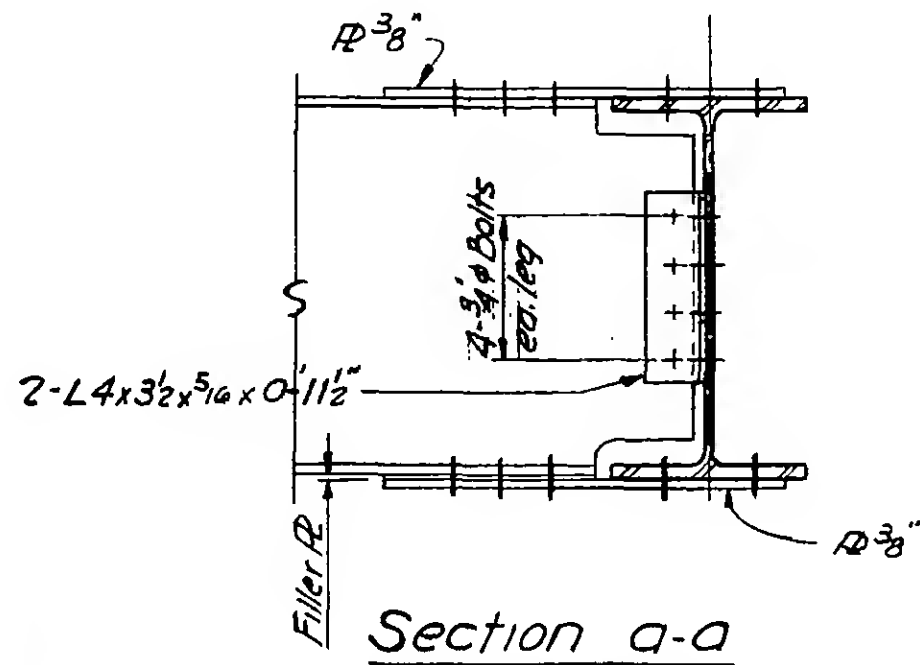
TITLE

CONNECTION DETAIL 876 A

DATE

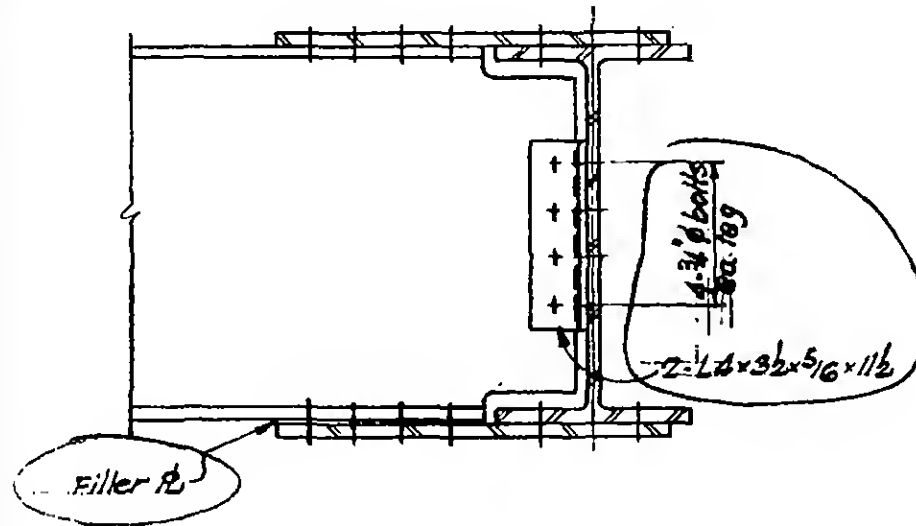
9-29-67

REVISIONS

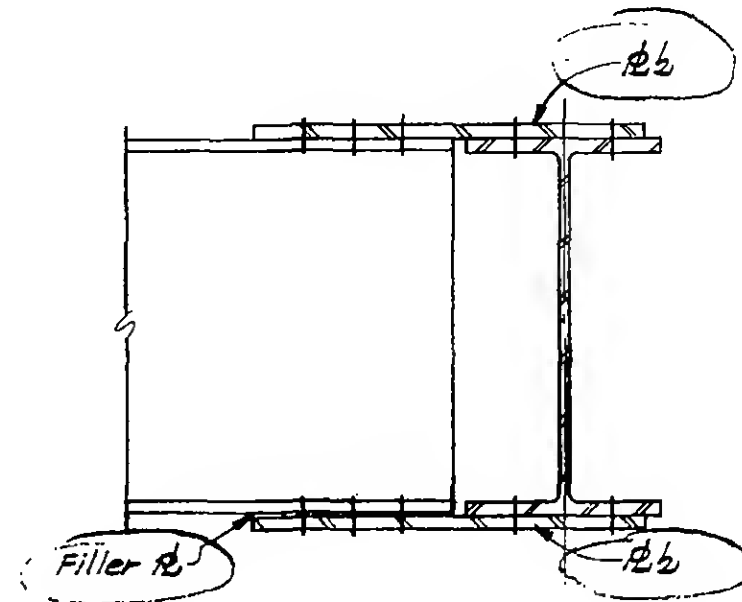


REVISIONS

9-20-67

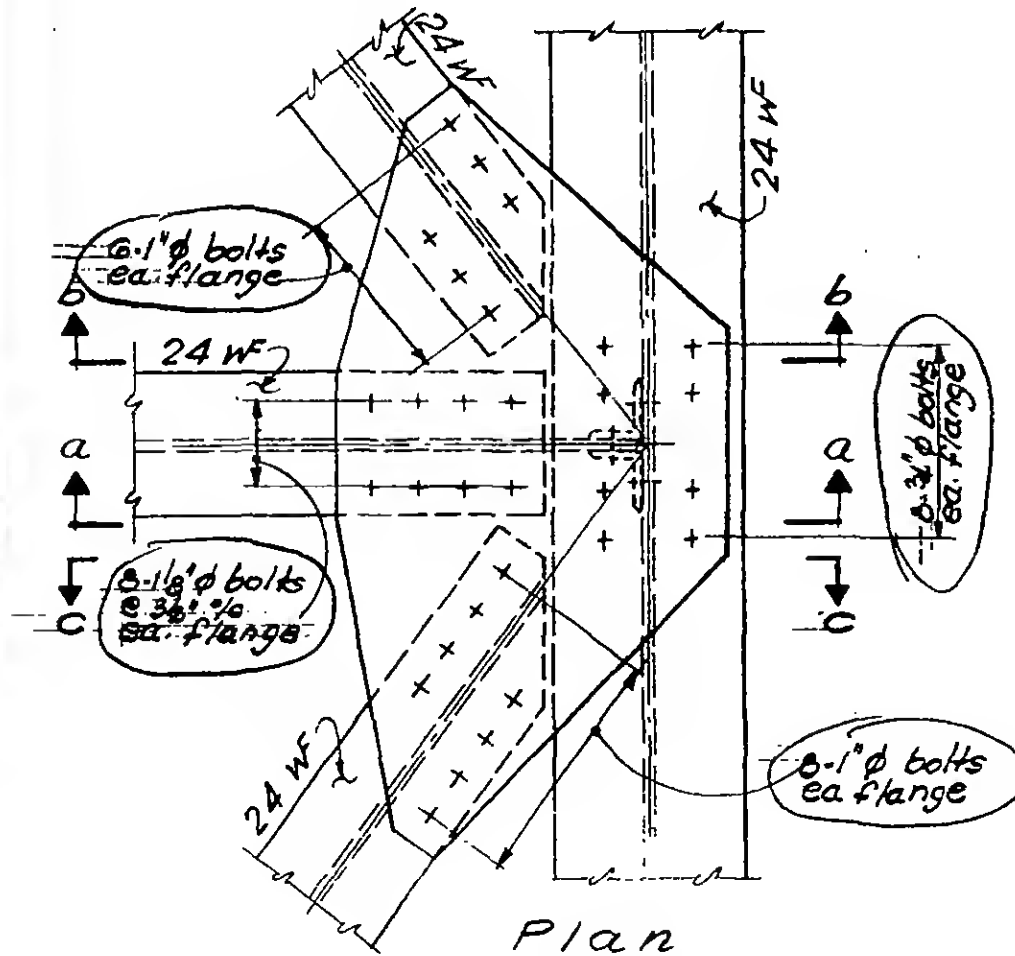


Section a-a

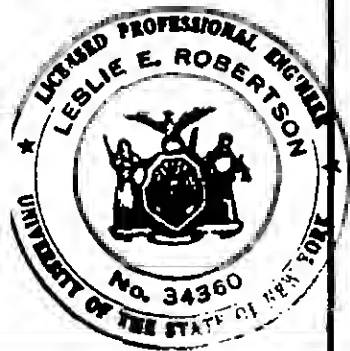


Section b-b

Section c-c, opposite hand



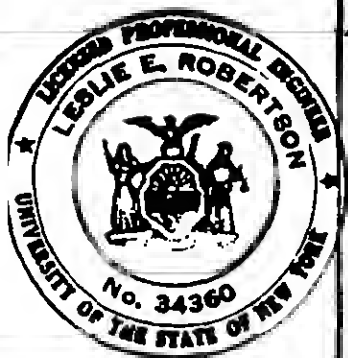
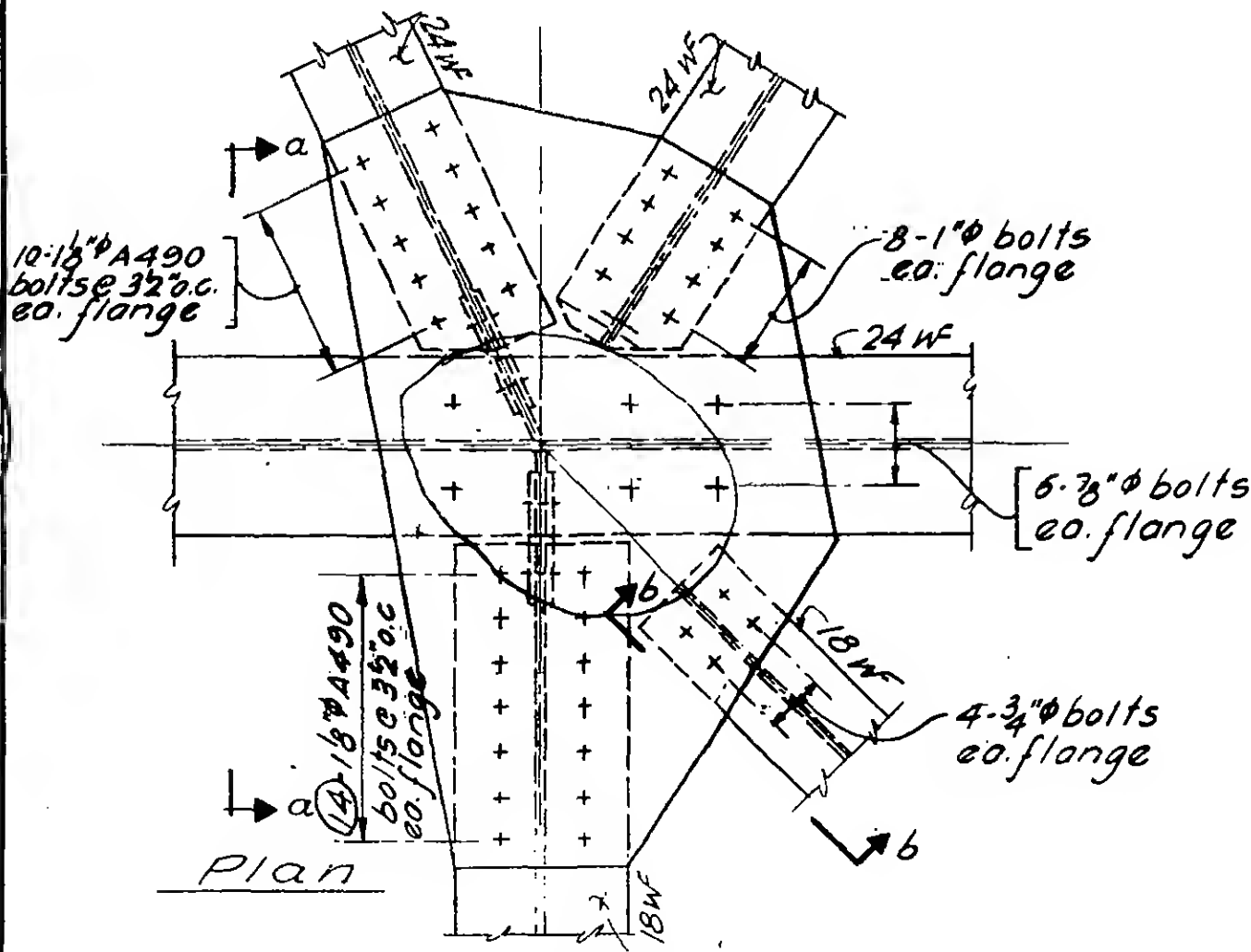
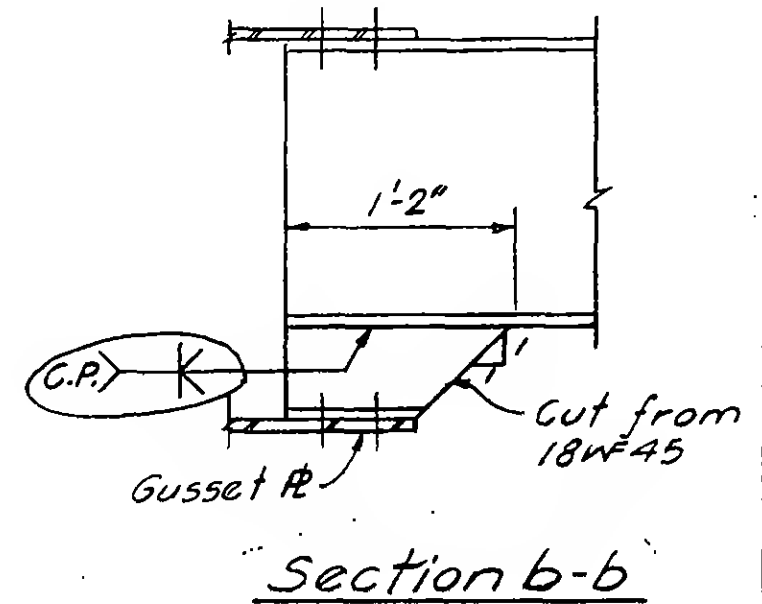
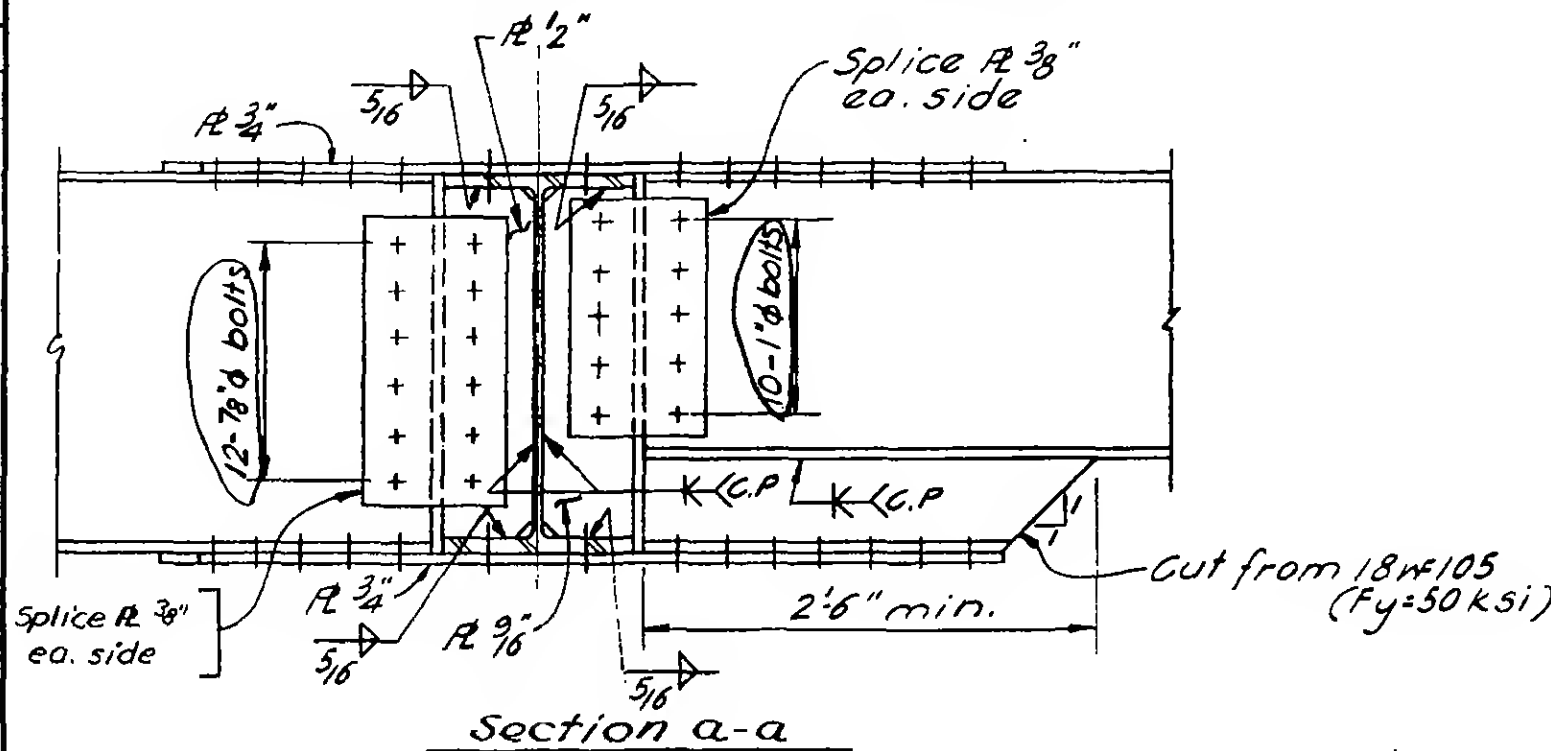
Plan



REVISIONS

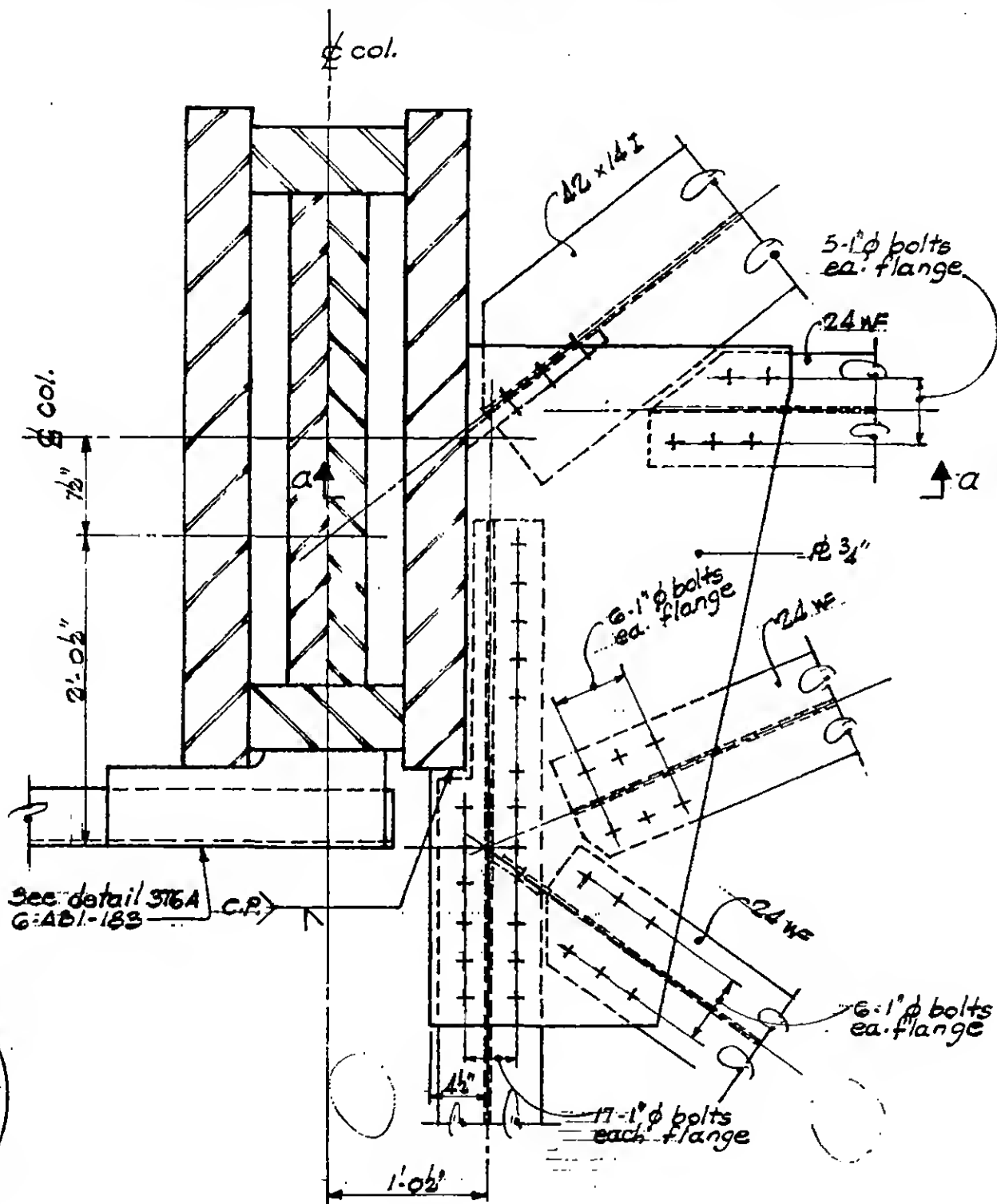
9-29-67

10-31-67

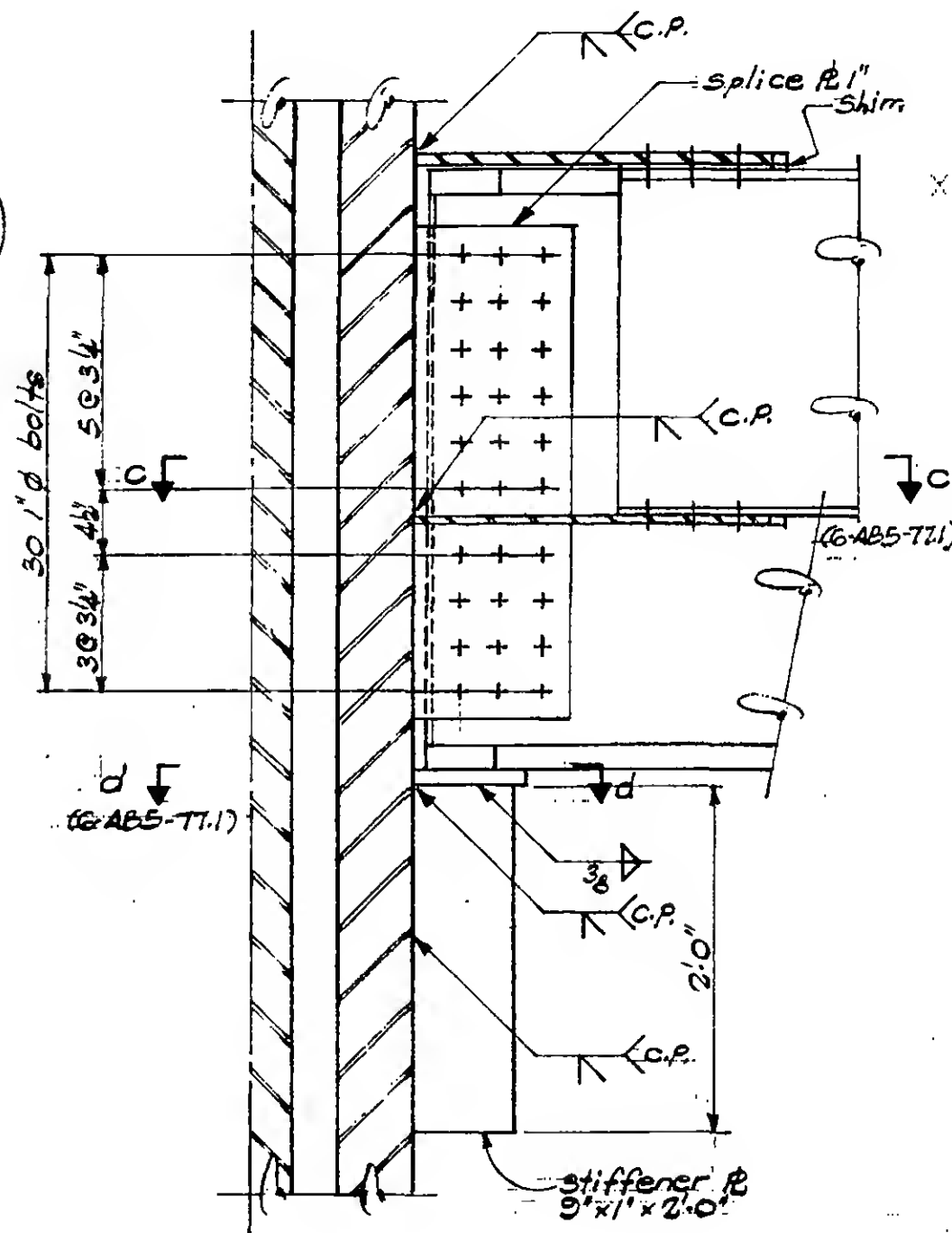


REVISIONS

10-31-67



PLAN



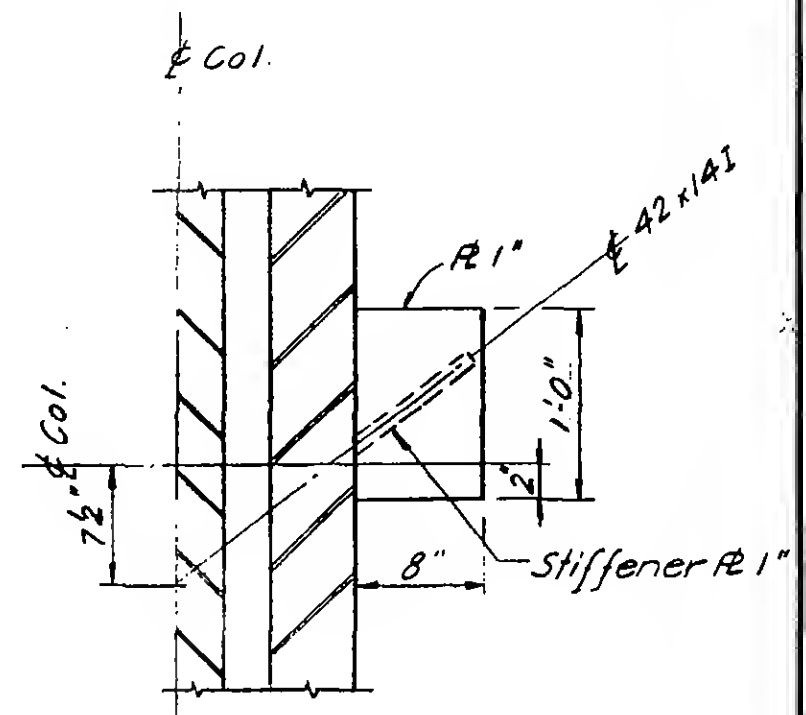
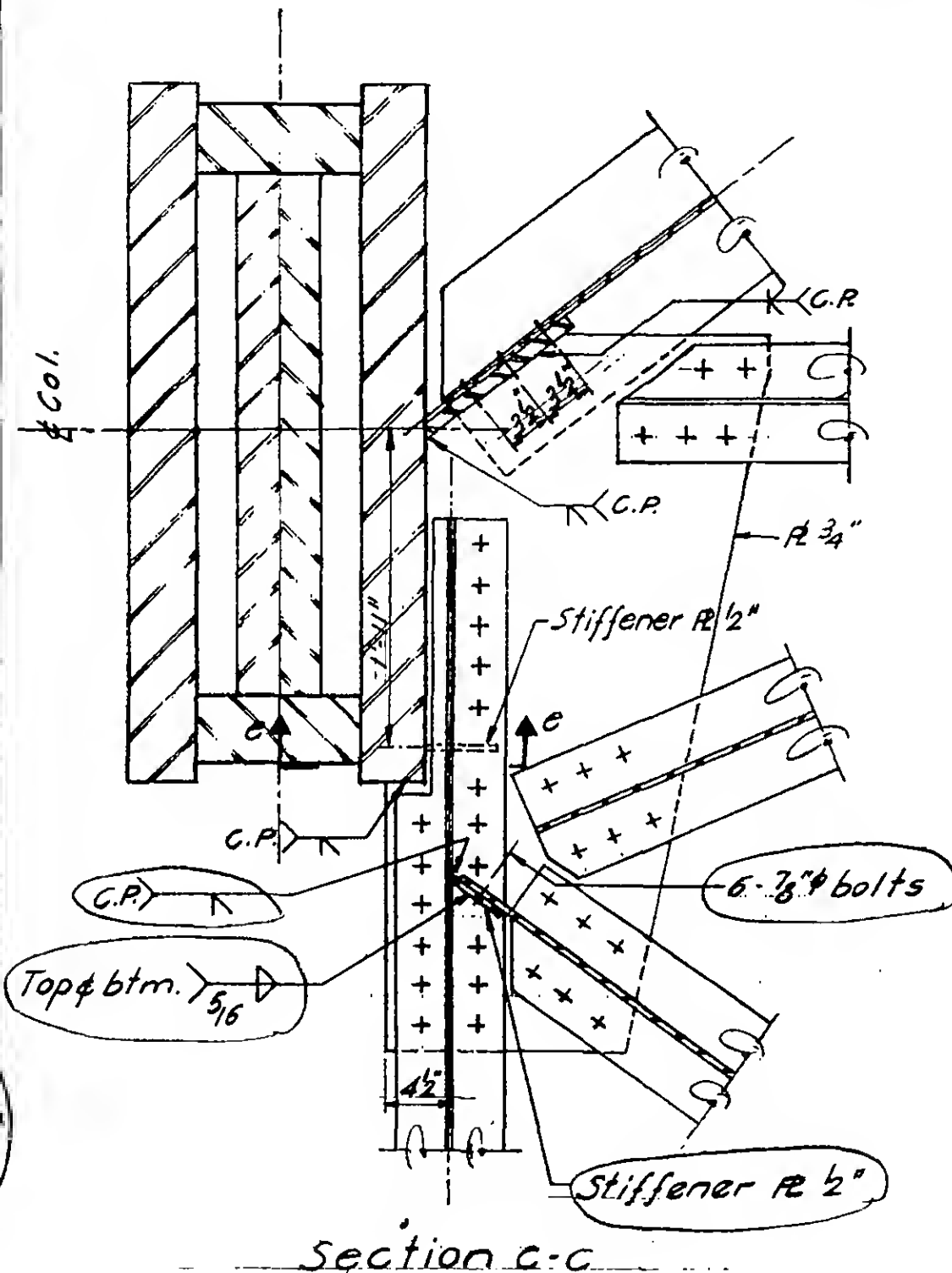
Section a-a



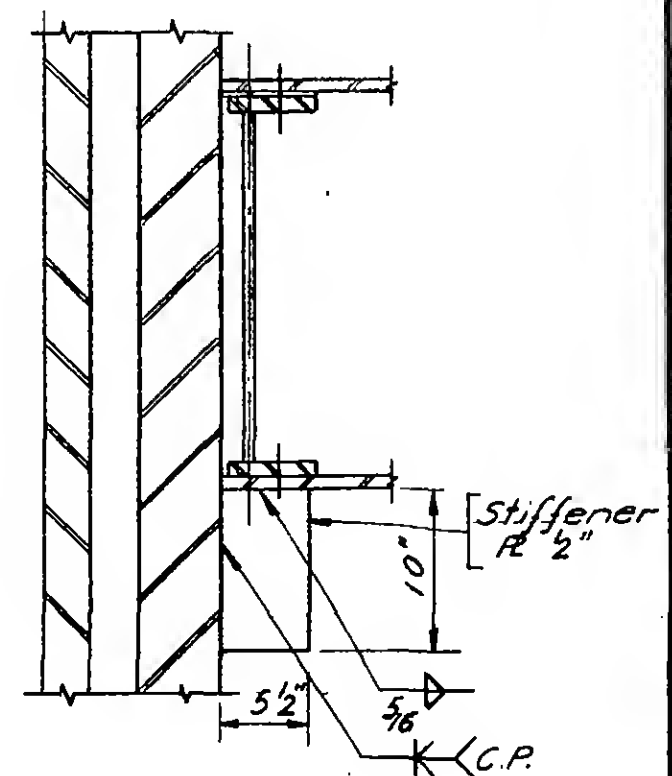
6-AB5-77

REVISIONS

10-31-67



Section d-d



Section e-e

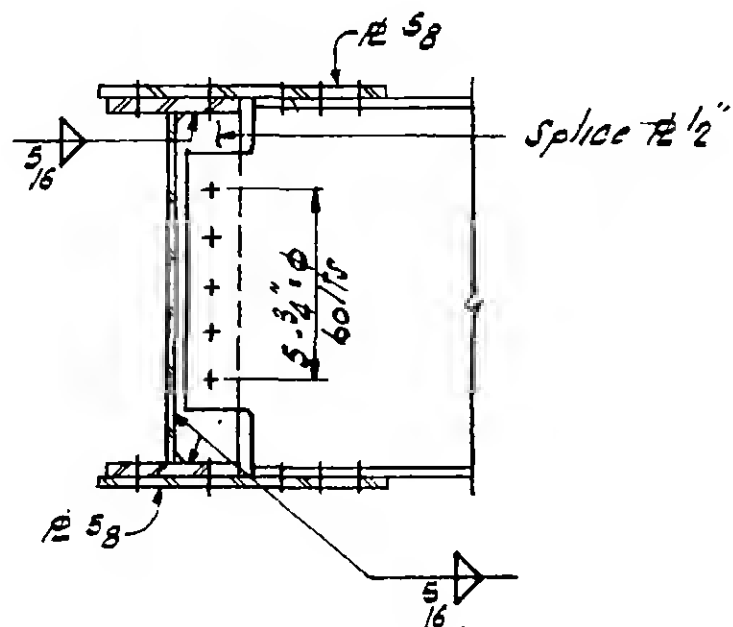


6-485-77.1

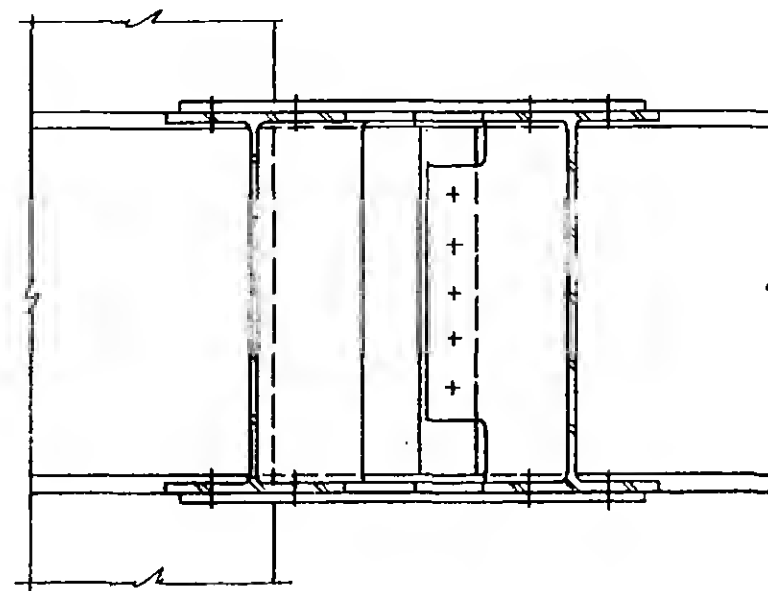
REVISIONS

9-29-67

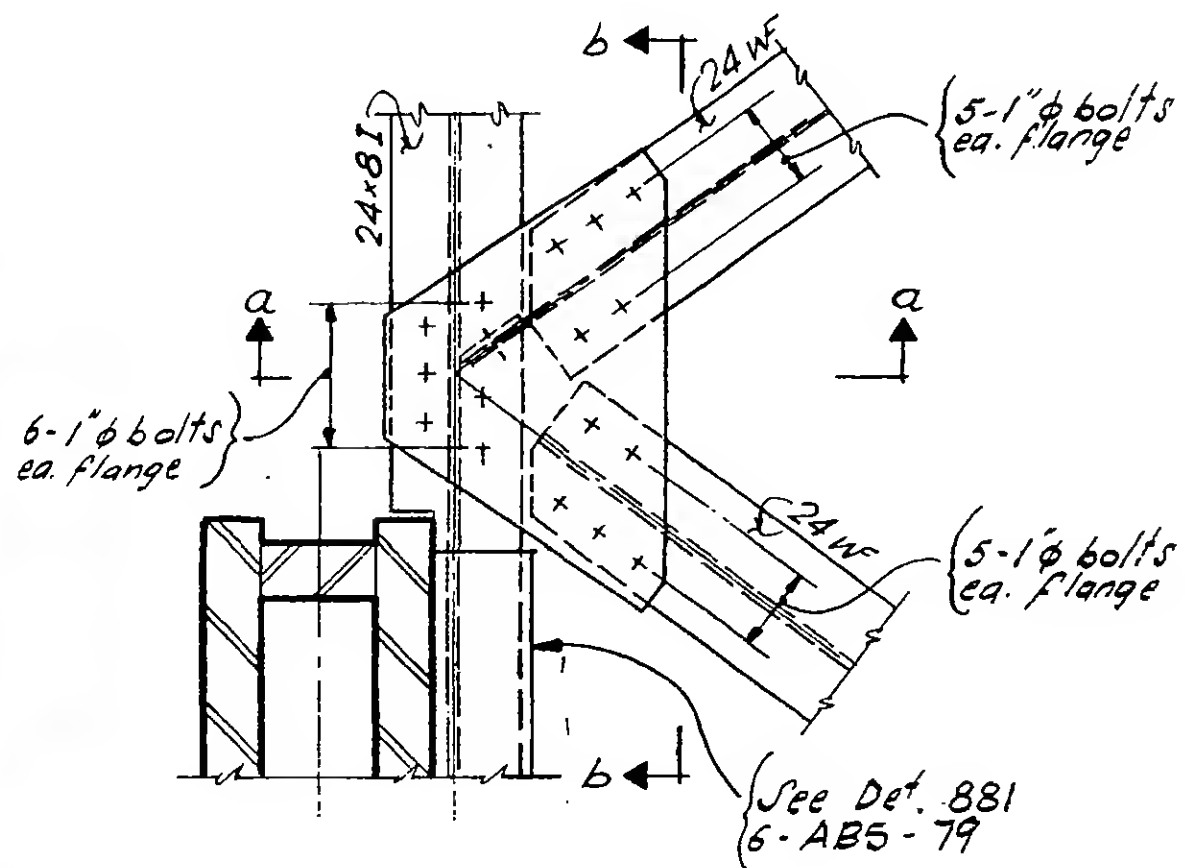
10-31-67



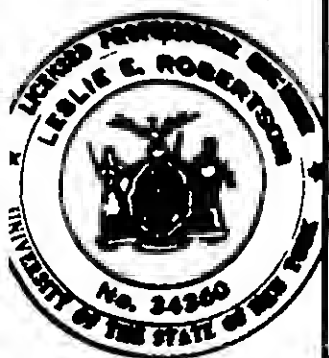
Section a-a



Section b-b



Plan



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 881A

DATE

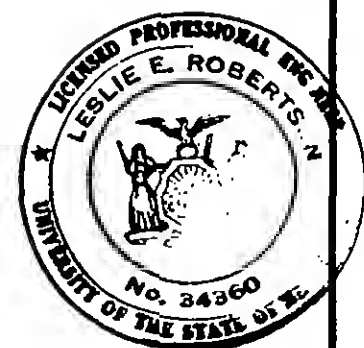
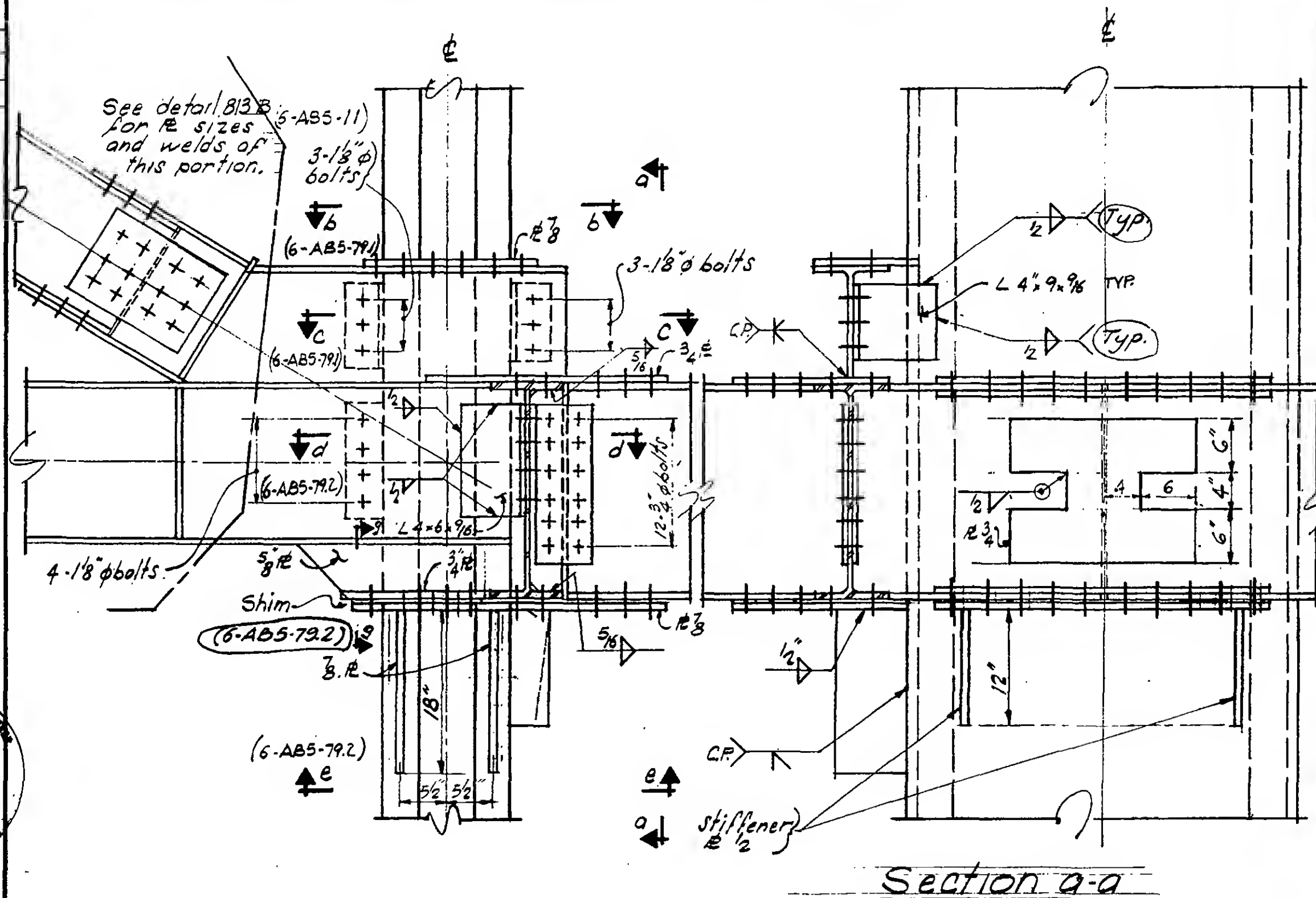
7-14-67

REVISIONS

8-14-67

4-21-67

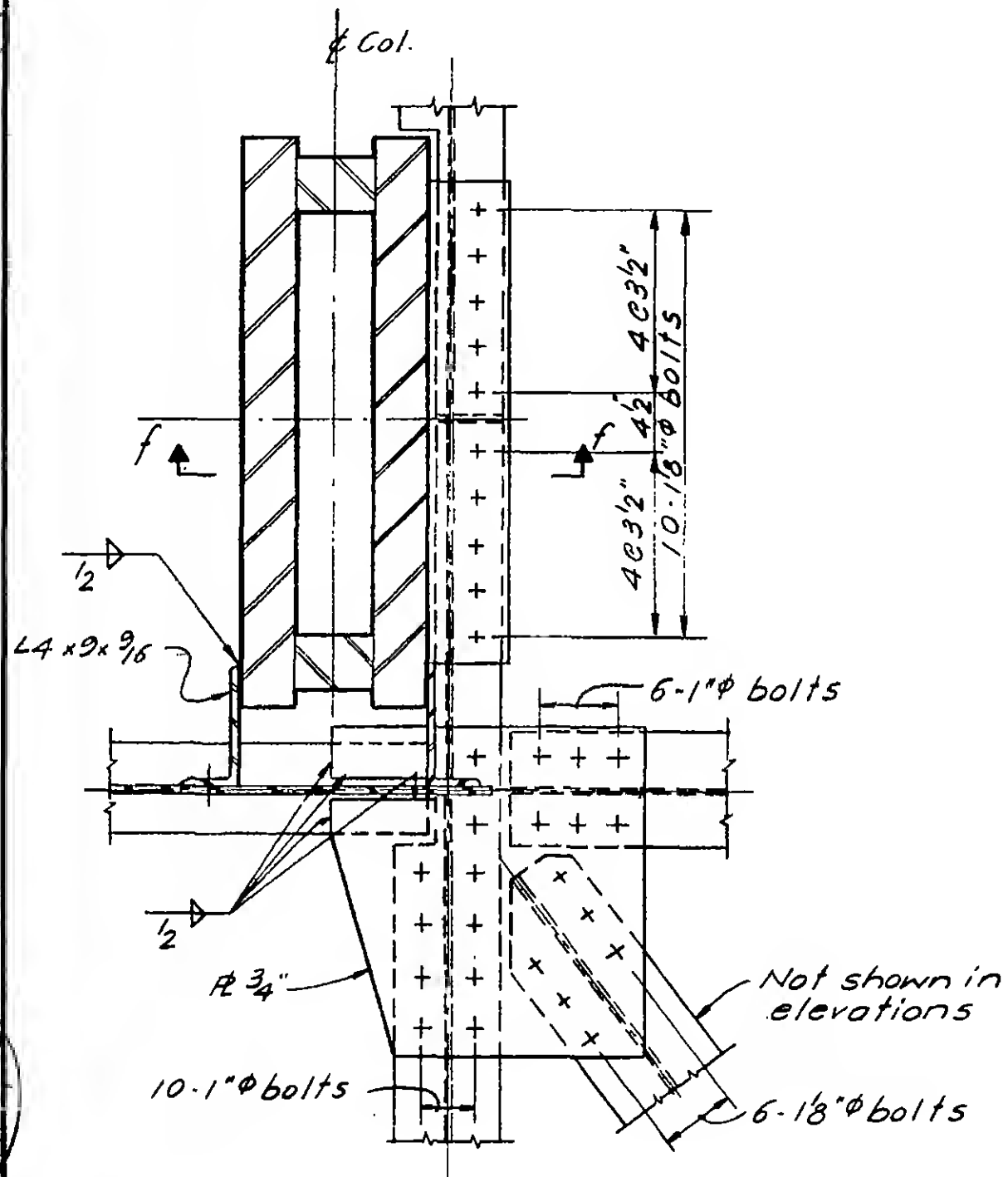
10-31-67



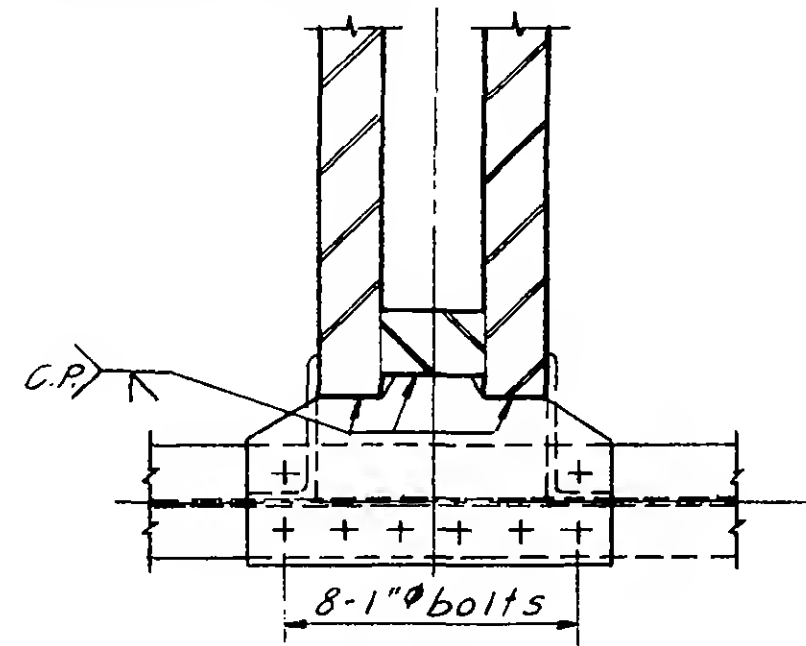
6-AB5-79

REVISIONS

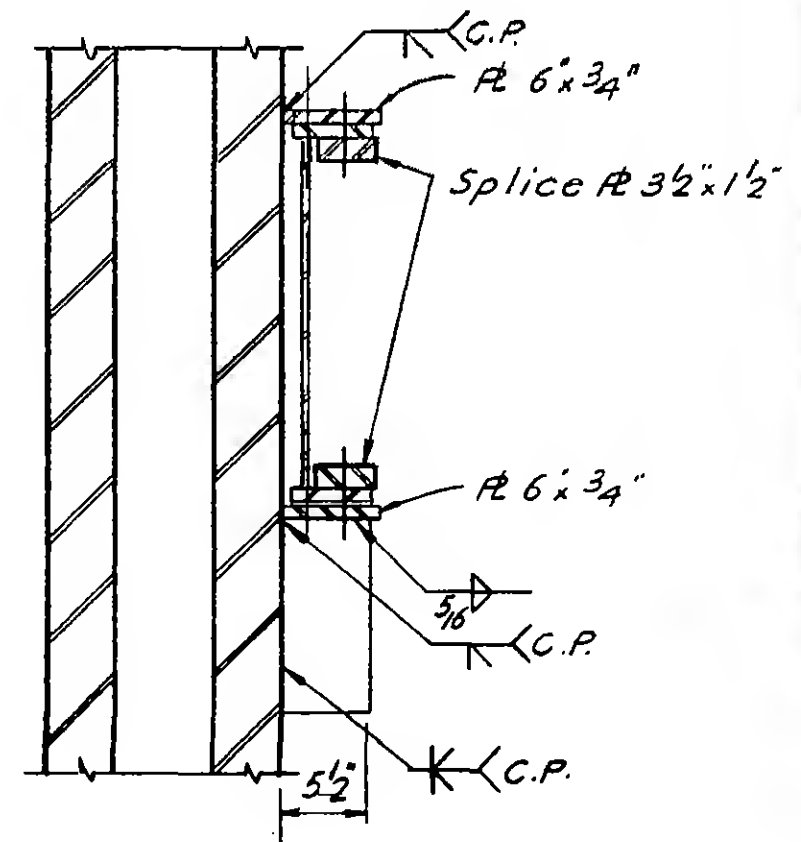
10-31-67



Section c-c



Section b-b



Section f-f



6-AB5-79.1

PROJECT THE WORLD TRADE CENTER

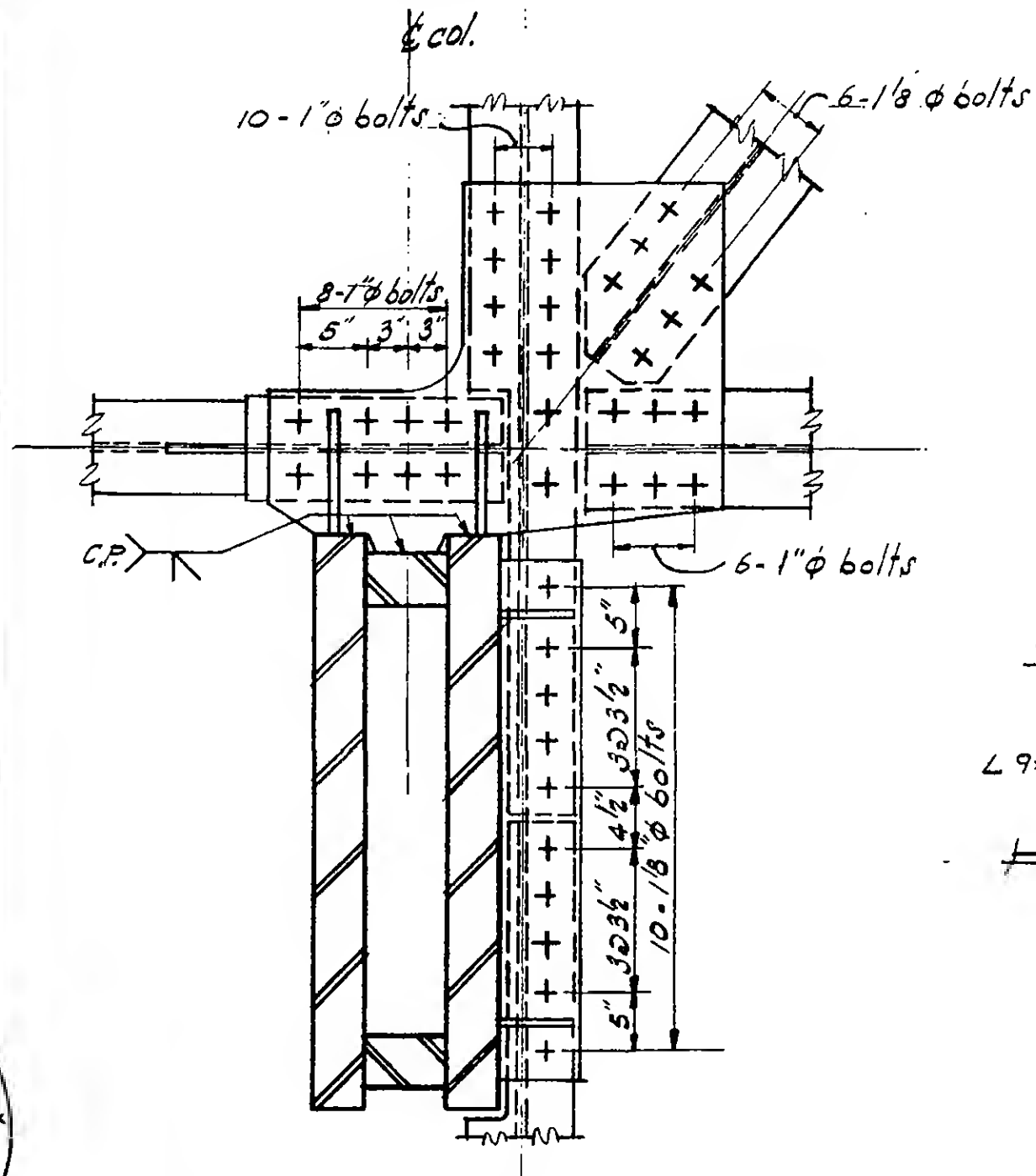
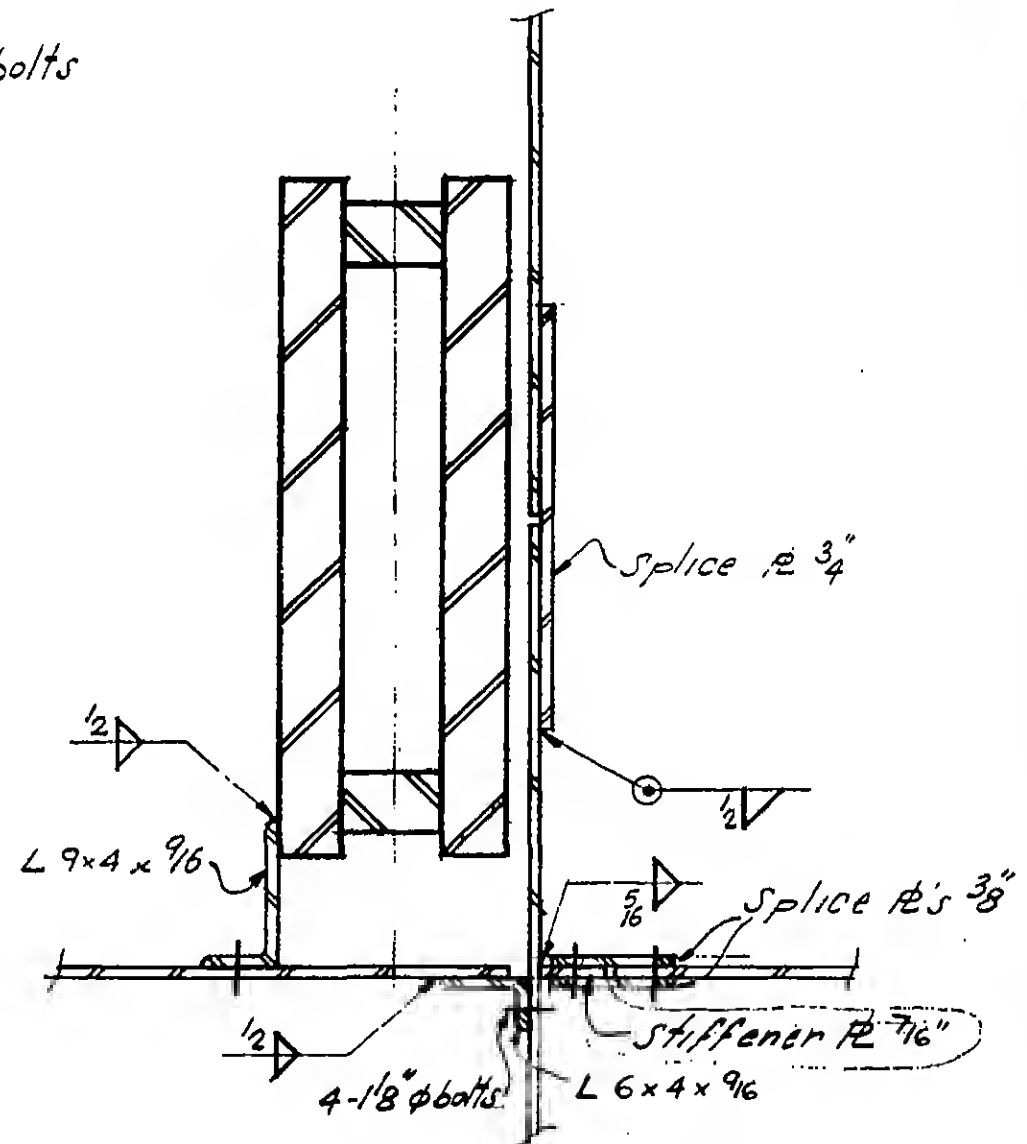
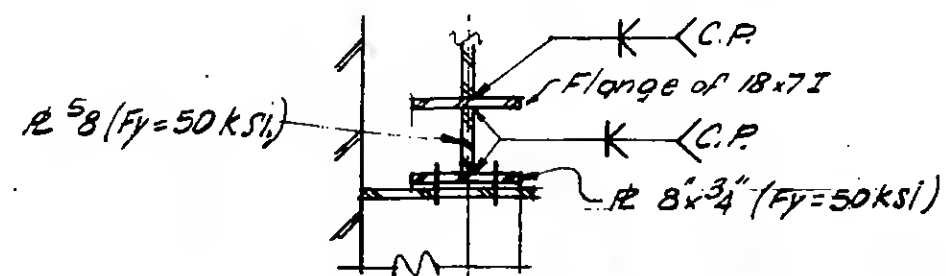
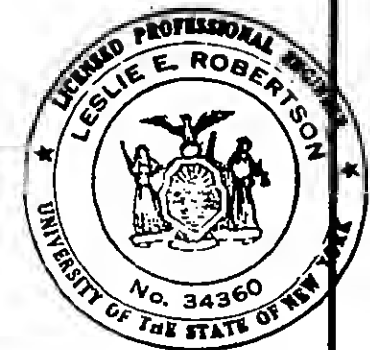
TITLE CONNECTION DETAIL 88(A)

DATE 7-14-67

REVISIONS

9-29-67

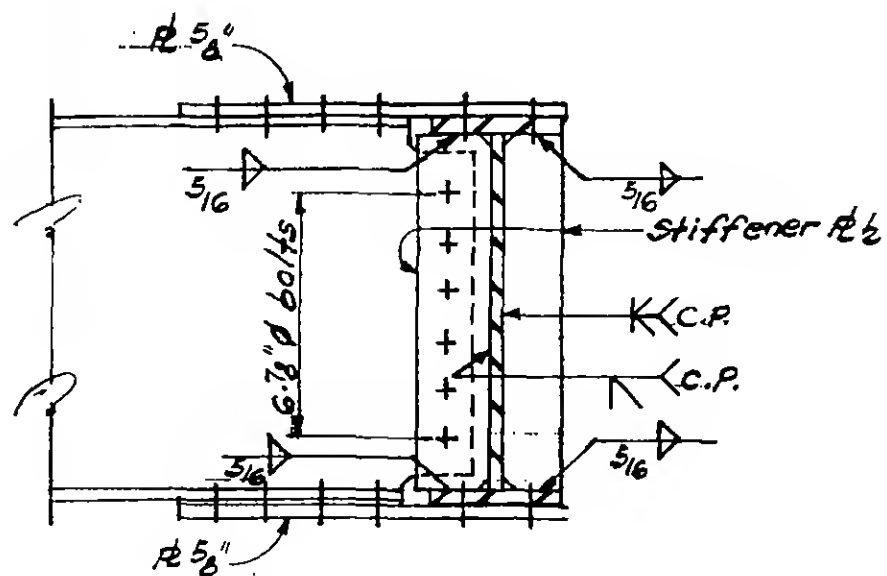
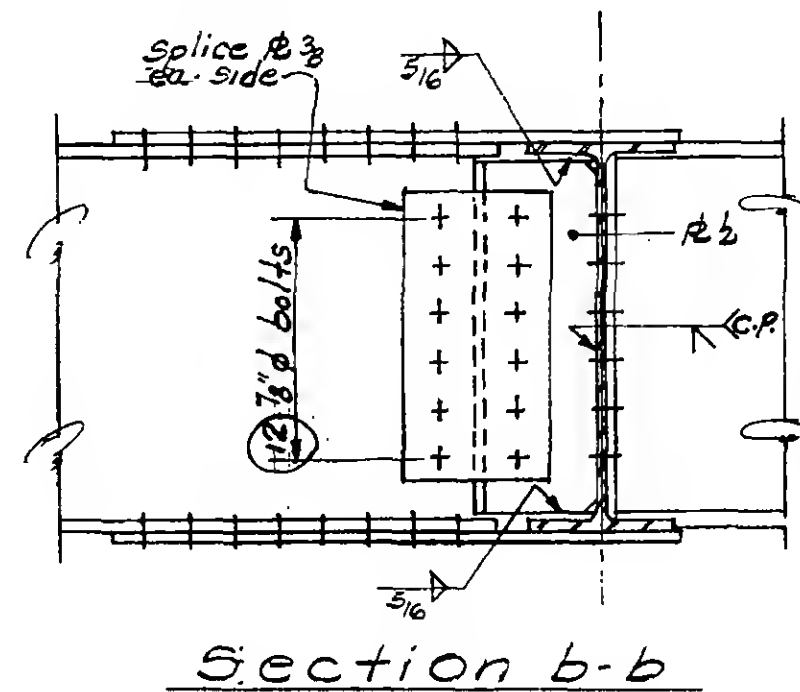
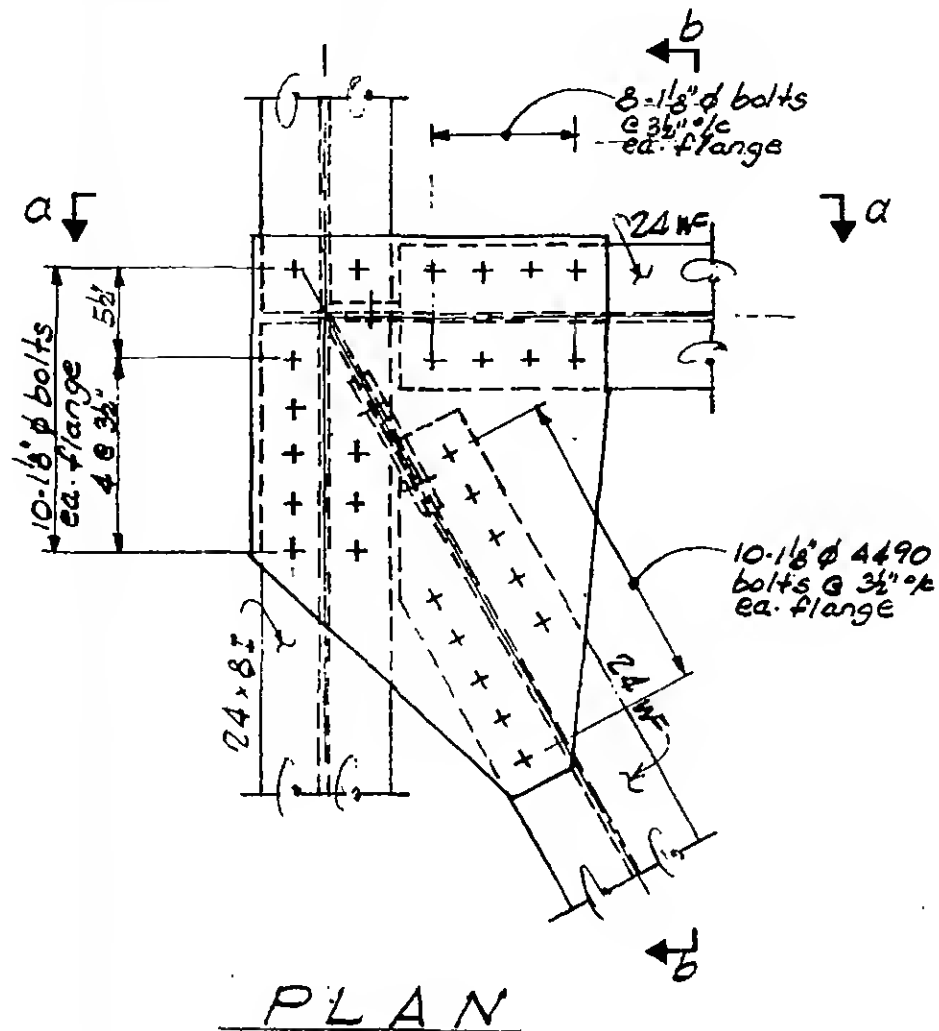
10-31-67

Section e-eSection d-dSection g-g

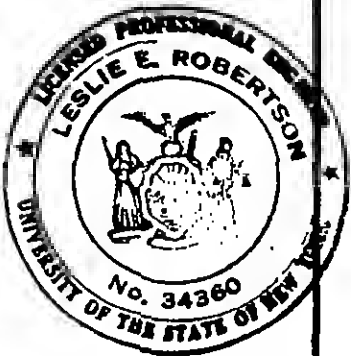
REVISIONS

9-29-67

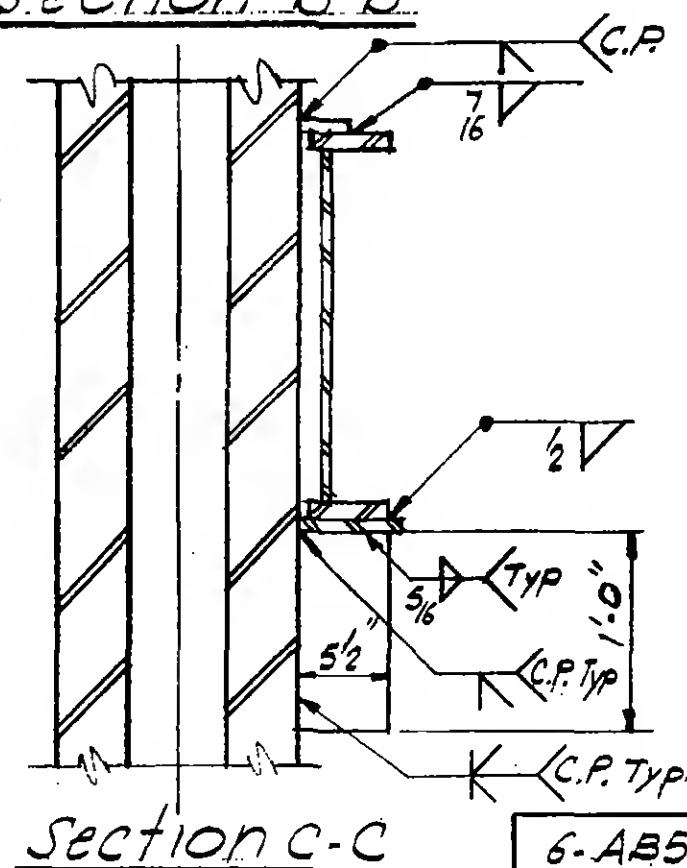
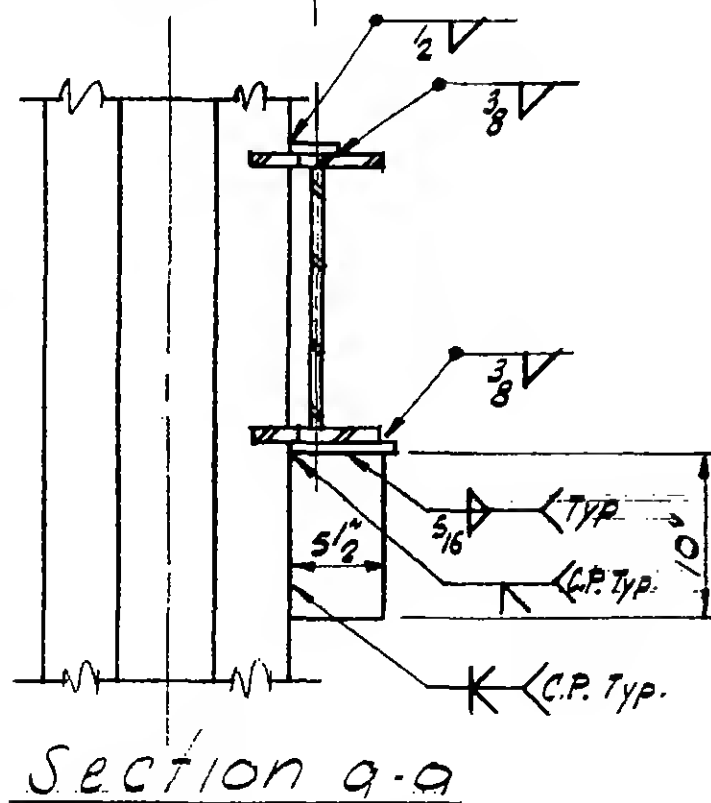
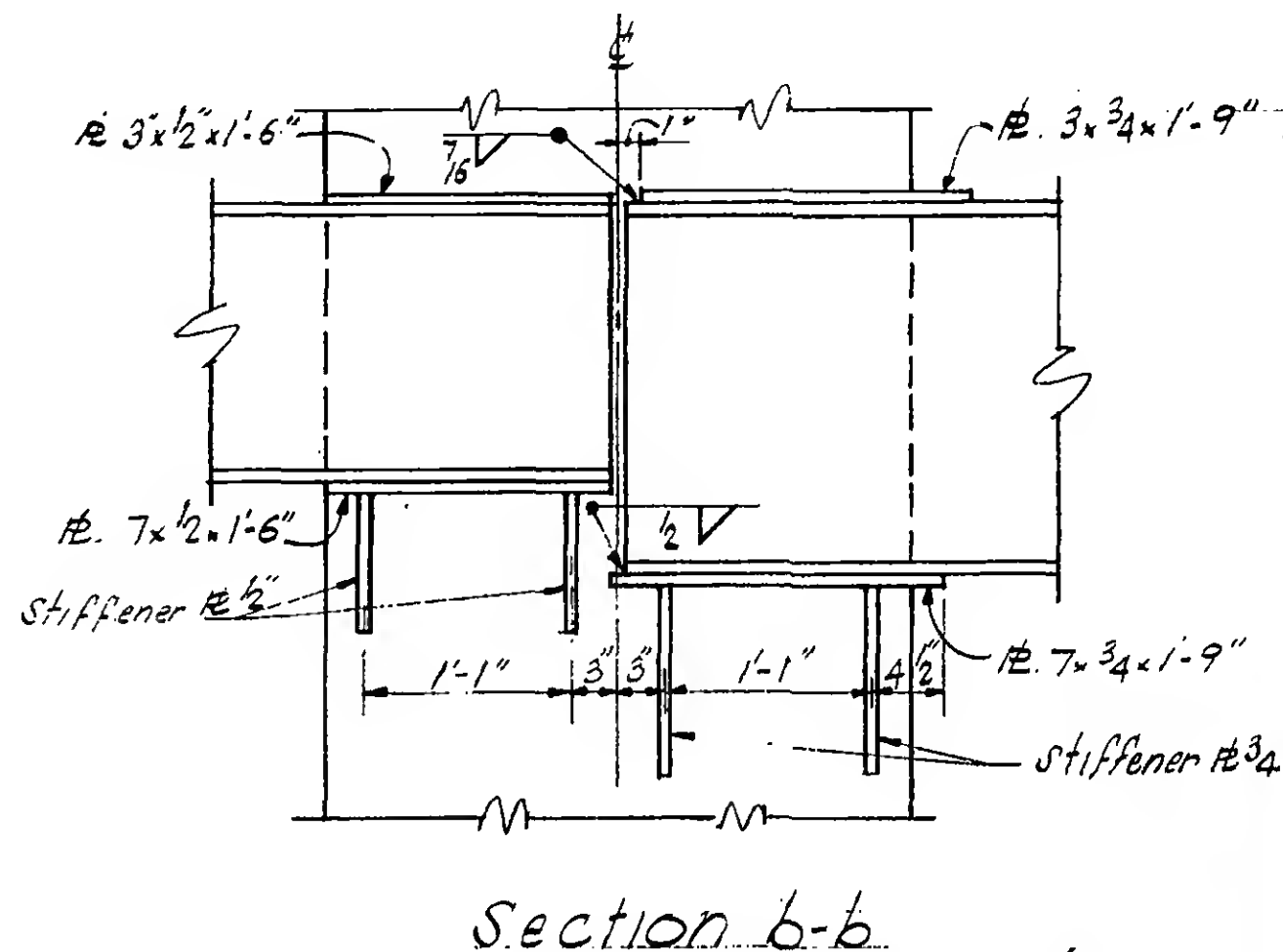
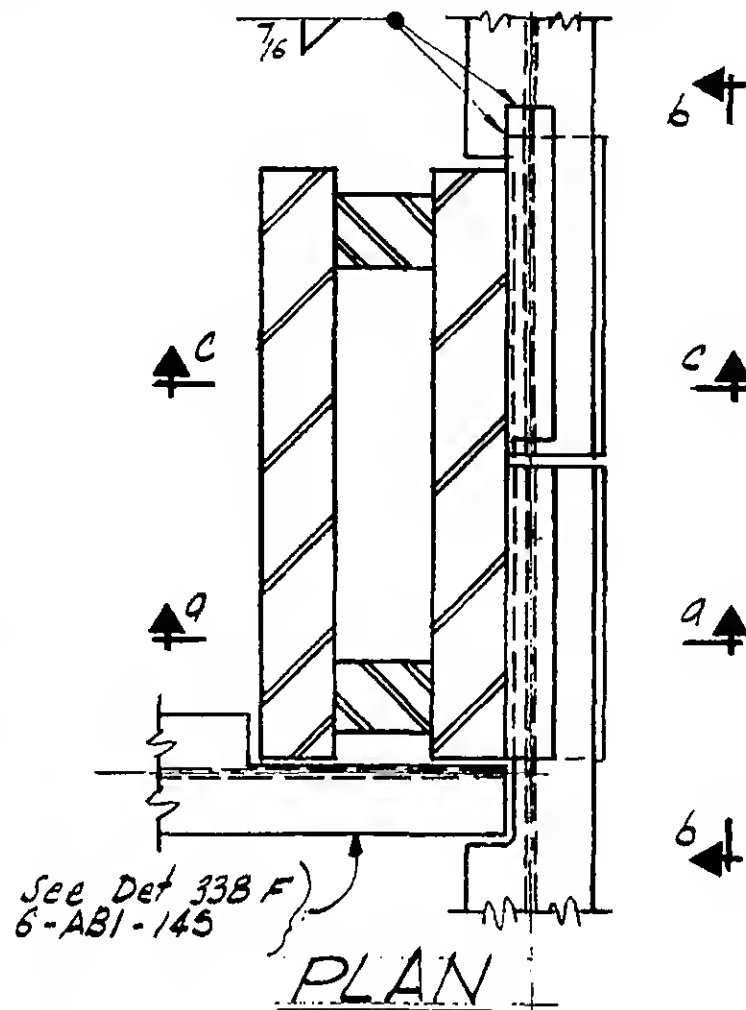
10-31-67



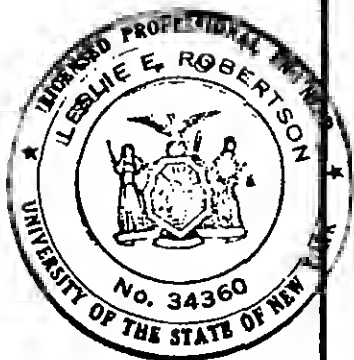
Section a-a



REVISIONS



6-AB5-81



PROJECT

THE WORLD TRADE CENTER

TITLE

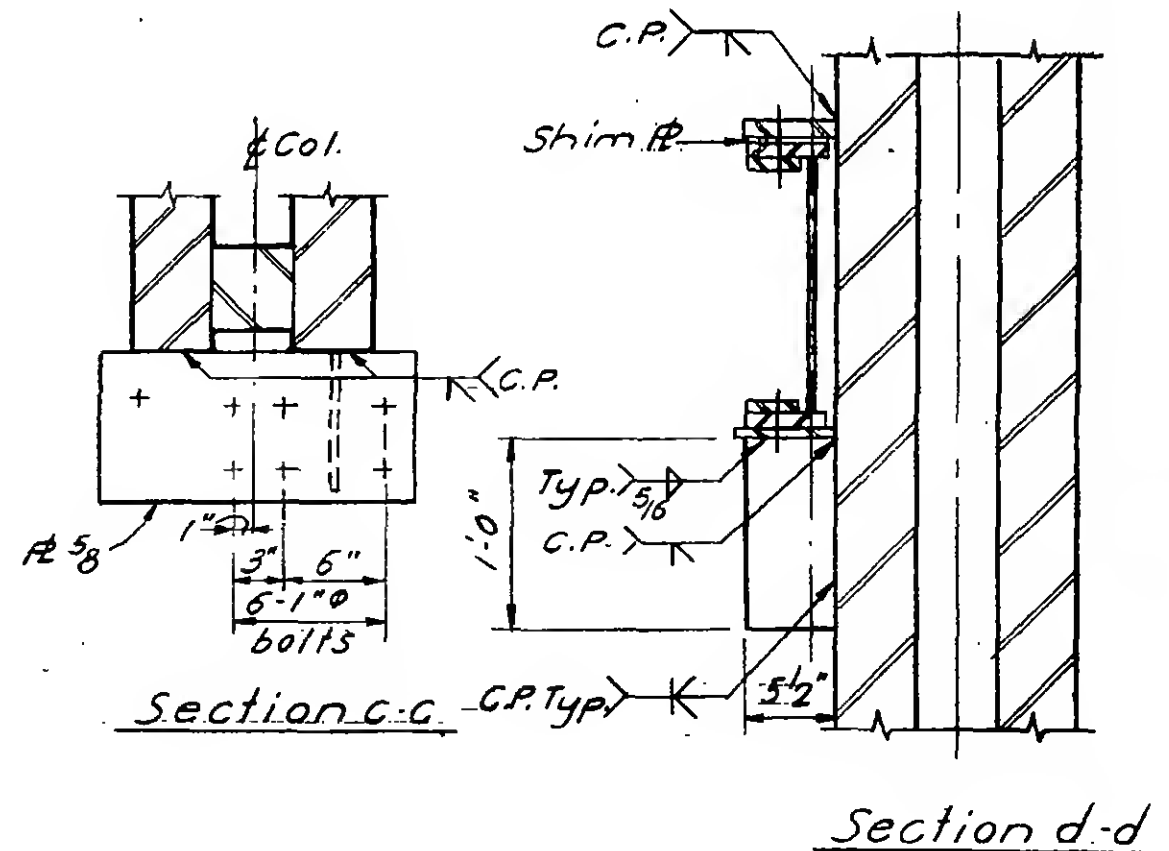
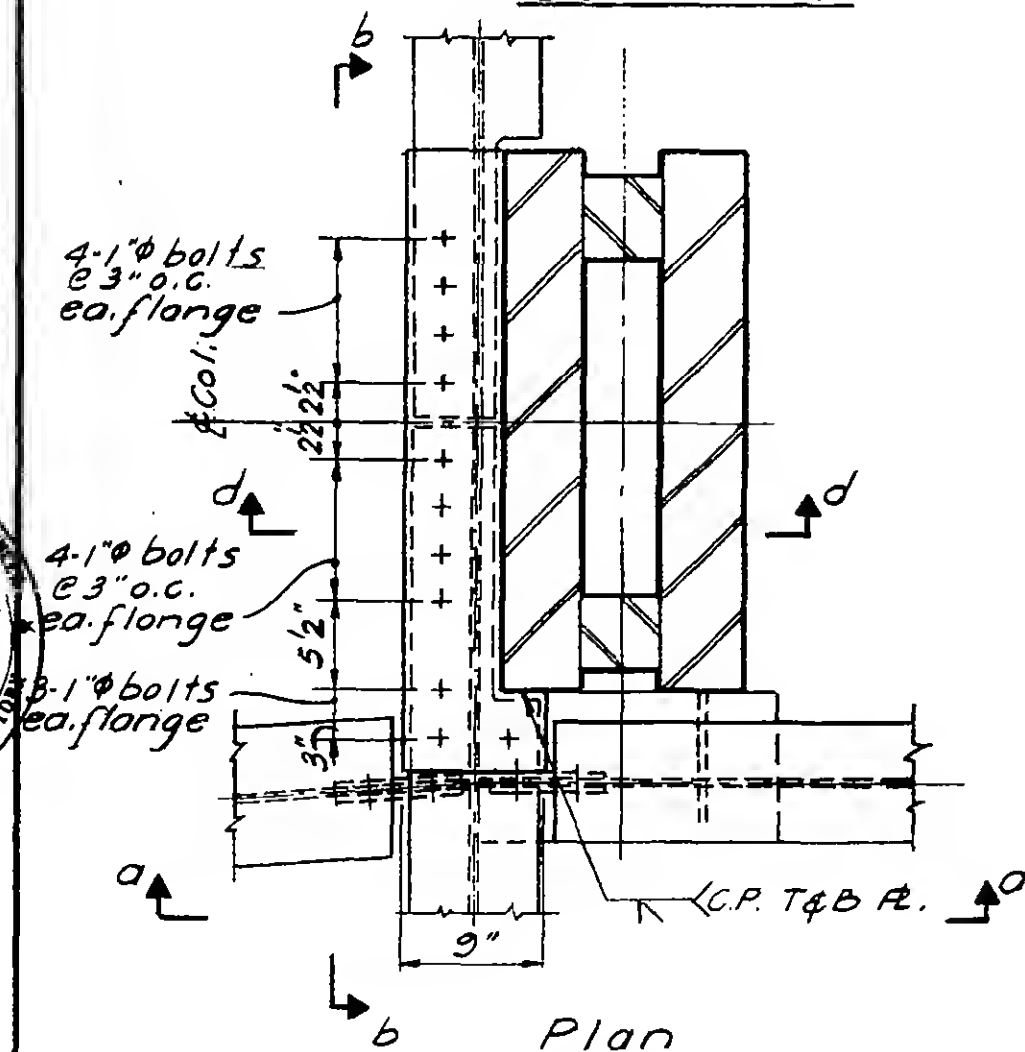
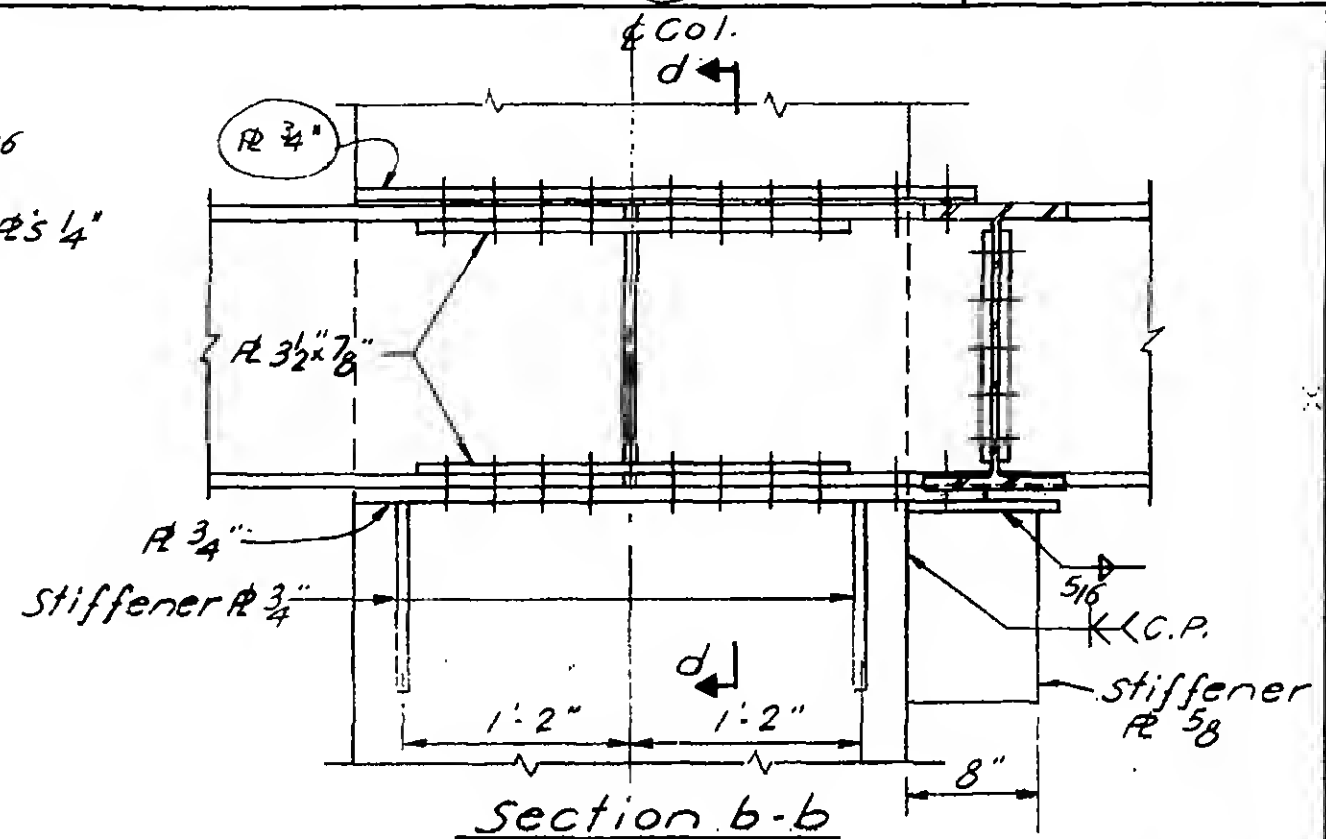
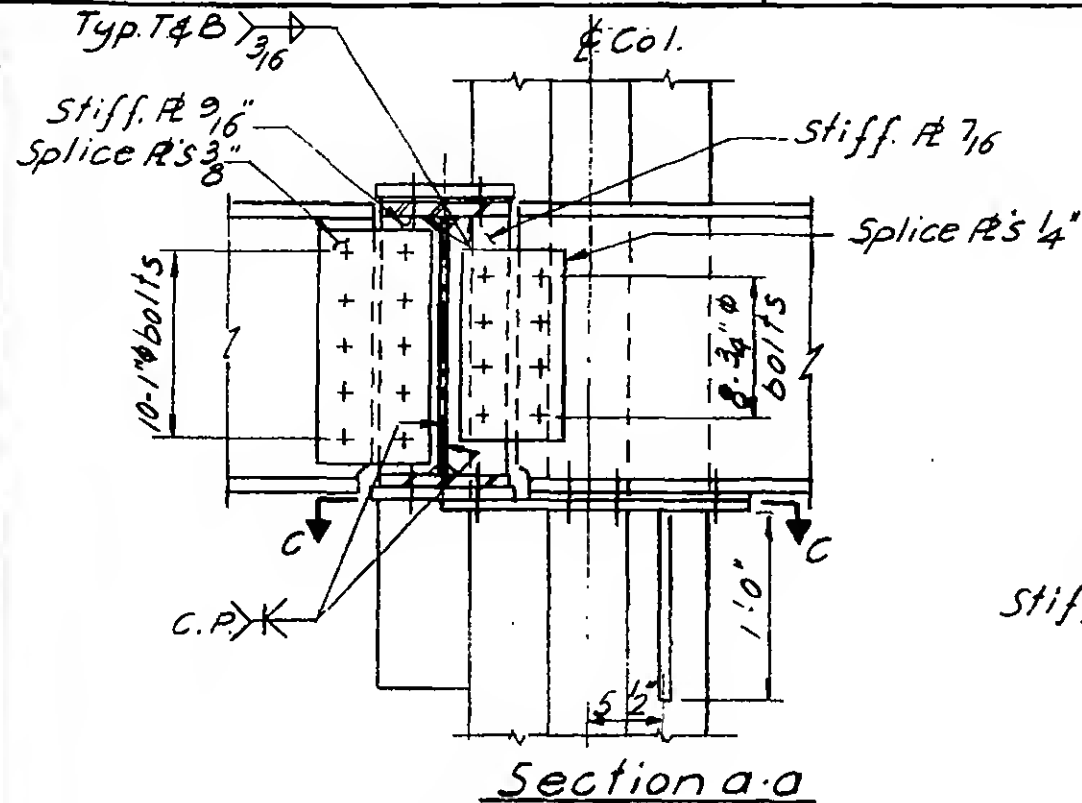
CONNECTION DETAIL 884(A)

DATE

9-29-67

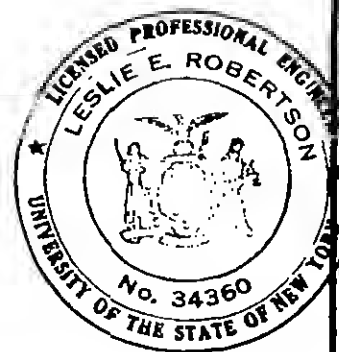
REVISIONS

10-31-67



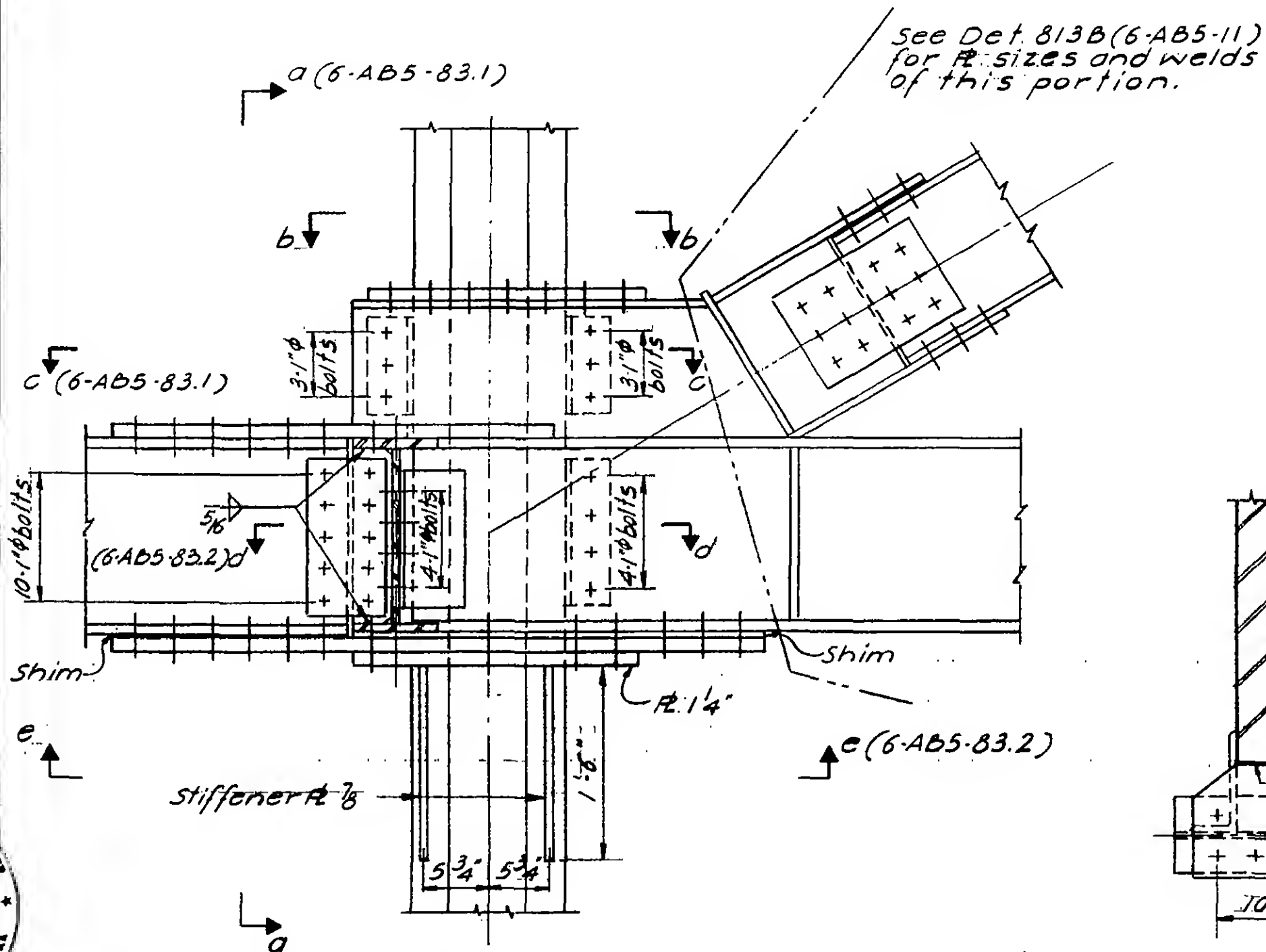
Section d-d

6-AB5-82

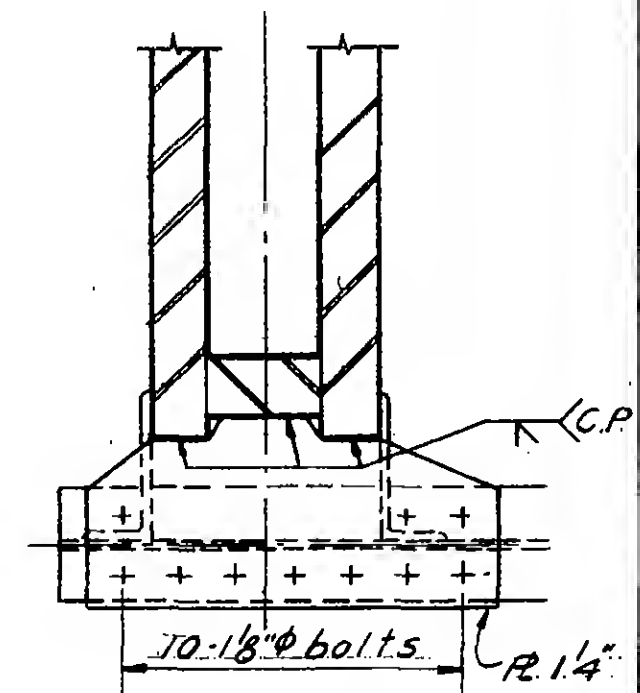


REVISIONS

10-31-67



Elevation f-f
(See 6-AB5-83.1)

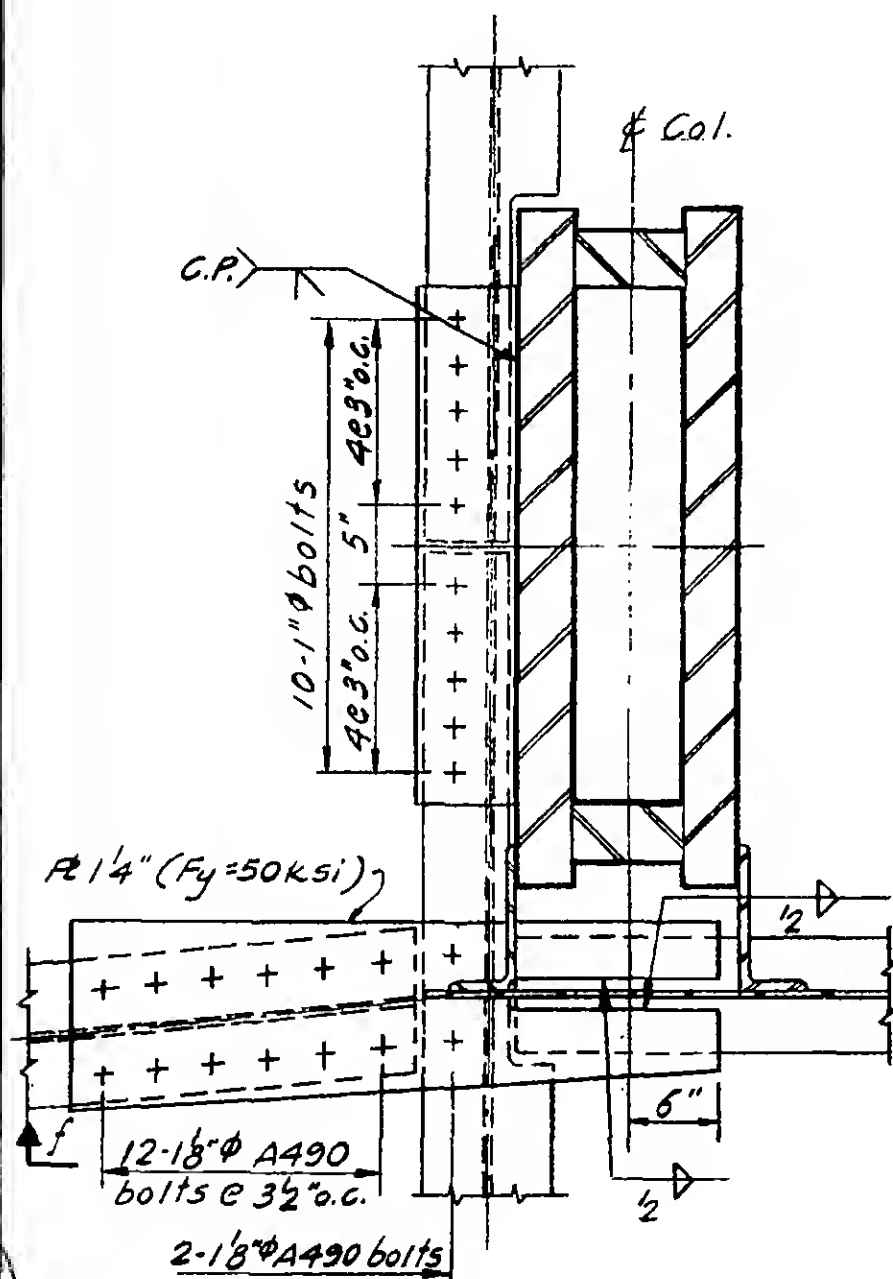


Section b-b

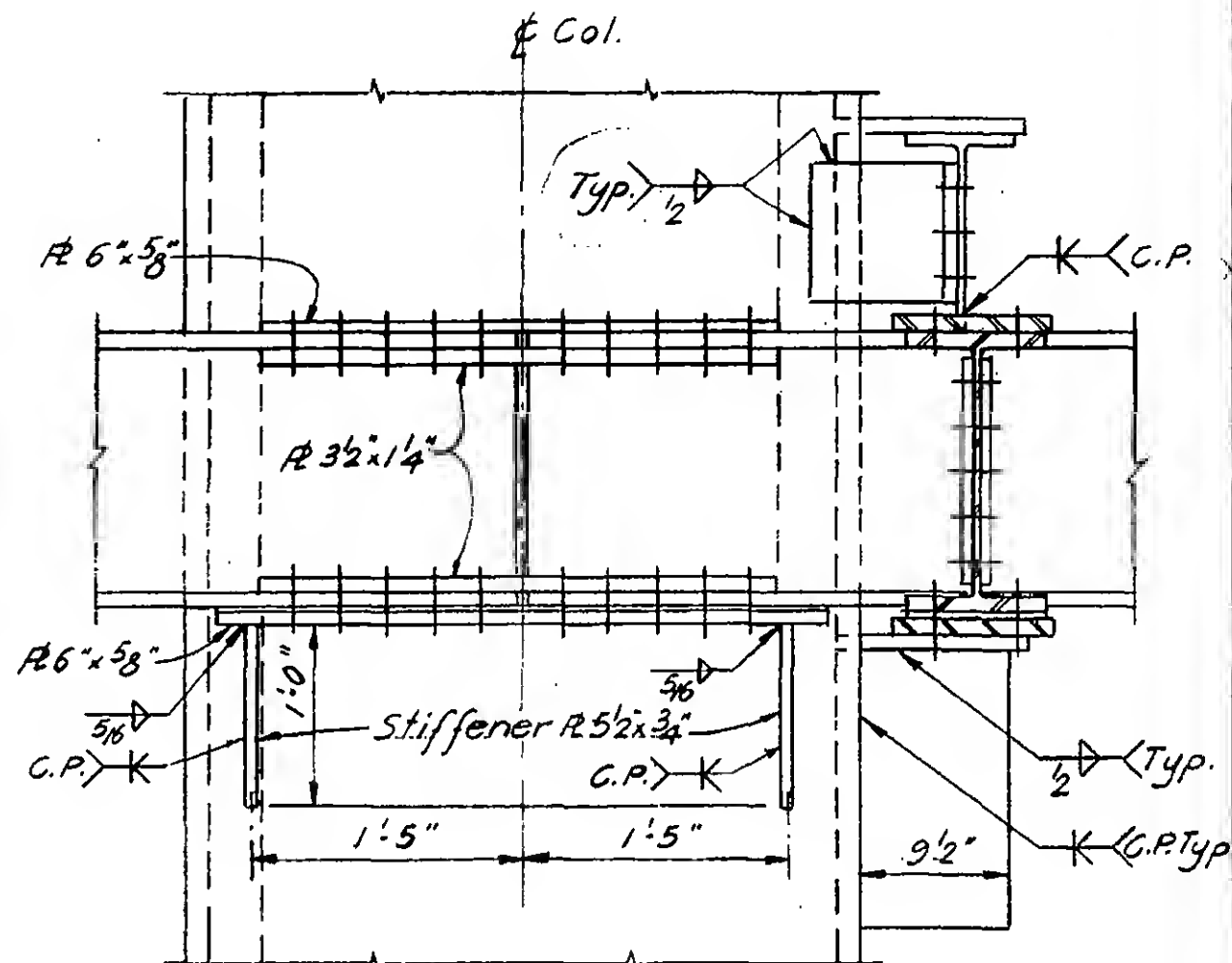


REVISIONS

10-31-67

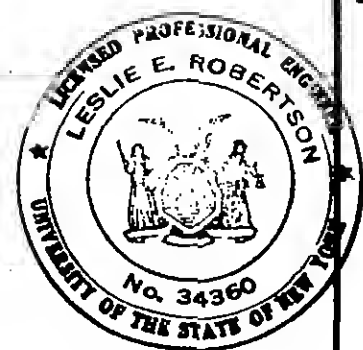


Section c-c



Elevation a-a

f(6-AB5-83)



6-AB5-83.1

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

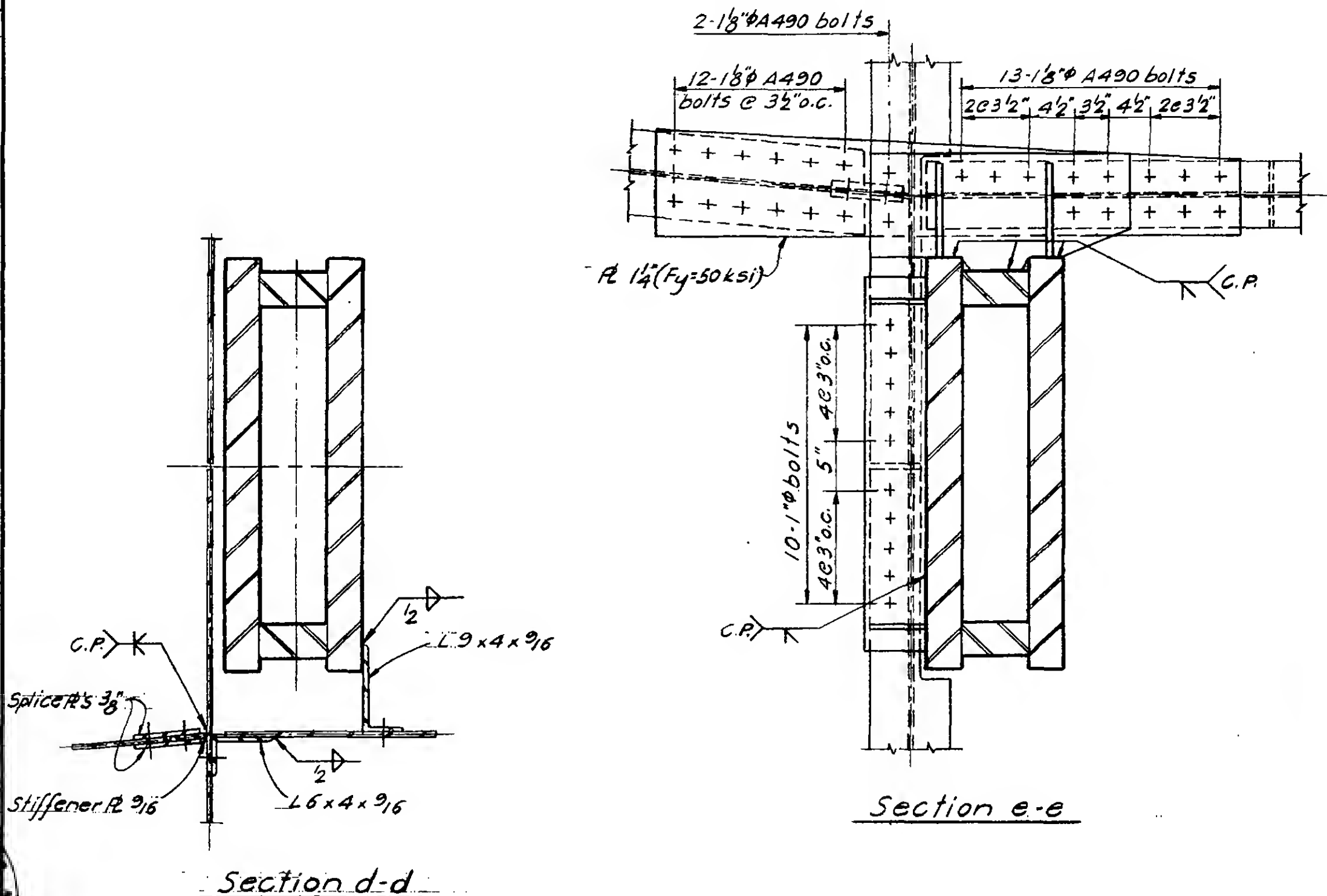
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 885(A)

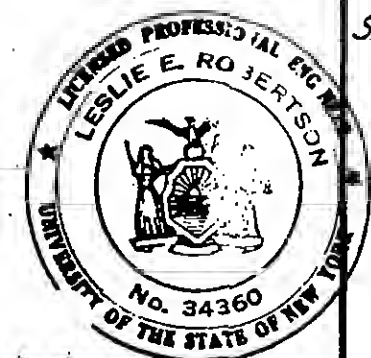
DATE 9-29-67

REVISIONS

10-31-67



6-AB5-83.2



PROJECT

THE WORLD TRADE CENTER

TITLE

CONNECTION DETAIL 886(A)

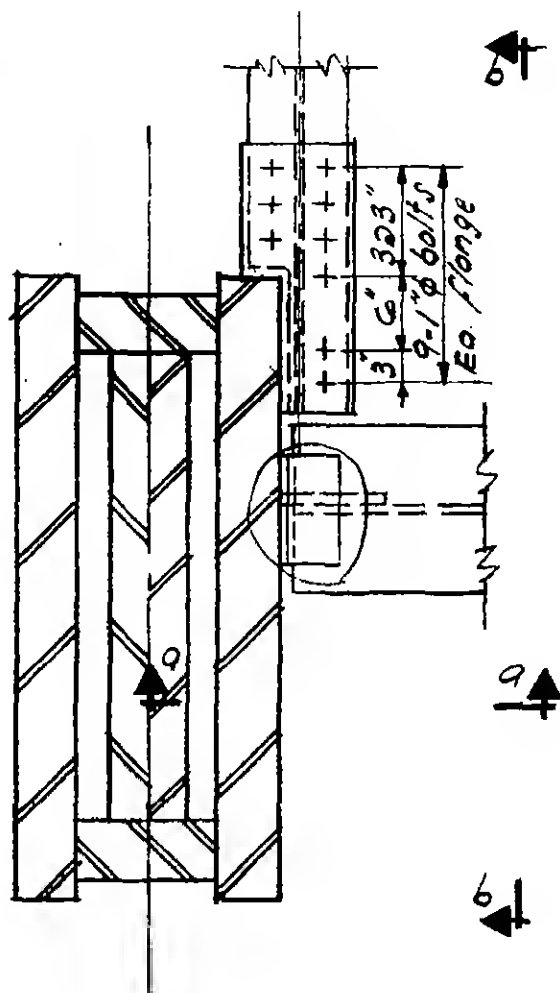
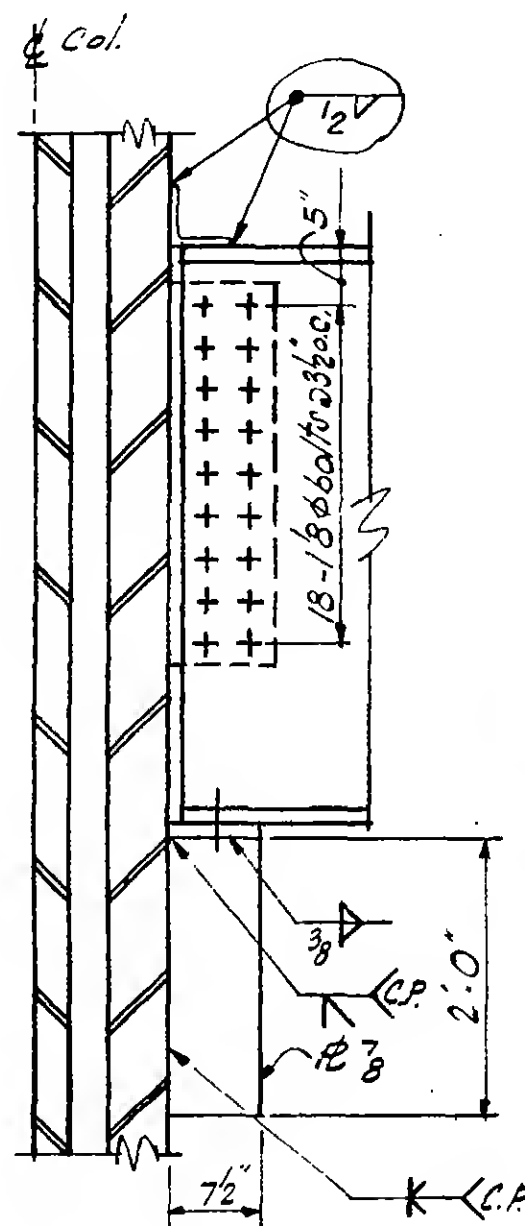
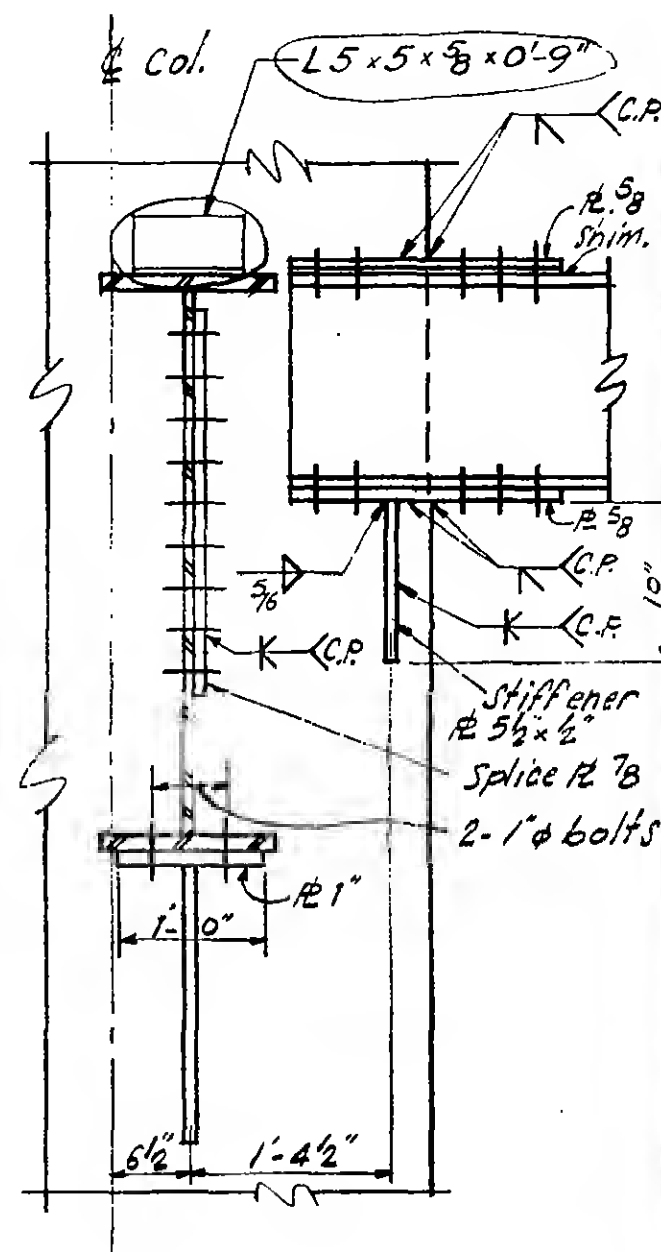
DATE

7-14-67

REVISIONS

9-29-67

10-31-67

PLANSection a-aSection b-b

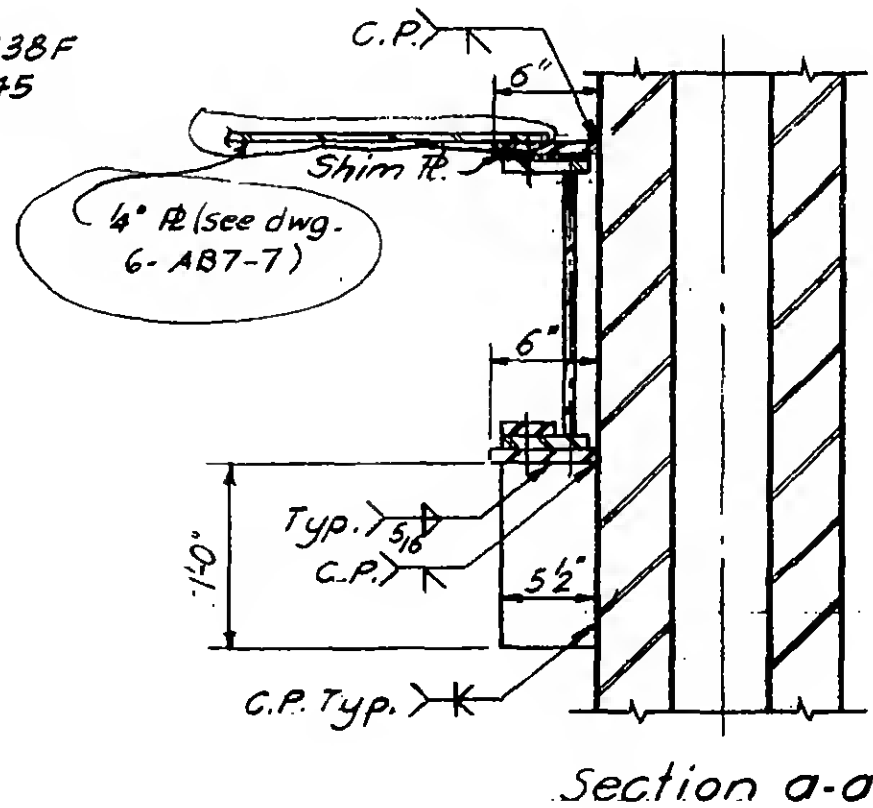
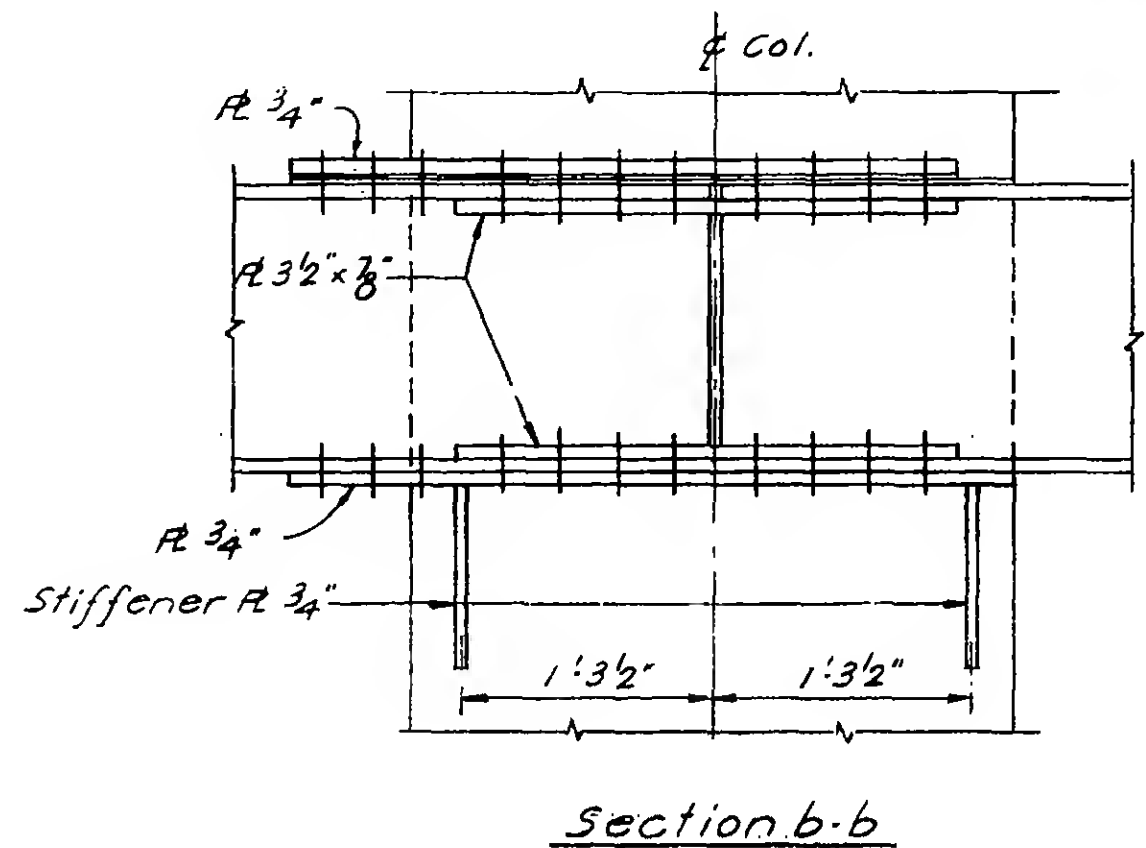
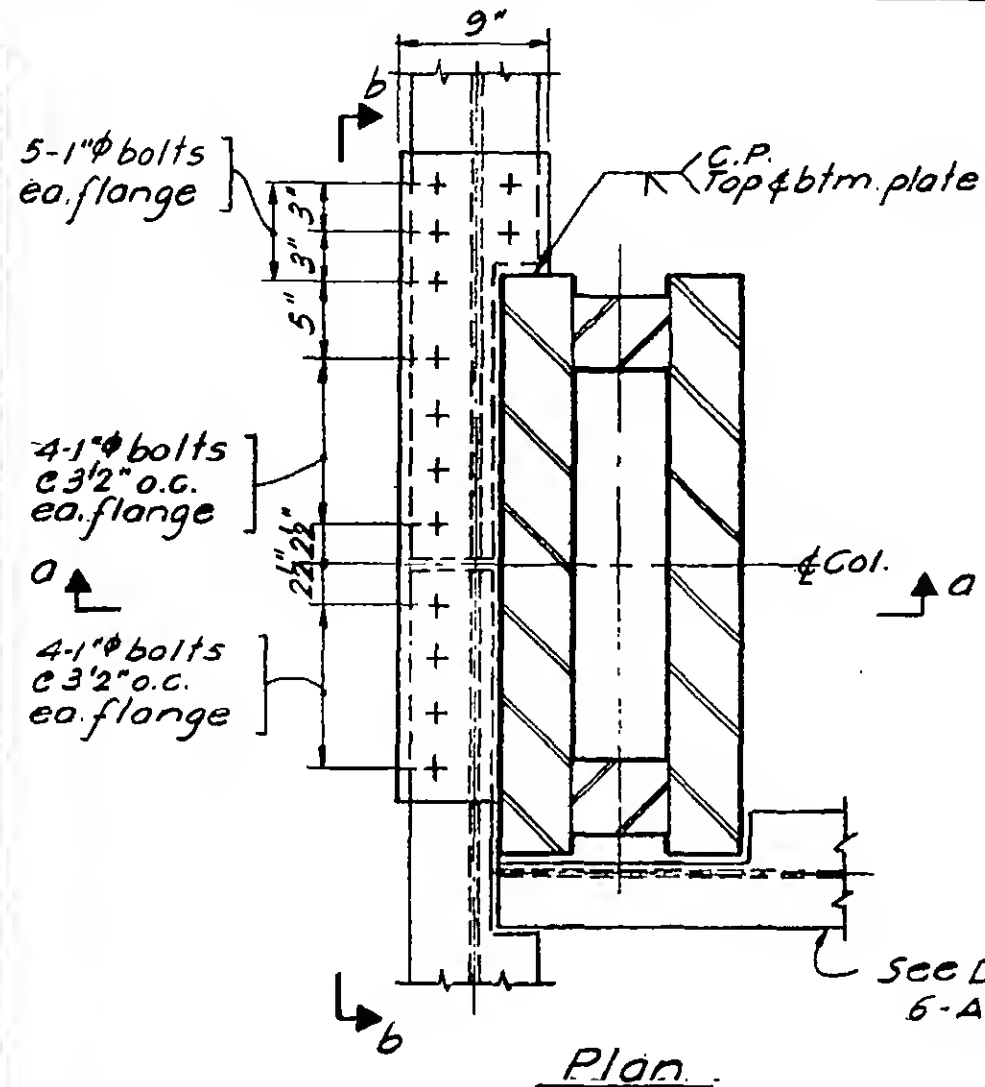
PROJECT THE WORLD TRADE CENTER

TITLE CONNECTION DETAIL 887A

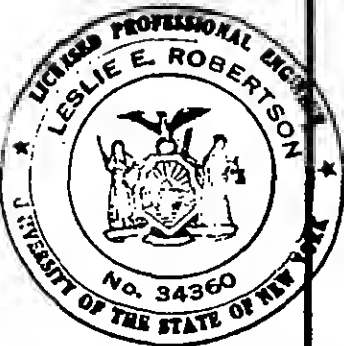
DATE 9-29-67

REVISIONS

12-21-67

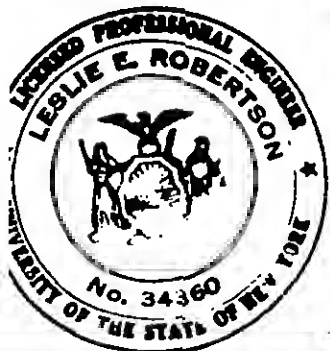
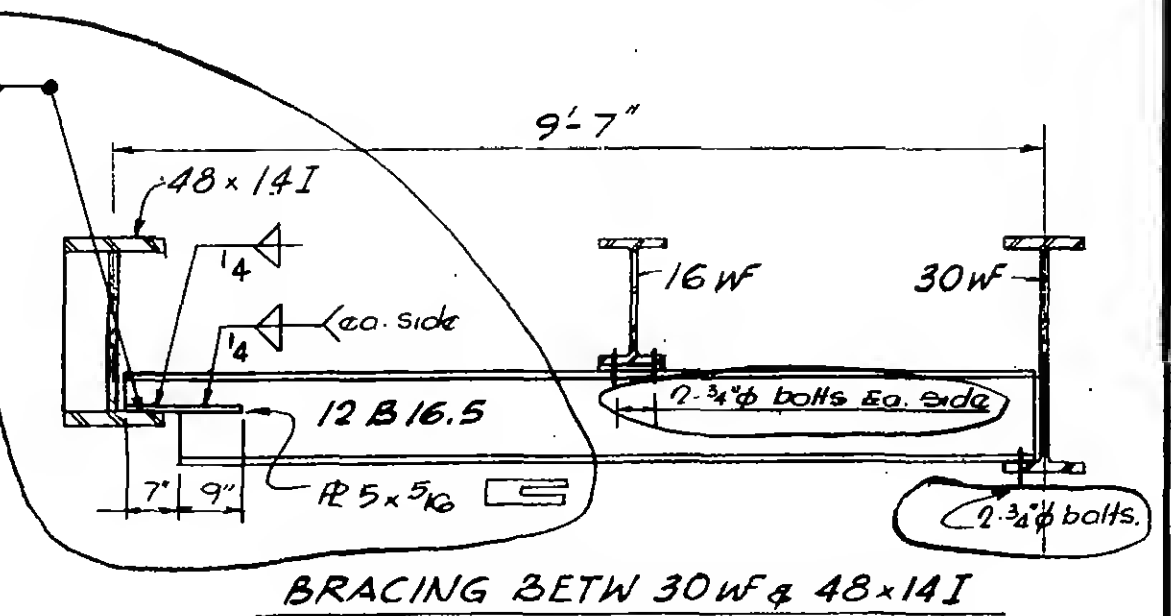
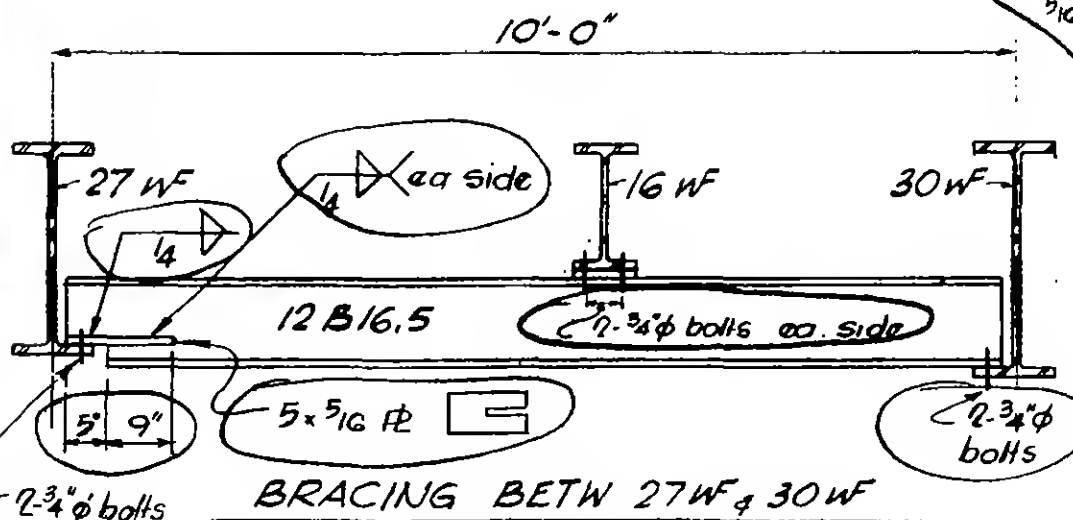
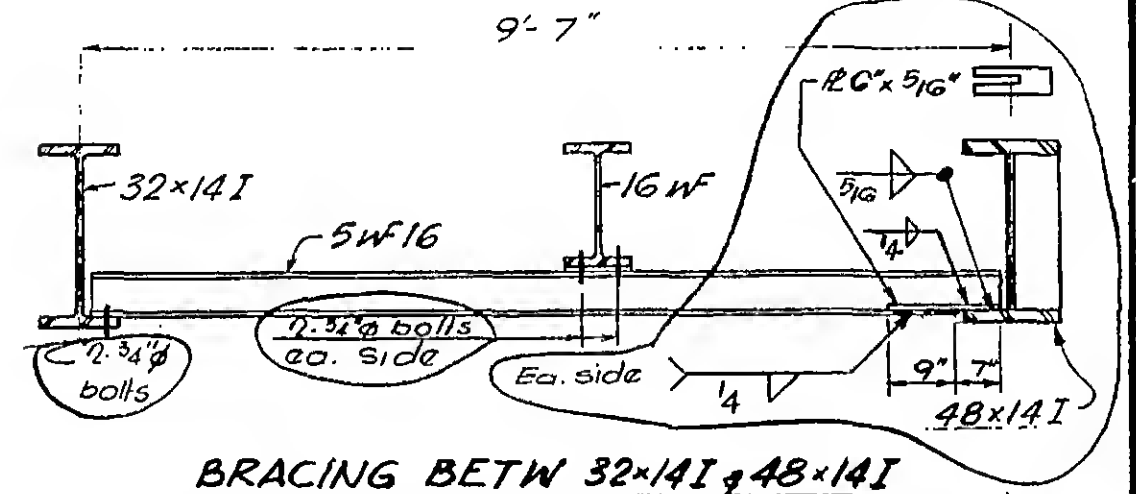
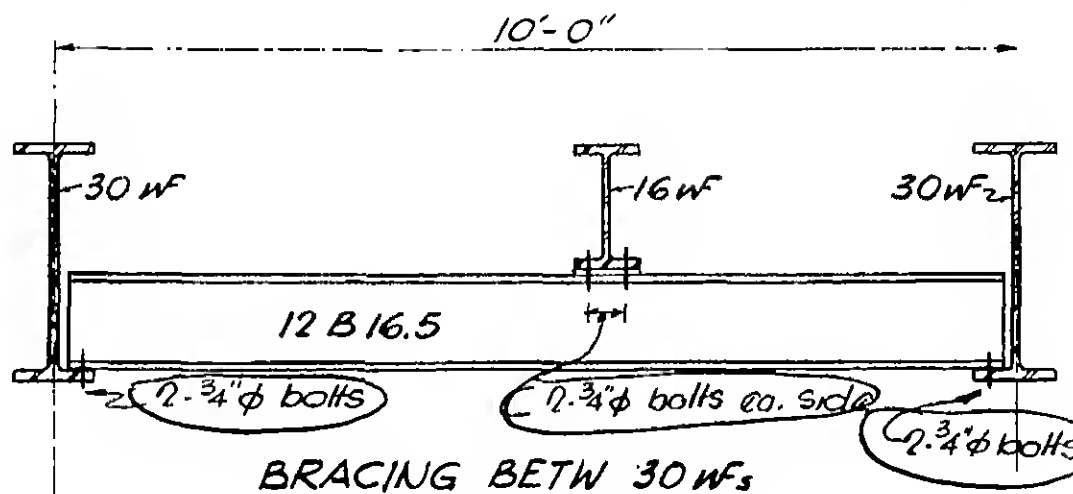
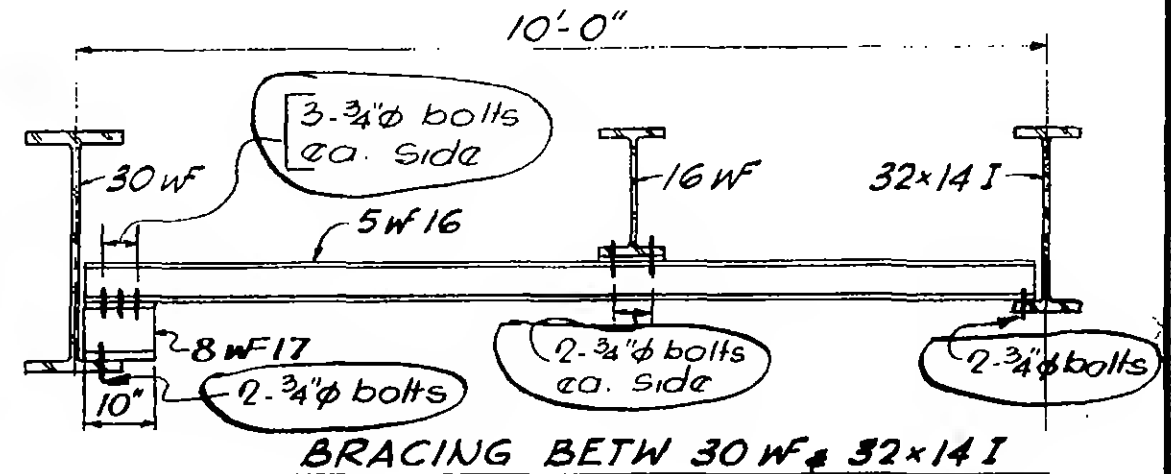
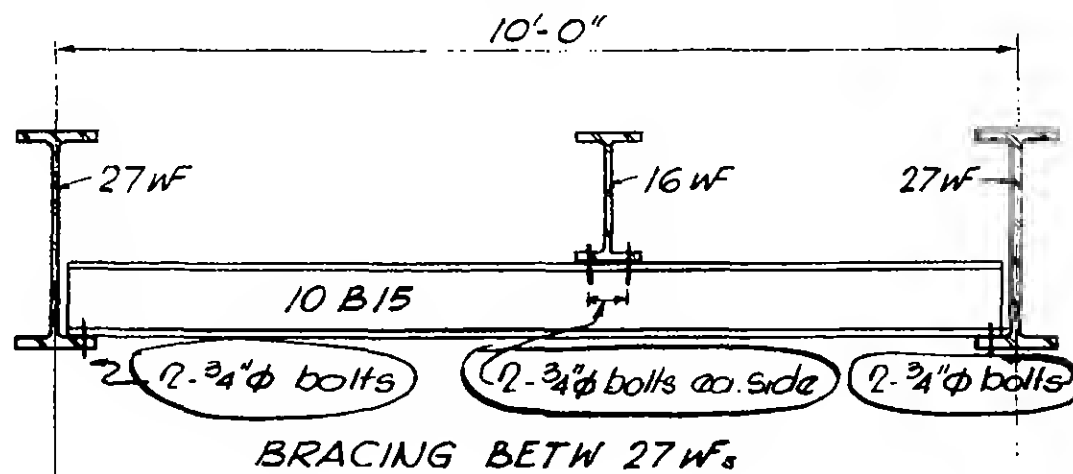


6-AB5-85

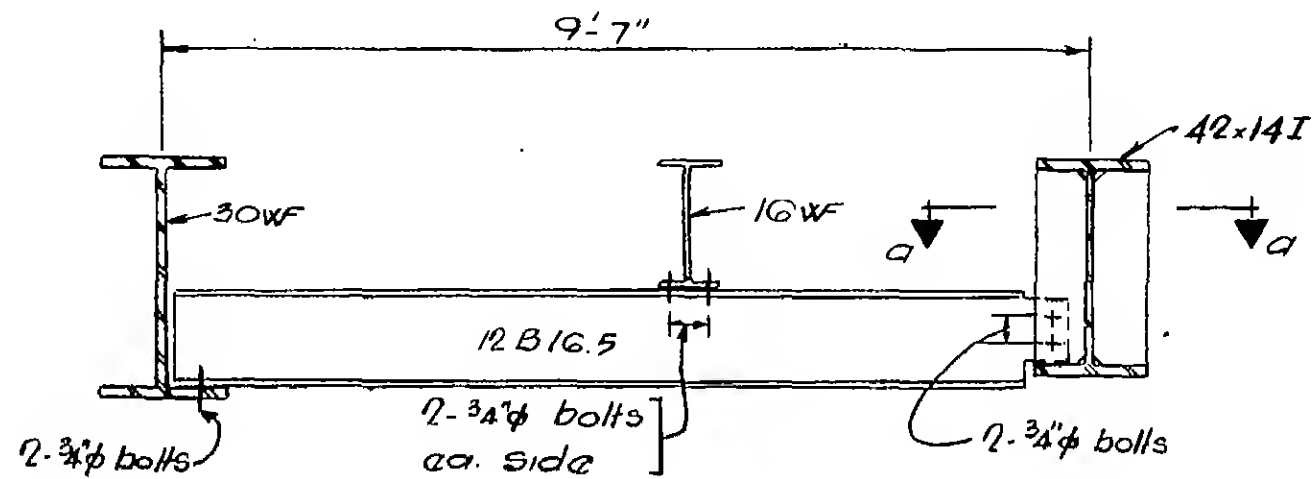


REVISIONS

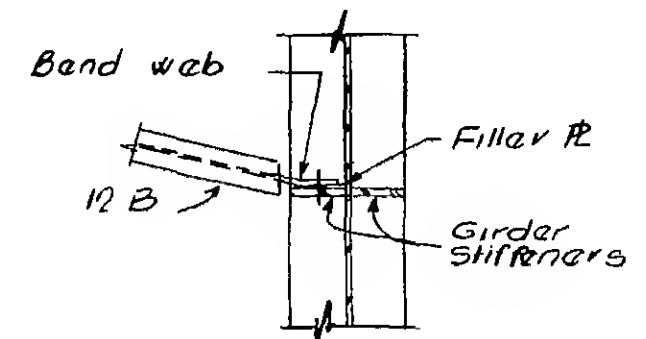
10-31-67



REVISIONS



Bracing betw. 30WF & 42x14I



Section a-a

PROJECT

THE WORLD TRADE CENTER

TITLE

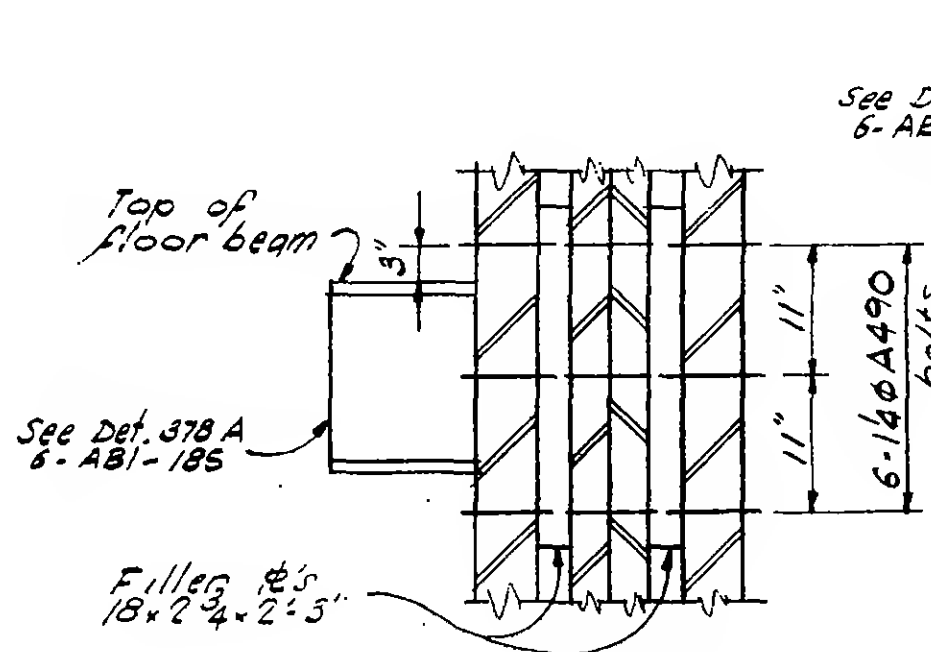
COLUMN REINF. AT BRACING COL: 501, 508, 1001, 1008

DATE

8.14.67

REVISIONS

9-29-67

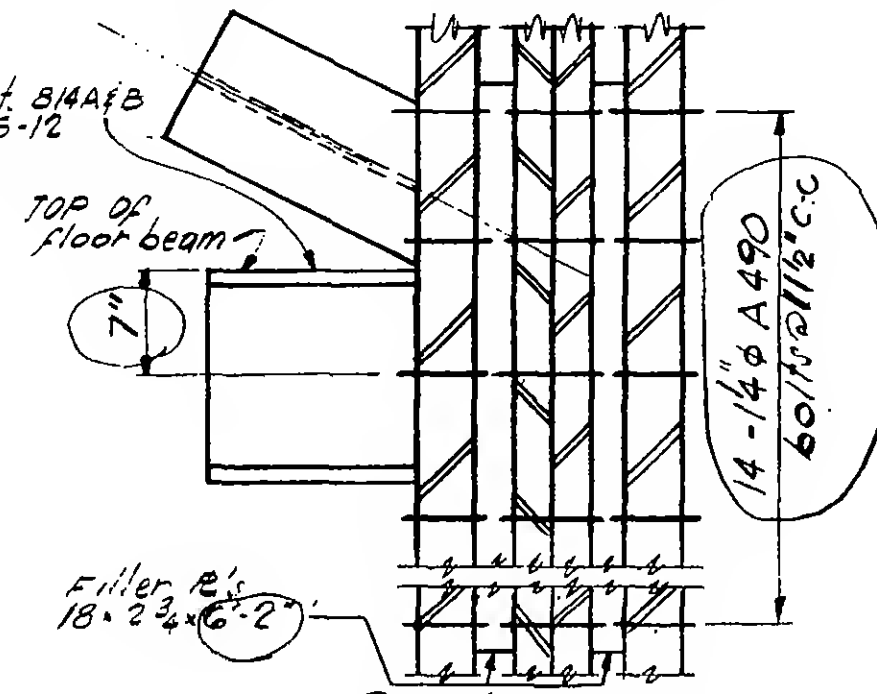


Section a-a

El. 344'-0"

El. 355'-6"

El. 378'-6"



Section a-a

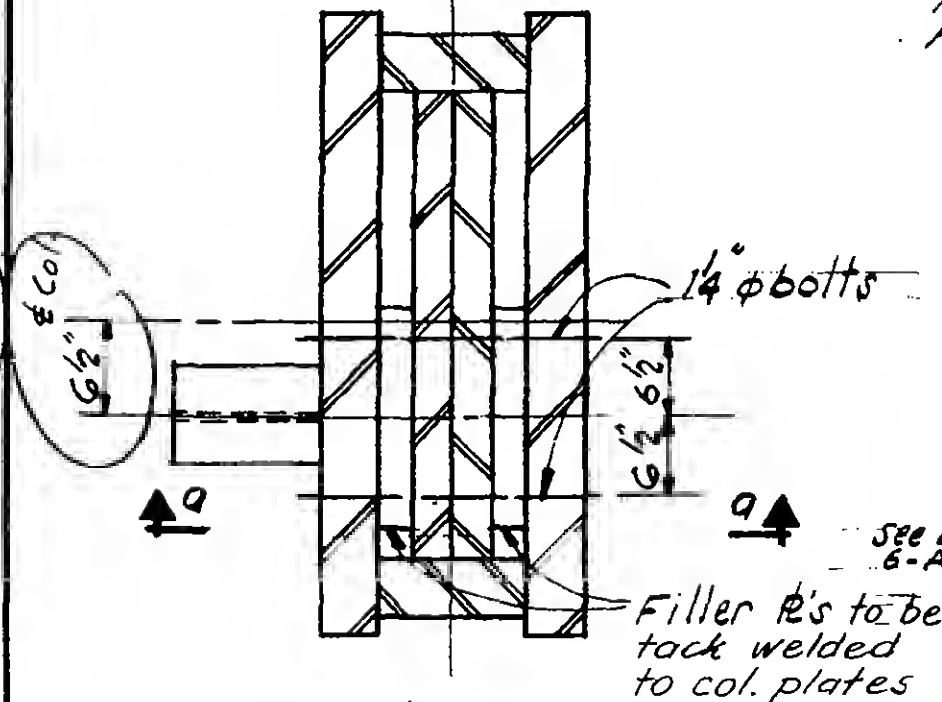
El. 332'-0"

1008

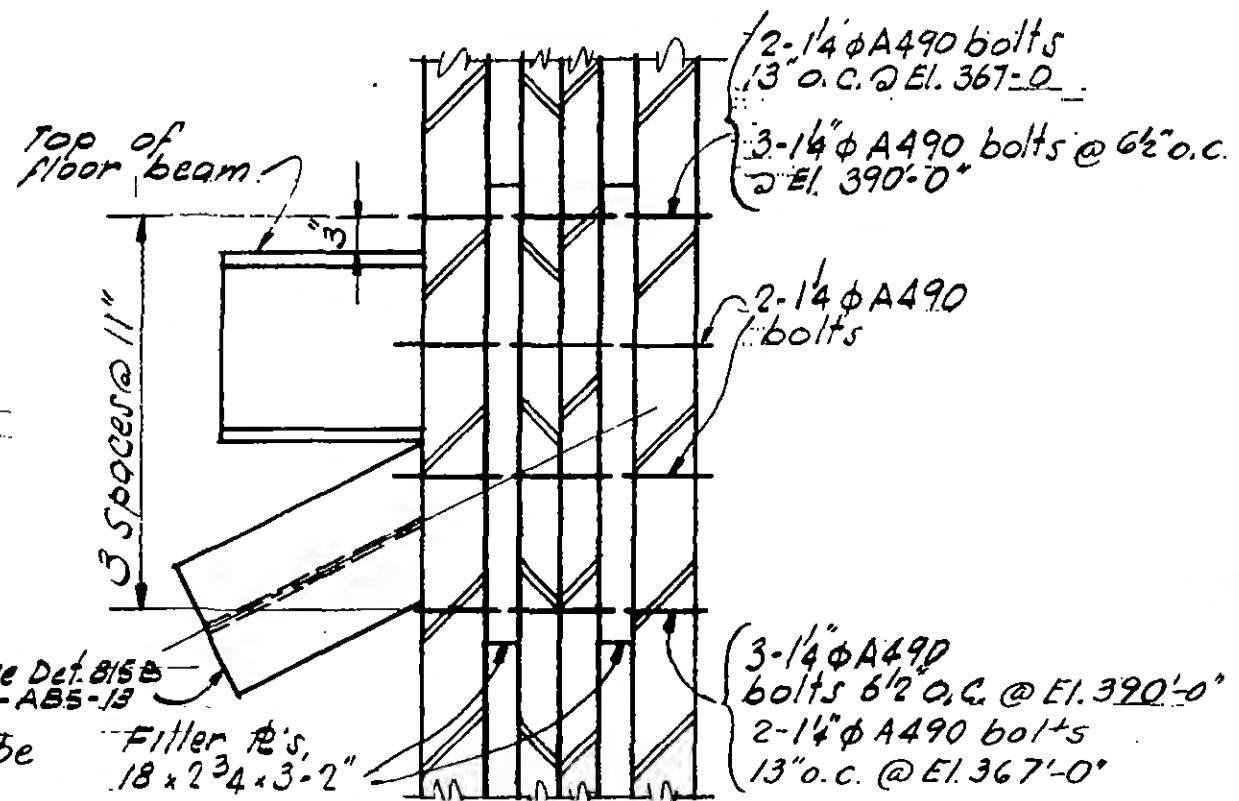
1001

508

501



PLAN



Section a-a

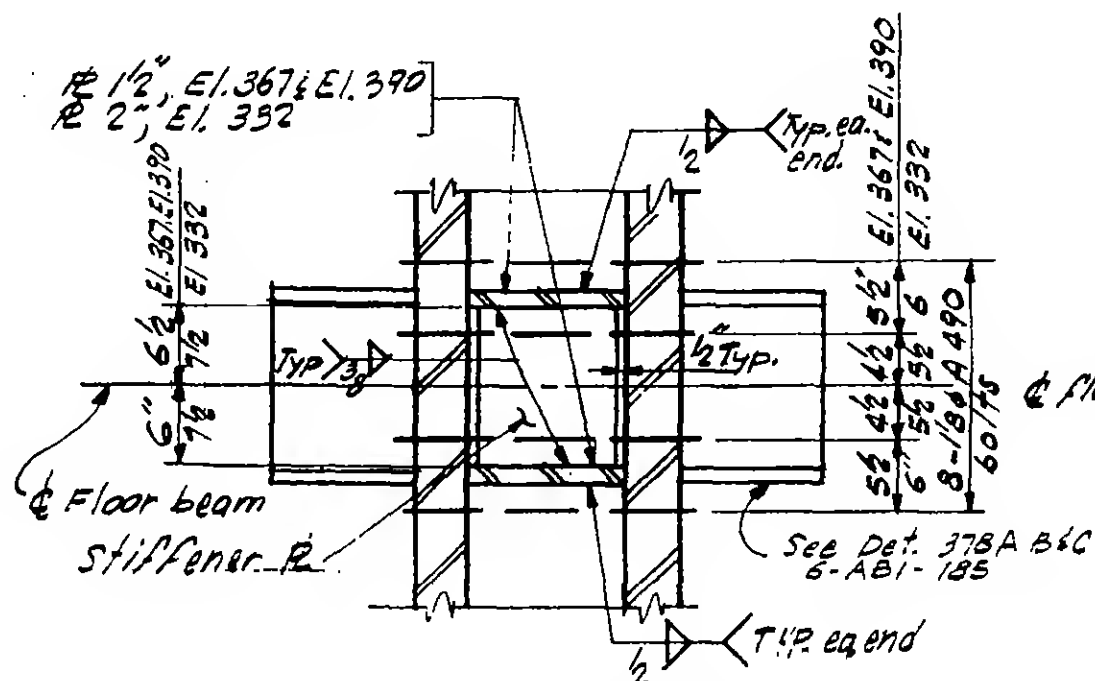
El. 390'-0" & El. 367'-0"

6-AB5-87



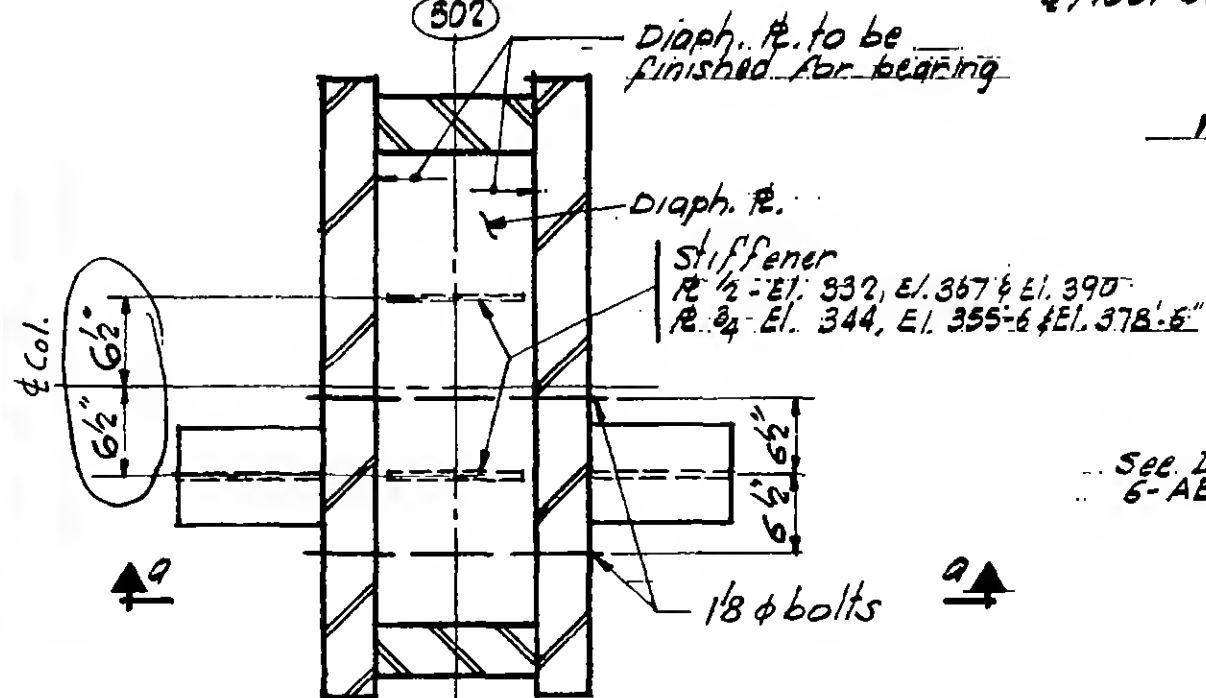
REVIEWS

9-29-67

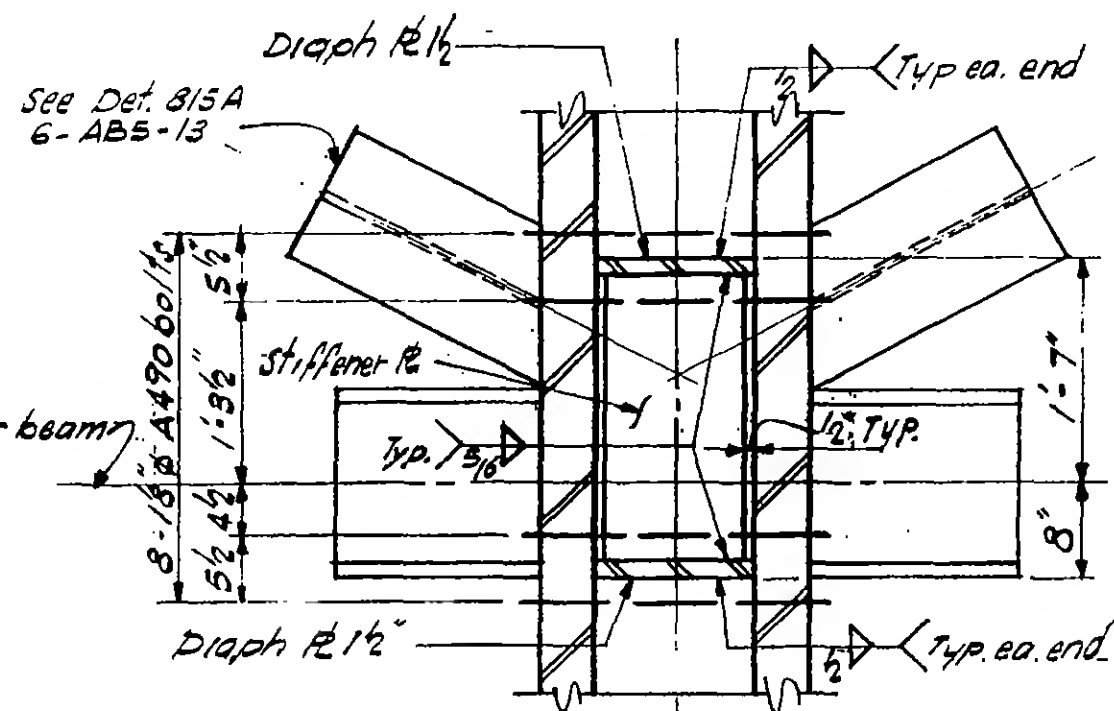


Section a-a

1007 E1. 332
E1. 367
E1. 390

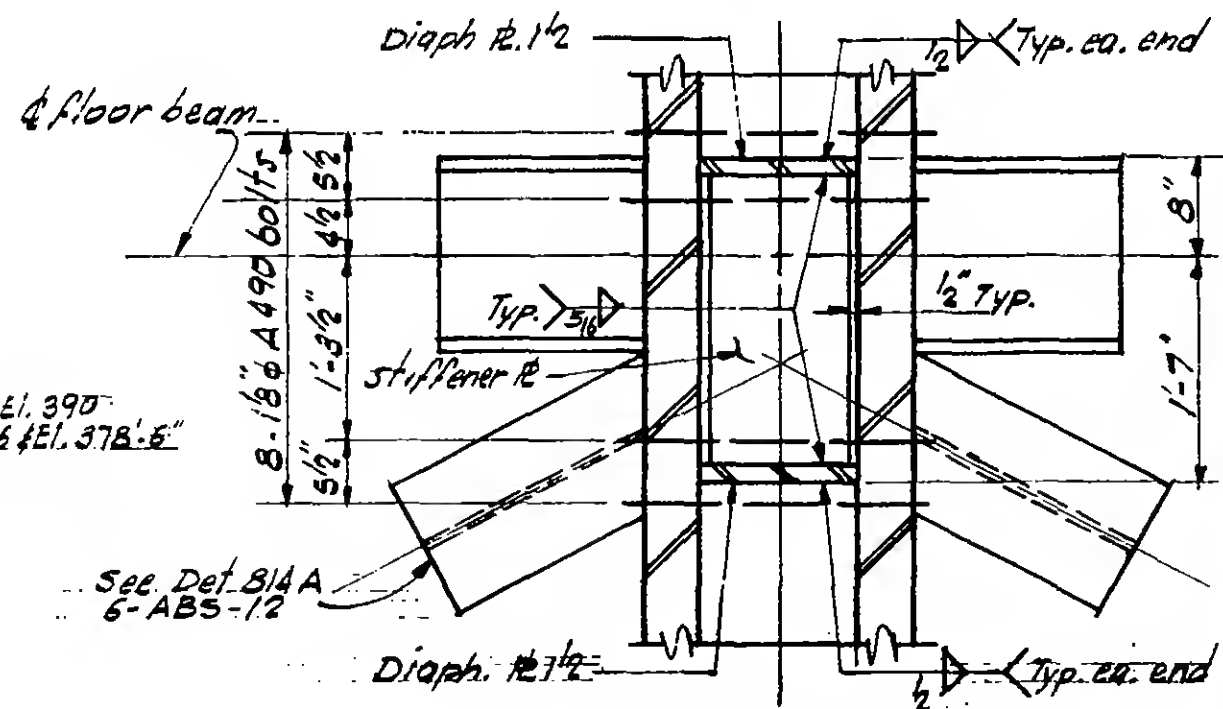


0-4V



Section a-a

El. 355'-6"
El. 378'-6"



Section g-g

El. 344



6-AES-88

PROJECT

THE WORLD TRADE CENTER

TITLE

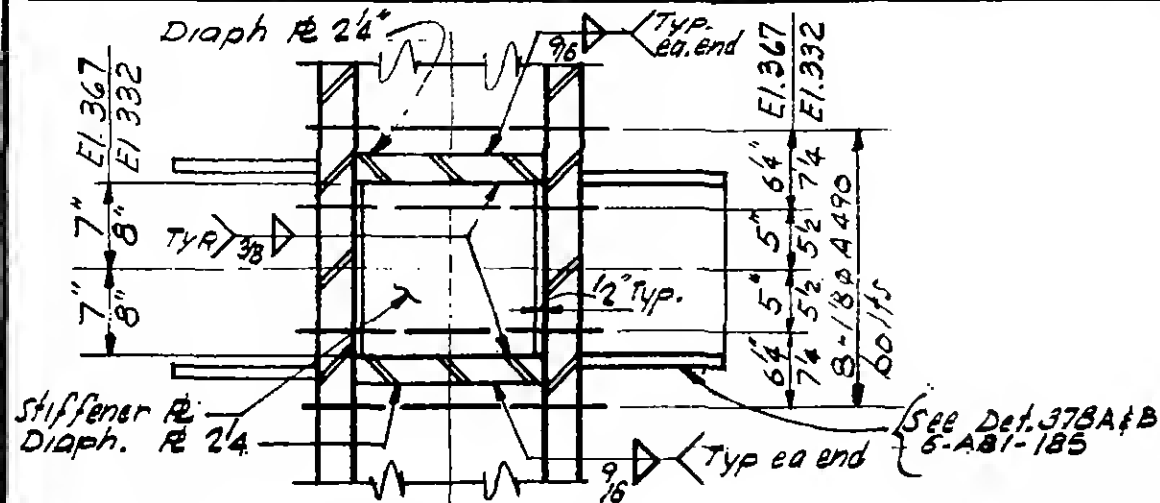
COLUMN REIN. AT BRACING COL. 504 & 1005

DATE

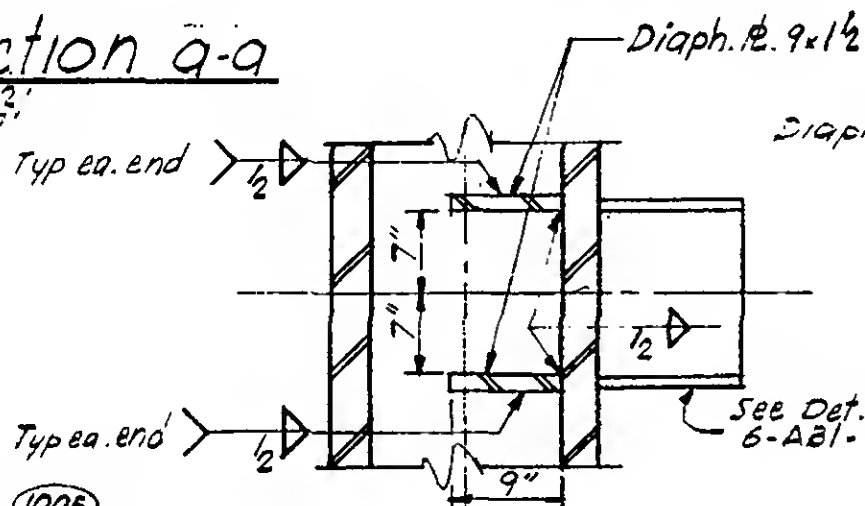
8-14-67

REVISIONS

9-29-67

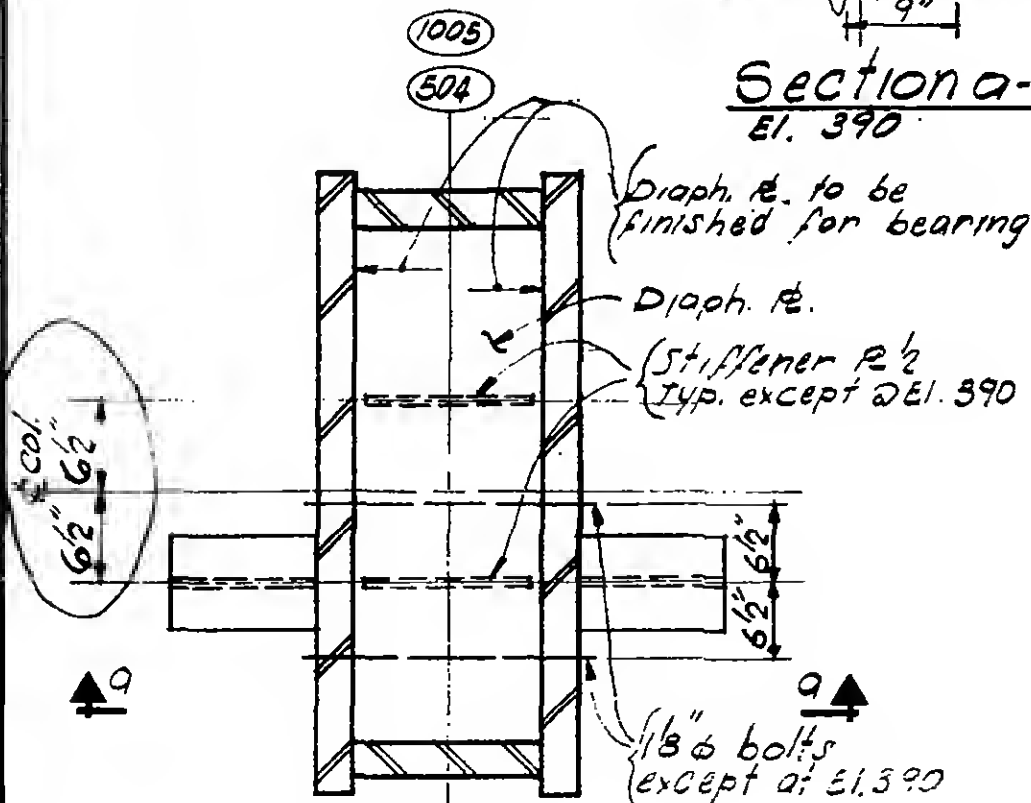


Section a-a

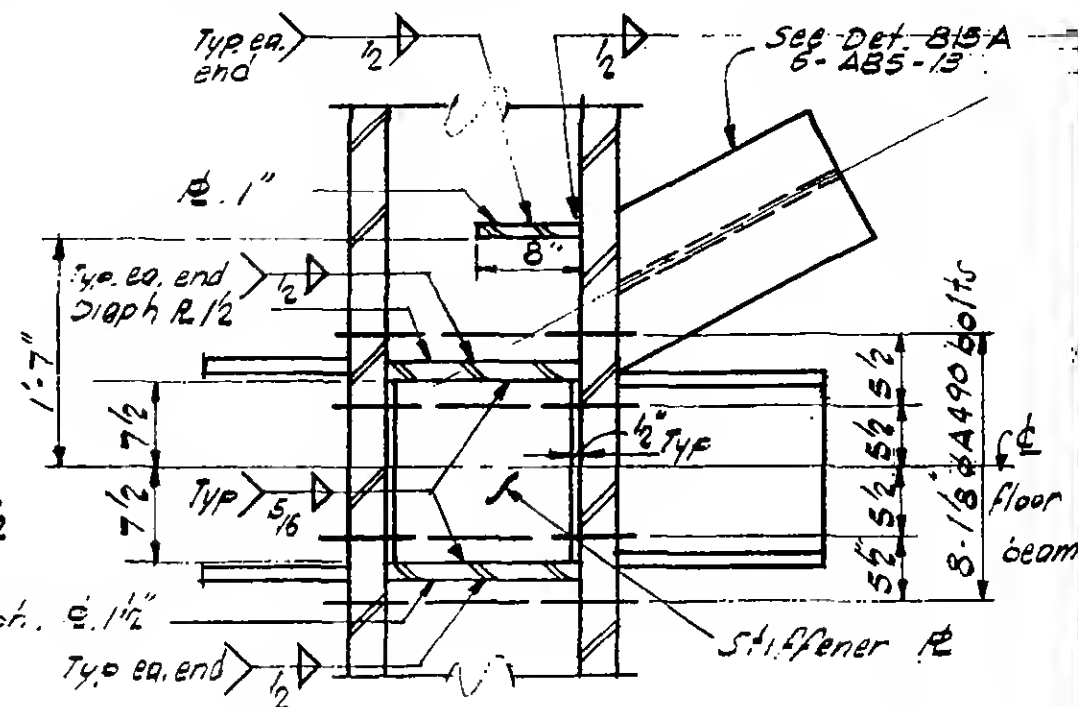
El. 332'
El. 367'

Section a-a

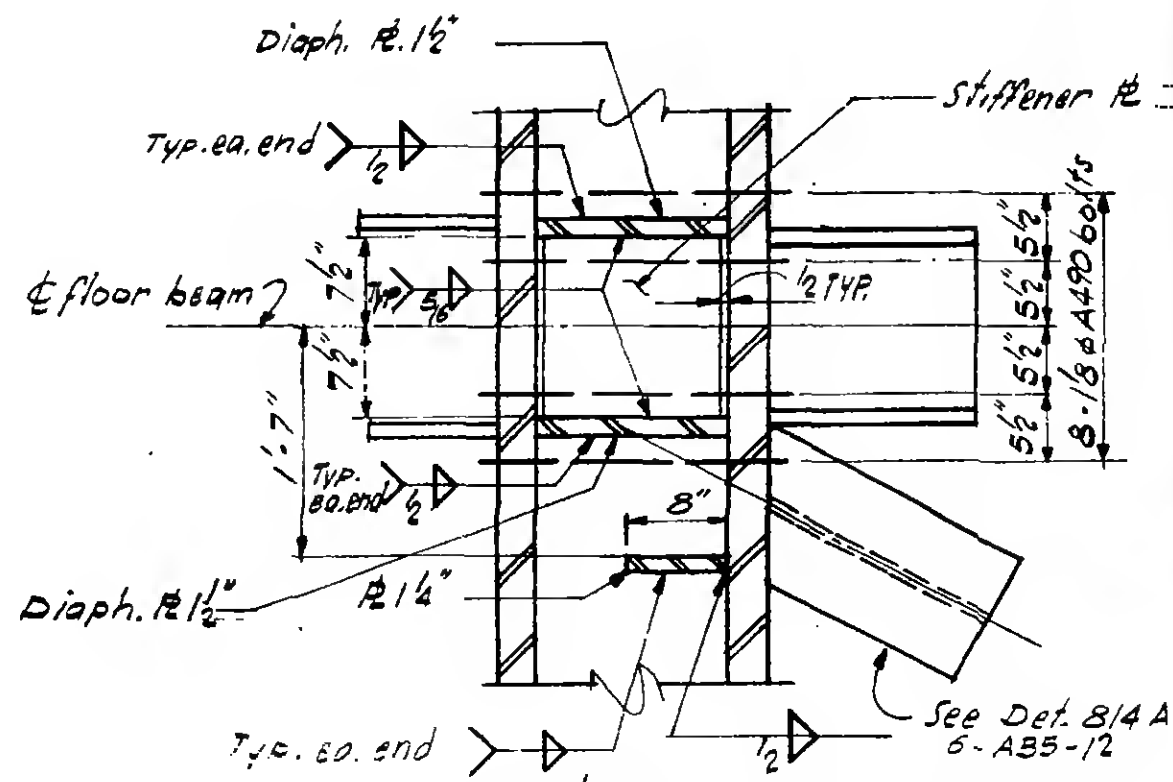
El. 390



PLAN



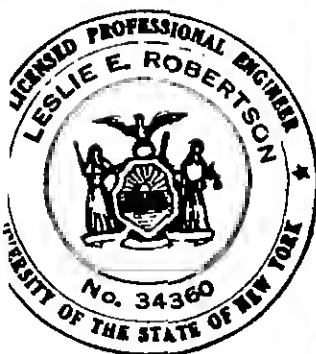
Section a-a

El. 355'-6"
El. 378'-0"

Section a-a

El. 344'-0"

6-AB5-89



PROJECT

THE WORLD TRADE CENTER

TITLE

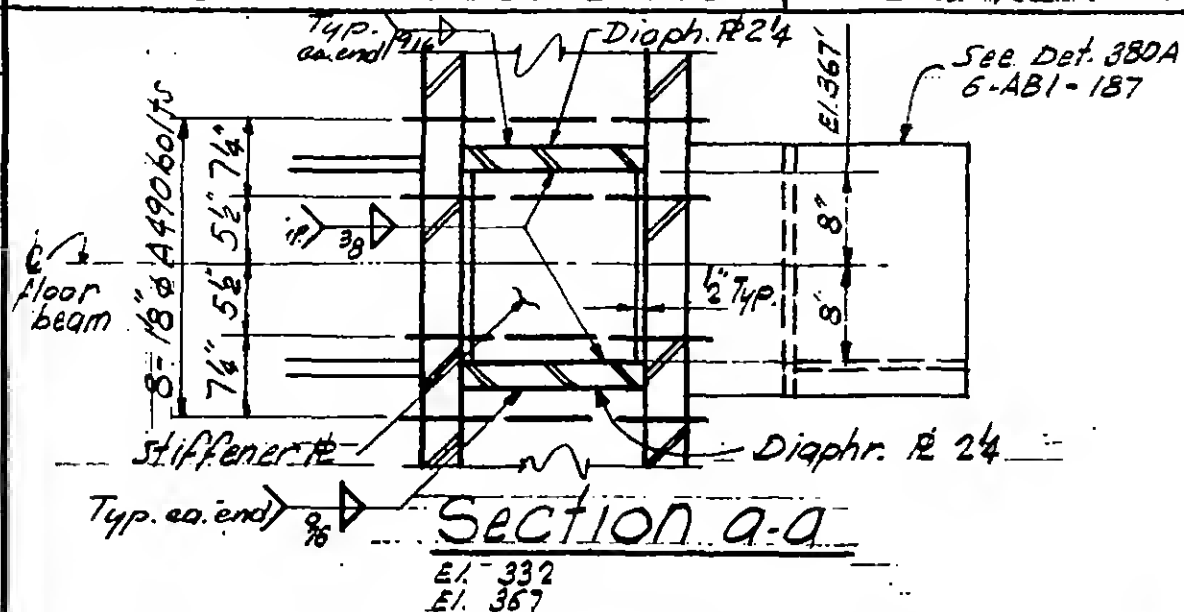
COL. REINF. AT BRACING COL. 505 & 1004

DATE

8.14.67

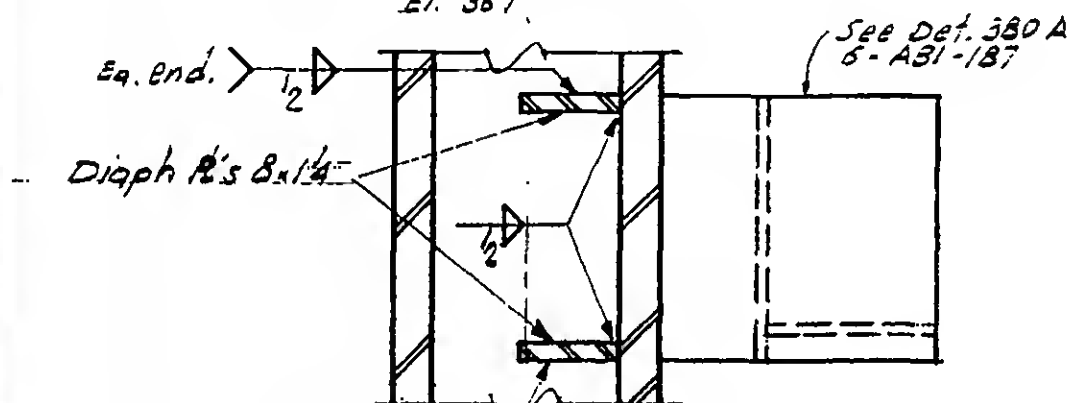
REVISIONS

9-29-67



Typ. ea. end

Section a-a

El. 332
El. 367

Eq. End.

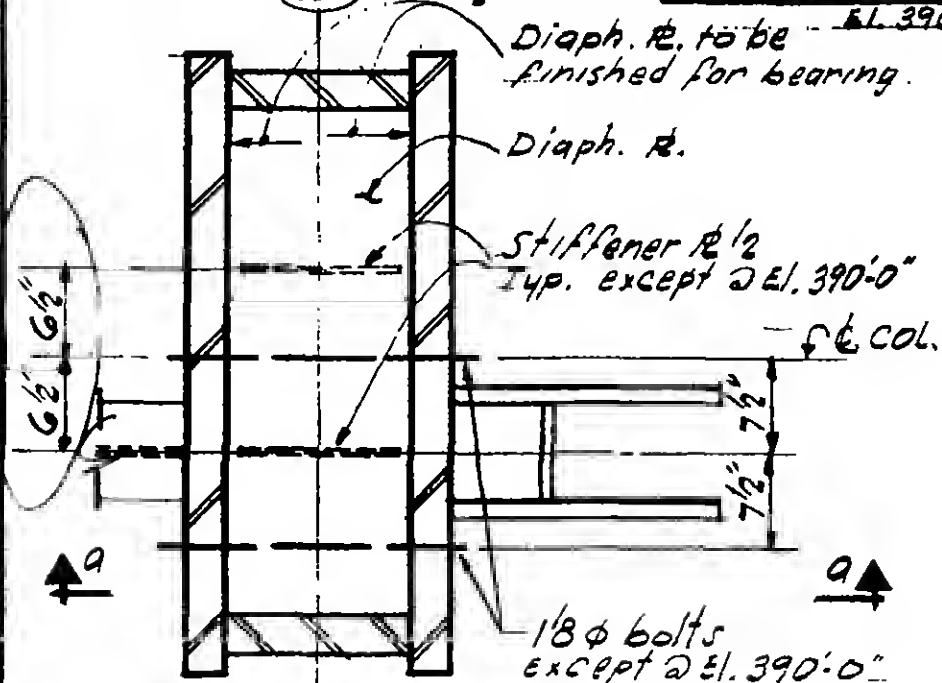
Diaph. R's 8x1 1/4

See Det. 380A
6-AB1-1871004
505

Eq. end

Section a-a

El. 390'

Diaph. R. to be
finished for bearing.

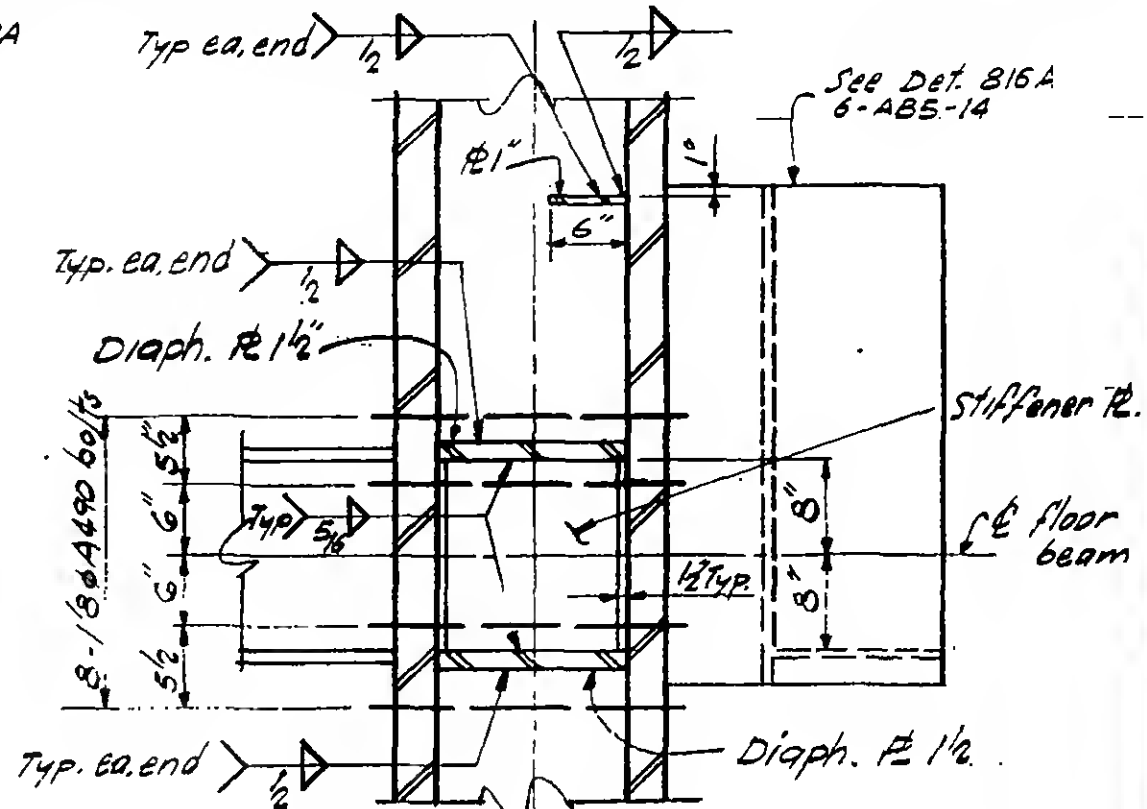
Diaph. R.

Stiffener R 1/2
Typ. except @ El. 390'-0"

to COL.

1/8 phi bolts
except @ El. 390'-0"

PLAN



Typ. ea. end

Diaph. R 1 1/2

See Det. 816A
6-AB5-14

Stiffener R.

Floor beam

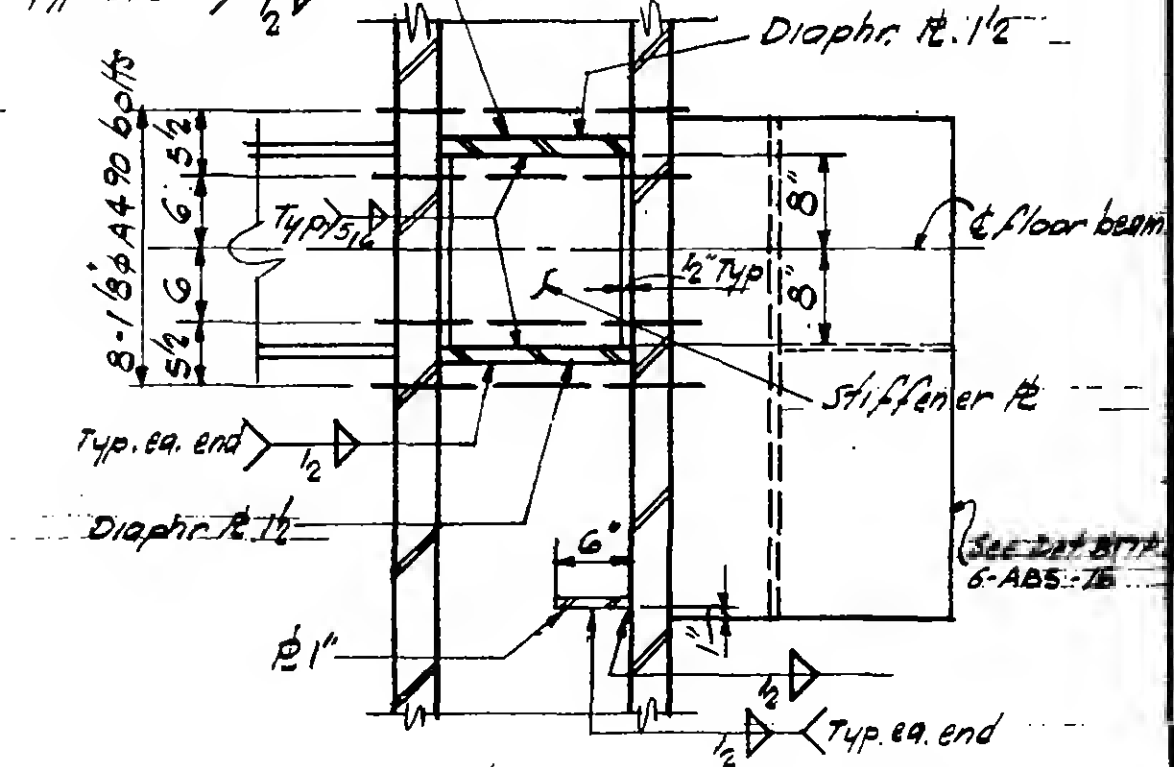
Typ. ea. end

Diaph. R 1/2

Section a-a

El. 355'-6"
El. 378'-6"

Typ. ea. end



Diaph. R. 1 1/2

Floor beam

Stiffener R.

See Det. 817A
6-AB5-76

Typ. ea. end

Diaph. R 1/2

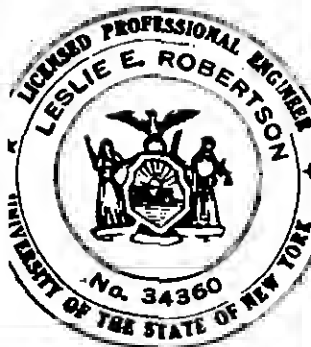
1"

Typ. ea. end

Section a-a

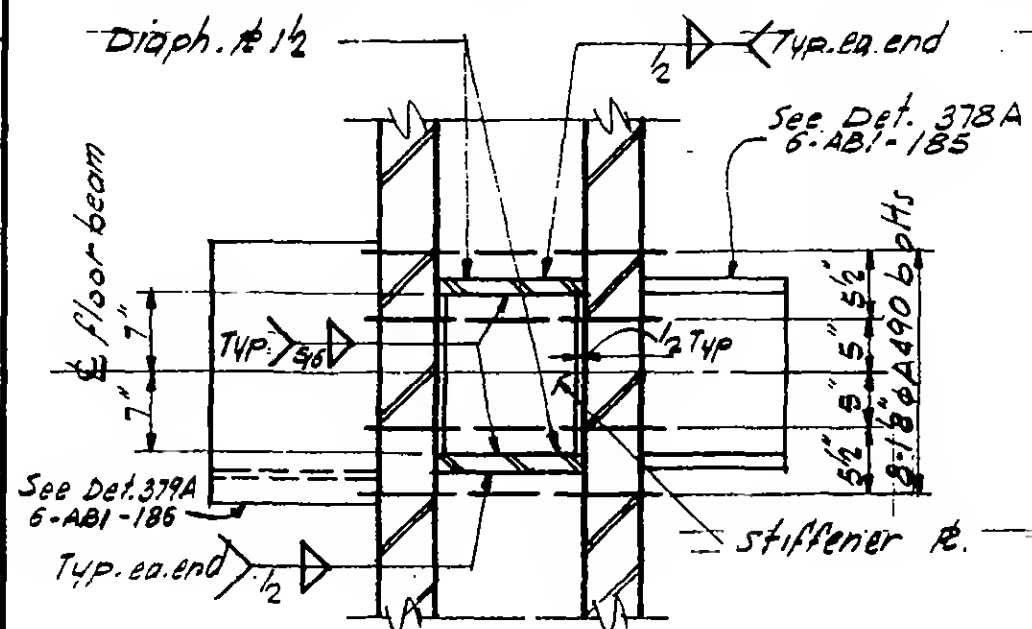
El. 344

6-AB5-90



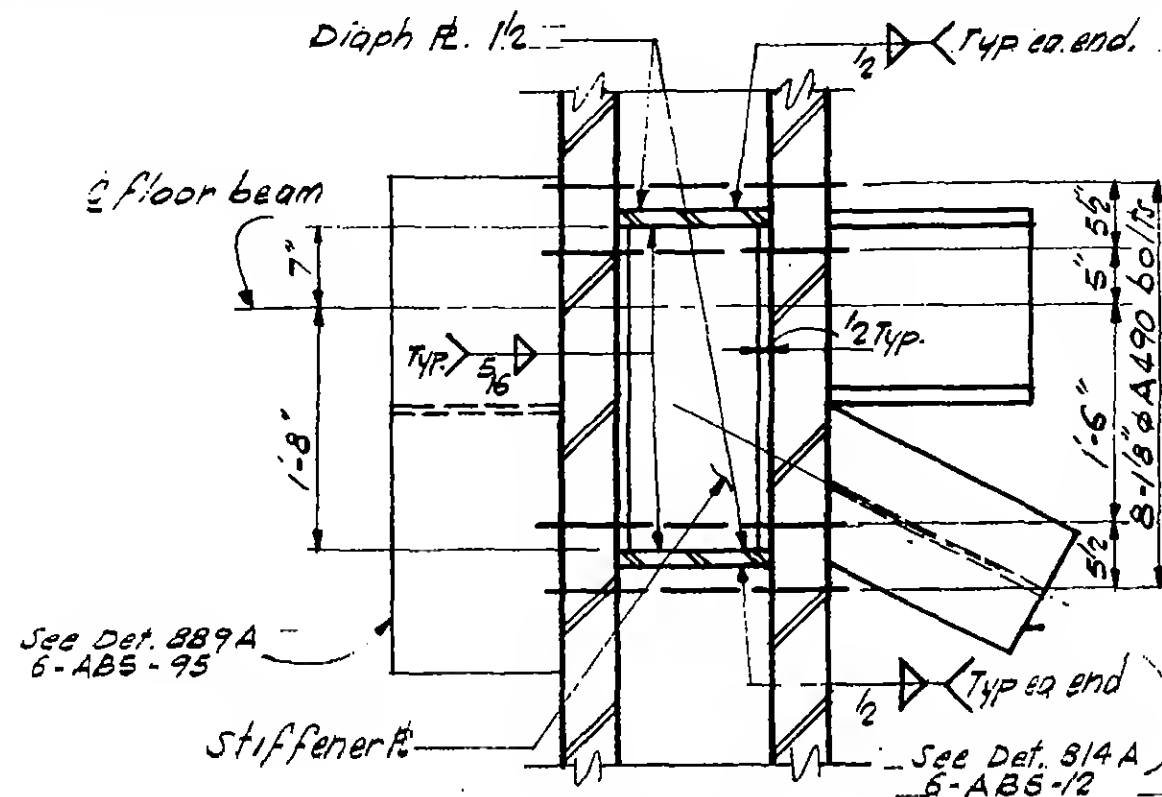
REVISIONS

9-29-67



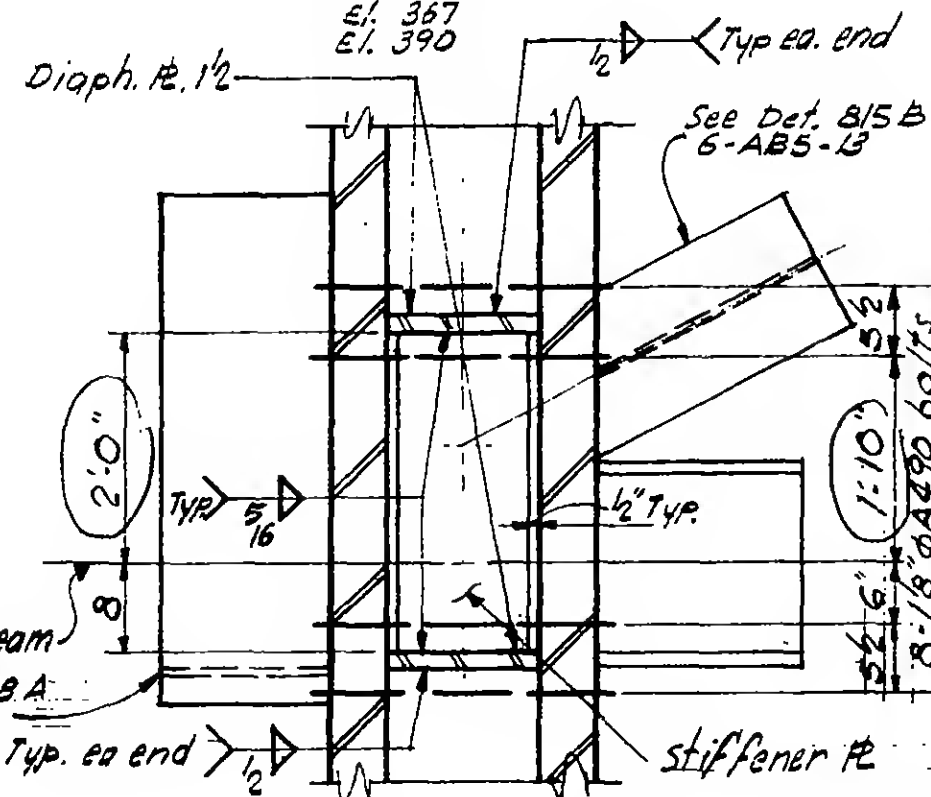
Section a-a

EI. 344
EI. 355-6"
EI. 378-6"



Section a-a

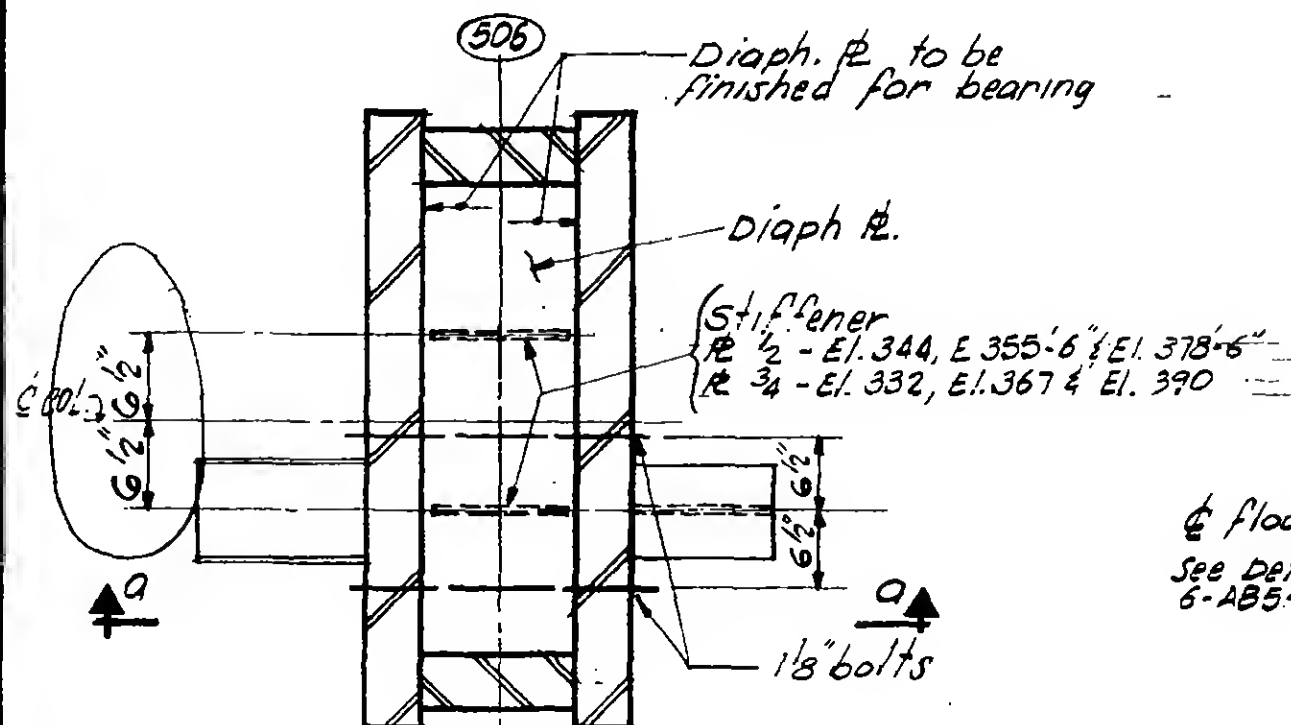
E! 367
E! 390



Section a-a

El. 332

6 - 485 - 91



PLAN



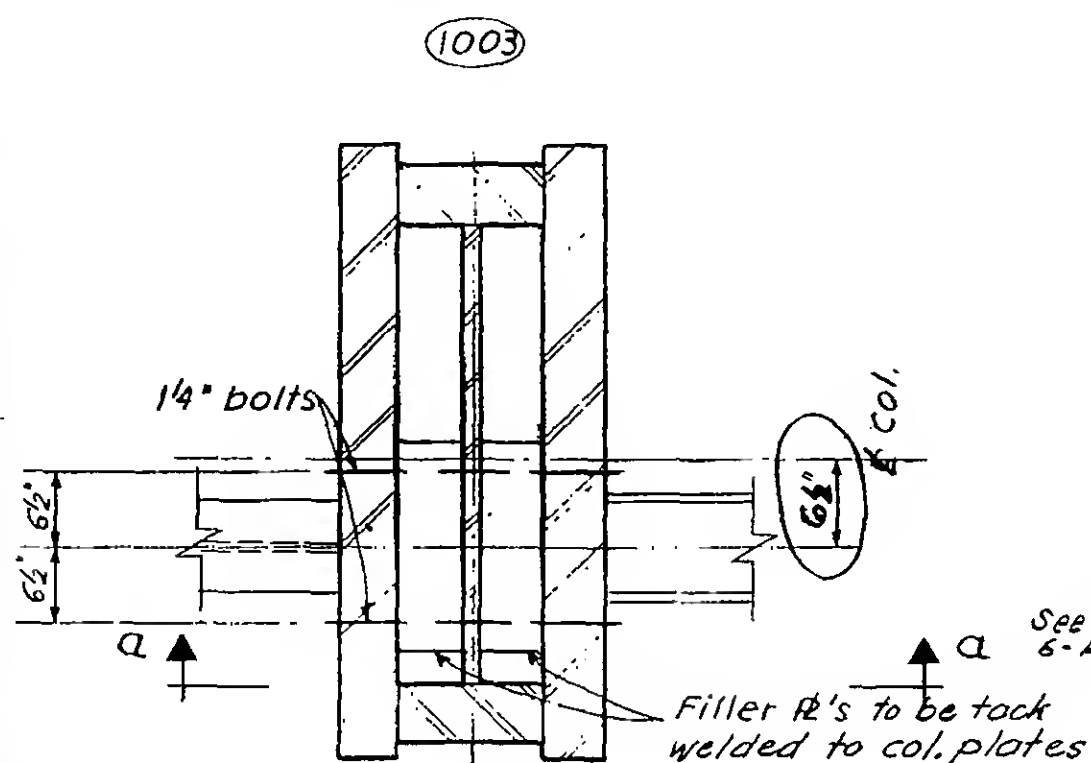
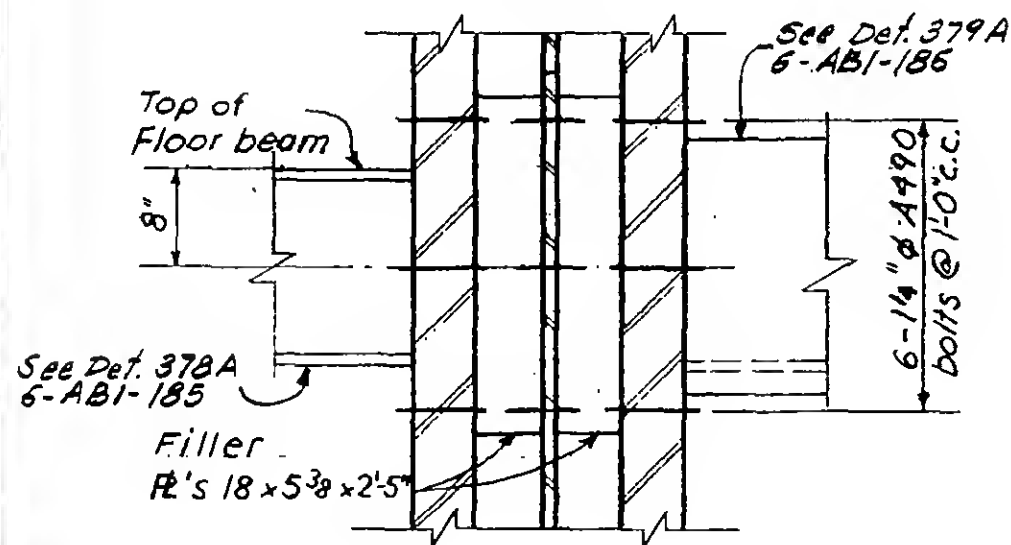
PROJECT THE WORLD TRADE CENTER

TITLE COLUMN REINFORCING AT BRACING. COL. 1003

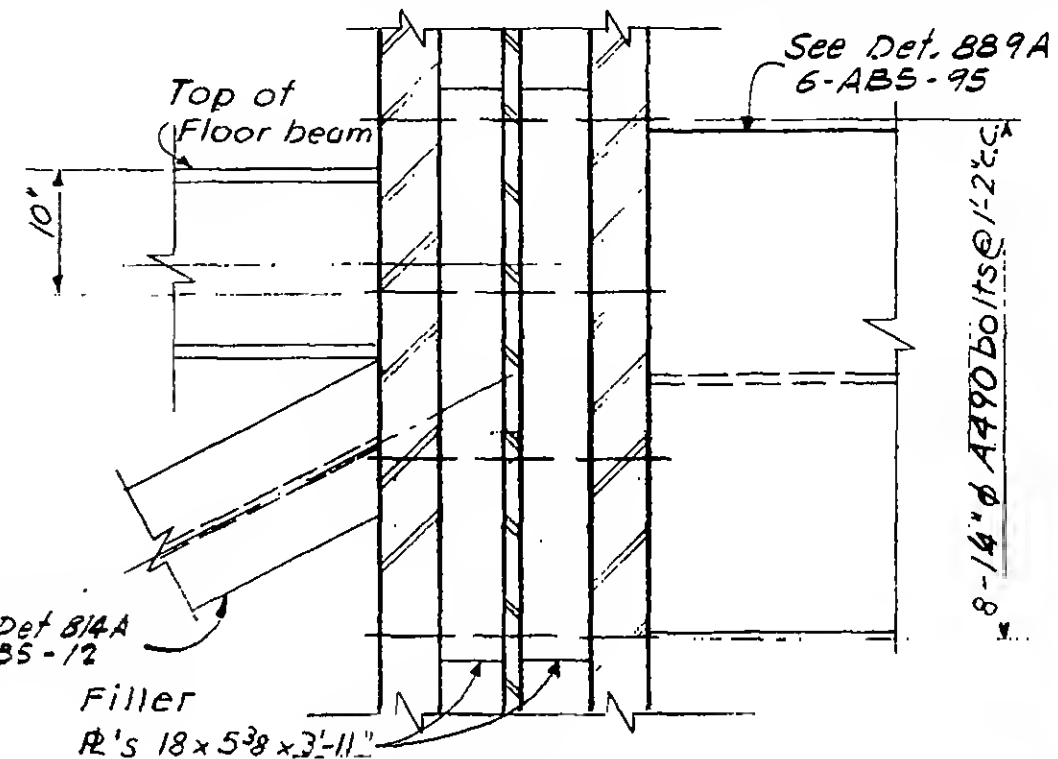
DATE 8-14-67

REVISIONS

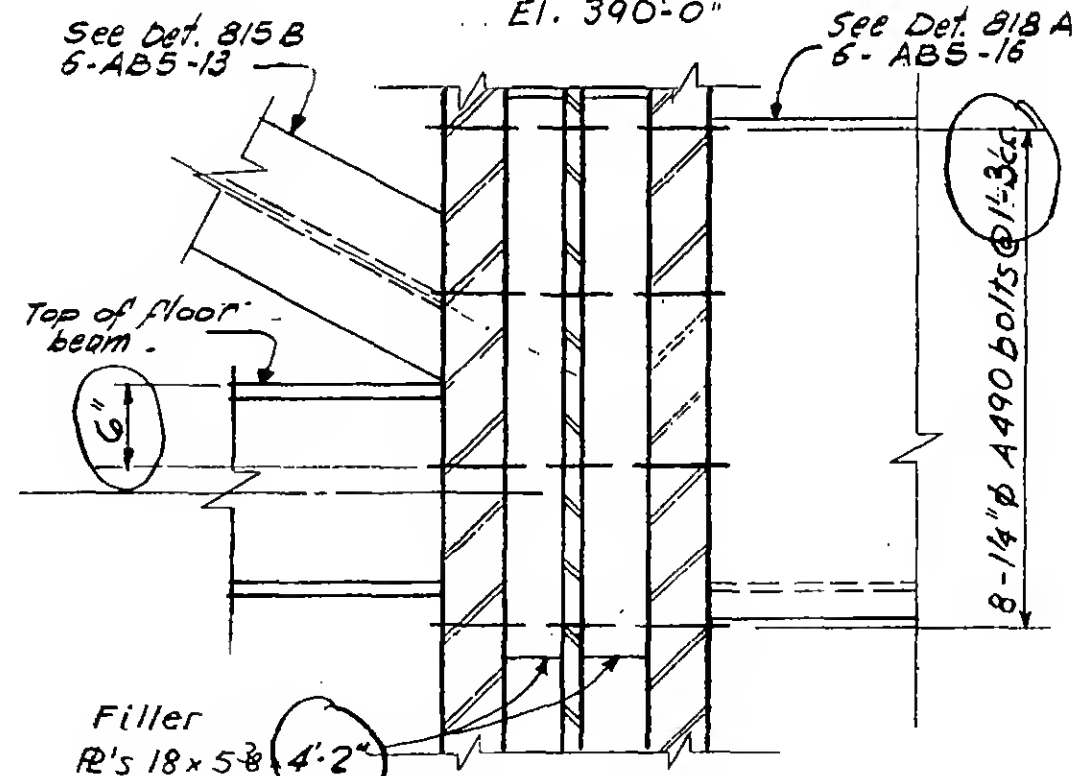
9-29-67

PlanSection a-a

El. 344'-0"
El. 355'-6"
El. 378'-6"

Section a-a

El. 367'-0"
El. 390'-0"

Section a-a

El. 332'-0"

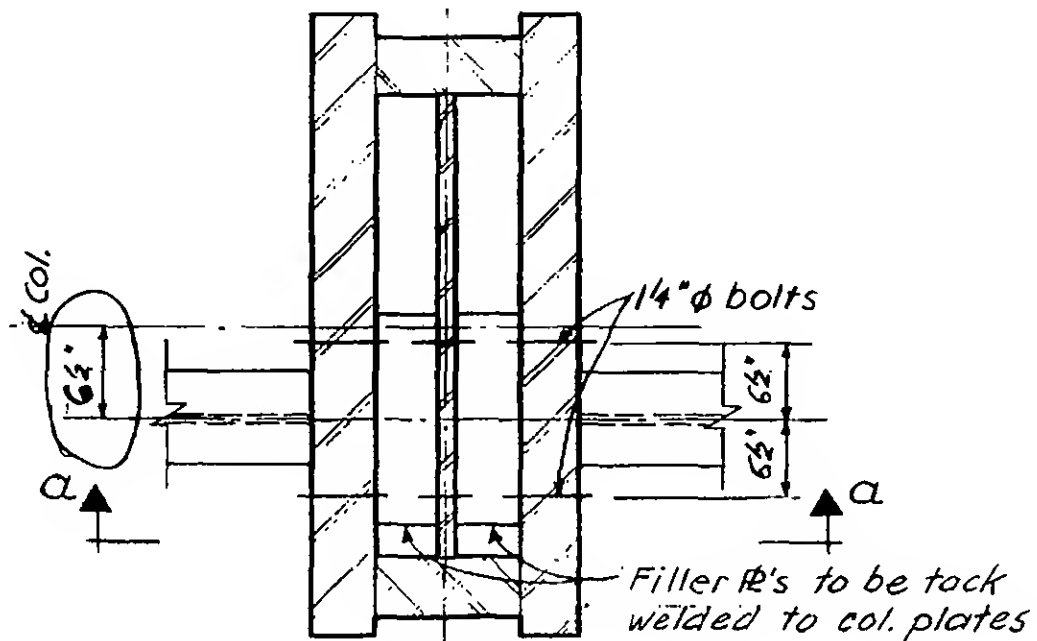
6-AB5-92



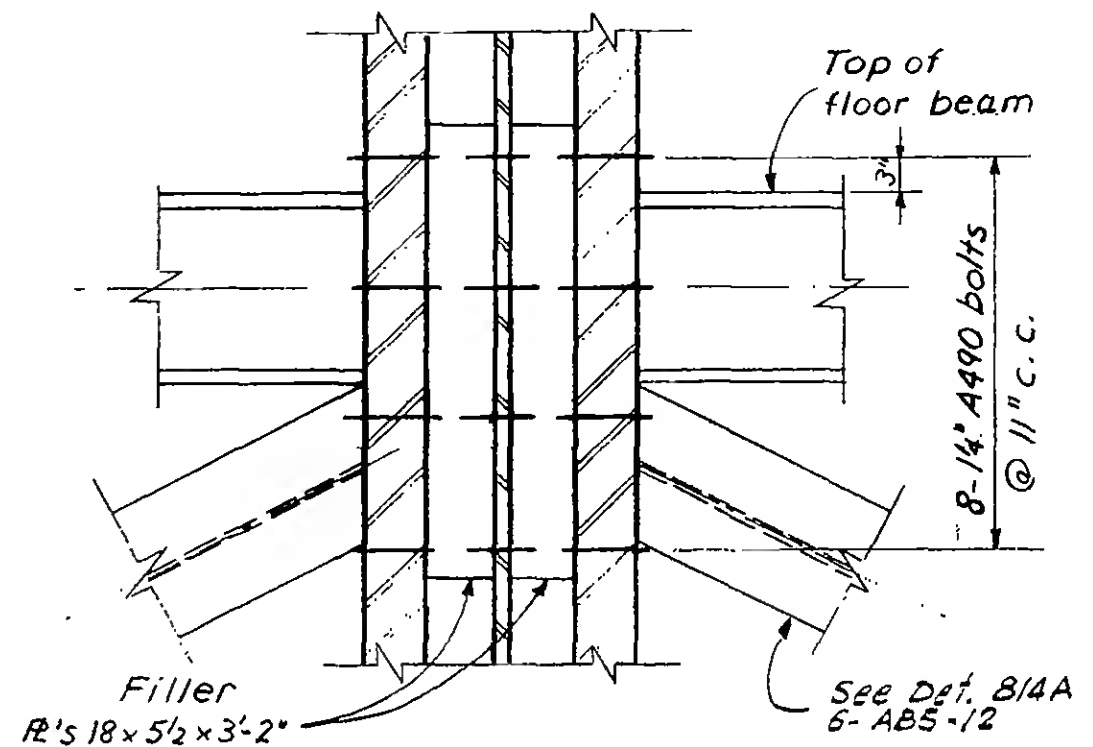
REVISIONS

9-29-67

1006



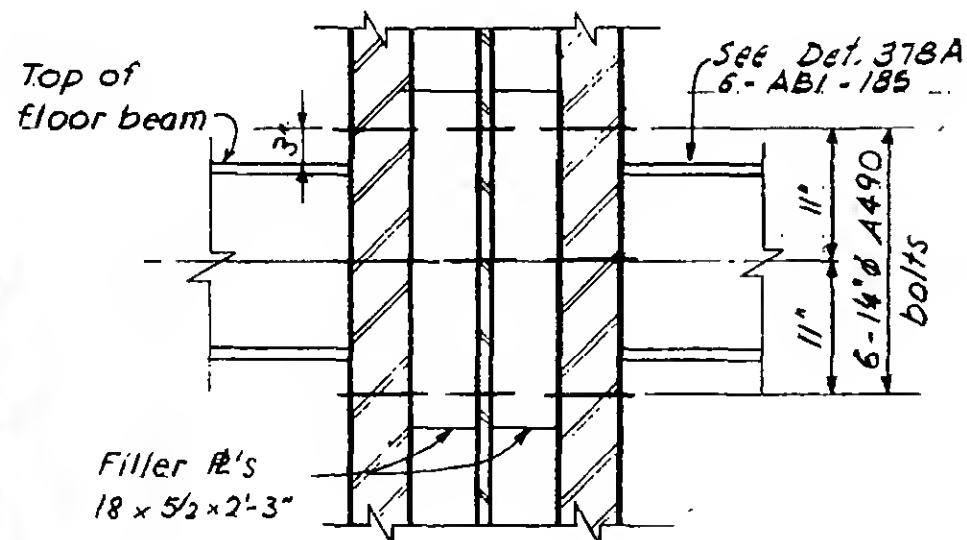
PJan



Section a-a

El. 367' - 0"

El. 390'-0"

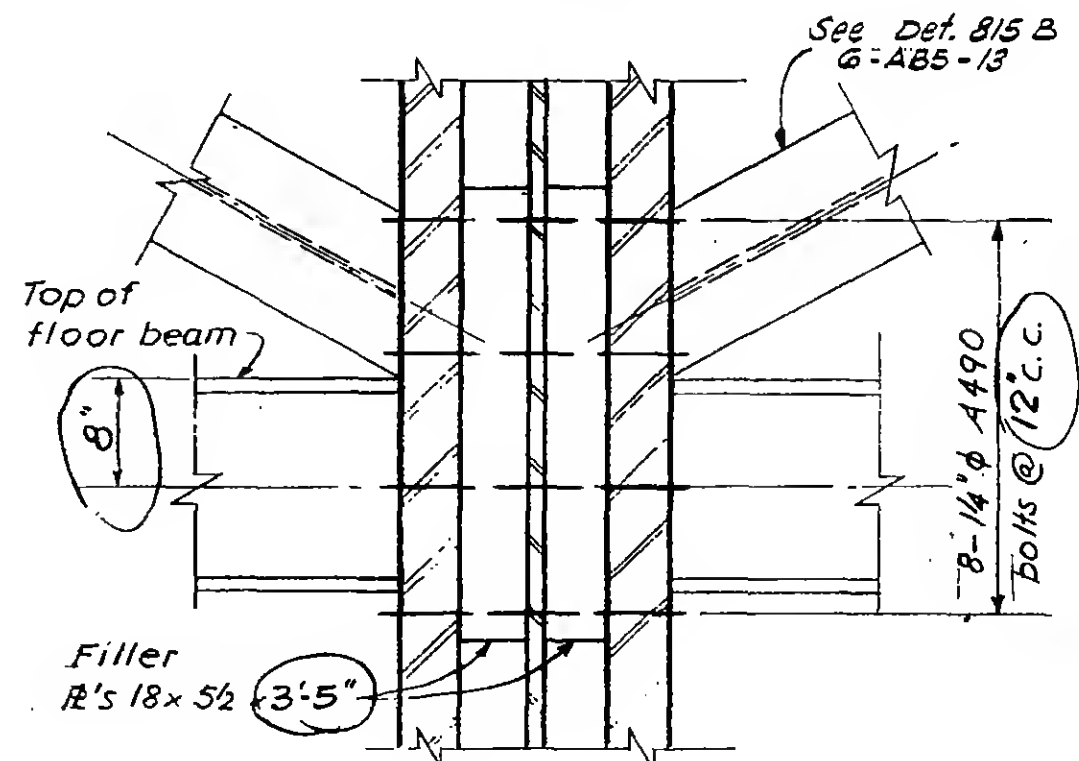


Section a-a

El. 344'-0"

El. 355'-6"

El. 378'-6"



Section a-a

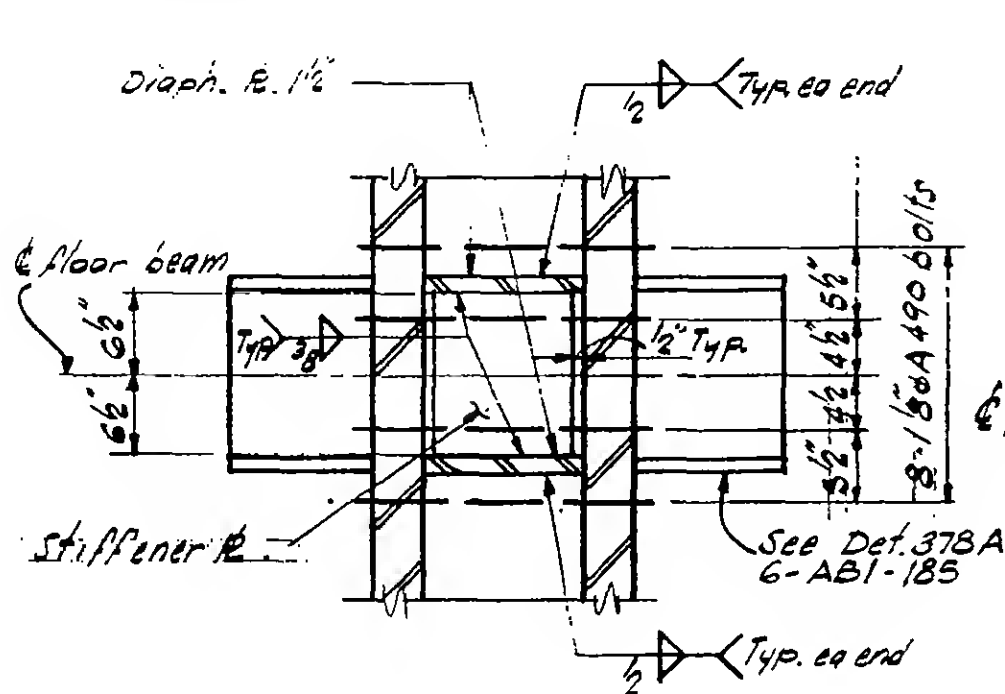
E1. 332'-0"

6-AB5-93



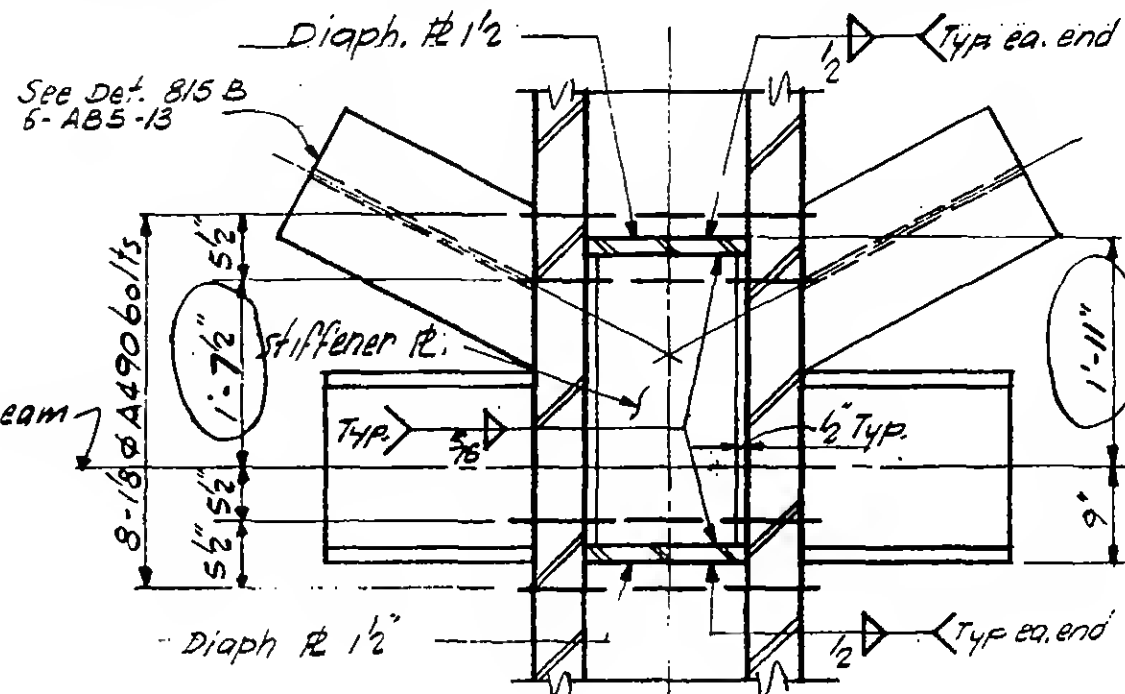
REVISIONS

9-29-67



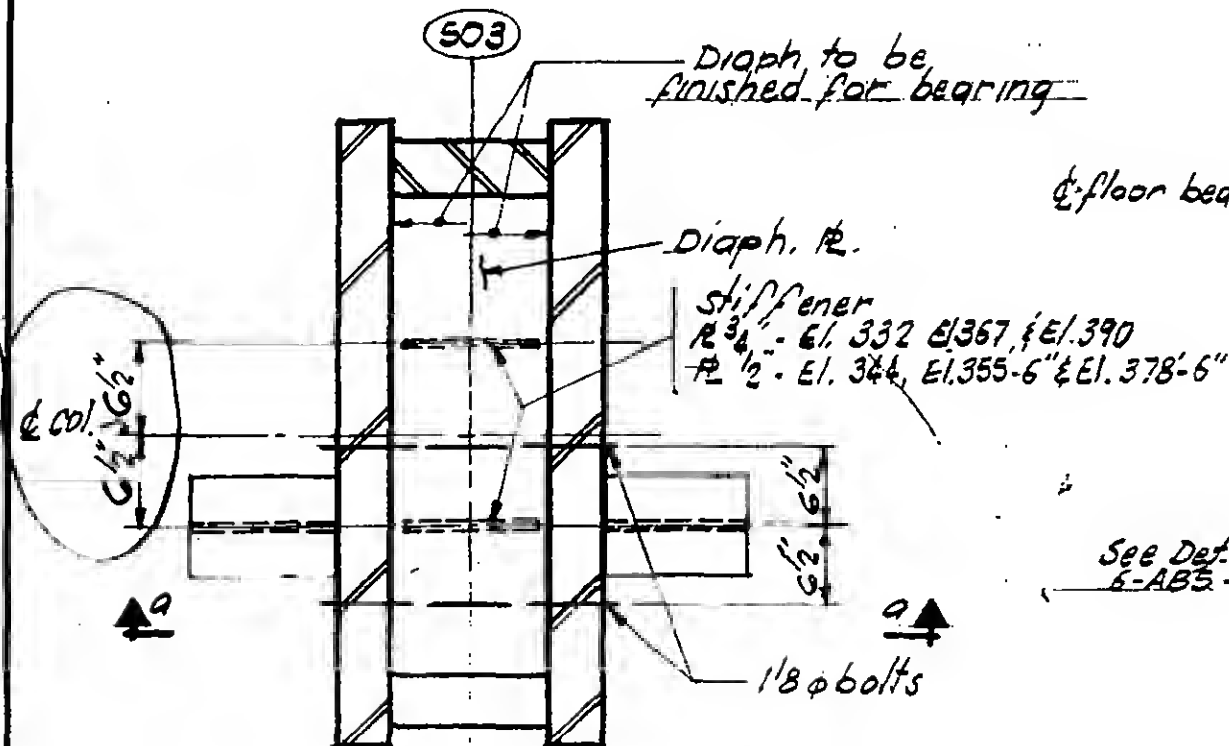
Section a-a

El. 346
El. 355'-6"
El. 378'-6"

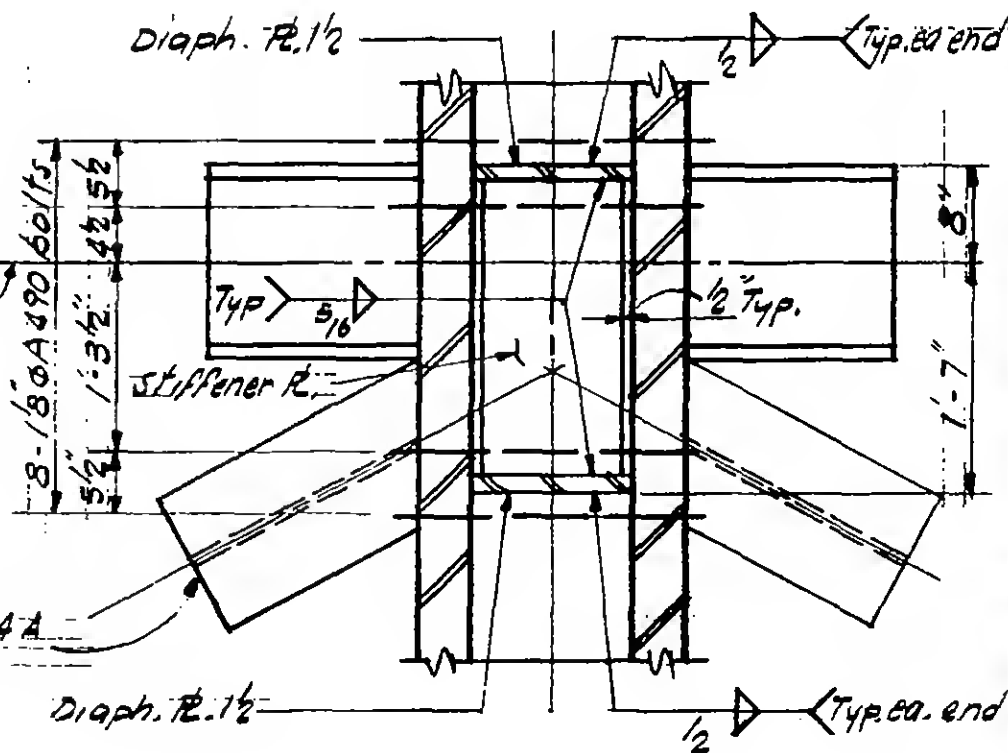


Section a-a

El. 332'



PLAN



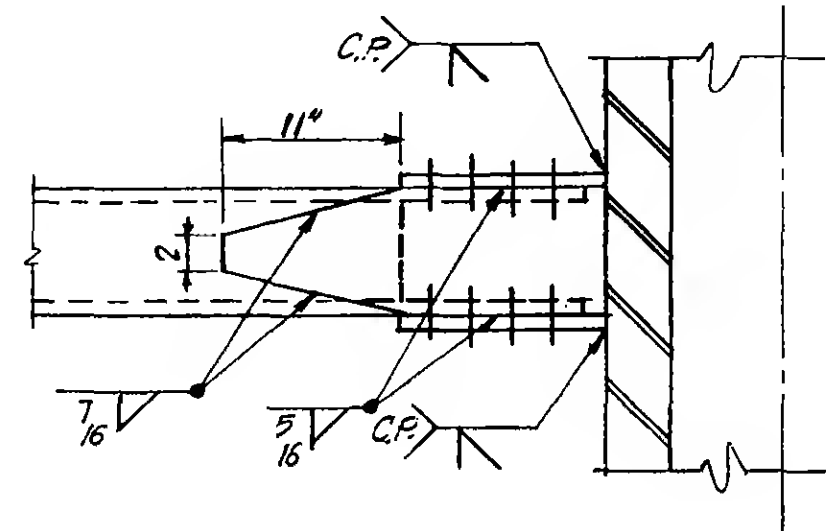
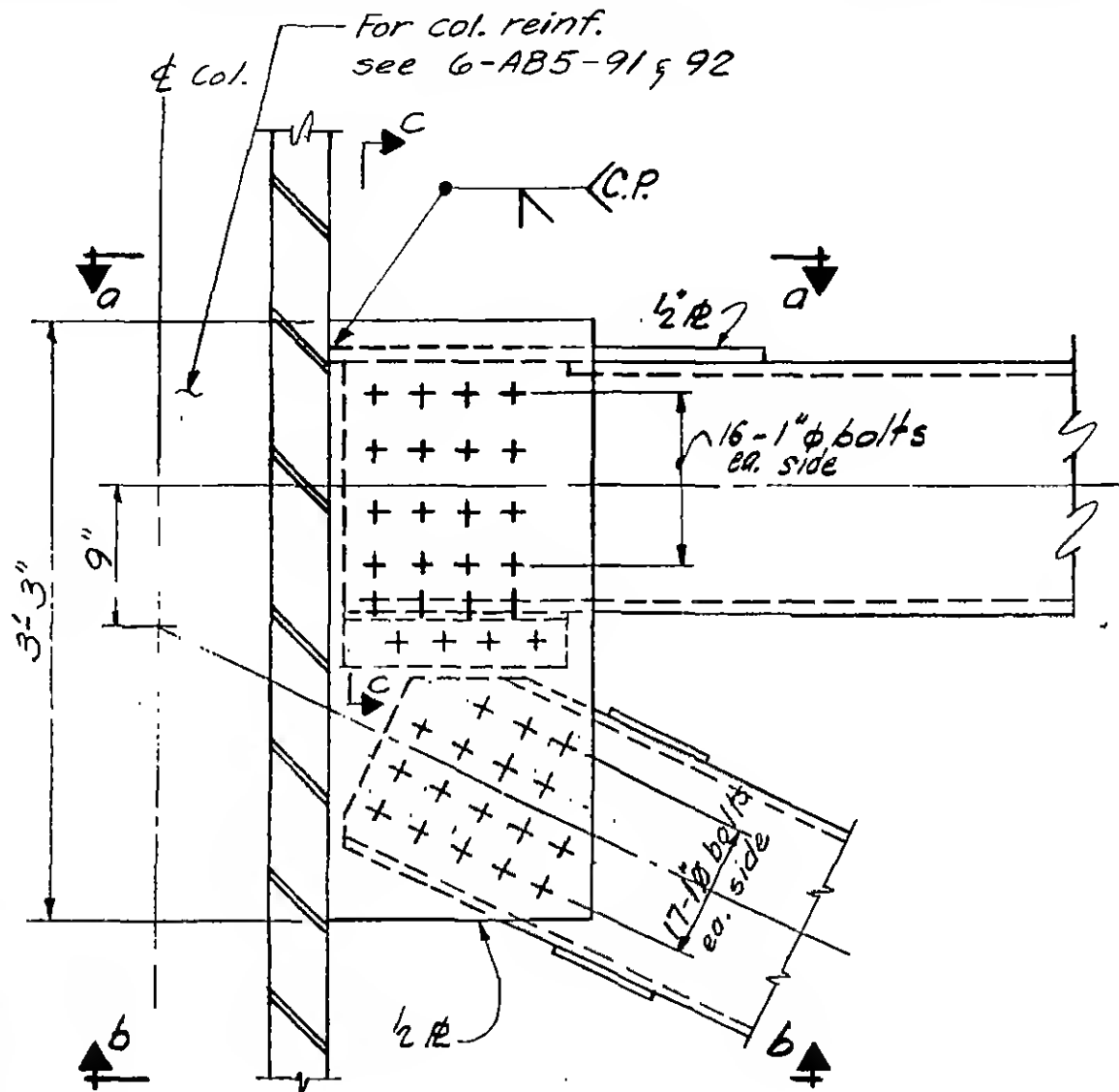
Section a-a

El. 367
El. 390

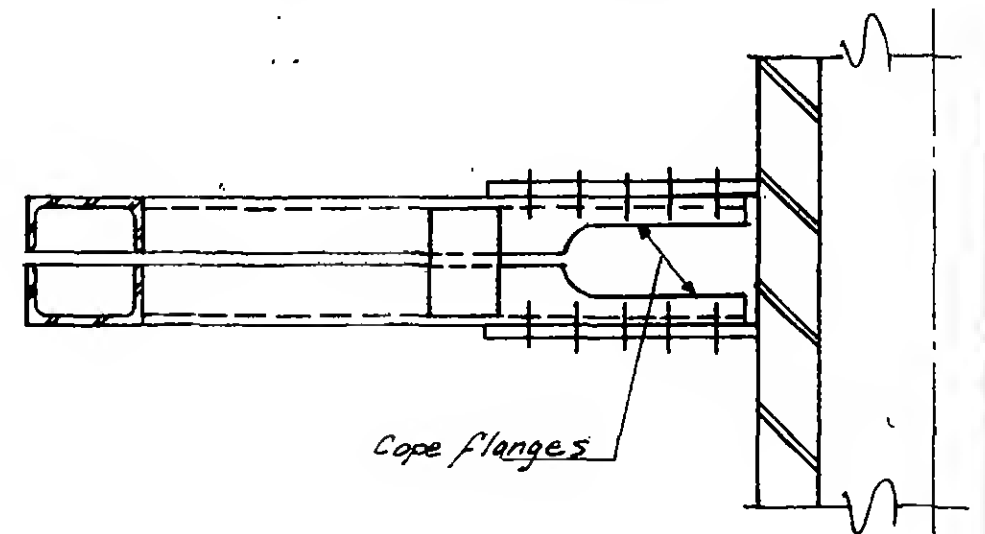
6-AB5-94



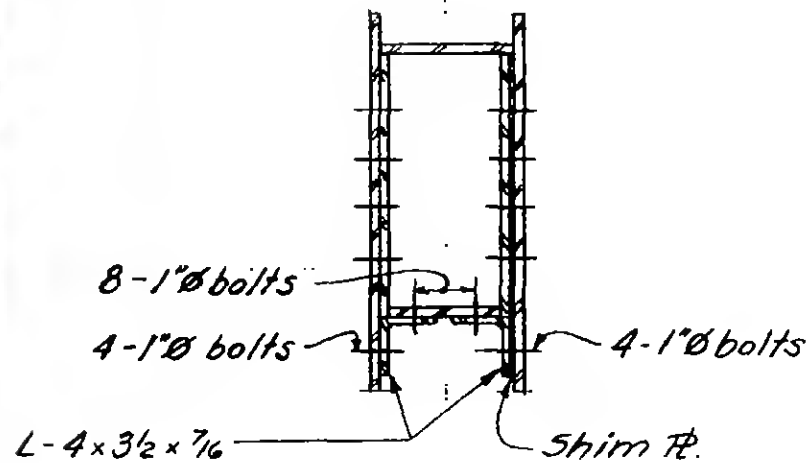
REVISIONS



SECTION a-a



SECTION b-b

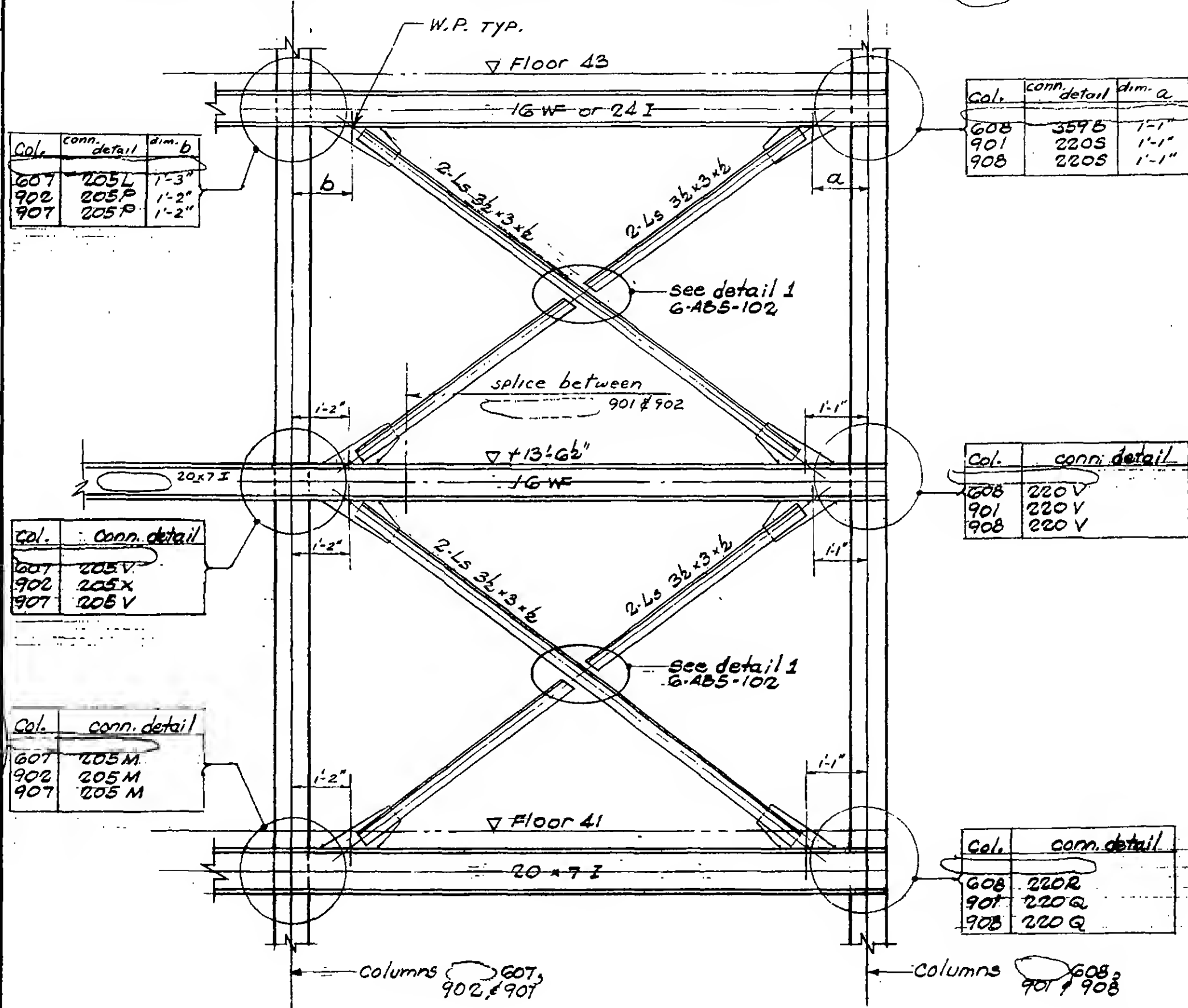


Section c-c



REVISIONS

12-19-67
1-24-68



PROJECT *THE WORLD TRADE CENTER*

TITLE *VERTICAL BRACING SECTION B-B*

DATE *10-31-67*

REVISIONS

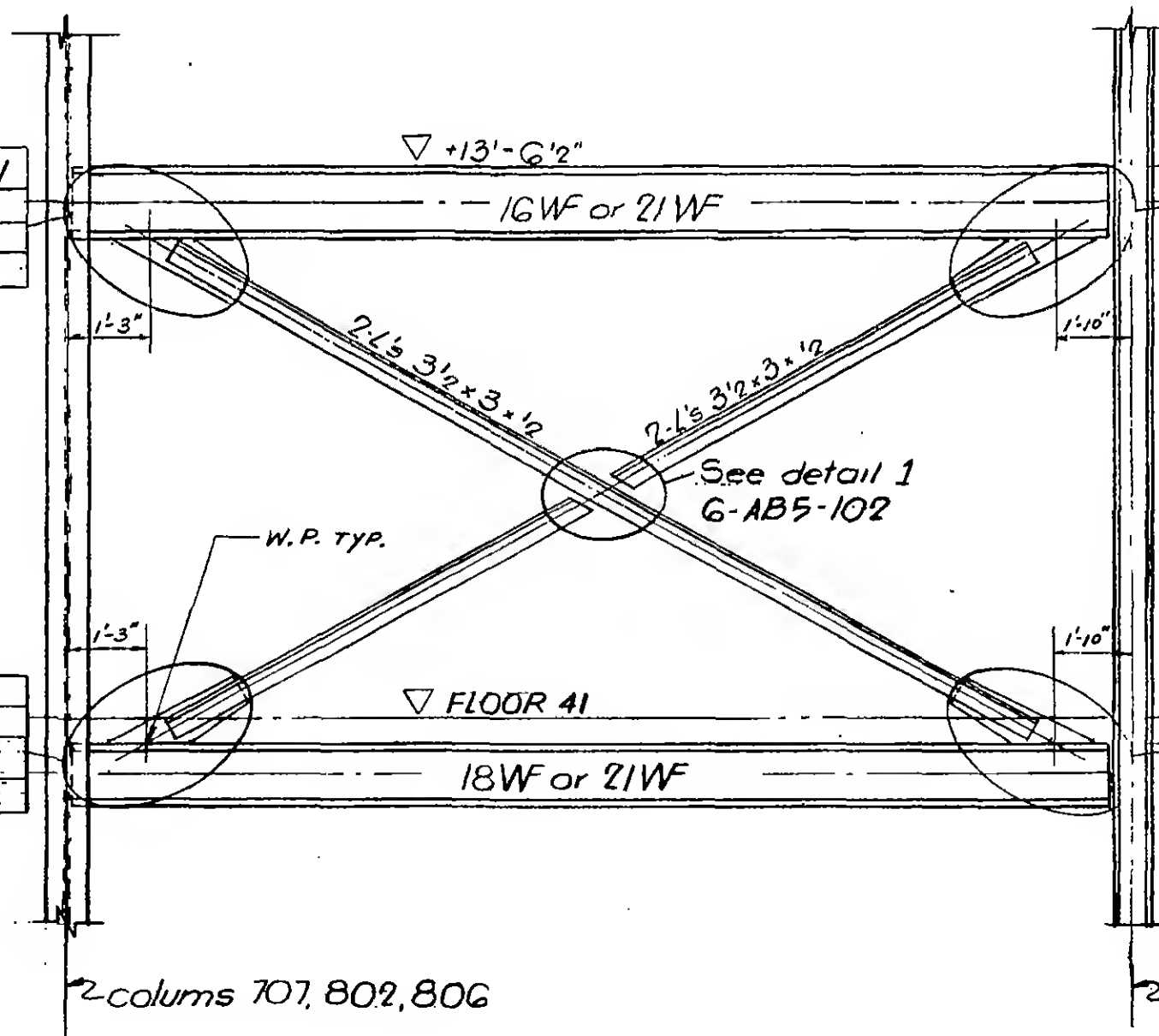
12-19-67
1-24-68

col.	conn. detail
707	106R
802	106R
806	106N

col.	conn. detail
707	106I
802	106I
806	106I

col.	conn. detail
708	111R
801	111R
807	111V

col.	conn. detail
708	111S
801	111S
807	111S

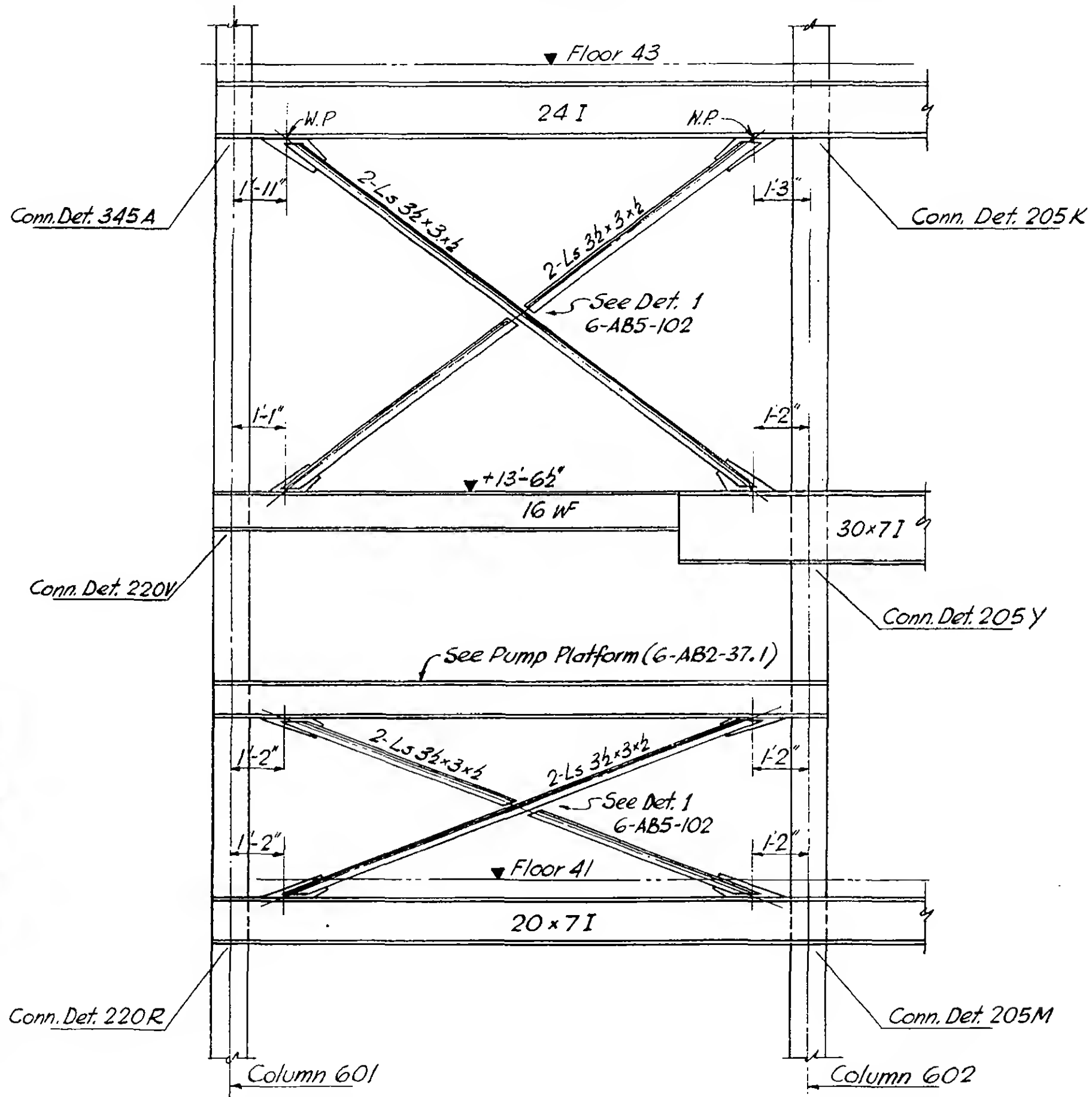


2 columns 707, 802, 806

2 columns 708, 801, 807



REVISIONS



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

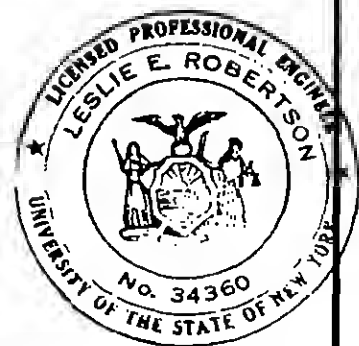
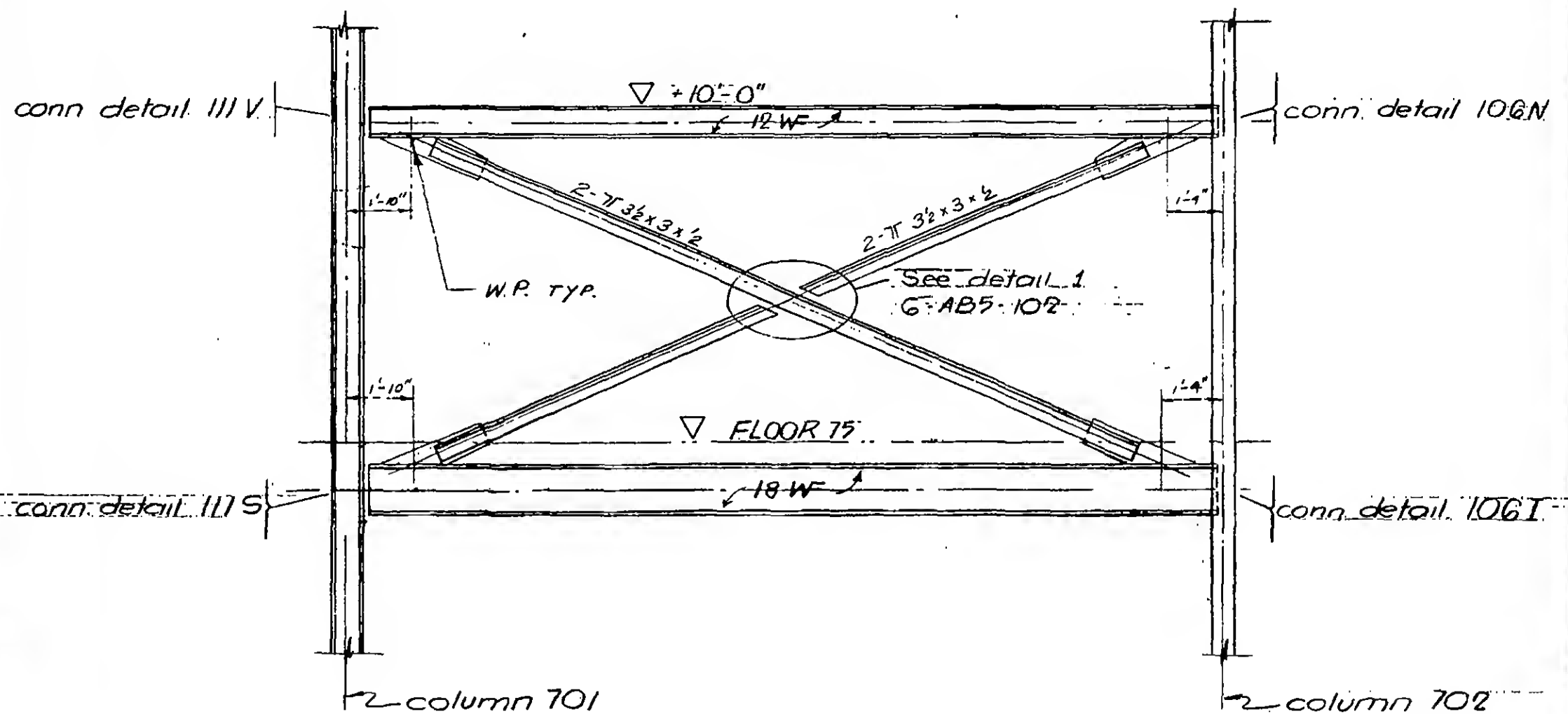
PROJECT THE WORLD TRADE CENTER

TITLE VERTICAL BRACING SECTION (F-F)

DATE 10-31-67

REVISIONS

12-19-67
2-21-68



6-AB5-98

PROJECT THE WORLD TRADE CENTER

TITLE VERTICAL BRACING SECTION E-E

DATE 10-31-67

REVISIONS

12-19-67

2-21-68

col.	conn. detail
G01	220S
G08	220S

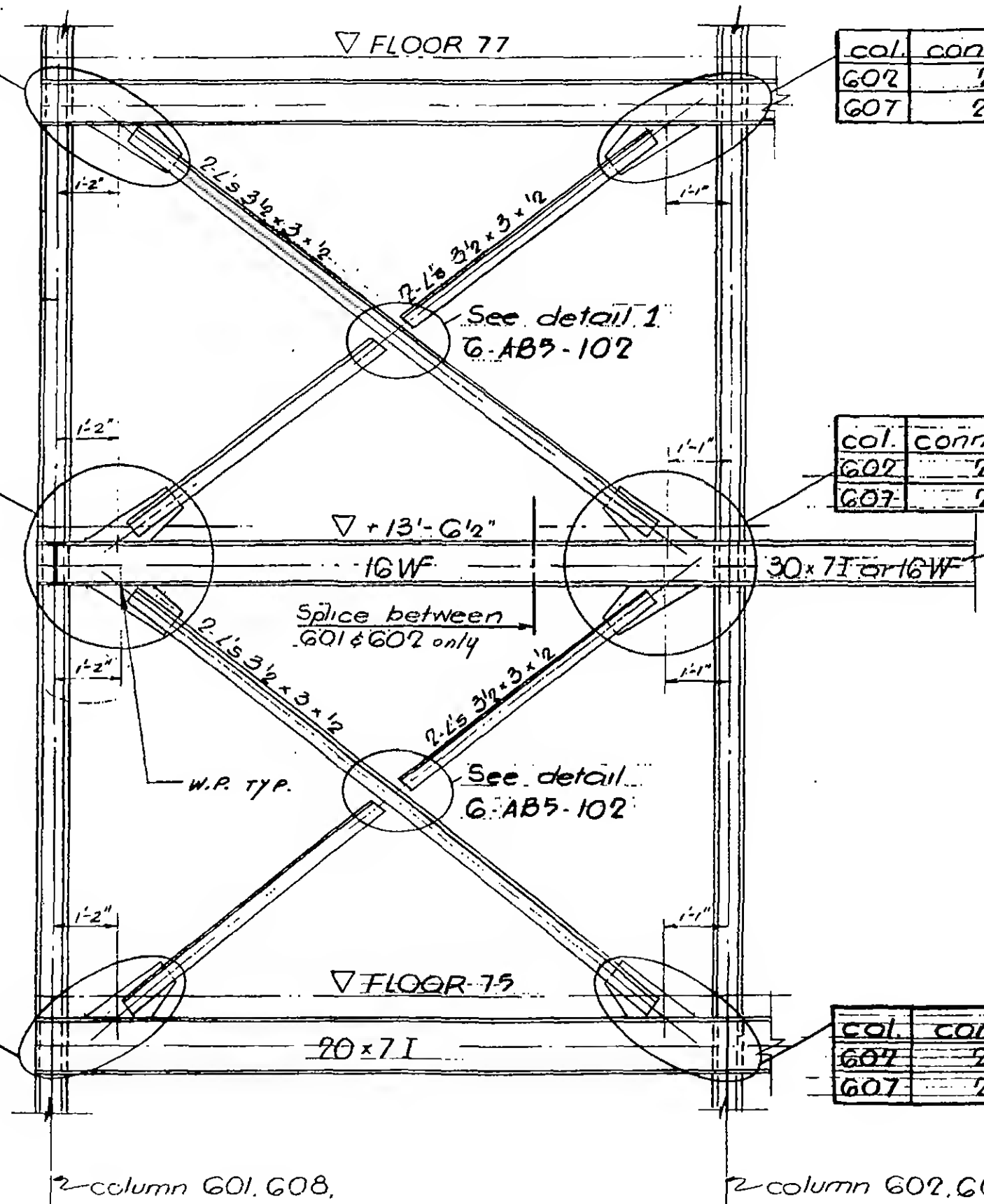
col.	conn. detail
G02	205P
G07	205P

col.	conn. detail
G01	306D
G08	306D

col.	conn. detail
G02	205Y
G07	205V

col.	conn. detail
G01	220Q
G08	220Q

col.	conn. detail
G02	205M
G07	205M



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PROJECT THE WORLD TRADE CENTER

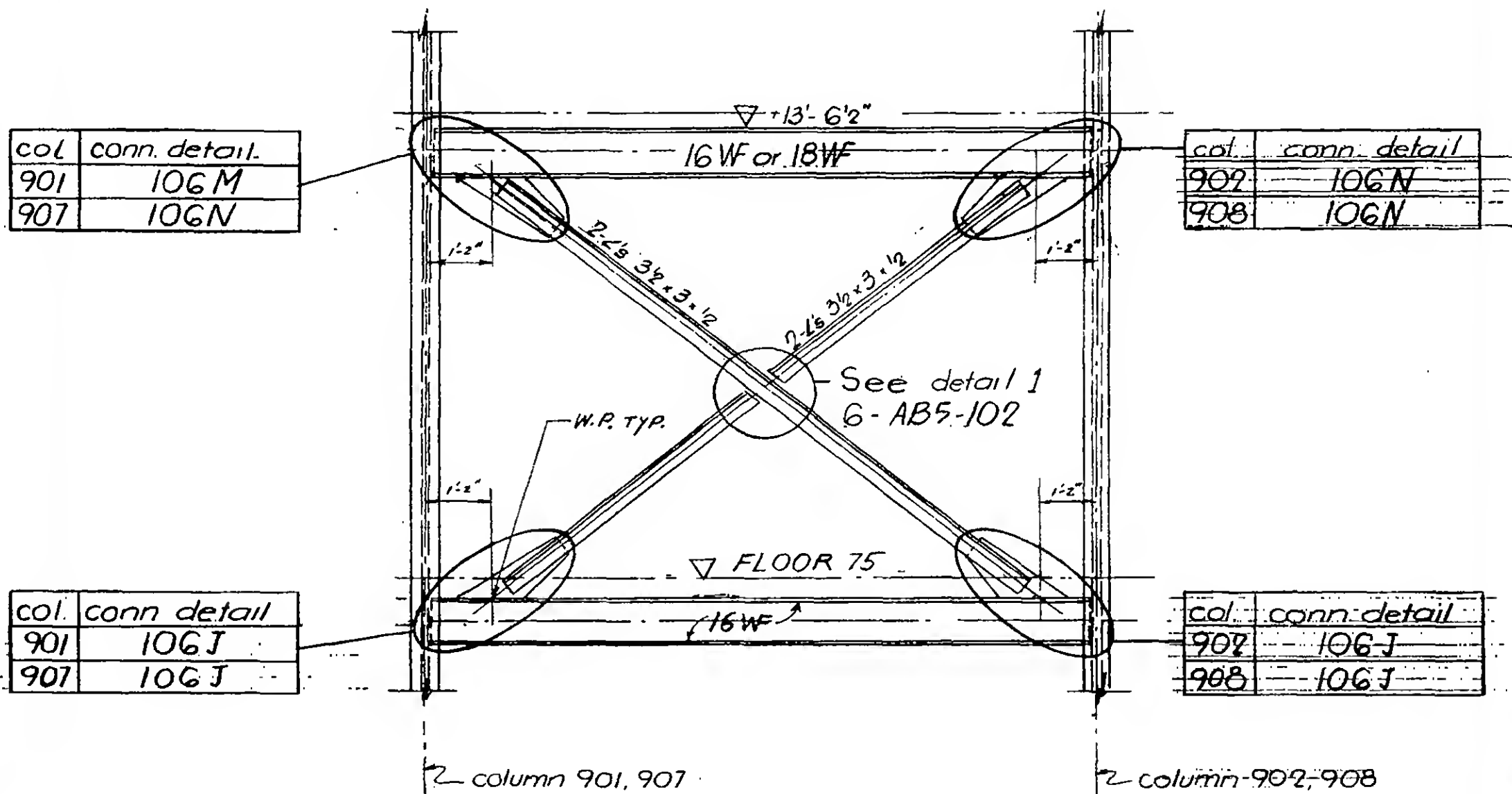
TITLE VERTICAL BRACING SECTION D-D

DATE 10-31-67

REVISIONS

12-19-67

2-21-68



6-AB5-100

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PROJECT THE WORLD TRADE CENTER

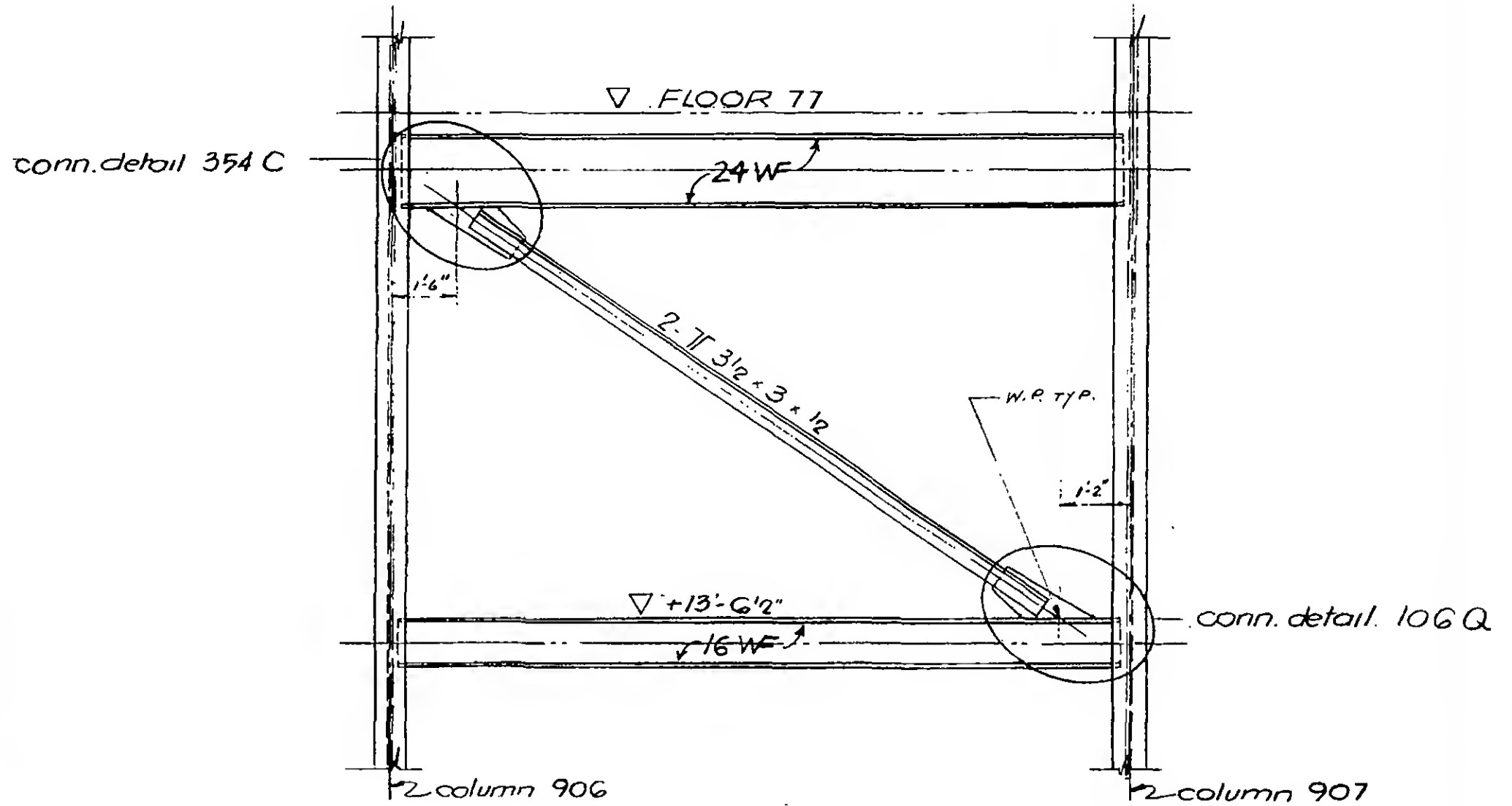
TITLE VERTICAL BRACING SECTION 6-6

DATE 10-31-67

REVISIONS

12-19-67

2-21-68



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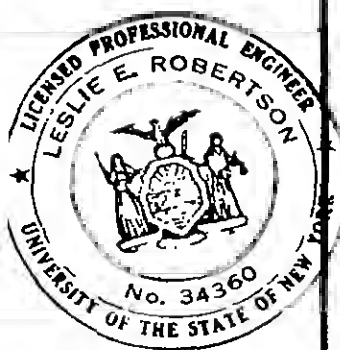
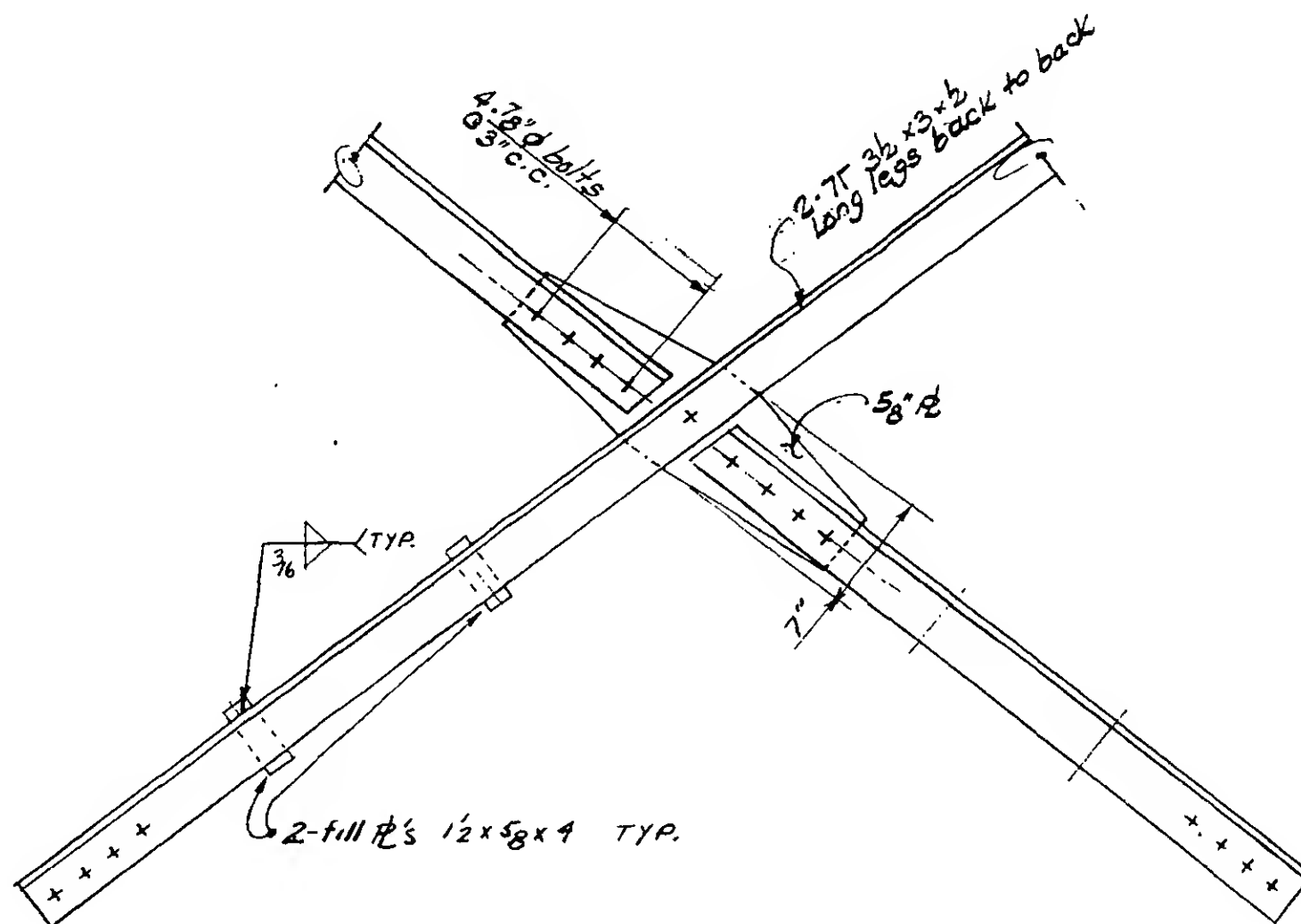
PROJECT THE WORLD TRADE CENTER

TITLE DIAGONAL BRACING DETAIL 1

DATE 10-31-67

REVISIONS

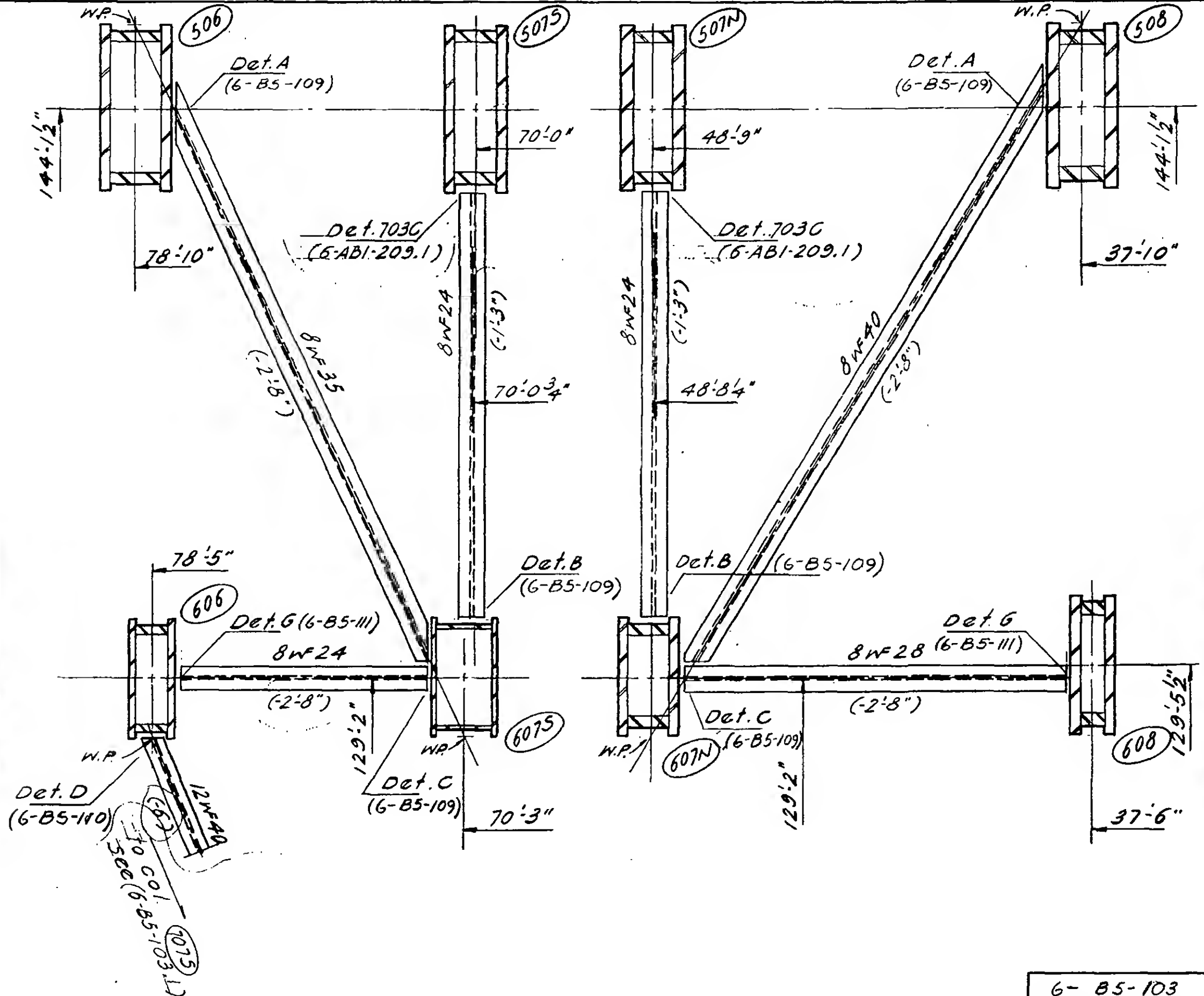
11-17-67



G-AB5-102

REVISIONS

3-11-68

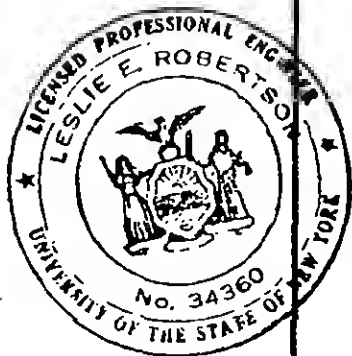
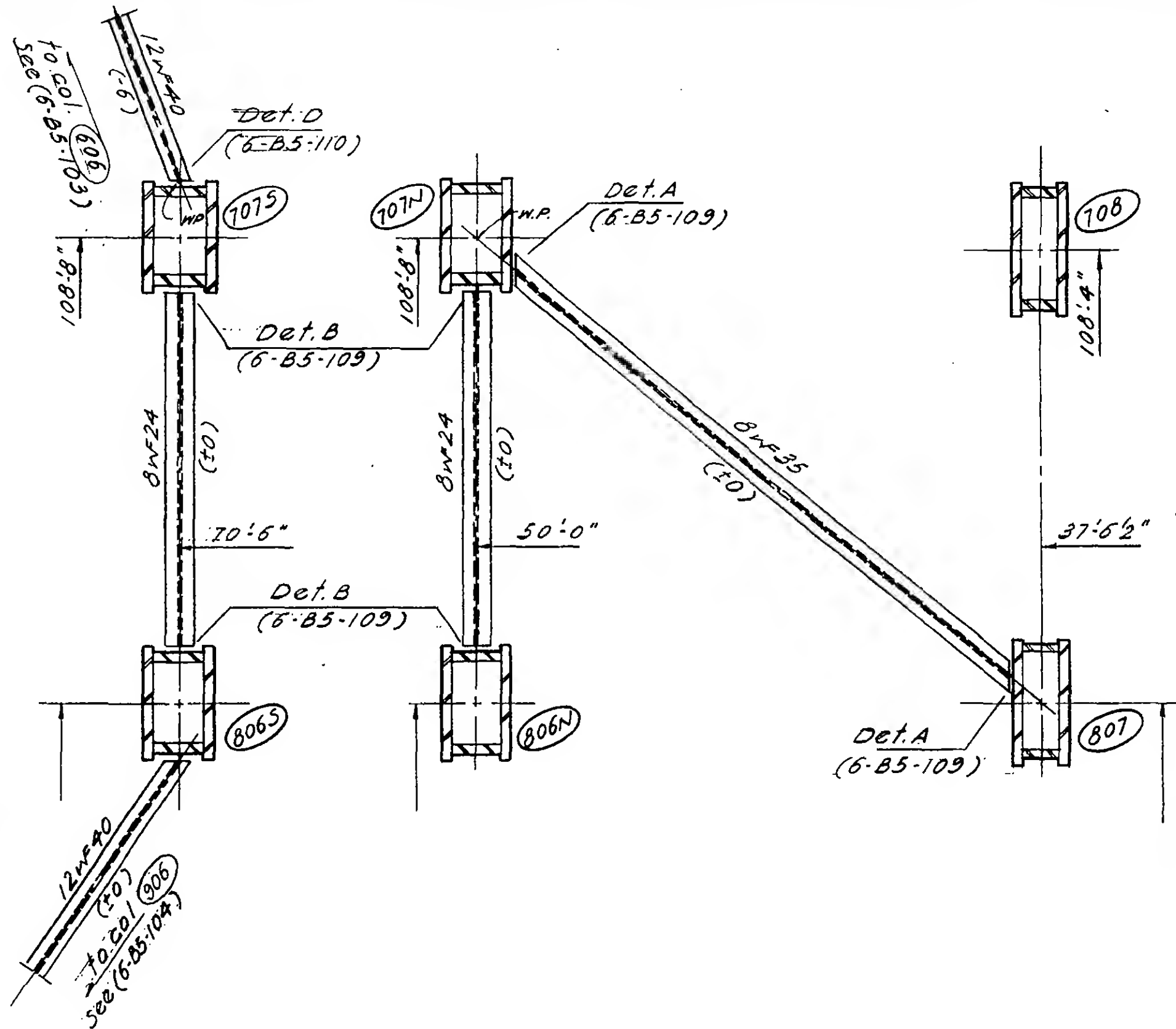


PROJECT THE WORLD TRADE CENTER

TITLE TEMPORARY COLUMN BRACING E.L. 264'

DATE 3-11-68

REVISIONS



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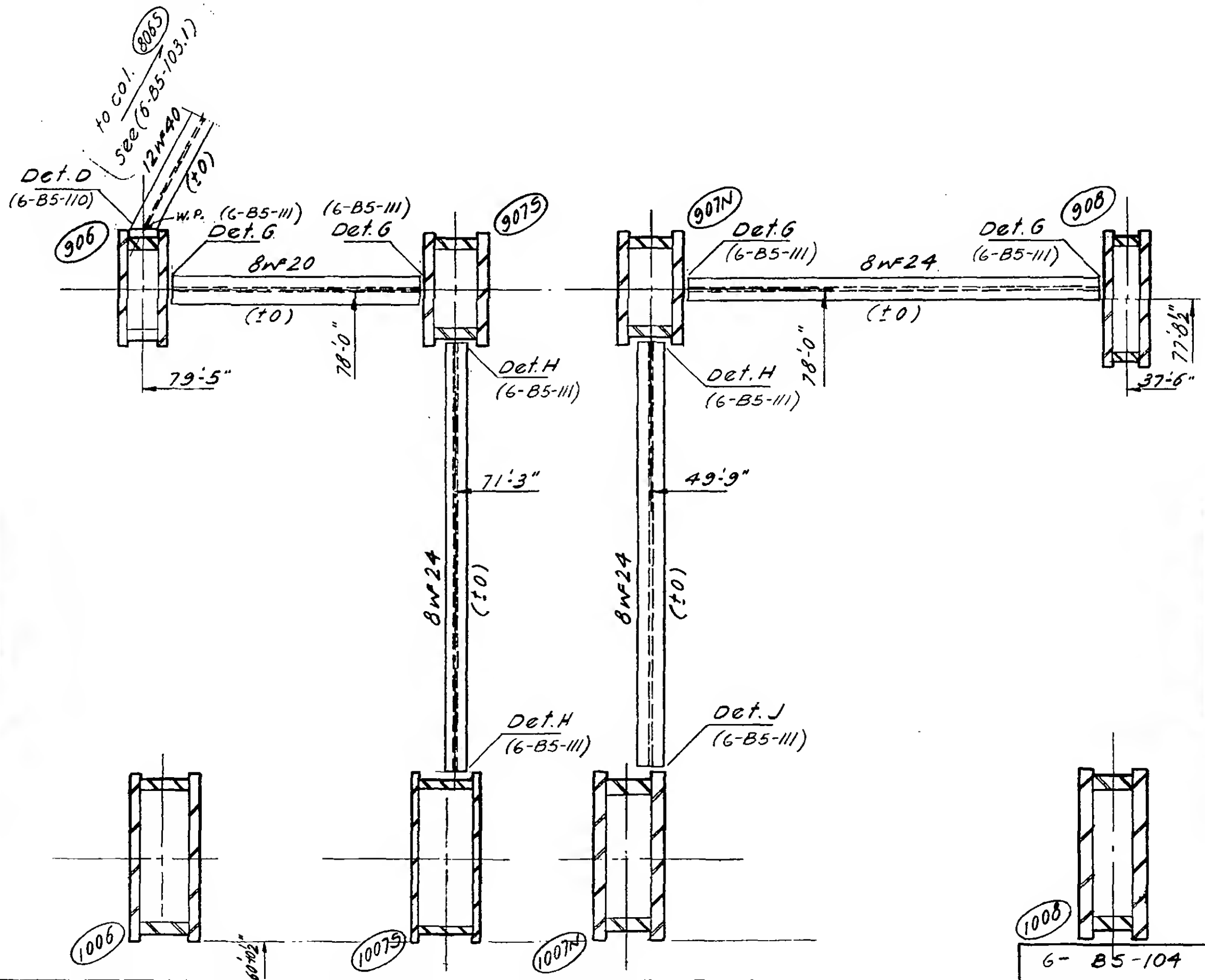
PROJECT THE WORLD TRADE CENTER

TITLE TEMPORARY COLUMN BRACING EL. 264'

DATE 2-9-68

REVISIONS

3-11-68



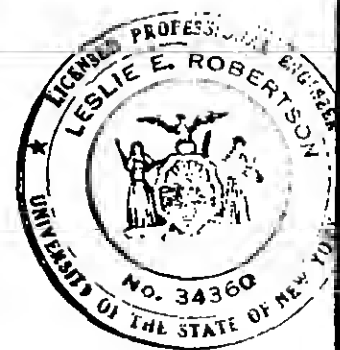
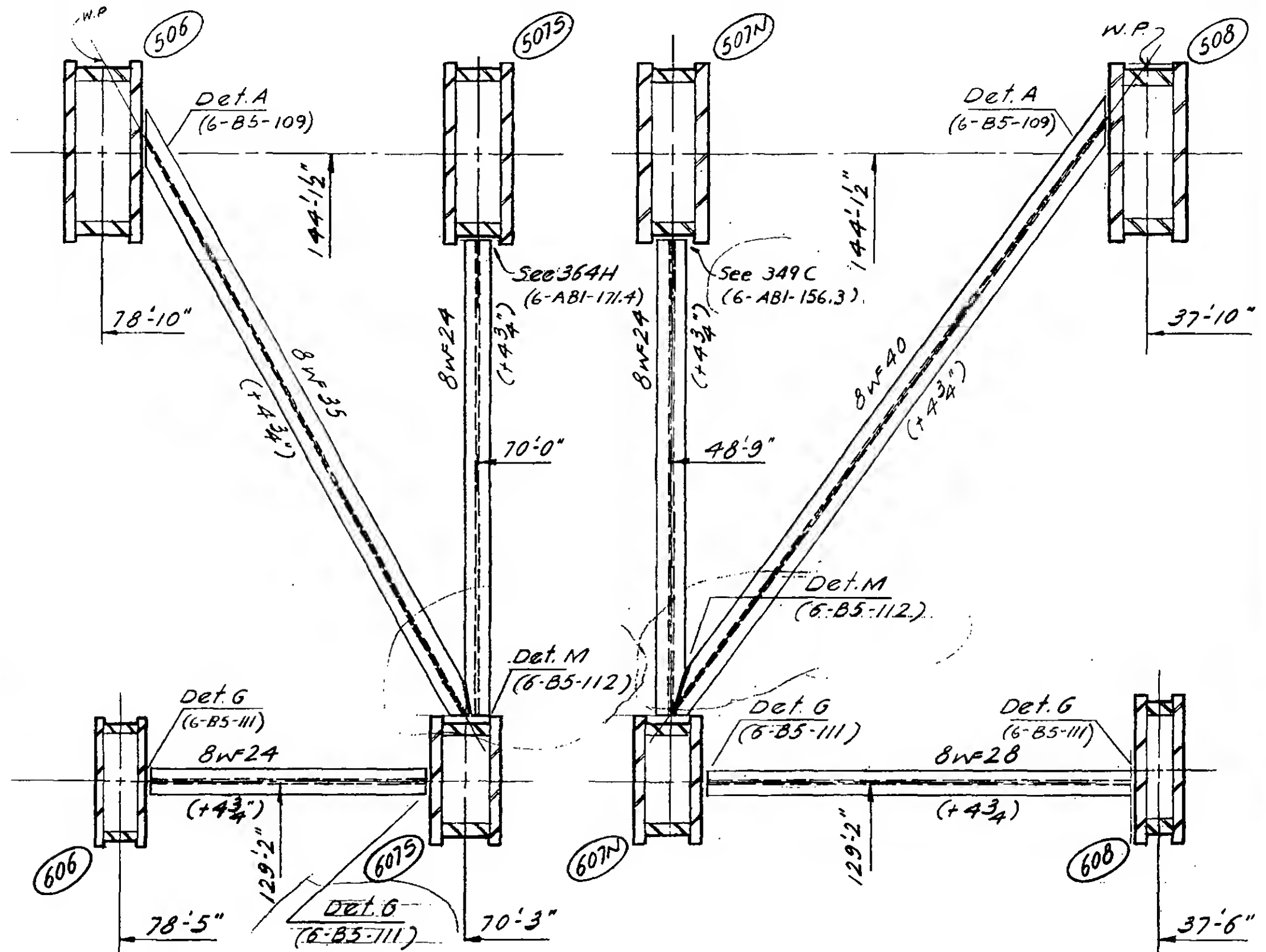
PROJECT THE WORLD TRADE CENTER

TITLE TEMPORARY COLUMN BRACING EL. 274'

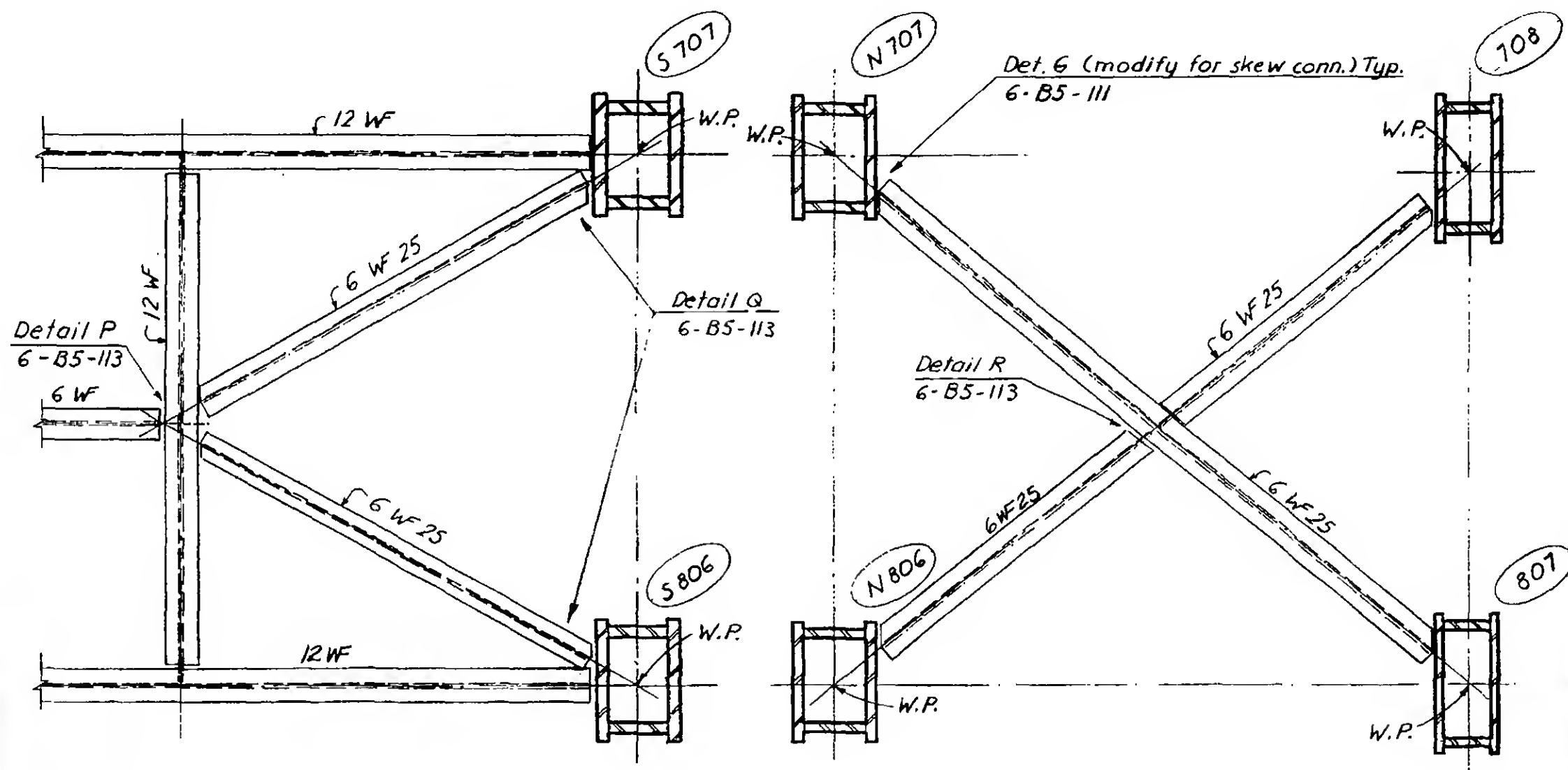
DATE 2-9-68

REVISIONS

3-11-68

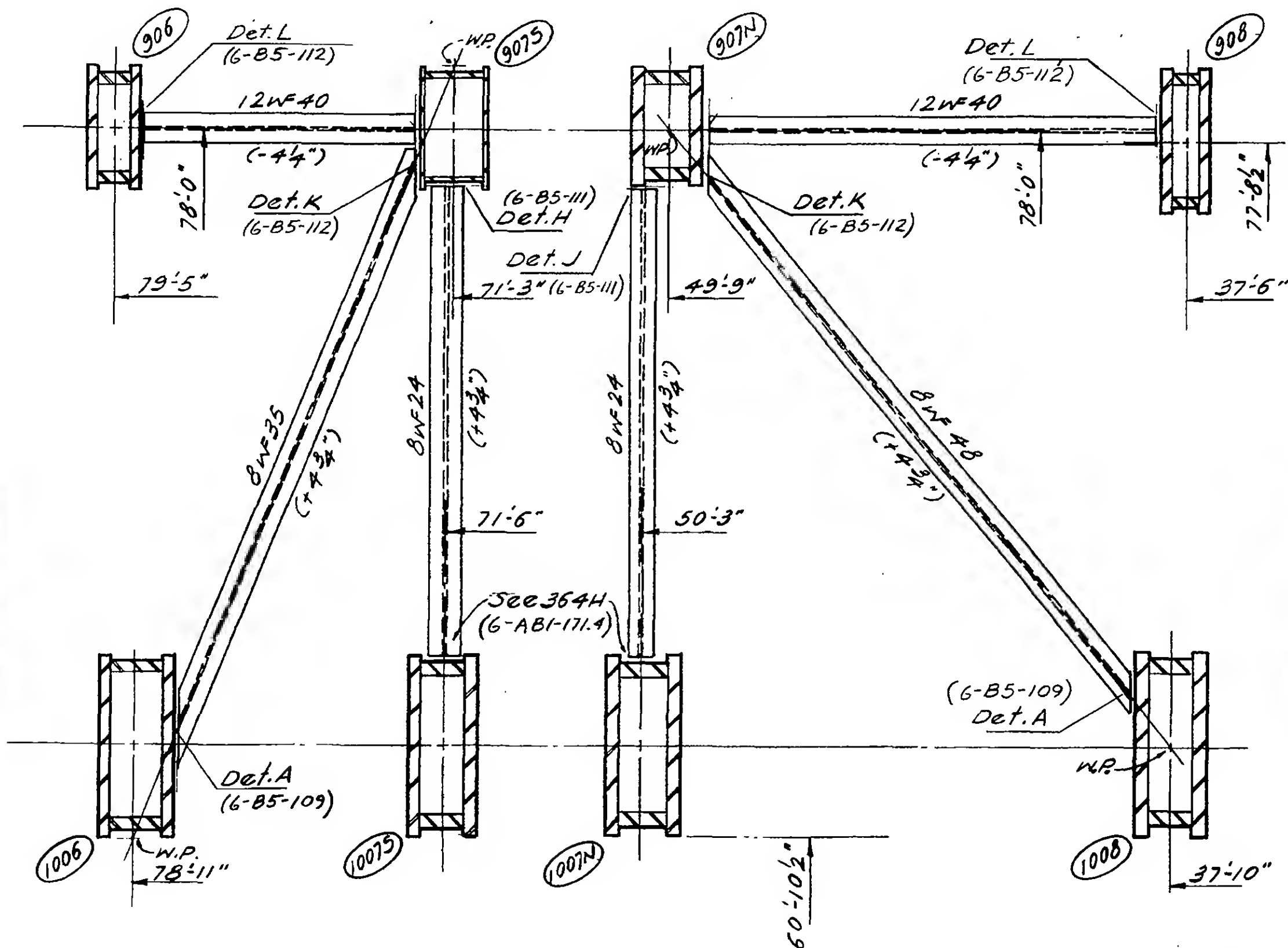


REVISIONS

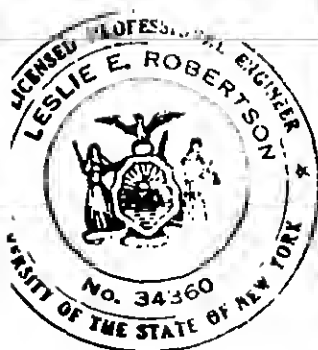


6-B5-105.1

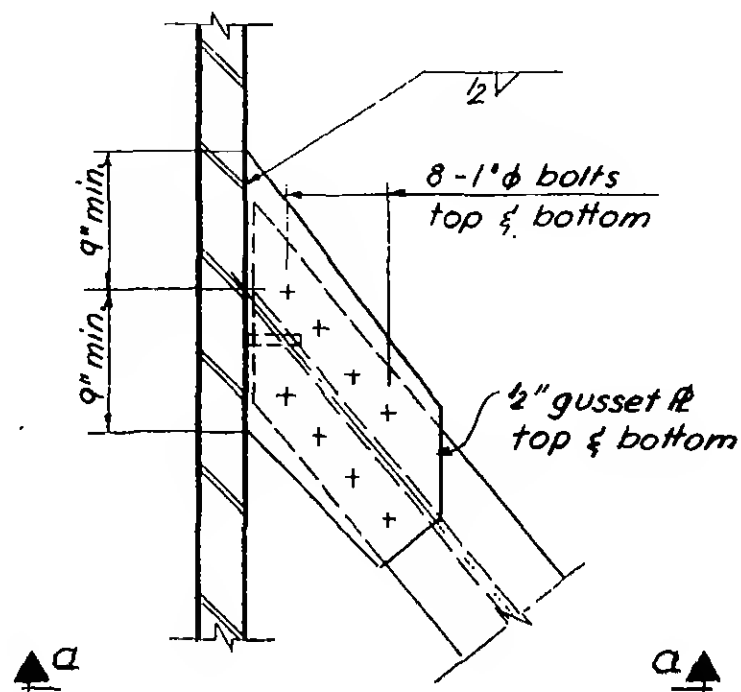
REVISIONS



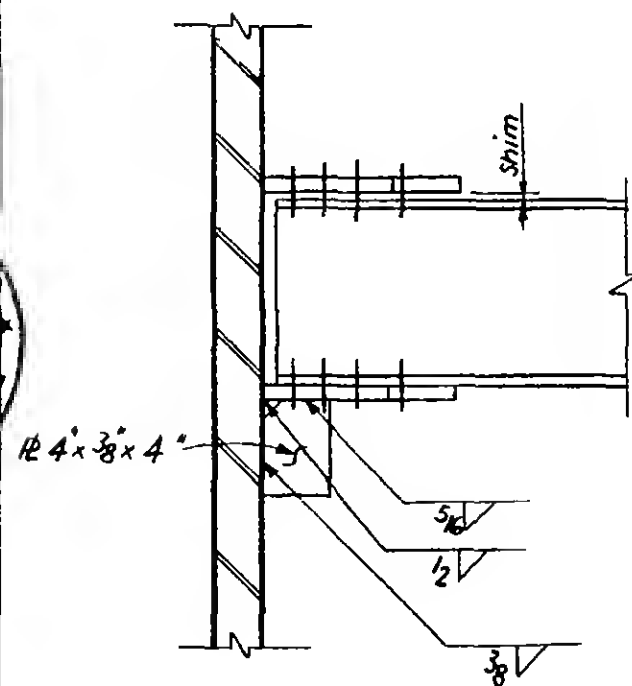
6- B5-106



REVISIONS

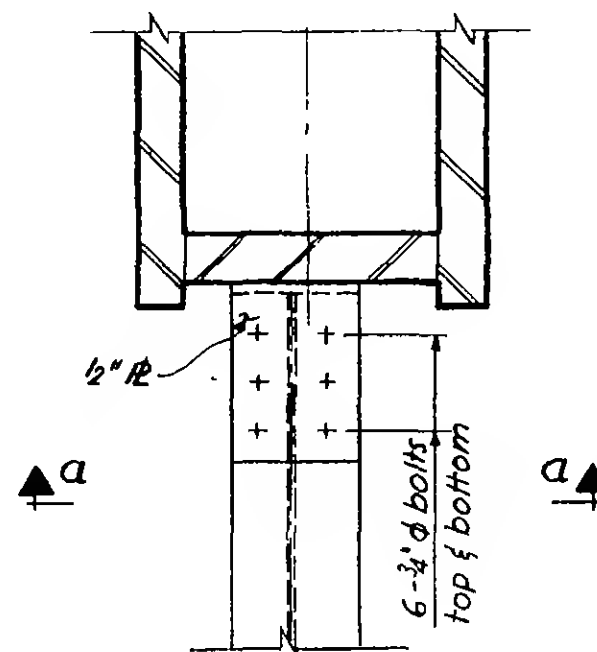


Plan

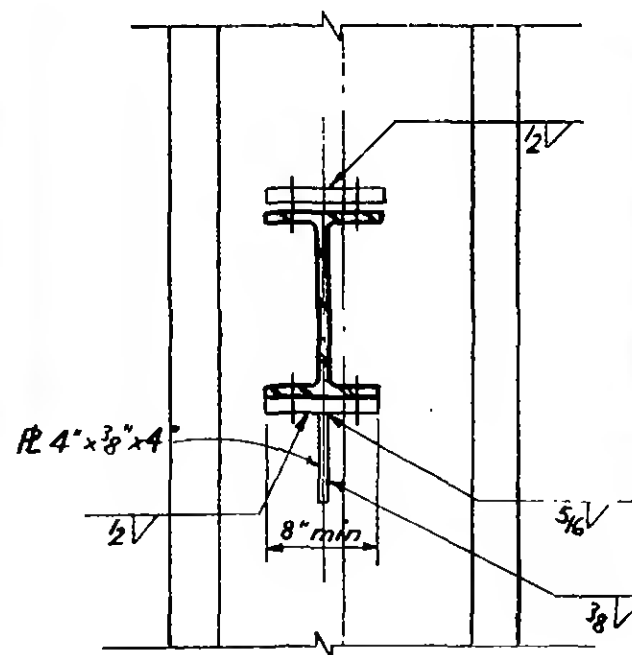


Section a-a

Detail A

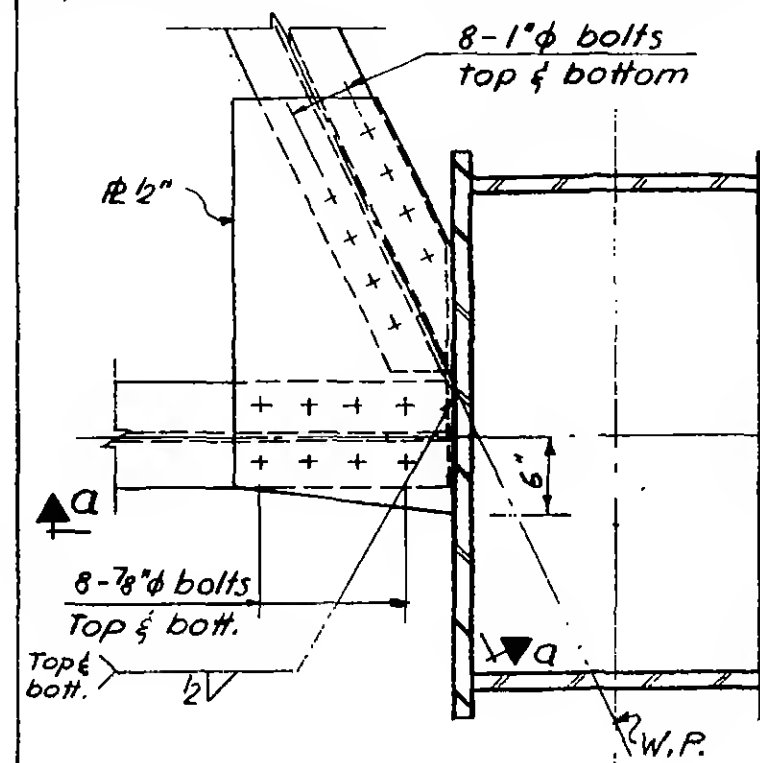


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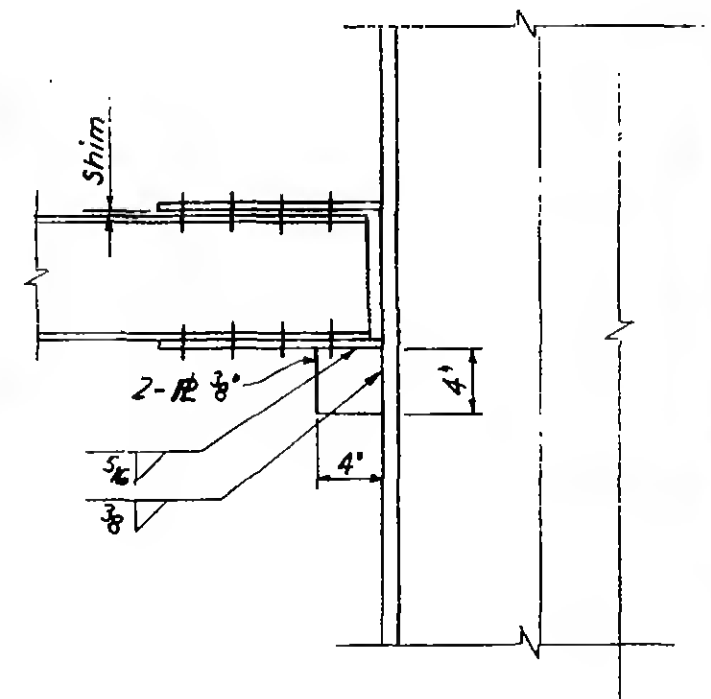


Section a-a

Detail B



Plan



Section a-a

Detail C



PROJECT

THE WORLD TRADE CENTER

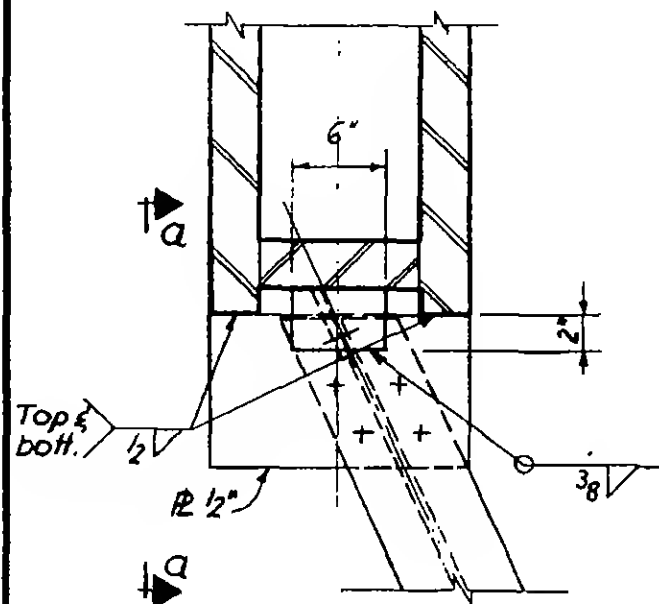
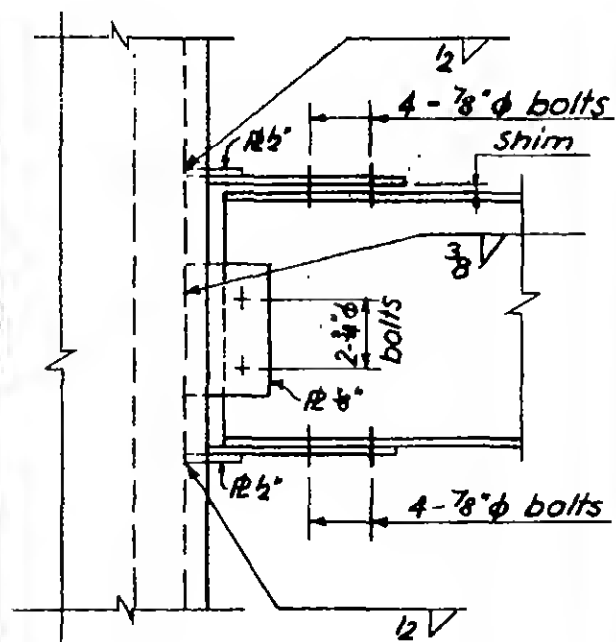
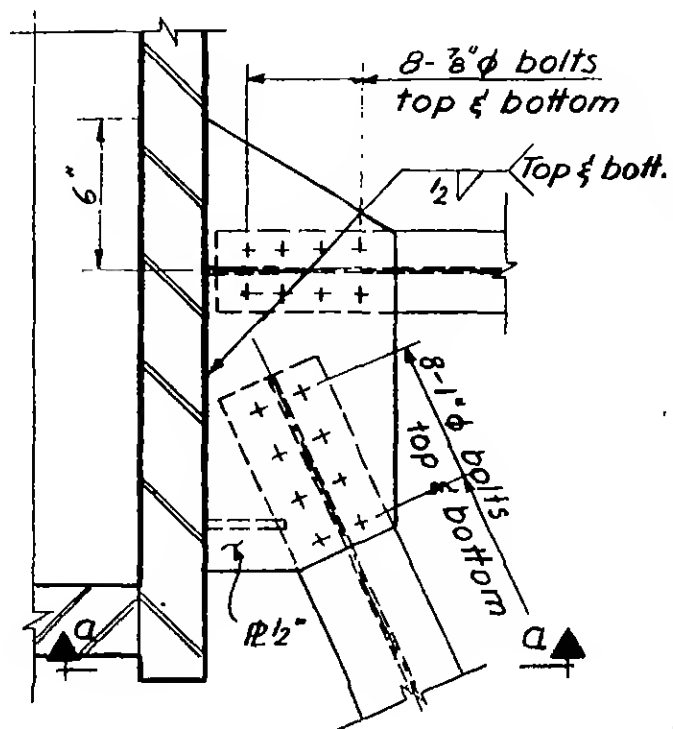
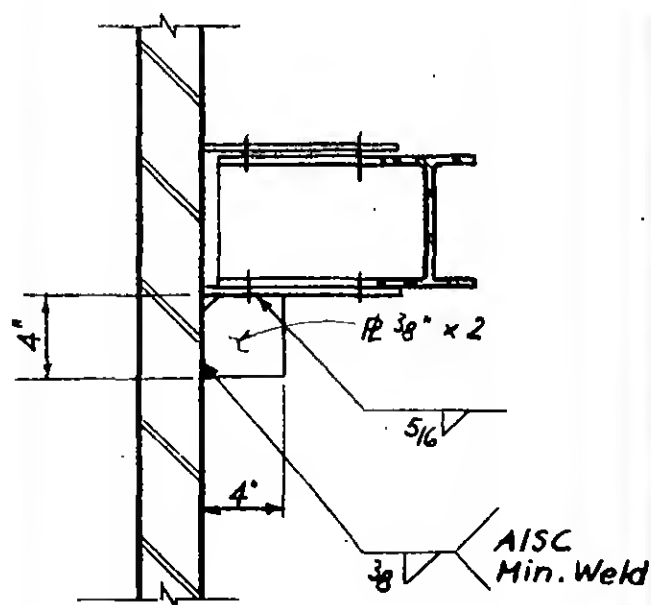
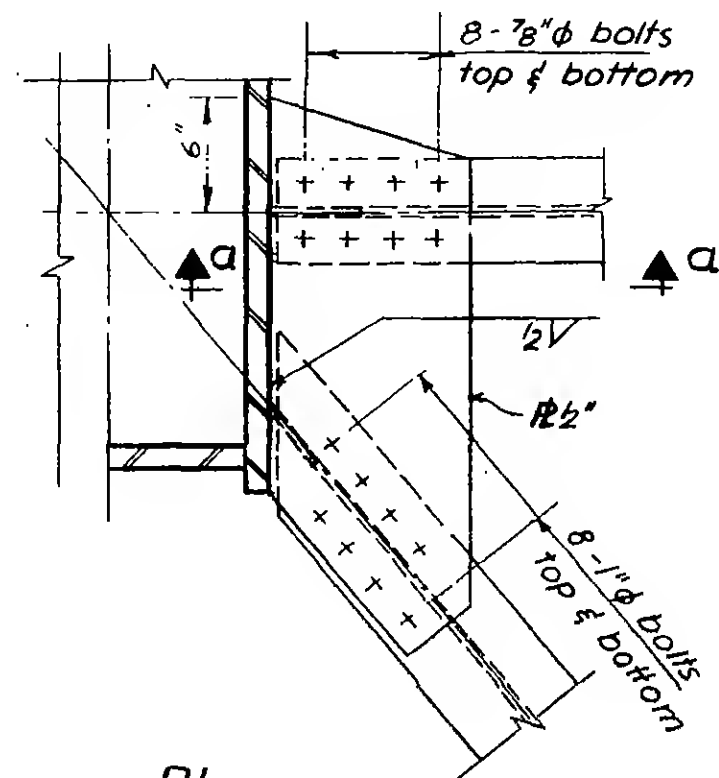
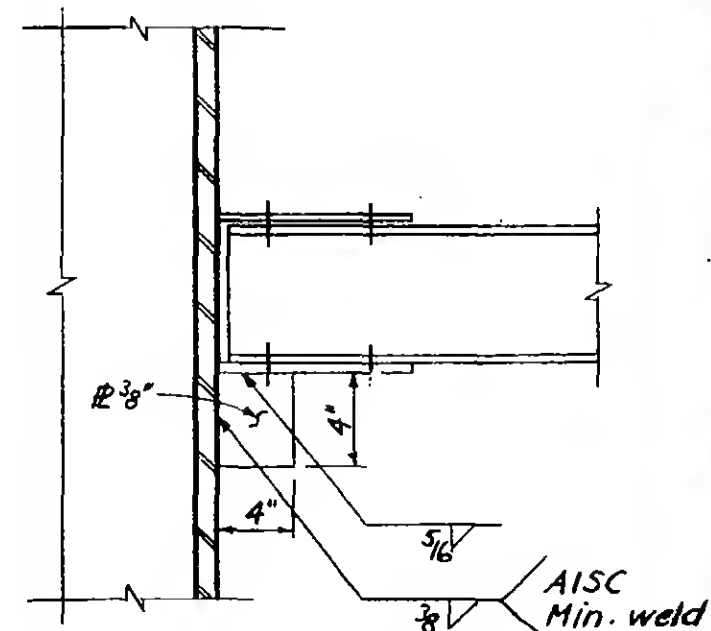
TITLE

TEMPORARY BRACING DETAILS D, E & F

DATE

2-9-68

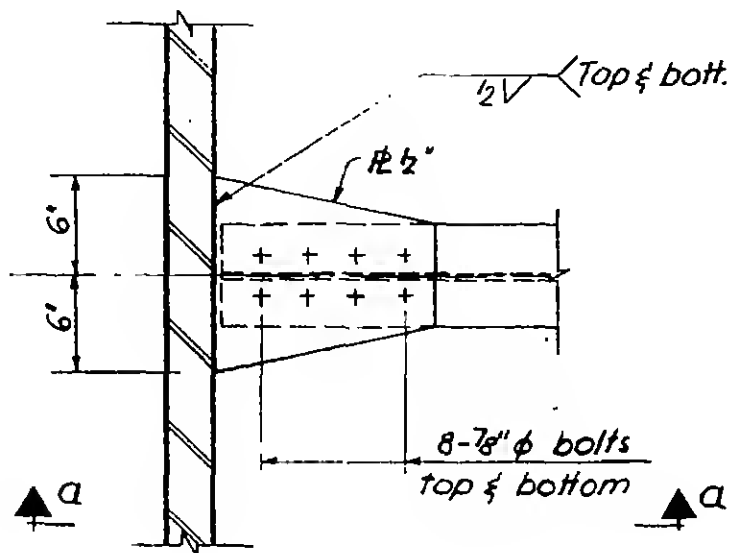
REVISIONS

PlanSection a-aDetail DPlanSection a-aDetail EPlanSection a-aDetail F

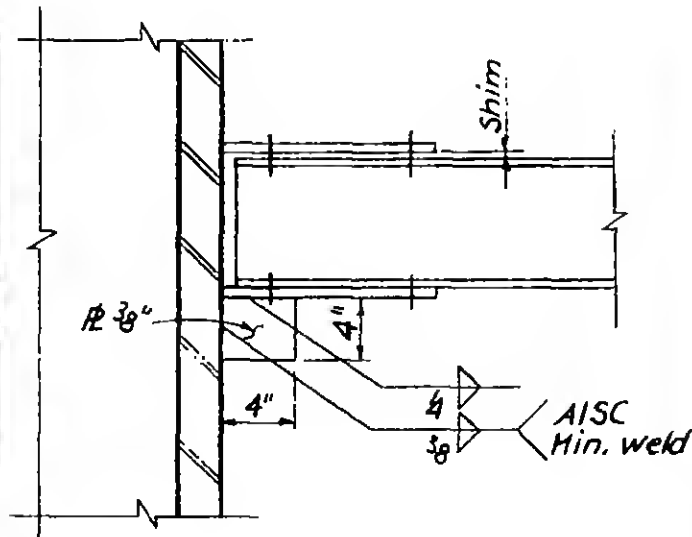
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REVISIONS

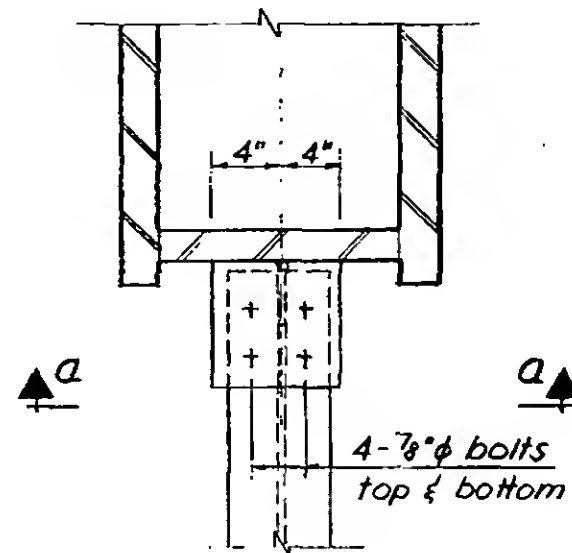


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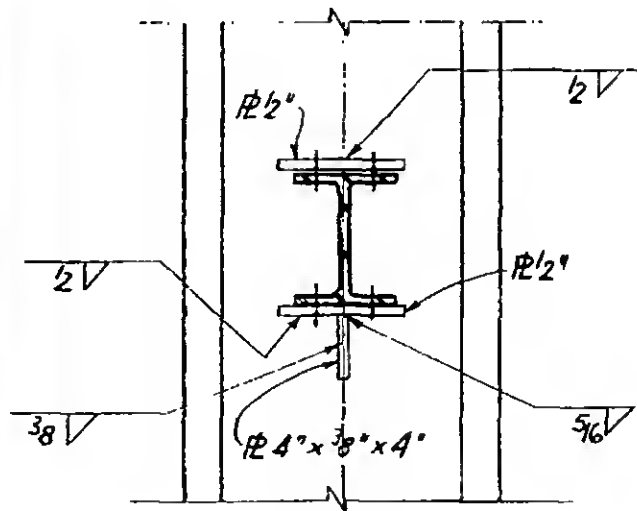


Section a-a

Detail G

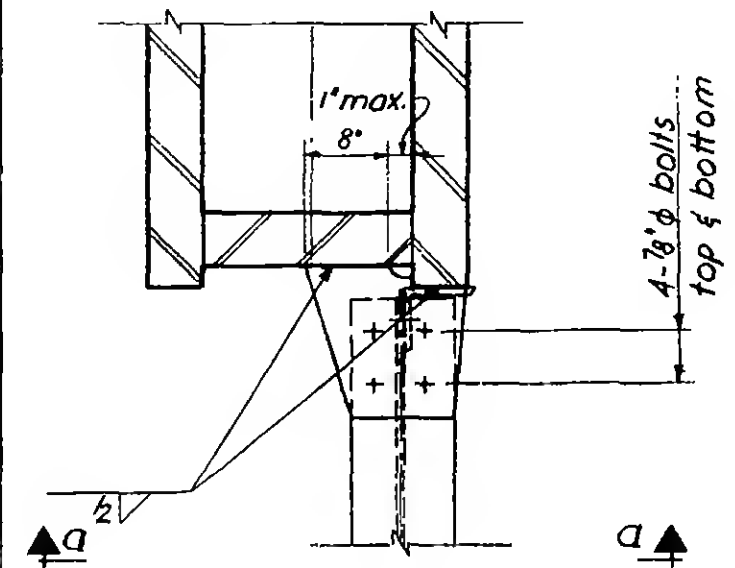


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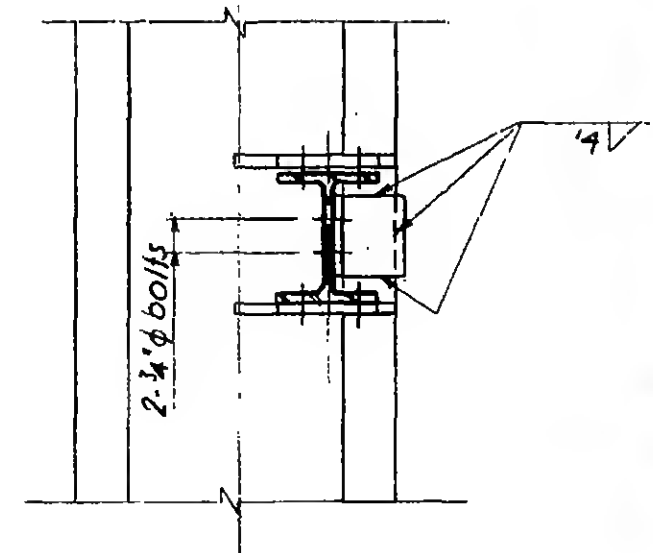


Section a-a

Detail H



Plan



Section a-a

Detail J



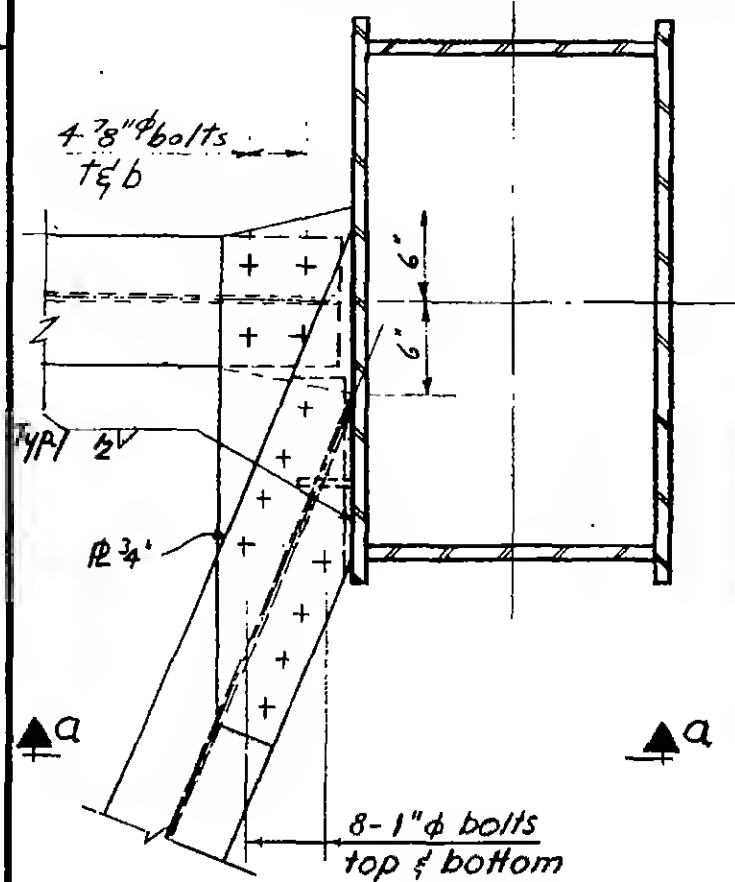
PROJECT THE WORLD TRADE CENTER

TITLE TEMPORARY BRACING DETAILS K, L, M

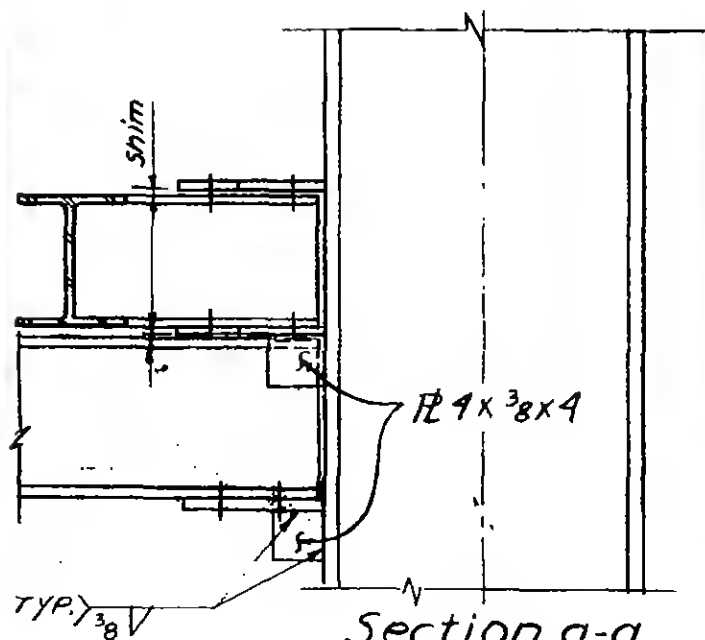
DATE 2-9-68

REVISIONS

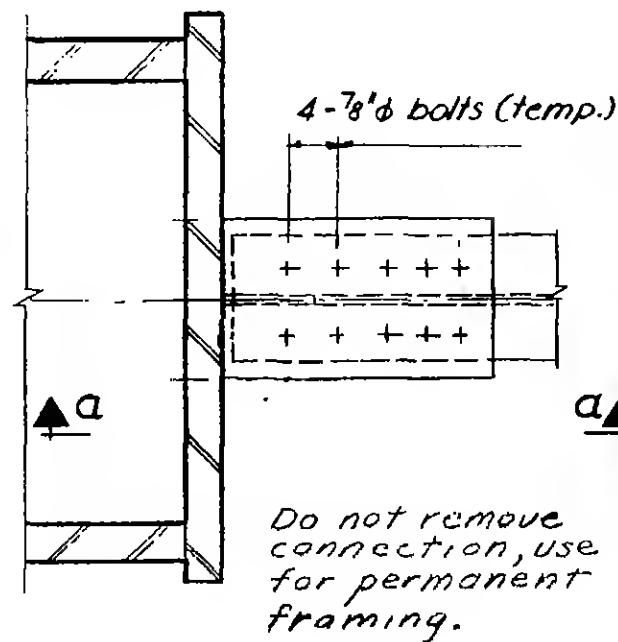
3-11-68



Plan

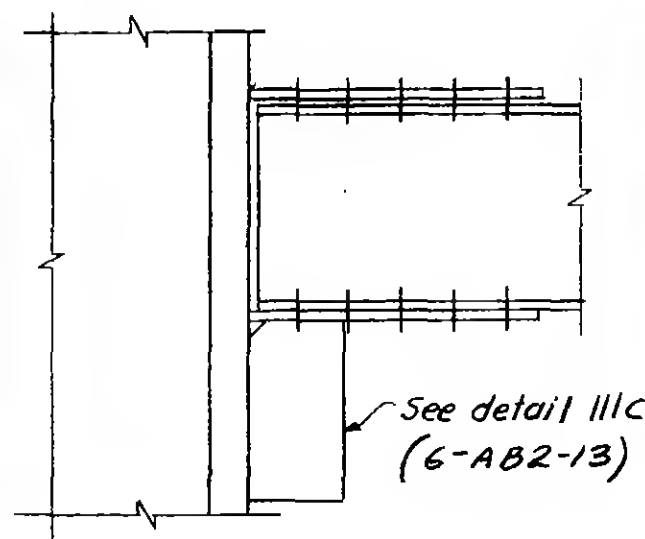


Detail K

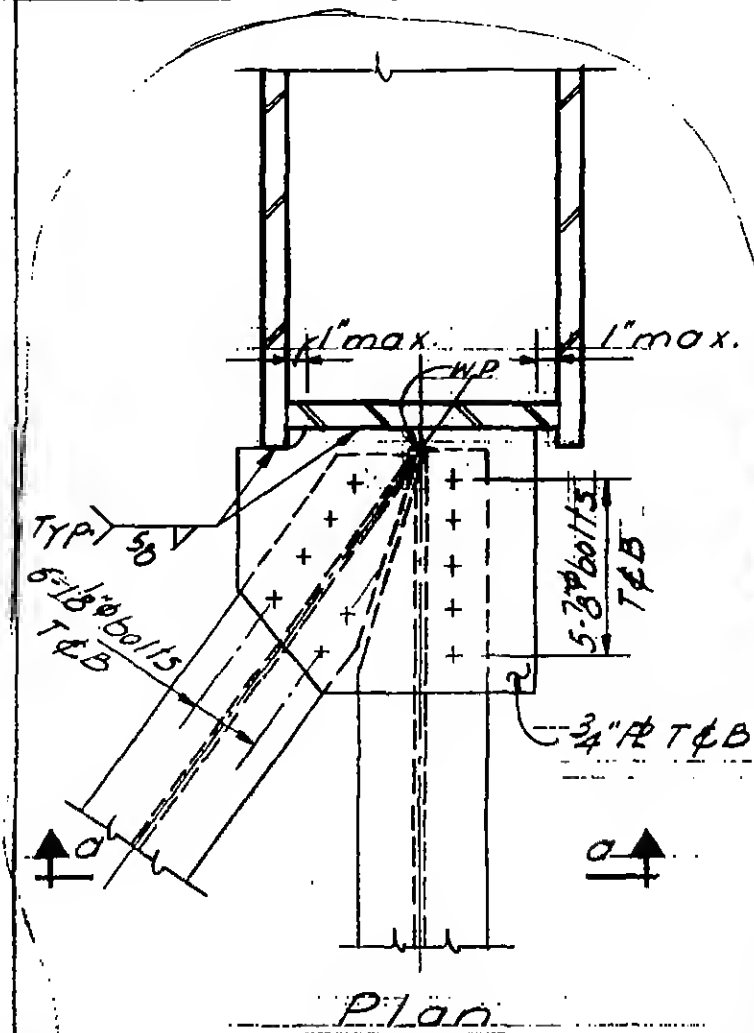


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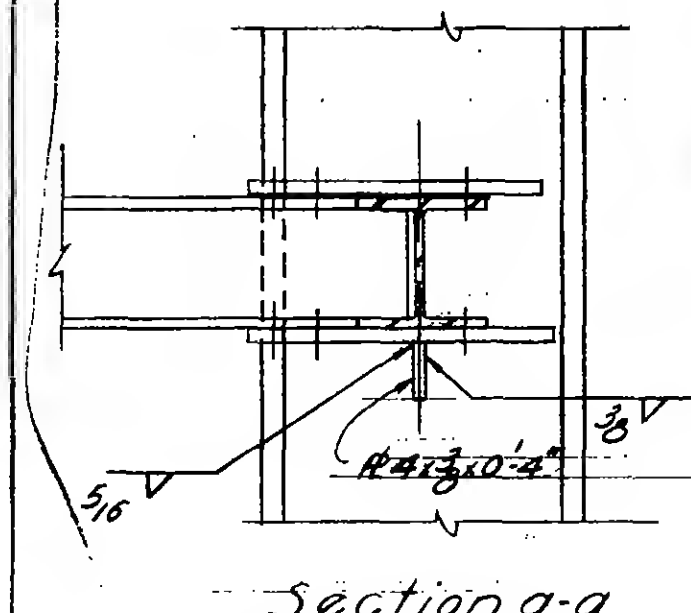
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Detail L



Plan

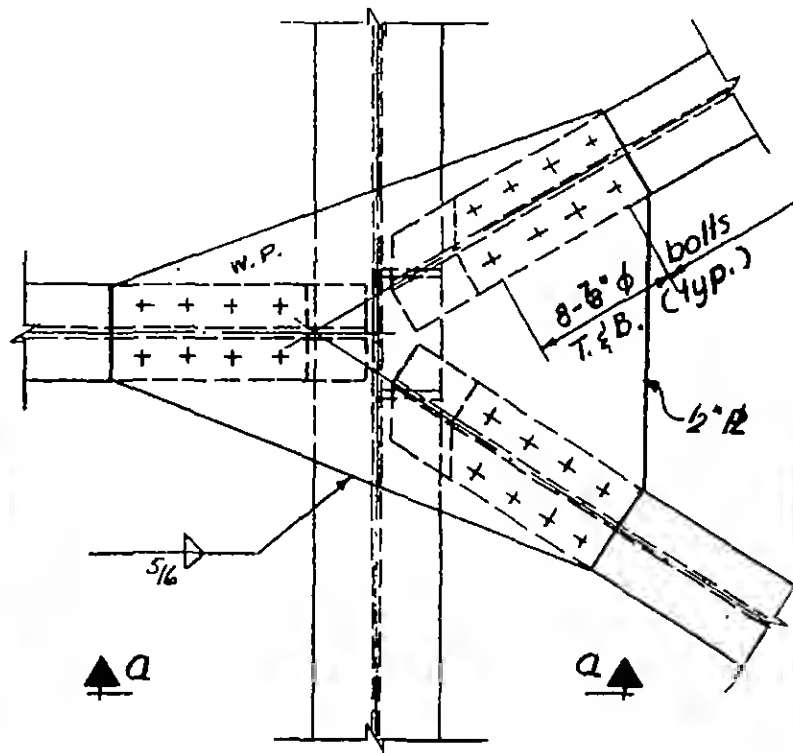
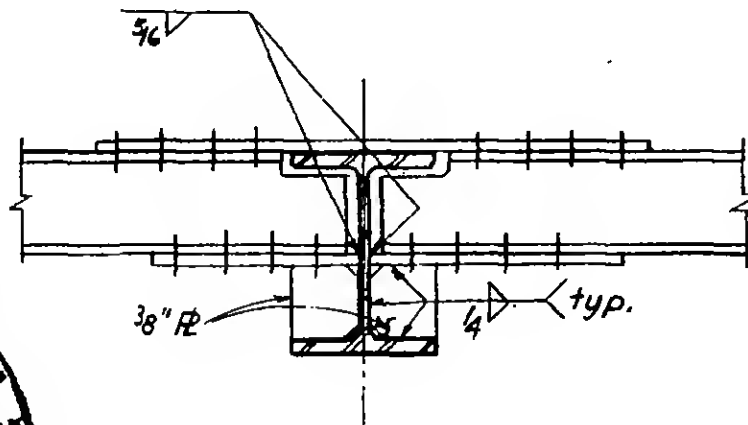
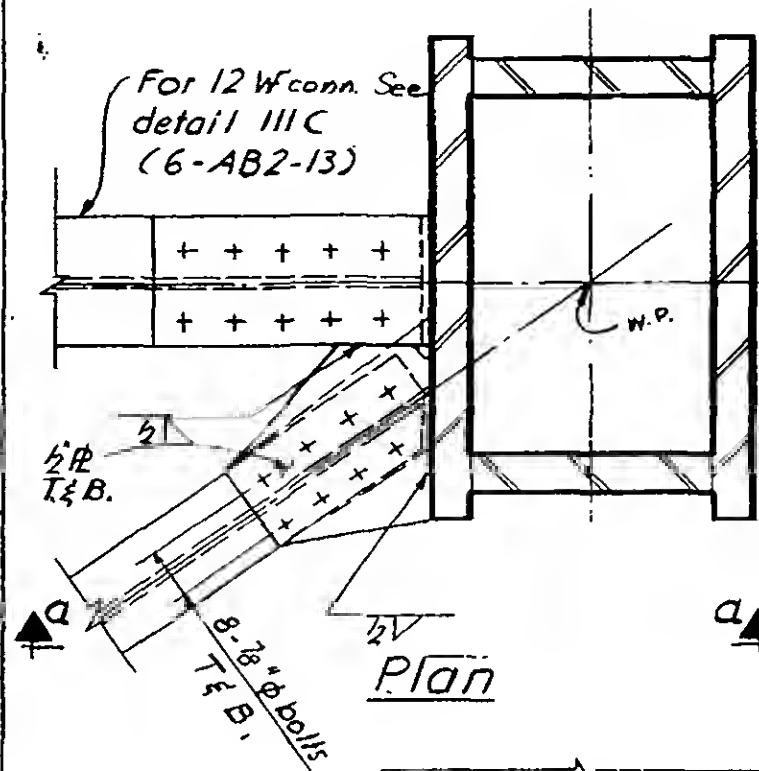
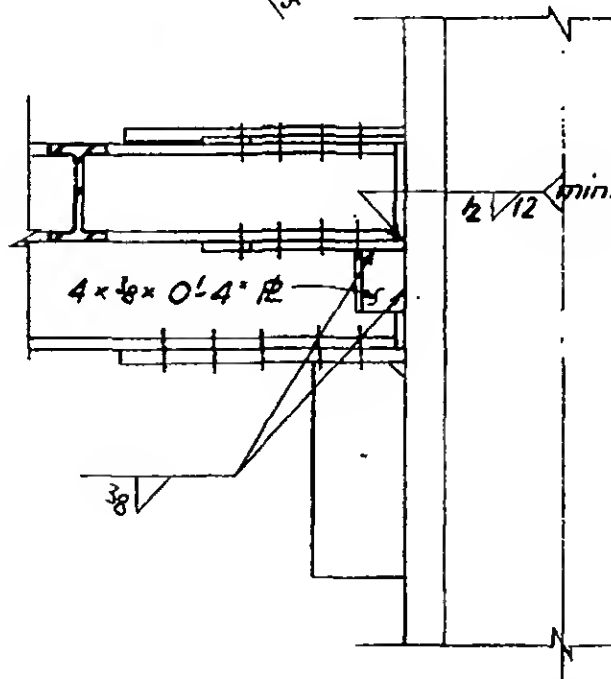
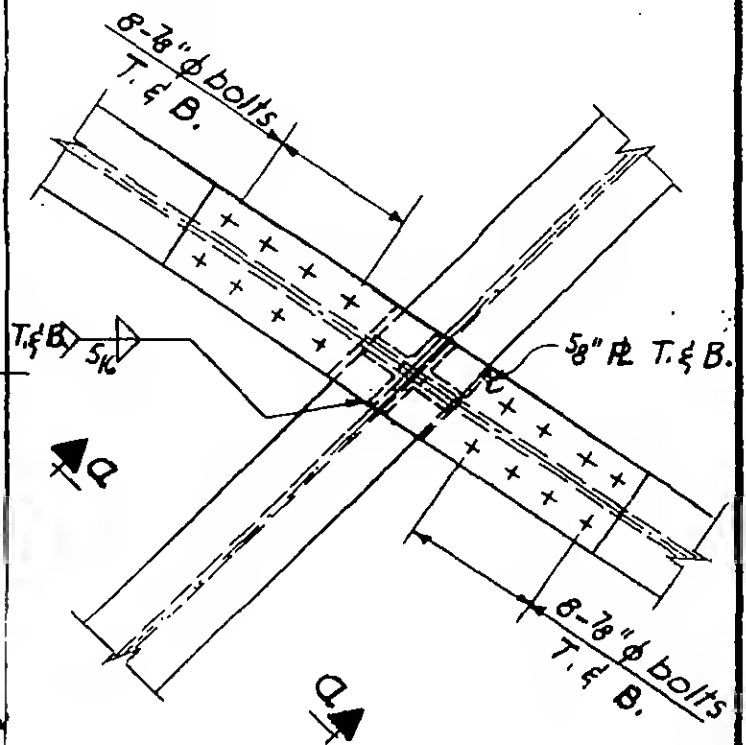
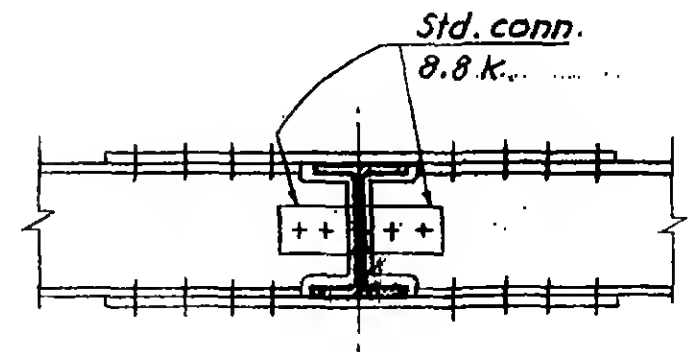


Detail M

6-B5-112



REVISIONS

PlanSection a-aDetail PPlanSection a-aDetail QPlanSection a-aDetail R

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

INTERIOR COLUMNS TO FLOOR 1

DATE

4/ 1/69

REVISIONS

Printed 5-1-69

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6-A6-	3	SCHEDULE TOWER A
6-A6-	4	SCHEDULE TOWER A
6-B6-	5	SCHEDULE TOWER B
6-B6-	6	SCHEDULE TOWER B
6-B6-	6	SCHEDULE TOWER B
6-B6-	7	SCHEDULE TOWER B
6-B6-	8	SCHEDULE TOWER B



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT	THE WORLD TRADE CENTER	TITLE	INTERIOR COLUMNS TO FLOOR 1	DATE	6/12/67
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REVISIONS

COL. NO	UPR SPL STR	LWR SPL STR	COL. TYPE	B (IN)	D (IN)	SHAPE	PLATE 1		PLATE 2		PLATE 3		FY	LOWER SPLICE DET. NO.
							T1	W1	T2	W2	T3	W3		
500A	1	274	112	-	-	14WF 43	-	-	-	-	-	-	36	101J
500A	274	242	112	-	-	14WF 87	-	-	-	-	-	-	36	602A
509A	1	274	112	-	-	14WF 43	-	-	-	-	-	-	36	101J
509A	274	242	112	-	-	14WF 95	-	-	-	-	-	-	36	602A
1000A	1	274	112	-	-	14WF 43	-	-	-	-	-	-	36	101J
1000A	274	242	112	-	-	14WF 95	-	-	-	-	-	-	36	602A
1009A	1	274	112	-	-	14WF 48	-	-	-	-	-	-	36	101J
1009A	274	242	112	-	-	14WF103	-	-	-	-	-	-	36	602A
1100A	1	274	112	-	-	14WF 48	-	-	-	-	-	-	36	101J
1100A	274	242	112	-	-	14WF103	-	-	-	-	-	-	36	602A
1101A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1101A	274	242	112	-	-	14WF136	-	-	-	-	-	-	36	602A
1102A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1102A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1103A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1103A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

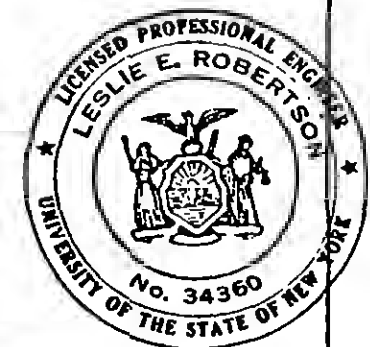
INTERIOR COLUMNS TO FLOOR 1

DATE

6/12/67

REVISIONS

COL. NO	UPR LWR		COL. TYPE	B (IN)	O (IN)	SHAPE	PLATE 1		PLATE 2		PLATE 3		FY	LOWER SPLICE DET. NO.
	SPL STR	SPL STR					T1	W1	T2	W2	T3	W3		
1104A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1104A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1105A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1105A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1106A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1106A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1107A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1107A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1108A	1	274	112	-	-	14WF 78	-	-	-	-	-	-	36	101H
1108A	274	242	112	-	-	14WF150	-	-	-	-	-	-	36	602A
1109A	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
1109A	274	242	112	-	-	14WF119	-	-	-	-	-	-	36	602A
1200A	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
1200A	274	242	112	-	-	14WF119	-	-	-	-	-	-	36	602A
1201A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1201A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT	THE WORLD TRADE CENTER	TITLE	INTERIOR COLUMNS TO FLOOR 1	DATE	6/12/67
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REVISIONS

COL.NO	UPR SPL STR	LWR SPL STR	COL. TYPE	B(IN)	D(IN)	SHAPE	PLATE 1 T1	W1	PLATE 2 T2	W2	PLATE 3 T3	W3	FY	LOWER SPLICE DET.NO
1202A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1202A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1203A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1203A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1204A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1204A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1205A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1205A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1206A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1206A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1207A	1	274	112	-	-	14WF 68	-	-	-	-	-	-	36	101H
1207A	274	242	112	-	-	14WF142	-	-	-	-	-	-	36	602A
1208A	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
1208A	274	242	112	-	-	14WF119	-	-	-	-	-	-	36	602A
1209A	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
1209A	274	242	112	-	-	14WF136	-	-	-	-	-	-	36	602A



WORTHINGTON, SKILLING, HELLE & JACKSON

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PROJECT

THE WORLD TRADE CENTER

TITLE

INTERIOR COLUMNS TO FLOOR 1

DATE

2/12/68

REVISIONS

COL. NO	UPR LWR		COL. TYPE	B (IN)	D (IN)	SHAPE	PLATE 1		PLATE 2		PLATE 3		FY	LOWER SPLICE DET. NO
	SPL STR	SPL STR					T1	W1	T2	W2	T3	W3		
5008	1	274	112	-	-	14WF 53	-	-	-	-	-	-	36	101J
5008	274	242	112	-	-	14WF 87	-	-	-	-	-	-	36	602A
5098	1	274	112	-	-	14WF 53	-	-	-	-	-	-	36	101J
5098	274	242	112	-	-	14WF 87	-	-	-	-	-	-	36	602A
10008	1	274	112	-	-	14WF 53	-	-	-	-	-	-	36	101J
10008	274	243	112	-	-	14WF 87	-	-	-	-	-	-	36	602B
1100B	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
1100B	274	242	112	-	-	14WF103	-	-	-	-	-	-	36	602A
1101B	1	274	112	-	-	14WF 74	-	-	-	-	-	-	36	101H
1101B	274	242	112	-	-	14WF127	-	-	-	-	-	-	36	602A
1102B	1	274	112	-	-	14WF 78	-	-	-	-	-	-	36	101H
1102B	274	242	112	-	-	14WF136	-	-	-	-	-	-	36	602A
1103B	1	274	112	-	-	14WF 78	-	-	-	-	-	-	36	101H
1103B	274	242	112	-	-	14WF136	-	-	-	-	-	-	36	602A
1104B	1	274	112	-	-	14WF 78	-	-	-	-	-	-	36	101H
1104B	274	242	112	-	-	14WF136	-	-	-	-	-	-	36	602A



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

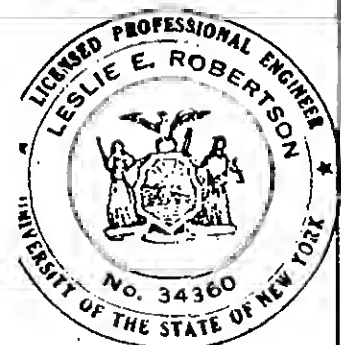
INTERIOR COLUMNS TO FLOOR 1

DATE

2/12/68

REVISIONS

COL. NO	UPR LWR SPL SPL		COL. TYPE	B (IN)	D (IN)	SHAPE	PLATE 1		PLATE 2		PLATE 3		FY	LOWER SPLIC DET. NO
	STR	STR					T1	W1	T2	W2	T3	W3		
1105B	1	274	112	-	-	14WF 78	-	-	-	-	-	-	36	101H
1105B	274	242	112	-	-	14WF136	-	-	-	-	-	-	36	602A
1106B	1	274	112	-	-	14WF 87	-	-	-	-	-	-	36	101H
1106B	274	242	112	-	-	14WF167	-	-	-	-	-	-	36	602A
1107B	1	274	112	-	-	14WF 84	-	-	-	-	-	-	36	101H
1107B	274	242	112	-	-	14WF158	-	-	-	-	-	-	36	602A
1108B	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
1108B	274	242	112	-	-	14WF103	-	-	-	-	-	-	36	602A
1109B	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
1109B	274	242	112	-	-	14WF103	-	-	-	-	-	-	36	602A
1200B	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
1200B	274	243	112	-	-	14WF 87	-	-	-	-	-	-	36	602B
1201B	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
1201B	274	243	112	-	-	14WF111	-	-	-	-	-	-	36	602B
1202B	1	274	112	-	-	14WF 78	-	-	-	-	-	-	36	101H
1202B	274	243	112	-	-	14WF158	-	-	-	-	-	-	36	602B



WORTHINGTON, SKILLING, HELLE & JACKSON

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PROJECT

THE WORLD TRADE CENTER

TITLE

INTERIOR COLUMNS TO FLOOR 1

DATE

2/12/68

REVISIONS

COL. NO	UPR LWR		COL. TYPE	B (IN)	D (IN)	SHAPE	PLATE 1		PLATE 2		PLATE 3		FY	LOWER SPLICE DET. NO.
	SPL STR	SPL STR					T1	W1	T2	W2	T3	W3		
12038	1	274	112	-	-	14WF 78	-	-	-	-	-	-	36	101H
12038	274	(243)	112	-	-	14WF158	-	-	-	-	-	-	36	602B
12048	1	274	112	-	-	14WF 78	-	-	-	-	-	-	36	101H
12048	274	(243)	112	-	-	14WF158	-	-	-	-	-	-	36	602B
12058	1	274	112	-	-	14WF 95	-	-	-	-	-	-	36	101H
12058	274	(243)	112	-	-	14WF167	-	-	-	-	-	-	36	602B
12068	1	274	112	-	-	14WF119	-	-	-	-	-	-	36	101H
12068	274	(243)	112	-	-	14WF246	-	-	-	-	-	-	36	602B
12078	1	274	112	-	-	14WF119	-	-	-	-	-	-	36	101H*
12078	274	(243)	112	-	-	14WF314	-	-	-	-	-	-	36	602B
12088	1	274	112	-	-	14WF 74	-	-	-	-	-	-	36	101H
12088	274	(243)	112	-	-	14WF111	-	-	-	-	-	-	36	602B
13008	1	274	112	-	-	14WF 61	-	-	-	-	-	-	36	101H
13008	274	(243)	112	-	-	14WF 87	-	-	-	-	-	-	36	602B
13018	1	274	112	-	-	12WF 65	-	-	-	-	-	-	36	101H
13018	274	(243)	112	-	-	12WF 99	-	-	-	-	-	-	36	602B

* SPLICE, 4'-6" ABOVE REFERENCE FLOOR



WORTHINGTON, SKILLING, HELLE & JACKSON

Civil & Structural Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

INTERIOR COLUMNS TO FLOOR 1

DATE

2-11-68

REVISIONS

3-11-68

COL. NO	UPR SPL STR	LWR SPL STR	COL. TYPE	B (IN)	D (IN)	SHAPE	PLATE 1		PLATE 2		PLATE 3		FY	LOWER SPLIC DET. NO
							T1	W1	T2	W2	T3	W3		
13088	1	284	112	-	-	14WF95	-	-	-	-	-	-	36	101H
13088	284	264	112	-	-	14WF228	-	-	-	-	-	-	36	102A
1808B	264	243	112	-	-	14WF228	-	-	-	-	-	-	36	602B
14058	284	274	112	-	-	14WF 84	-	-	-	-	-	-	36	101H
14058	274	243	112	-	-	14WF150	-	-	-	-	-	-	36	602B
14068	1	274	112	-	-	14WF 84	-	-	-	-	-	-	36	101H
14068	274	264	112	-	-	14WF150	-	-	-	-	-	-	36	216A
14068	264	243	216	-	-	12WF 36	1-3/16	16	-	-	-	-	36	602B
14078	1	284	112	-	-	14WF 84	-	-	-	-	-	-	36	101H
14078	284	243	112	-	-	14WF193	-	-	-	-	-	-	36	602B
14088	1	274	112	-	-	14WF 95	-	-	-	-	-	-	36	101H
14088	274	243	112	-	-	14WF193	-	-	-	-	-	-	36	602B



SKILLING, HELLE, CHRISTIANSEN, ROBERTSON**Structural & Civil Engineers****PROJECT**

THE WORLD TRADE CENTER

TITLE

DRAWING BOOK 6 - BEAM CONNECTIONS AND MISC. DETAILS

DATE

4/ 1/69

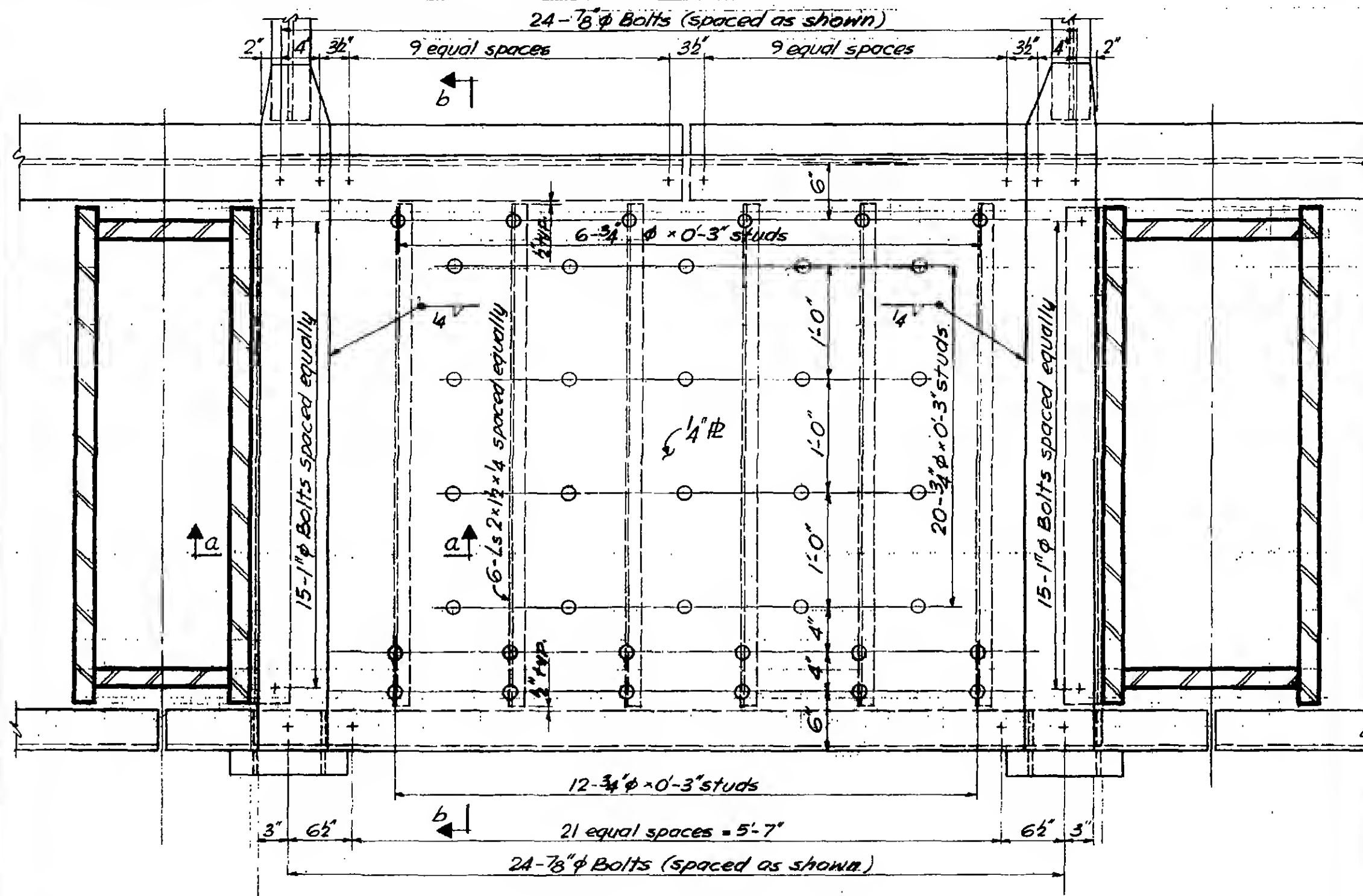
REVISIONS

Printed 5-1-69

6-AB7-2 SHEAR PLATE DET.
6-AB7-2.1 SHEAR PLATE DET.
6-AB7-2.2 SHEAR PLATE DET.
6-AB7-2.3 SHEAR PLATE DET.
6-AB7-2.4 SHEAR PLATE DET.
6-AB7-2.5 SHEAR PLATE DET.
6-AB7-2.6 SHEAR PLATE DET.
6-AB7-2.7 SHEAR PLATE DET.
6-AB7-2.8 SHEAR PLATE DET.
6-AB7-2.9 SHEAR PLATE DET.
6-AB7-2.10 SHEAR PLATE DET.
6-AB7-2.11 SHEAR PLATE DET.
6-AB7-3 SHEAR PLATE DET.
6-AB7-4 SHEAR PLATE DET.
6-AB7-5 SHEAR PLATE DET.
6-AB7-5.1 SHEAR PLATE DET.
6-AB7-5.2 SHEAR PLATE DET.
6-AB7-6 SHEAR PLATE DET.
6-AB7-7 SHEAR PLATE DET.
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6-AB7-9 SHEAR PLATE DET.



REVISIONS



6-AB7-2

PROJECT

THE WORLD TRADE CENTER

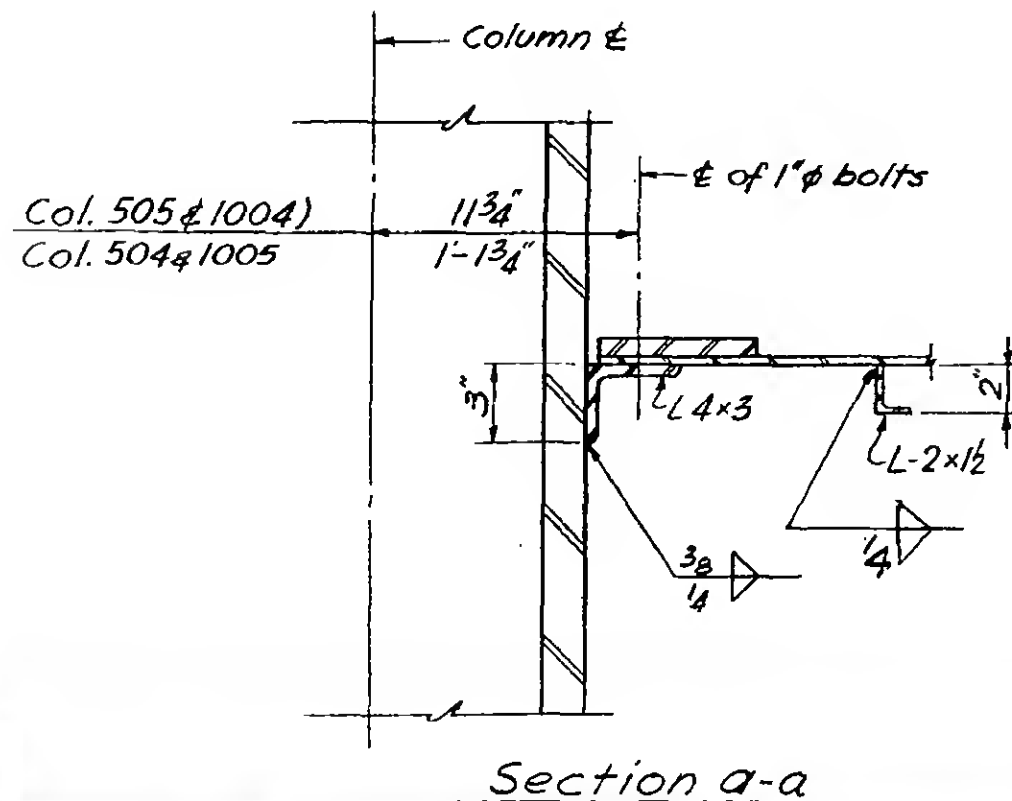
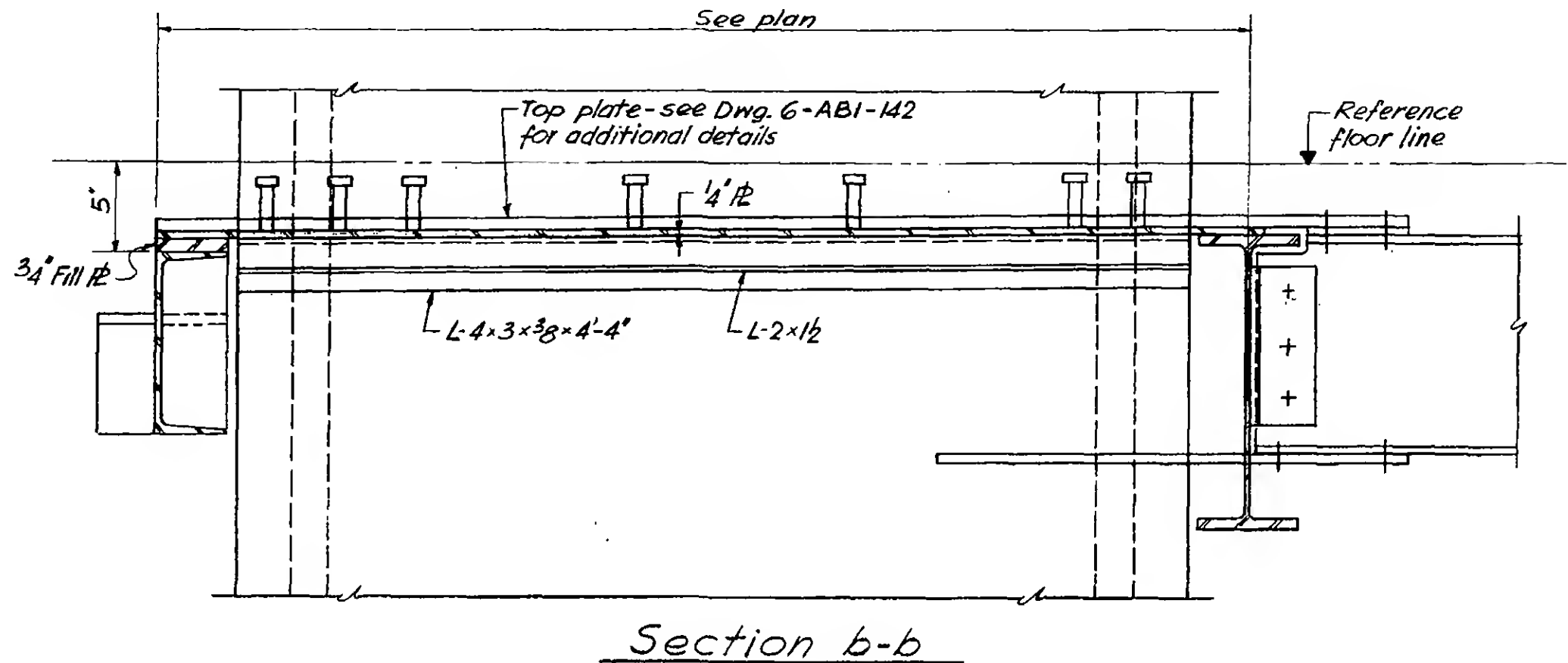
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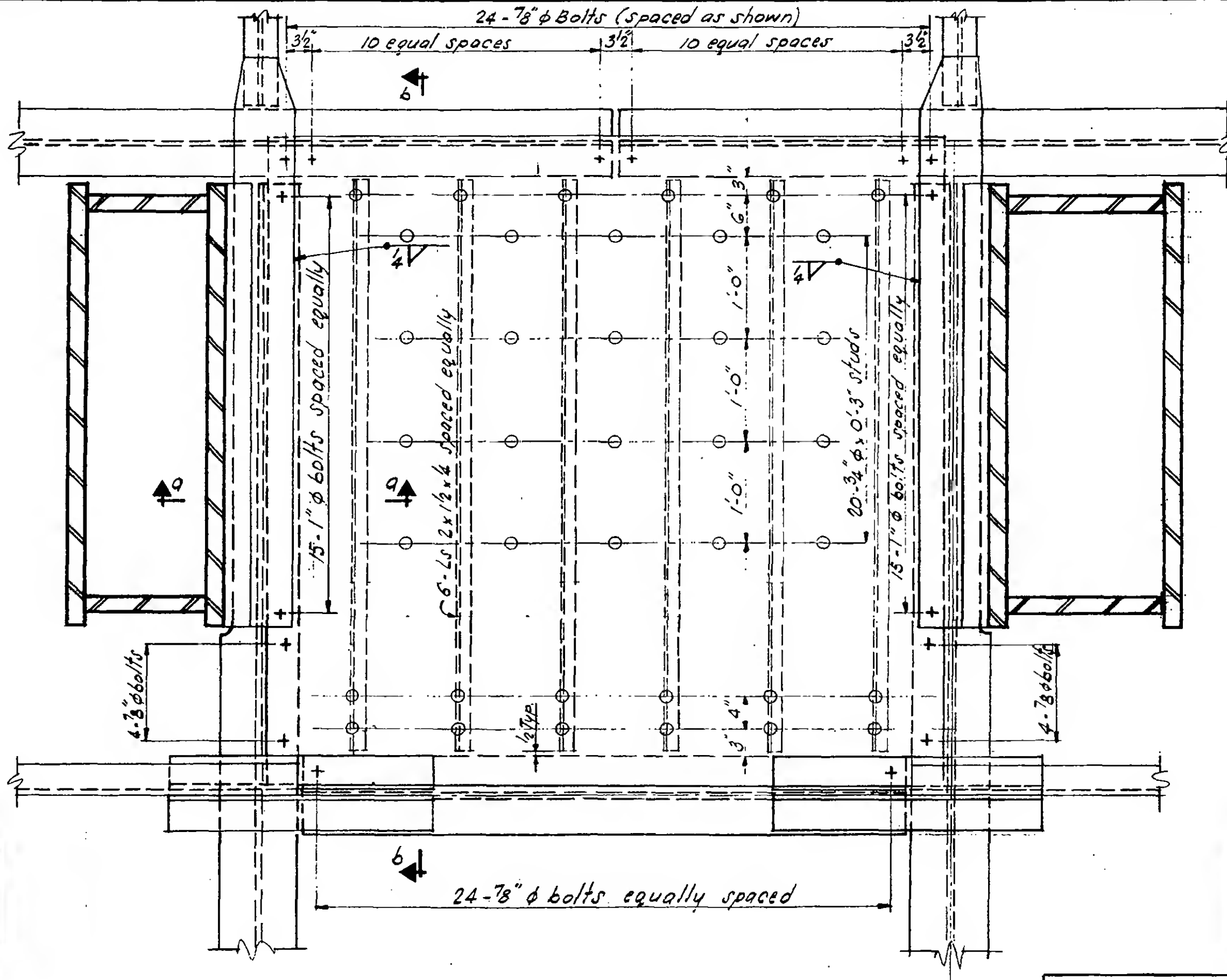
DATE

8-5-67

REVISIONS



EVISIONS

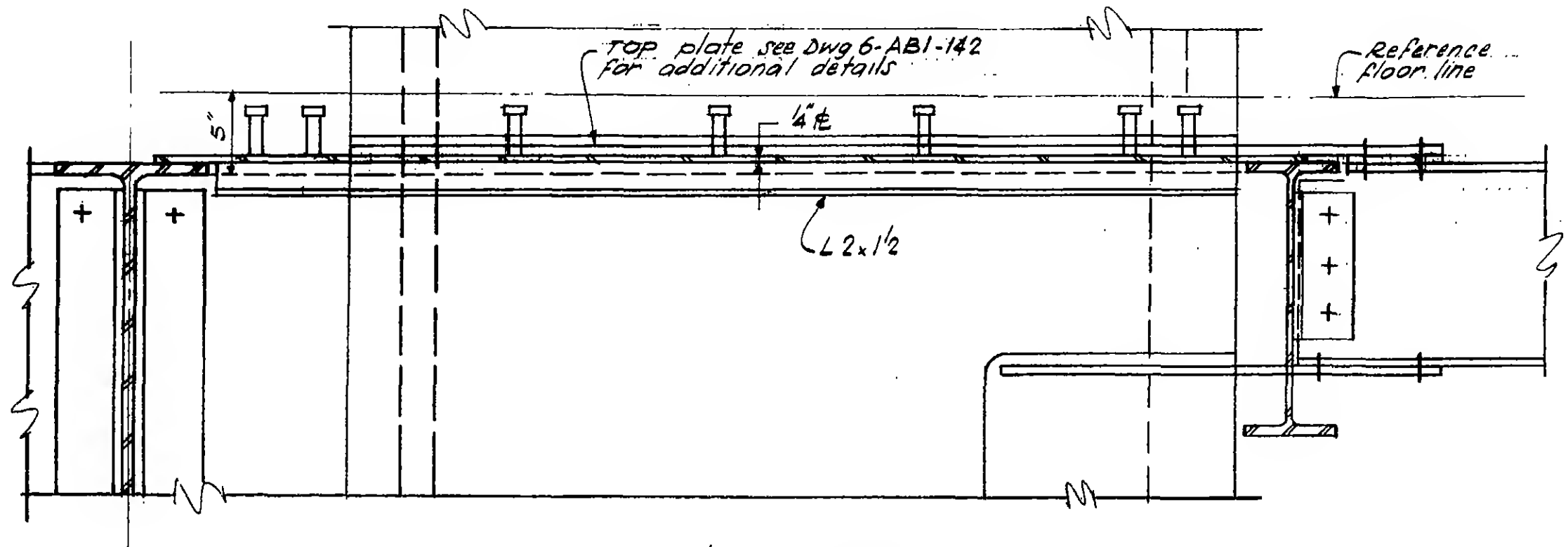
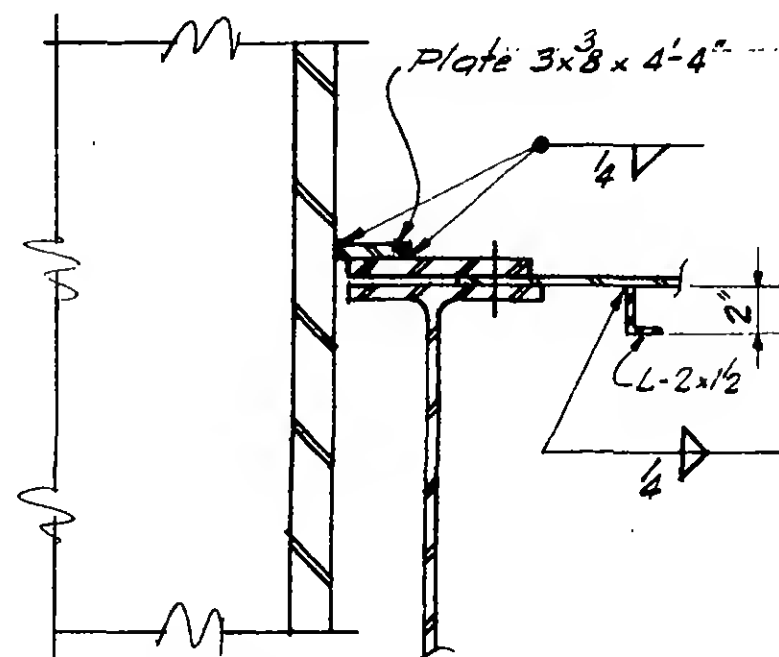


PROJECT THE WORLD TRADE CENTER

TITLE SHEAR PLATE DETAIL

DATE 9-15-67

REVISIONS

Section b-bSection a-a

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

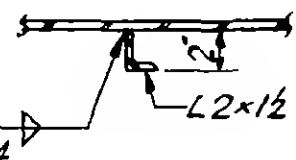
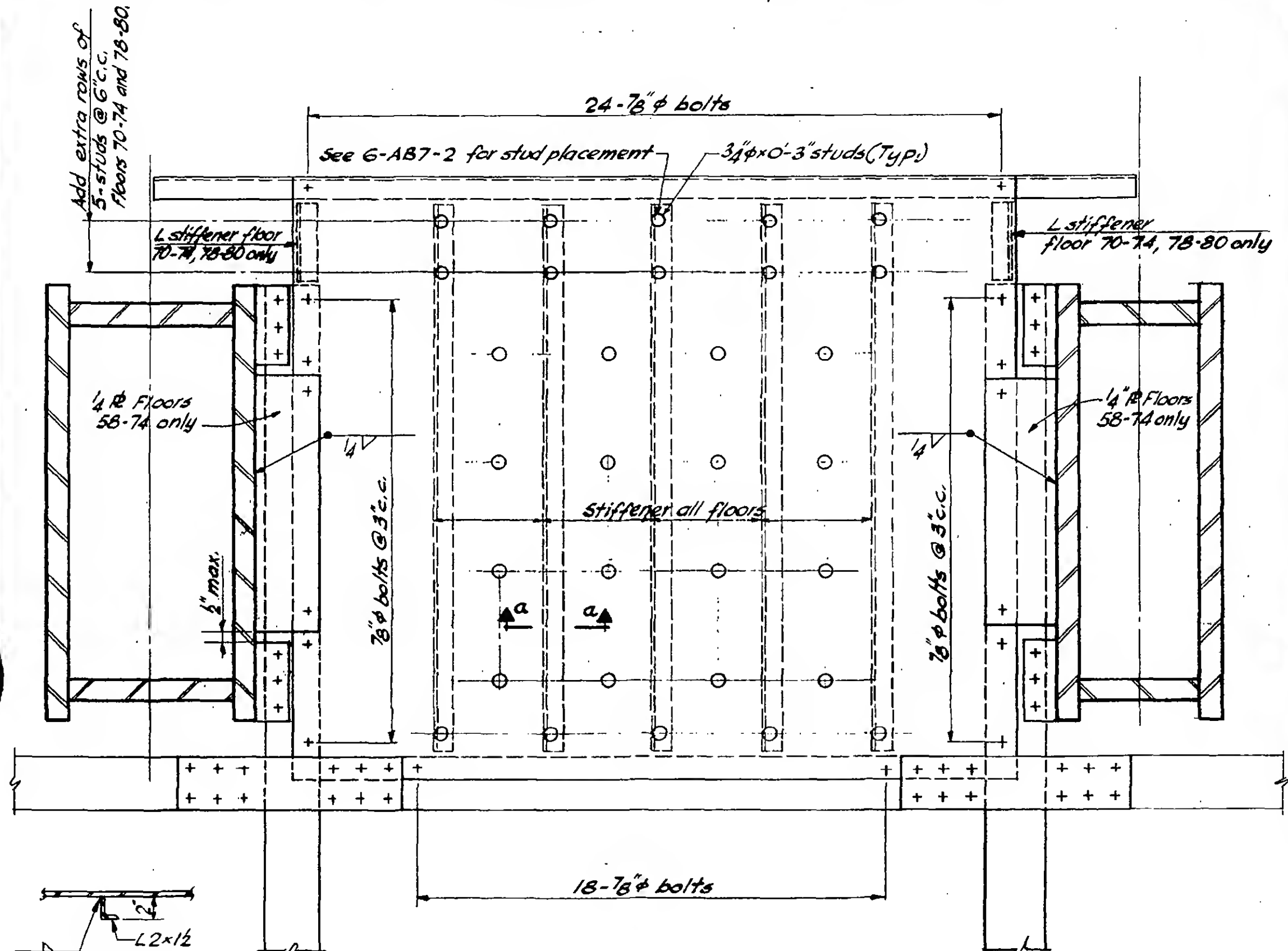
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SHEAR PLATE DETAIL FLOORS 58-74, 78-80

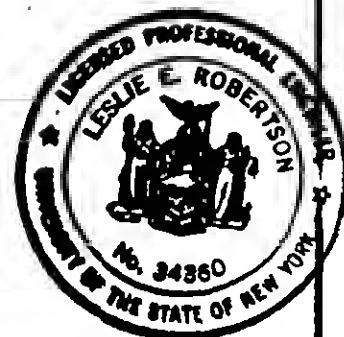
DATE 9-27-68

VISIONS



Section a-a

6-AB7-2.4



DESIGNED

DRAWN

REVIEWED

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

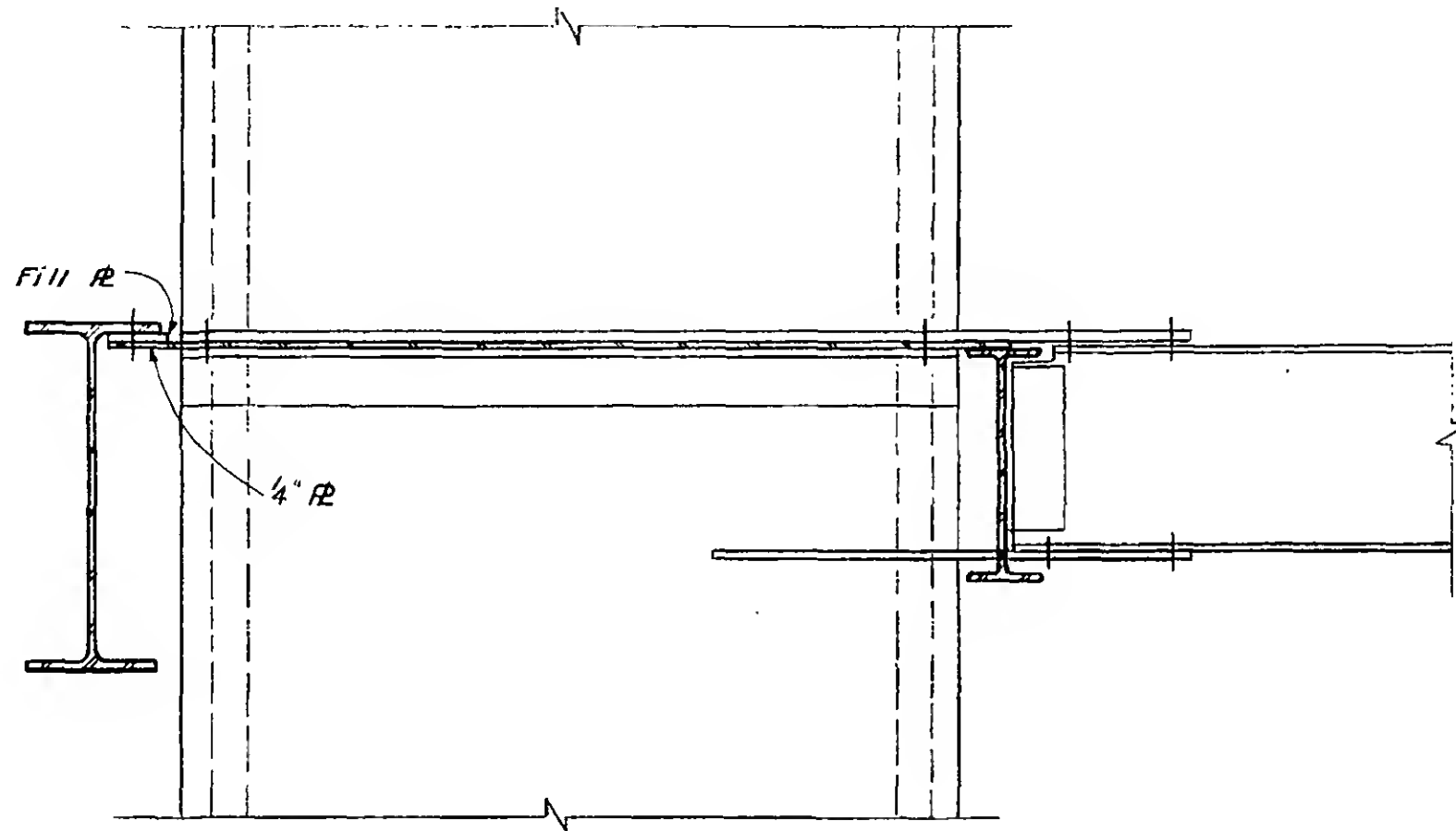
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SHEAR PLATE DETAIL 7th FLOOR

DATE 11/29/67

REVISIONS

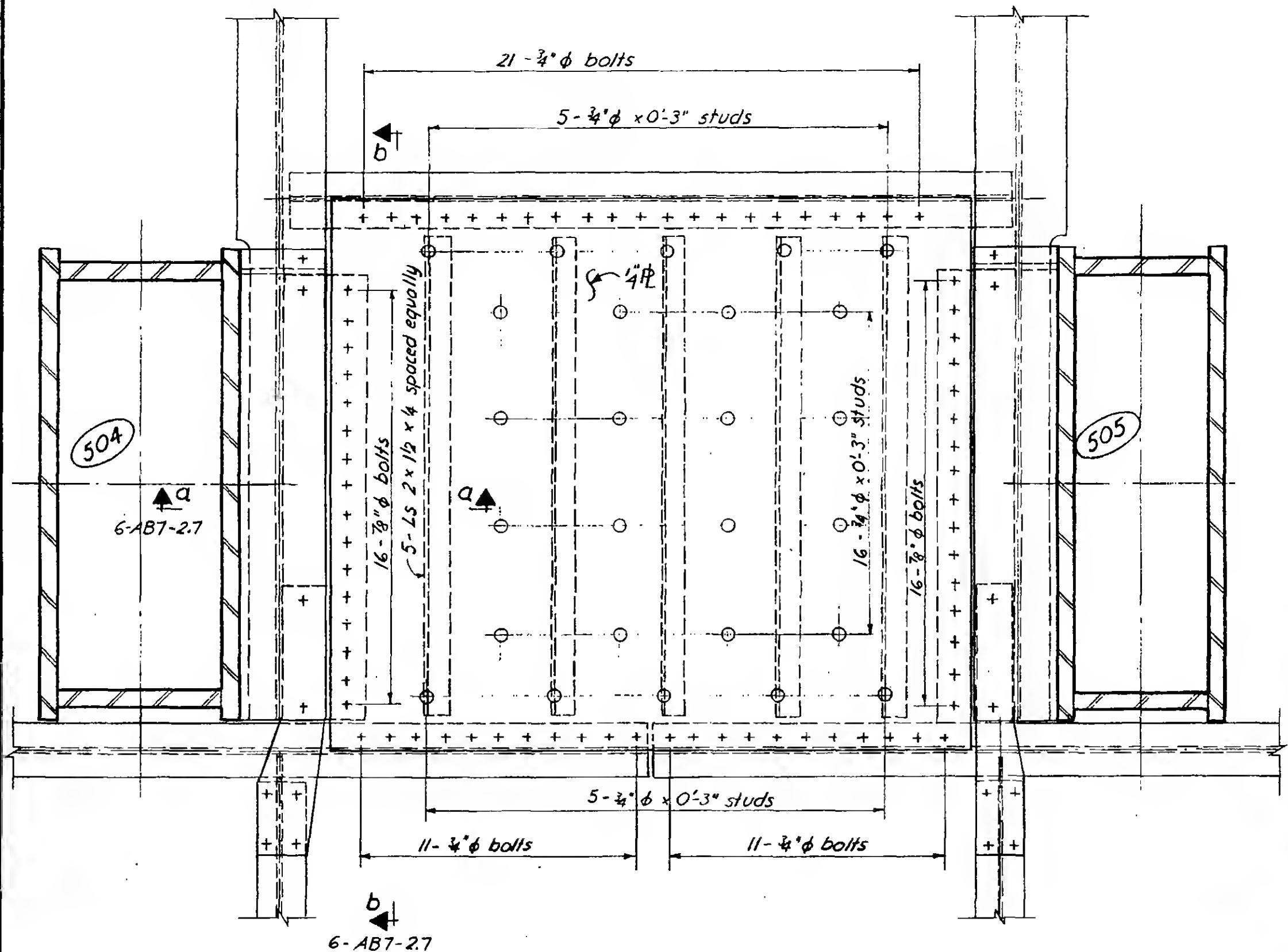


Section d-d



6-AB7-2.5

REVISIONS



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

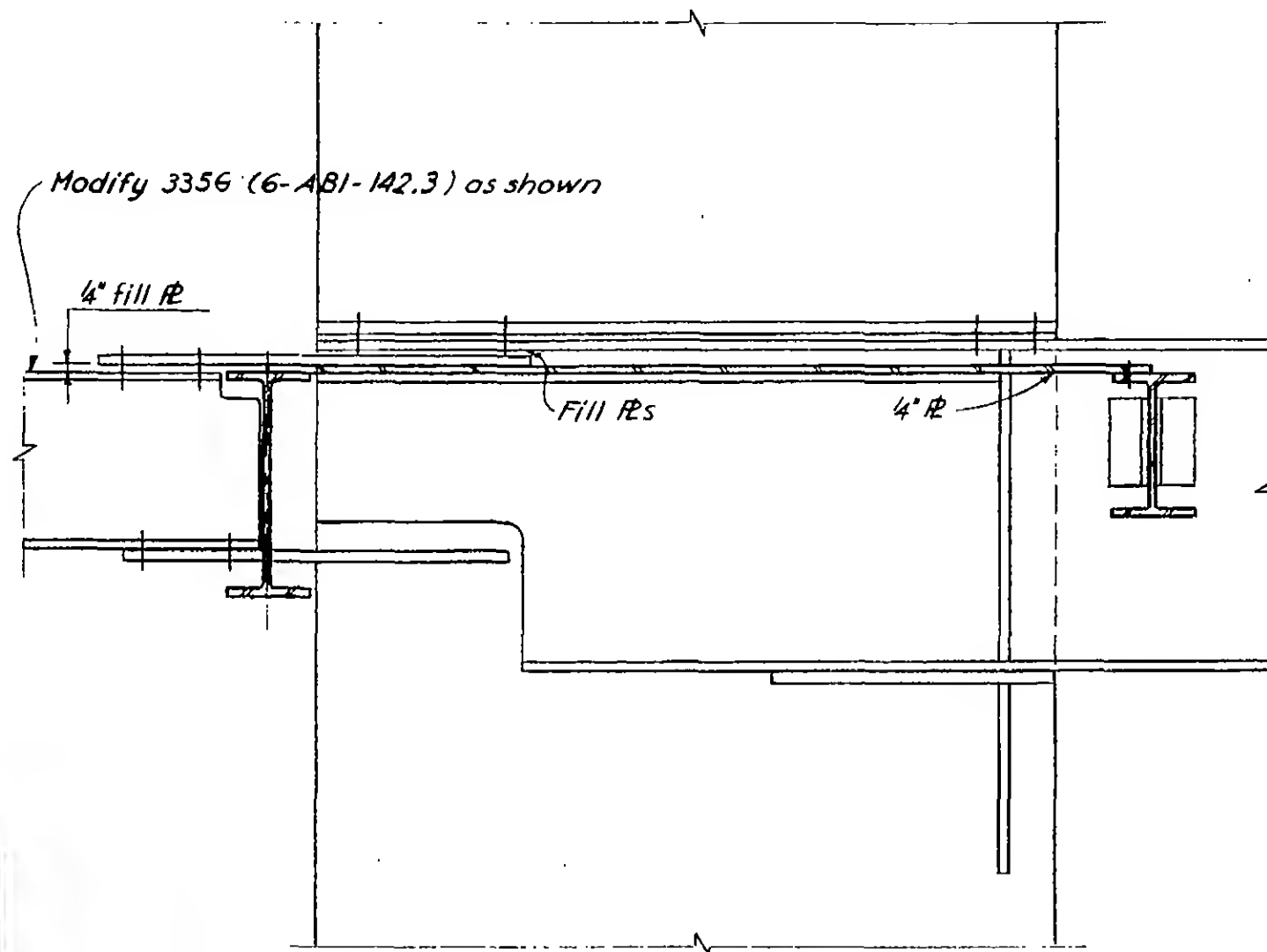
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

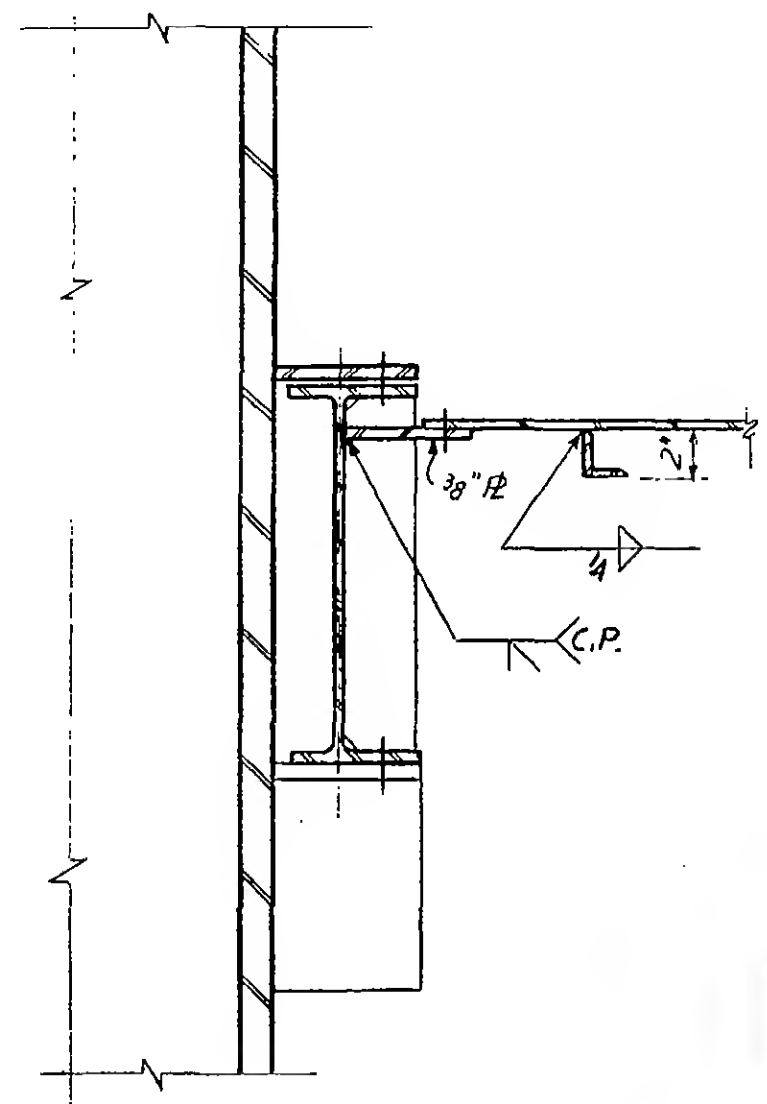
TITLE SHEAR PLATE AT 44TH FLOOR - SECTIONS

DATE 1-24-68

REVISIONS

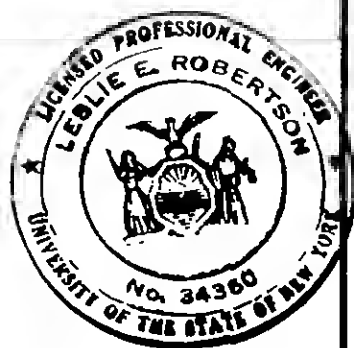


Section b-b



Section a-a

For details not shown
see 202 D (6-ABI-5.2)
and 3356 (6-ABI-142.3)



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

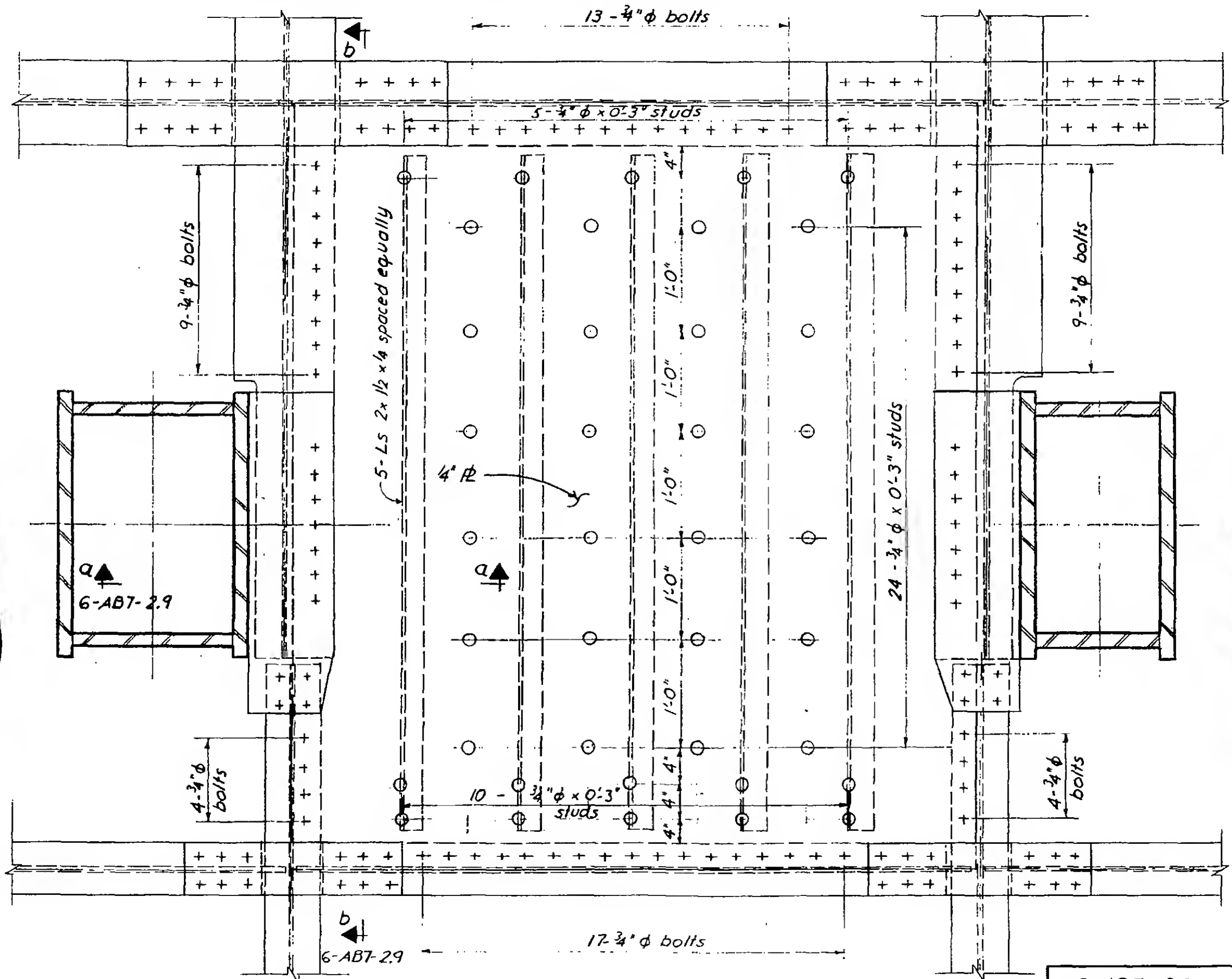
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SHEAR PLATE AT 75TH & 77TH FLOOR

DATE 2-21-68

REVISIONS



6-AB7-2.8



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

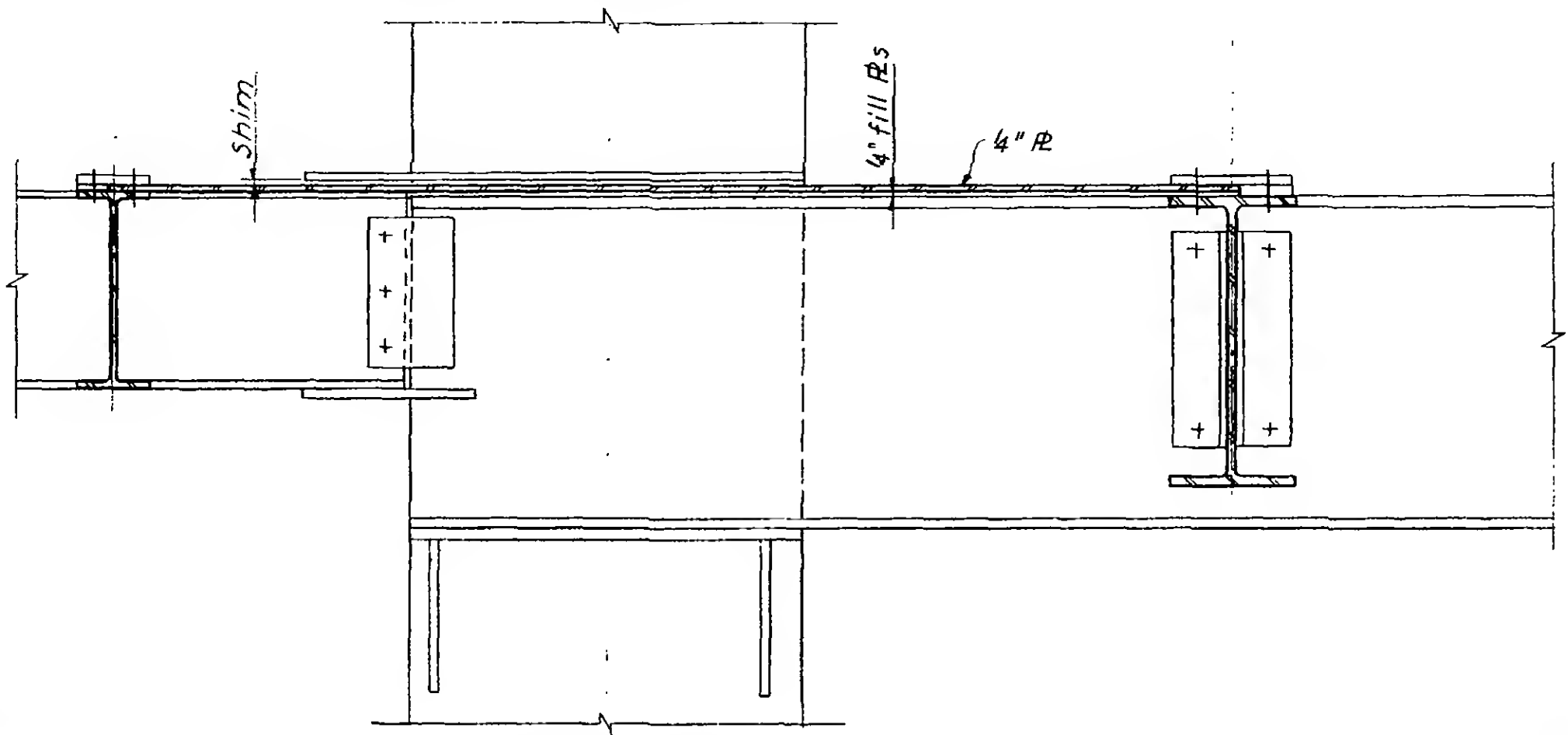
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

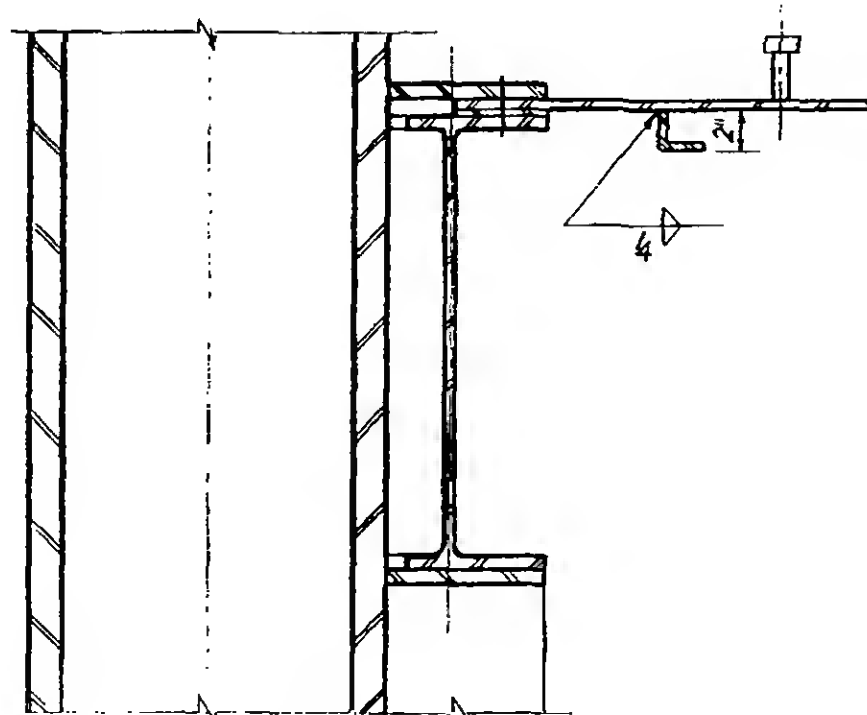
TITLE SHEAR PLATE AT 15TH & 17TH FLOOR - SECTIONS

DATE 2-21-68

REVISIONS



Section b-b

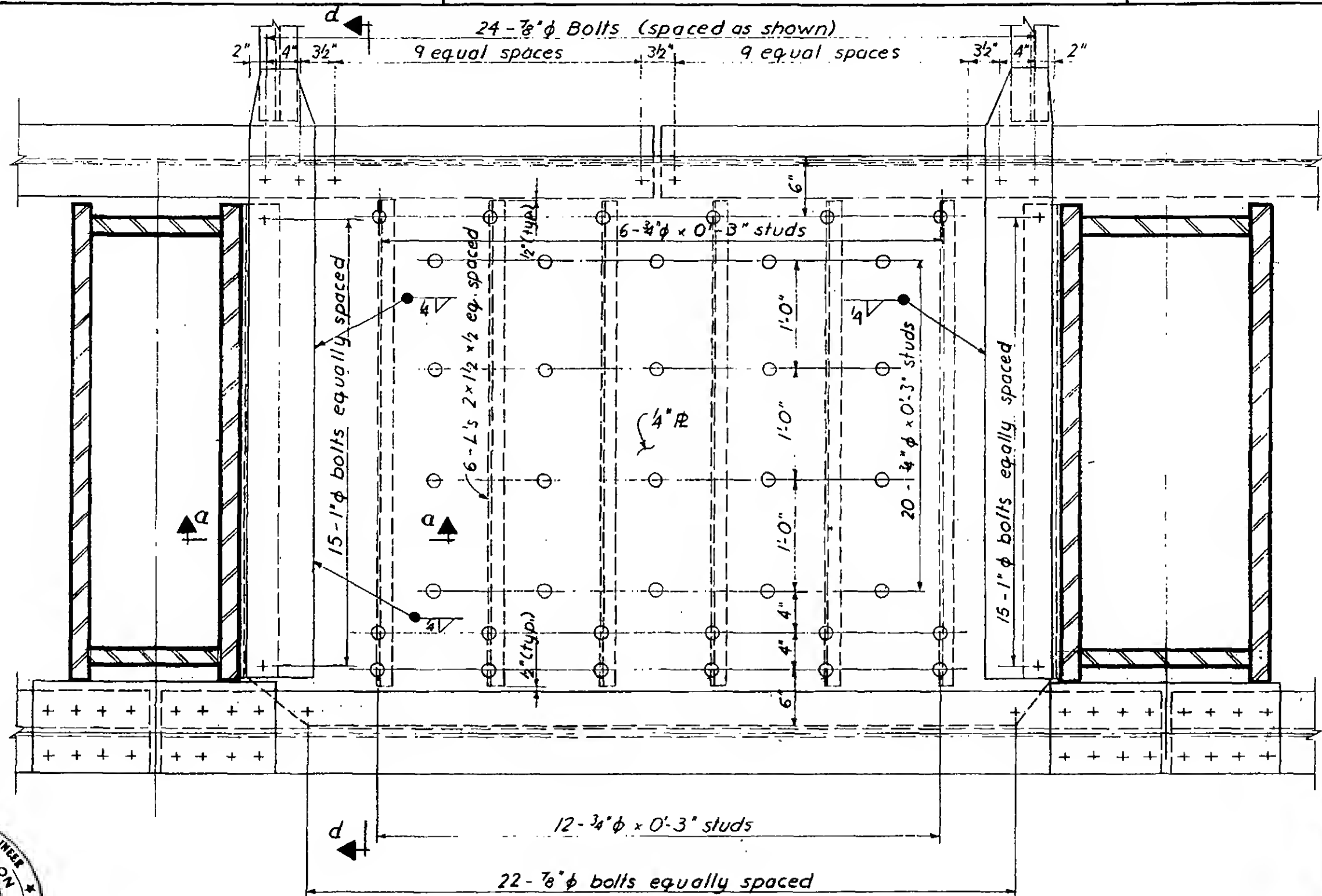


Section a-a



6-AB7-2.9

REVISIONS



See 6-AB7-2.1 for section a-a
See 6-AB7-2.5 for section d-d

6-AB7-2.10



SKILLING, HELLE, CHRISTIANSEN, ROBERTSON

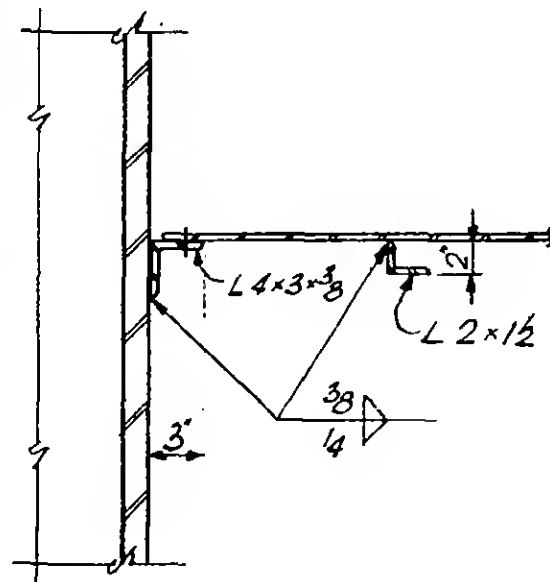
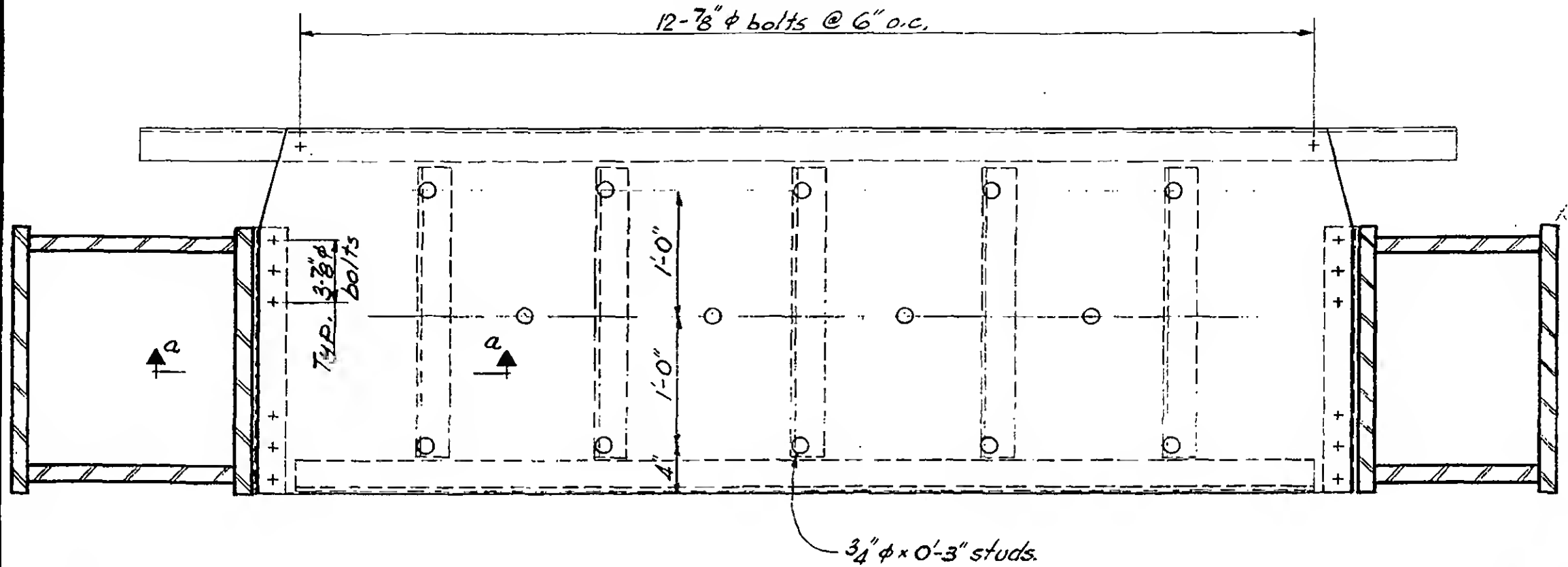
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SHEAR # DETAIL FLOOR 81

DATE 9-27-68

REVISIONS



Section a-a



DESIGNED

DRAWN

REVIEWED

6-AB7-2.11

PROJECT

THE WORLD TRADE CENTER

TITLE

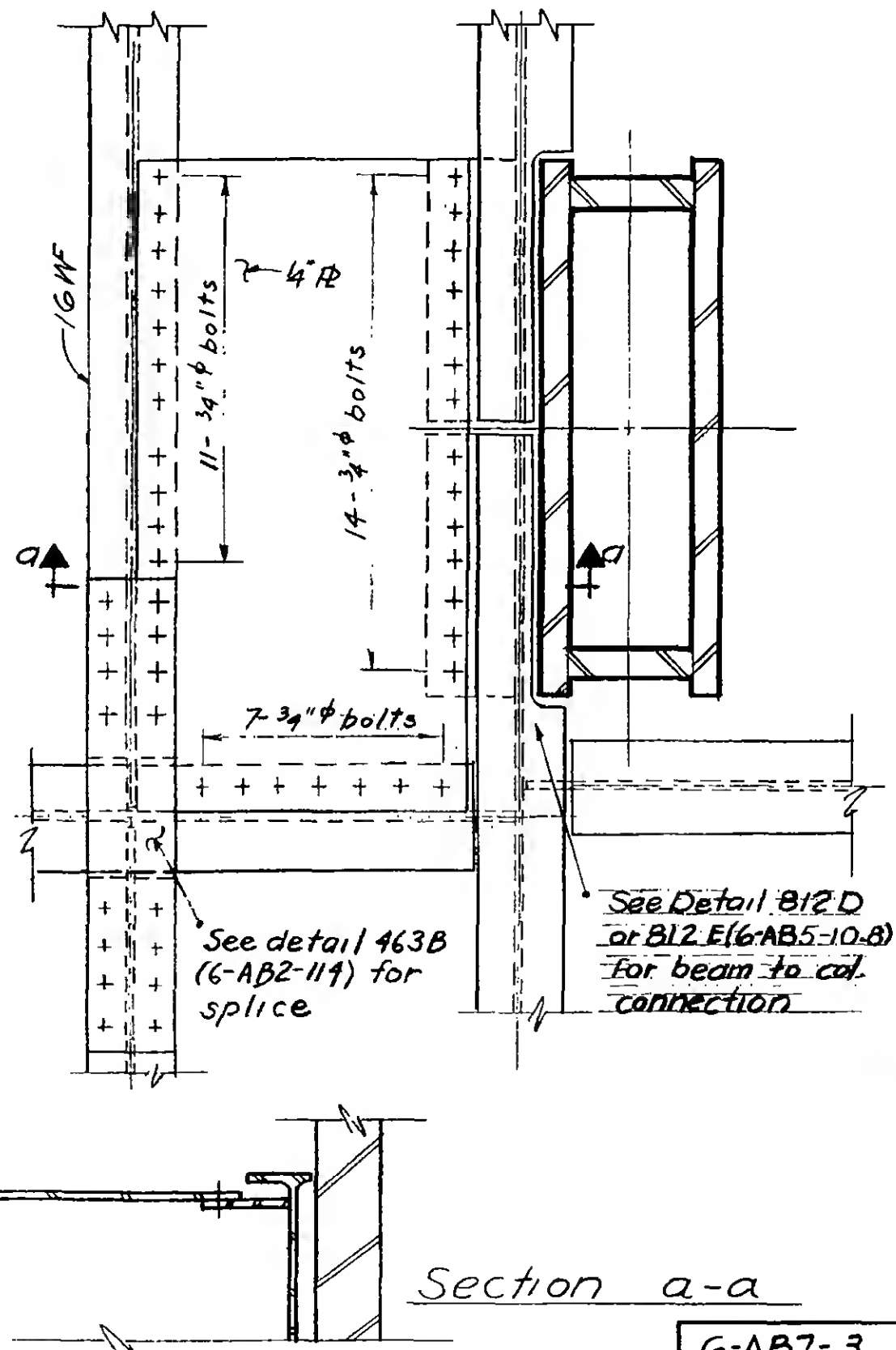
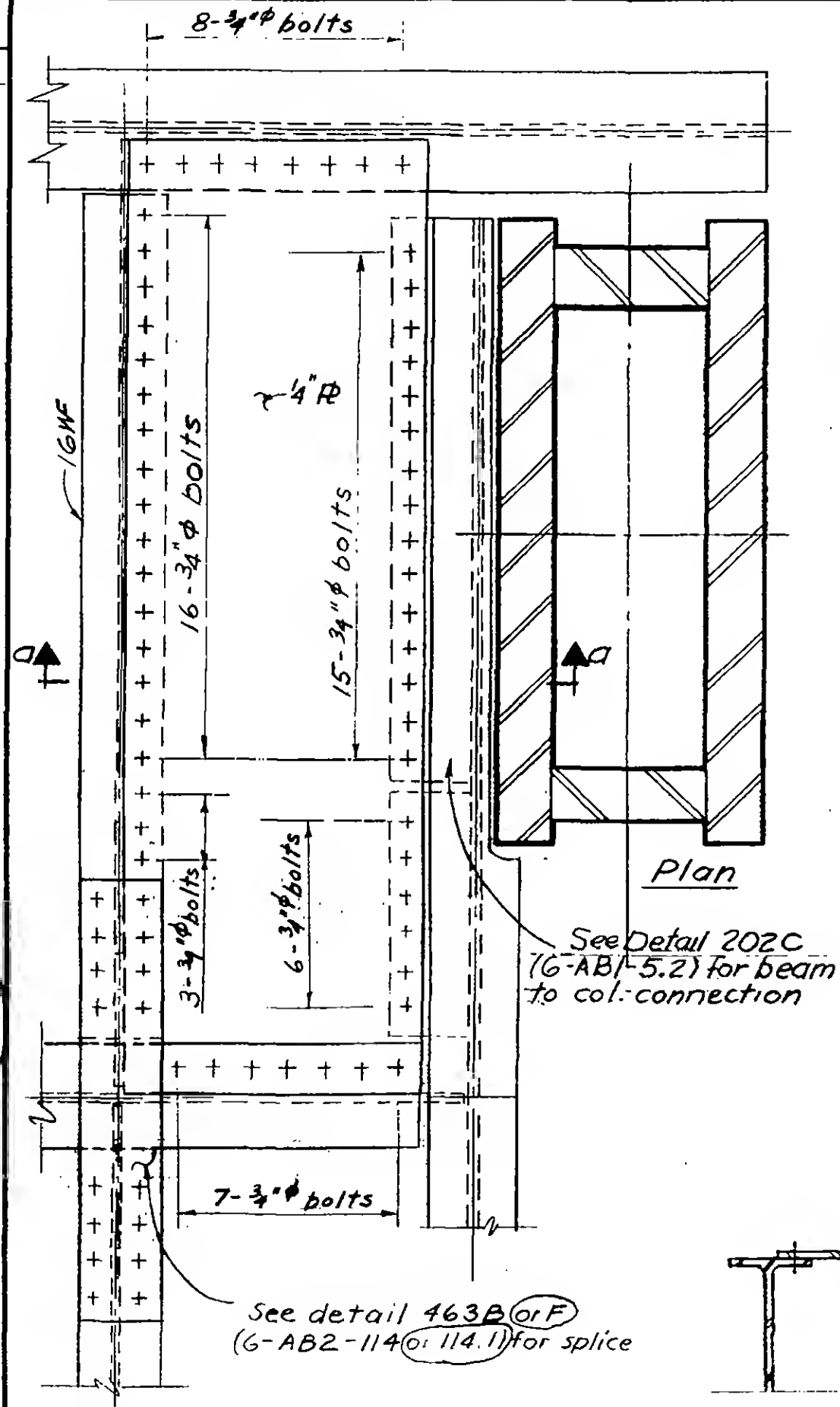
SHEAR PLATE DETAIL

DATE

8-14-67

REVISIONS

2-9-68



6-AB7-3

PROJECT

THE WORLD TRADE CENTER

TITLE

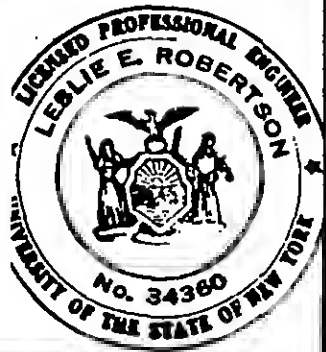
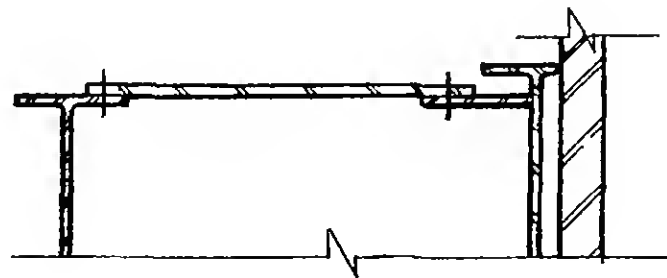
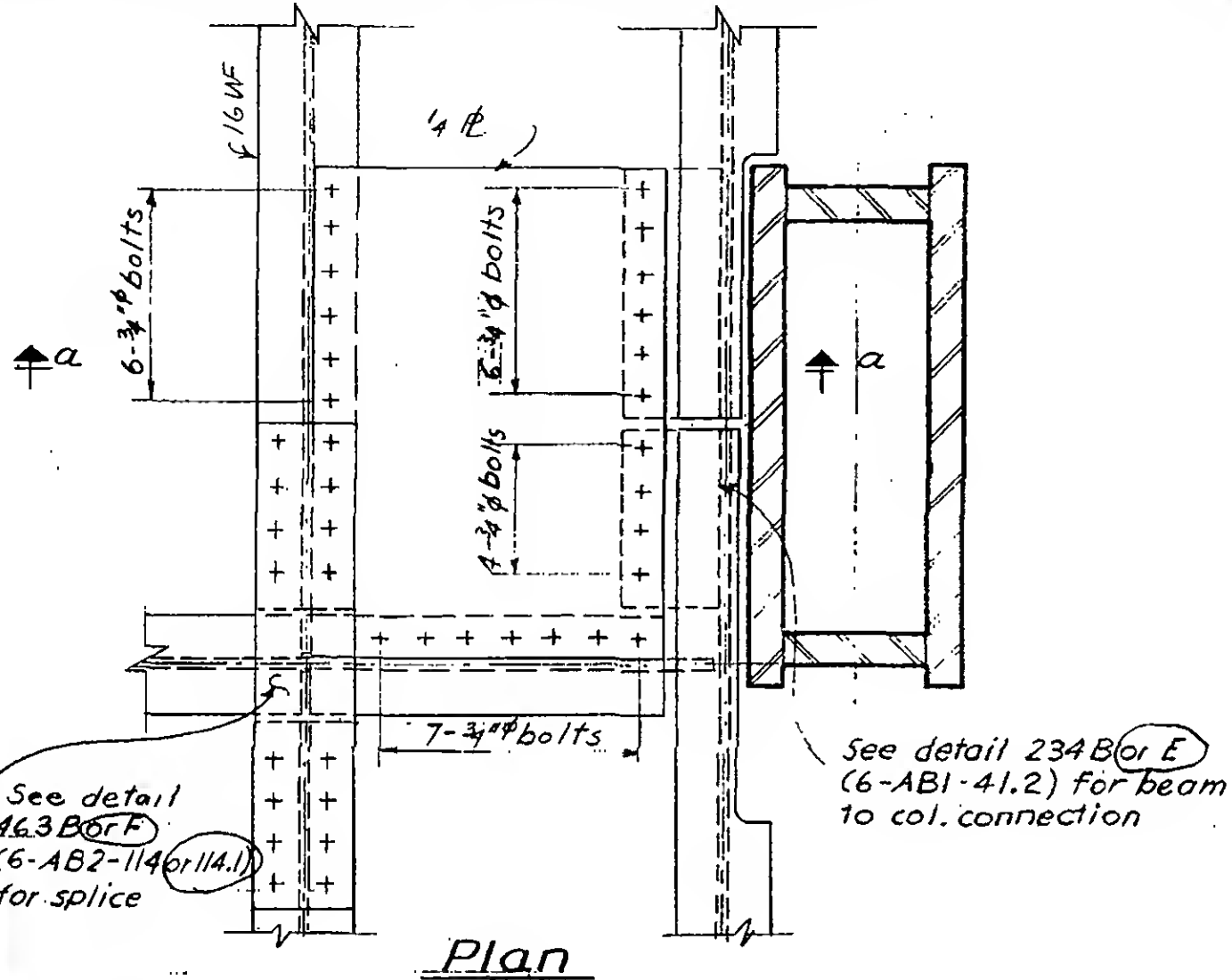
SHEAR PLATE DETAIL

DATE

8-14-67

REVISIONS

2-9-68



PROJECT

THE WORLD TRADE CENTER

TITLE

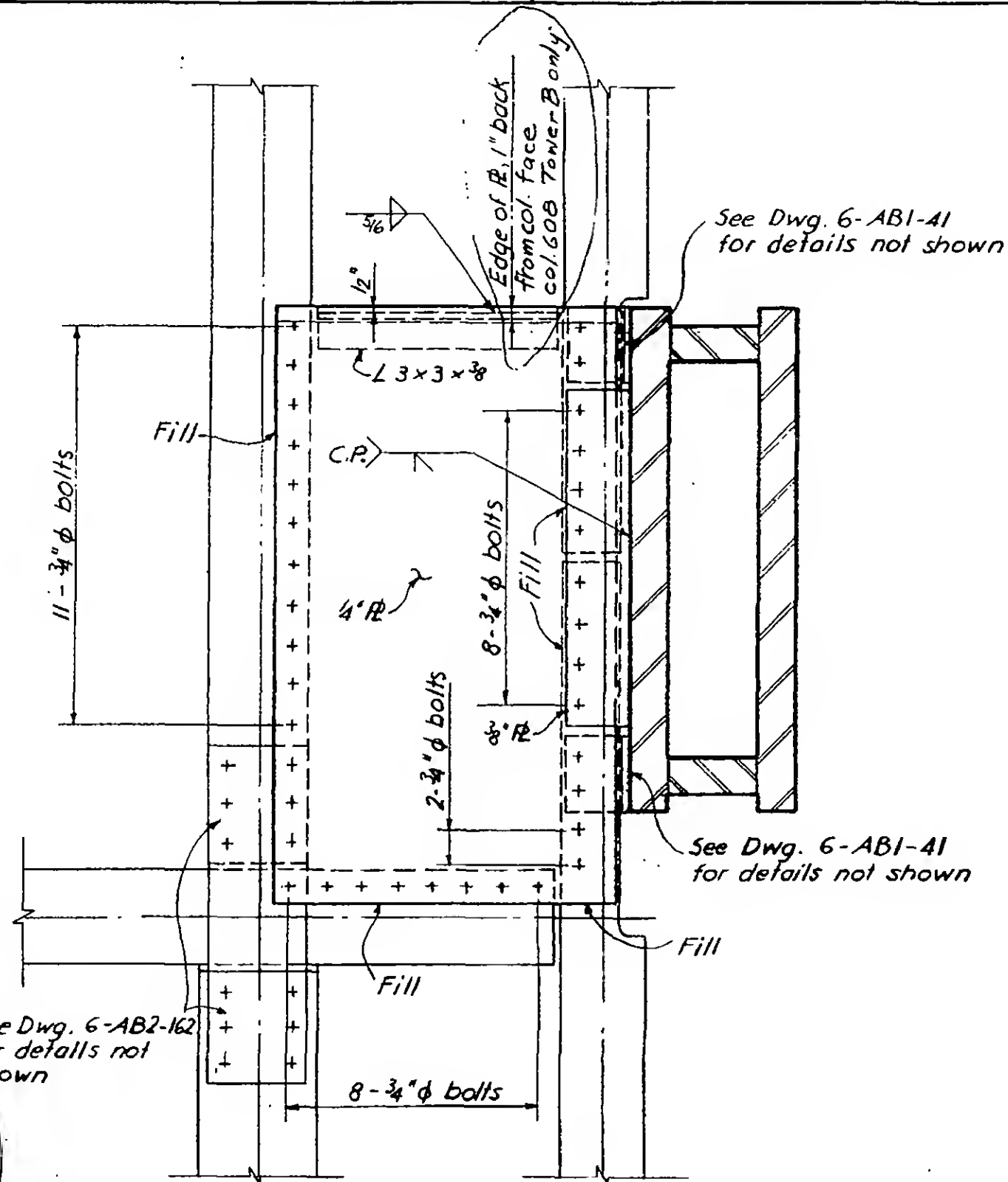
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DATE

12-21-67

REVISIONS

5-7-68



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

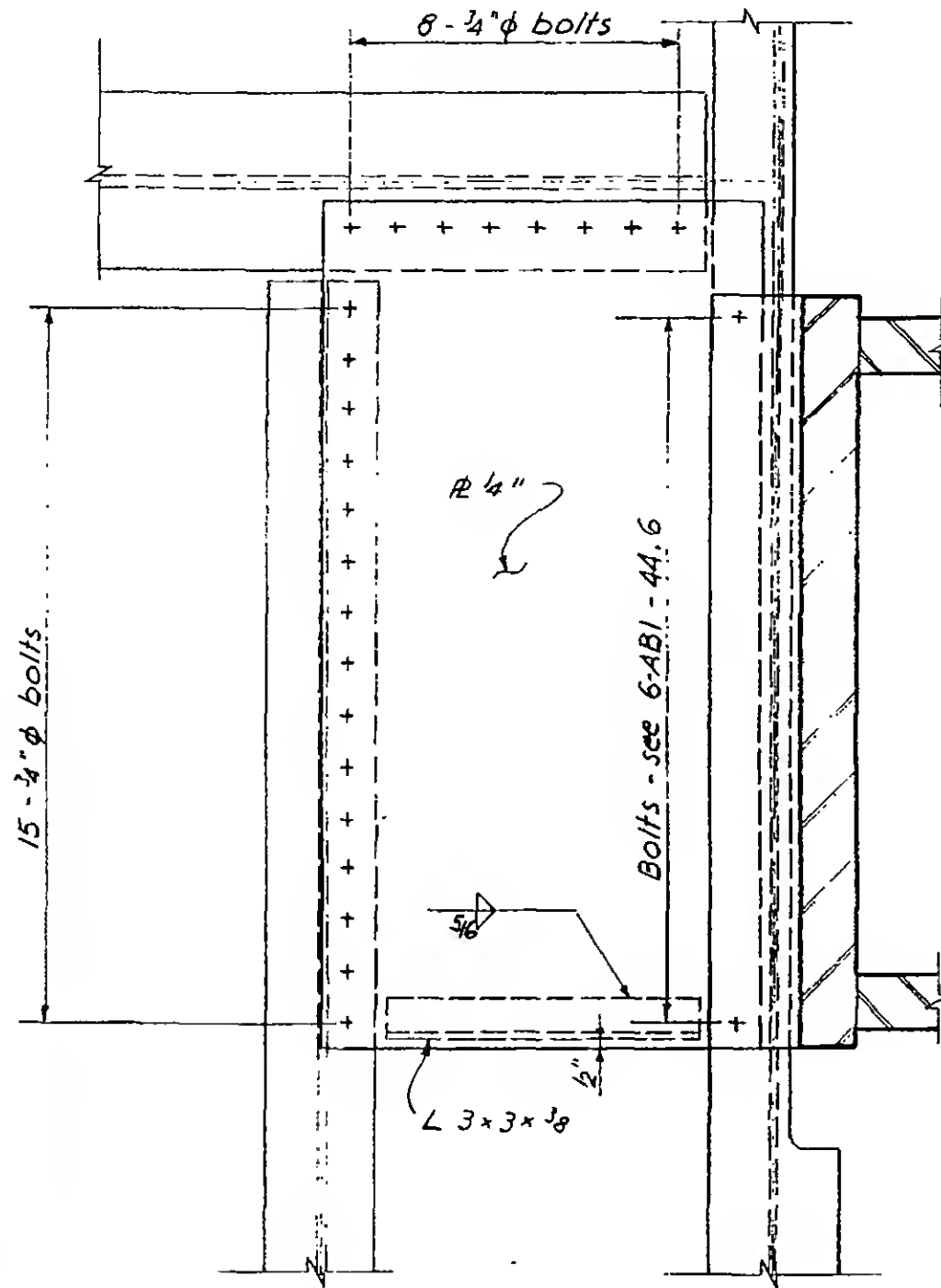
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE SHEAR PLATE DETAIL

DATE 2-9-68

REVISIONS



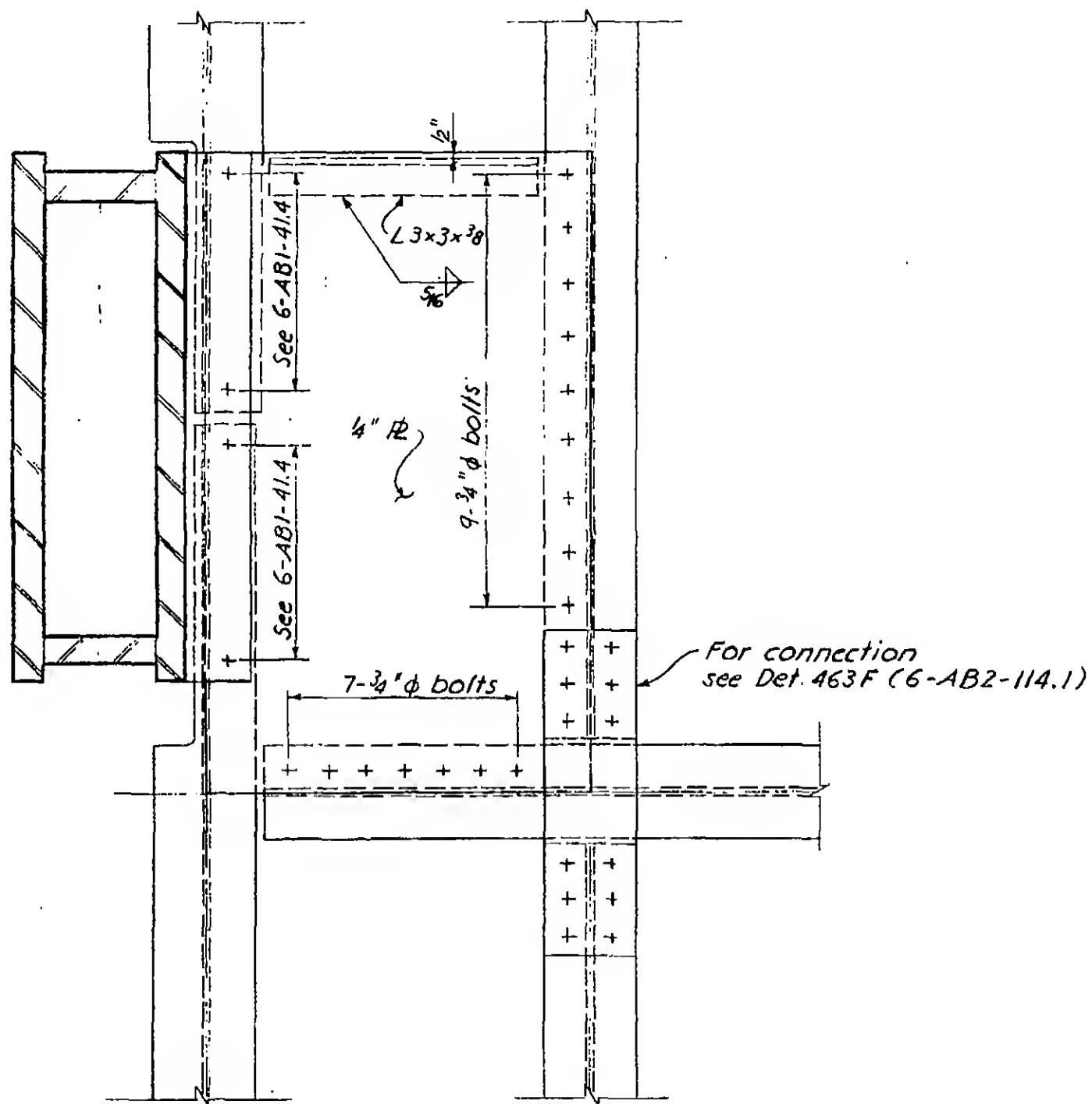
6 - AB7 - 5.1

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PROJECT	THE WORLD TRADE CENTER	TITLE	SHEAR PLATE DETAIL
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DATE 2-9-68

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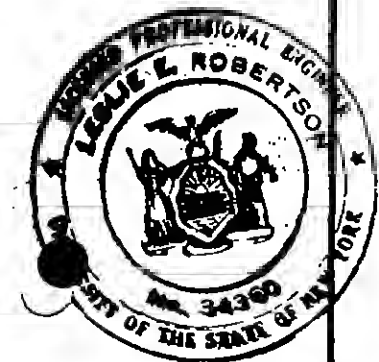
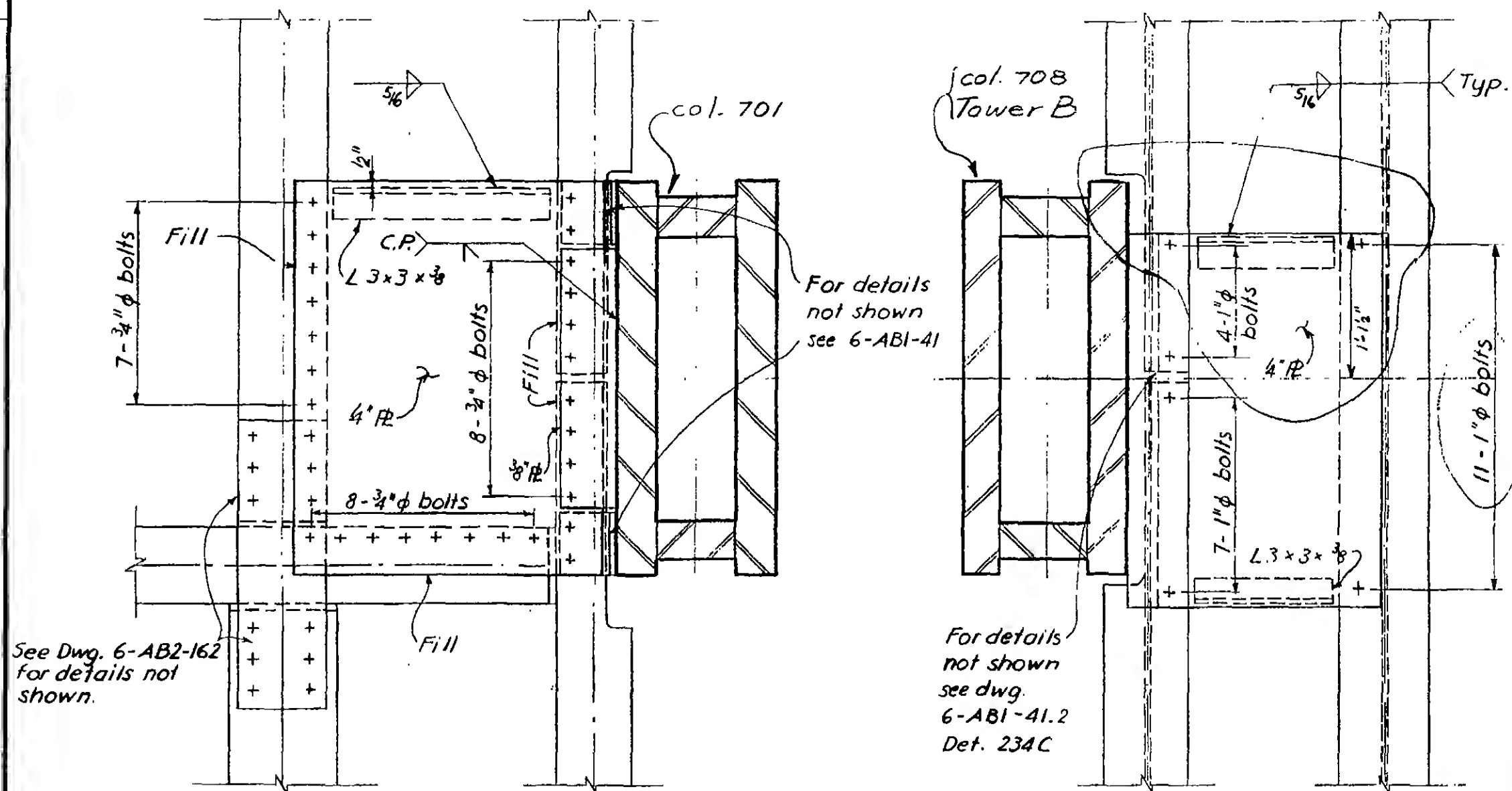


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PROJECT

THE WORLD TRADE CENTER

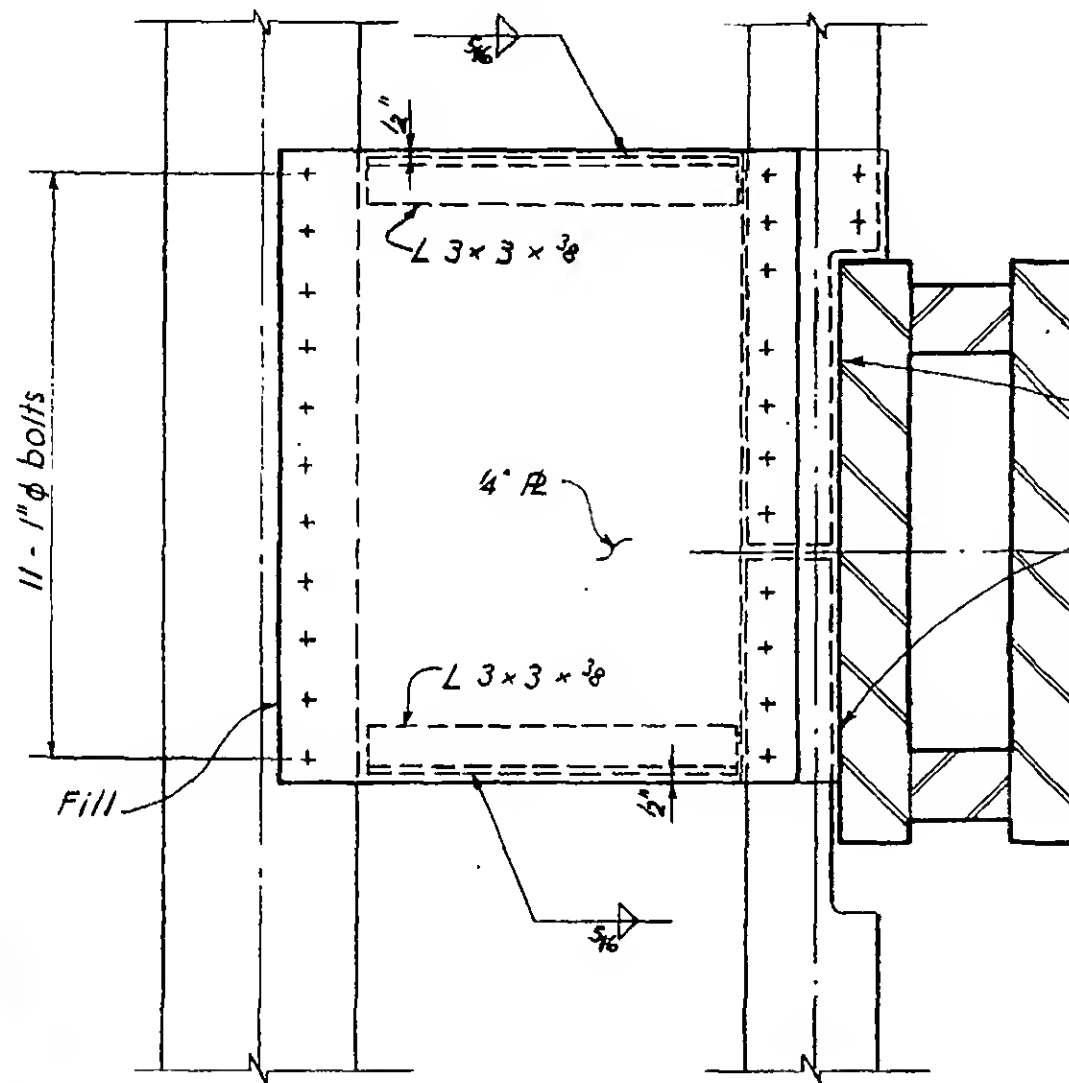
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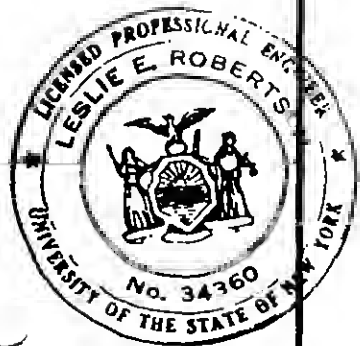
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12-21-67

REVISIONS



For details not shown
see Dwg. 6-AB5-85



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PROJECT

THE WORLD TRADE CENTER

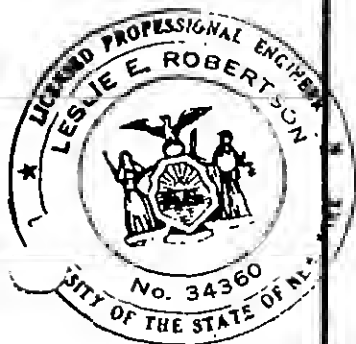
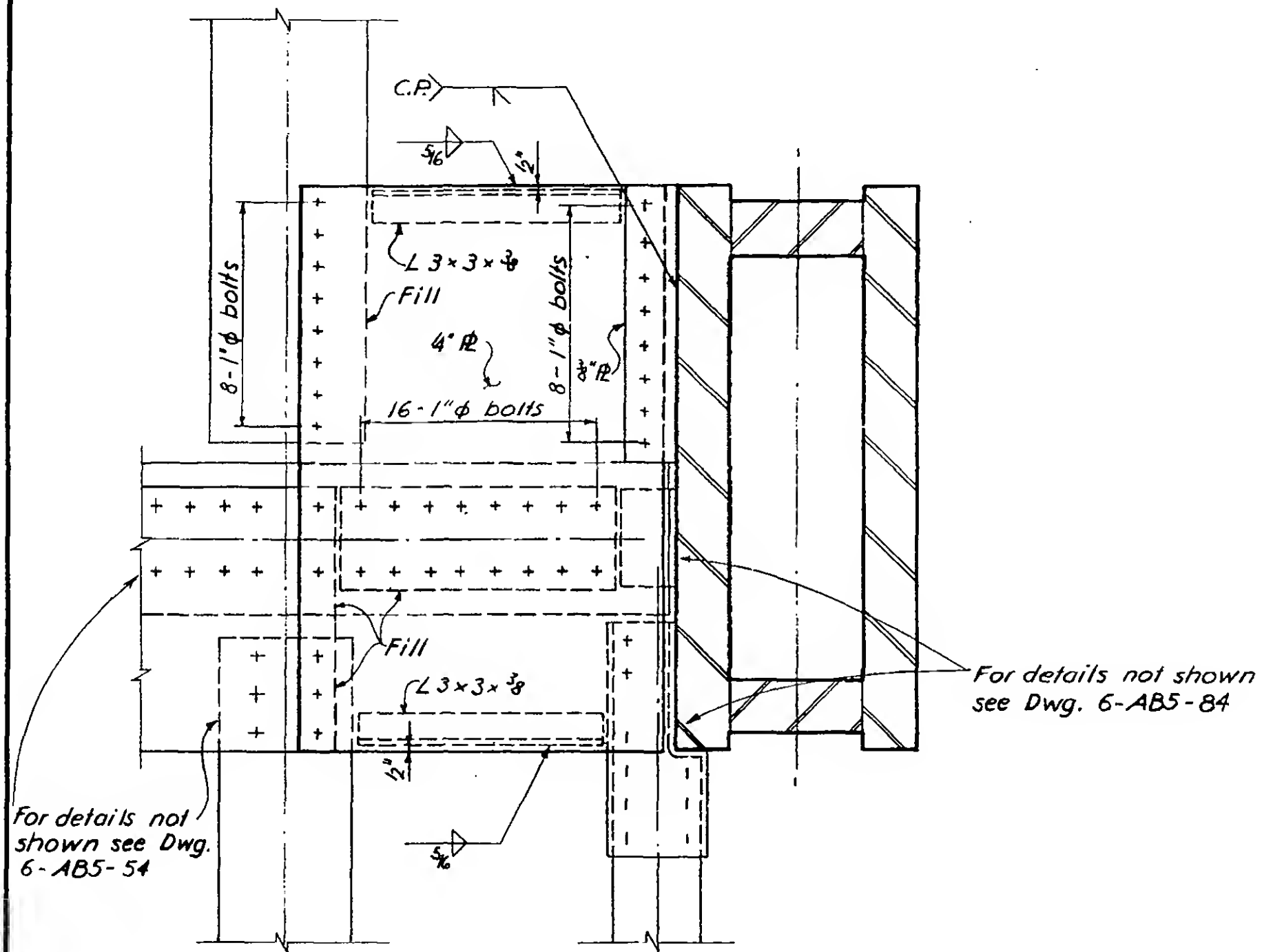
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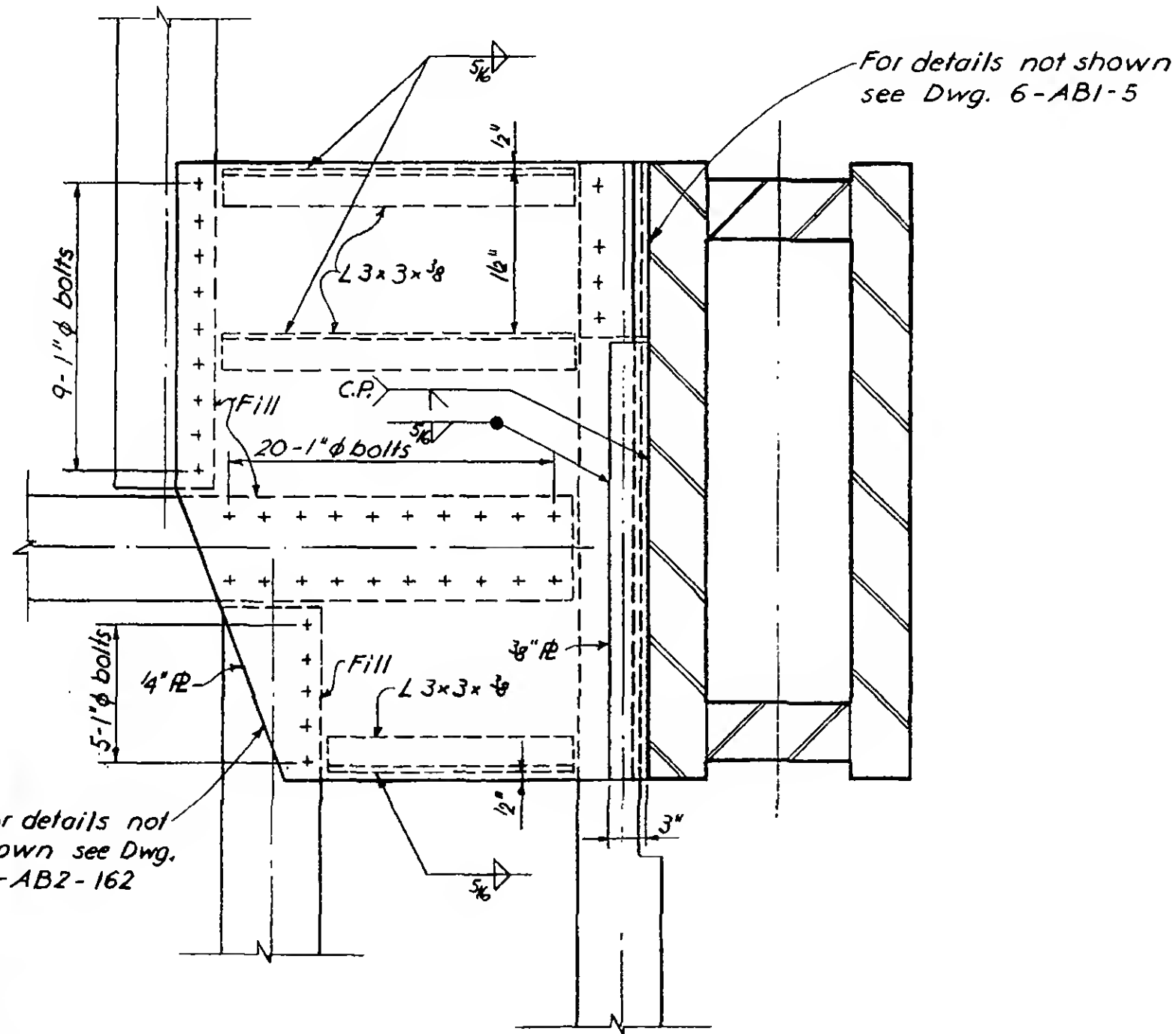
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12-21-67

REVISIONS



REVISIONS



PROJECT THE WORLD TRADE CENTER

TITLE TRUSS SEAT DETAILS ~ INDEX

DATE 9-6-67

REVISIONS

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11-22-67

9-18-68

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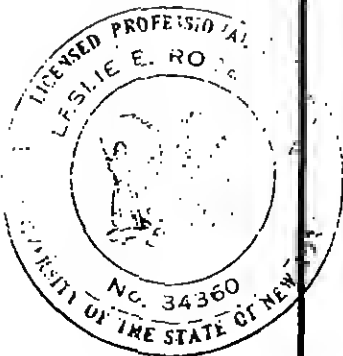
4-1-69

Printed 5-1-69

6-AB8-2	1	CORE PERIMETER ELEVATION ~ FLOORS 10-40
6-AB8-3	"	" " " " 10-17, 19-40
6-AB8-4	"	" " " " FLOOR 18
6-AB8-5	1	" " " " FLOORS 10-40
6-AB8-6	"	" " " " 10-33 & 35-40
6-AB8-7		CORE PERIMETER ELEVATION ~ FLOOR 34
6-AB8-8		TRUSS SEAT DETAIL ~ 10
6-AB8-9	"	" " " " 11
6-AB8-10	"	" " " " 12
6-AB8-11	"	" " " " 13
6-AB8-12	"	" " " " 14
6-AB8-13	"	" " " " 15
6-AB8-14		TRUSS SEAT DETAIL ~ 16
6-AB8-15		CORE PERIMETER ELEVATION ~ FLOOR 44 (TOWER A)
6-AB8-15.1	"	" " " " (TOWER B)
6-AB8-16	"	" " " " FLOORS 44 (TOWER A ONLY) & 78 (TOWER A & B)
6-AB8-16.1	"	" " " " FLOOR 44 (TOWER B)
6-AB8-17	"	" " " " 45
6-AB8-18	"	" " " " FLOORS 46-74, 79-82
6-AB8-19	"	" " " " 46, 48 & 49
6-AB8-20	"	" " " " FLOOR 47
6-AB8-21	"	" " " " FLOORS 50-55, 57-74
6-AB8-22	"	" " " " FLOOR 56
6-AB8-23	"	" " " " FLOORS 45-48
6-AB8-24	"	" " " " 49-74, 79-106
6-AB8-25	"	" " " " FLOORS 45, 46, 48 & 49
6-AB8-26	"	" " " " FLOOR 47
6-AB8-27	"	" " " " FLOORS 50-68, 70-74
6-AB8-28		CORE PERIMETER ELEVATION ~ FLOOR 69
6-AB8-29		TRUSS SEAT DETAIL ~ 17, 18
6-AB8-30	"	" " " " 19
6-AB8-31	"	" " " " 20, 21
6-AB8-32	"	" " " " 22
6-AB8-33		TRUSS SEAT DETAIL ~ 23
6-AB8-34		CORE PERIMETER ELEVATION ~ FLOOR 78
6-AB8-35	"	" " " " FLOORS 83-106
6-AB8-36	"	" " " " 79, 80, 82 & 83
6-AB8-37	"	" " " " FLOOR 81
6-AB8-38	"	" " " " FLOORS 84-94, 96-106
6-AB8-39	"	" " " " FLOOR 95
6-AB8-40	"	" " " " FLOORS 80, 82 & 83
6-AB8-41	"	" " " " FLOOR 81
6-AB8-42	"	" " " " FLOORS 84-87, 89-106
6-AB8-43	"	" " " " FLOOR 88
6-AB8-44		CORE PERIMETER ELEVATION ~ FLOORS 44, 45, 78 & 79
6-AB8-45		TRUSS SEAT DETAIL ~ 24
6-AB8-46	"	" " " " 25
6-AB8-47		TRUSS SEAT DETAIL ~ 26, 27 & 28
6-AB8-48	"	" " " " 29
6-AB8-49	"	" " " " 30, 31 & 32

Note:
Sheet 1 of 2

6-AB8-1



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PROJECT THE WORLD TRADE CENTER

TITLE TRUSS SEAT DETAILS ~ INDEX

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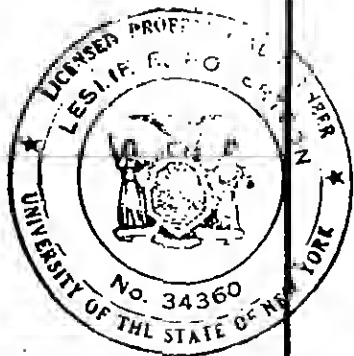
2-3-69

3-3-69

4-1-69

Printed 5-1-69

6-AB8-50 CORE PERIMETER STUD SCHEDULE
6-AB8-50.1 CORE PERIMETER STUD DETAILS
6-AB8-51 CORE PERIMETER DETAIL 51
6-AB8-52 TRUSS SEAT DETAIL 33 & 34



Note:
Sheet 2 of 2

6-AB8-1.1

PROJECT

THE WORLD TRADE CENTER

TITLE

CORE PERIMETER ELEVATION - FLOORS 10-40

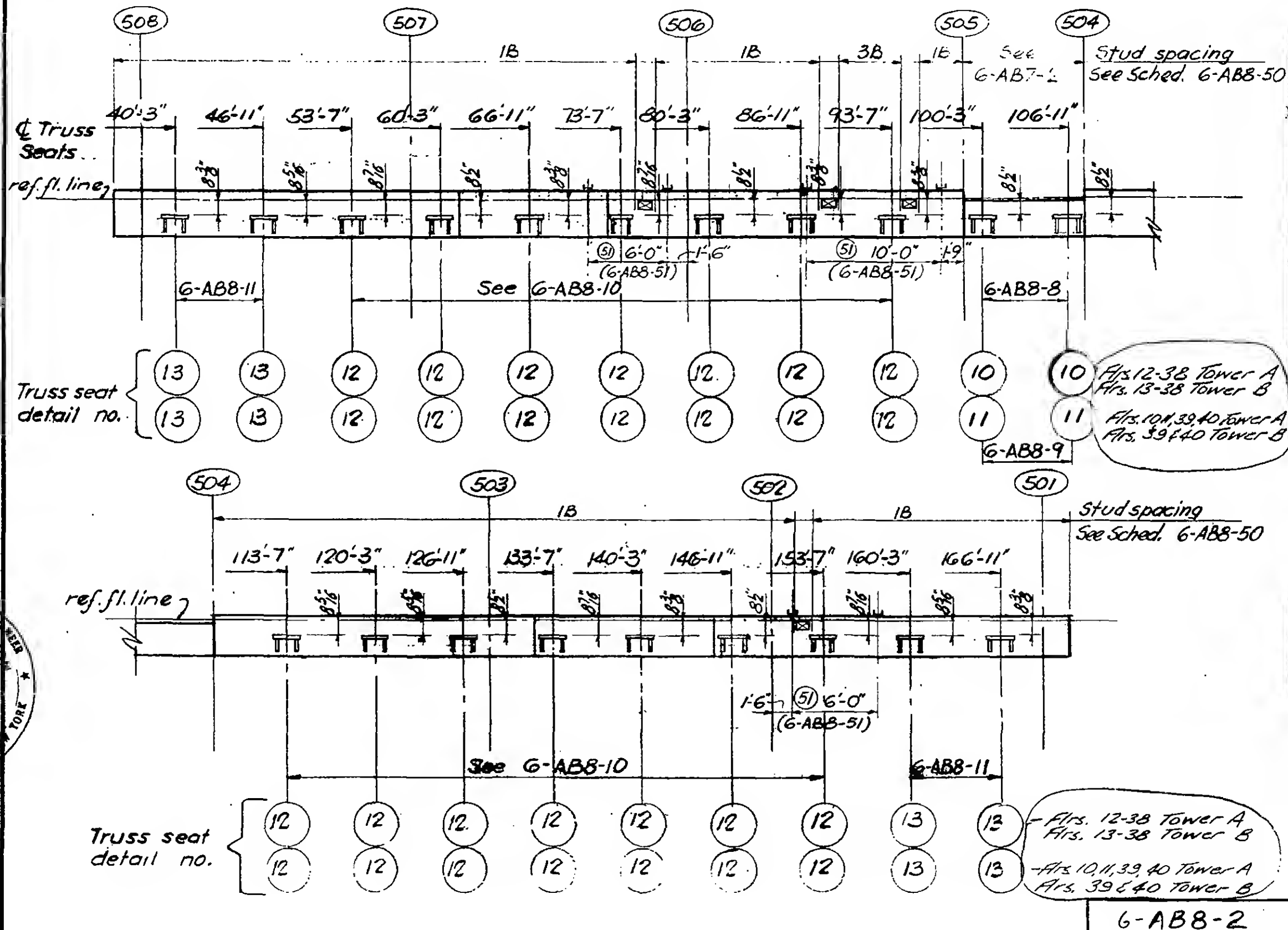
DATE

9-6-67

REVISIONS

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9-18-68



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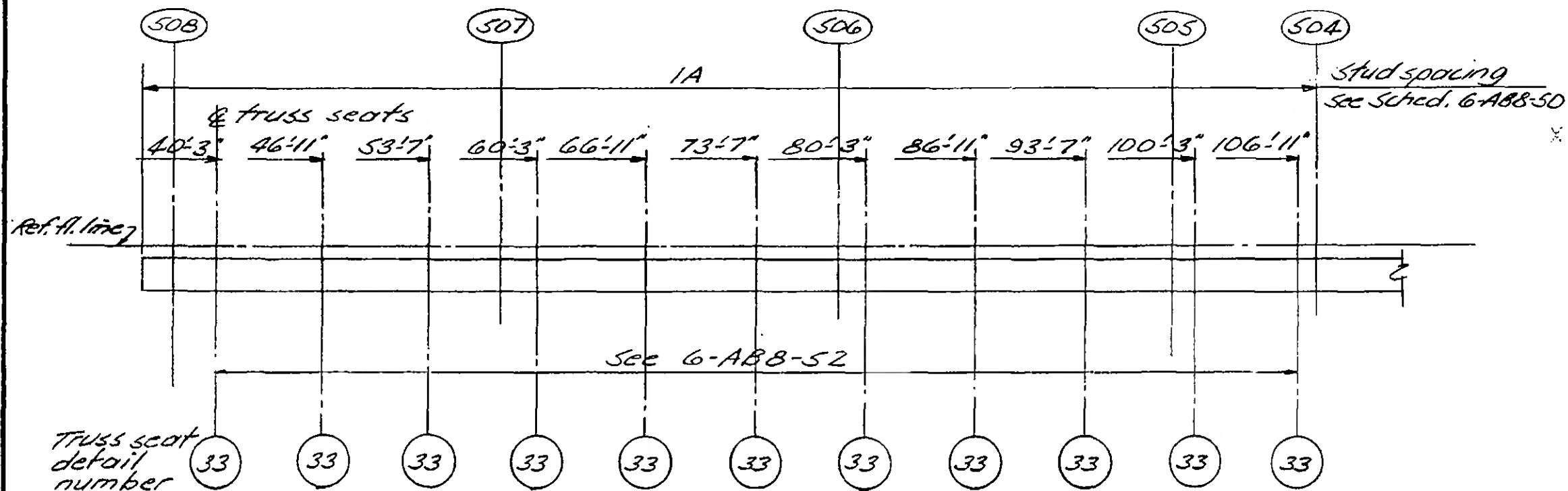
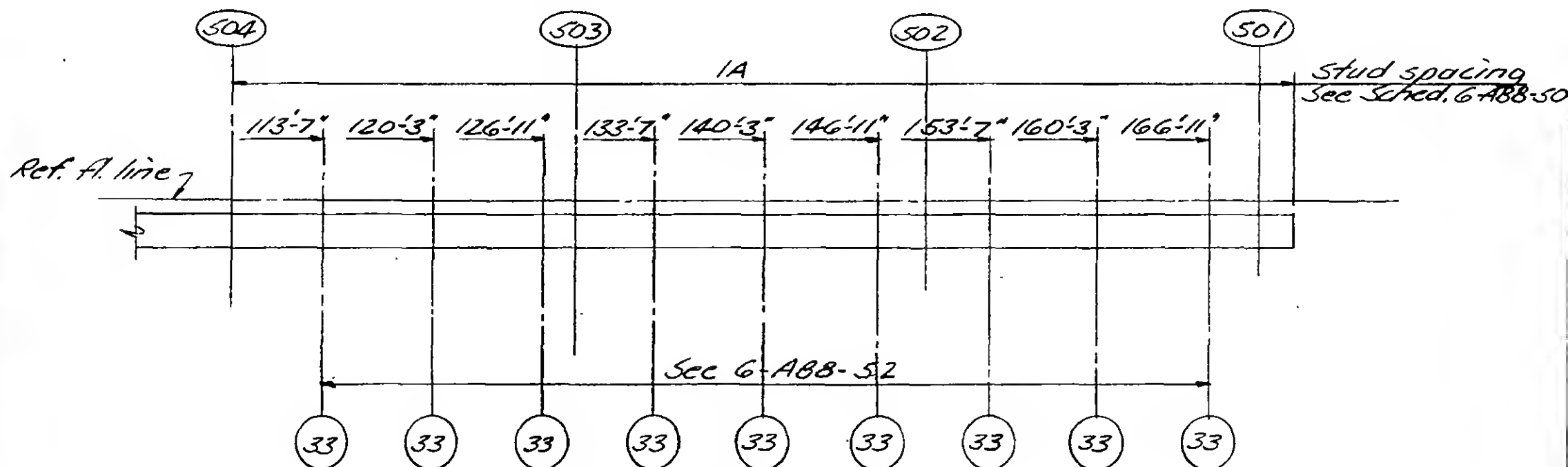
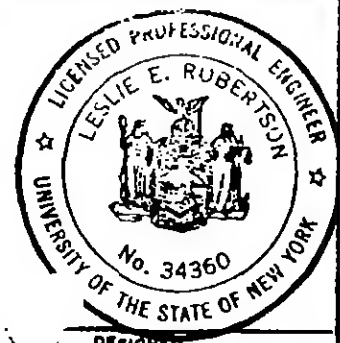
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PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEV. FLOORS 10-40.

DATE 9-18-68

REVISIONS

Floors 10, 11 & 12 Tower BFloors 10, 11 & 12 Tower B

DESIGNED

DRAWN

REVIEWED

6-ABB-2.1

PROJECT

THE WORLD TRADE CENTER

TITLE

CORE PERIMETER ELEVATION - FLOORS 10-17, 19-40

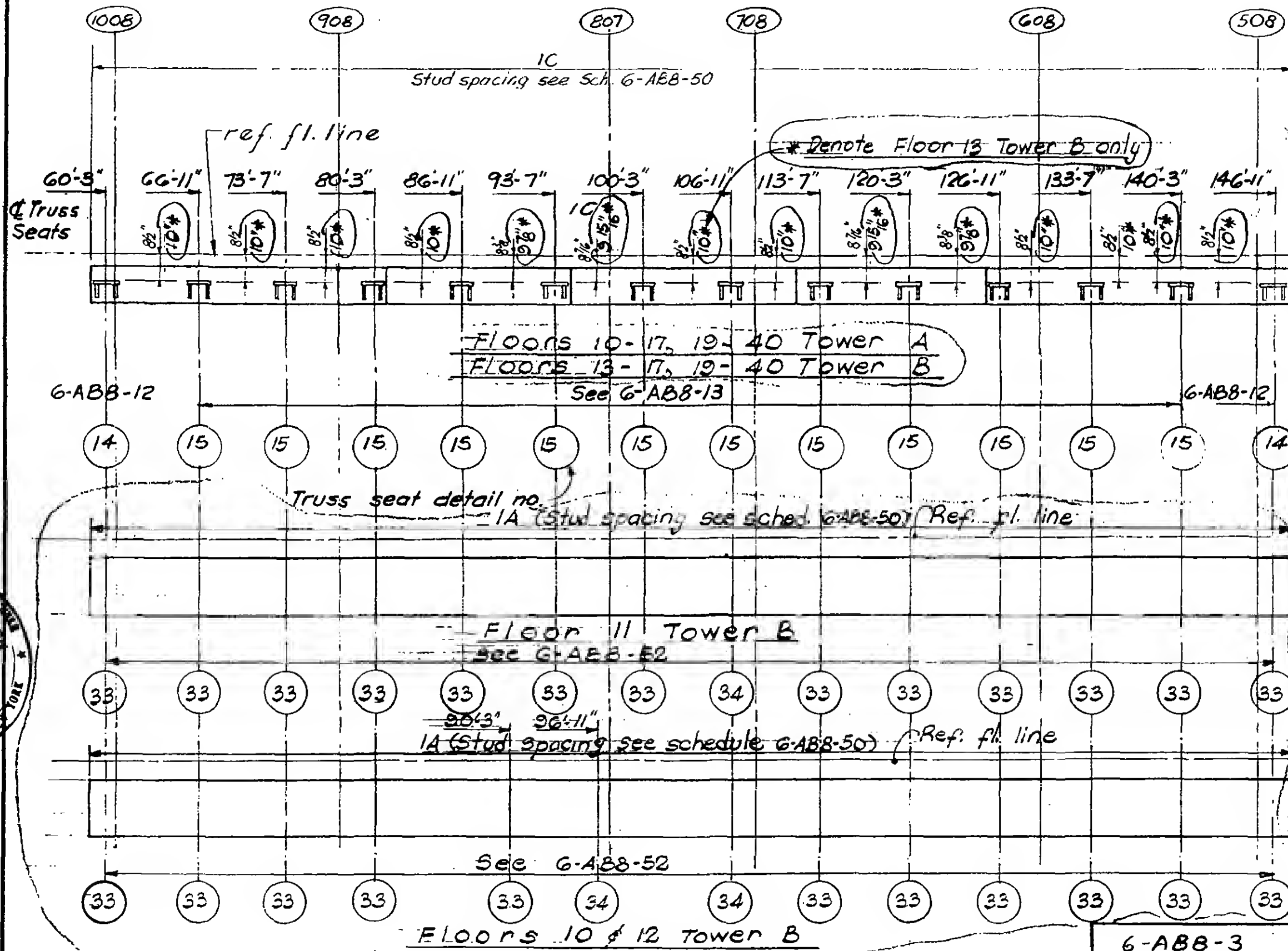
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9-6-67

REVISIONS

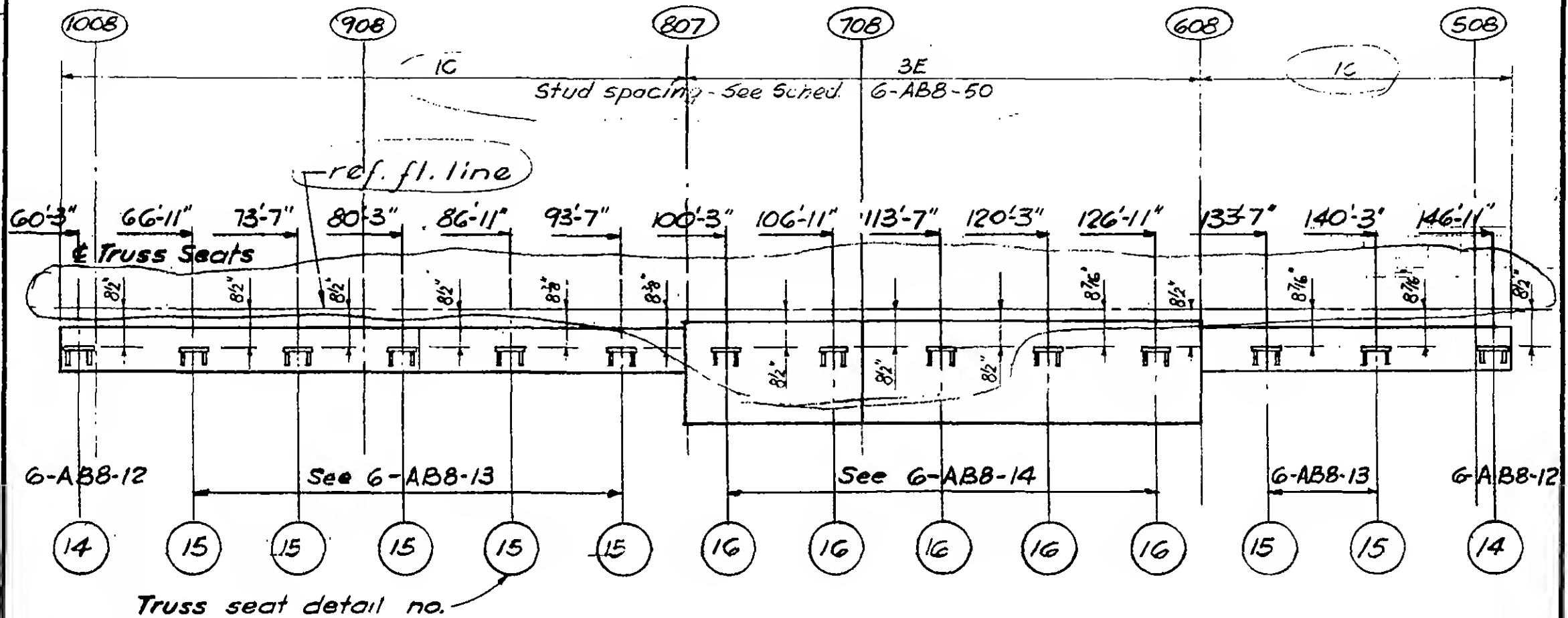
11-22-67

9-18-66



REVISIONS

11-22-67



6-AB8-4

PROJECT

THE WORLD TRADE CENTER

TITLE

CORE PERIMETER ELEVATION-FLOORS 10-40

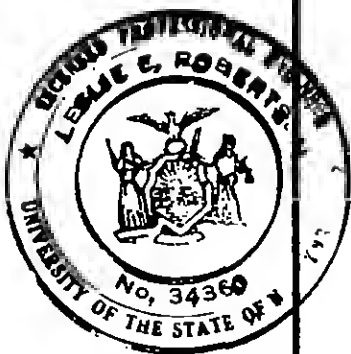
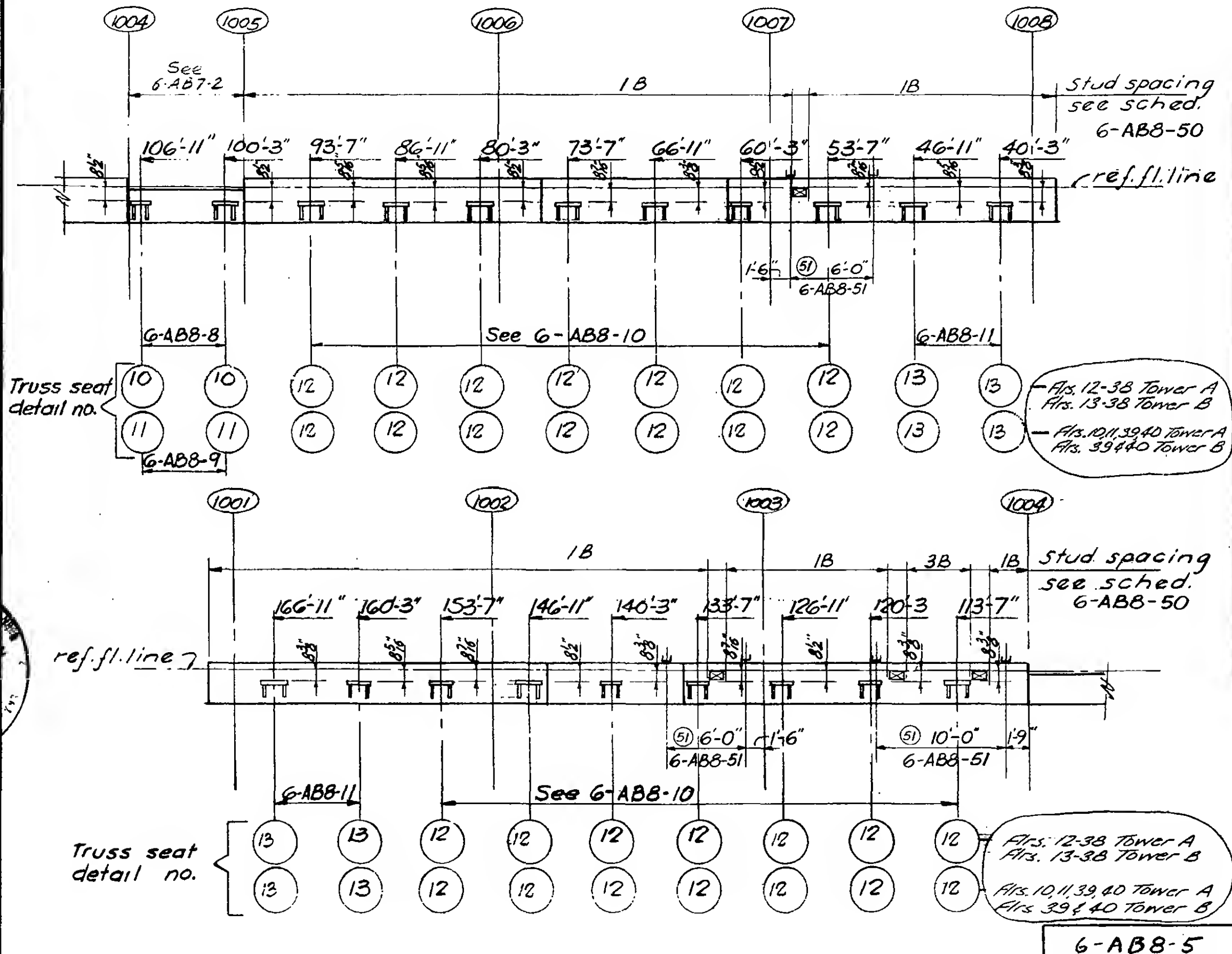
DATE

9-6-67

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THE WORLD TRADE CENTER

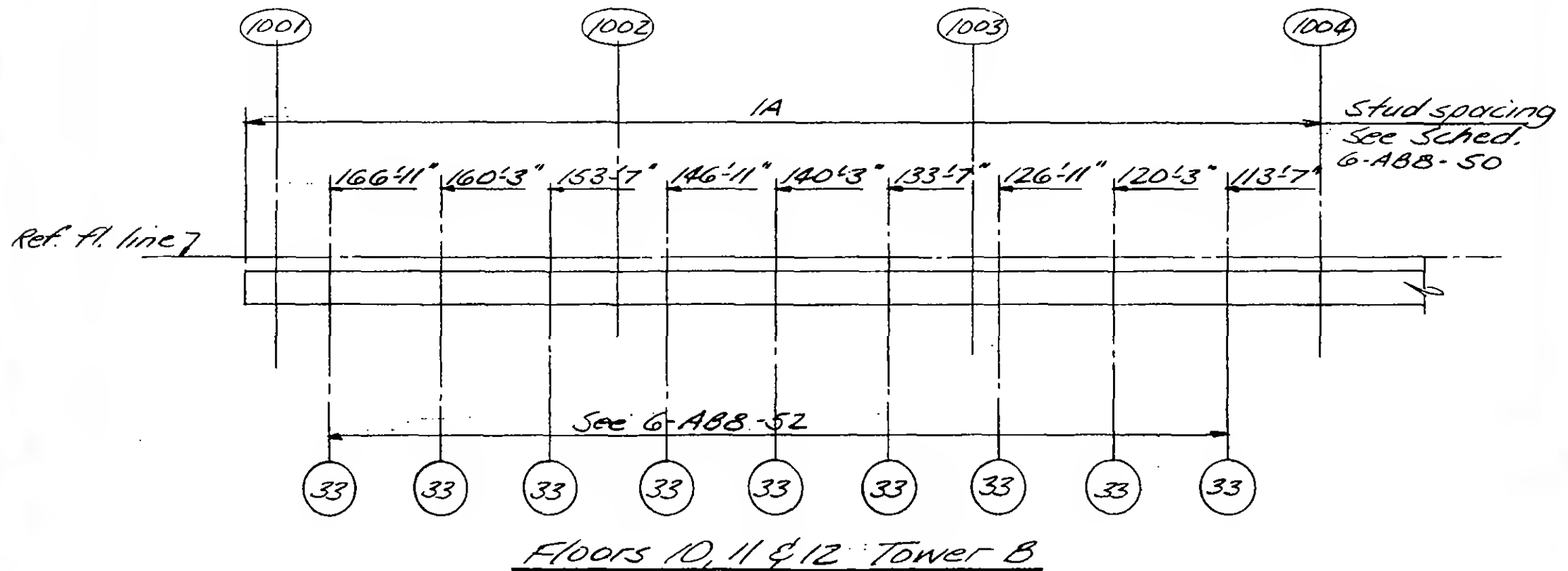
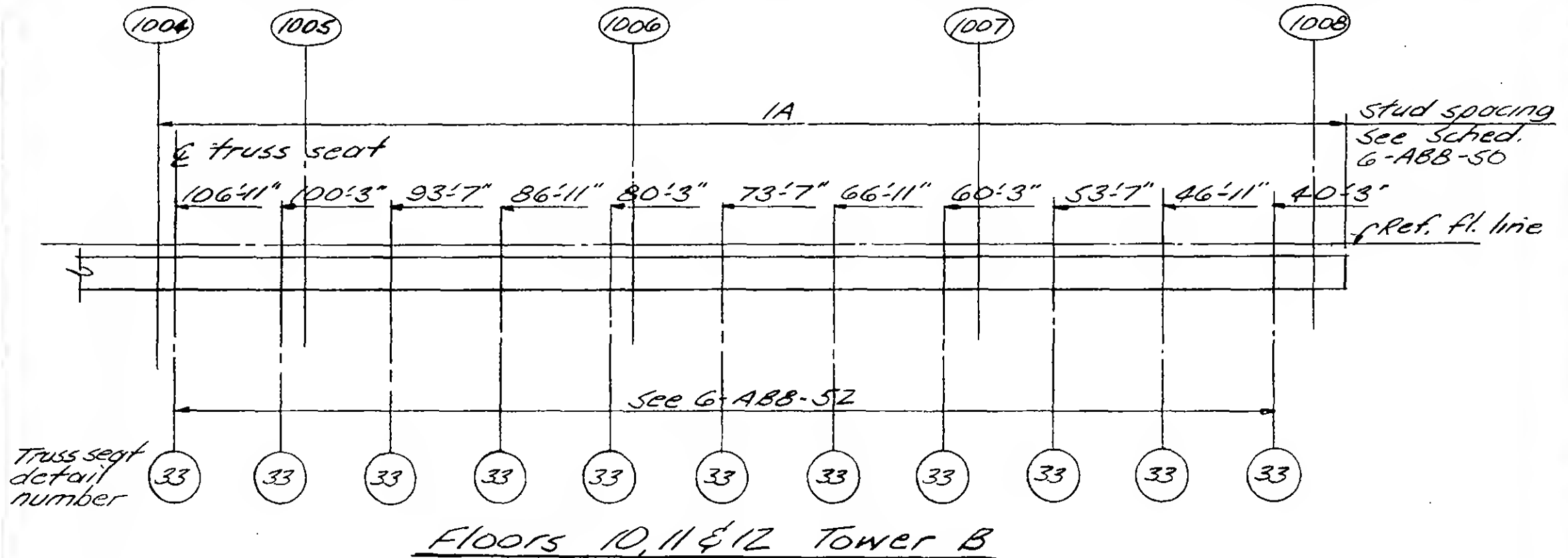
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CORE PERIMETER ELEVATION - FLOORS 10-40

DATE

9-18-68

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DRAWN

REVIEWED

6-ABB-5.1

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PROJECT

THE WORLD TRADE CENTER

TITLE

CORE PERIMETER ELEVATION FLOORS 10-33 & 35-40

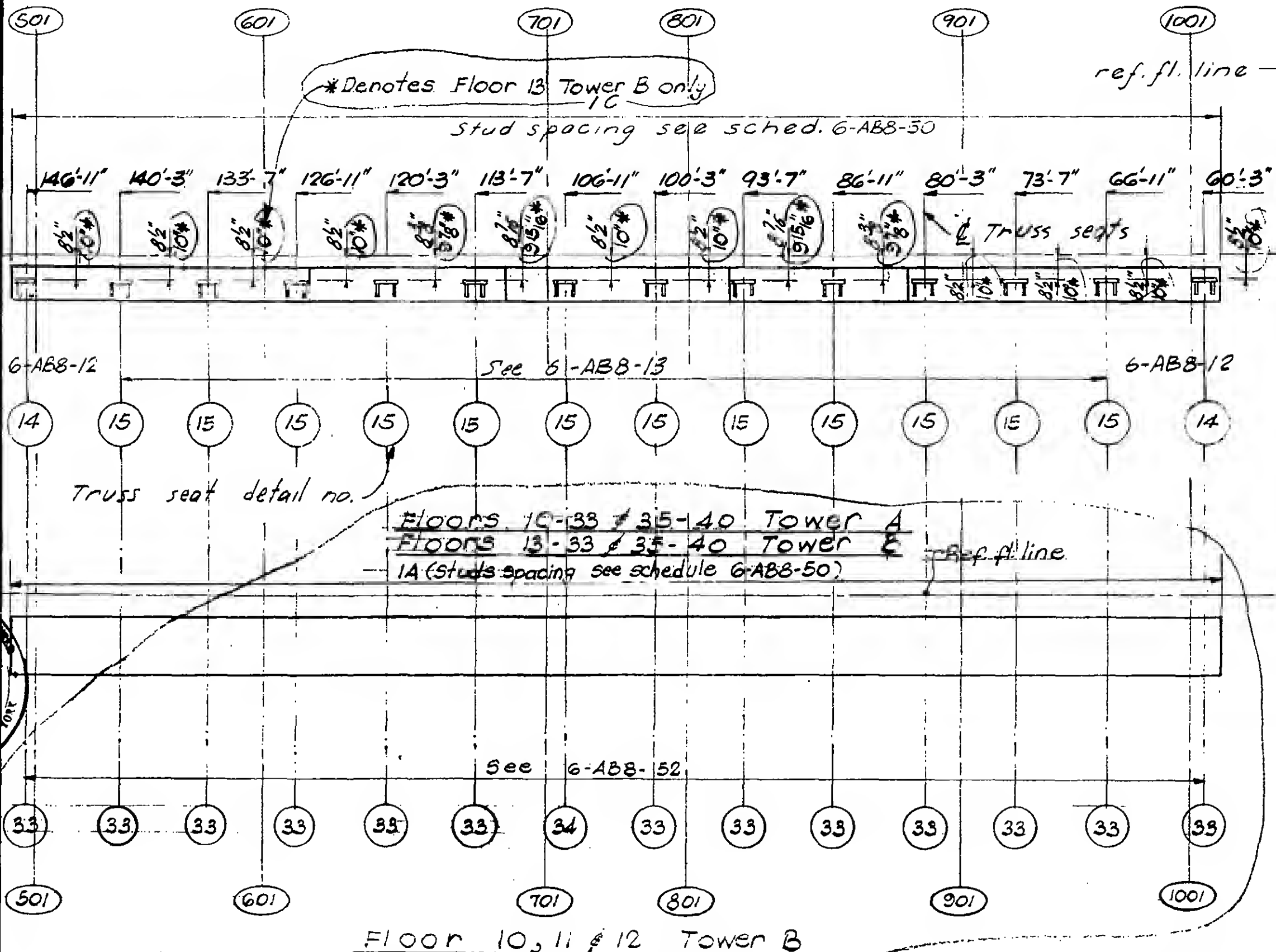
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9-6-67

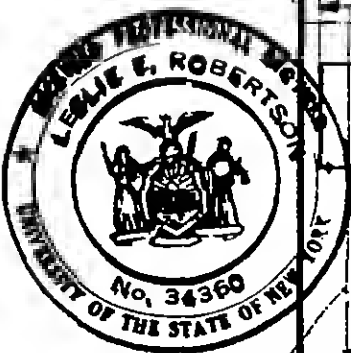
REVISIONS

11-22-67

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6-AB8-6



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PROJECT

THE WORLD TRADE CENTER

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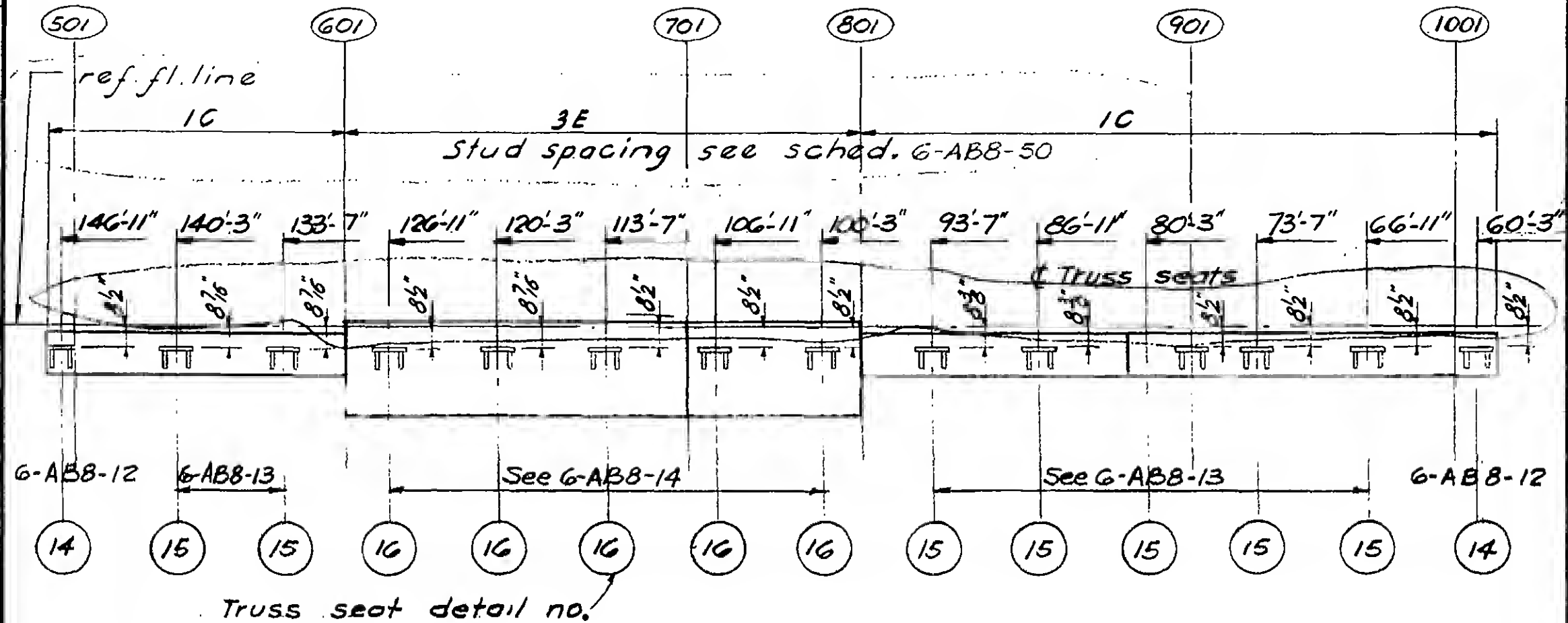
CORE PERIMETER ELEVATION-FLOOR 34

DATE

9-6-67

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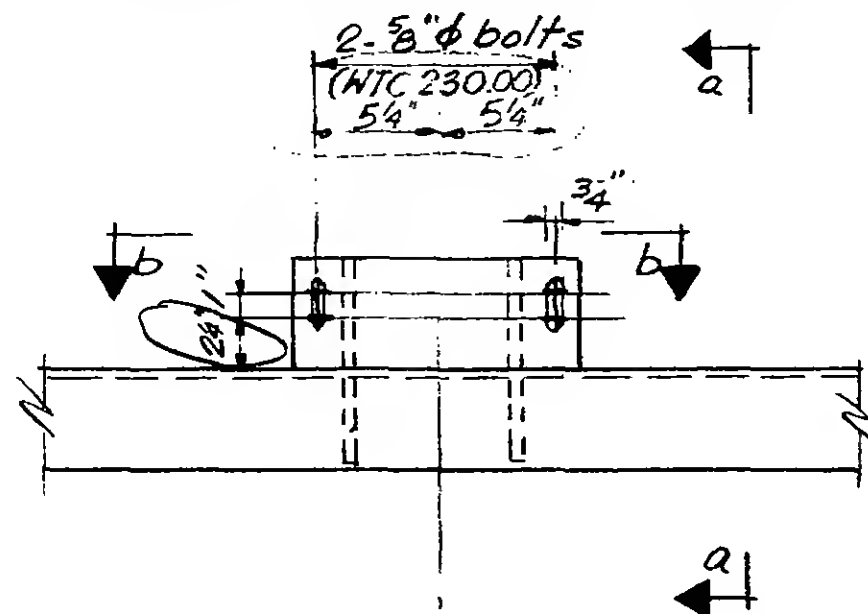


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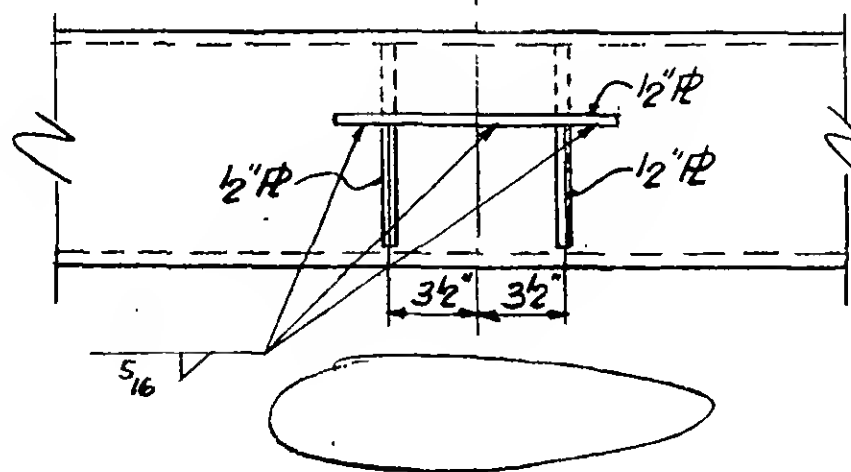
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REVISIONS

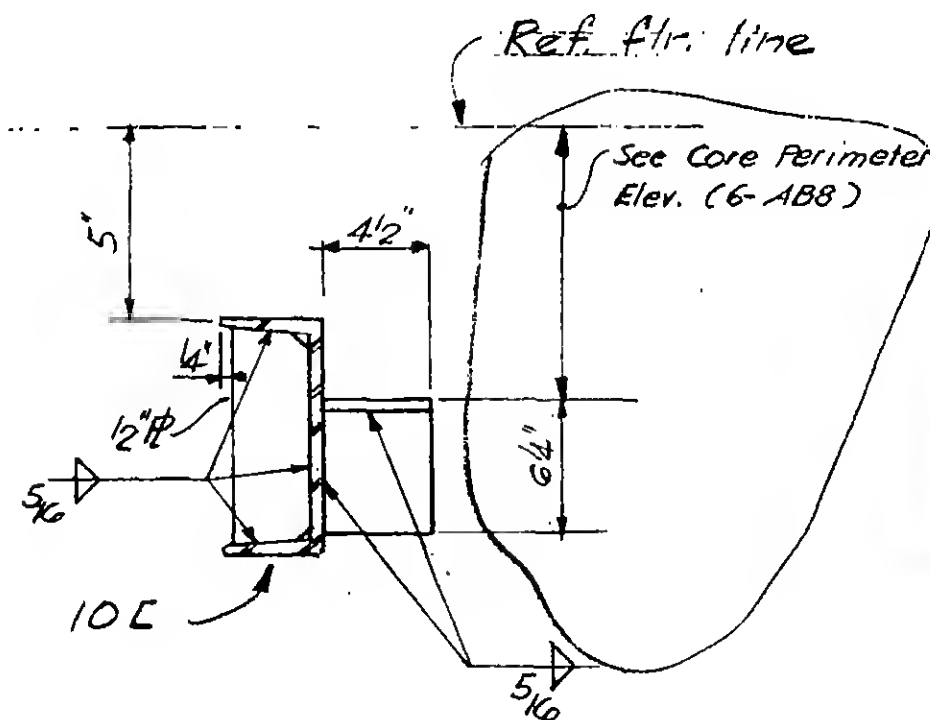
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Plan



Section b-b



Section a-a



PROJECT

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TITLE

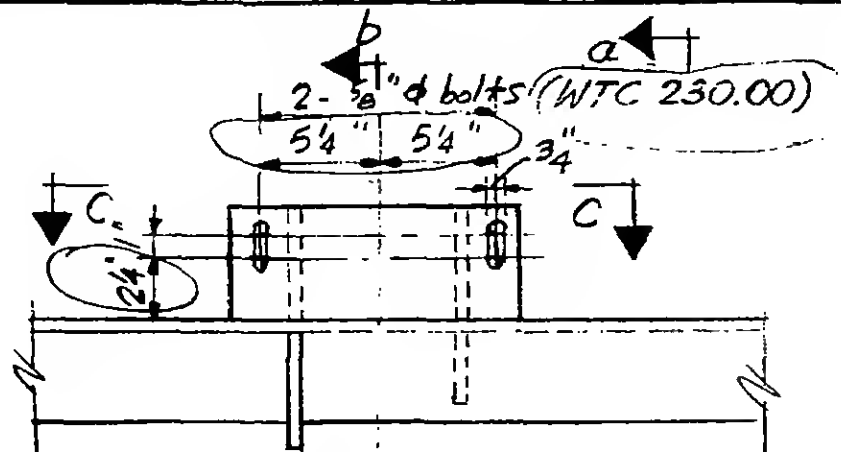
TRUSS SEAT DETAIL II

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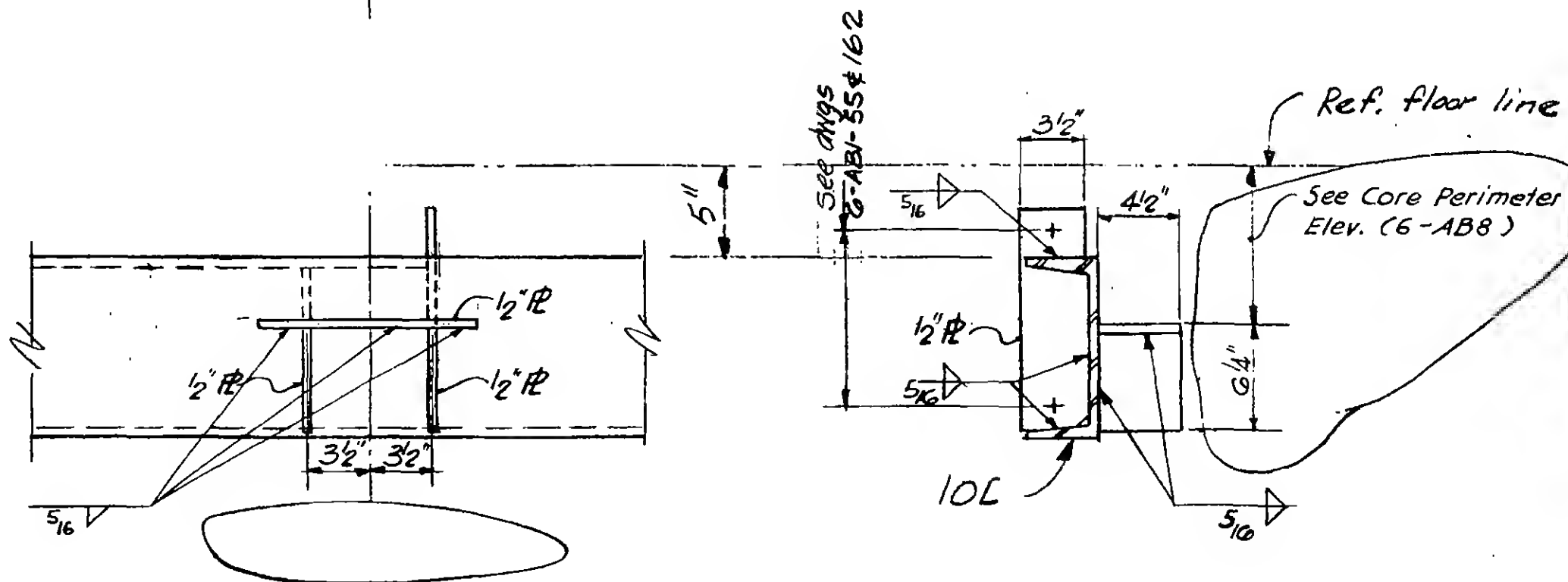
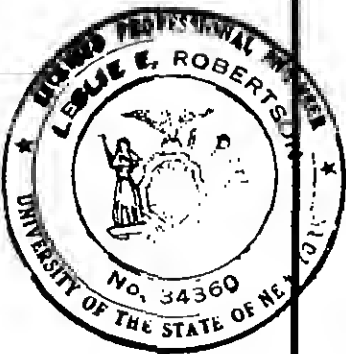
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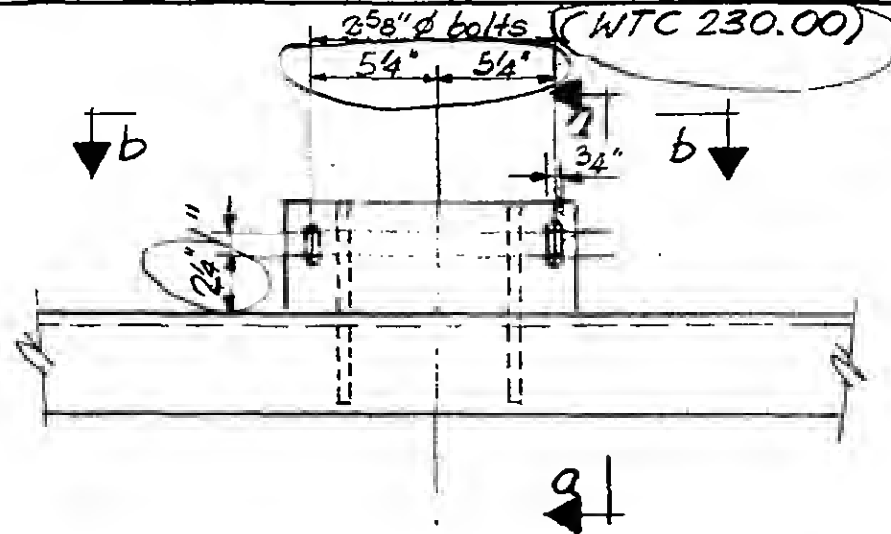
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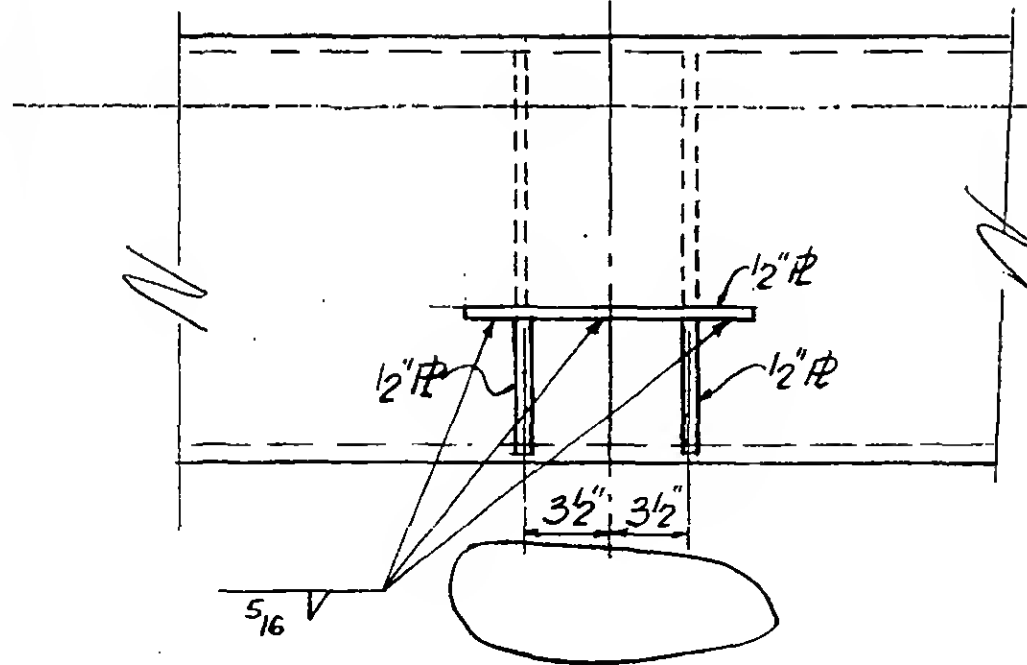
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Section a-a same as
shown for detail 10
see 6-AB8-8

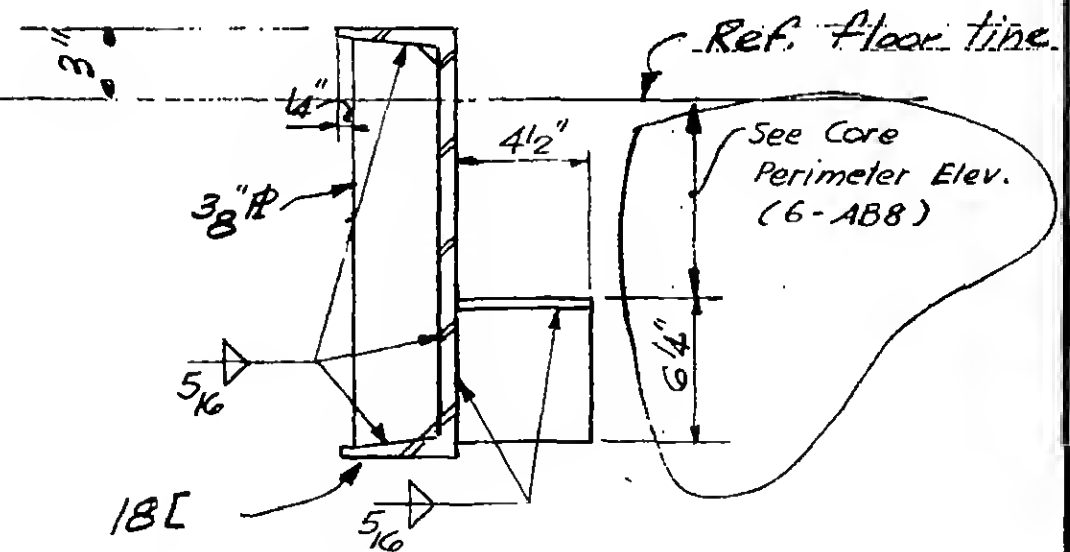
Section c-cSection b-b



Plan



Section b-b



Section a-a



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TITLE

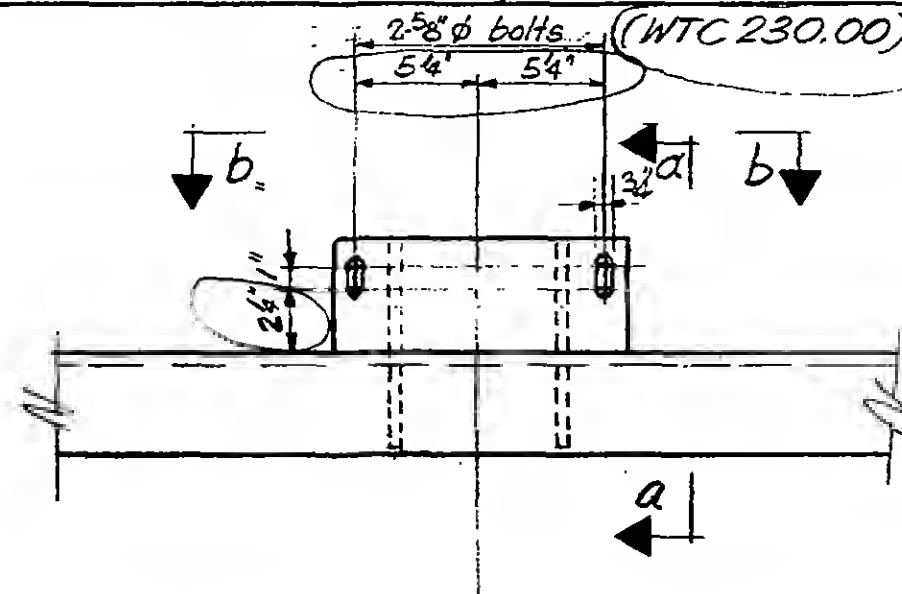
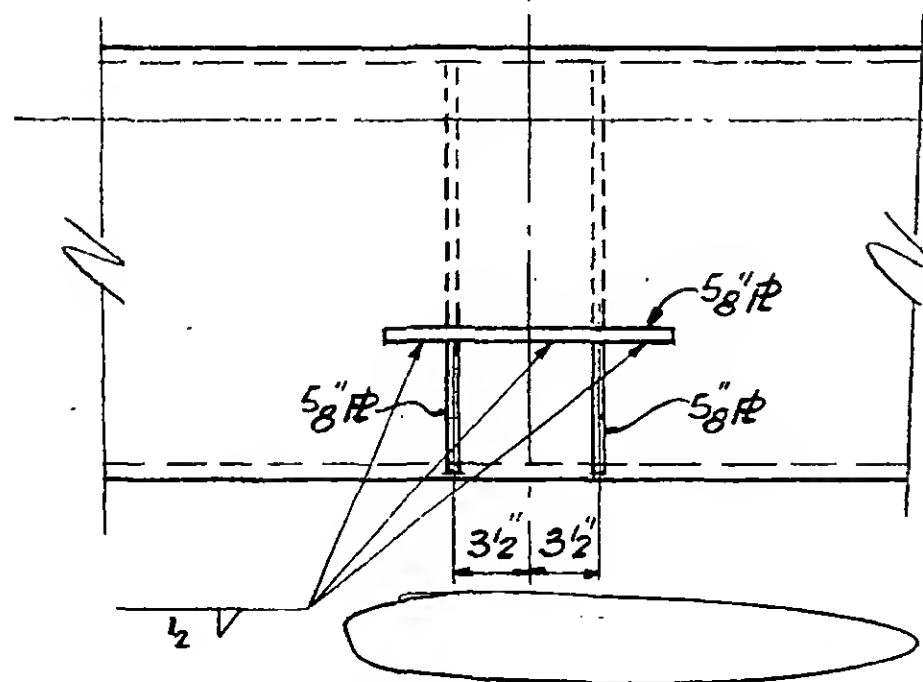
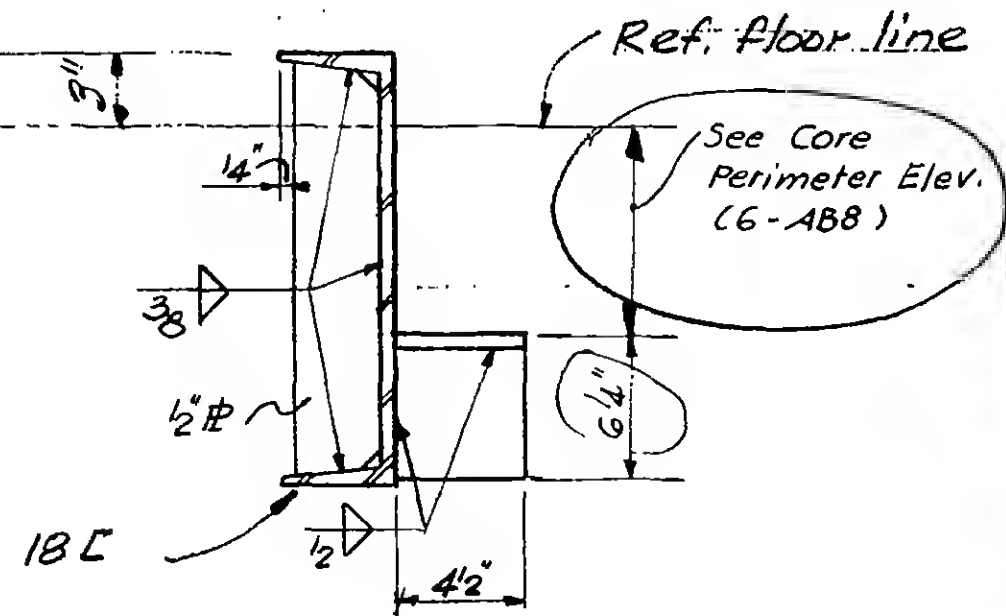
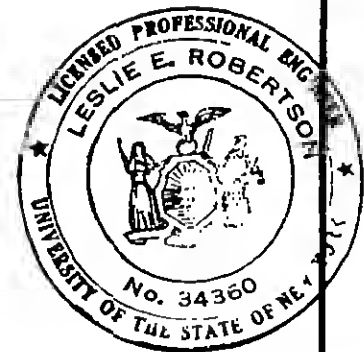
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9-6-67

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PlanSection b-bSection a-a

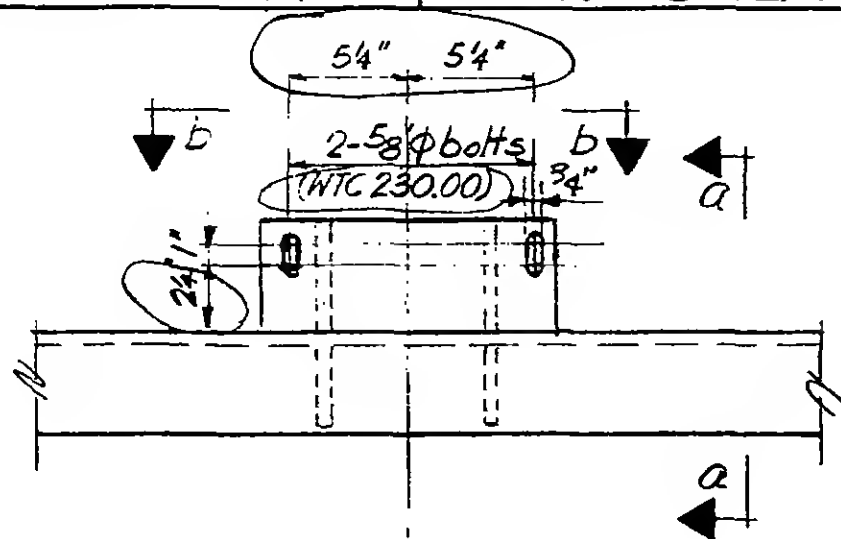
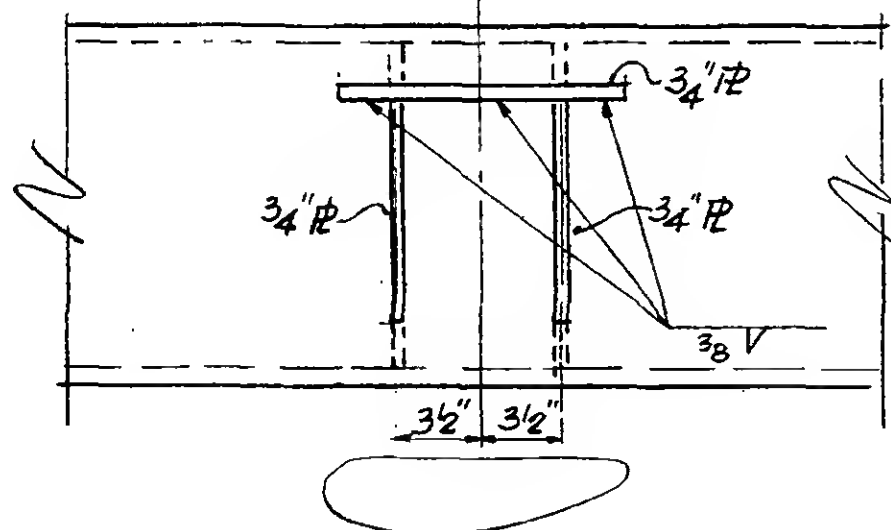
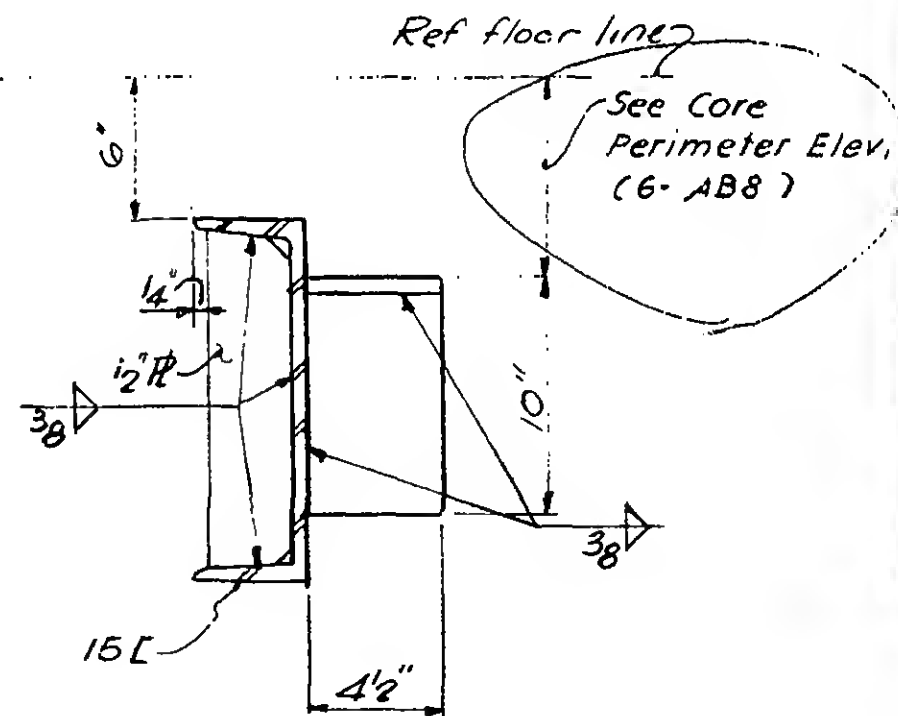
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TITLE TRUSS SEAT DETAIL 14

DATE 9-6-67

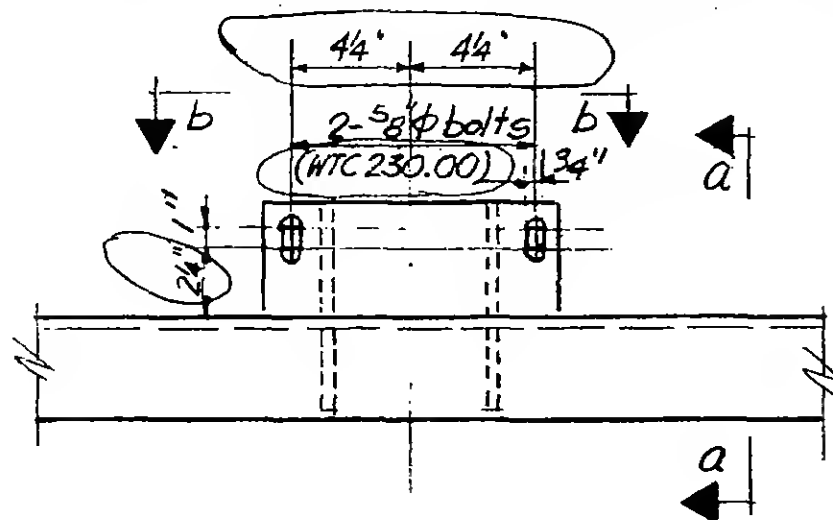
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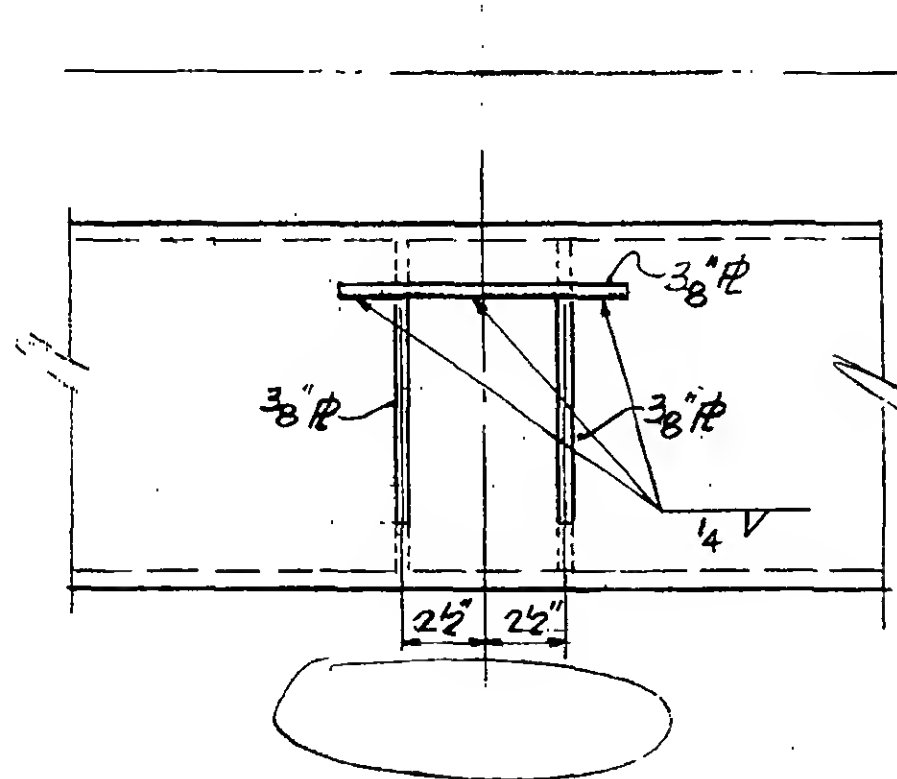
PlanSection b-bSection a-a

REVISIONS

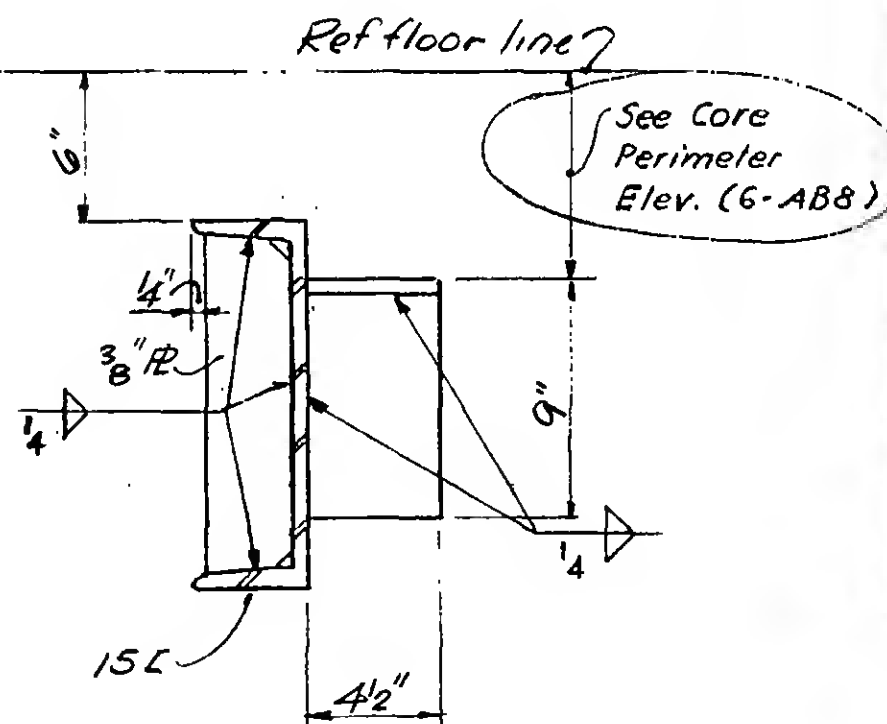
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Plain



Section b-b



Section a-a



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PROJECT

THE WORLD TRADE CENTER

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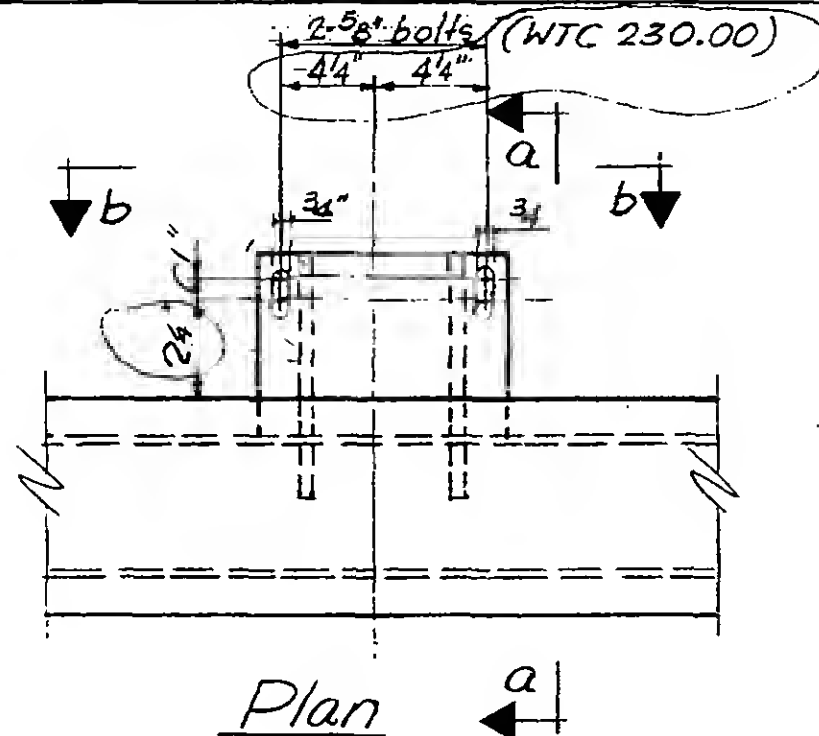
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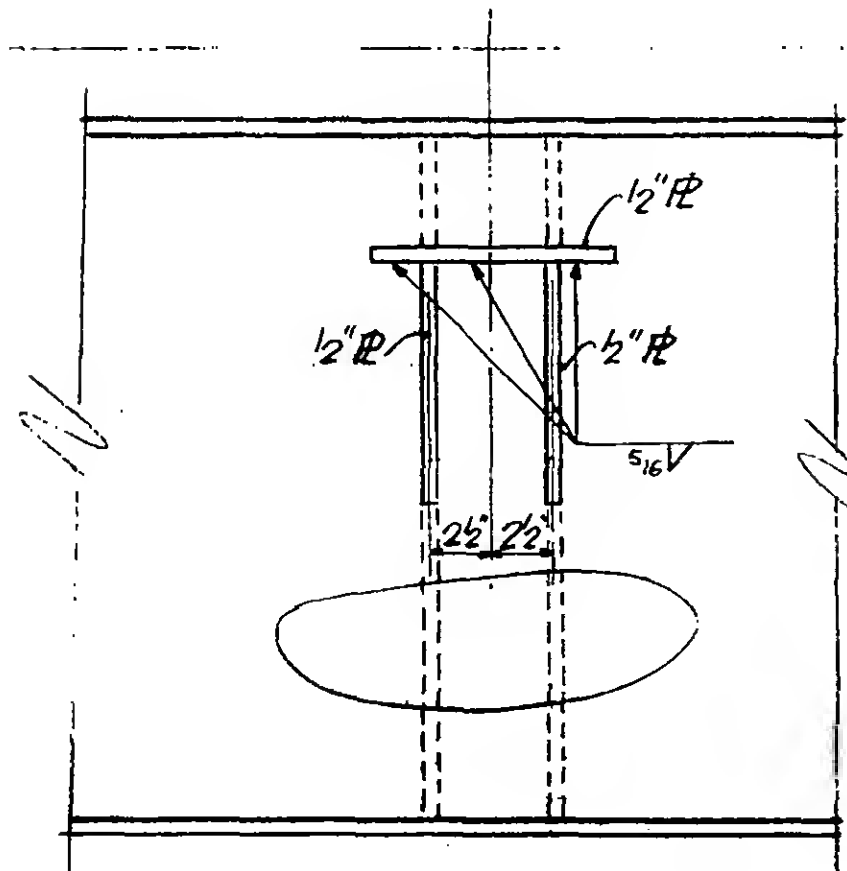
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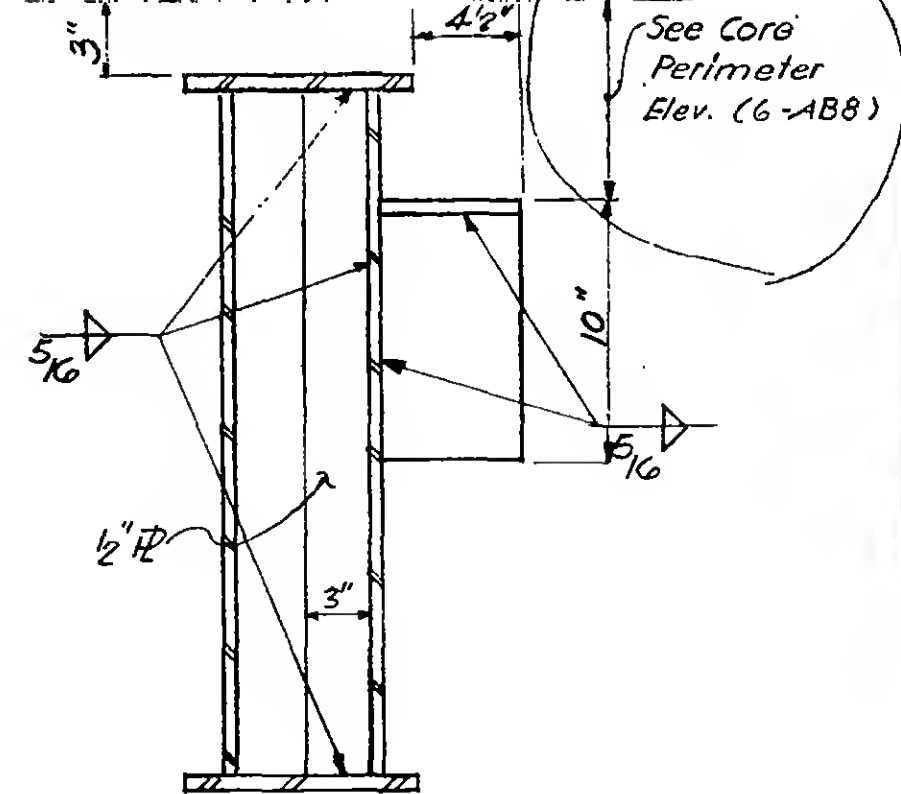


Plan



Section b-b

Ref floor line 7



Section a-a

6-AB8-14



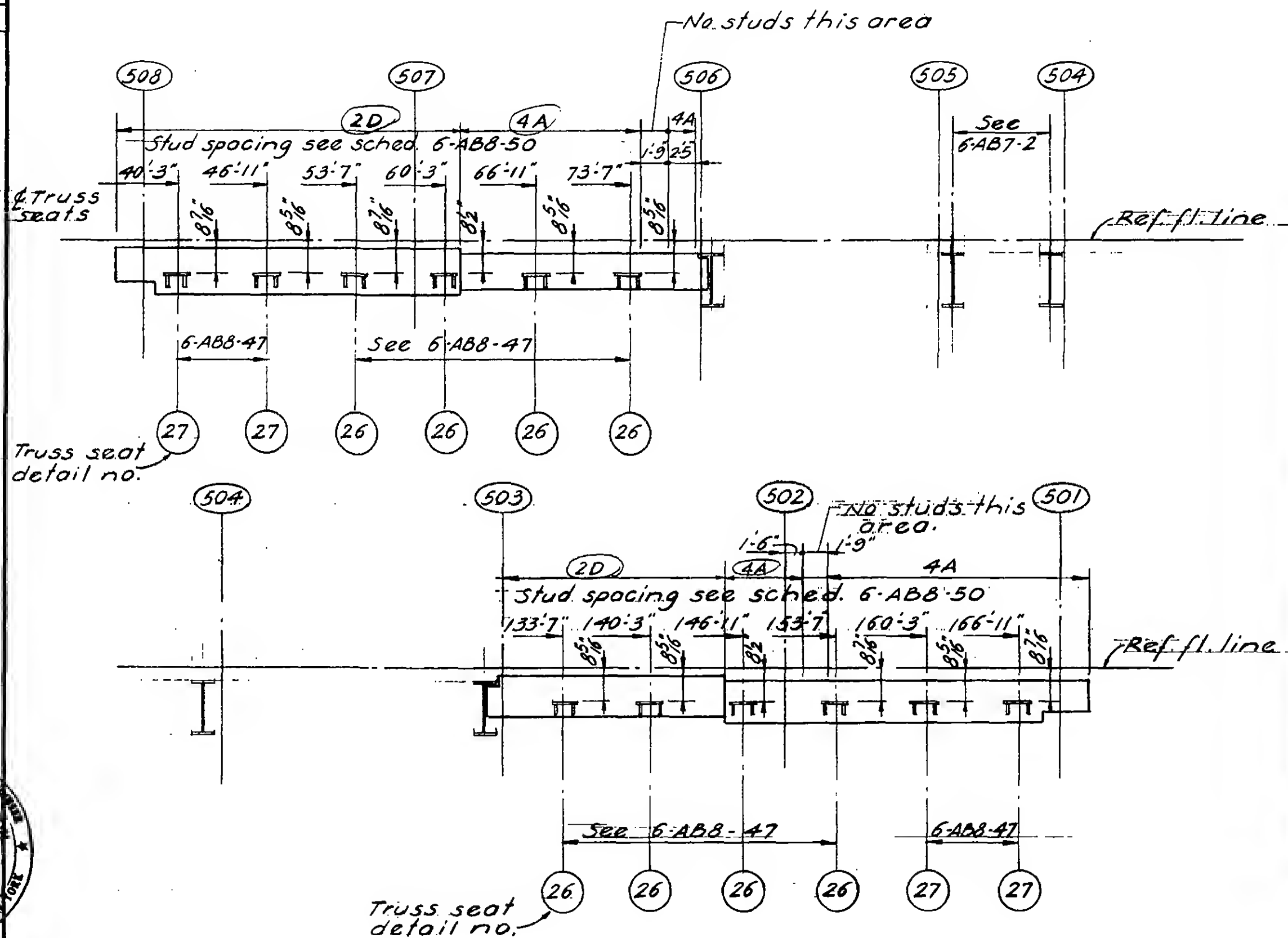
PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION - FLOOR 44 TOWER A

DATE 11-22-67

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PROJECT

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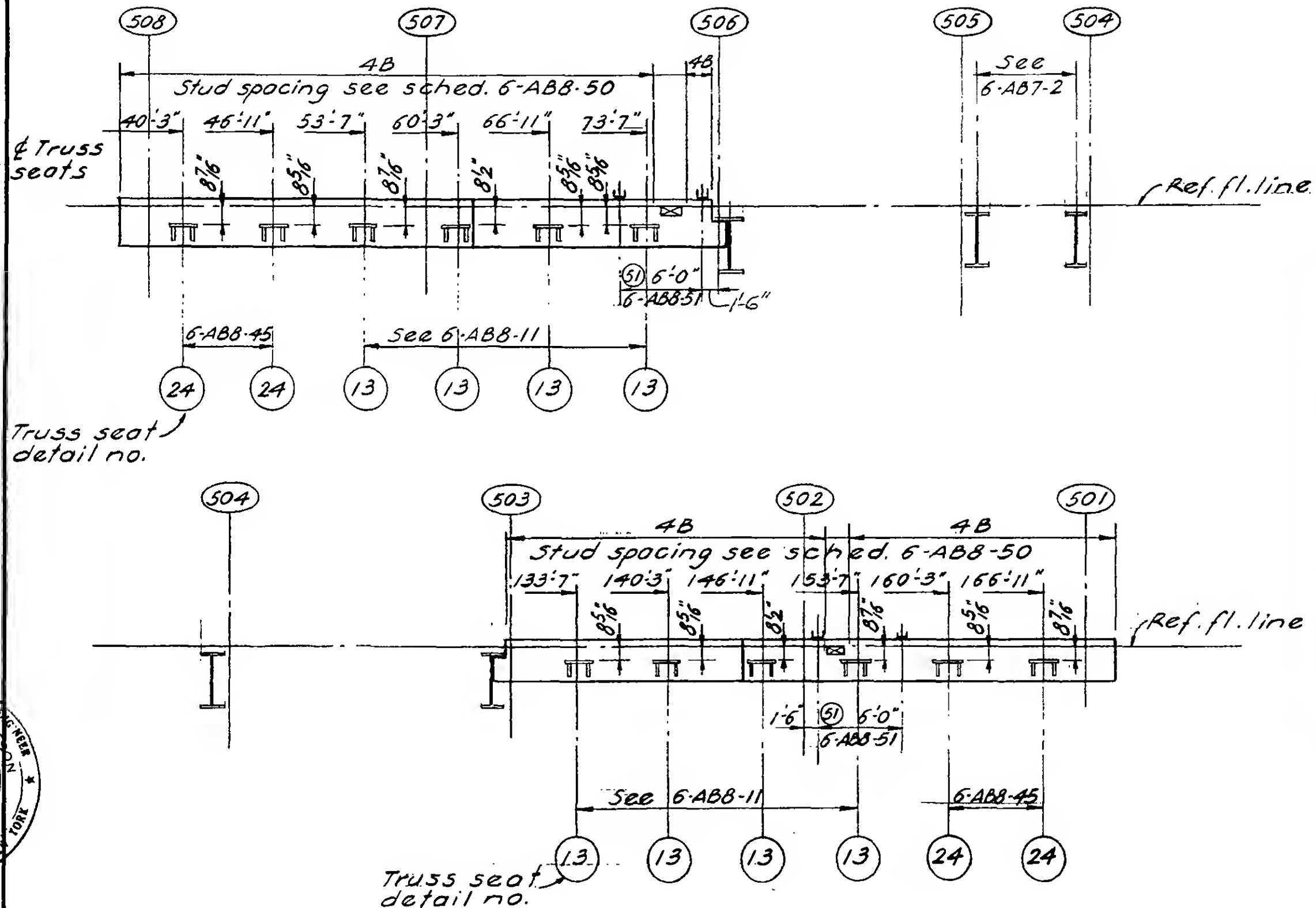
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CORE PERIMETER ELEVATION - FLOOR 44 TOWER B

DATE

11-22-67

REVISIONS



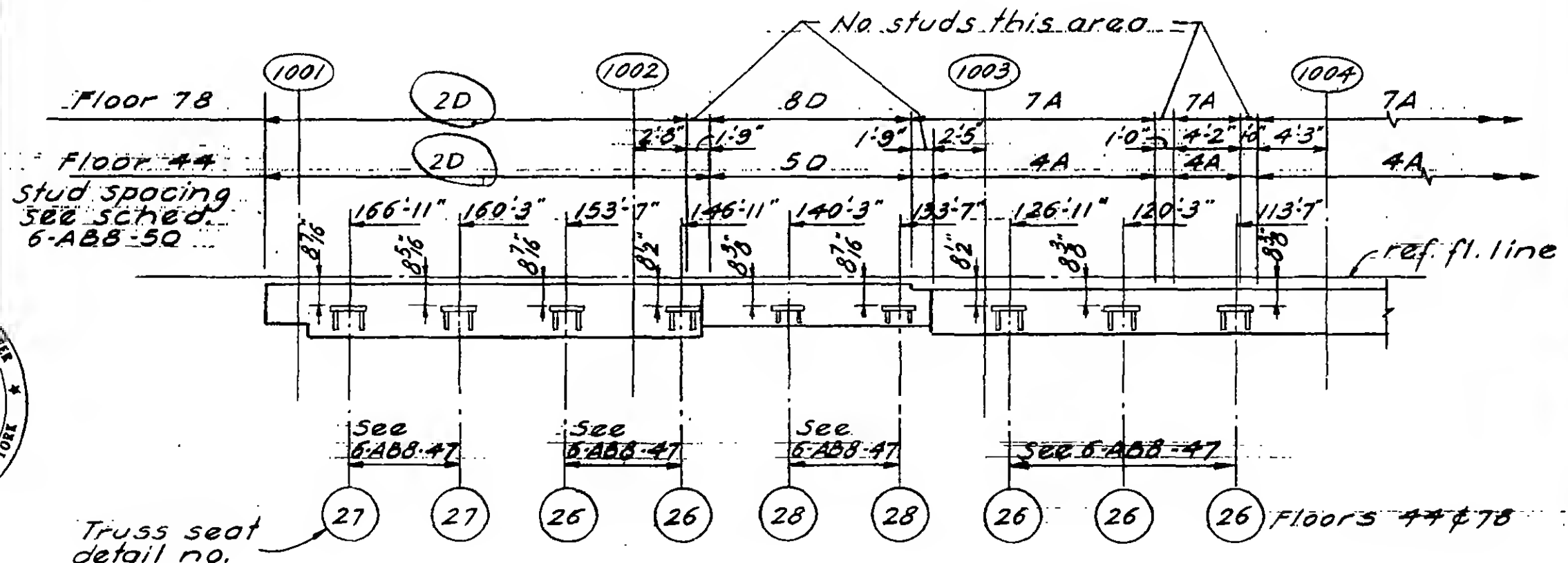
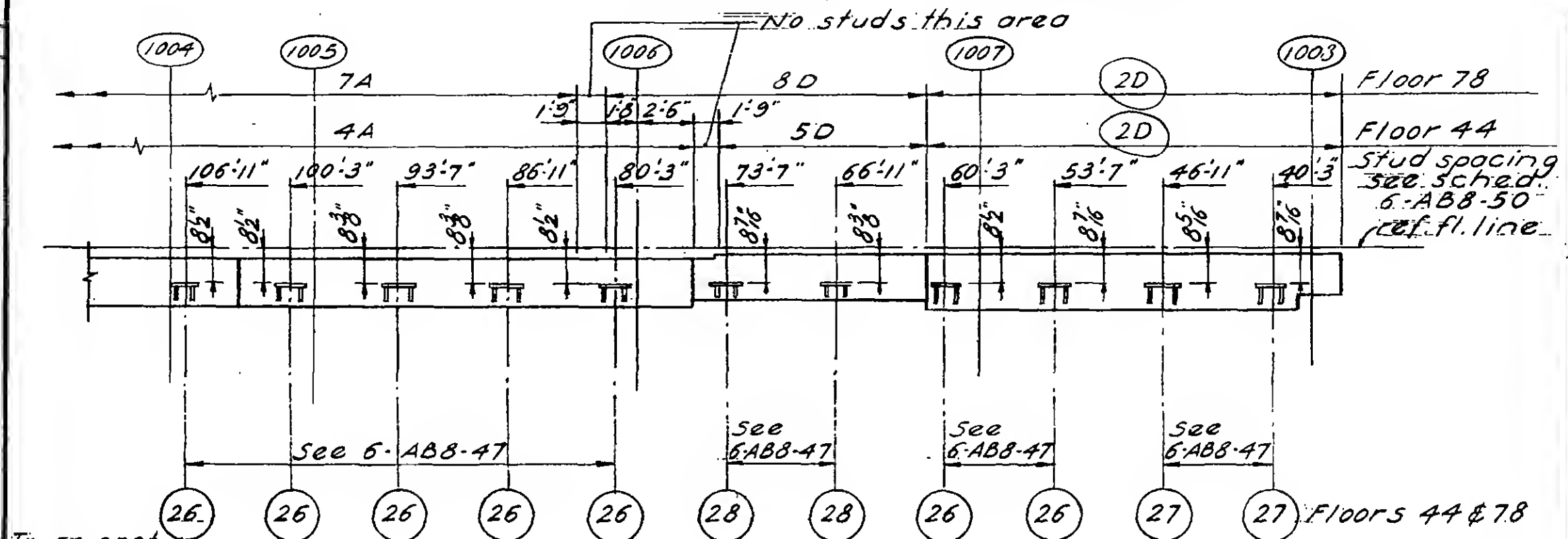
PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION FLOORS 44 TOWER A & 78

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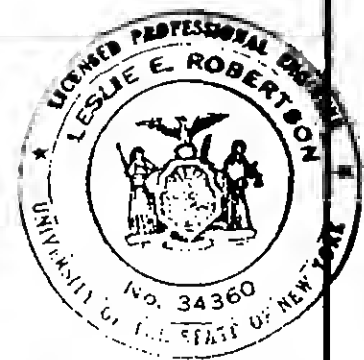
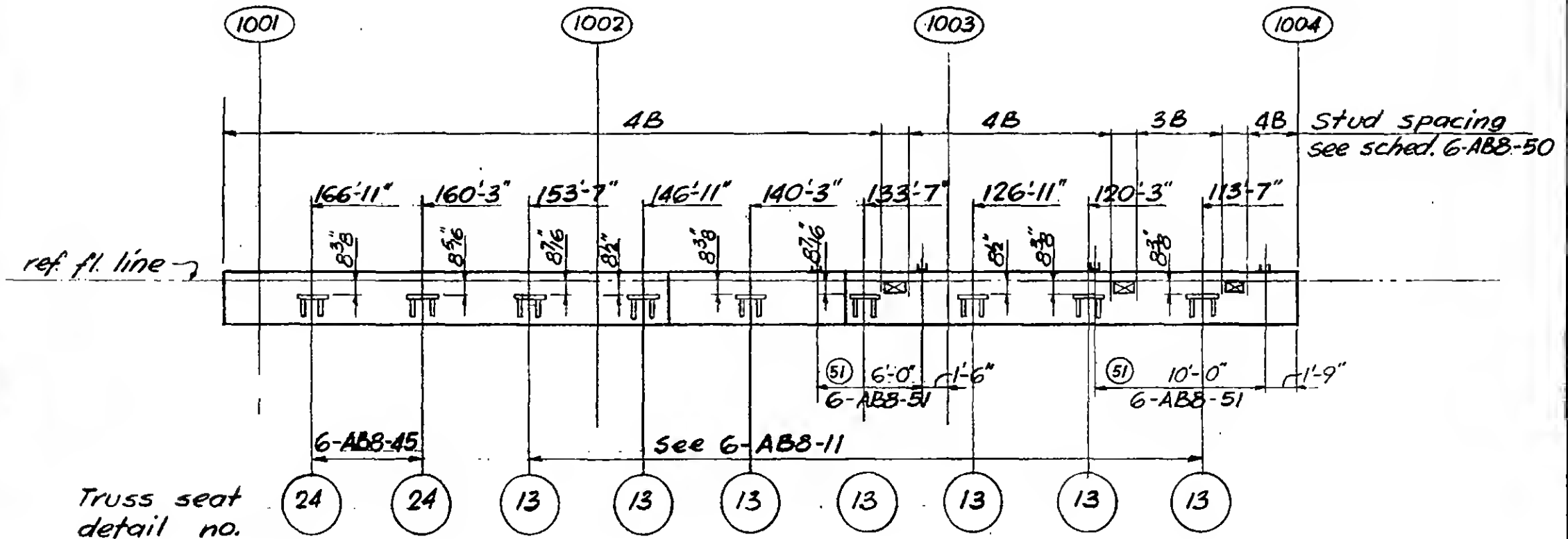
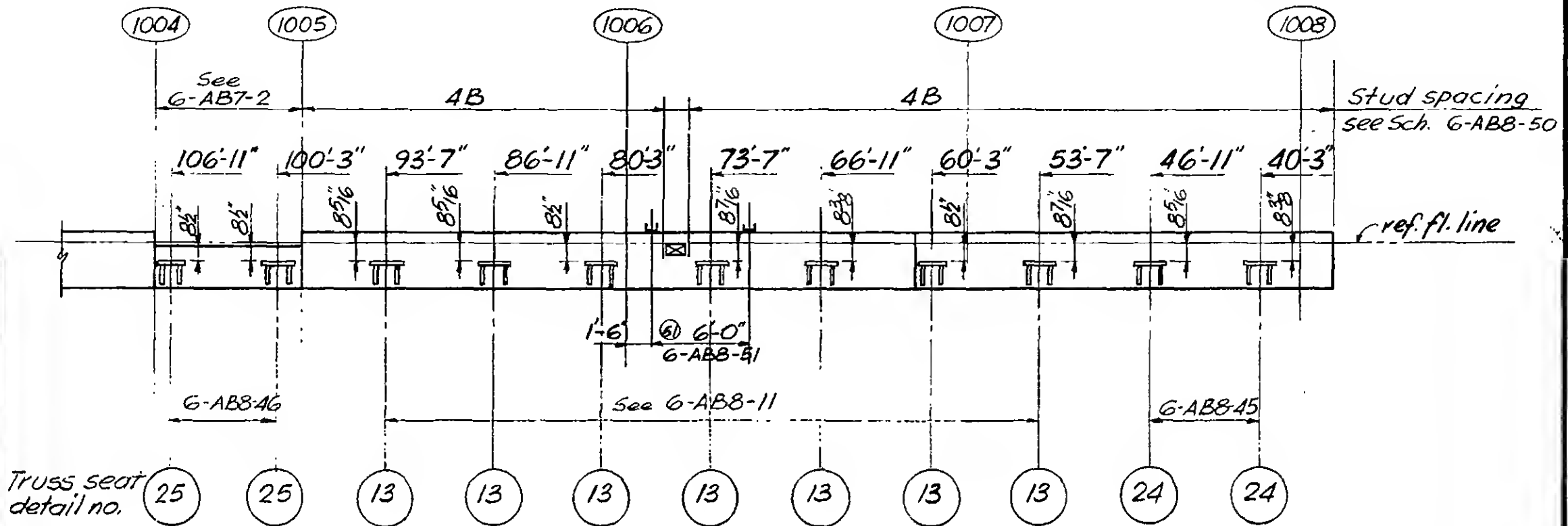
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CORE PERIMETER ELEVATION - FLOOR 44 TOWER B

DATE

11-22-67

REVISIONS



PROJECT

THE WORLD TRADE CENTER

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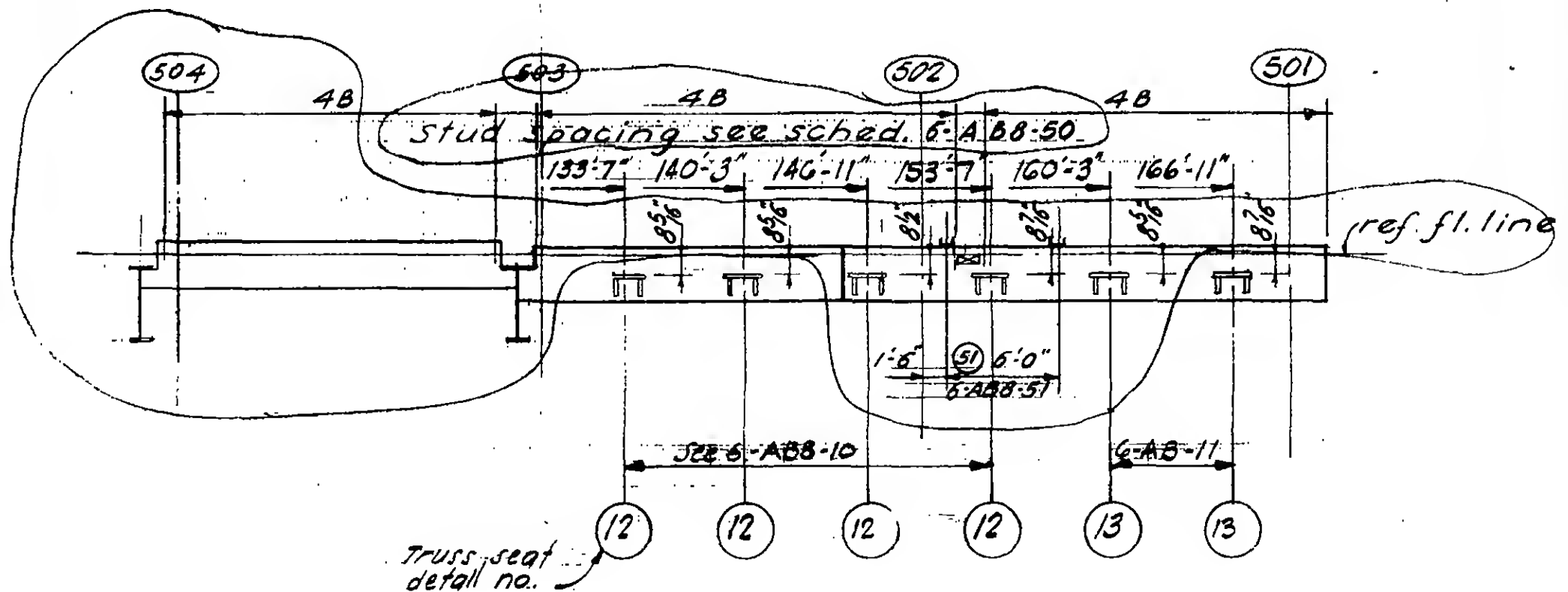
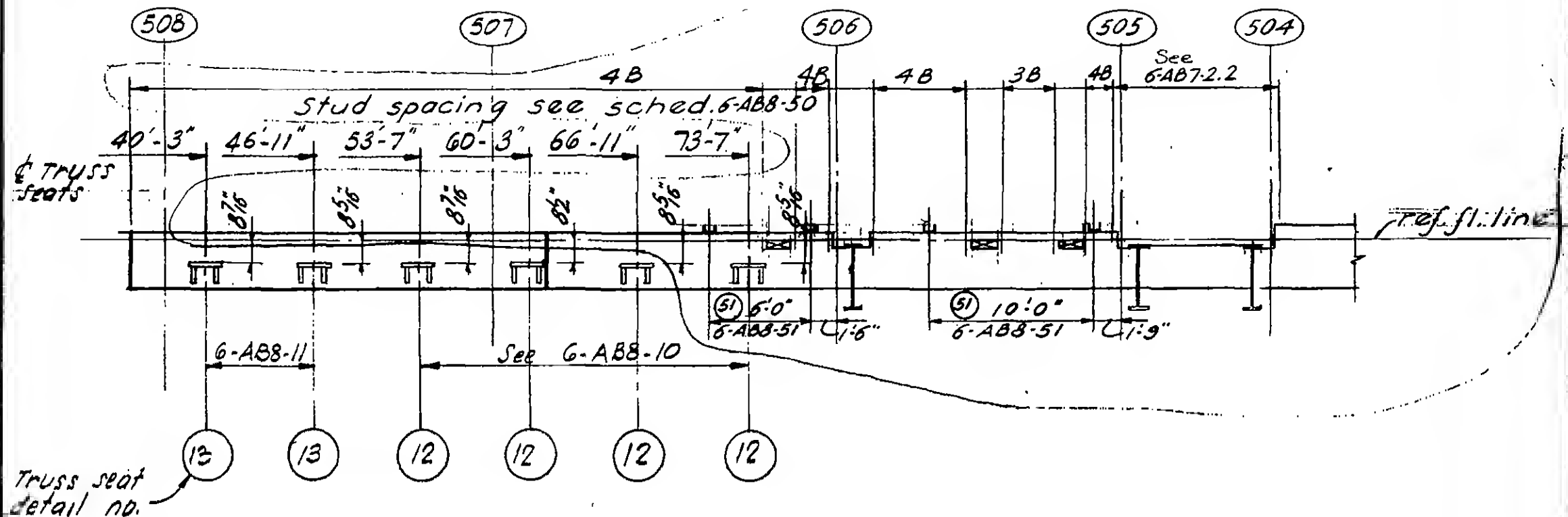
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DATE

9-25-67

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THE WORLD TRADE CENTER

TITLE

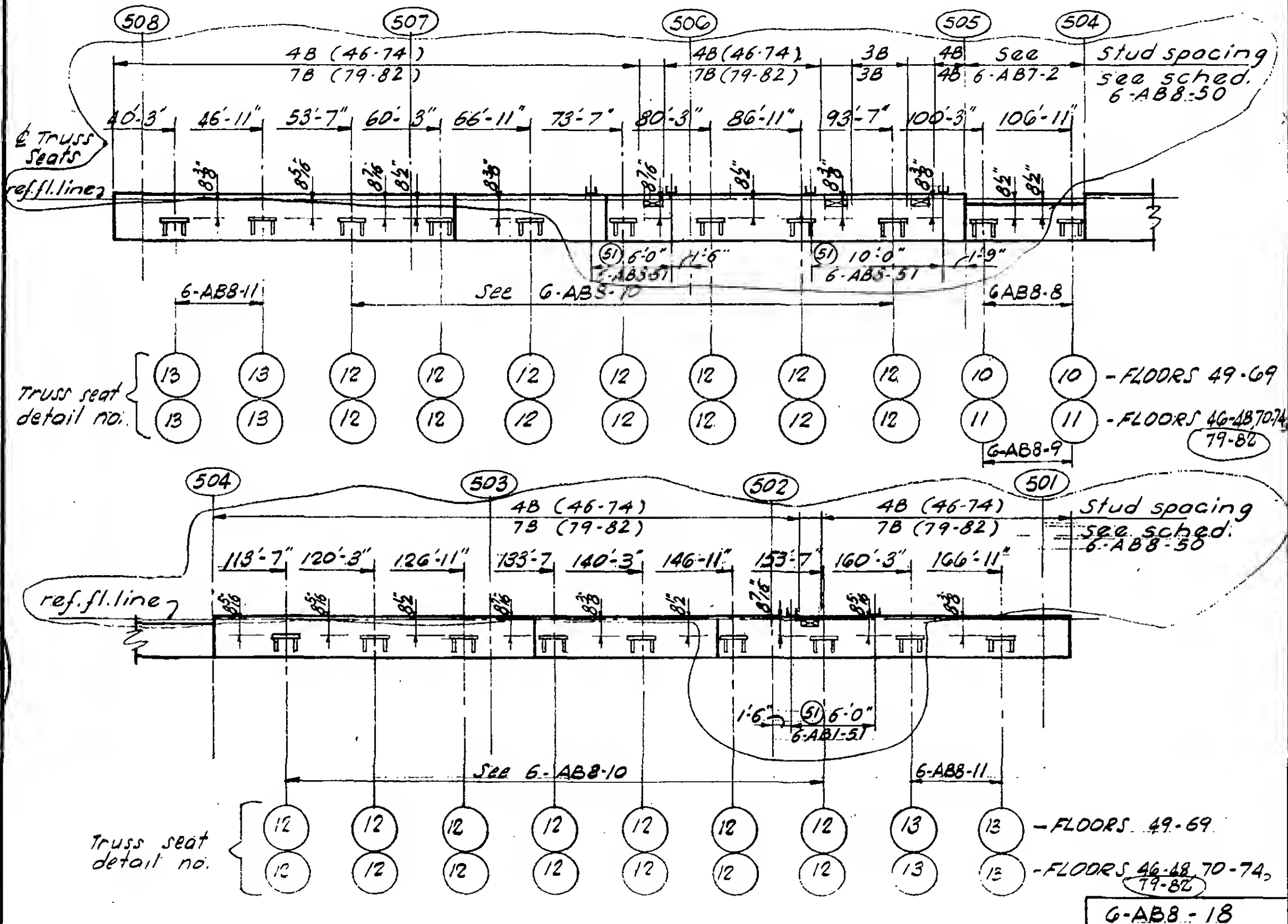
CORE PERIMETER ELEVATION - FLOORS 46-74, 79-82

DATE

9-25-67

REVISIONS

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PROJECT

THE WORLD TRADE CENTER

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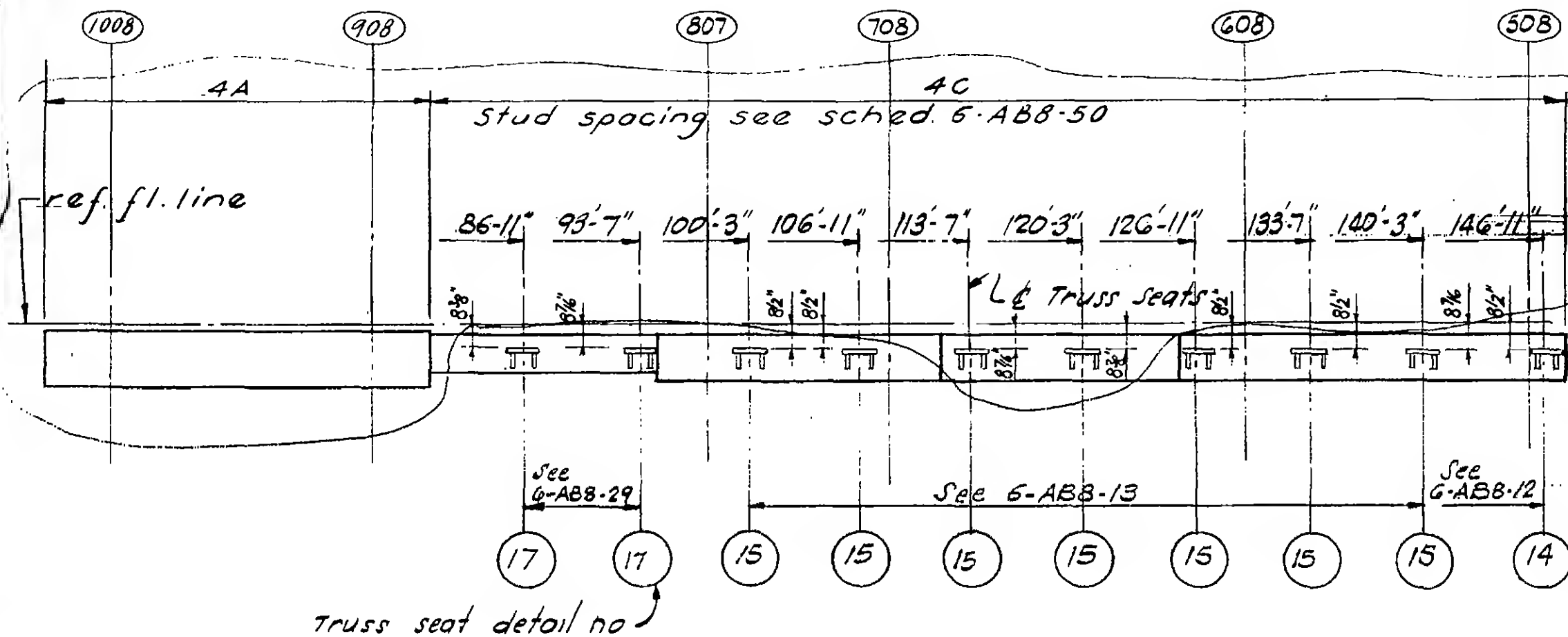
CORE PERIMETER ELEVATION - FLOORS 46, 48, 49

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REVISIONS

11-22-67



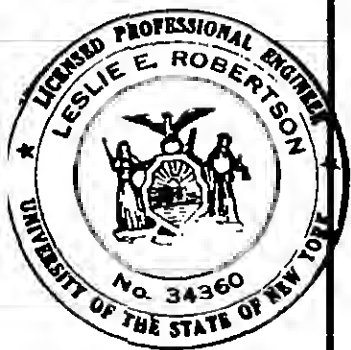
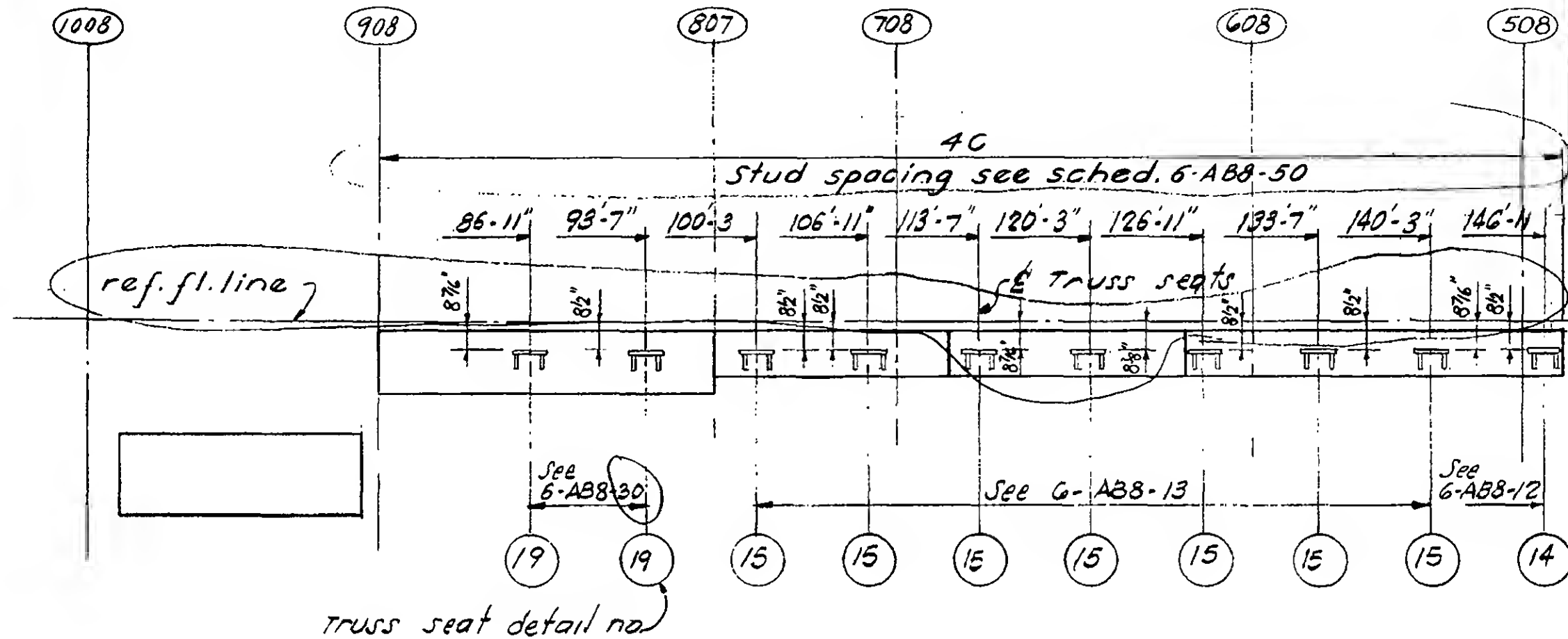
PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION - FLOORS 47

DATE 9-25-67

REVISIONS

11-22-67



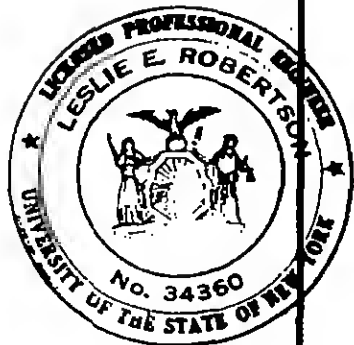
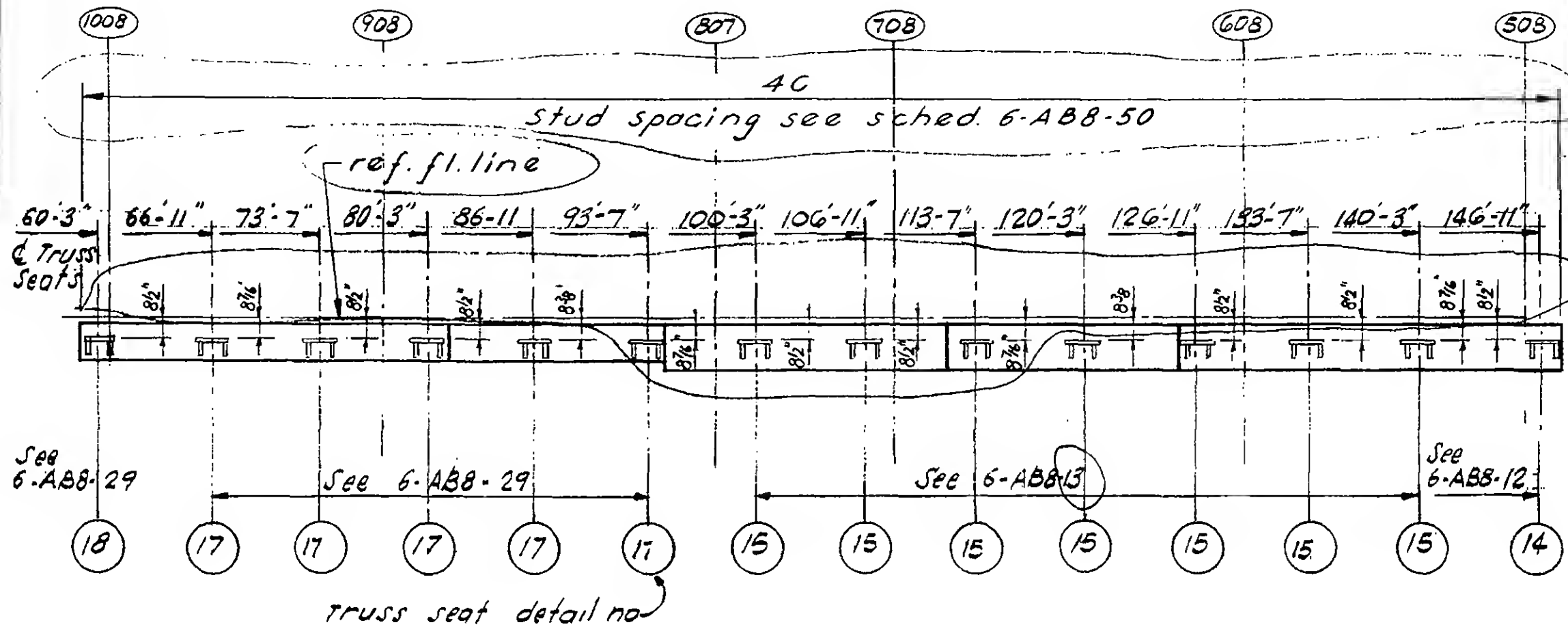
PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION - FLOORS 50-55, 57-74

DATE 9-25-67

REVISIONS

11-22-67



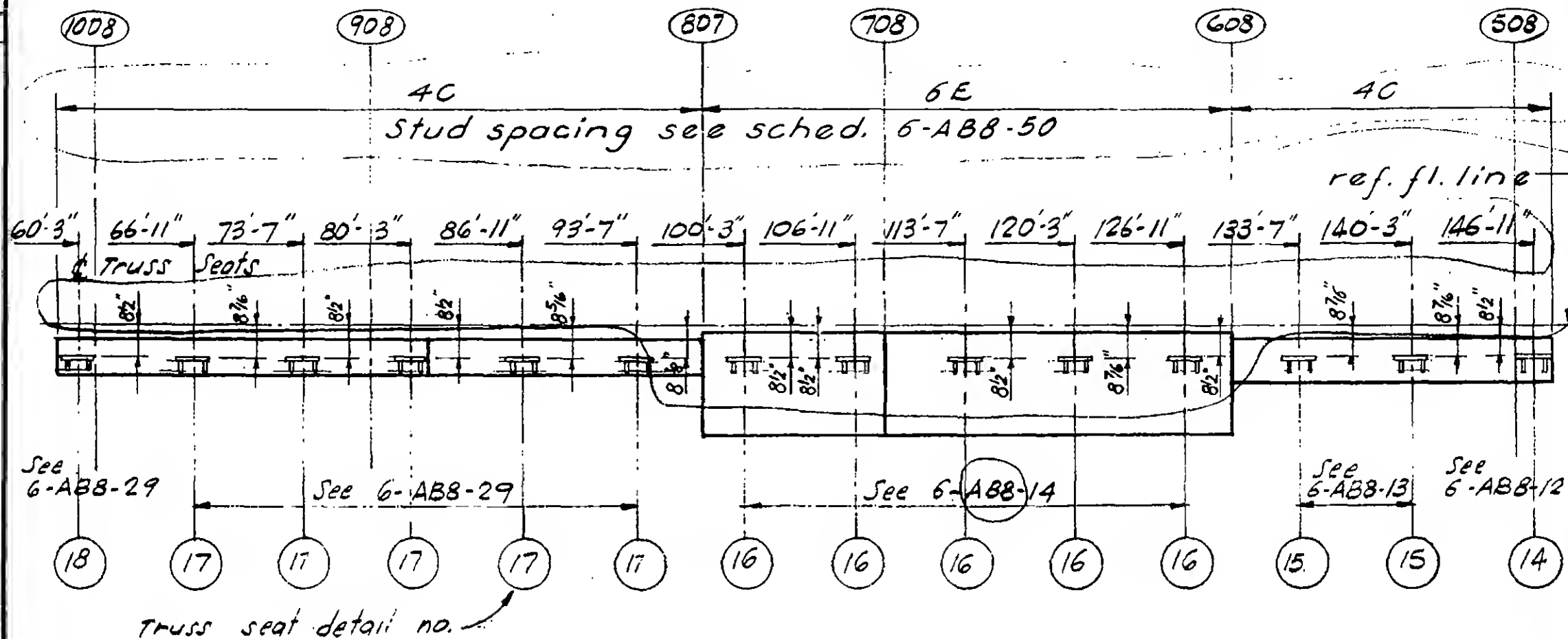
Structural & Civil Engineers

TITLE CORE PERIMETER ELEVATION - FLOOR 56.

DATE 9-25-67

REVISIONS

11-22-67



6-ABB-22

Structural & Civil Engineers

PROJECT

THE WORLD TRADE CENTER

TITLE

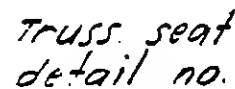
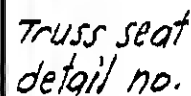
^ECORE PERIMETER ELEVATION - FLOORS 45-48

DATE _____

9-25-67

REVISIONS

11-22-67



C-AB8-23

PROJECT

THE WORLD TRADE CENTER

TITLE

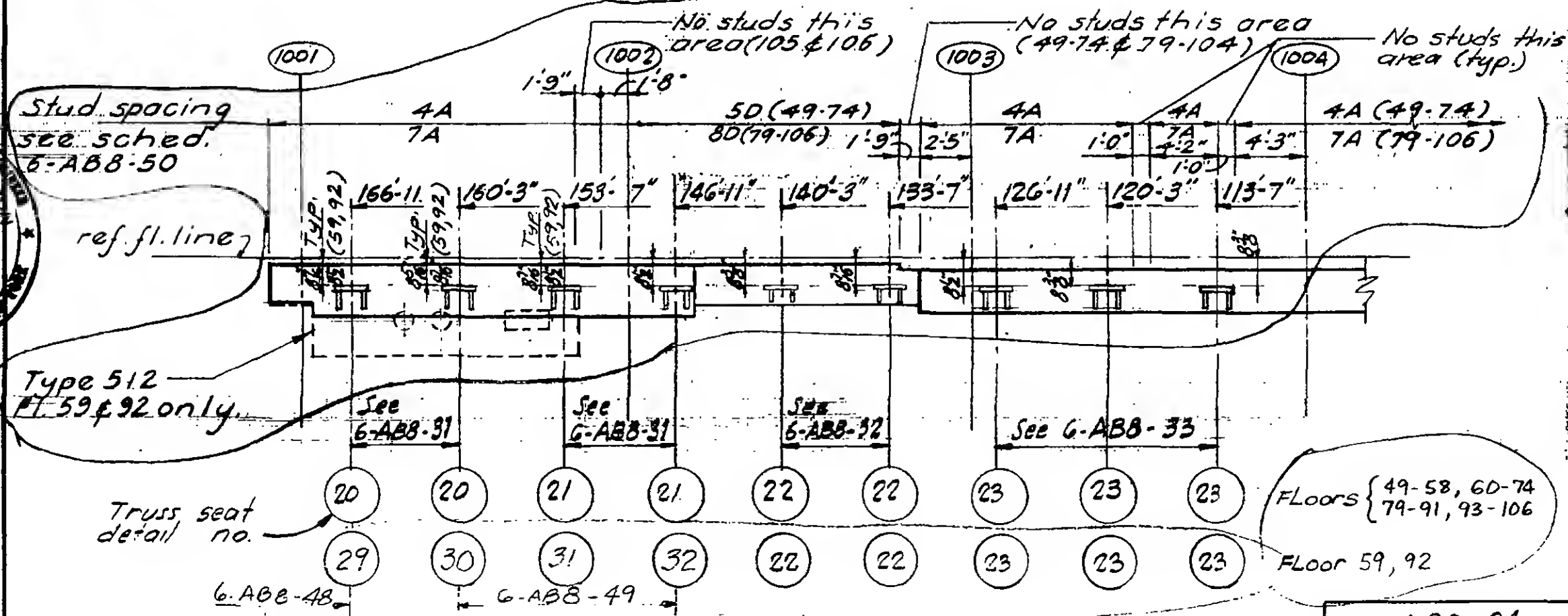
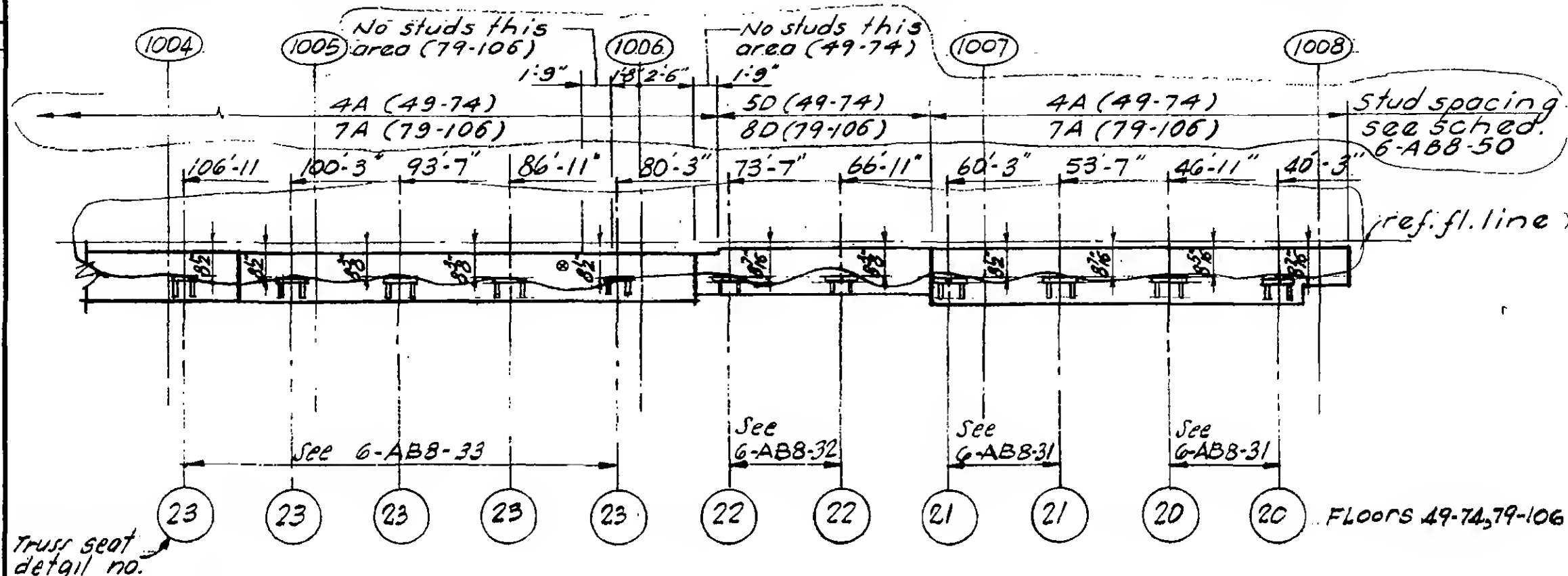
CORE PERIMETER ELEVATION - FLOORS 49-74, 79-106

DATE

9-25-67

REVISIONS

11-22-67



SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

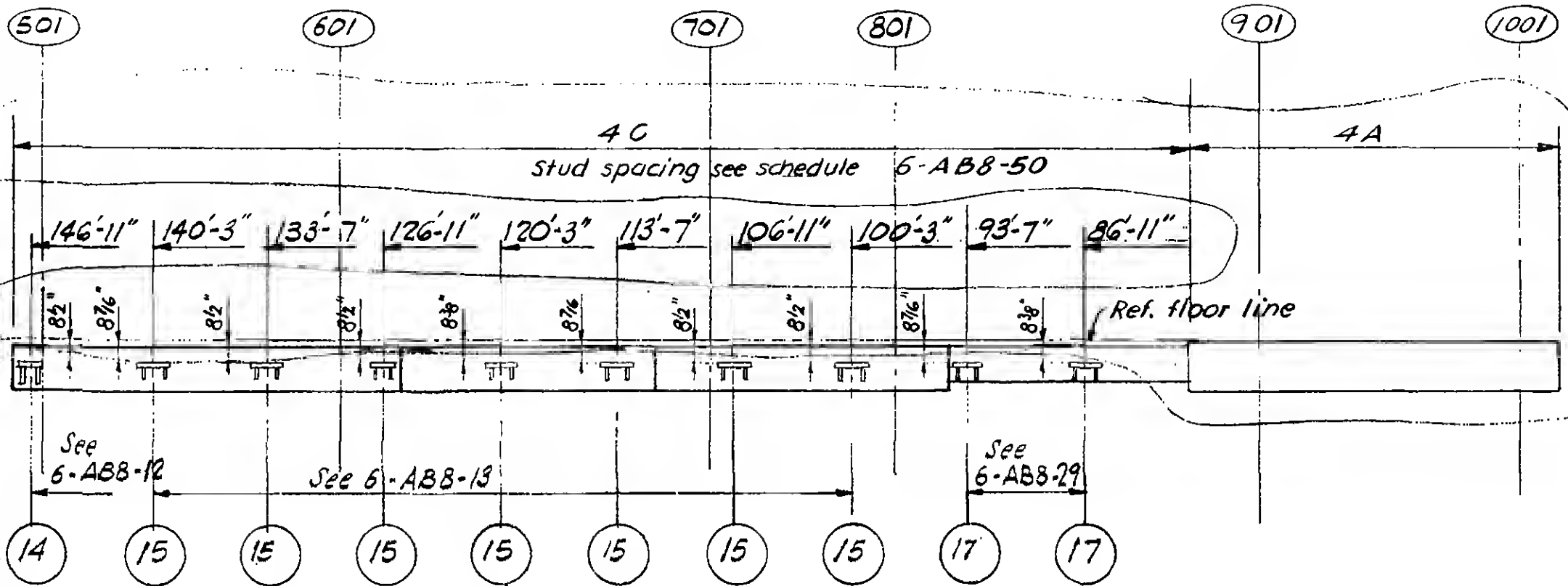
PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION FLOORS 45, 46, 48, 49

DATE 9-25-67

REVISIONS

11-22-67



Truss seat detail no.



6-AB8-25

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

Structural & Civil Engineers

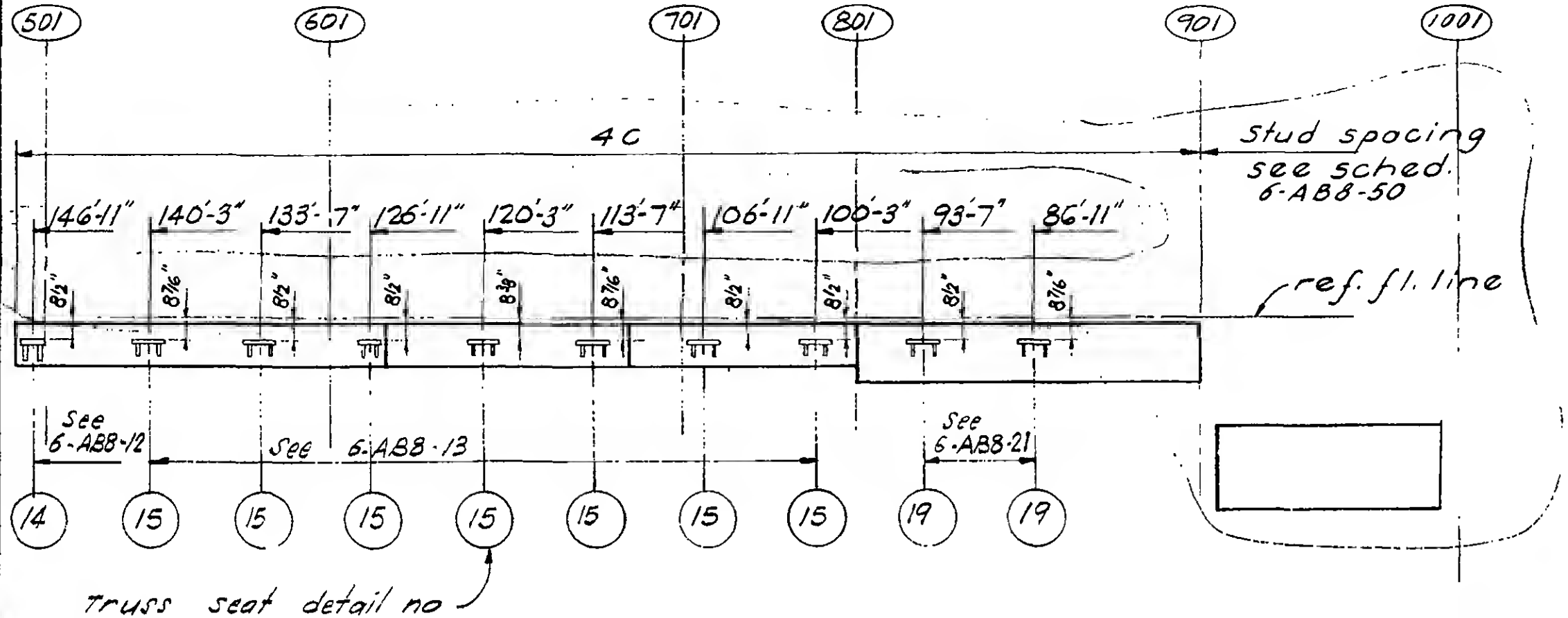
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TITLE CORE PERIMETER ELEVATION FLOORS 47

DATE 9-25-67

REVISIONS

11-22-67



6-ABB-26

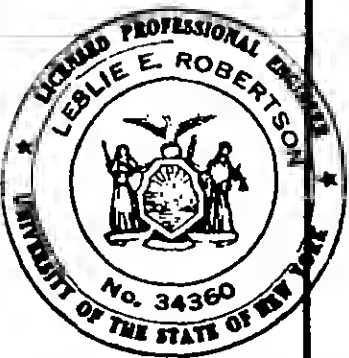
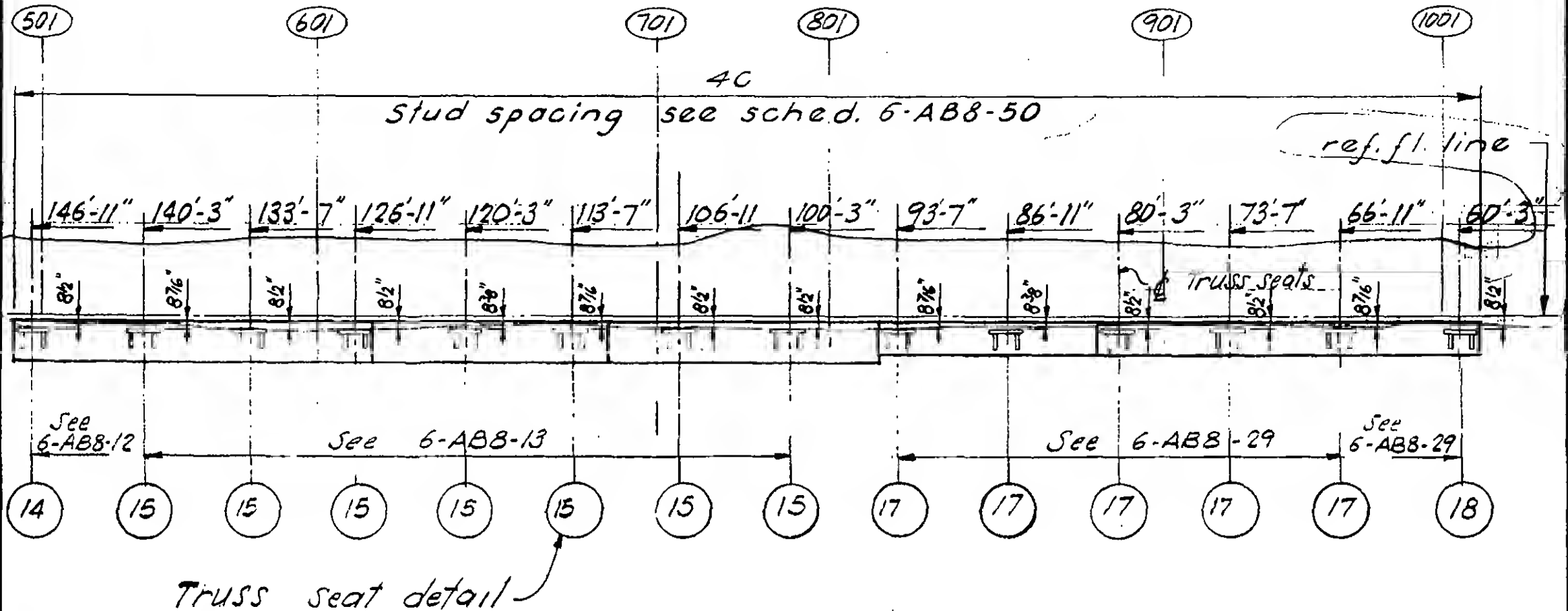
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TITLE CORE PERIMETER ELEVATION FLOORS 50-68, 70-74

DATE 9-25-67

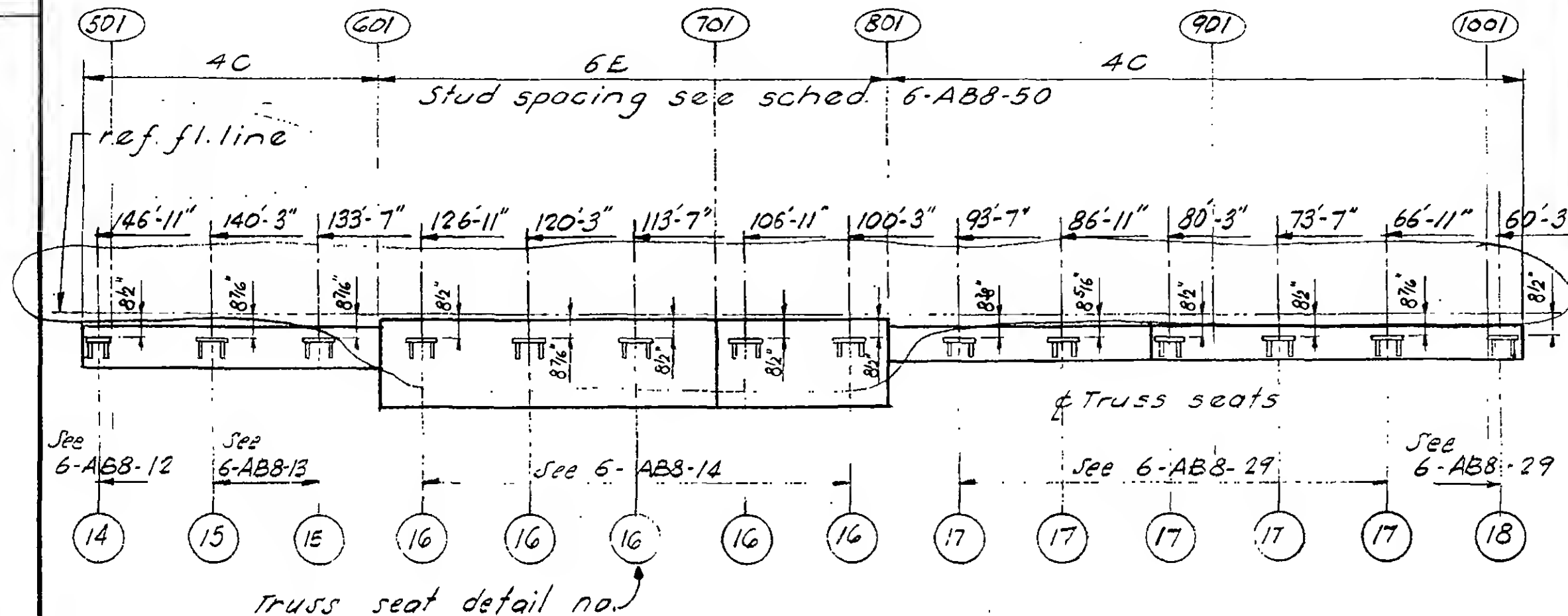
REVISIONS

11-22-67



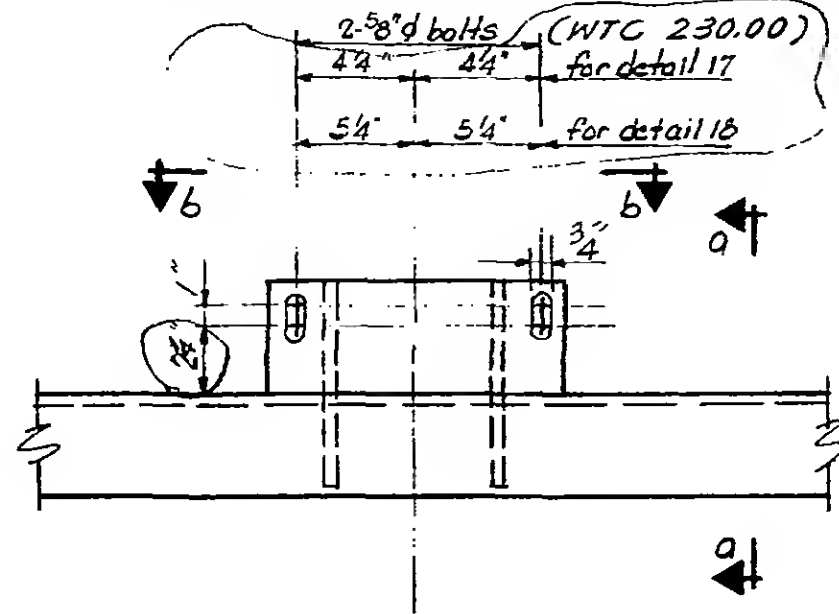
REVISIONS

11-22-67

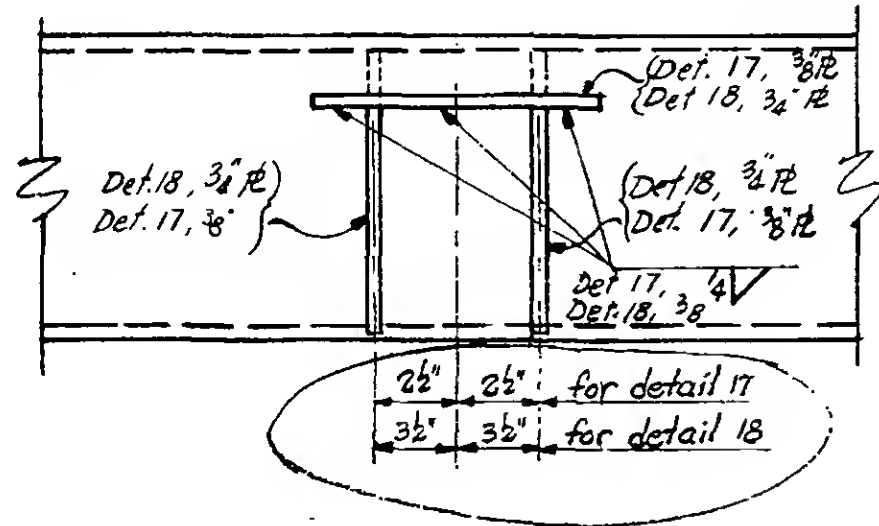


REVISIONS

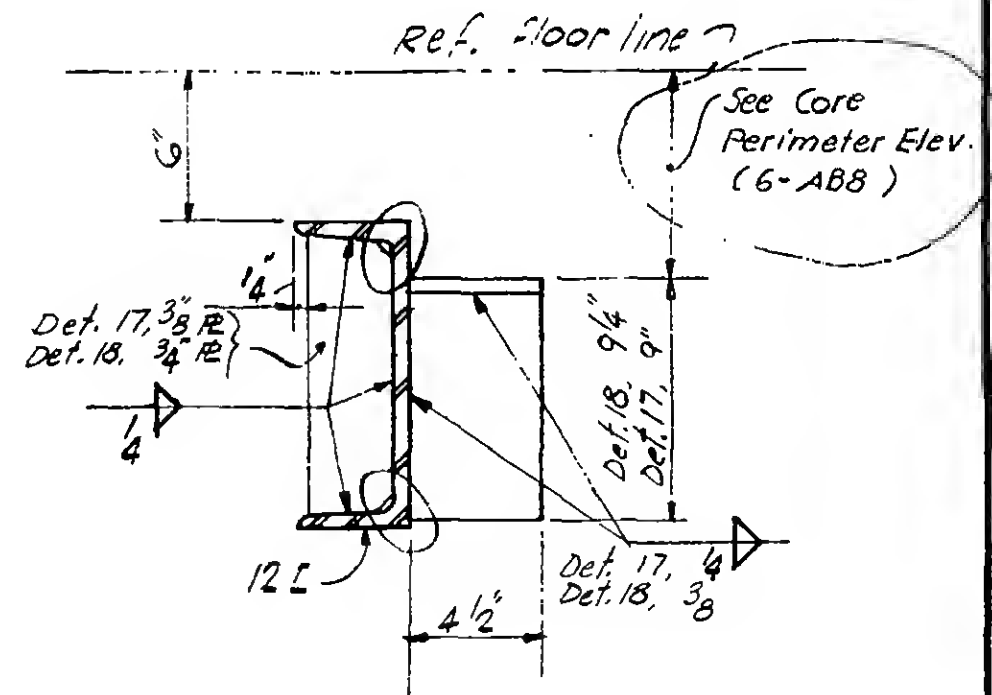
11-22-67



PLAN



Section b-b



Section a-a



PROJECT

THE WORLD TRADE CENTER

TITLE

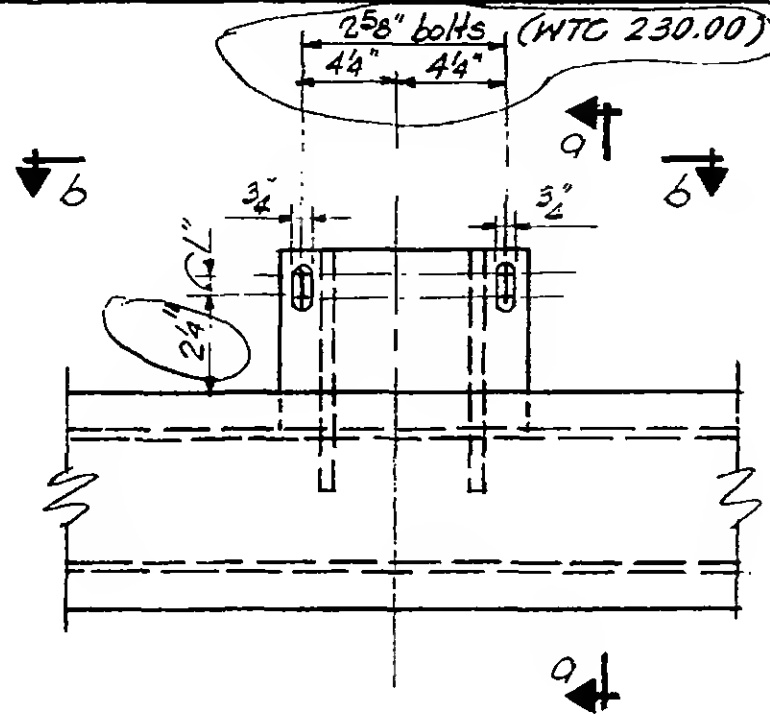
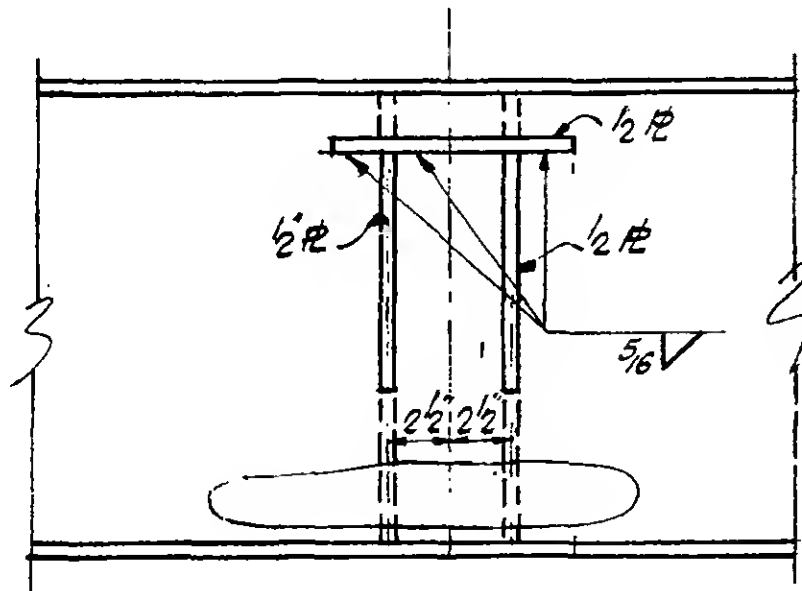
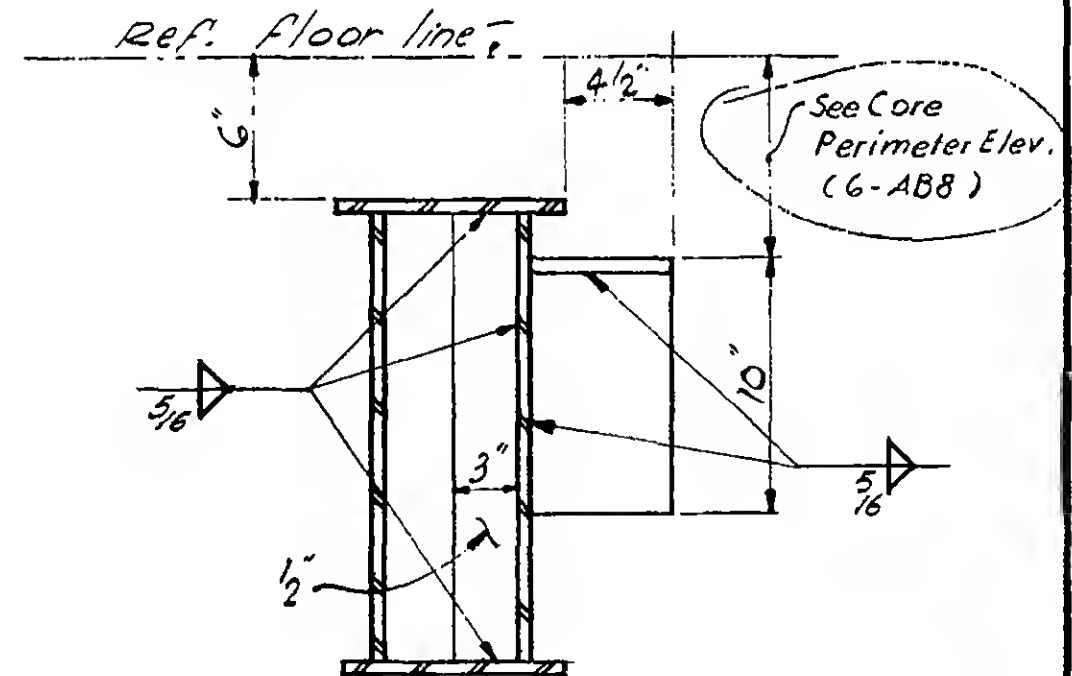
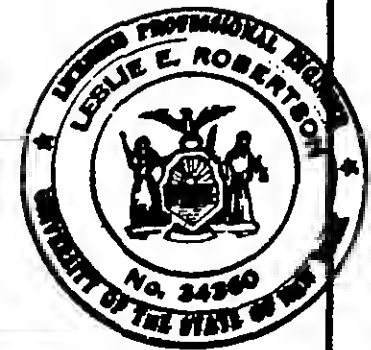
TRUSS SEAT DETAIL 19

DATE

9-25-67

REVISIONS

11-22-67

PLANSection b-bSection a-a

PROJECT

THE WORLD TRADE CENTER

TITLE

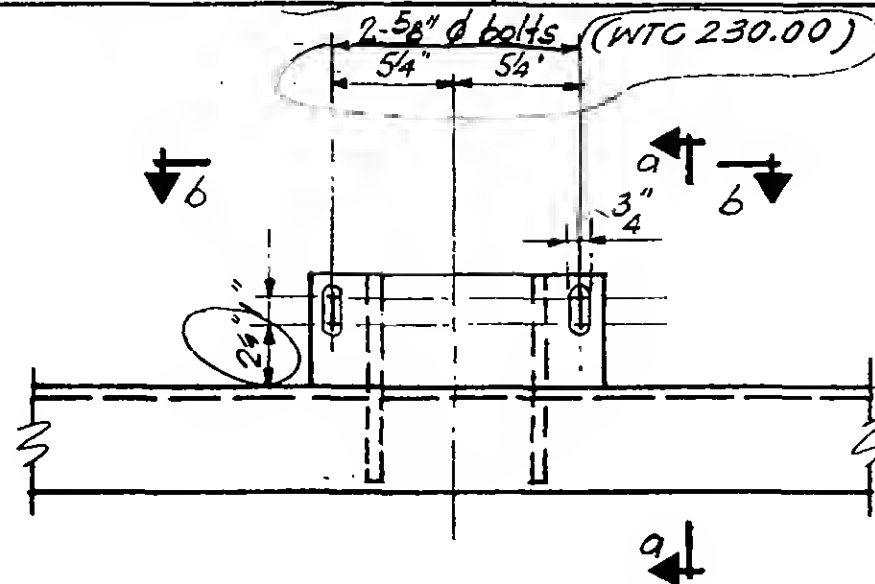
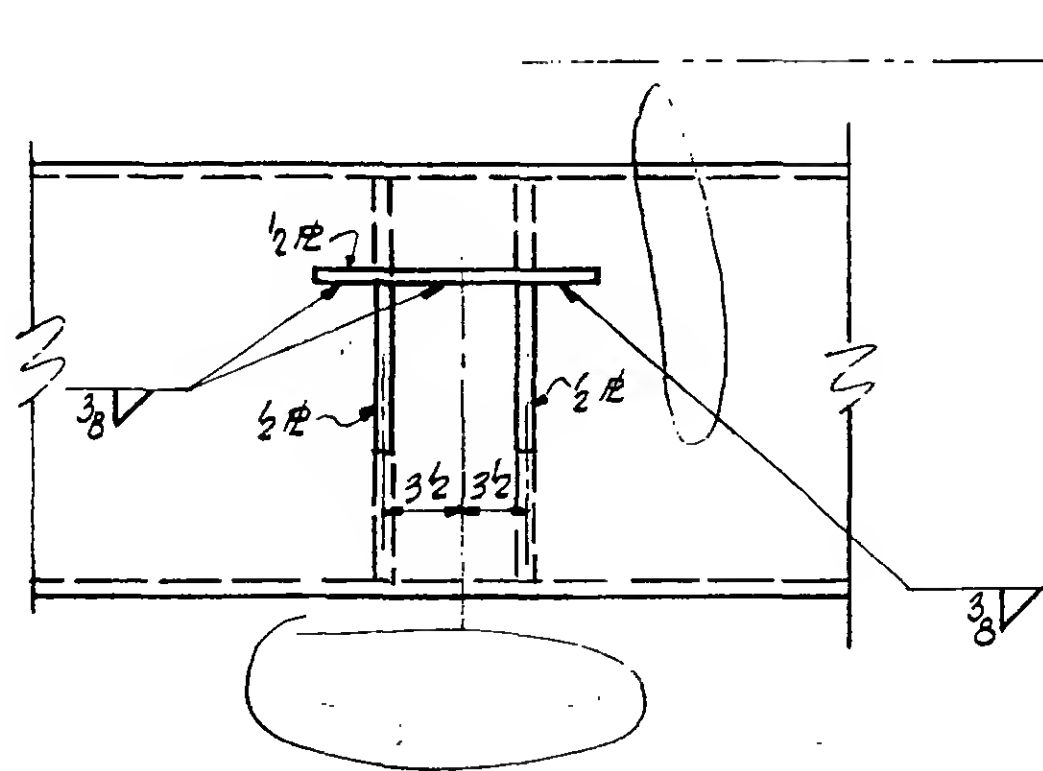
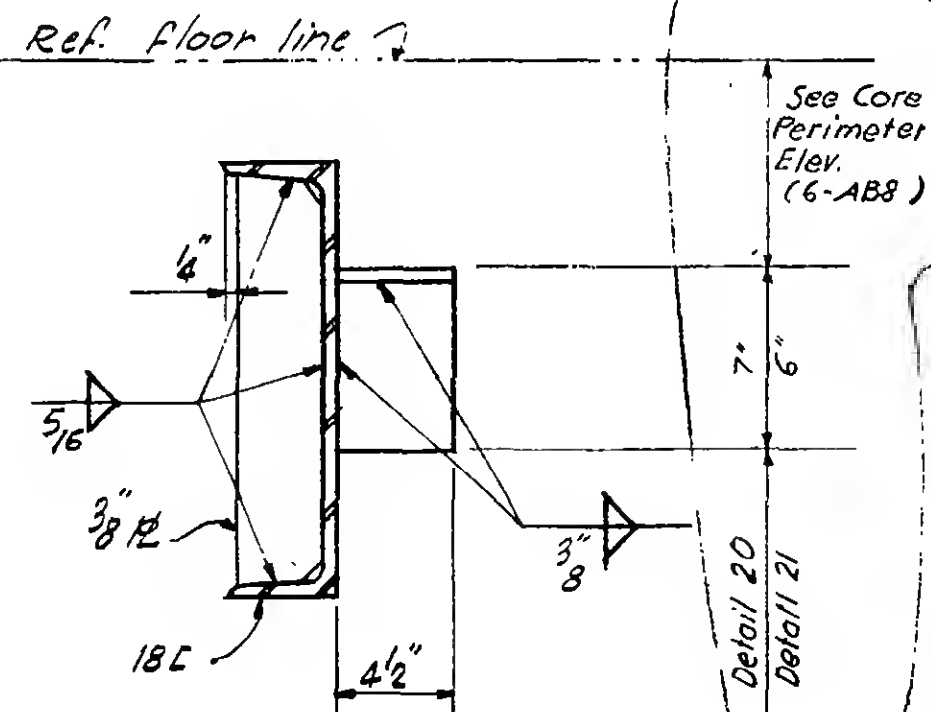
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DATE

9-25-67

REVISIONS

11-22-67

PLANSection b-bSection a-a

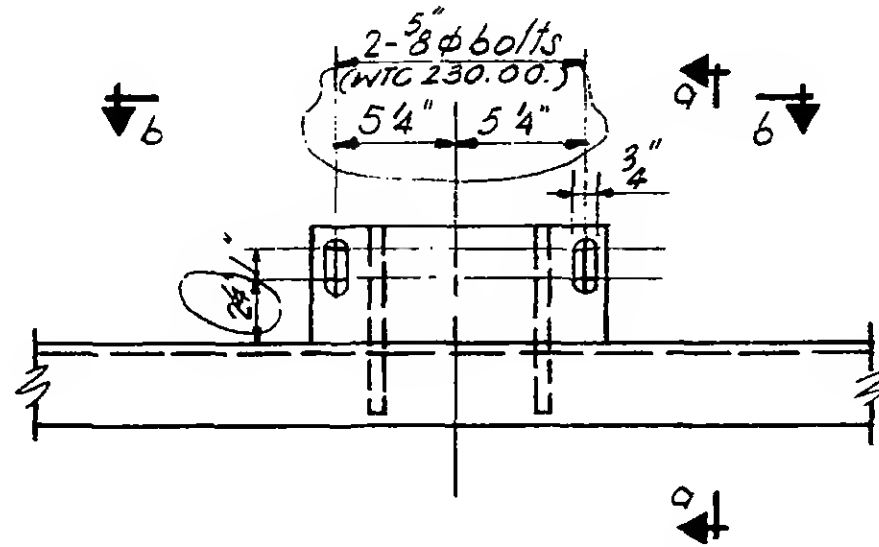
PROJECT THE WORLD TRADE CENTER

TITLE TRUSS SEAT DETAIL 22

DATE 9-25-67

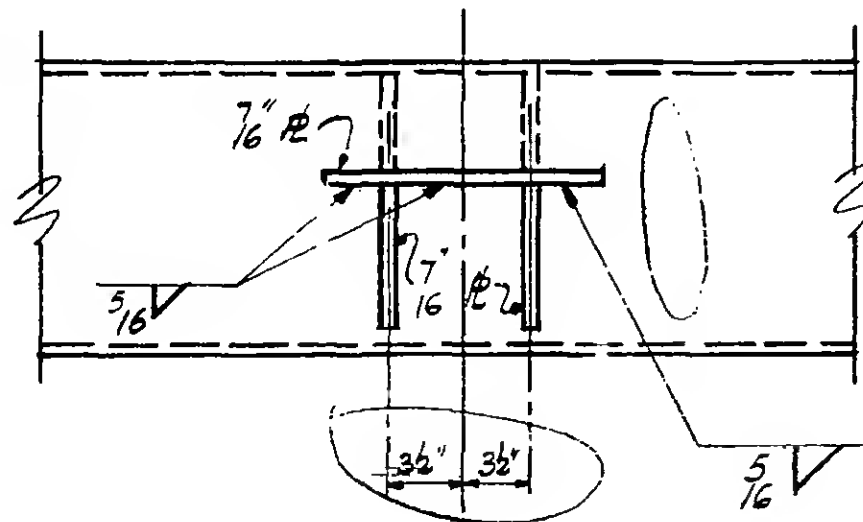
REVISIONS

11-22-67

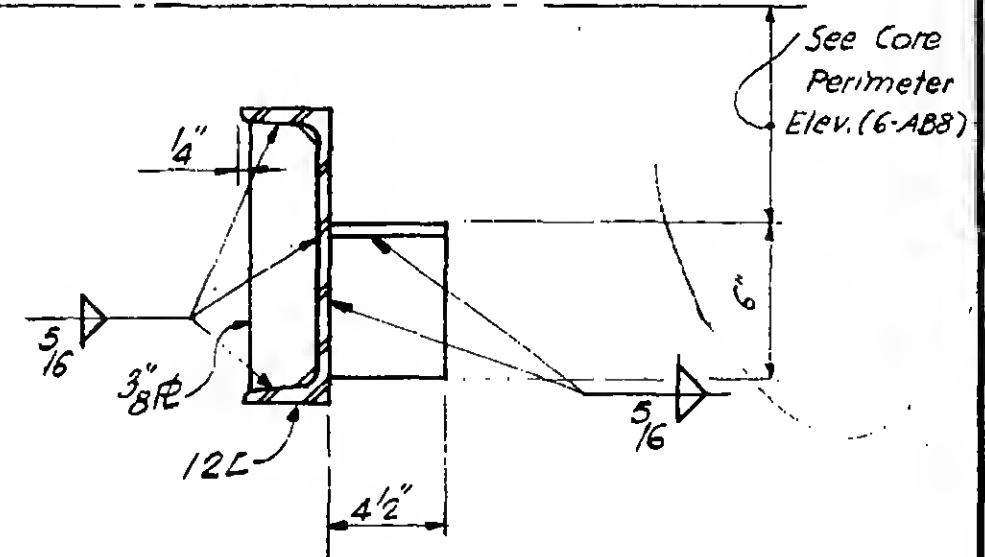


PLAN

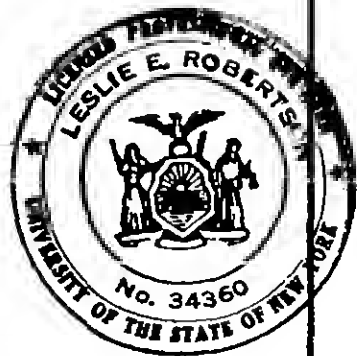
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Section b-b

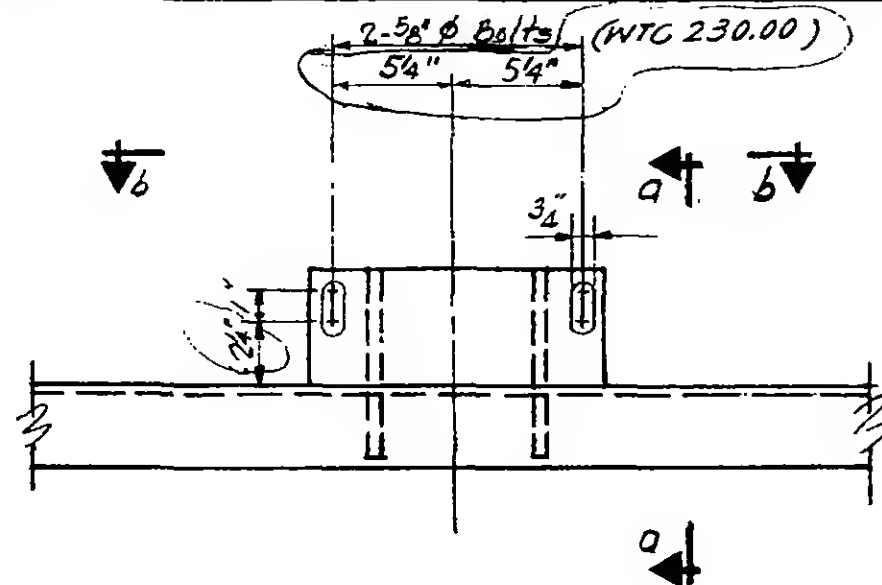


Section a-a

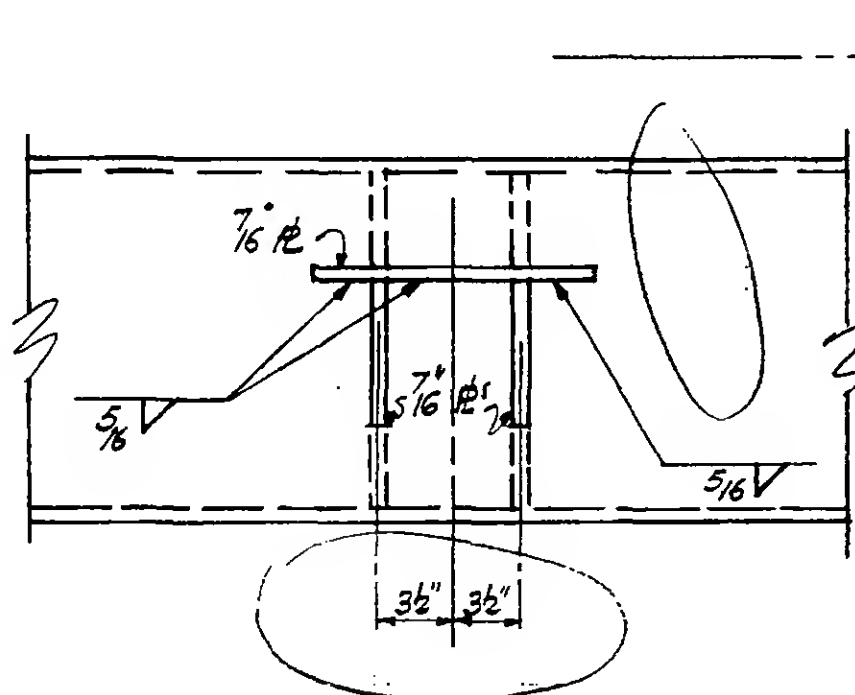


REVISIONS

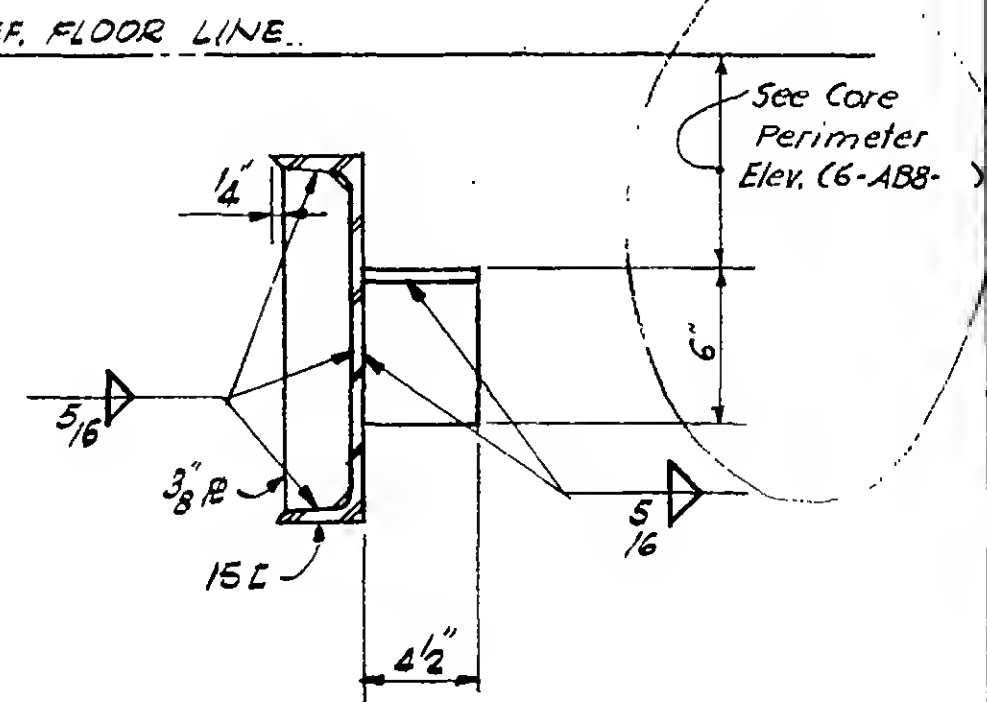
11-22-67



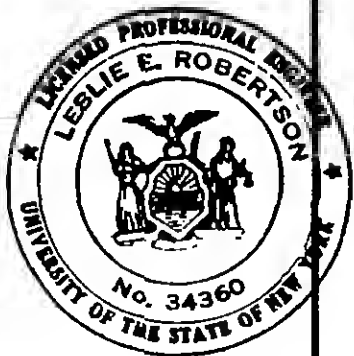
PLAN



section b-b



Section a-a

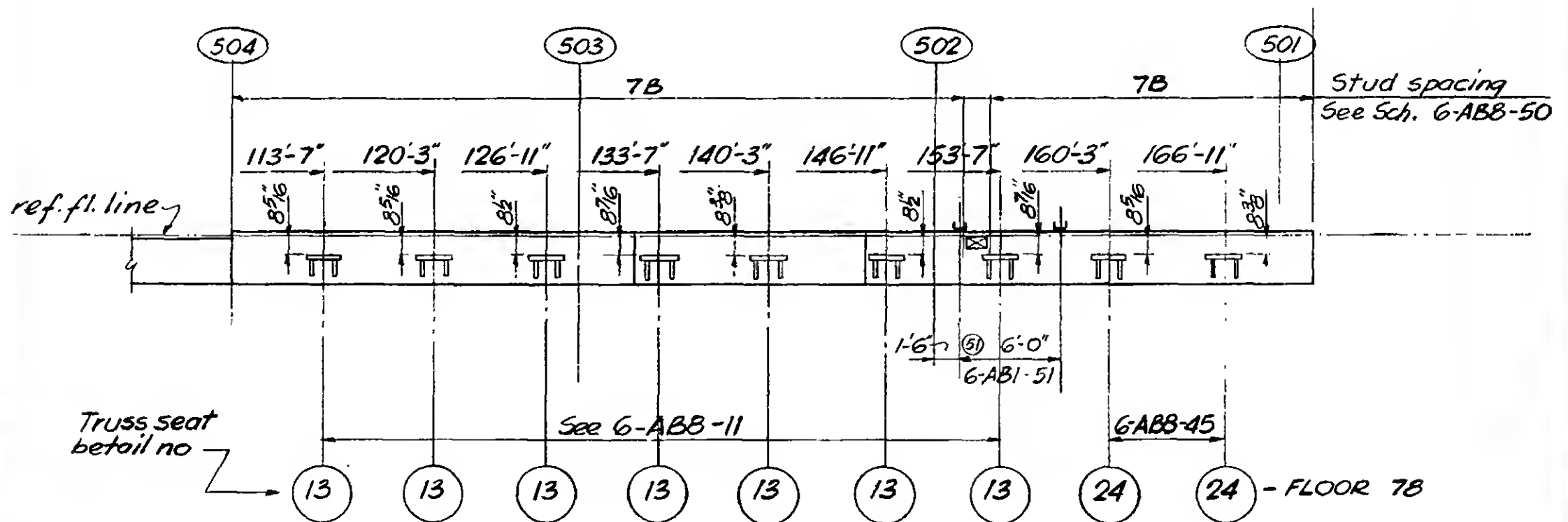
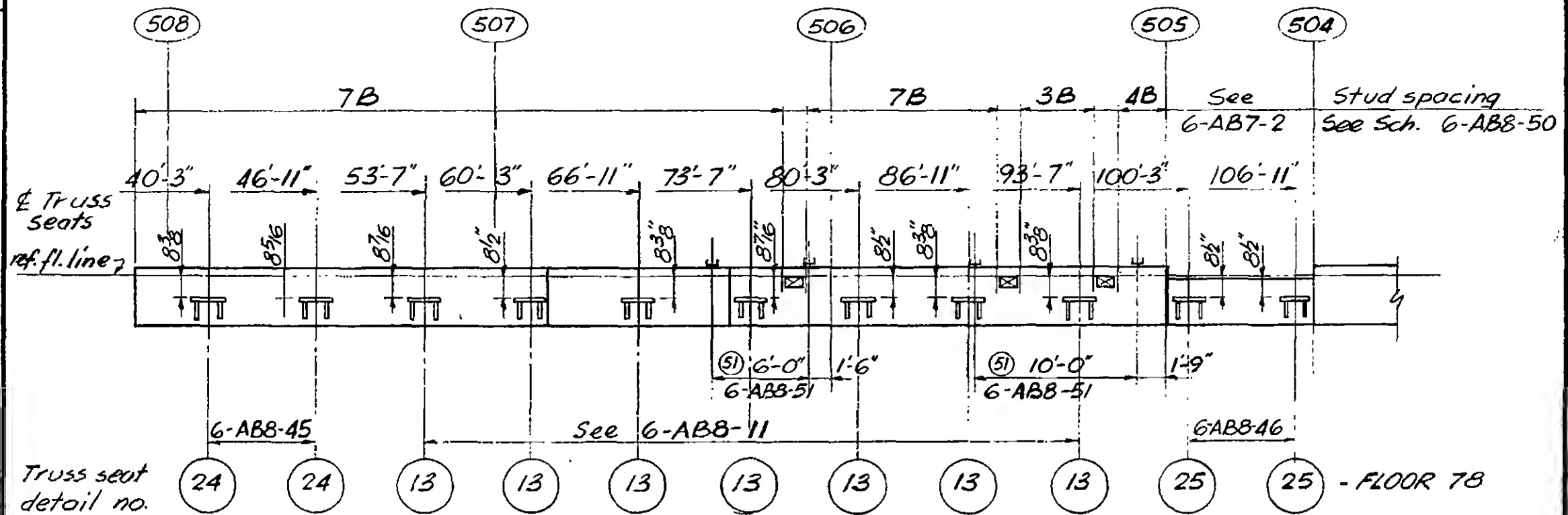


PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION - FLOOR 78

DATE 11-22-67

REVISIONS



PROJECT

THE WORLD TRADE CENTER

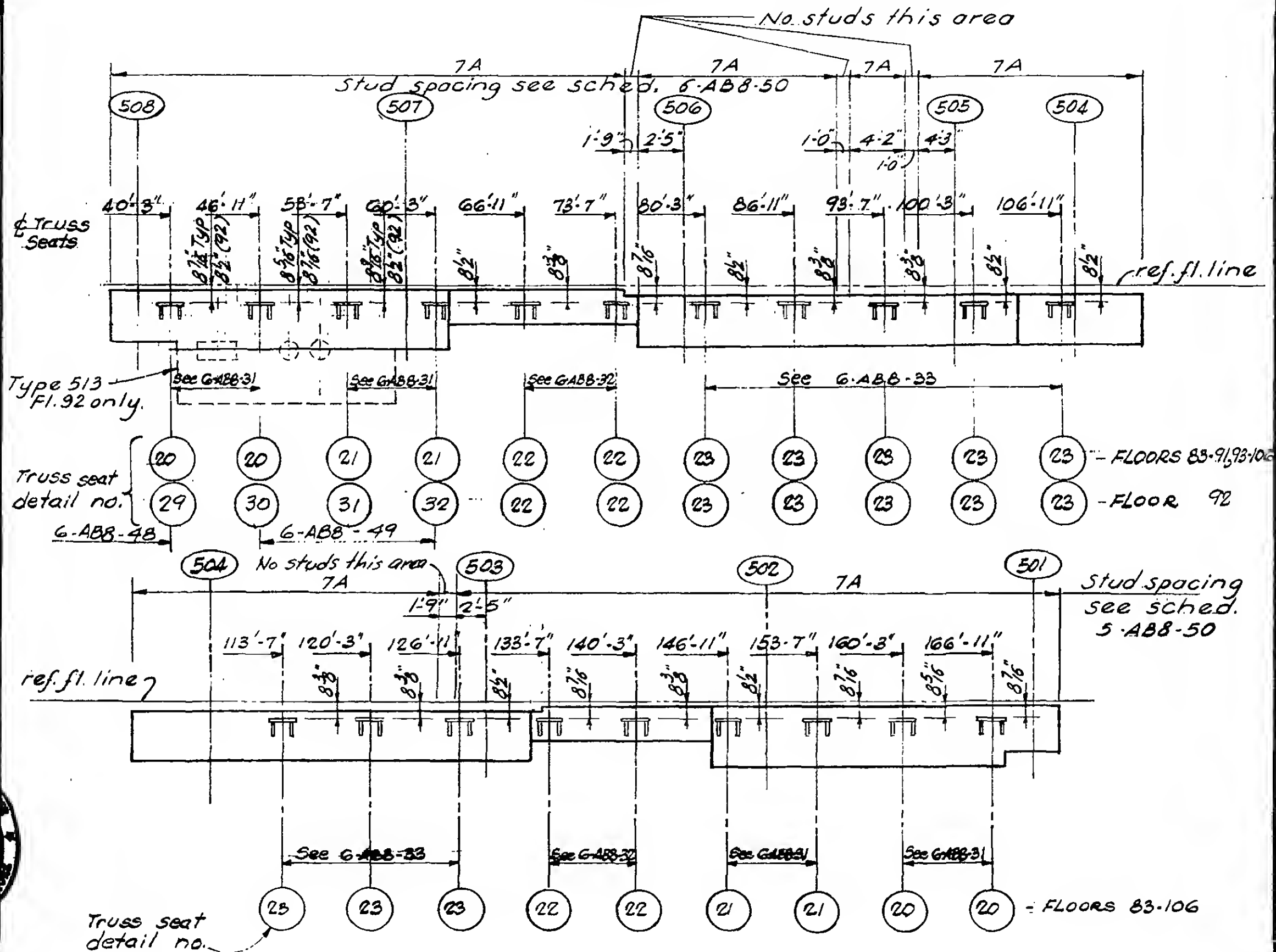
TITLE

CORE PERIMETER ELEVATION - FLOORS 83-106

DATE

11-22-67

REVISIONS

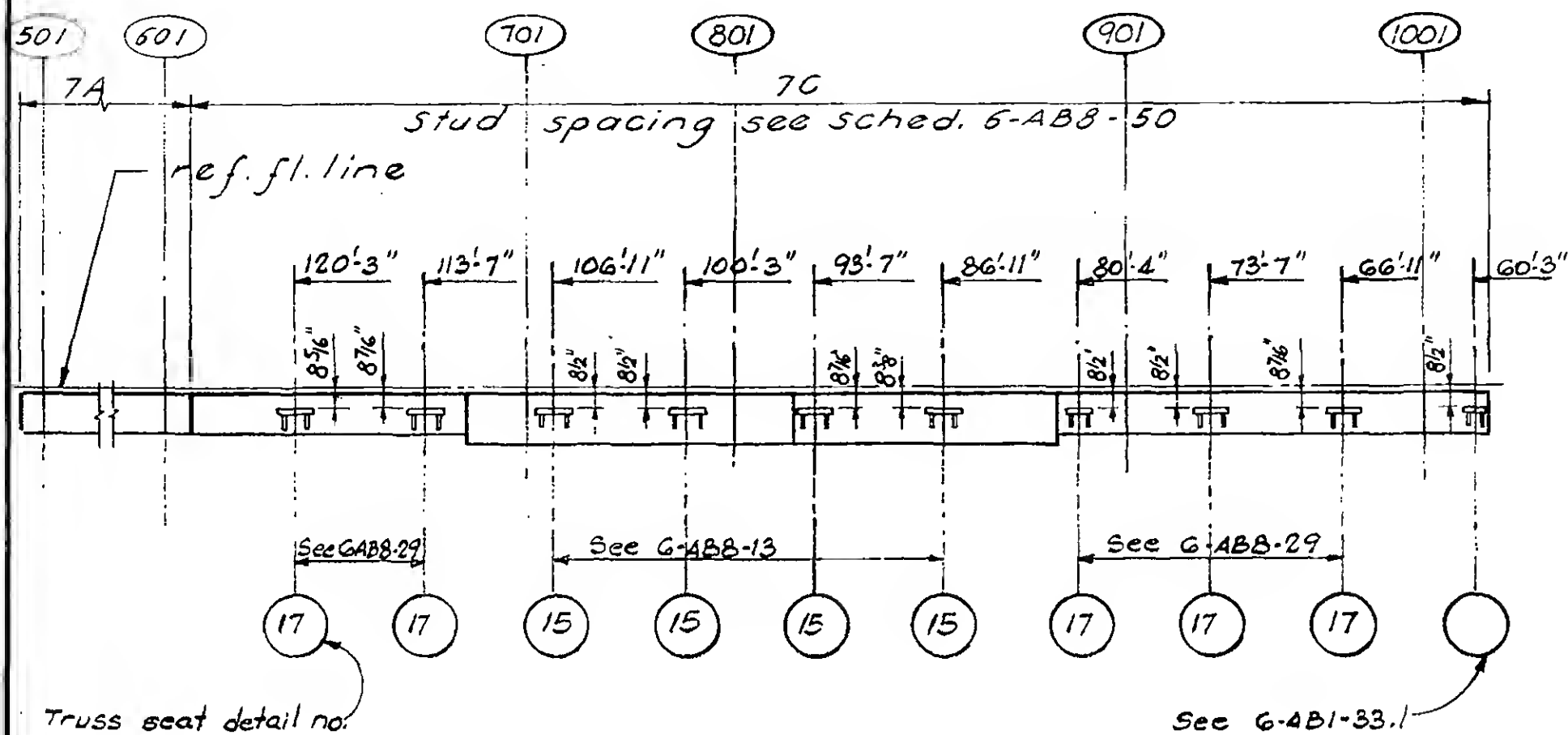


PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION FLOORS 79, 80, 82, 83

DATE 11-22-67

REVISIONS

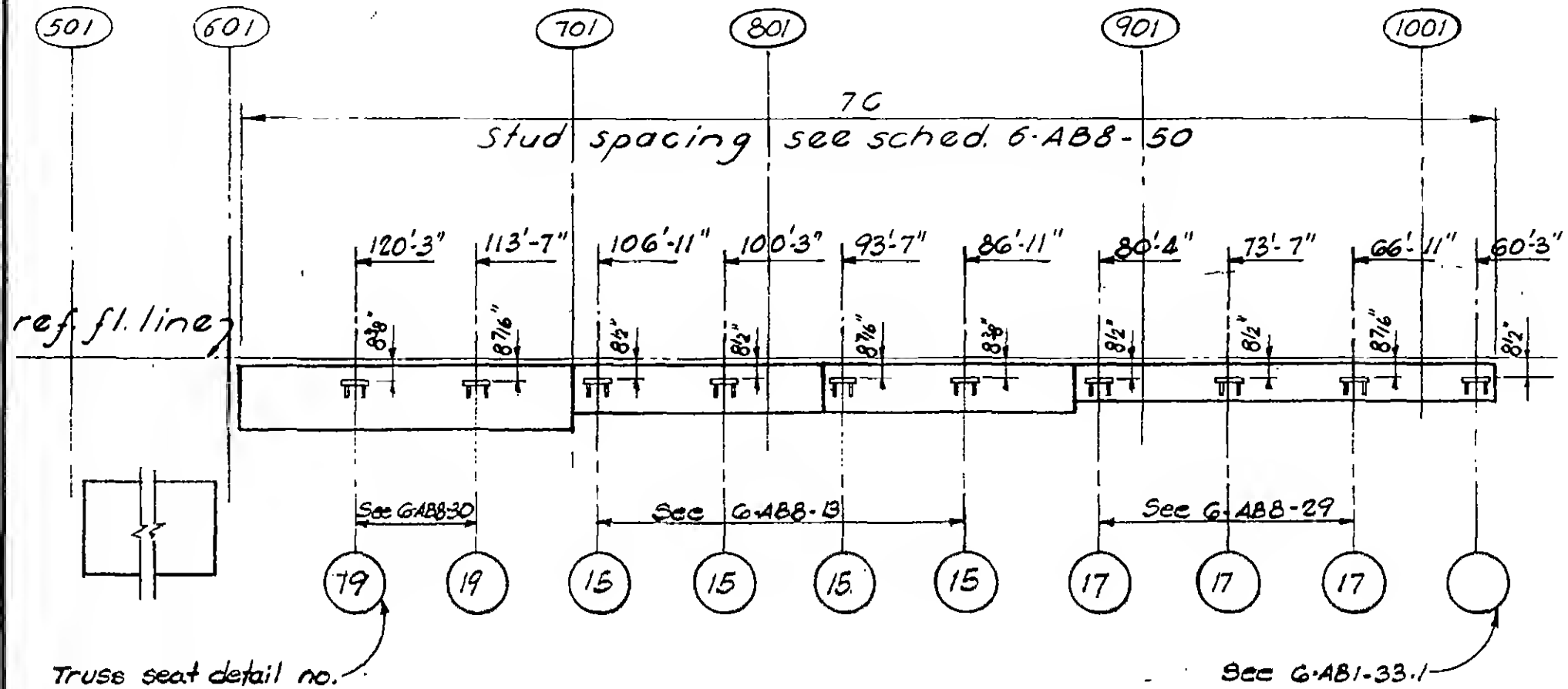


PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION FLOORS 81

DATE 11-22-67

REVISIONS

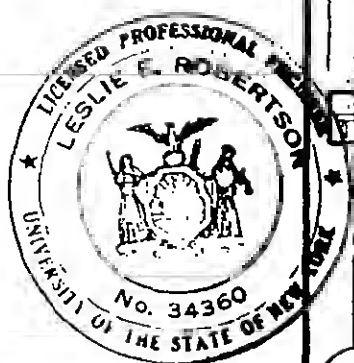
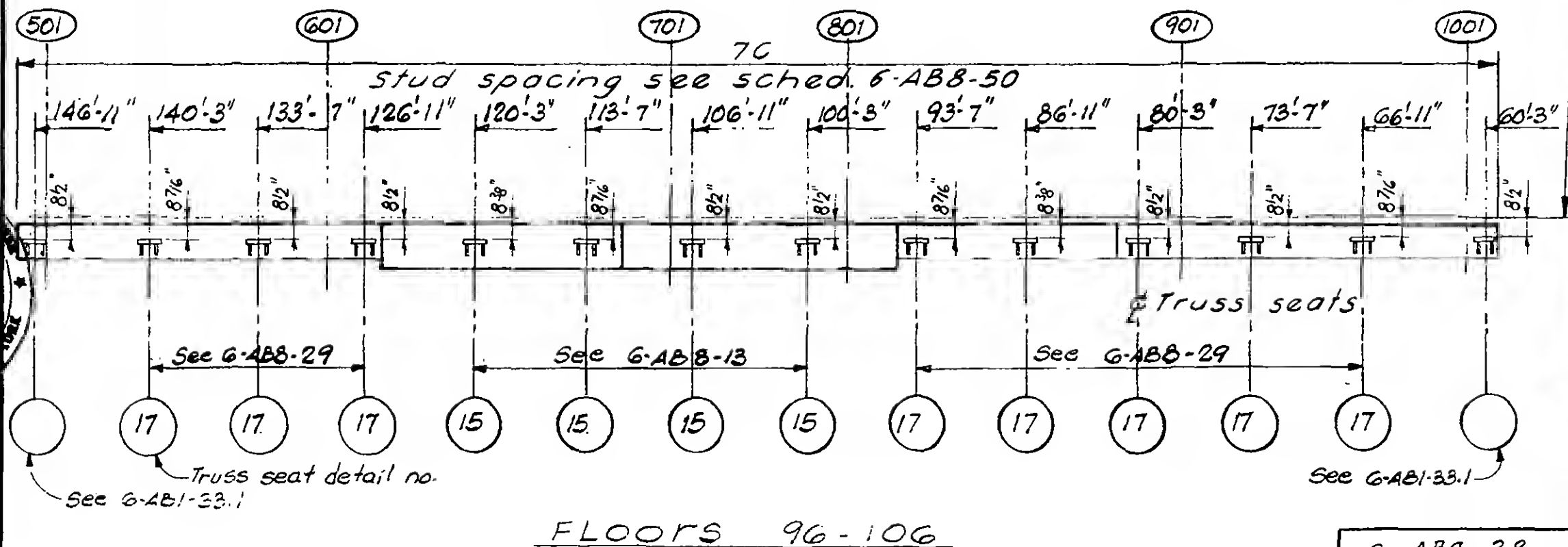
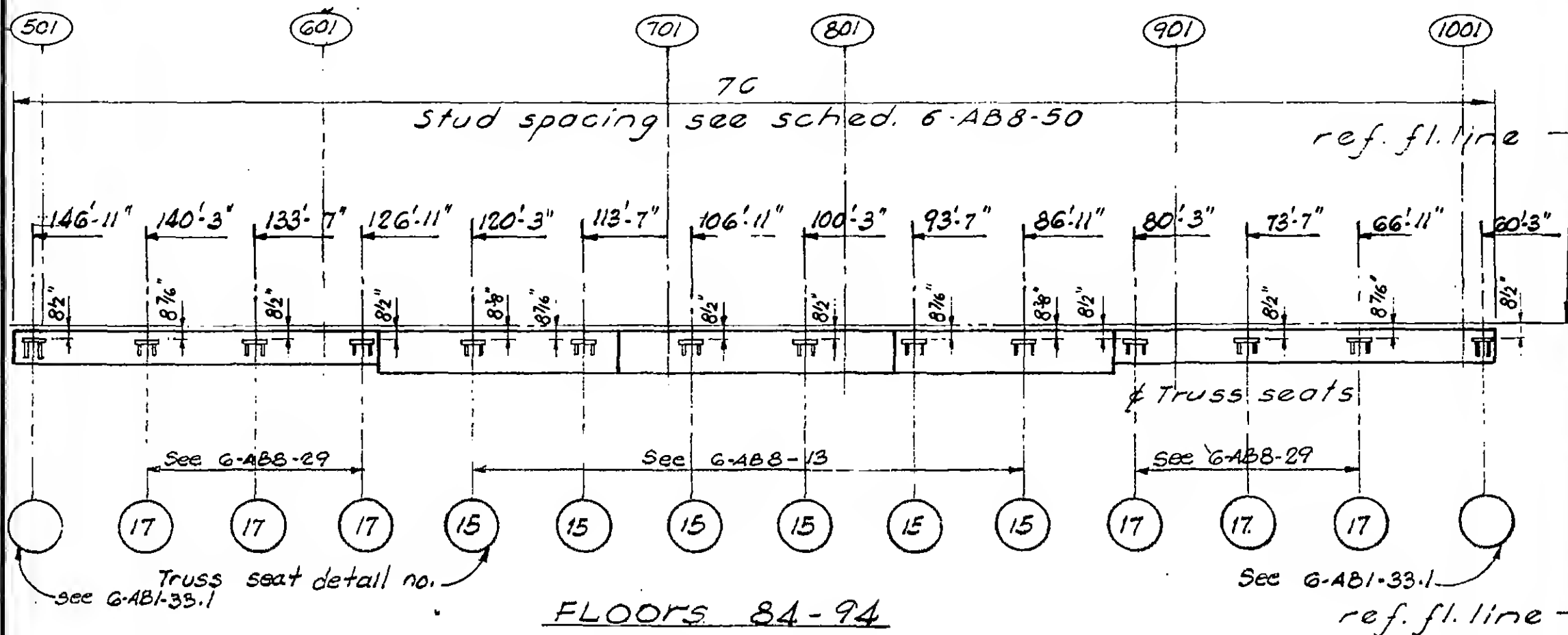


PROJECT THE WORLD TRADE CENTER

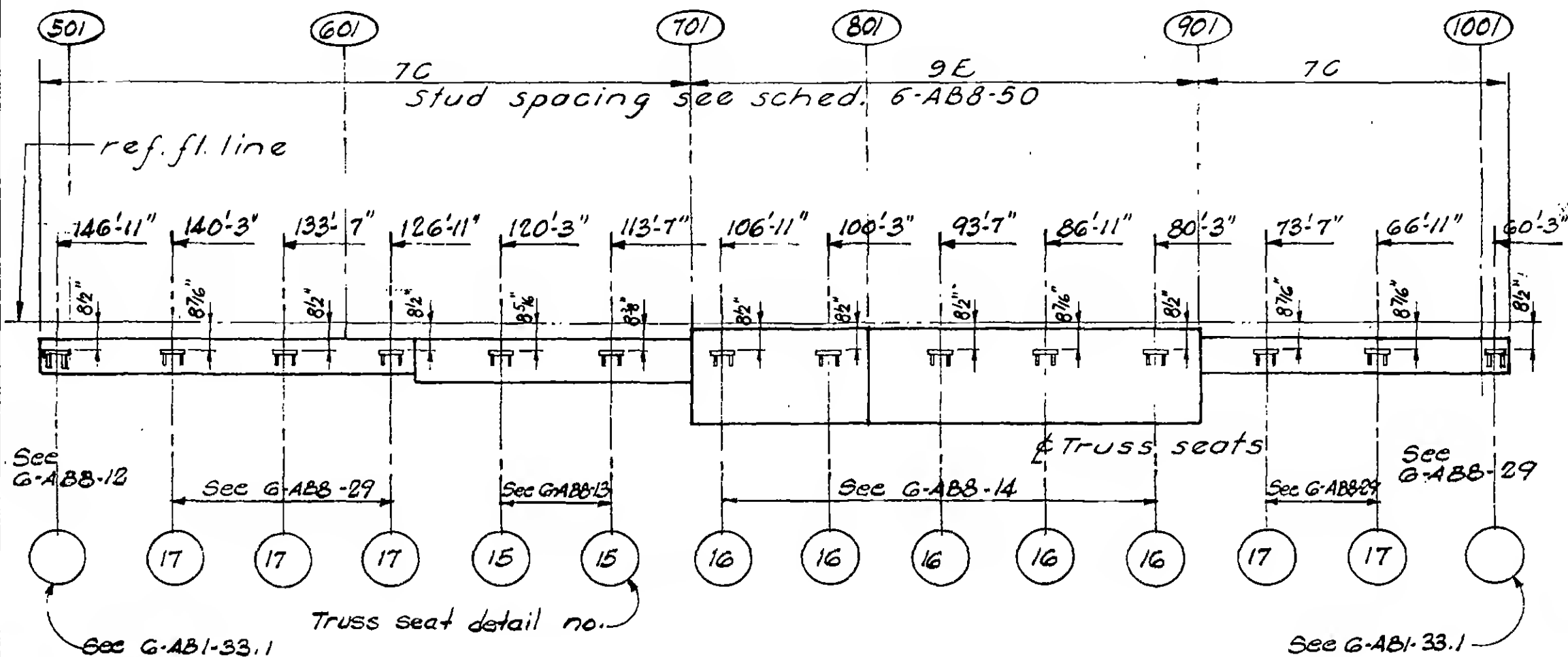
TITLE CORE PERIMETER ELEVATION FLOORS 84-94, 96-106

DATE 11-22-67

REVISIONS



REVISIONS

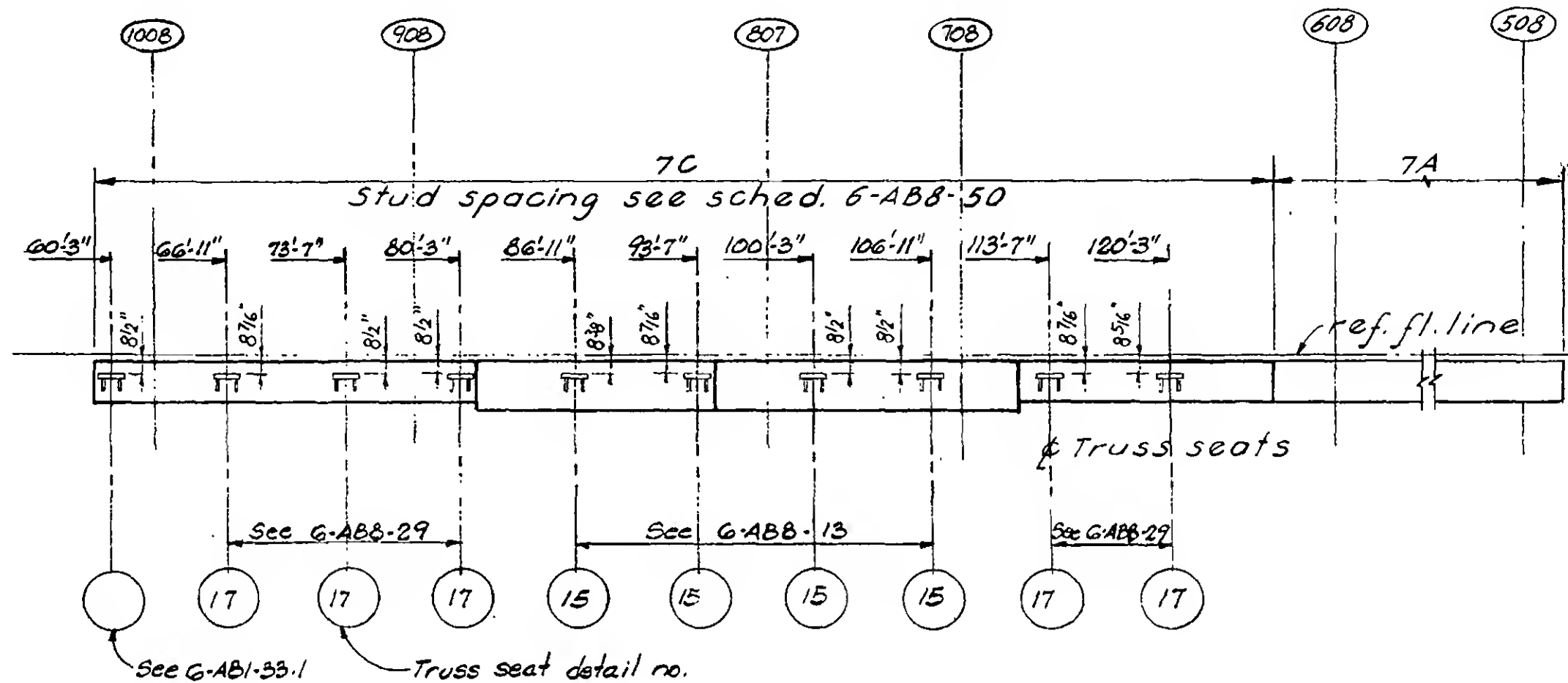


PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION - FLOORS 80, 82, 83

DATE 11-22-67

REVISIONS



PROJECT

THE WORLD TRADE CENTER

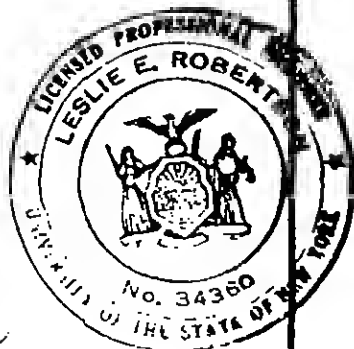
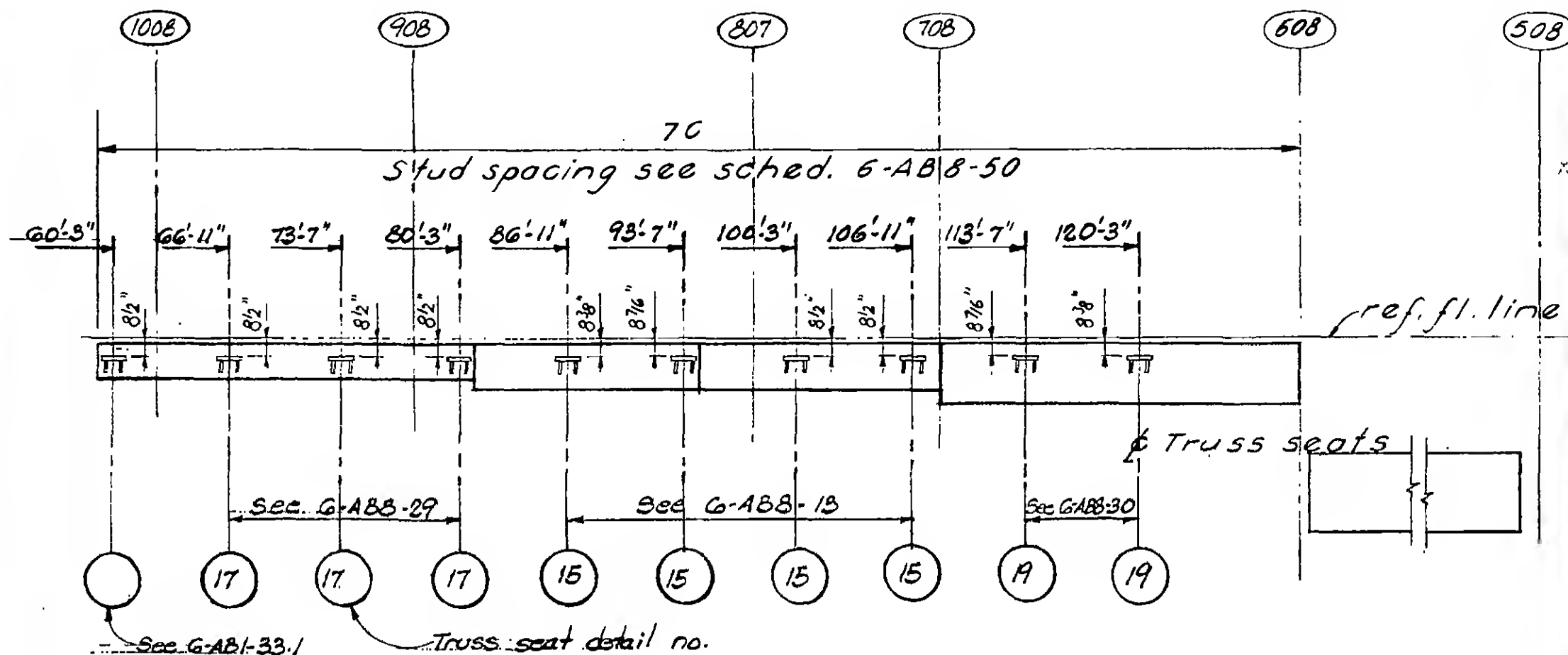
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CORE PERIMETER ELEVATION - FLOOR 81

DATE

11-22-67

REVISIONS

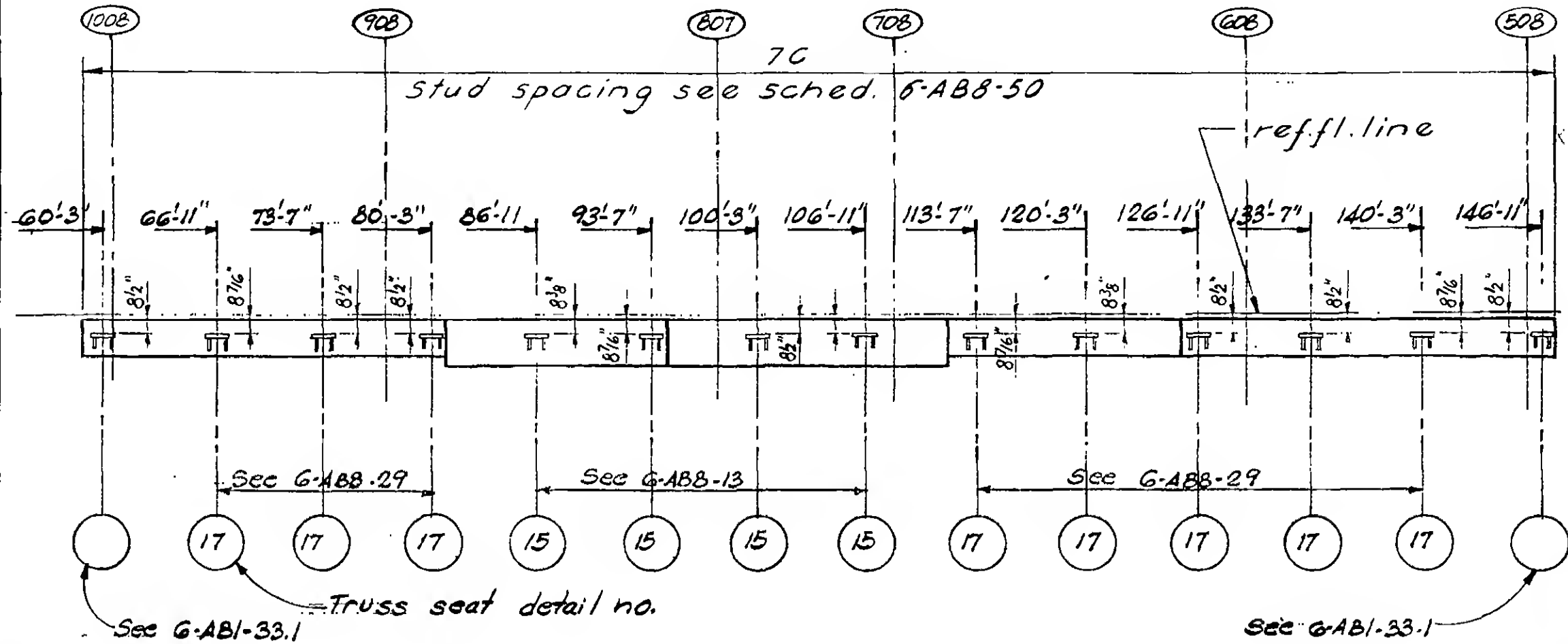


Structural & Civil Engineers

TITLE	CORE PERIMETER ELEVATION- FLOORS 84-87,89-106
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DATE 11-22-67

REVISIONS



6-488-42

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

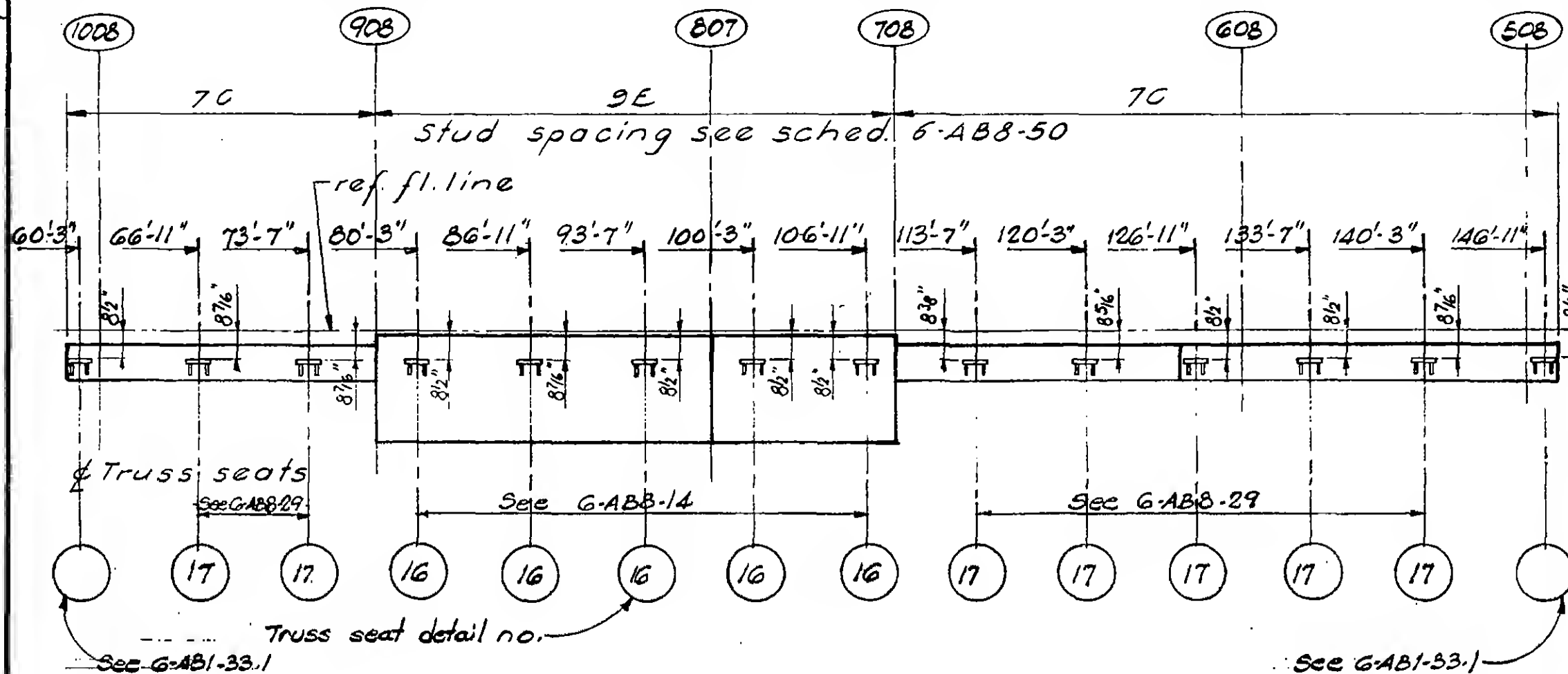
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION - FLOOR 88

DATE 11-22-67

REVISIONS



6-AB8-43

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

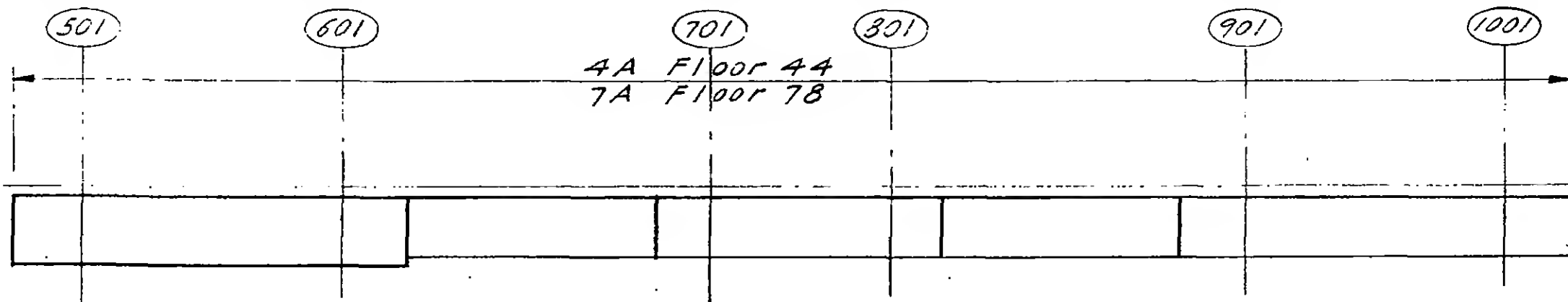
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER ELEVATION FLOOR 44, 45, 78, 79

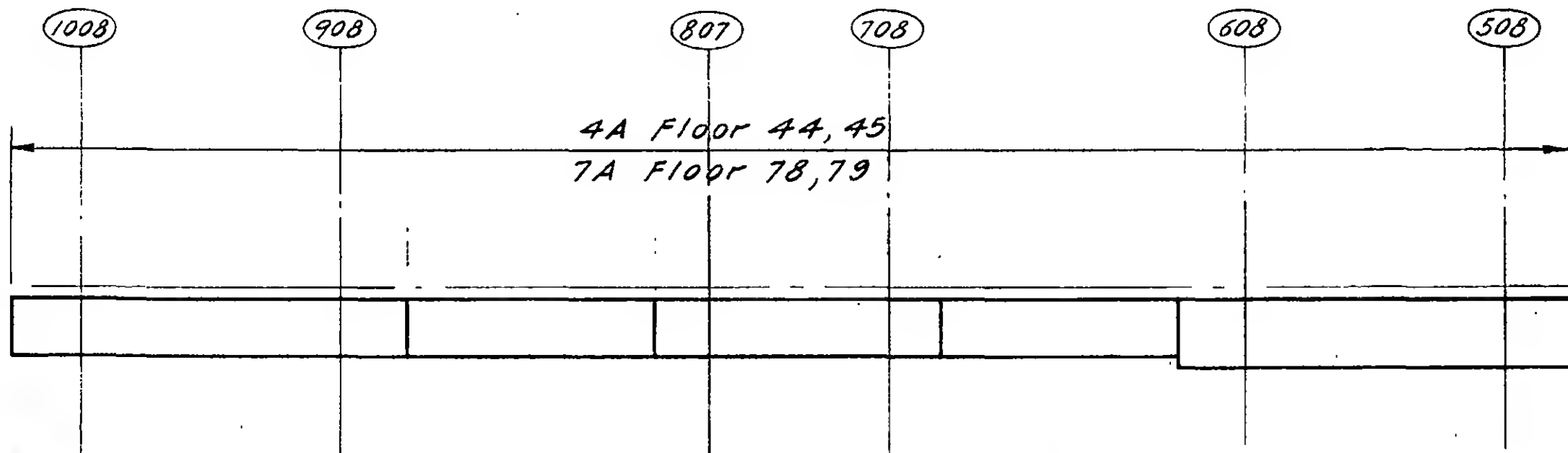
DATE 11-22-67

REVISIONS



Note:
No truss seats

Floor 44 & 78



Note
No truss seats

Floor 44, 45, 78, 79

For stud spacing see sched.
6-ABB-50.



6-ABB-44

PROJECT

THE WORLD TRADE CENTER

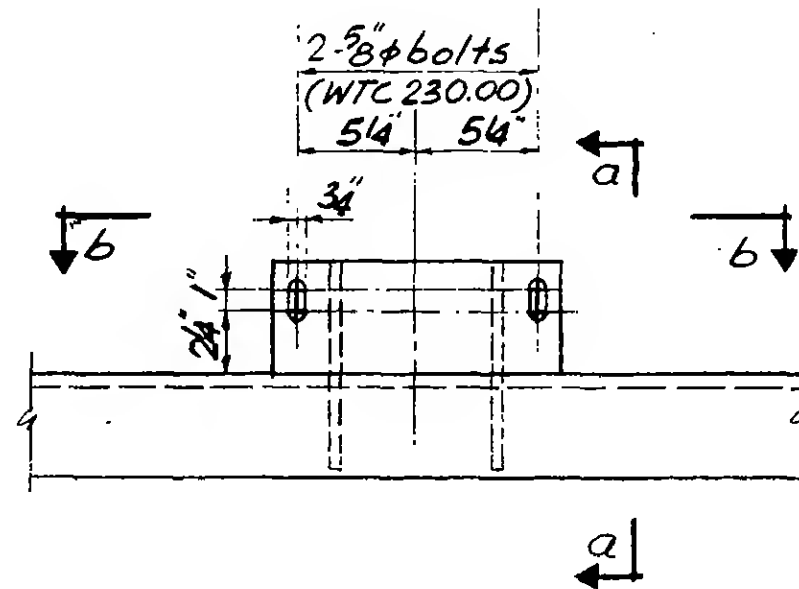
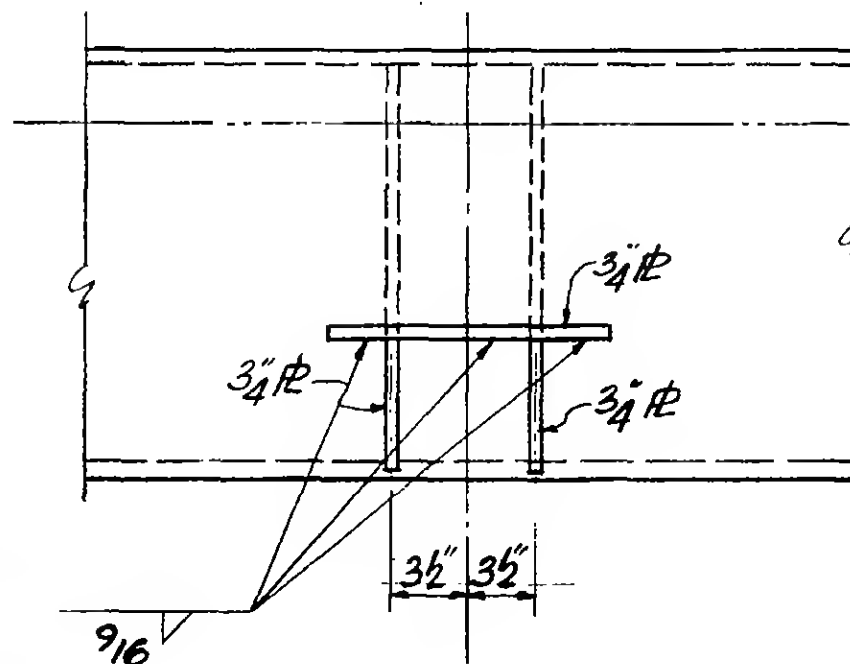
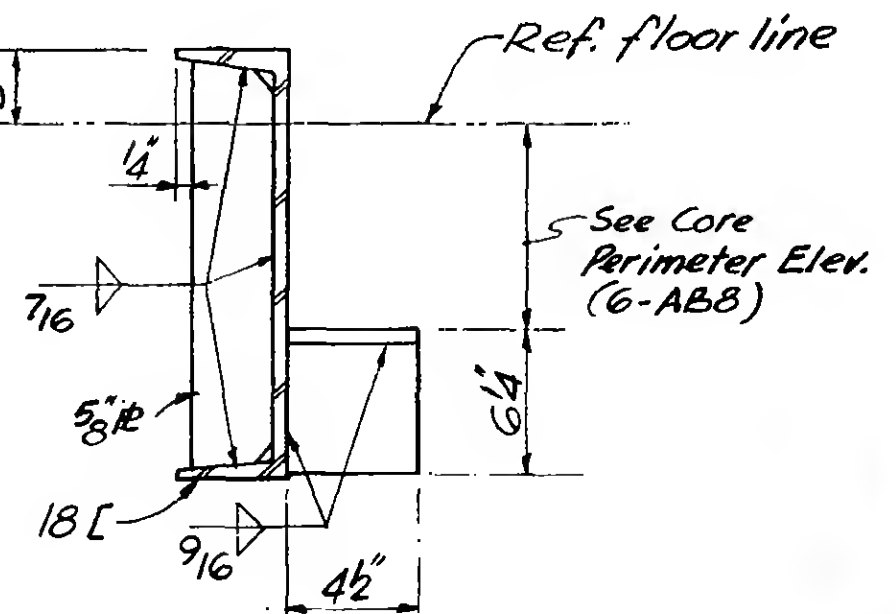
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TRUSS SEAT DETAIL 24

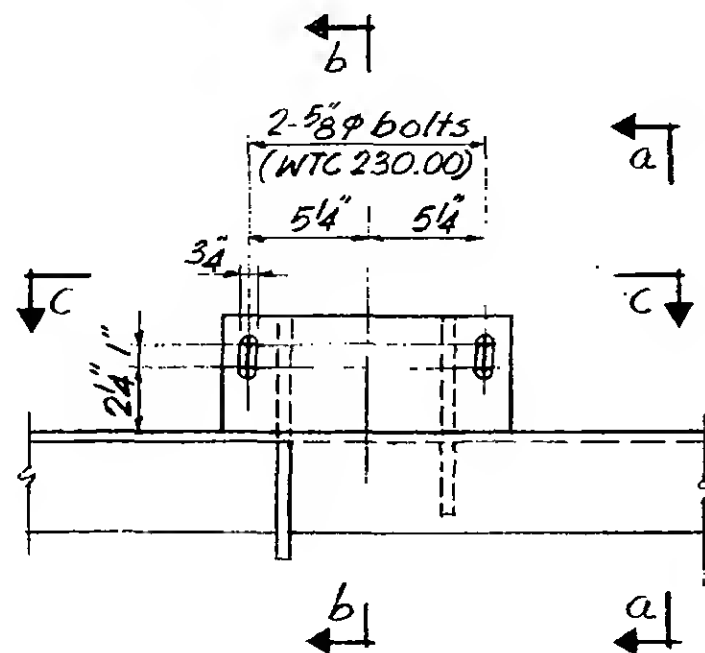
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11-22-67

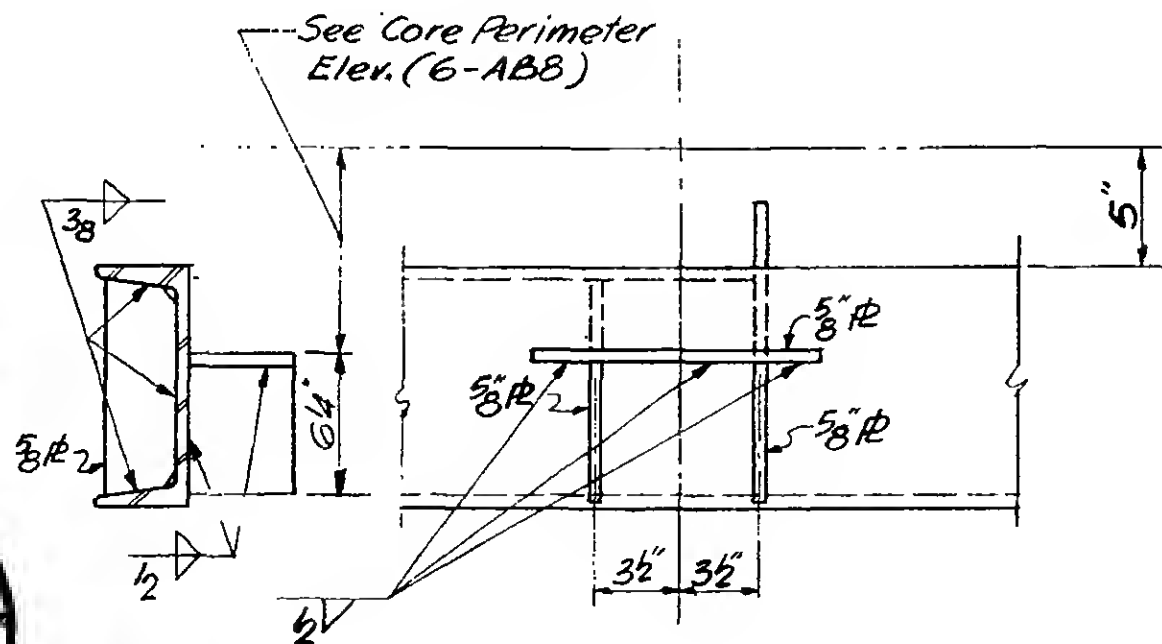
REVISIONS

PlanSection b-bSection a-a

REVISIONS

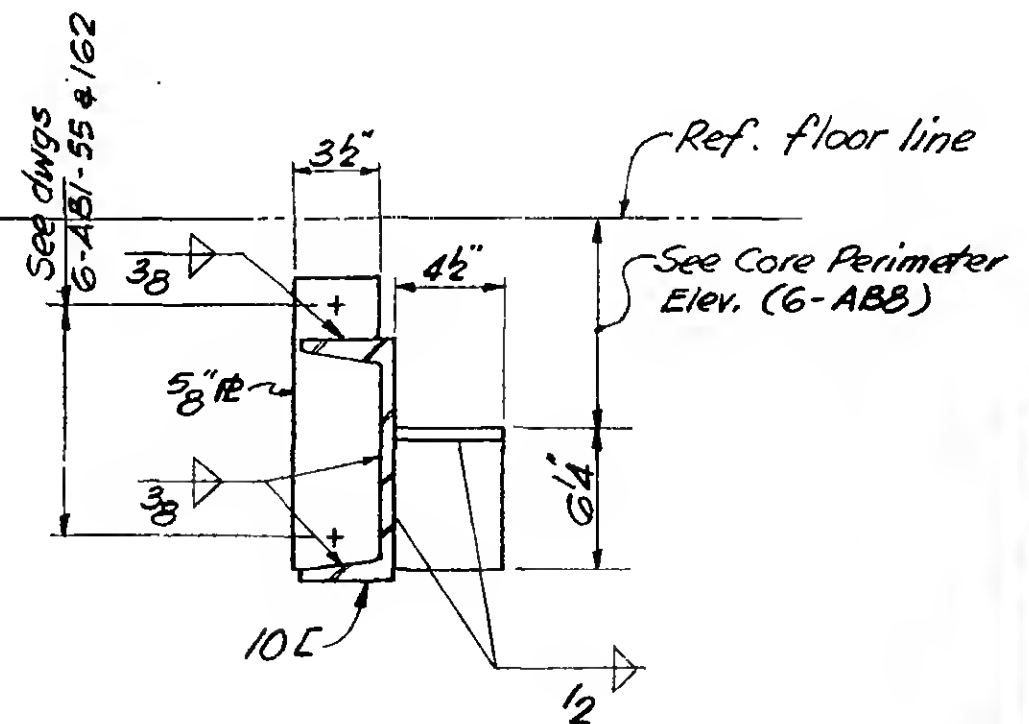


Plan



Section a-a

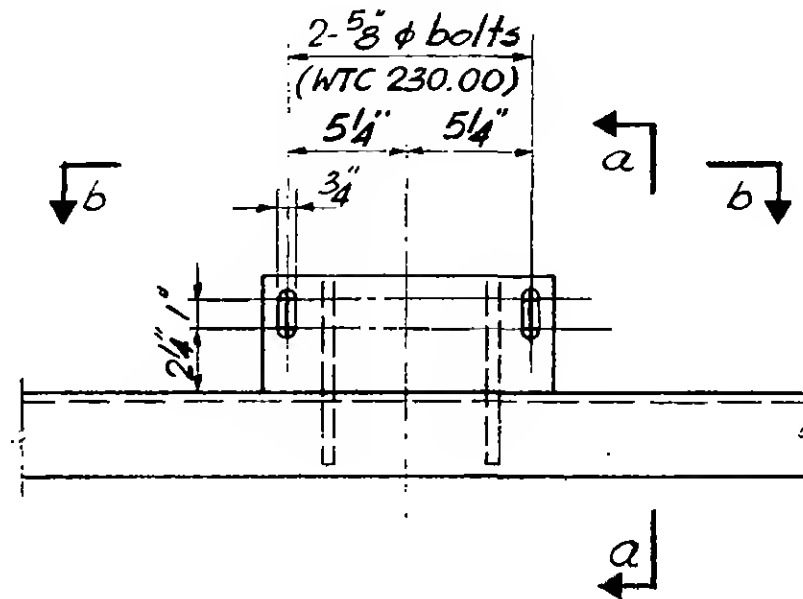
Section c-c



Section b-b



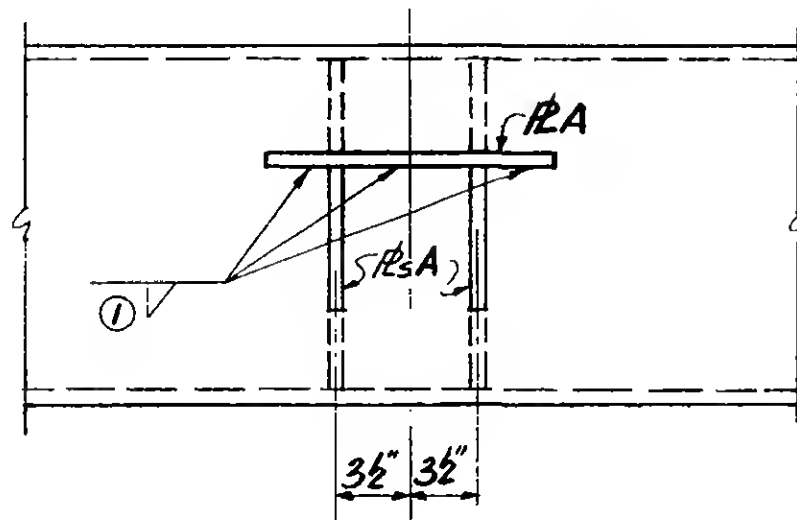
REVISIONS



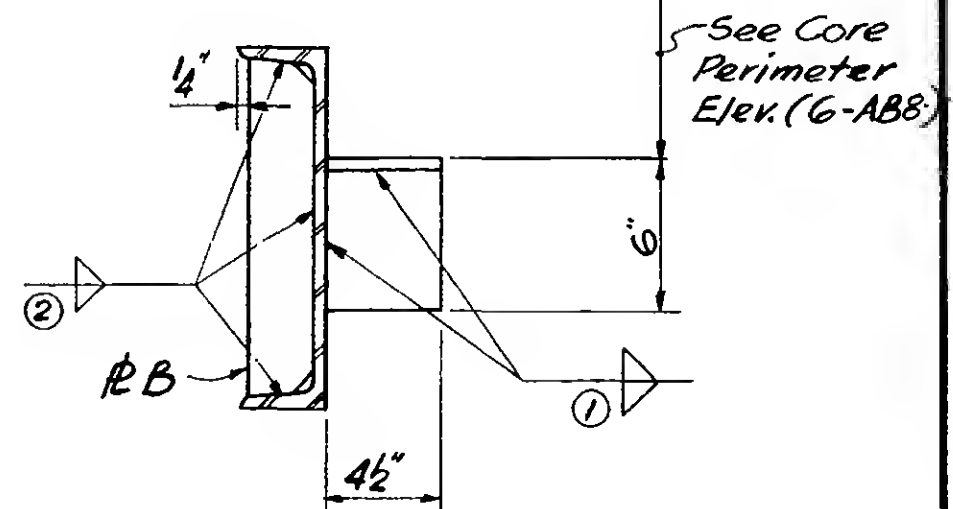
Plan

Detail	Plates		Welds	
	A	B	①	②
26	5/8"	1/2"	1/2	3/8
27	3/4"	5/8"	7/16	7/16
28	5/8"	5/8"	1/2	1/2

Ref floor line



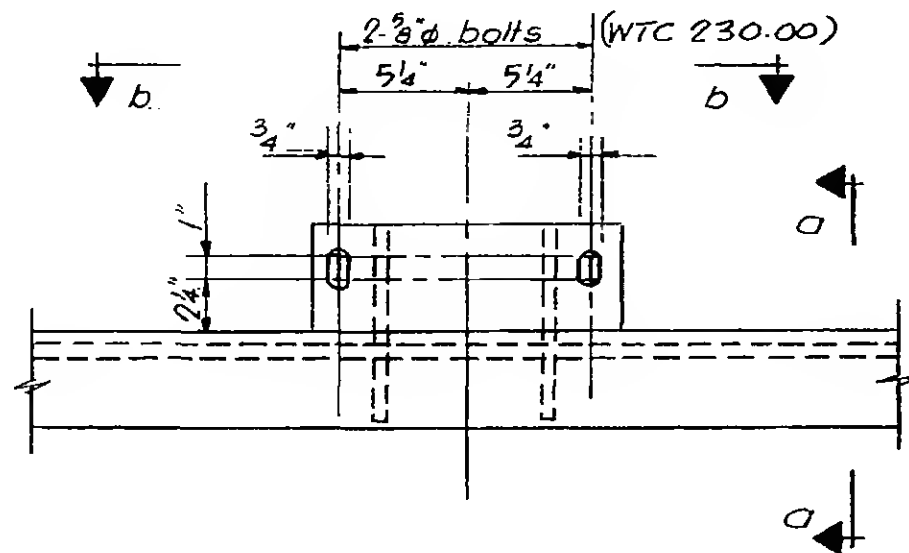
Section b-b



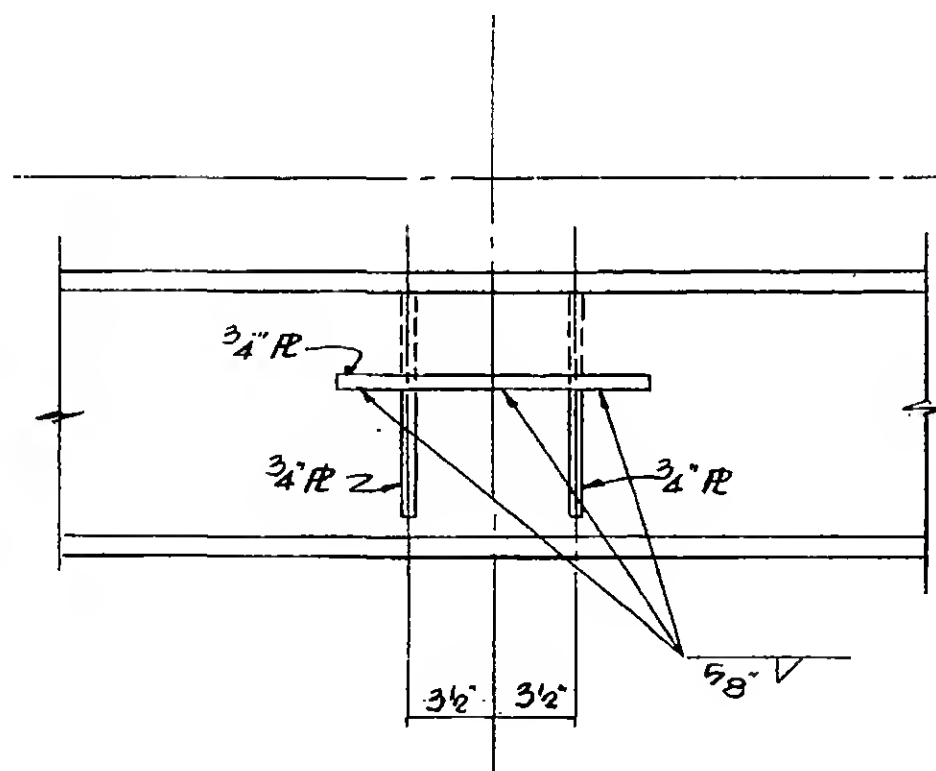
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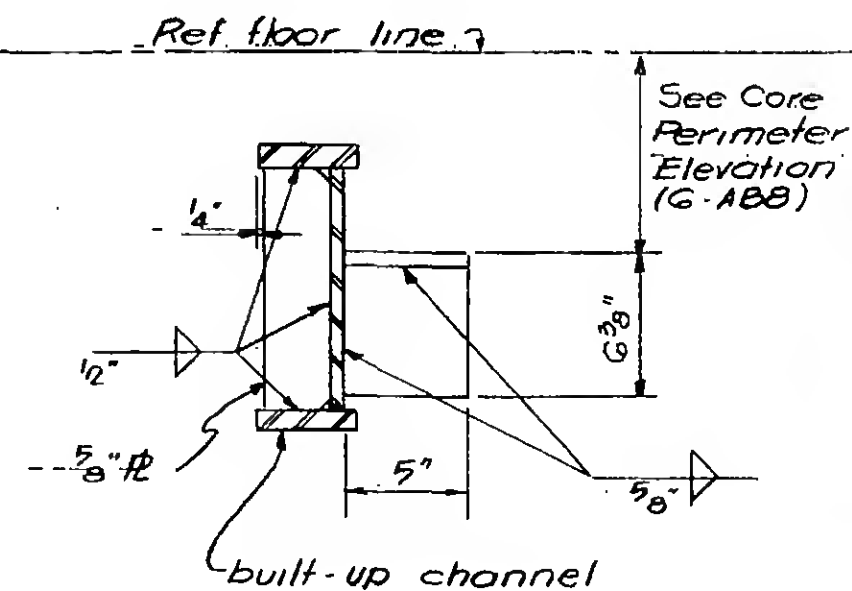
REVISIONS



Plan



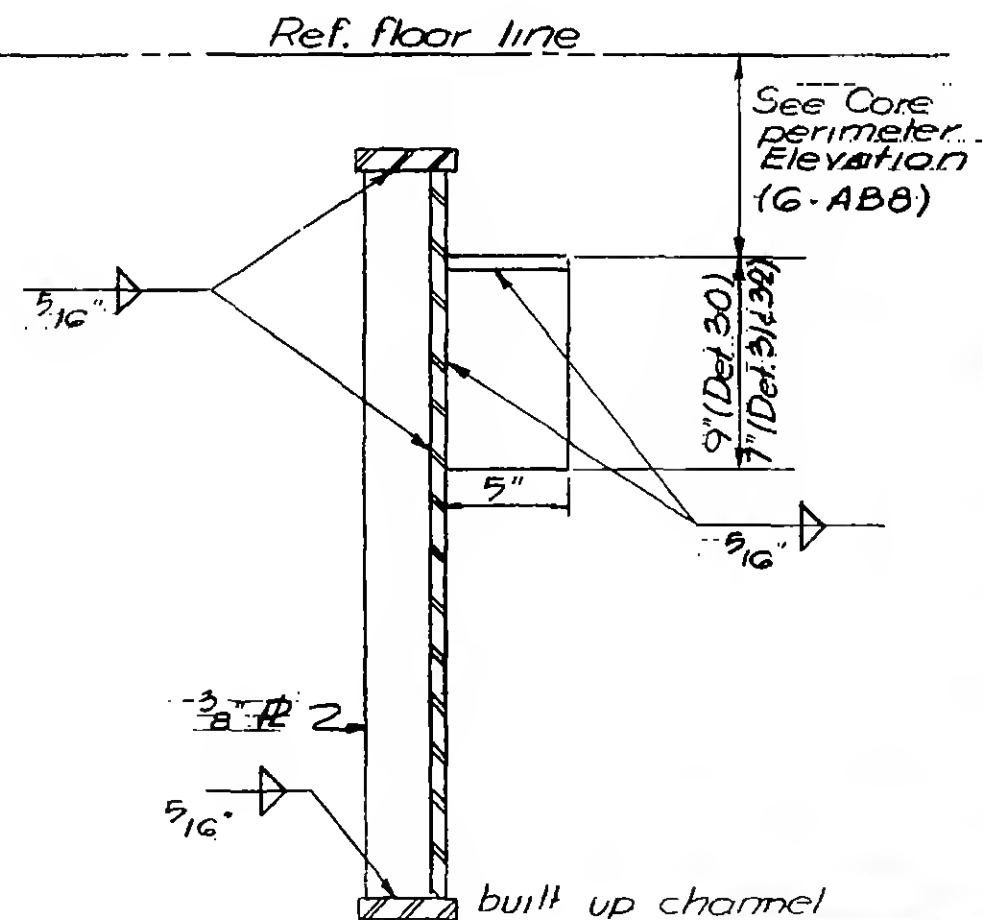
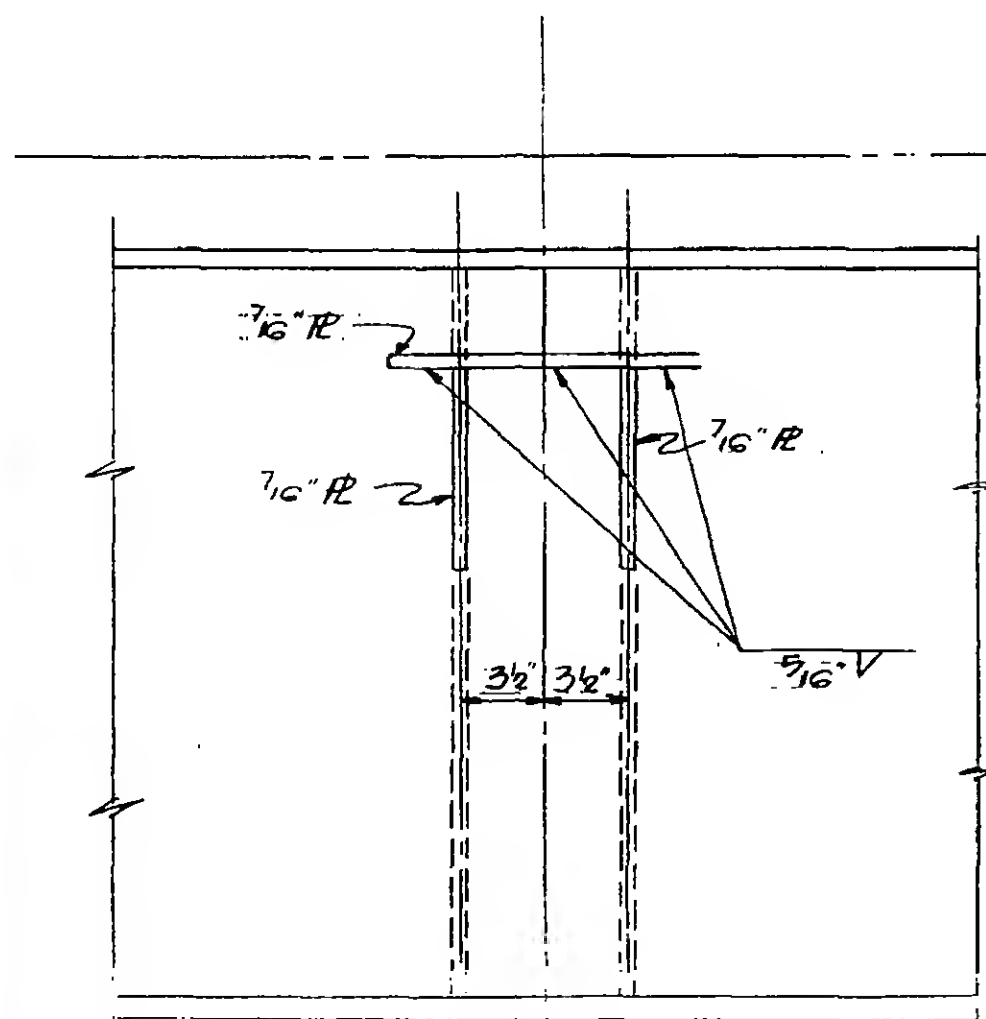
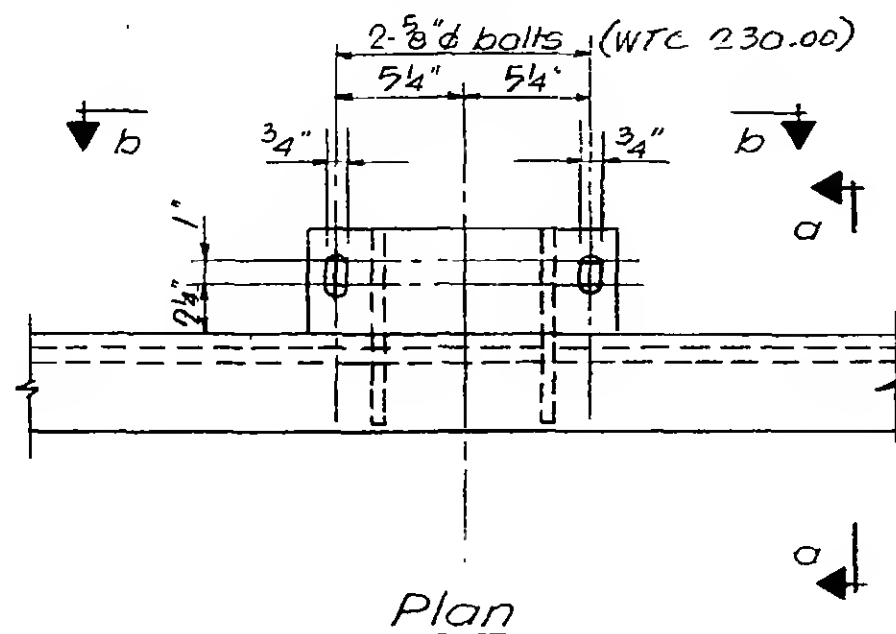
Section b-b



Section a-a



REVISIONS



Section b-b

Section a-a

6-AB8-49

PROJECT THE WORLD TRADE CENTER

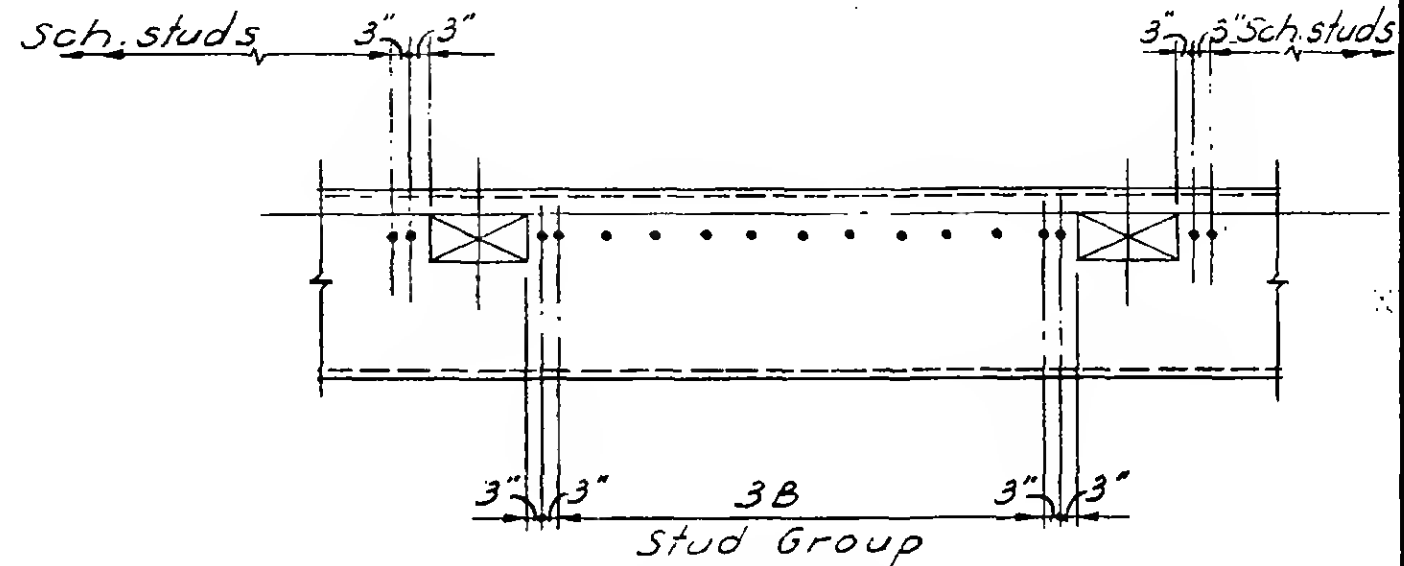
TITLE CORE PERIMETER STUD SCHEDULE

DATE 11-22-67

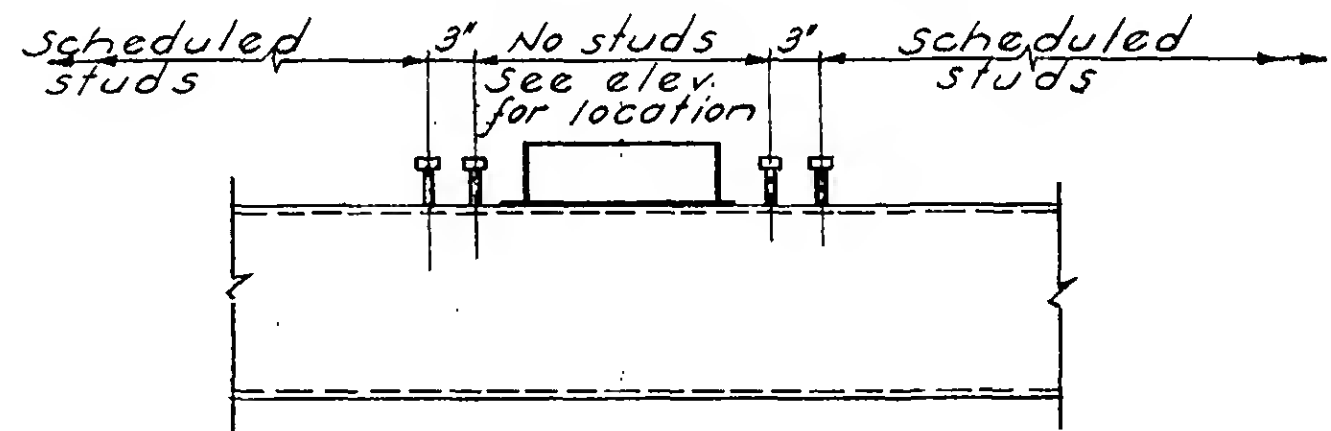
REVISIONS

Stud Group	Size	Spacing
1A	$\frac{3}{4} \times 3$	12"oc
4A	$\frac{3}{4} \times 3$	15"oc
7A	$\frac{3}{4} \times 3$	18"oc
1B	$\frac{3}{4} \times 7\frac{5}{16}$	12"oc
3B	$\frac{3}{4} \times 7\frac{5}{16}$	6"o.c
4B	$\frac{3}{4} \times 7\frac{5}{16}$	15"oc
7B	$\frac{3}{4} \times 7\frac{5}{16}$	18"oc
1C	$\frac{3}{4} \times 4\frac{1}{2}$	12"oc
4C	$\frac{3}{4} \times 4\frac{1}{2}$	15"oc
7C	$\frac{3}{4} \times 4\frac{1}{2}$	18"oc
2D	$\frac{5}{8} \times 2\frac{1}{2}$	9"oc
5D	$\frac{5}{8} \times 2\frac{1}{2}$	11"oc
8D	$\frac{5}{8} \times 2\frac{1}{2}$	14"oc
3E	$\frac{1}{2} \times 2$	6"oc
6E	$\frac{1}{2} \times 2$	7"oc
9E	$\frac{1}{2} \times 2$	9"oc

Placement type
See 6-AB8-50.1



TYP. STUD GROUP
@ ELECTRIC CLOSET



TYP. DETAIL HEADER DUCT

See 5-AB3-2 for detail at power/tele. cells

Note:

See 5-AB3-1 for General Notes

See 5-AB3-2 for Typical Details.

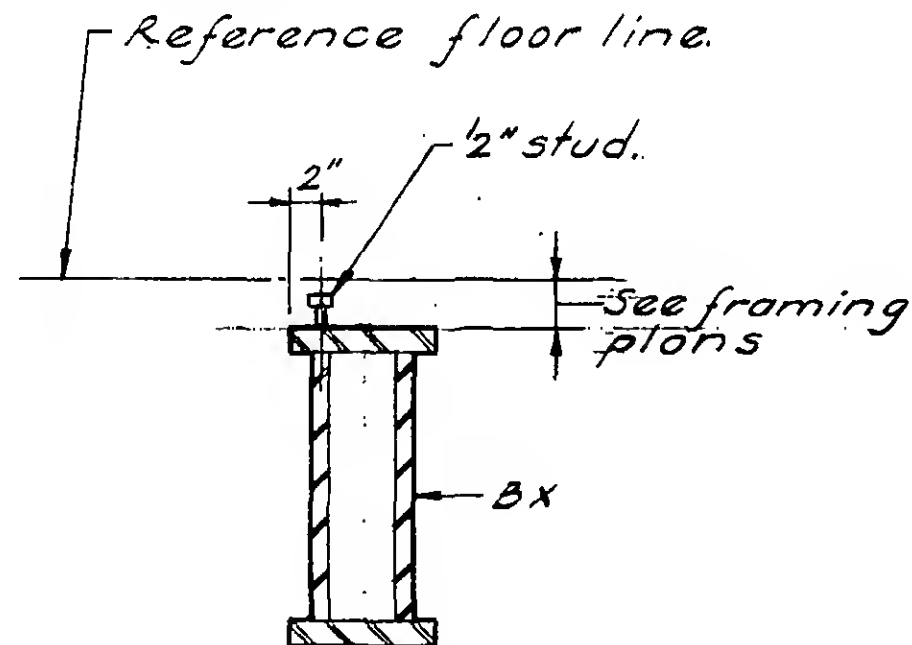
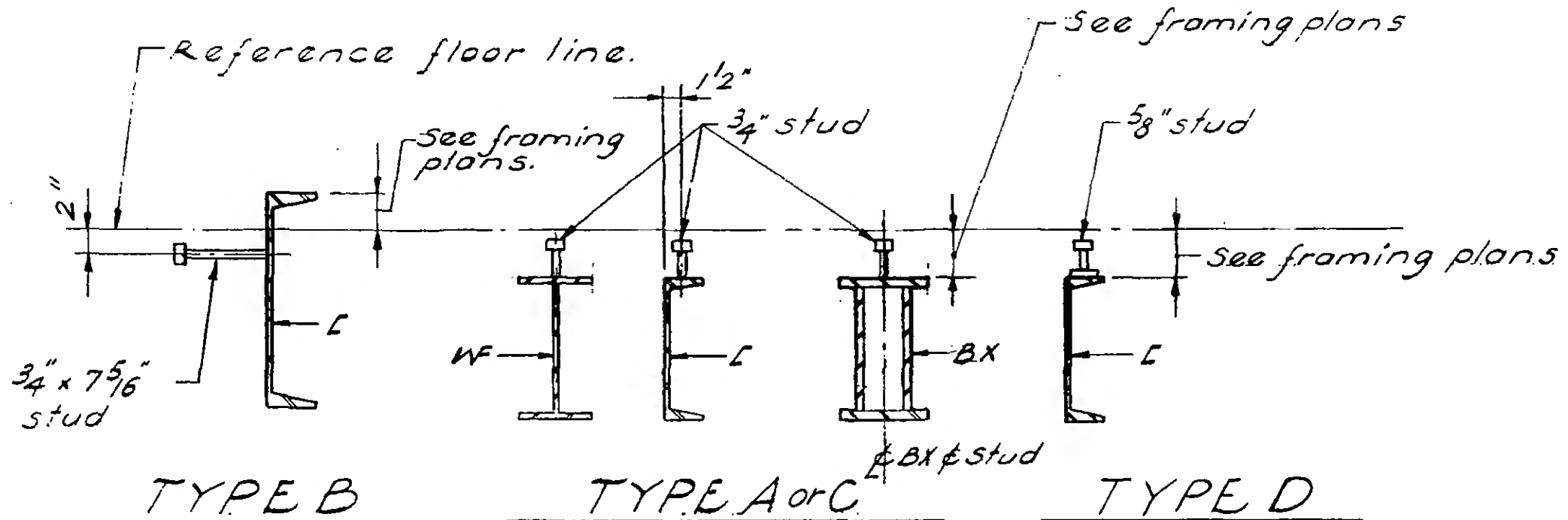


PROJECT THE WORLD TRADE CENTER

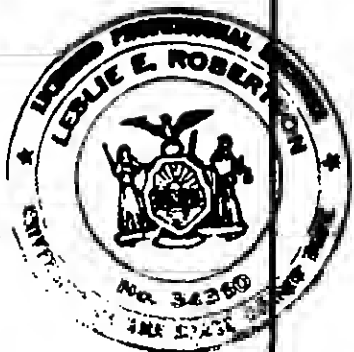
TITLE CORE PERIMETER STUD DETAILS

DATE 11-22-67

REVISIONS

Note:

For stud location and spacing
refer to core perimeter elevations
and core perimeter stud schedule
Drawing book 6-AB8

TYPE E

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON

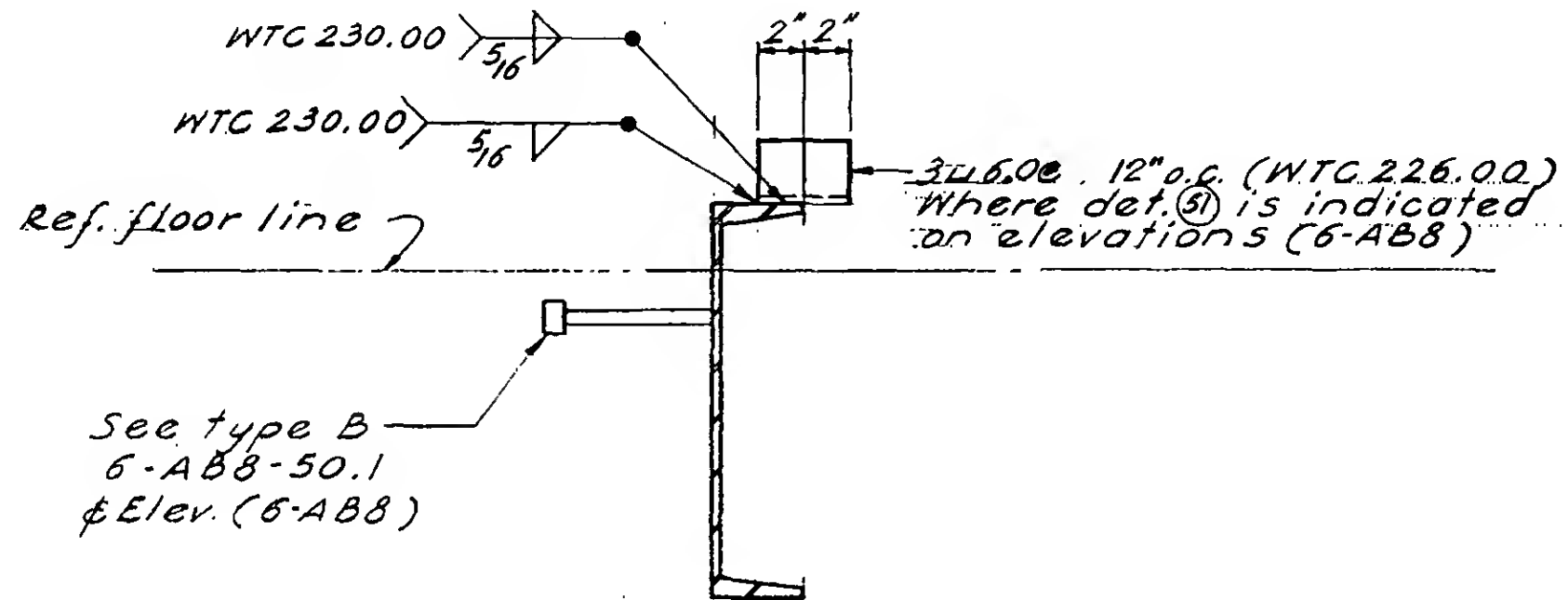
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE CORE PERIMETER DETAIL 51

DATE 11-22-67

REVISIONS



6-AB8-51

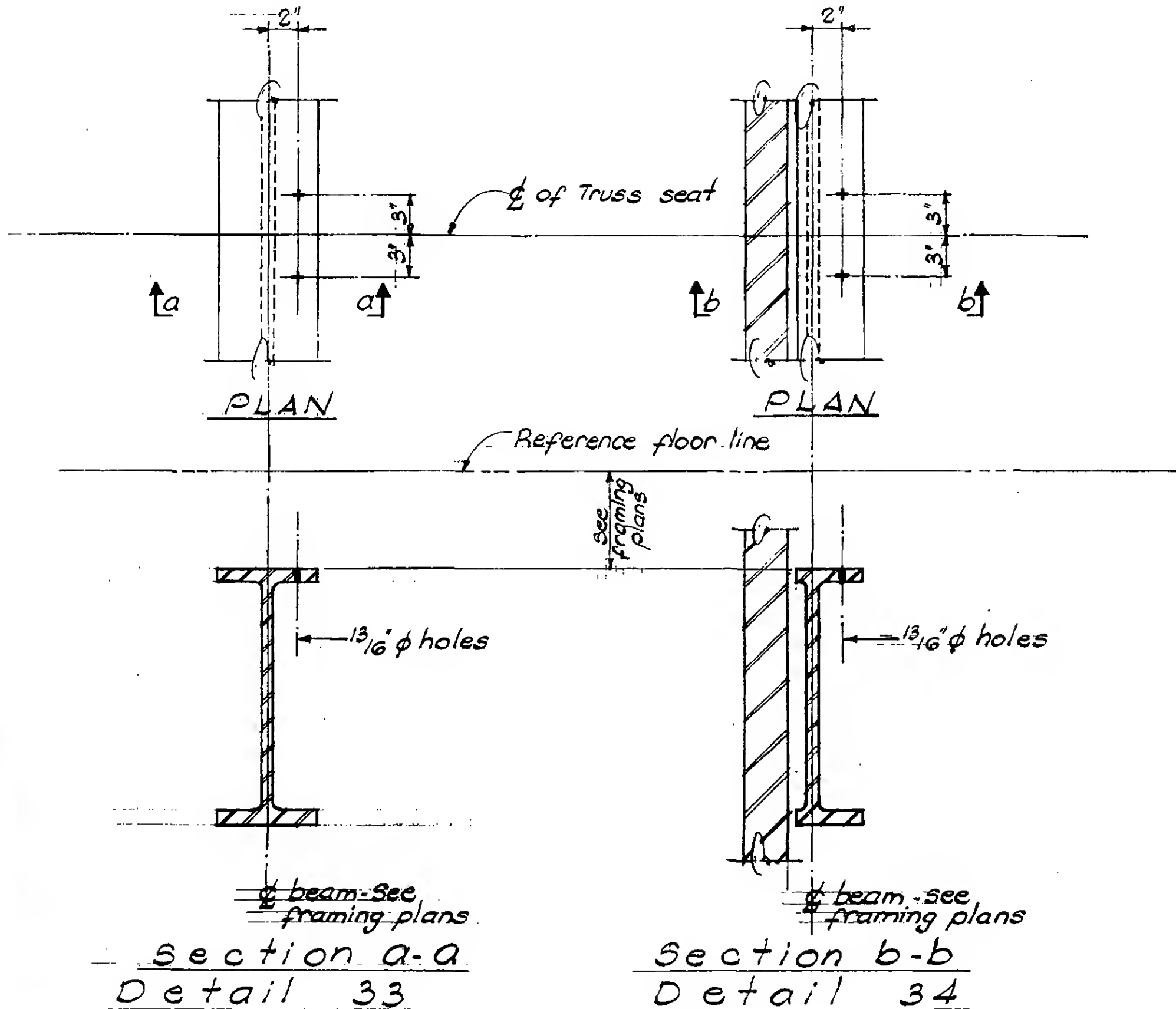
Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER

TITLE TRUSS SEAT DETAIL 33 / 34

DATE 9-18-68

REVISIONS



DESIGNED

DRAWN

REVIEWED

6-488-52

PROJECT

THE WORLD TRADE CENTER

TITLE

TEMP. FRAMING FOR ELEVATOR #6 & #7

DATE

12-15-67

REVISIONS

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3-29-68

1-3-69

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3-3-69

4-1-69

Printed 5-1-69

GENERAL NOTES

1. Provide 3 beams each Mk [B1], [B2] & [B3].
Provide 2 beams each Mk [B4] & [B5].
2. Connection material shall be shop welded to column shafts, except where column has been fabricated complete and stored, Connection material shall be fabricated and supplied under contract WTC 217.00 and field welded to column under contract WTC 230.00.
3. All temporary connection material for elevator framing shall be removed after elevator machinery has been relocated

INDEX

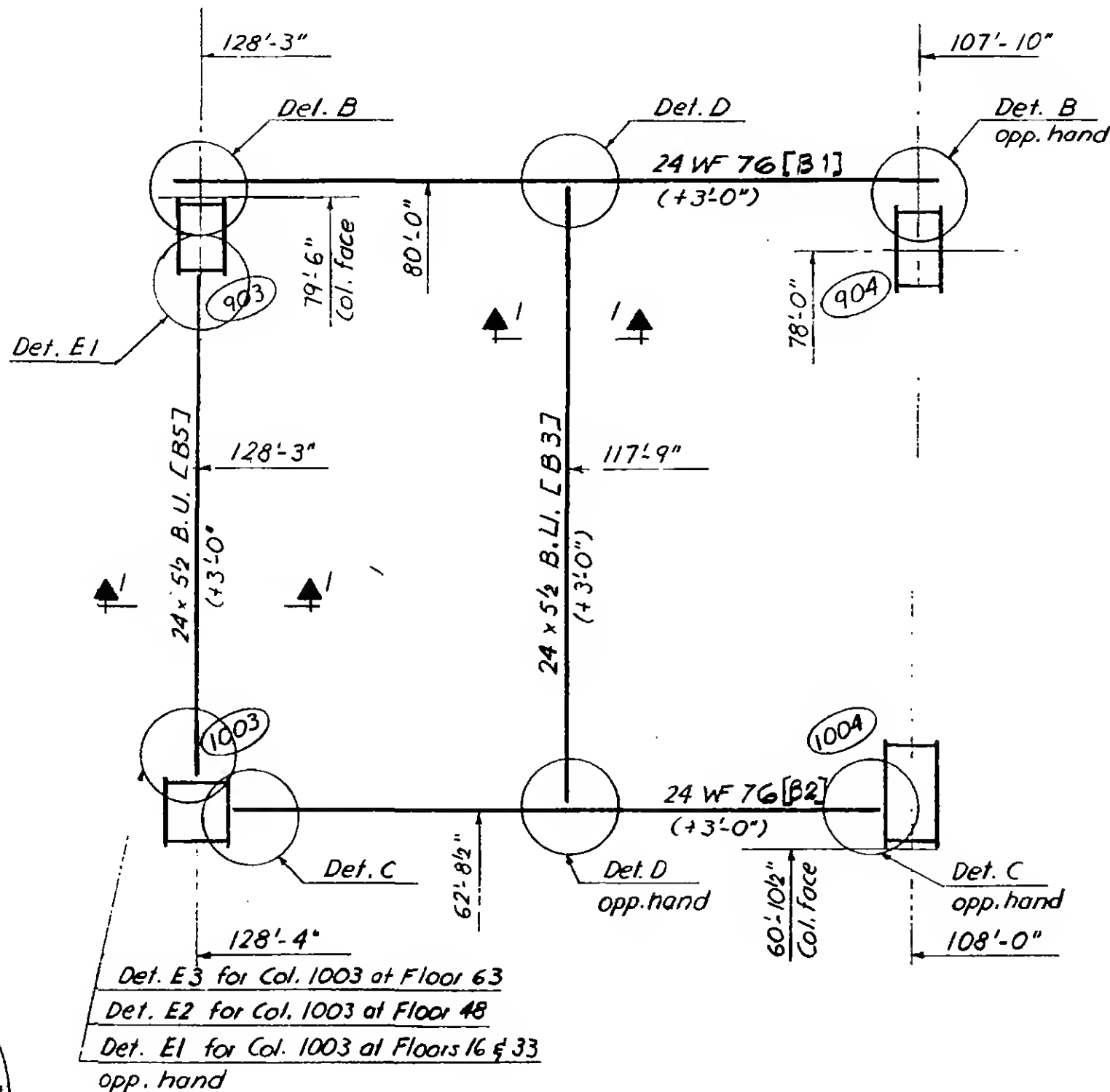
6-AB9-0	Date sheet
6-AB9-1	General Notes & Index
6-AB9-2	Temporary Framing Plan for Elevator #7 at Floors 16, 33, 48, 63
6-AB9-3	Temporary Framing Plan for Elevator #6 at Floors 12, 24, 41, 54
6-AB9-4	Temporary Framing for Elevator #6 & #7 - Detail A & B
6-AB9-5	Temporary Framing for Elevator #6 & #7 - Detail D
6-AB9-6	Temporary Framing for Elevator #6 & #7 - Detail C
6-AB9-7	Temporary Framing for Elevator #6 & #7 - Detail E
6-AB9-8	Temporary Framing for Elevator PE #44 at Floor 7
6-AB9-9	Temporary Framing for Elevator PE #44, details A & B.



PROJECT THE WORLD TRADE CENTERTITLE TEMPORARY FRAMING PLAN FOR ELEVATOR #7
AT FLOORS 16, 33, 48, 63DATE 12-15-67

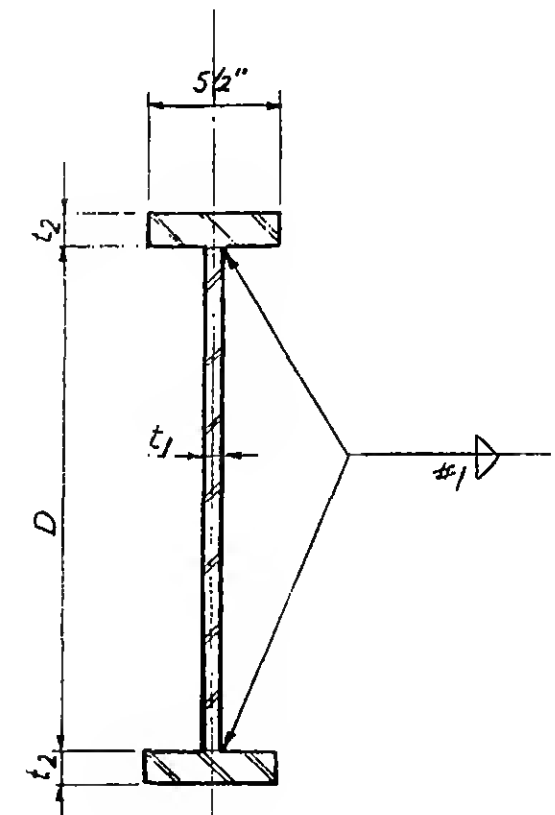
REVISIONS

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SCHEDULE

Beam	D(in)	t ₁ (in)	t ₂ (in)	Weld #1(in)
B3	21	3/4	1/2	3/8
B5	22	3/8	1	5/16

Section 1-1Notes:

- 1) All steel $F_y = 36$ ksi
- 2) Top of steel at +3'-0" above reference floor except as shown.
- 3) See 6-AB9-4, 5, 6 & 7 for details.
- 4) See Dwg. Book #3 for column schedules.



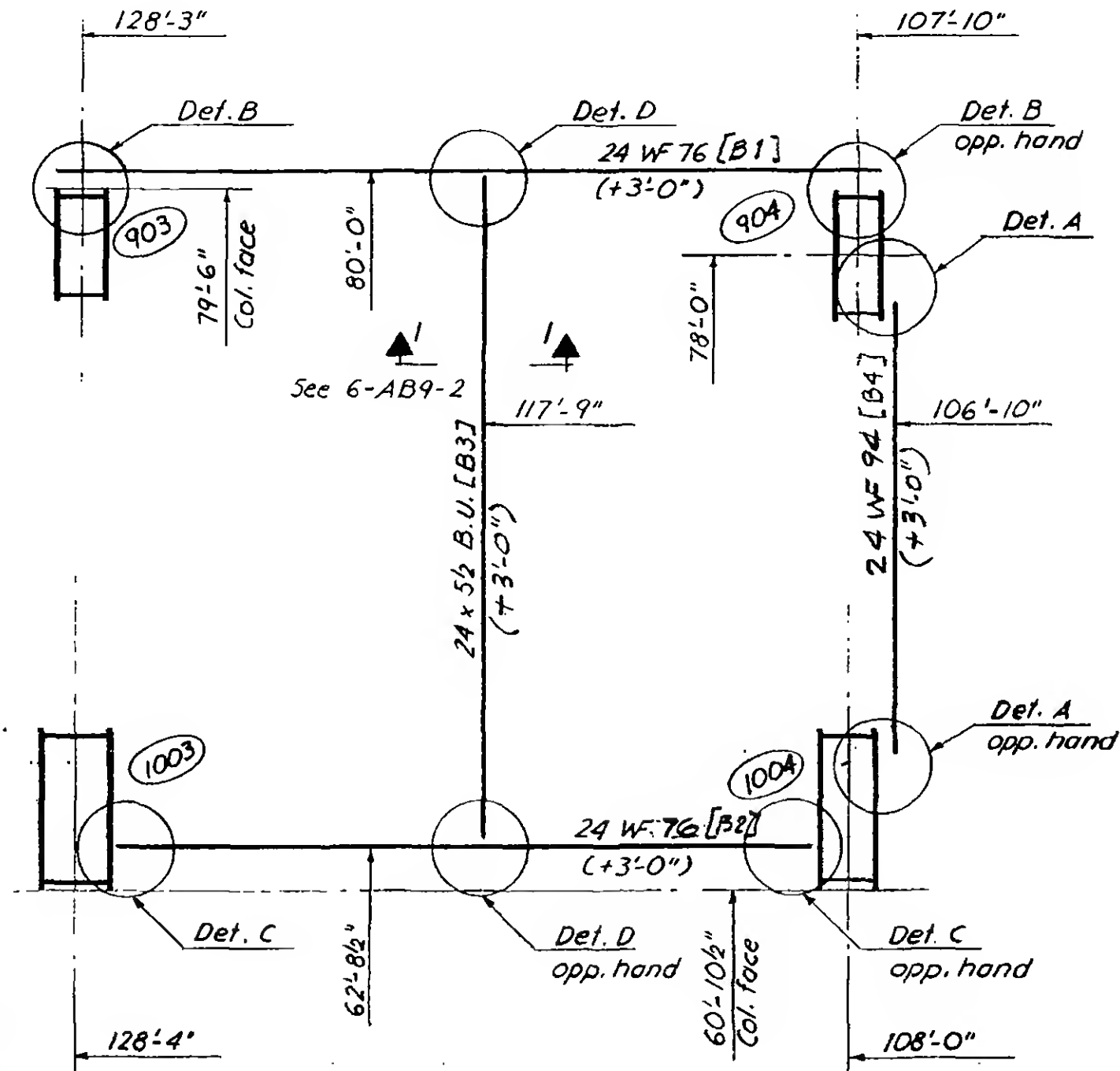
PROJECT THE WORLD TRADE CENTER

TITLE TEMPORARY FRAMING PLAN FOR ELEVATOR #6
AT FLOORS 12, 24, 41, 54

DATE 12-15-67

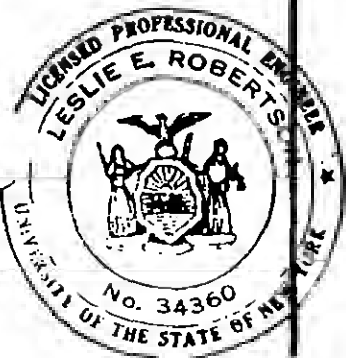
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Notes:

- 1) All steel $F_y = 36$ ksi
- 2) Top of steel at +3'-0" above reference floor except as shown.
- 3) See 6-AB9-4,5,6,7 for details.
- 4) See Book #3 for column sch.



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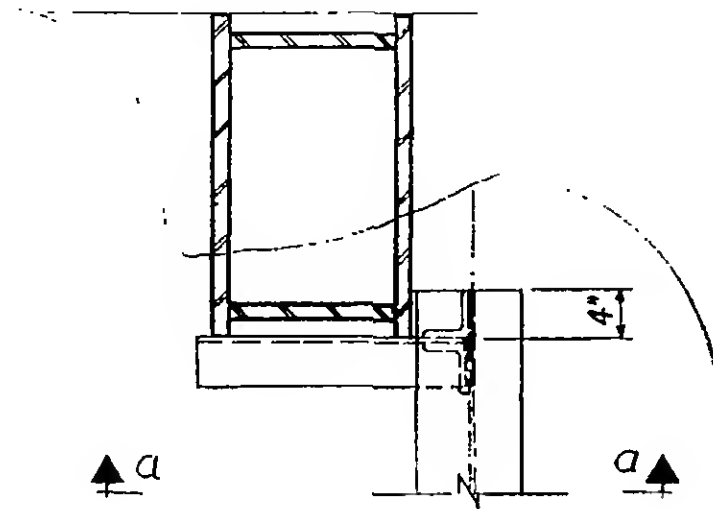
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TITLE TEMP. FRAMING FOR ELEVATOR 6 & 7- DETAIL A & B

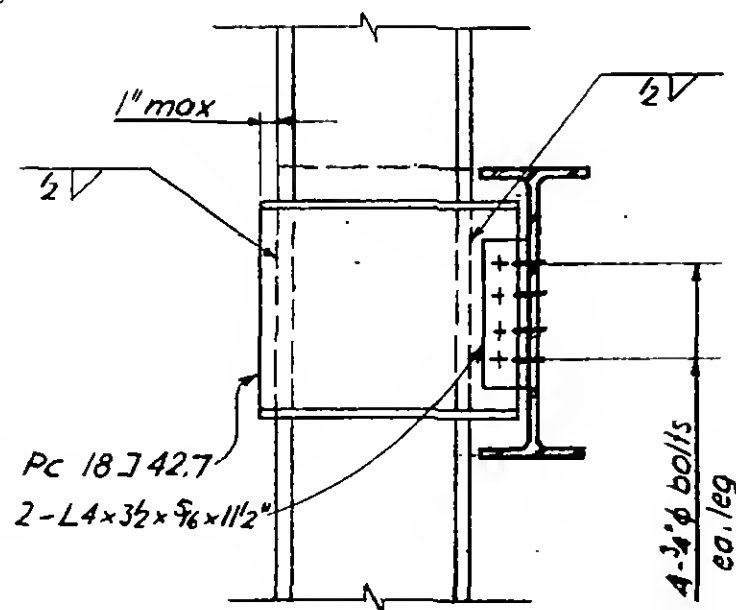
DATE 12-15-67

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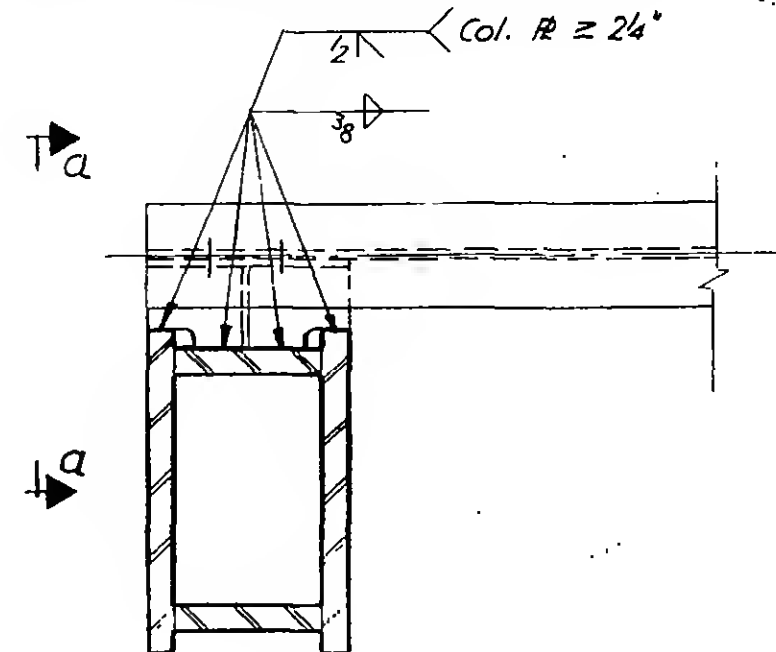


Plan

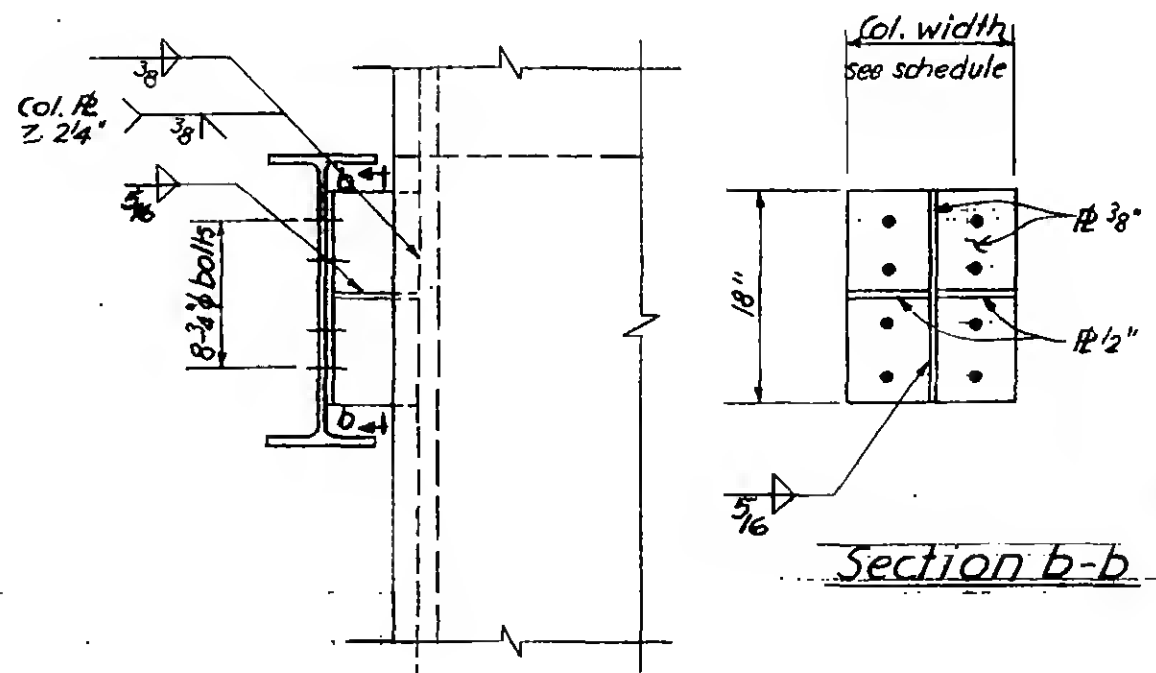


Section a-a

Detail A

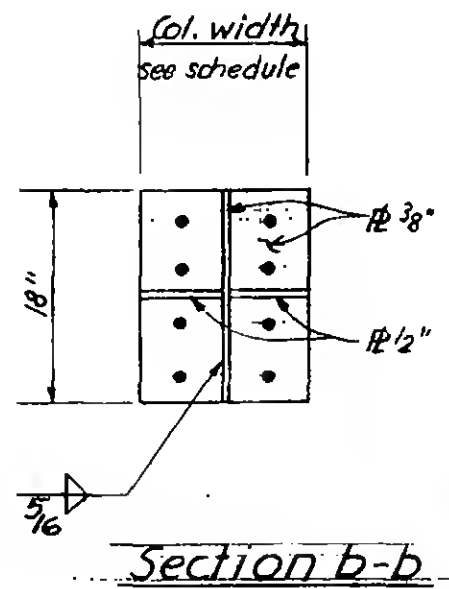


Plan



Section a-a

Detail B



Section b-b



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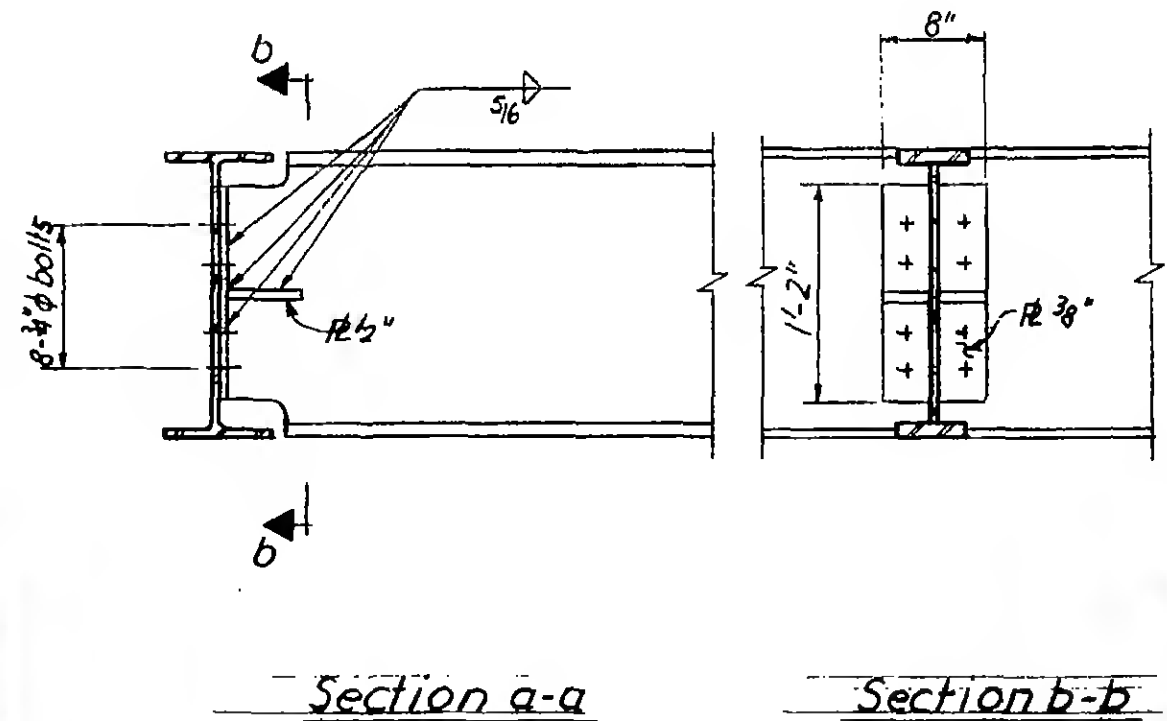
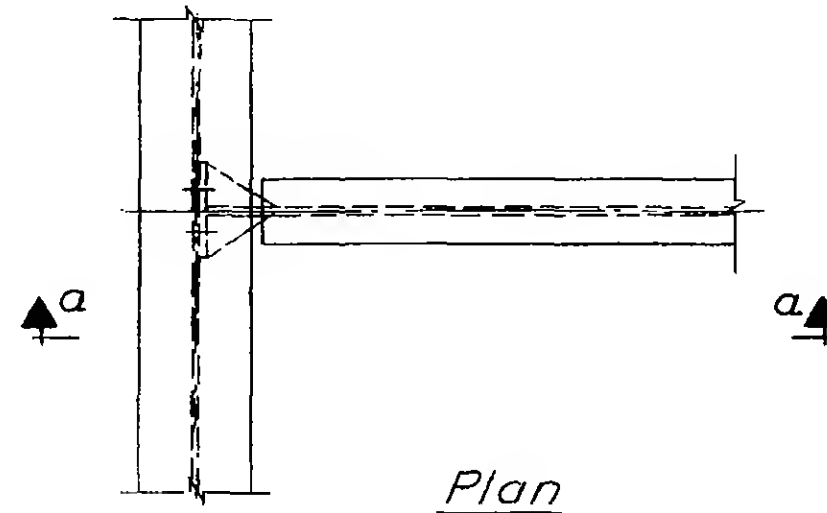
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TITLE TEMP. FRAMING FOR ELEVATOR #6 & 7-DETAIL D

DATE 12-15-67

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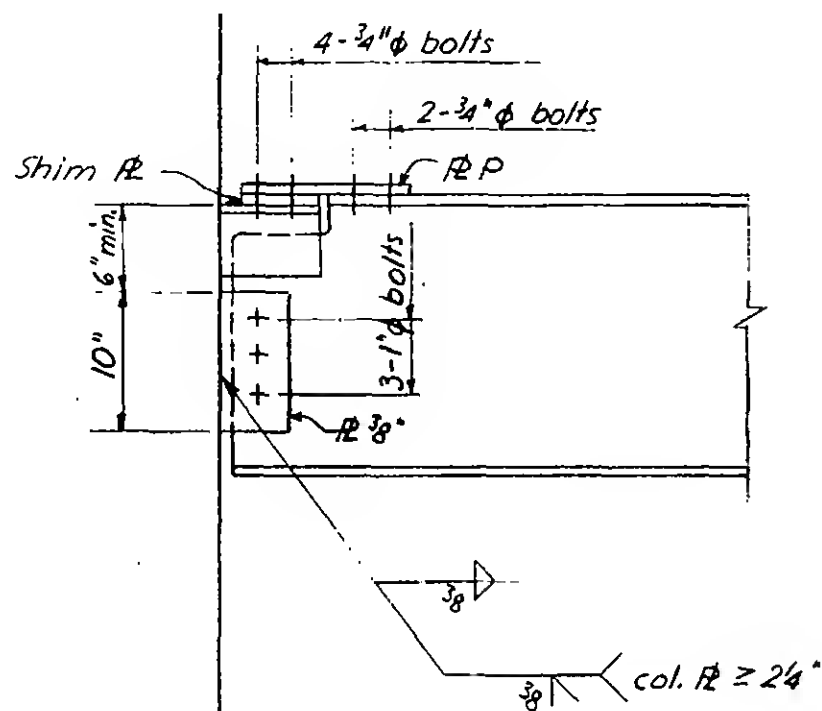


Detail D

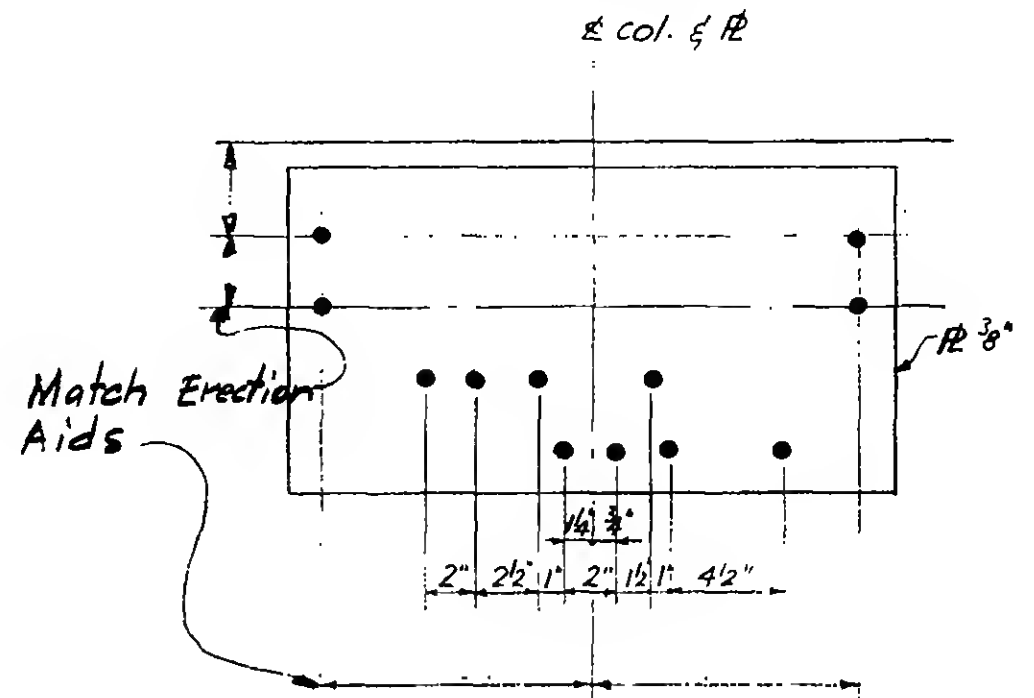
6-AB9-5



REVISIONS

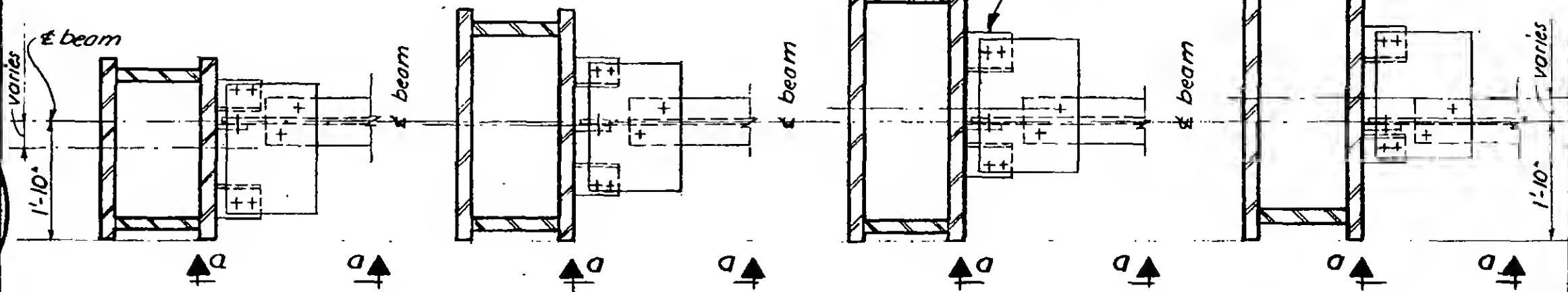


Section a-a



R P

Note: All bolt holes are for 3/4" ϕ bolts



Plan

Col. 1003 Floor 63

Plan

Col. 1003 Floor 54

Plan

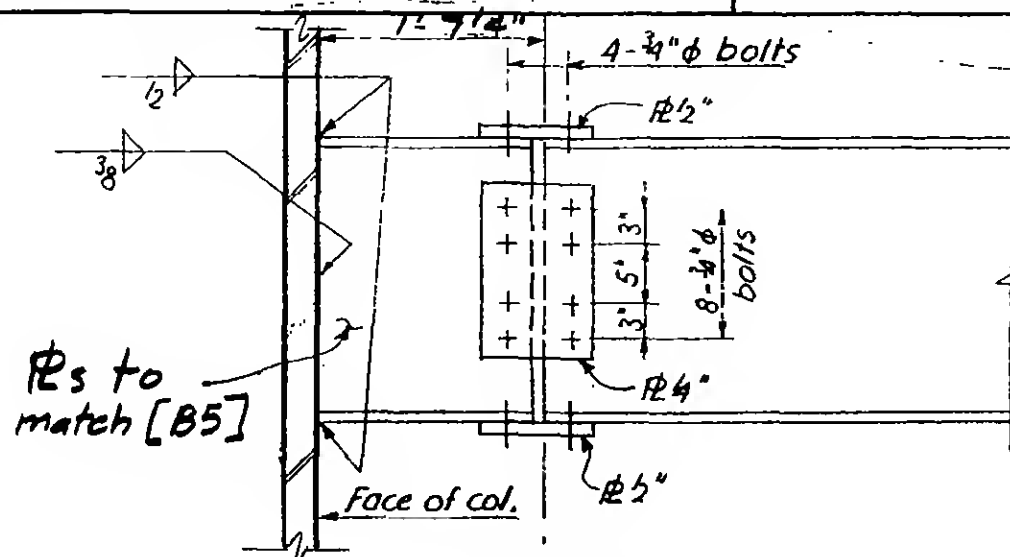
Col. 1003 Floor 48
Col. 1004 Floor 63

Plan

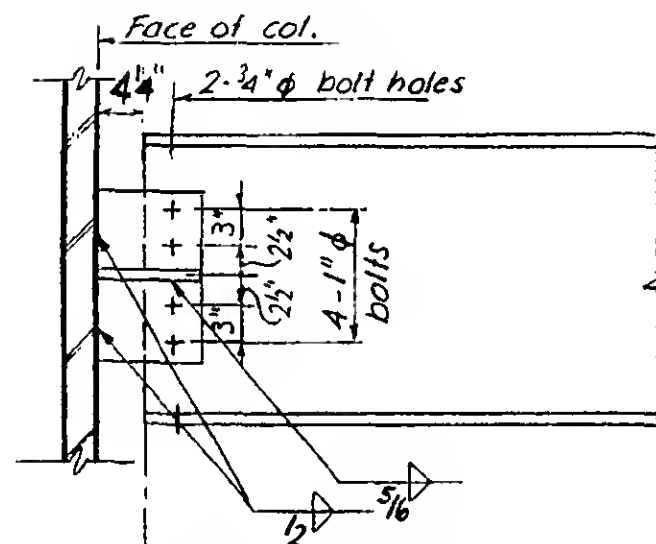
All other cases



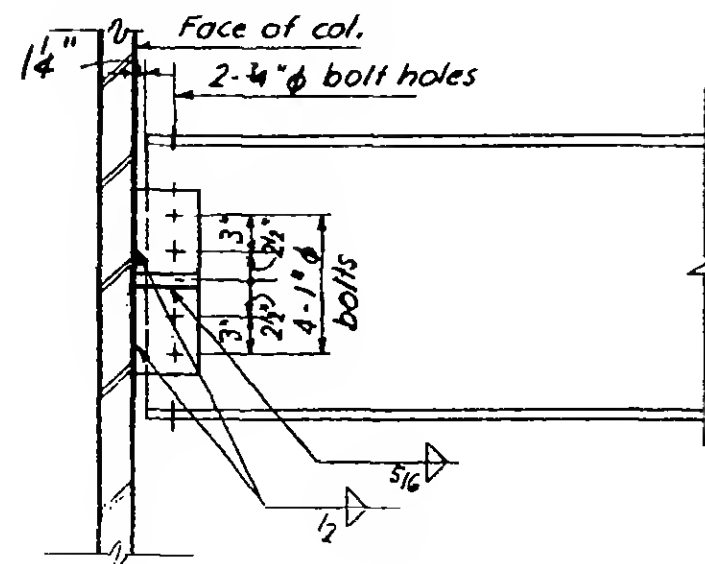
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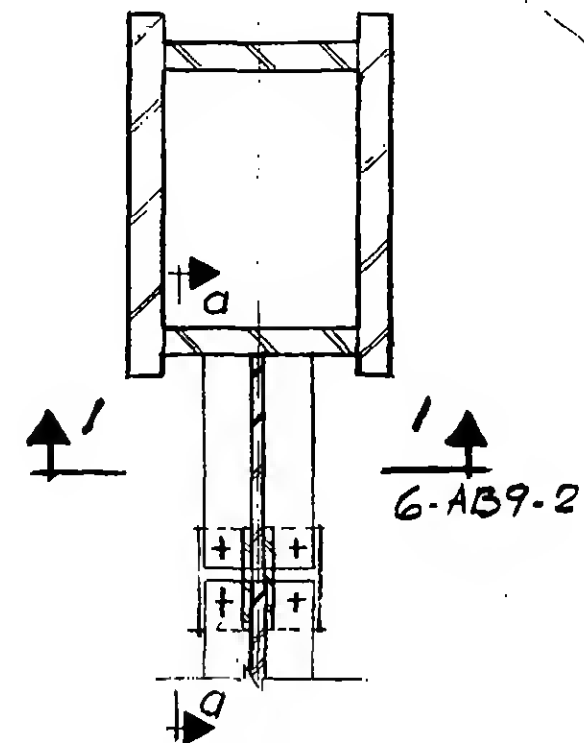
Section a-a - E3



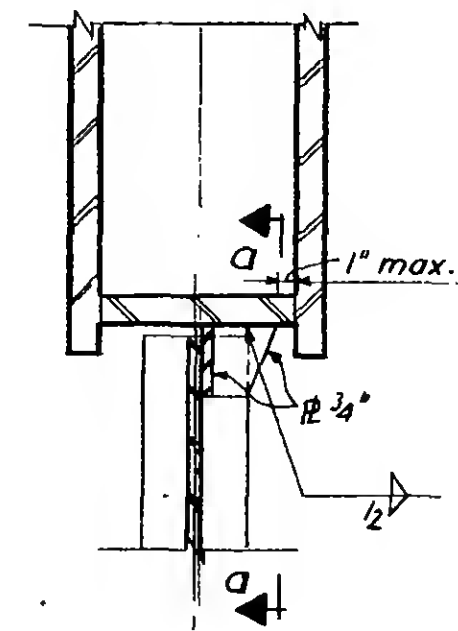
Section a-a - E2



Section a-a - EI



Plan E3



Plan E1 & E2



6-AB9-7

PROJECT

THE WORLD TRADE CENTER

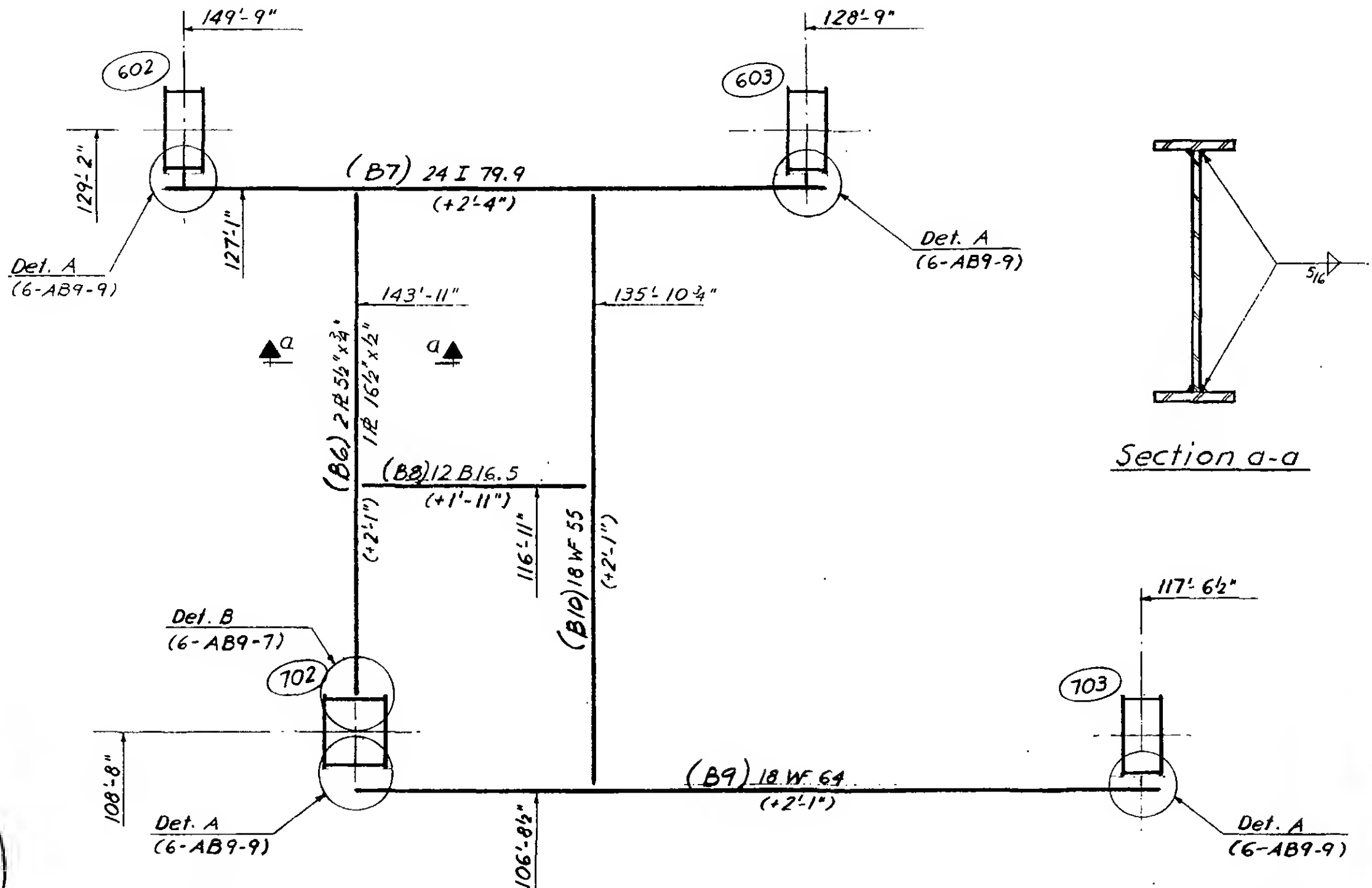
TITLE

TEMPORARY ELEVATOR SUPPORT @ 7TH FLOOR

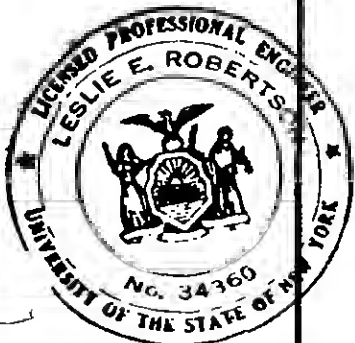
DATE

3-29-68

REVISIONS



Note: Beams and connections to columns shall be removed after temporary elevator machines have been relocated.



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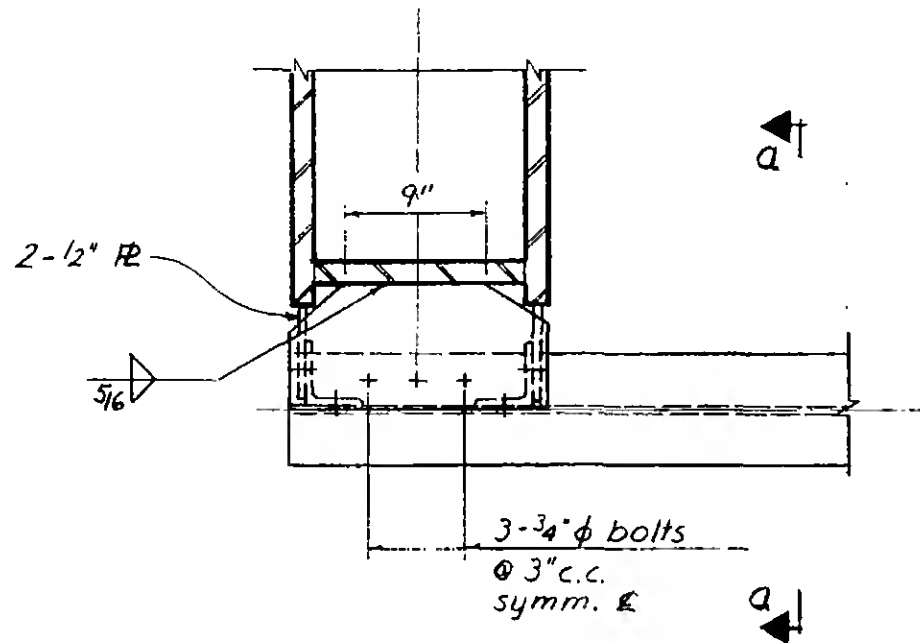
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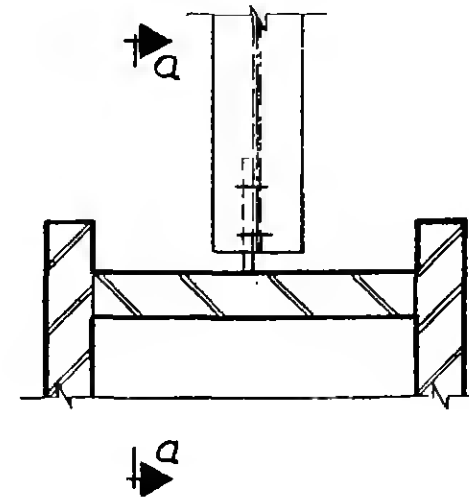
TITLE TEMPORARY ELEVATOR SUPPORT @ 7TH FL.-DETAILS

DATE 3-29-68

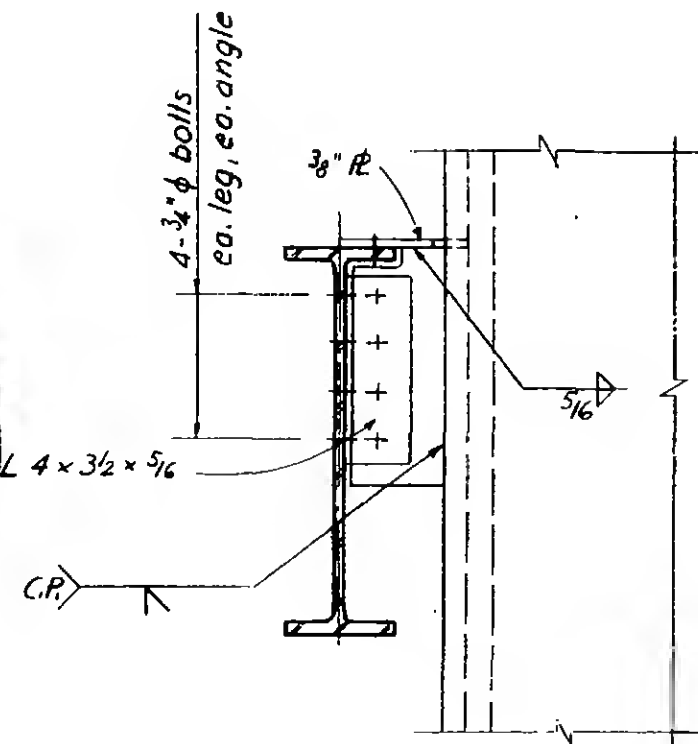
REVISIONS



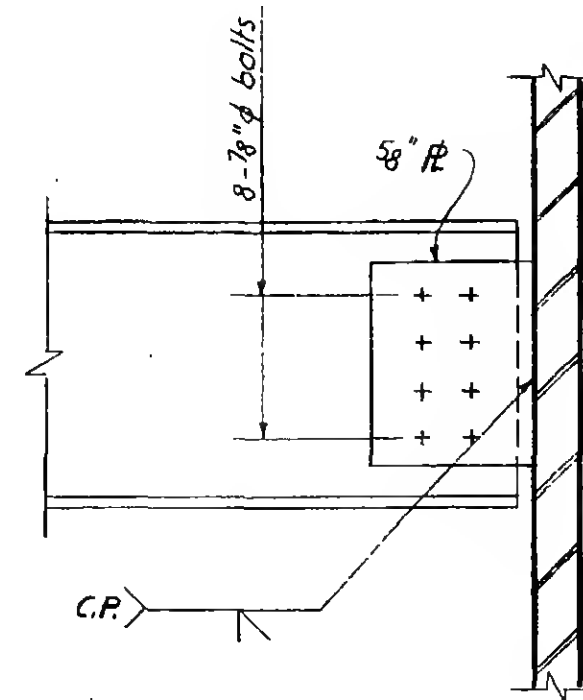
Plan
Detail A



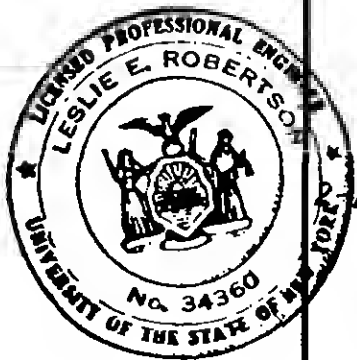
Plan
Detail B



Section a-a



Section a-a



6-AB9-9