

ENGINEERING NOTES, CONT'D.

53. FRAMEWORK INSTALLING METHODS ARE SPECIFIED FOR USE WITH EITHER INTEGRATED OR ISOLATED (FLOATING) GROUND SYSTEMS. SEE SYSTEMS REQUIREMENTS OR BSP 802-001-180 FOR METHOD TO USE, AND FOR THE THREE EARTHQUAKE REGIONS DEFINED IN BSP 800-610-164 NEW EQUIPMENT BUILDING STANDARD  
 REGION A - MAJOR EARTHQUAKE REGION.  
 REGION B - MODERATE EARTHQUAKE REGION.  
 REGION C - MINOR EARTHQUAKE REGION.
54. FRAMEWORKS INSTALLED IN REGION A AND B, MAJOR AND MODERATE EARTHQUAKE REGIONS, RESPECTIVELY, SHALL BE FASTENED TO THE FLOOR AT FOUR ATTACHING POINTS FOR EACH EQUIPMENT BAY. FOR REGION C, THE MINOR EARTHQUAKE REGION, EACH FRAMEWORK SHALL BE FASTENED TO THE FLOOR AT TWO POINTS IN DIAGONALLY OPPOSITE CORNERS.
55. FRAMEWORKS INSTALLED FOR ISOLATED (FLOATING) GROUND SYSTEMS IN ACCORDANCE WITH FIGURES 13A, 14A OR 15A SHALL HAVE THE EFFECTIVENESS OF THE INSULATION TESTED IN ACCORDANCE WITH FIG. 12. THE TEST MUST BE PERFORMED AS EACH FRAMEWORK IS INSTALLED, LEVELLED AND FASTENED, BUT PRIOR TO ATTACHING TO THE CABLE RACK.
56. IF REINFORCING RODS ARE STRUCK DURING FLOOR PENETRATION WHEN INSTALLING THE ANCHORING DEVICE, ALTERNATE LOCATIONS SHALL BE SELECTED AS SHOWN IN FIG. 10.
57. FLOOR MOLDING SHALL BE INSTALLED IN ACCORDANCE WITH FIG. 11.

MANUFACTURING NOTES

1. ALL PARTS SHIPPED SEPARATELY.

2. MAY BE OBTAINED FROM CERTIFIED THREADED FASTENER INC., 2451 N. PULASKI RD., CHICAGO, ILL. OR EQUIVALENT. SPECIFY PART WITH YELLOW ZINC DICHROMATE.

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IN SL. ON LINE 30, 1/2-13 WAS 1/2-16.

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QTY	IDENT. NO.	DESCRIPTION	NOTE	LINE									
12	8 4	STUD	1/2-18 x 3-1/4	2 30									
	12 8 4	STUD	3/8-16 x 2-3/4	2									
	2	STUD	3/8-16 x 2-1/2	2									
	4	R46P748	SPACER										
	8	R46P747	SPACER	25									
12	8 4	841064777	HEX NUT	3/8-16									
	12 8 4	841064793	HEX NUT	1/2-13									
	12 8 4	R44H604	WASHER	3/8									
12	8 4	R42E191	WASHER	1/2									
	12 8 4	841630163	INSULATING BUSHING										
	12 8 4	841628639	INSULATING BUSHING										
	12 8 4	841628621	INSULATING BUSHING	15									
12	8 4	841630155	HOLD DOWN WASHER										
	12 8 4	841628571	HOLD DOWN WASHER										
6	4 2	841628563	HOLD DOWN PLATE	10									
	12 8 4	841628589	INSULATOR										
24	16 8	841628613	SPACER	.250									
24	16 8	841628605	SPACER	.125									
24	16 8	841628597	SPACER	.063									
	12 8 4	841209729	SELF DRILL ANCHOR	3/8"									
	12 8 4	841209737	SELF DRILL ANCHOR	1/2"									
G-14	G-13	G-12	G-11	G-10	G-9	G-8	G-7	G-6	G-5	G-4	G-3	G-2	G-1
STOCKLIST													
C B A COL													

SH NO.	ISSUE
5	1
4	1
3	1
2	1
1	1

SHEET INDEX

ED-97785-30

ENGINEERING NOTES

52. ASSOCIATED DRAWINGS:  
 ED-97735-70 SINGLE BAY FRAMEWORK  
 ED-97736-70 DOUBLE BAY FRAMEWORK  
 ED-97737-70 TRIPLE BAY FRAMEWORK

NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

ISSUE 2

COMMON SYSTEM  
 ELECTRONIC CENTRAL OFFICE TYPE  
 METHOD OF INSTALLING  
 UNIFRAME FRAMEWORK

WESTERN ELECTRIC

ED-97785-30

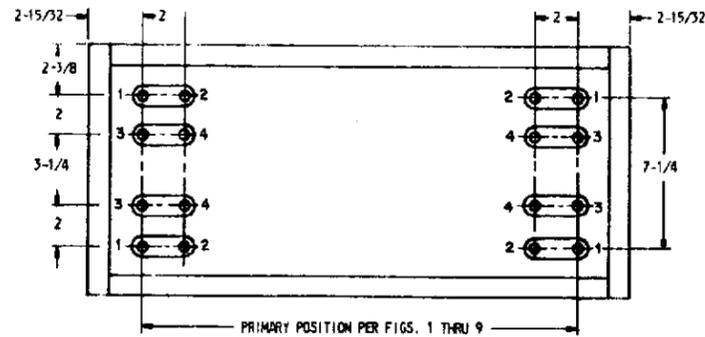
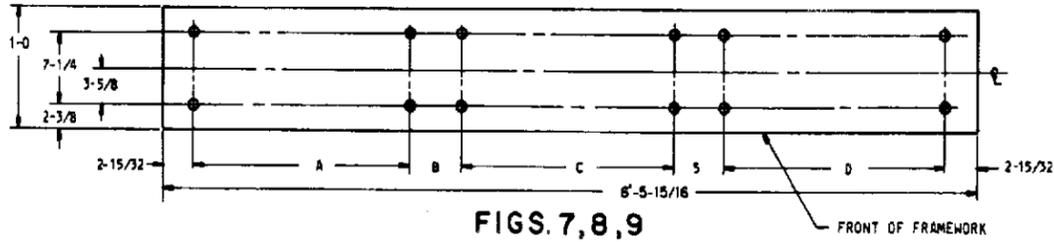
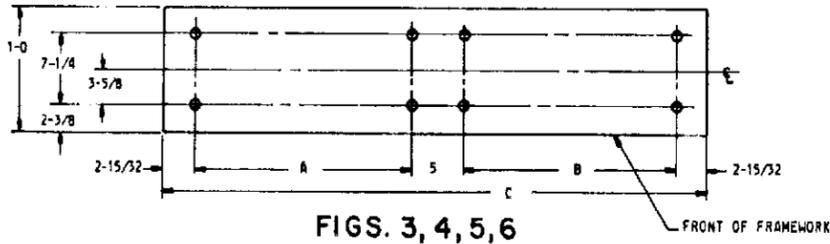
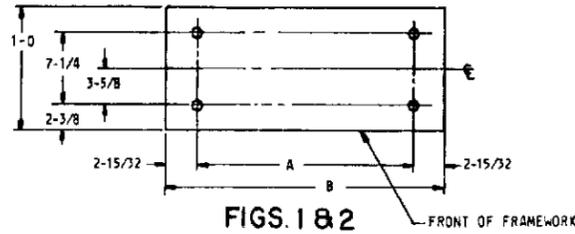
5 SHEETS  
 SHEET 1

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LINE	ASSEMBLY	GROUP	HOLE PATTERN
1	ED-97735-70	1	FIG. 1
2		2	FIG. 1
3		3	FIG. 1
4		4	FIG. 2
5	ED-97736-70	1	FIG. 3
6		2	FIG. 4
7		3	FIG. 5
8		4	FIG. 3
9	ED-97737-70	5	FIG. 6
10		1	FIG. 7
11		2	FIG. 8
12		3	FIG. 9

\* SEE NOTE 20

FIG. NO.	DIMENSION			
	A	B	C	D
FIG. 1	1'-9"	2'-1-15/16"		
FIG. 2	2'-10"	3'-2-15/16"		
FIG. 3	1'-9"	1'-9"	4'-3-15/16"	
FIG. 4	1'-3-9/16"	1'-1-7/8"	3'-2-15/16"	
FIG. 5	1'-2-1/2"	1'-2-1/2"	3'-2-15/16"	
FIG. 6	2'-10"	2'-10"	6'-5-15/16"	
FIG. 7	1'-9"	5"	1'-9"	1'-9"
FIG. 8	2'-1"	0'-4-1/8"	1'-1-15/16"	2'-0-15/16"
FIG. 9	2'-2"	5"	11"	2'-2"



NOTE 2A -

IF INTERFERENCE WITH FLOOR REINFORCING BAR OCCURS DURING INSTALLATION OF ANCHORING DEVICE AT "1" (PRIMARY ATTACHMENT LOCATION), THEN ALTERNATE LOCATIONS "2", "3" AND "4" SHALL BE SELECTED AS FOLLOWS:

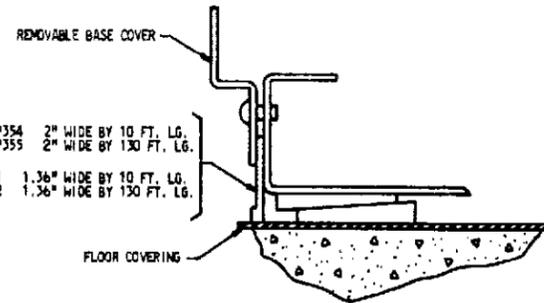
LOCATION "2" - IF INTERFERING BAR AT "1" RUNS PERPENDICULAR TO EQUIPMENT LINEUP.

LOCATION "3" - IF INTERFERING BAR AT "1" RUNS PARALLEL TO EQUIPMENT LINEUP.

LOCATION "4" - PERMITTED ONLY IF TWO REINFORCING BARS, RUNNING PERPENDICULAR AND PARALLEL RESPECTIVELY, CROSS AT "1".

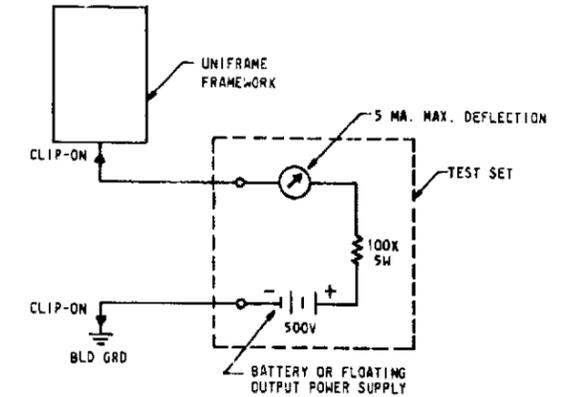
NOTE 20 -

IN REGION C DRILL ONLY THE DIAGONAL OPPOSITE CORNERS OF FRAME TO BE ANCHORED TO THE FLOOR.



NOTE 2B -

THE BASE MOLDING SHALL BE INSTALLED ON THE FRONT AND REAR OF THE EQUIPMENT LINEUP, RUN CONTINUOUSLY ACROSS ALL FRAMEWORKS WITHOUT INTERRUPTION EXCEPT FOR THE BUTTING OF ADJACENT LENGTHS. THE WIDTH SHALL BE SELECTED TO PERMIT ADJUSTMENT TO MEET THE FLOOR AND PROVIDE ADEQUATE CLAMPING BETWEEN THE FRAMEWORK BASE AND THE REMOVABLE BASE COVER.



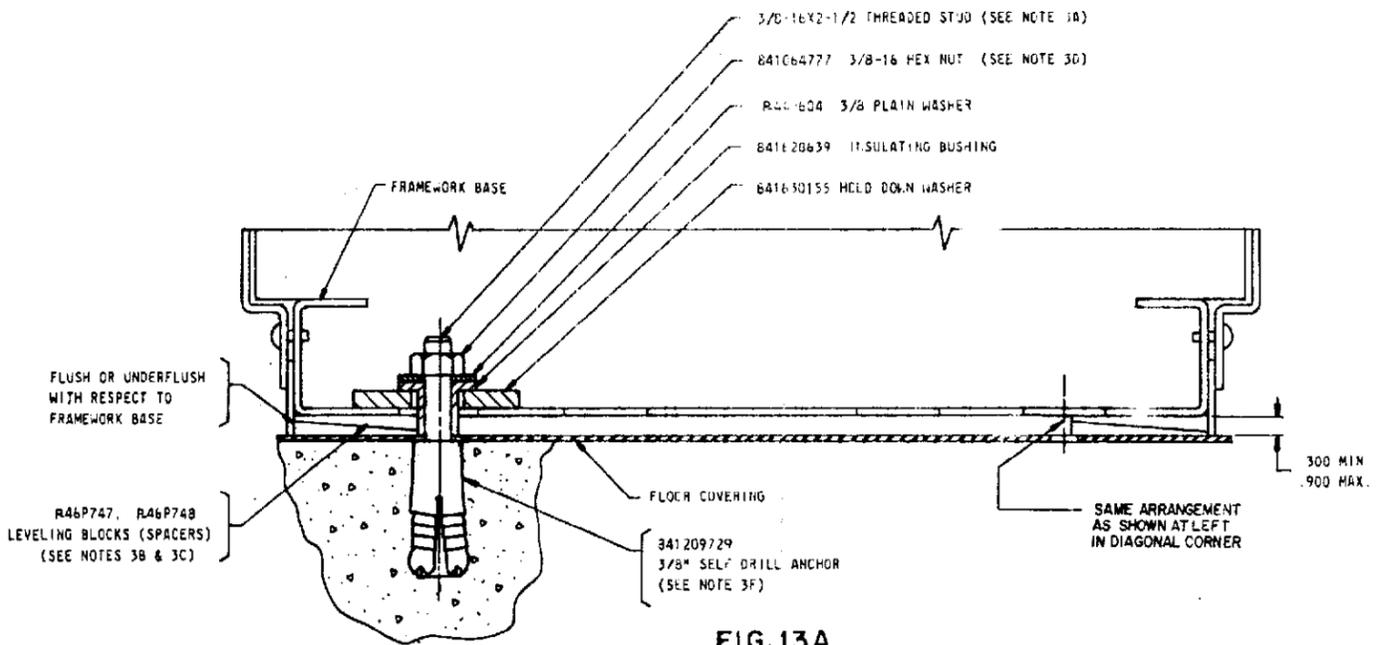
NOTE 2C -

THE EFFECTIVENESS OF THE FRAMEWORK INSULATION FROM BUILDING GROUND SHALL BE CHECKED FOR EACH FRAMEWORK AS IT IS INSTALLED. THIS MAY BE DONE BY APPLYING ± 500V D.C. BETWEEN THE FRAMEWORK AND THE BUILDING GROUND AS SHOWN. CURRENT LEAKAGE SHALL NOT EXCEED 5 M.A. (A LIMITING RESISTOR SHOULD BE USED IN CASE OF A SHORT)

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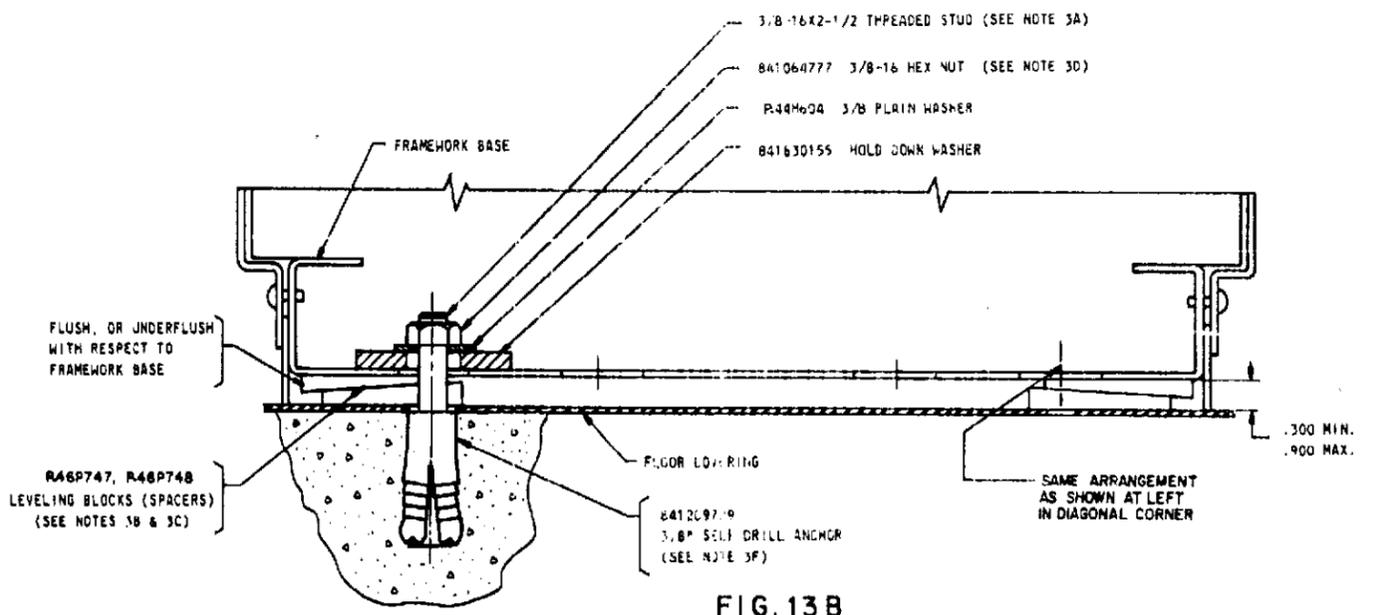
COMMON SYSTEM METHOD OF INSTALLING UNIFRAME FRAMEWORK	ED-97785-30 SHEET 2
WESTERN ELECTRIC	1 65

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**FIG. 13A**  
 ISOLATED (FLOATING) GROUND ATTACHMENT  
 (GROUP 1)  
 FLOOR ATTACHMENTS FOR REGION C (MINOR EARTHQUAKE REGION)

- NOTES:
- 3A. STUDS SHALL BE INSTALLED TO THE FULL DEPTH OF THE THREAD IN THE ANCHOR.
  - 3B. USE ANY COMBINATION OF THE TWO LEVELING BLOCKS (P46P747 AND P46P748) TO LEVEL FRAMEWORK WITHIN .06 OF ADJOINING FRAMEWORKS.
  - 3C. FOUR SETS OF LEVELING BLOCKS ARE REQUIRED PER FRAMEWORK ASSEMBLED IN EACH OF THE FOUR CORNERS APPROX. AS SHOWN.
  - 3D. TIGHTEN NUT TO 85±10 INCH LB. TORQUE.
  - 3E. STUD AND NUT SHALL NOT TOUCH EQUIPMENT. STUDS MAY BE CUT TO PROVIDE CLEARANCE.
  - 3F. THE ANCHOR SHALL BE POSITIONED SO THAT IT IS FLUSH TO SLIGHTLY UNDER FLUSH TO THE CONCRETE SURFACE.



**FIG. 13B**  
 INTEGRATED GROUND ATTACHMENT  
 (GROUP B)  
 FLOOR ATTACHMENT FOR REGION C (MINOR EARTHQUAKE REGION)

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COMMON SYSTEM METHOD OF INSTALLING UNIFRAME FRAMEWORK		ED-97785-30 SHEET 3
WESTERN ELECTRIC COMPANY, INC.		PRINTED IN U.S.A.

3/8-16X2-3/4 LG THREADED STUD  
(SEE NOTE 4A)  
841064777 3/8-16 HEX NUT  
(SEE NOTE 4B)

FRAMEWORK BASE

FLUSH OR UNDERFLUSH  
WITH RESPECT TO  
FRAMEWORK BASE

FLOOR COVERING

841209729 3/8 INCH SELF  
DRILL ANCHOR (SEE NOTE 4D)

P4-1604 3/8 PLAIN WASHER  
841630153 INSULATING BUSHING  
841630155 HOLD DOWN WASHER  
841628663 HOLD DOWN PLATE  
841628613 .250 SPACER

841628589 SHEET INSULATOR  
841628597 .063 SPACER  
841628605 .125 SPACER  
841628613 .250 SPACER  
USED AS REQ'D. TO LEVEL FRAMEWORK  
WITHIN JOB OF ADJOINING FRAMEWORKS.

SAME ARRANGEMENT  
AS SHOWN AT LEFT

.280 MIN.  
.900 MAX.

**FIG. 14 A**

ISOLATED (FLOATING) GROUND ATTACHMENT  
(GROUP 2, 3 OR 4)  
FLOOR ATTACHMENT FOR REGION B (MODERATE EARTHQUAKE REGION)

NOTES:

- 4A. STUDS SHALL BE INSTALLED TO THE FULL DEPTH OF THREAD IN THE ANCHOR.
- 4B. TIGHTEN NUT TO A MINIMUM OF 25 FT. LB. TORQUE
- 4C. STUD AND NUT SHALL NOT TOUCH EQUIPMENT STUDS MAY BE CUT TO PROVIDE CLEARANCE.
- 4D. THE ANCHOR SHALL BE POSITIONED SO THAT IT IS FLUSH TO SLIGHTLY UNDER FLUSH TO THE CONCRETE SURFACE

FRAMEWORK BASE

FLUSH OR UNDERFLUSH  
WITH RESPECT TO  
FRAMEWORK BASE

FLOOR COVERING

841209729 3/8 INCH SELF  
DRILL ANCHOR (SEE NOTE 4D)

3/8-16X2-3/4 LG. THREADED STUD (SEE NOTE 4A)  
841064777 3/8-16 HEX NUT (SEE NOTE 4B)  
8448604 3/8 PLAIN WASHER  
841630155 HOLD DOWN WASHER  
841628663 HOLD DOWN PLATE

841628613 .250 SPACER  
311-28597 .063 SPACER  
311-28605 .125 SPACER  
311-28613 .250 SPACER  
USE AS REQ'D. TO LEVEL FRAMEWORK  
WITHIN JOB OF ADJOINING FRAMEWORKS.

SAME ARRANGEMENT  
AS SHOWN AT LEFT

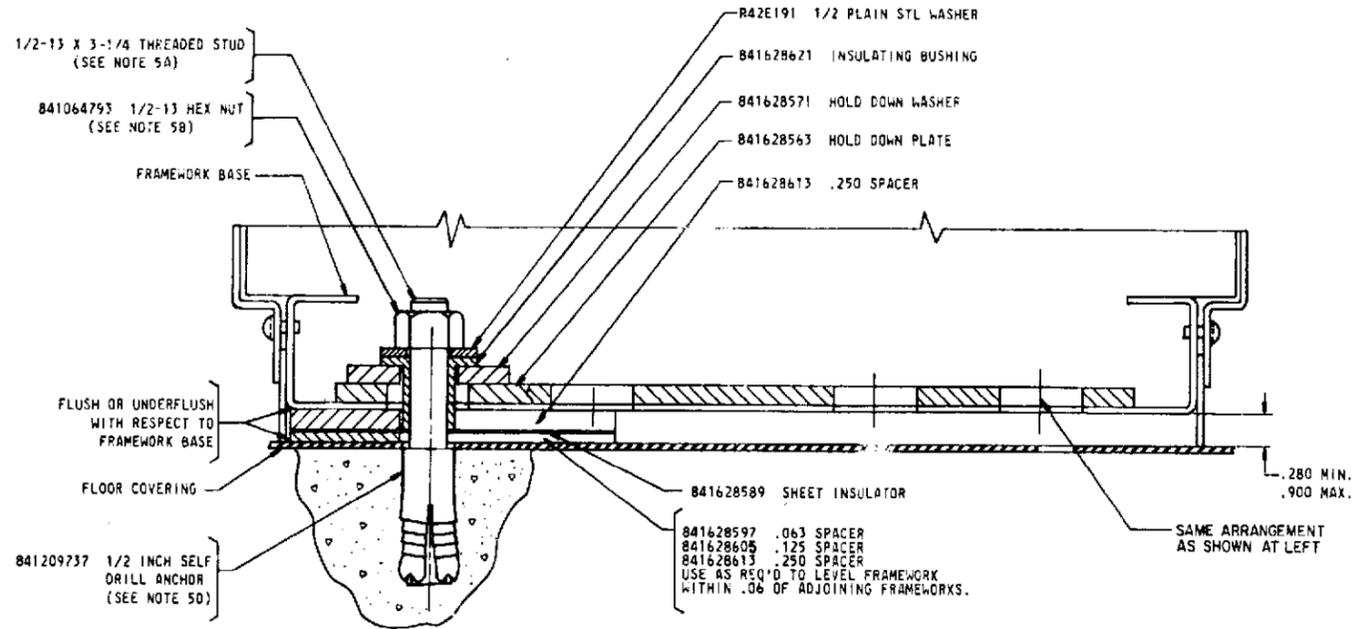
.250 MIN.  
.900 MAX.

**FIG. 14 B**

INTEGRATED GROUND ATTACHMENT  
(GROUP 9, 10 OR 11)  
FLOOR ATTACHMENT FOR REGION B (MODERATE EARTHQUAKE REGION)

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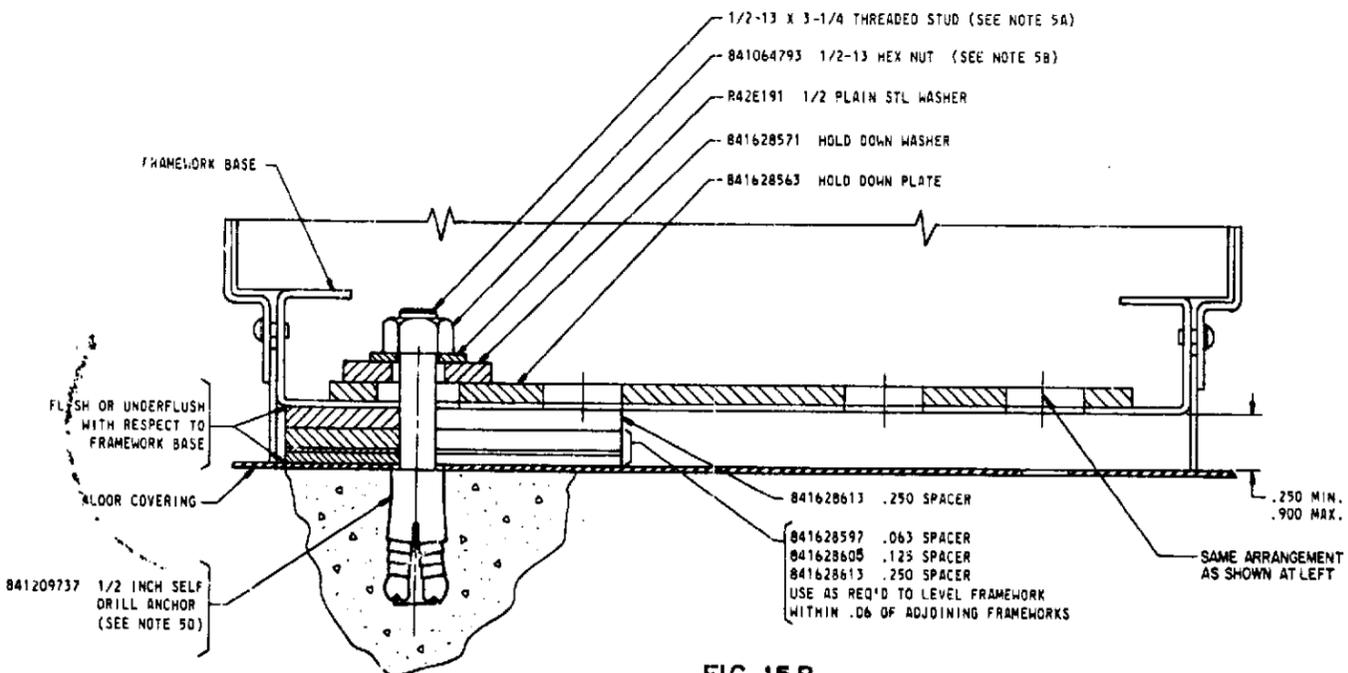
COMMON SYSTEM METHOD OF INSTALLING UNIFRAME FRAMEWORK	ED-97785-30 SHEET 4
WESTERN ELECTRIC	MAY 1965



**FIG. 15A**  
ISOLATED (FLOATING) GROUND ATTACHMENT  
(GROUP 5, 6 OR 7)  
FLOOR ATTACHMENTS FOR REGION A (MAJOR EARTHQUAKE REGION)

NOTES:

- 5A. STUDS SHALL BE INSTALLED TO THE FULL DEPTH OF THE THREAD IN THE ANCHOR.
- 5B. TIGHTEN NUT TO A MINIMUM OF 50 FT. LB. TORQUE.
- 5C. STUD AND NUT SHALL NOT TOUCH EQUIPMENT. STUDS MAY BE CUT TO PROVIDE CLEARANCE.
- 5D. THE ANCHOR SHALL BE POSITIONED SO THAT IT IS FLUSH TO SLIGHTLY UNDER FLUSH TO THE CONCRETE SURFACE.



**FIG. 15B**  
INTEGRATED GROUND ATTACHMENT  
(GROUPS 12, 13 OR 14)  
FLOOR ATTACHMENT FOR REGION A (MAJOR EARTHQUAKE REGION)

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COMMON SYSTEM METHOD OF INSTALLING UNIFRAME FRAMEWORK		ED-97785-30 SHEET 5
WESTERN ELECTRIC	DRAWN BY 65	1