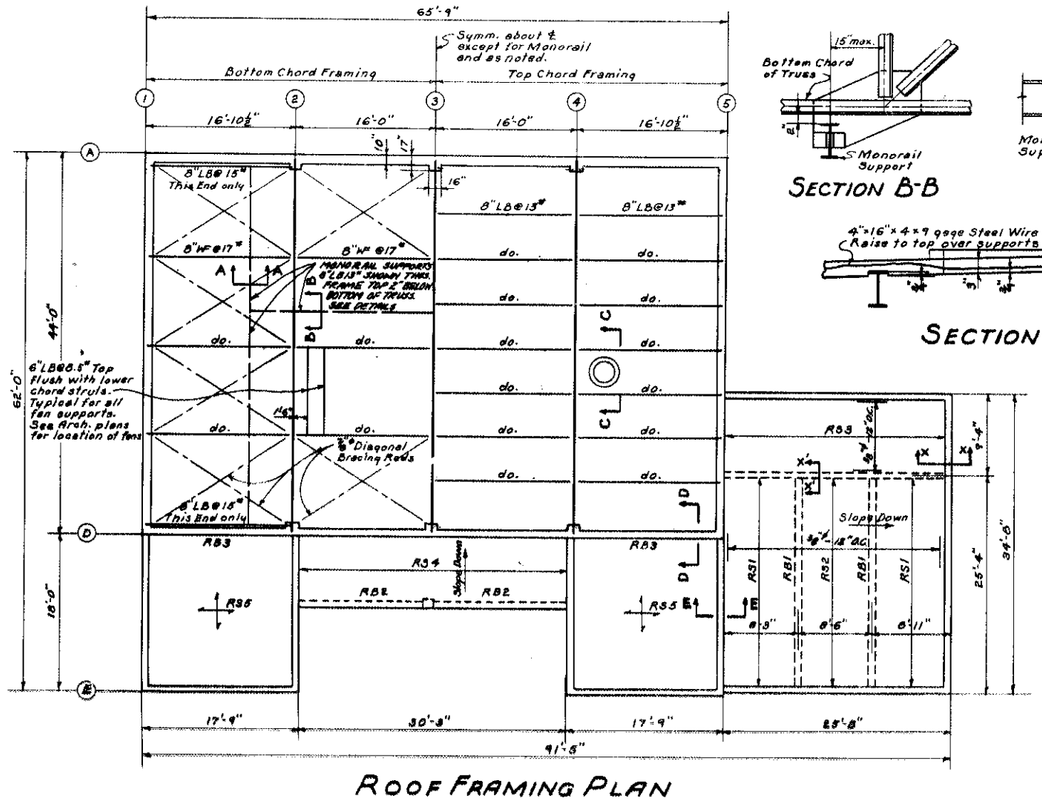
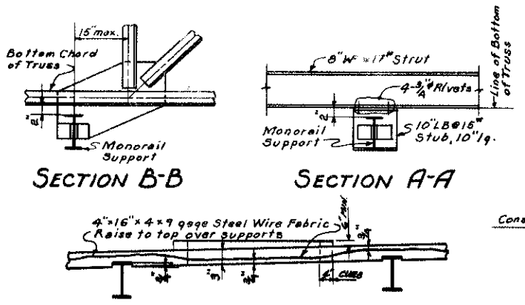


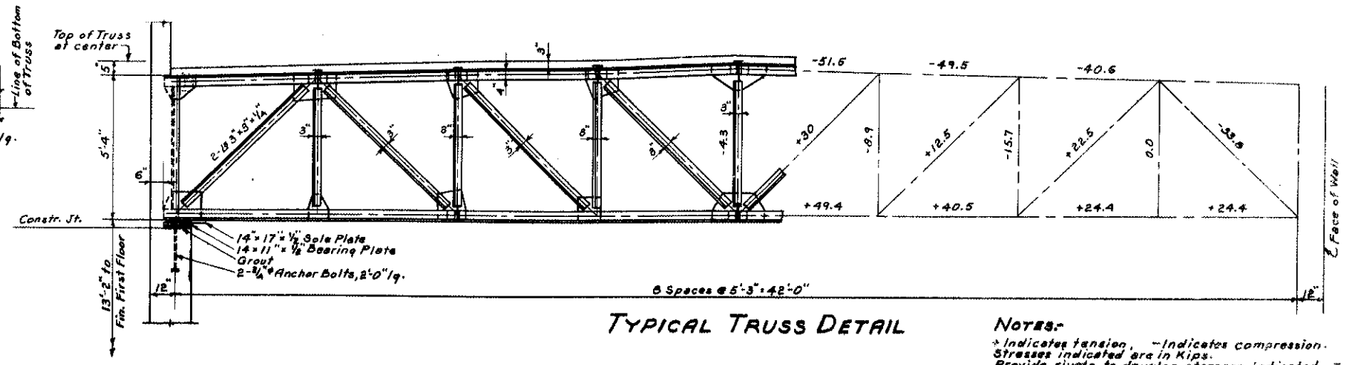
ROOF FRAMING PLAN



SECTION B-B

SECTION A-A

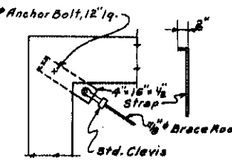
SECTION C-C



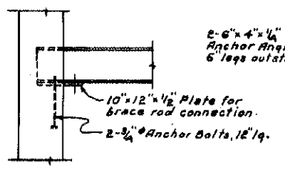
TYPICAL TRUSS DETAIL

Notes:

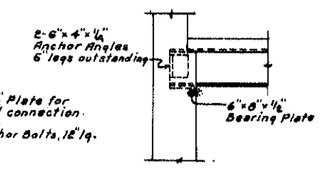
+ Indicates tension, − Indicates compression.
Stresses indicated are in Kips.
Provide rivets to develop stresses indicated. Two rivets minimum at each end.
All rivets and bolts shall be ¾" dia. Ribbed bolts may be used for field connections.
Provide stitch rivets 2'-0" o.c. maximum in compression members, and 3'-0" o.c. maximum in tension members.
Top chord members shall be 2 L's 8"×3"×¾". Bottom chord members shall be 2 L's 8"×3"×⅝". Web members not otherwise noted shall be 2 L's 3"×2"×¼".
All gusset plates shall be ⅜" thick.
Sole bearing and brace rod plates shall be ½" thick.
All diagonal bracing rods shall be ¾" dia.
All diagonal bracing rods shall have clevises at each end and turnbuckle at wall end.



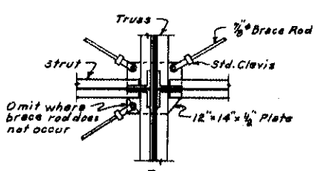
DETAIL OF BRACE ROD CONNECTION AT CORNER
East Corners only



DETAIL OF STRUT BEARING AT END WALL

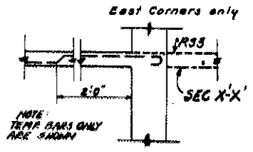


DETAIL OF PURLIN BEARING AT END WALL

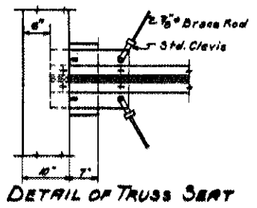


PLAN

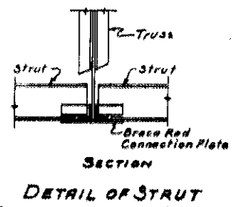
DETAIL OF STRUT CONNECTION TO TRUSS



SEC. X-X & X'-X'

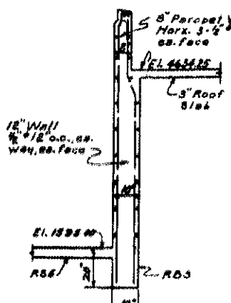


DETAIL OF TRUSS SEAT

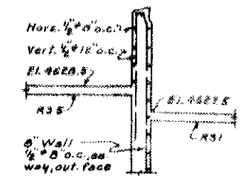


SECTION

DETAIL OF STRUT CONNECTION TO TRUSS



SECTION D-D



SECTION E-E

BEAM SCHEDULE

Beam Mark	b	h	Straight Bars No.	Straight Bars Size	Bent Bars No.	Bent Bars Size	Stirrups No.	Stirrups Size	Stirrups Spacing each end	Extra Bars over Supp. at Top of Beam No.-Size	Extra Bars over Supp. at Top of Beam Type	Extra Bars over Supp. at Top of Beam Lgth	Extra Bars over Supp. at Top of Beam Supp	Remarks
B1	12"	20"	2	¾"ø	2	⅞"ø	22	⅝"ø	2", 5@5", 5@8"	2-¾"ø	B	4'-6"	Wall	
B2	12"	22"	2	¾"ø	2	¾"ø	26	⅝"ø	2", 4@4", 4@6", 4@8"	2-¾"ø	B	4'-6"	Wall	
B3	12"	20"	2	¾"ø	2	¾"ø	18	⅝"ø	2", 4@6", 4@8"					
B4	14"	22½" 27½"	2	1"ø	2	1⅛"ø	25	⅝"ø	8", 13@4", Wall End 2", 5@10", 5@18" Col. End	4-1"ø	B	4'-0"	Wall	●
B5	11"	20"	2	⅞"ø	2	⅞"ø	14	⅝"ø	2", 3@4", 10@6", 3@8"	2-⅞"ø 2-¾"ø	B STR.	4'-0" 8'-0"	4D 3D	BOTTOM OF BEAM 12" BELOW TOP OF ROUGH SLAB.
B6	10"	26"	2	⅝"ø	2	⅝"ø	8	⅝"ø	2", 3@12"	2-⅝"ø	B	4'-0"	B5	
B7	10"	28"	2	⅝"ø	2	¾"ø	8	⅜"ø	2", 3@12"					
B8	10"	28" 30½"	2	⅝"ø	2	¾"ø	8	⅜"ø	2", 3@12"	2-½"ø	B	4'-0"	Wall	
B9	10"	18"	2	⅝"ø	2	¾"ø	18	⅜"ø	2", 3@5", 5@8"	2-⅝"ø	B	4'-3"	Wall	
B10	10"	18"	2	⅝"ø	2	¾"ø	16	⅜"ø	2", 2@6", 5@8"					
B11	10"	18"	2	¾"ø	2	⅞"ø	18	⅜"ø	2", 9@8", 5@8"	2-½"ø	B	4'-3"	Wall	
B12	10"	18"	2	⅝"ø	2	¾"ø	16	⅜"ø	2", 2@6", 5@8"					
B13	8	58"	2	⅝"ø			8	½"ø	2", 3@8"					ALL BARS STRAIGHT & CONTINUING WITH S.M. NOOK AT WALL END.
B14	8	58"	2	⅝"ø			8	½"ø	2", 3@8"					ALL BARS STRAIGHT & CONTINUING WITH B13. HOOK AT WALL END.
RB1	8"	16"	2	⅞"ø	1	1"ø	30	⅜"ø	2", 14@7"	1-⅞"ø	B	6'-5"	Walls	
RB2	8"	24"	1	⅝"ø	1	⅝"ø			⅜"ø 12" o.c.	1-½"ø	B	4'-0"	Wall	
RB3	10"	20"	2	½"ø	2	⅝"ø	14	⅜"ø	2", 6@8"	2-½"ø	B	4'-0"	Wall	

BEAM SCHEDULE — Bending Schedule

Beam Mark	a	b	c	Supp	Span	Supp	c	b	a
B1	—	4'-4"	4'-1"	—	16'-6"	Wall	3'-4"	—	3"
B2	—	4'-4"	4'-1"	—	16'-6"	Wall	3'-4"	—	3"
B3	—	4'-8"	4'-0"	—	16'-0"	Col. 4-B	4'-0"	4'-8"	—
B4	All Bars Straight			Wall	16'-6"	—	4'-1"	4'-4"	—
B5				3-D	16'-0"	4-D			
B6	3"	—	2'-10"	MALL	14'-3"	—	3'-6"	3'-4"	—
B7	—	4'-0"	3'-8"	—	14'-8"	B4	3'-8"	4'-0"	—
B8	—	3'-9"	3'-6"	—	14'-4"	Wall	2'-10"	—	3"
B9	—	3'-9"	3'-6"	—	14'-0"	Wall	2'-10"	—	6"
B10	—	3'-9"	3'-8"	Col. 2-C	14'-8"	—	3'-8"	3'-9"	—
B11	—	3'-9"	3'-6"	—	14'-0"	Wall	2'-10"	—	6"
B12	—	3'-9"	3'-6"	Col. 3-C	14'-8"	—	3'-8"	3'-9"	—
B13	—	—	—	WALL	15'-5"	B-3			
B14				D-3	15'-5"	WALL	—	—	
RB1	2"	—	4'-10"	—	25'-0"	Wall	4'-10"	—	2"
RB2	—	4'-3"	4'-0"	—	16'-0"	Wall	3'-9"	—	2"
RB3	—	2'-6"	4'-1"	—	16'-5"	Wall	3'-4"	—	3"

COLUMN SCHEDULE

Column	Footing	Supporting First Floor
2-B, 3-B, 4-B 2-C, 3C, 4C	2-Pile Footing Type P-2	16"×16" 4-1"ø

SLAB SCHEDULE

Slab Mark	2 Way Slab	Size Bottom	Size Top	Bar spacing c. to c. Supp. Band A	Bar spacing c. to c. Supp. Band B	Extra Bars over Supp. at Top of Slab No.-Size	Extra Bars over Supp. at Top of Slab Type	Extra Bars over Supp. at Top of Slab Lgth	Extra Bars over Supp. at Top of Slab Supp	Remarks
S1	6+1		⅛"ø	2.8@4"	10 10½", 7@5½"	17-⅜"ø	B	4'-6"	At Expansion Joint at Trench, Each Wall	X at ● Panel @ at Trench
		⅛"ø		2.8@4"	10 10½", 7@5½" 15 10½", 7@5½" 15 10½", 8@5½"	19-⅜"ø	B	4'-0"	Each Wall	
S2	5+1		⅛"ø	2.3@4"	10 12", 6@6½"					
		⅛"ø		1.5@6"	10 14", 4@8"	12-⅝"ø	B	4'-0"	Wall	
S3	5+1		⅛"ø	1.8@5"	10 13½", 4@7½"	16-⅜"ø	B	4'-0"	Wall	
		⅛"ø		2.3@4"	10 14", 6@6½"					
S4	5+1		⅛"ø	1.5@5"	10 16½", 4@8"	11-⅜"ø	B	4'-0"	Wall	
		⅛"ø		2.3@4"	10 14", 6@6½"	18-⅜"ø	B	4'-0"	Wall	
S5	5+1		⅛"ø	1.5@5"	10 16", 4@8"					
		⅛"ø		2.1@4½"	10 13½", 5@7"	16-⅜"ø	B	4'-0"	Wall	● Ext. wall end only
S6	5+1		½"ø	1.8@5"	10 13", 4@7½"					
		½"ø		2.1@4½"	10 13½", 5@7"					
S7	5+1		⅛"ø	1.5@5"	10 16", 4@8"					
		½"ø		2.1@4½"	10 13½", 5@7"	15-⅜"ø	B	4'-0"	Wall	● Ext. wall end only
S8	5+1		⅛"ø	1.8@5"	10 13", 4@7½"					
		½"ø		2.1@4½"	10 13½", 5@7"					
RS5	4		½"ø	1.5@7"	10 14", 4@9"	11-⅜"ø	B	4'-6"	Each Wall	
		½"ø		1.6@7"	10 12½", 4@10"	13-⅜"ø	B	4'-0"	Each Wall	● TO ALTERNATE WITH ST. BARS

1-WAY SLAB REINFORCING

Mark	Depth	Size	Spacing
S9	6½"±1"	⅛"ø Top ⅛"ø Bott.	12" Top 10" Bott.
S10	6½"±1"	⅜"ø Top ⅜"ø Bott.	12" Top 8" Bott.
S11	5"±1"	½"ø ⊗	5" o.c.
RS1	3"	⅜"ø	6" o.c.
RS2	3"	⅜"ø	6" o.c.
RS3	3"	⅜"ø	6" o.c.
RS4	3"	⅜"ø	6" o.c.

Mark	Extra Bars over Supp. at Top of Slab Type	Extra Bars over Supp. at Top of Slab Lgth	Extra Bars over Supp. at Top of Slab Supp	Remarks
S9	Project top bars 4'-3" into S7 and S8 Also see Sect. G-G			
S10	See Sect. G-G for length			
S11	⅜"ø 12" o.c. Temp. Bars			Alternate Bars Bent ⊗
RS1	⅜"ø 12" o.c. Sec. X-X'			Alternate Bars Bent
RS2	" " " " "			Alternate Bars Bent
RS3	" " " " X-X			" " "
RS4	" " " " "			" " "

BEAM SCHEDULE — Bending Schedule

Beam Mark	a	b	c	Supp	Span	Supp	c	b	a
S1	Alt. Panel @ Trench	2'-6"	3'-0" 3'-5½"	4'-6"	28'-5½" 28'-5½"	Wall	3'-7"	—	2"
S2	2"	—	3'-5"	Wall	17'-0"	Wall	3'-5"	—	2"
S3	—	4'-9"	4'-0"	—	16'-5½"	Wall	3'-5"	—	3"
S4	—	4'-9"	3'-8"	B2	13'-11"	—	3'-8"	3'-11"	—
S5	—	4'-3"	4'-0"	—	16'-6"	Wall	3'-5"	—	3"
S6	—	4'-0"	3'-8"	B1	14'-8"	—	3'-8"	4'-0"	—
S7	—	4'-9"	4'-0"	—	16'-6"	Wall	3'-5"	—	3"
S8	—	3'-11"	3'-6"	—	14'-5½"	Wall	2'-10"	—	6"
S9	—	4'-8"	4'-0"	B11	16'-0"	—	4'-0"	4'-5"	—
S10	—	3'-11"	3'-6"	—	14'-5"	Wall	2'-10"	2'-3" PLATA	3"
S11	—	4'-8"	4'-0"	B12	16'-0"	—	4'-0"	4'-8"	—
RS1	—	3'-9"	3'-6"	—	14'-8"	B3	3'-6"	3'-9"	—
RS2	—	4'-0"	4'-0"	—	16'-0"	B9	4'-0"	2'-6"	—
RS3	—	3'-11"	3'-6"	—	14'-3"	Wall	2'-10"	2'-3" PLATA	3"
RS4	—	4'-5"	4'-0"	—	16'-0"	B10	4'-0"	2'-6"	—
	—	3'-9"	3'-6"	—	14'-8"	B3	3'-6"	3'-9"	—
	2"	—	3'-7"	—	18'-1"	Wall	3'-7"	—	2"
	2"	—	3'-5"	Wall	17'-1"	Wall	3'-5"	—	2"

NOTE
STRAIGHT & BENT BARS IN ADJACENT PANELS SHALL ALTERNATE.

VETERANS ADMINISTRATION

APPROVED Omar N. Bradley
ADMINISTRATOR

ASSISTANT ADMINISTRATOR

John J. Kingsbury
DIRECTOR OF CONSTRUCTION

L. D. Galbraith
CHIEF, TECHNICAL DIVISION

Roof Framing Plan, Details and Schedule.

LAUNDRY BUILDING NO. 13
VETERANS ADMINISTRATION
GRAND JUNCTION, COLO.

	REVISIONS	NUMBER
Drawn G.R.H.		13-5
Traced G.R.H.		
Sect. Chf.		SHEET 5 OF 6
Date JULY 1, 1946		
Subdivision Chief John W. Rees		Proj. No. 2451