

NOTE:
SEE SHEET 58 FOR CONTINUATION OF 2ND FLOOR FRAMING PLAN.

ANCHOR TEES INDICATED AS SHOWN IN SECTION 25
EACH STEM & EACH END

14-32" DEEP DOUBLE TEE UNITS

6-32" DEEP DOUBLE TEE UNITS

25-32" DEEP DOUBLE TEE UNITS

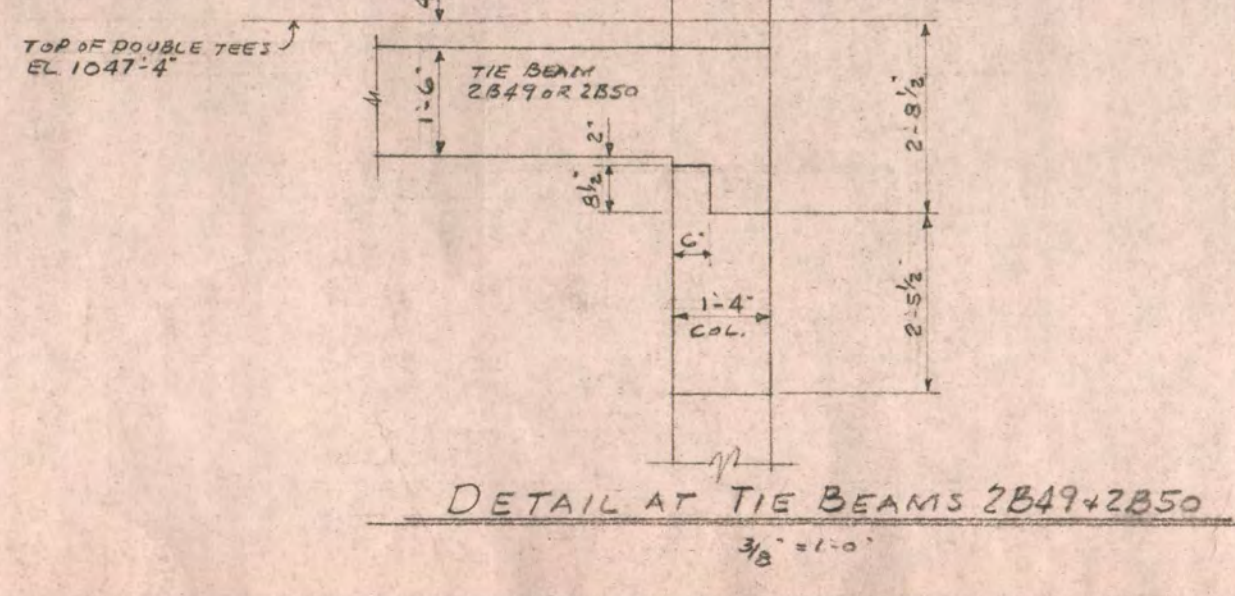
25-32" DEEP DOUBLE TEE UNITS

ANCHOR TEES INDICATED AS SHOWN IN SECTION 25
EACH STEM & EACH END

1" CLEARANCE SIDES FOR 32" TEE UNITS

1" CLEARANCE SIDES FOR 24" TEE UNITS

22-24" DEEP DOUBLE TEE UNITS

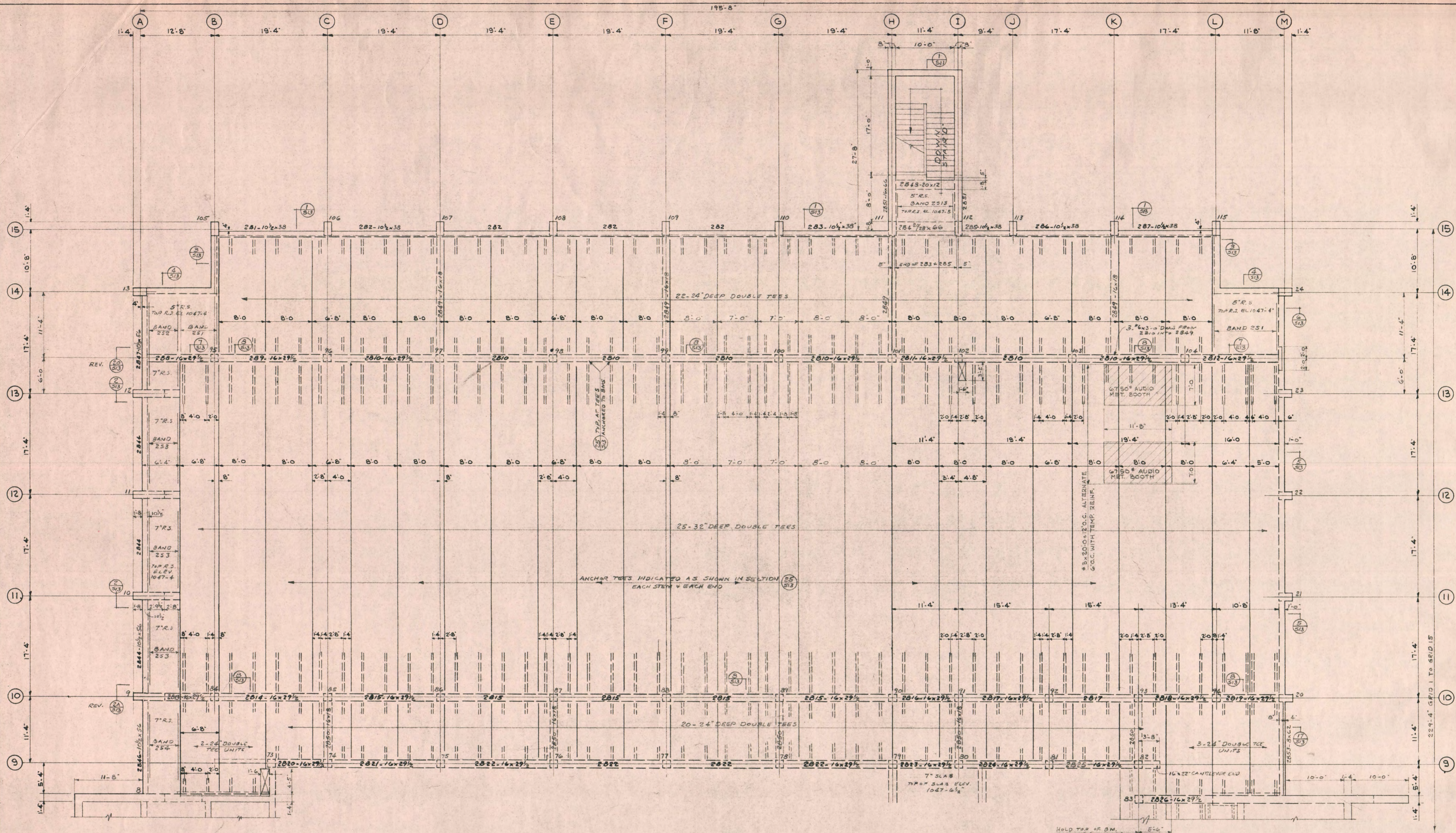


4" CONCRETE TOPPING ON TEES.
FIN. FLOOR ELEV. 1047'-4"
PROVIDE #3 @ 12" O.C. W/ TEMP. REIN. IN TOPPING.
ALL SECOND FLOOR DOUBLE TEES TO BE DESIGNED
FOR THE FOLLOWING SUPERIMPOSED LOADS
100#/SQ. FT. L.L. AT CORRIDORS
60#/SQ. FT. L.L. ALL OTHER AREAS
15#/SQ. FT. D.L. PARTITIONS
50#/SQ. FT. D.L. 4" TOPPING PLUS EQUIPMENT
LOADS INDICATED ON PLANS.
PROVIDE FLANGE SHEAR CONNECTIONS 6'-0" O.C.
AT ALL TEES - 2ND FLOOR

NOTE:
ALL OPENINGS CREATED BY CLEARANCE REQD. FOR THE
SECTION OF DOUBLE TEE FLOR UNITS TO BE FORMED
BY GENERAL CONTRACTOR AND POURED WITH 4" TOPPING.

TOP OF FLOOR TEES ELEV. 1047'-4"
2ND FLOOR FRAMING PLAN UNIT A SCALE 1/8" = 1'-0"

EDUCATION BUILDING ST. CLOUD STATE COLLEGE		SHEET NO.
TRAYNOR, HERMANSON & HAHN ARCHITECTS INC.		54
ST. CLOUD, MINNESOTA		OF 13
STRUCTURAL ENGINEERS	JOHNSTON & SAHLMAN, INC. MPLS., MINN.	
CONSULTING ENGINEERS	GAUSMAN & MOORE, INC. ST. PAUL, MINN.	
DRAWN J.D. J.W.S. CHECKED J.W.S. DATE NOV. 10, 1949		
STATE OF MINNESOTA		APPROVED BY _____
DEPARTMENT OF ADMINISTRATION		APPROVED BY _____
ARCHITECTURAL AND ENGINEERING DIVISION		APPROVED BY _____
ROOM 6-10 ADMINISTRATION BUILDING		APPROVED BY _____
ST. PAUL 55101		COMMISSIONER OF ADMINISTRATION
STATE PROJECT NO. 6360150		AN AUTHORIZED SIGNATURE

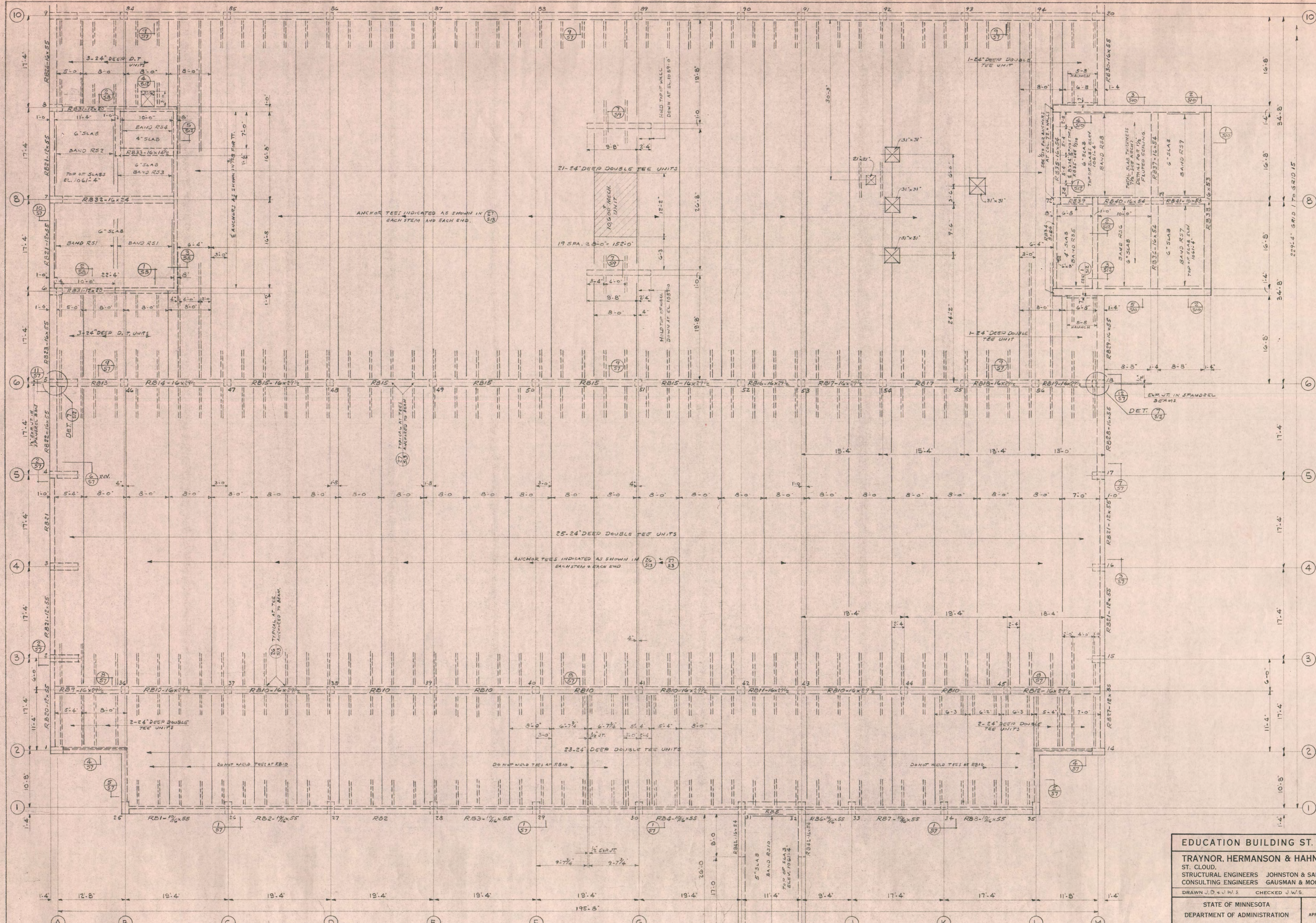


4" CONCRETE TOPPING ON TEES.
 FIN. FLOOR ELEV. 1047'-8"
 PROVIDE #3@12" EA. WAY TEMP. REINF. IN TOPPING.

TOP OF FLOOR TEES ELEV. 1047'-4"
 2ND FLOOR FRAMING PLAN UNIT B SCALE 1/8" = 1'-0"



EDUCATION BUILDING ST. CLOUD STATE COLLEGE		SHEET NO. 35 OF 13
TRAYNOR, HERMANSON & HAHN ARCHITECTS INC. ST. CLOUD, MINNESOTA STRUCTURAL ENGINEERS JOHNSTON & SAHLMAN, INC. MPLS., MINN. CONSULTING ENGINEERS GAUSMAN & MOORE, INC. ST. PAUL, MINN.		DATE Nov. 10, 1969
DRAWN J.D. CHECKED J.W.S.	STATE OF MINNESOTA DEPARTMENT OF ADMINISTRATION ARCHITECTURAL AND ENGINEERING DIVISION ROOM 6-10 ADMINISTRATION BUILDING ST. PAUL 55101	APPROVED BY _____ APPROVED BY _____ APPROVED BY _____ COMMISSIONER OF ADMINISTRATION AN AUTHORIZED SIGNATURE
STATE PROJECT NO. 6360150		



ALL ROOF TEES TO BE DESIGNED FOR
 40#/SQ. FT. L.L.
 10#/SQ. FT. D.L.
 50#/SQ. FT. SUPERIMPOSED LOAD PLUS
 OTHER LOADS INDICATED ON PLAN.

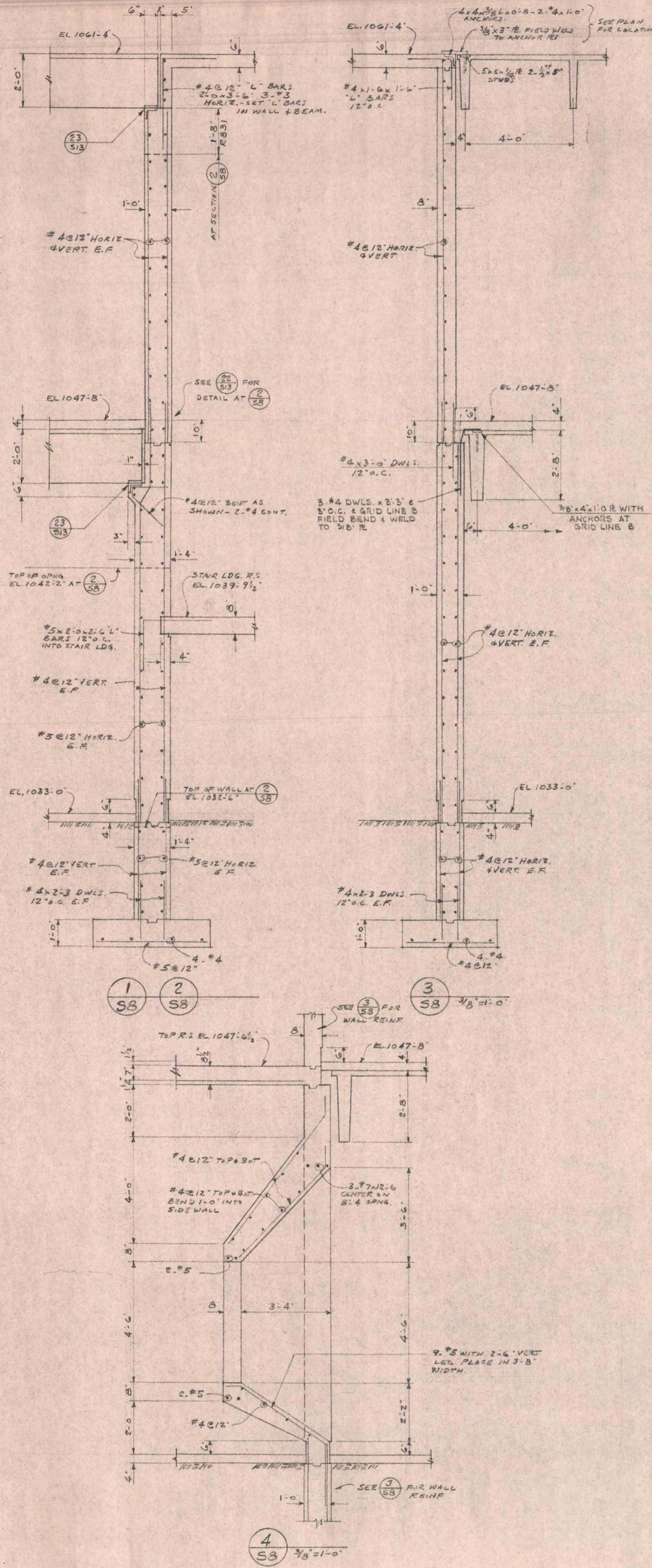
PROVIDE FLANGE SHEAR CONNECTIONS 8'-0" O.C.
 AT ALL ROOF TEES.

TOP OF ROOF TEES ELEV. 1061'-4"

ROOF FRAMING PLAN UNIT A

SCALE 1/8" = 1'-0"

EDUCATION BUILDING ST. CLOUD STATE COLLEGE		SHEET NO. 56 OF 13
TRAYNOR, HERMANSON & HAHN ARCHITECTS INC. ST. CLOUD, MINNESOTA STRUCTURAL ENGINEERS JOHNSTON & SAHLMAN, INC. MPLS., MINN. CONSULTING ENGINEERS GAUSMAN & MOORE, INC. ST. PAUL, MINN.		
DRAWN J.D. & J.W.S. CHECKED J.W.S. DATE MAY 10, 1969	APPROVED BY _____ APPROVED BY _____ APPROVED BY _____	STATE OF MINNESOTA DEPARTMENT OF ADMINISTRATION ARCHITECTURAL AND ENGINEERING DIVISION ROOM 6-10 ADMINISTRATION BUILDING ST. PAUL, MINN. 55101 STATE PROJECT NO. 6360150 COMMISSIONER OF ADMINISTRATION AN AUTHORIZED SIGNATURE



SLAB BAND REINFORCING SCHEDULE

BAND	REINFORCING
BAND 251	#5 @ 12" O.C. TOP
BAND 252	#5 @ 12" O.C. TOP
BAND 253	#5 @ 12" O.C. TOP
BAND 254	#5 @ 12" O.C. TOP
BAND 255	#5 @ 12" O.C. TOP
BAND 256	#5 @ 12" O.C. TOP
BAND 257	#5 @ 12" O.C. TOP
BAND 258	#5 @ 12" O.C. TOP
BAND 259	#5 @ 12" O.C. TOP
BAND 2510	#5 @ 12" O.C. TOP
BAND 2511	#5 @ 12" O.C. TOP
BAND 2512	#5 @ 12" O.C. TOP
BAND 2513	#5 @ 12" O.C. TOP
BAND 2514	#5 @ 12" O.C. TOP
BAND 2515	#5 @ 12" O.C. TOP
BAND 2516	#5 @ 12" O.C. TOP
BAND 2517	#5 @ 12" O.C. TOP
BAND 2518	#5 @ 12" O.C. TOP
BAND 2519	#5 @ 12" O.C. TOP
BAND 2520	#5 @ 12" O.C. TOP
BAND 2521	#5 @ 12" O.C. TOP
BAND 2522	#5 @ 12" O.C. TOP
BAND 2523	#5 @ 12" O.C. TOP
BAND 2524	#5 @ 12" O.C. TOP
BAND 2525	#5 @ 12" O.C. TOP
BAND 2526	#5 @ 12" O.C. TOP
BAND 2527	#5 @ 12" O.C. TOP
BAND 2528	#5 @ 12" O.C. TOP
BAND 2529	#5 @ 12" O.C. TOP
BAND 2530	#5 @ 12" O.C. TOP

SECOND FLOOR CONCRETE BEAM SCHEDULE

MARK	SIZE	REINFORCING	POS. OF REINF.	STIRRUPS OR TIES	REMARKS
2B1	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	PROVIDE 2 #4 HORIZ. E.F. EXTRA - 12" SECTION
2B2	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B3	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B4	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B5	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B6	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B7	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B8	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B9	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B10	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B11	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B12	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B13	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B14	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B15	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B16	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B17	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B18	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B19	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B20	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B21	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B22	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B23	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B24	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B25	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B26	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B27	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B28	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B29	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B30	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B31	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B32	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B33	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B34	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B35	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B36	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B37	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B38	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B39	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B40	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B41	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B42	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B43	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B44	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B45	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B46	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B47	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B48	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B49	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B50	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B51	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B52	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
2B53	10 1/2 38	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do

ROOF CONCRETE BEAM SCHEDULE

MARK	SIZE	REINFORCING	POS. OF REINF.	STIRRUPS OR TIES	REMARKS
RB1	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	PLACE TOP BARS IN 2 LAYERS AT COLL. SEE SECTION 35B FOR BARS IN SLAB
RB2	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB3	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB4	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB5	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB6	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB7	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB8	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB9	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB10	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB11	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB12	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB13	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB14	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB15	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB16	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB17	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB18	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB19	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB20	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB21	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB22	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB23	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB24	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB25	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB26	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB27	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB28	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB29	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB30	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB31	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB32	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB33	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB34	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB35	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB36	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB37	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB38	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB39	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB40	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB41	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do
RB42	10 1/2 55	#7 19'-4"	TOP	14 #3 @ 8" O.C.	do

EDUCATION BUILDING ST. CLOUD STATE COLLEGE

TRAYNOR, HERMANSON & HAHN ARCHITECTS INC.
ST. CLOUD, MINNESOTA

JOHNSTON & SAHLMAN, INC. MPLS., MINN.
CONSULTING ENGINEERS GAUSMAN & MOORE, INC. ST. PAUL, MINN.

DRAWN J.W.S. CHECKED J.W.S. DATE NOV. 10, 1969

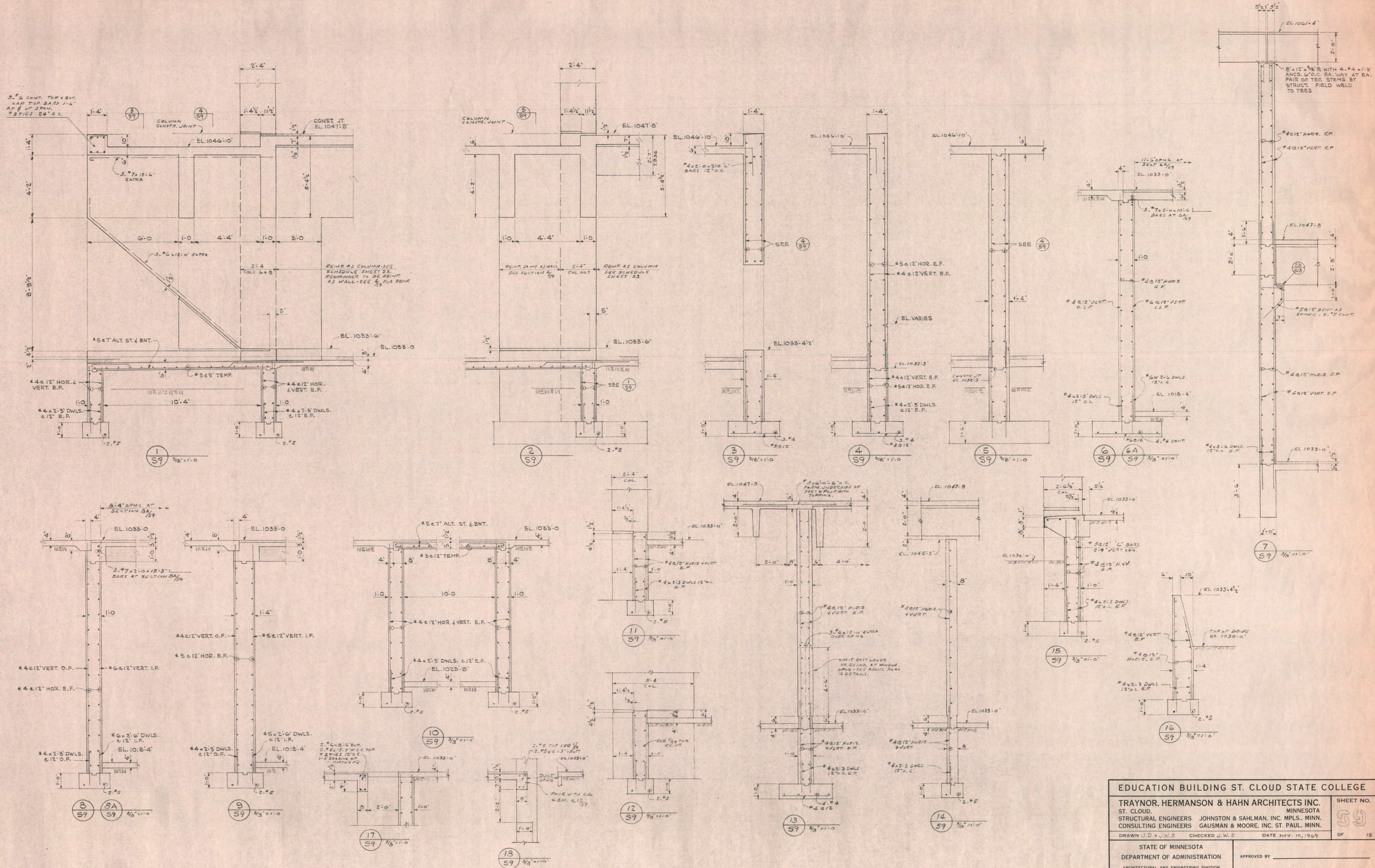
STATE OF MINNESOTA
DEPARTMENT OF ADMINISTRATION
ARCHITECTURAL AND ENGINEERING DIVISION
ROOM G-10 ADMINISTRATION BUILDING
ST. PAUL 55101

APPROVED BY _____
APPROVED BY _____
APPROVED BY _____

STATE PROJECT NO. 6360150

COMMISSIONER OF ADMINISTRATION
AN AUTHORIZED SIGNATURE

SHEET NO. 58 OF 13



EDUCATION BUILDING ST. CLOUD STATE COLLEGE			SHEET NO.
TRAYNOR, HERMANSON & HAHN ARCHITECTS INC. ST. CLOUD, MINNESOTA STRUCTURAL ENGINEERS JOHNSTON & SAHLMAN, INC. MPLS. MINN. CONSULTING ENGINEERS GAUSMAN & MOORE, INC. ST. PAUL, MINN.			59
DRAWN J.D. & J.W.S.		CHECKED J.W.S.	DATE Nov. 10, 1969
STATE OF MINNESOTA DEPARTMENT OF ADMINISTRATION ARCHITECTURAL AND ENGINEERING DIVISION ROOM 610 ADMINISTRATION BUILDING ST. PAUL 55101		APPROVED BY _____ APPROVED BY _____ APPROVED BY _____	OF 18
STATE PROJECT NO. 6360150		COMMISSIONER OF ADMINISTRATION AN AUTHORIZED SIGNATURE	