

RENOVATIONS TO OLD SCIENCE BUILDING

RIFLE RANGE ADDITION TO ARMORY BUILDING

ARKANSAS STATE UNIVERSITY
JONESBORO ARKANSAS

STUCK FRIER LANE & SCOTT INC ARCHITECTS

WOOTEN SMITH & WEISS
STRUCTURAL ENGINEER
MEMPHIS TENNESSEE

WILLIAM B. THOMPSON
CONSULTING ENGINEER
MEMPHIS TENNESSEE

INDEX OF DRAWINGS

ARCHITECTURAL

A-1 SITE PLAN
A-2 FINISH SCHEDULE
A-3 FIRST FLOOR PLAN
A-4 SECOND FLOOR PLAN
A-5 THIRD FLOOR PLAN
A-6 FOURTH FLOOR PLAN
A-7 EXTERIOR ELEVATIONS
A-8 EXTERIOR ELEVATIONS & SECTION
A-9 STAIR DETAILS
A-10 ROOF PLAN
A-11 REFLECTED CEILING PLANS
A-12 REFLECTED CEILING PLANS
A-13 FOUNDATION PLAN & DETAILS
A-14 SITE PLAN-RIFLE RANGE
A-15 PLANS-RIFLE RANGE
A-16 DETAIL RIFLE RANGE

MECHANICAL

MP-1 PLOT & ROOF PLAN
MP-2 MECHANICAL PLAN-RIFLE RANGE

M-1 FIRST FLOOR PLAN
M-2 SECOND FLOOR PLAN
M-3 THIRD FLOOR PLAN
M-4 FOURTH FLOOR PLAN
M-5 MECHANICAL EQUIPMENT PLAN & SCHEDULES

PLUMBING

P-1 FIRST FLOOR PLAN & SCHEDULE
P-2 SECOND FLOOR PLAN & RISERS
P-3 THIRD FLOOR PLAN
P-4 FOURTH FLOOR PLAN

ELECTRICAL

E-1 FIRST FLOOR PLAN
E-2 SECOND FLOOR PLAN
E-3 THIRD FLOOR PLAN
E-4 FOURTH FLOOR PLAN
E-5 RIFLE RANGE FLOOR PLAN
E-6 SCHEDULES

PROJECT NUMBER

HEW-7-00380-0

COMMISSION NUMBER

51168

OFFICE SET

ROOM FINISH

SCHEDULE

AREA	ROOM NUMBER	FLOOR	BASE	WAINSCOT	WALLS	CEILING	REMARKS	CLG. HT.
	EXIST. TERR. TO REMAIN	EXIST. CONC. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN
FIRST FLOOR	101							9' 7"
	102							11' 0"
	103-104						PLASTER NEW WALL AT STAIR ONLY PATCH EXIST. CEILING	11' 0"
	105							11' 9"
	106							10' 0"
	107							11' 9"
	108							11' 9"
	109							11' 9"
	110						REMOVE WOOD BASE - PLASTER SOUTH WALL	11' 9"
	111						PLASTER NEW CLAY TILE WALL - REMOVE W.D. BASE	11' 9"
	112-113						REMOVE W.D. BASE	8' 0"
	114						NEW PLASTER ON EXIST. CLAY TILE WALL - REMOVE W.D. BASE	8' 0"
	115						NEW PLASTER ON SOUTH WALL, REMOVE WOOD BASE	8' 0"
	116-117						NEW PLASTER ON NORTH WALL	8' 0"
118						NEW PLASTER ON SOUTH WALL	8' 0"	
119						NEW PLASTER ON SOUTH WALL	8' 0"	
120-121						NEW PLASTER ON SOUTH WALL OF OFFICE 120 & NORTH WALL OF OFFICE 121	8' 0"	
122-123						NEW PLASTER ON SOUTH WALLS	9' 7"	
124						NEW PLASTER ON SOUTH & EAST WALLS	11' 9"	
125							9' 7"	
126							8' 0"	
127						NEW PLASTER ON SOUTH WALL - REMOVE CONC. BASE	9' 0"	
128								
129						NEW PLASTER & VINYL BASE ON NORTH WALL		
130						NEW PLASTER ON SOUTH WALL	8' 0"	
131							9' 7"	
132						NEW PLASTER ON SOUTH WALL	8' 0"	
133							8' 0"	
134						NEW PLASTER ON NORTH WALL	8' 0"	
135						REMOVE ACOUS. PANELS ON WALLS & CEILING VINYL STRAIGHT BASE CUT FROM SHEETS		
136-137								
138							9' 7"	
139						PLASTER ON EXISTING WALLS	8' 0"	
140						SAME	8' 0"	
141						SAME	8' 0"	
SECOND FLOOR	201							9' 7"
	202-203						NEW PLASTER ON SOUTH WALL / REMOVE WOOD BASE	10' 8"
	204						REMOVE WOOD BASE	8' 0"
	205						NEW PLASTER ON SOUTH WALL (REMOVE WOOD BASE)	10' 8"
	206						NEW PLASTER ON NORTH WALL (REMOVE WOOD BASE)	10' 8"
	207						NEW PLASTER ON NORTH WALL (REMOVE WOOD BASE)	10' 8"
	208						NEW PLASTER ON SOUTH WALL (REMOVE WOOD BASE)	10' 8"
	209						NEW PLASTER ON SOUTH WALL (REMOVE WOOD BASE)	10' 8"
	210						NEW PLASTER ON SOUTH WALL (REMOVE WOOD BASE)	10' 8"
	211						NEW PLASTER ON SOUTH WALL / REMOVE WOOD BASE	10' 8"
	212						NEW PLASTER ON NORTH & WEST WALLS (RM. W.D. BASE)	8' 0"
	213						NEW PLASTER ON WEST WALL (REMOVE WOOD BASE)	8' 0"
	214						NEW PLASTER ON SOUTH & WEST WALLS (RM. W.D. BASE)	10' 8"
	215						NEW PLASTER ON SOUTH WALL (REMOVE WOOD BASE)	10' 8"
	216							8' 0"
	217						NEW PLASTER ON NORTH WALL (REMOVE WOOD BASE)	8' 0"
	218						NEW PLASTER ON SOUTH WALL	10' 8"
	219						NEW PLASTER ON NORTH WALL (REMOVE WOOD BASE)	8' 0"
	220							8' 0"
	221						NEW PLASTER ON SOUTH WALL (REMOVE WOOD BASE)	8' 0"
	222-223							9' 7"
224						NEW PLASTER ON SOUTH WALL OF OFFICE 222 & NORTH WALL OF OFFICE 223 (REMOVE WOOD BASE)	8' 0"	
225						NEW PLASTER ON SOUTH, EAST & NORTH WALLS (RM. W.D. BASE)	10' 8"	
226						NEW PLASTER ON WEST WALL	9' 7"	
227							9' 7"	
228						NEW PLASTER ON SOUTH WALL - REMOVE CONC. BASE	9' 0"	
229								
230						NEW PLASTER ON EAST WALL		
231						NEW PLASTER ON SOUTH, NORTH, WEST WALLS (REMOVE WOOD BASE)	10' 8"	
232						REMOVE WOOD BASE	9' 7"	
233-234						NEW PLASTER ON SOUTH & EAST WALLS (RM. WOOD BASE)	10' 8"	
235						SEE NOTE AREA 136		
236								
237							8' 0"	
							10' 8"	
FOURTH FLOOR	301							9' 7"
	302						NEW PLASTER ON SOUTH & EAST WALLS	10' 8"
	303						NEW PLASTER ON SOUTH & EAST WALLS	10' 8"
	304							9' 7"
	305							8' 0"
	306-308						PLASTER REMOVED RM 306	8' 0"
	309							10' 8"
	310						NEW PLASTER ON SOUTH WALL	8' 0"
	311						PLASTER REMOVED RM 311	8' 0"
	312						NEW PLASTER ON NORTH WALL (EXIST. COLUMN)	10' 8"
	313							8' 0"
	314-316							8' 0"
	317						NEW PLASTER ON SOUTH WALL	8' 0"
	318							10' 8"
	319							10' 8"
	320						NEW PLASTER ON SOUTH WALL	10' 8"
	321						NEW PLASTER ON SOUTH WALL	10' 8"
	322-323						NEW PLASTER ON SOUTH WALL	10' 8"
	324						NEW PLASTER ON W. WALL OF 323 & N. WALL OF 322	8' 0"
	325						NEW PLASTER ON SOUTH & WEST WALLS	10' 8"
	326						NEW PLASTER ON SOUTH WALL	10' 8"
	327							8' 0"
	328						NEW PLASTER ON NORTH WALL	8' 0"
	329						NEW PLASTER ON NORTH WALL	8' 0"
	330							8' 0"
	331						NEW PLASTER ON SOUTH WALL	8' 0"
	332-333							9' 7"
	334						NEW PLASTER ON SOUTH WALL OF OFFICE 332 & NORTH WALL OF OFFICE 333	8' 0"
	335						NEW PLASTER ON SOUTH, EAST & NORTH WALLS	10' 8"
	336						NEW PLASTER ON SOUTH & WEST WALLS	9' 7"
	337						NEW PLASTER ON WEST WALL	9' 7"
	338						NEW PLASTER ON SOUTH WALL	9' 0"
	339							
	340-341						NEW PLASTER ON NORTH AND EAST WALLS NEW PLASTER ON SOUTH AND NORTH WALLS	10' 8"
	342						NEW PLASTER ON SOUTH, WEST & NORTH WALLS	9' 7"
	343							10' 8"
	344-345						NEW PLASTER ON EAST WALL	10' 8"
	346						SEE NOTE AREA 136	
347							8' 0"	
348							8' 0"	
401							9' 7"	
402-403							10' 8"	
404						NEW PLASTER ON SOUTH WALL	10' 8"	
405						NEW PLASTER ON SOUTH WALL	8' 0"	
406-407						NEW PLASTER ON SOUTH WALL	10' 0"	
408						NEW PLASTER ON NORTH WALL	10' 8"	
409						NEW PLASTER ON SOUTH WALL	8' 0"	
410							8' 0"	
411							10' 8"	
412							8' 0"	
413							8' 0"	
414							10' 8"	
415						NEW PLASTER ON SOUTH WALL	8' 0"	
416							8' 0"	
417						PATCH PLASTER ON NORTH WALL	10' 8"	
418						NEW PLASTER ON SOUTH WALL	8' 0"	
419							8' 0"	
420-421						NEW PLASTER ON NORTH WALL	10' 8"	
422-423						NEW PLASTER ON NORTH & SOUTH WALLS & WEST WALL OF 421	10' 8"	
424						NEW PLASTER ON NORTH & SOUTH WALLS & WEST WALL OF 422	10' 8"	
425						NEW PLASTER ON NORTH & SOUTH WALLS	10' 8"	
426							8' 0"	
427							9' 0"	
428							9' 7"	
429								
430						REMOVE PLASTER ON WALL TO FINISHOUT EXIST. PLASTER CEILING		
431						NEW PLASTER ON NORTH & WEST WALLS	10' 8"	
432						NEW PLASTER ON SOUTH WALL & NORTH WALL	10' 8"	
433							8' 0"	
434-435						NEW PLASTER ON EAST WALL	10' 8"	
436-437						SEE NOTE AREA 136	9' 0"	
						NEW PROJECT NO. 7-00360-0	10' 8"	

AREA	ROOM NUMBER	FLOOR	BASE	WAINSCOT	WALLS	CEILING	REMARKS	CLG. HT.
	EXIST. TERR. TO REMAIN	EXIST. CONC. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN	EXIST. TERR. TO REMAIN
FOURTH FLOOR	301							9' 7"
	302						NEW PLASTER ON SOUTH & EAST WALLS	10' 8"
	303						NEW PLASTER ON SOUTH & EAST WALLS	10' 8"
	304							9' 7"
	305							8' 0"
	306-308						PLASTER REMOVED RM 306	8' 0"
	309							10' 8"
	310						NEW PLASTER ON SOUTH WALL	8' 0"
	311						PLASTER REMOVED RM 311	8' 0"
	312						NEW PLASTER ON NORTH WALL (EXIST. COLUMN)	10' 8"
	313							8' 0"
	314-316							8' 0"
	317						NEW PLASTER ON SOUTH WALL	8' 0"
	318							10' 8"
	319							10' 8"
	320						NEW PLASTER ON SOUTH WALL	10' 8"
	321						NEW PLASTER ON SOUTH WALL	10' 8"
	322-323						NEW PLASTER ON SOUTH WALL	10' 8"
	324						NEW PLASTER ON W. WALL OF 323 & N. WALL OF 322	8' 0"
	325						NEW PLASTER ON SOUTH & WEST WALLS	10' 8"
	326						NEW PLASTER ON SOUTH WALL	10' 8"
	327							8' 0"
	328						NEW PLASTER ON NORTH WALL	8' 0"
	329						NEW PLASTER ON NORTH WALL	8' 0"
	330							8' 0"
	331						NEW PLASTER ON SOUTH WALL	8' 0"
	332-333							9' 7"
	334						NEW PLASTER ON SOUTH WALL OF OFFICE 332 & NORTH WALL OF OFFICE 333	8' 0"
	335						NEW PLASTER ON SOUTH, EAST & NORTH WALLS	10' 8"
	336						NEW PLASTER ON SOUTH & WEST WALLS	9' 7"
	337						NEW PLASTER ON WEST WALL	9' 7"
	338						NEW PLASTER ON SOUTH WALL	9' 0"
	339							
	340-341						NEW PLASTER ON NORTH AND EAST WALLS NEW PLASTER ON SOUTH AND NORTH WALLS	10' 8"
	342						NEW PLASTER ON SOUTH, WEST & NORTH WALLS	9' 7"
	343							10' 8"
	344-345						NEW PLASTER ON EAST WALL	10' 8"
	346						SEE NOTE AREA 136	
347							8' 0"	
348							8' 0"	
401							9' 7"	
402-403							10' 8	

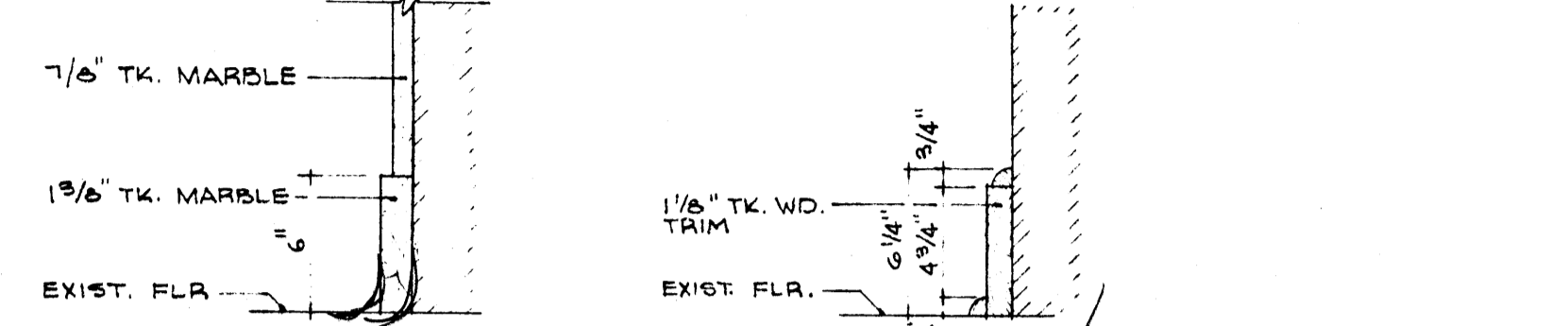
LEGEND - EXISTING WINDOW REPLACEMENT & REPAIR - SEE ELEVATIONS SHTS. A-7 & A-8

- 1 REPLACE ONE BROKEN GLASS PANE
- 2 REPLACE TWO BROKEN GLASS PANES
- 3 REPLACE ONE SASH BALANCE CHAIN
- 4 REPLACE TWO SASH BALANCE CHAINS
- 5 REPLACE UPPER WOOD SASH
- 6 REPLACE UPPER & LOWER WOOD SASH & EXT. WOOD CASING
- 7 REPLACE UPPER & LOWER WOOD SASH
- 8 REPLACE INTERIOR & EXTERIOR WOOD STOPS
- 9 REPLACE EXTERIOR WOOD STOPS
- 10 REPLACE EXTERIOR WOOD CASING
- 11 REPLACE EXISTING GLASS WITH OBSCURE GLASS

NOTE: ALL EXISTING WINDOWS TO BE RE-GLAZED, CAULKED, & CLEANED (SEE SPECS.) PAINT ALL EXISTING WINDOWS & FRAMES.

LEGEND - FLOOR PLAN NOTES

- 1 REMOVE WINDOW & CLOSE OPENING - FINISH TO MATCH ADJACENT WALL FINISH
- 2 REMOVE DOOR & FRAME, CLOSE OPENING - FINISH TO MATCH ADJACENT WALL FINISH - SEE DOOR REF. SCHEDULE FOR DOORS & FRAMES TO BE RE-USED.
- 3 REMOVE FIXED GLASS & CLOSE OPENING - FINISH TO MATCH ADJACENT WALL FINISH
- 4 REMOVE BREEZE WINDOW & CLOSE OPENING - FINISH TO MATCH ADJACENT WALL FINISH
- 5 NEW PARTITION TO EXTEND THRU CEILING TO BOTTOM OF STRUCTURE ABOVE.



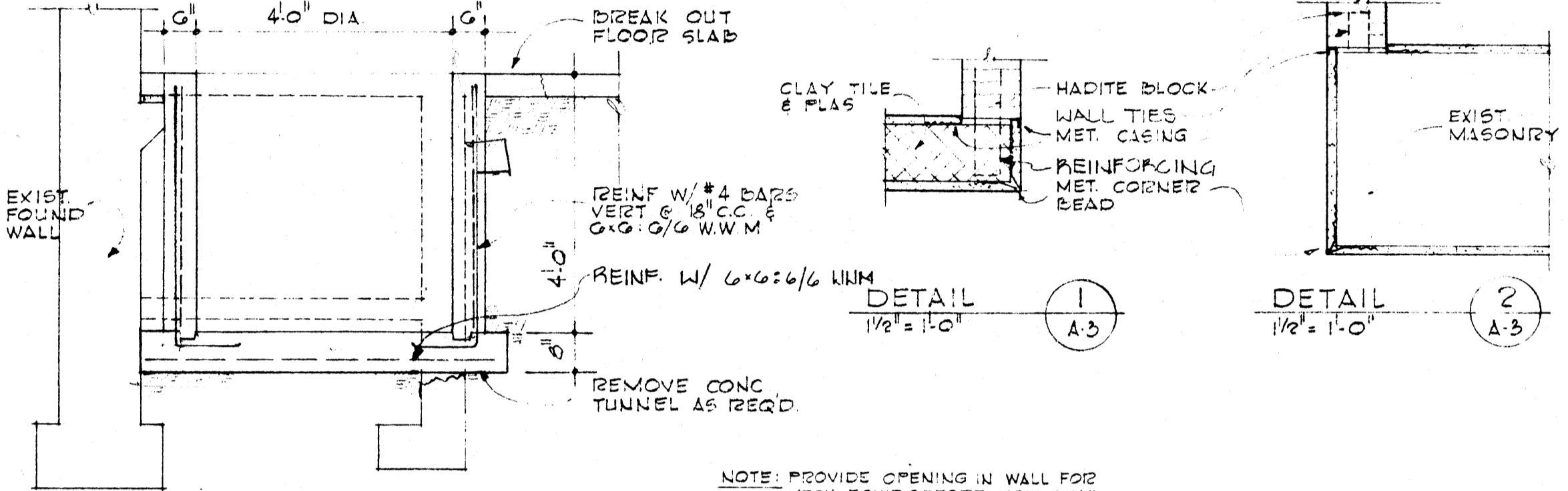
EXISTING MARBLE BASE SCALE: 1/2" = 1'-0"
EXISTING WOOD BASE SCALE: 1/2" = 1'-0"

DOOR REFERENCE SCHEDULE

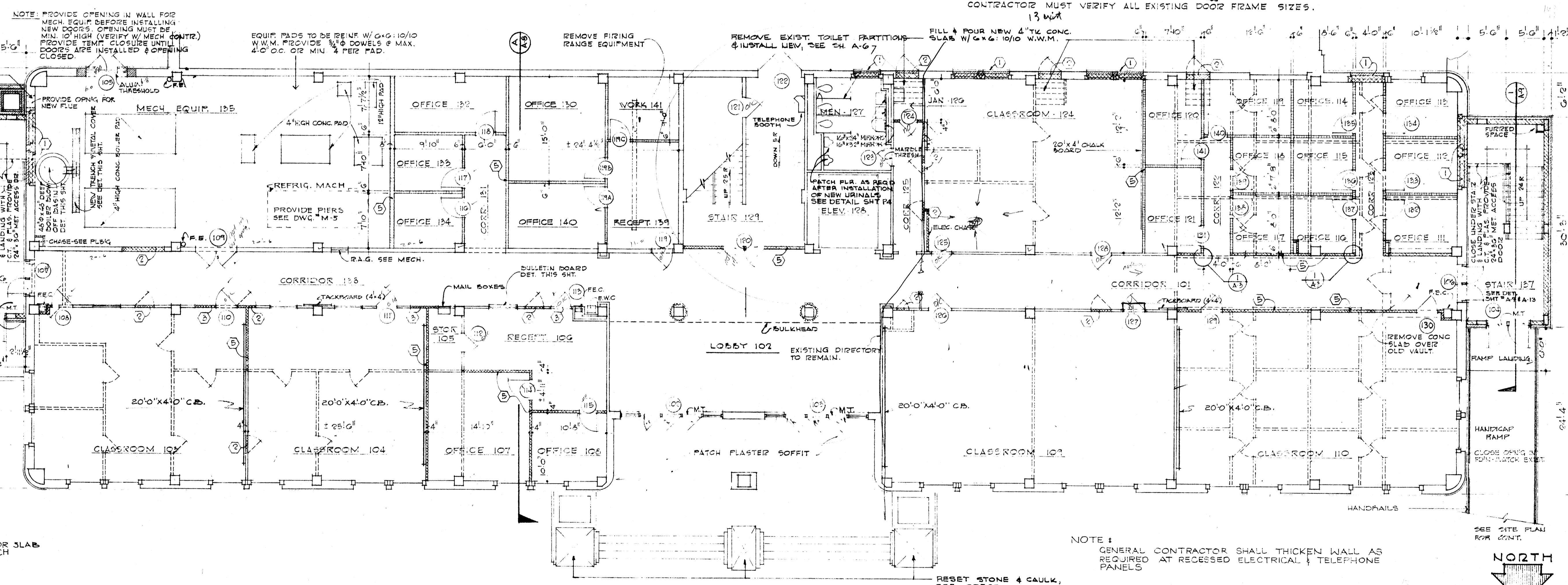
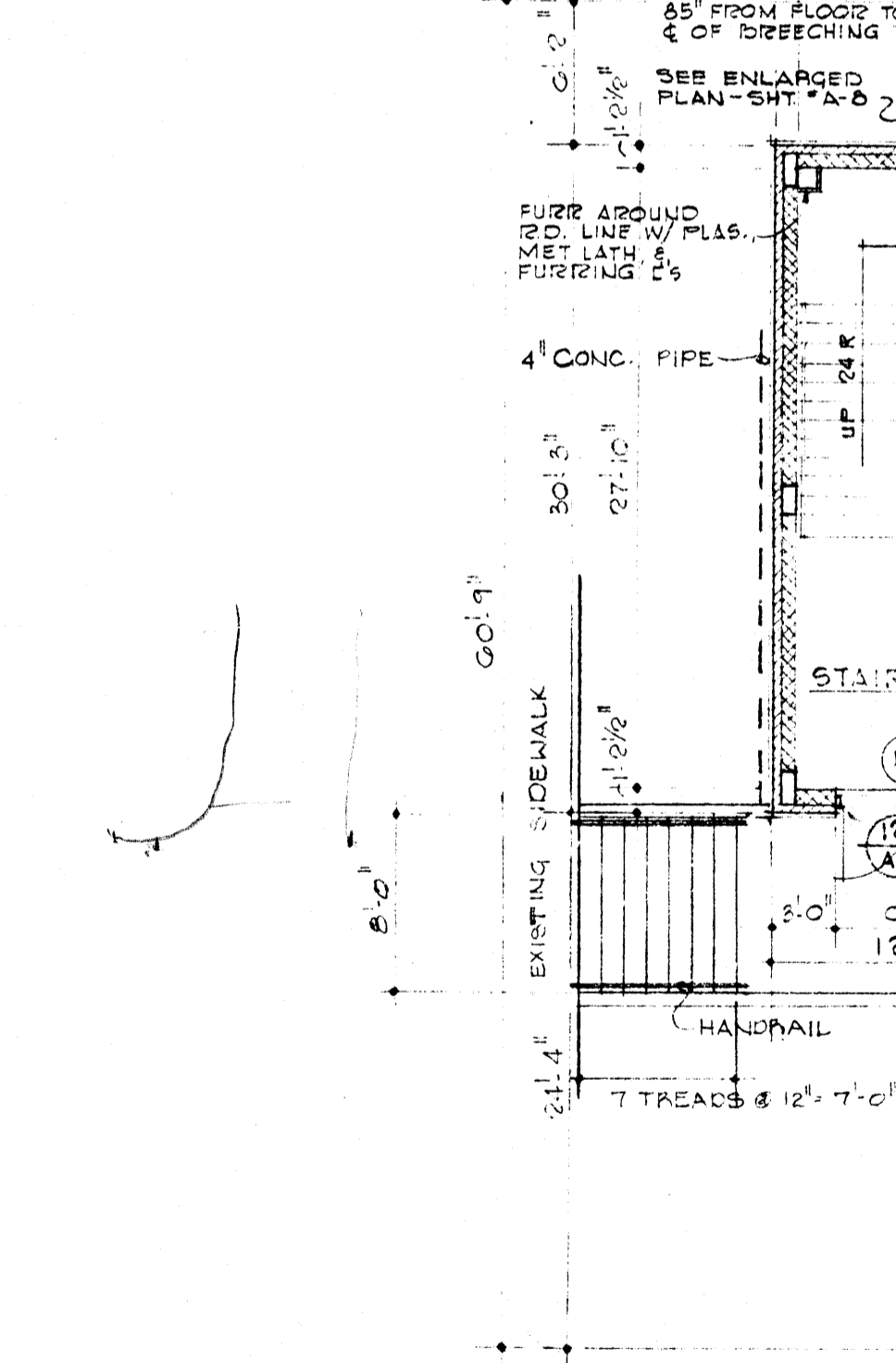
OPNG MARK	DOOR TYPE	DOOR LABEL	FRAME TYPE	FRAME ELEV.	FRAME MATL.	HWDE GROUP	GRILLE SIZE	REMARKS
101	2-A		F-1	E-6	ALUM.	4		
102	2-A		EXIST.			2		VERIFY OPENING SIZE
103	2-A		EXIST.			2		VERIFY OPENING SIZE
104	2-A		F-1	E-6	ALUM.	4		
105	2-A		F-7	E-7	H.M.	6		CONT. DOOR LIGHT - ADD 2 DOOR CLOSERS
106	2-B	1/2 HR B	F-2	E-2	H.M.	4		
107	2-B	1/2 HR B	F-2	E-2	H.M.	4		
108	RELOCATED		RELOCATED			5	18X10 1/2	EXISTING FRAME W/ TRANSOM
109	2-C	1/2 HR C	F-3	E-3	H.M.	6		CONT. DOOR LIGHT
110	RELOCATED		RELOCATED			5	18X10 1/2	EXISTING FRAME W/ TRANSOM
111	EXIST.		EXIST.			5	18X10 1/2	
112	EXIST.		EXIST.			7		
113	RELOCATED		RELOCATED			13	18X10 1/2	EXISTING FRAME W/ TRANSOM
114	F		F-5	E-3	H.M.	8		UNDERCUT DOOR 3/4"
115	F		F-5	E-3	H.M.	8		SAME
116	F		F-6	E-3	H.M.	8		SAME
117	F		F-6	E-3	H.M.	8		SAME
118	F		F-6	E-3	H.M.	8		SAME
119	RELOCATED		RELOCATED			5	22X14 1/2	EXISTING FRAME W/ TRANSOM
120	2-C	1/2 HR C	F-5	E-1	H.M.	4		
121	EXIST.		EXIST.			10		
122	EXIST.		EXIST.			11		
123	EXIST.		EXIST.			12	22X14 1/2	NEW MARBLE THRESHOLD
124	F		F-5	E-3	H.M.	10	14X9 3/4	
125	RELOCATED		RELOCATED			5	18X10 1/2	EXISTING FRAME W/ TRANSOM
126	EXIST.		EXIST.			5	18X10 1/2	
127	F		F-4	E-4	H.M.	5	18X10 1/2	
128	EXIST.		EXIST.			5	18X10 1/2	
129	RELOCATED		RELOCATED			5	18X10 1/2	EXISTING FRAME W/ TRANSOM
130	F		F-4	E-4	H.M.	5	18X10 1/2	
131	F		F-3	E-3	H.M.	8		UNDERCUT DOOR 3/4"
132	F		F-3	E-3	H.M.	8		SAME
133	F		F-3	E-3	H.M.	8		SAME
134	F		F-3	E-3	H.M.	8		SAME
135	F		F-3	E-3	H.M.	8		SAME
136	F		F-3	E-3	H.M.	8		SAME
137	F		F-3	E-3	H.M.	8		SAME
138	F		F-3	E-3	H.M.	8		SAME
139	F		F-3	E-3	H.M.	8		SAME
140	F		F-3	E-3	H.M.	8		SAME
141	F		F-3	E-3	H.M.	8		SAME
142	I		EXIST.		H.M.	10		FOR TRANSFORMER VAULT - SEE SH. A-1

CONTRACTOR MUST VERIFY ALL EXISTING DOOR FRAME SIZES.

SECTION THRU BULLETIN BOARD
SCALE: 1/2" FULL SIZE

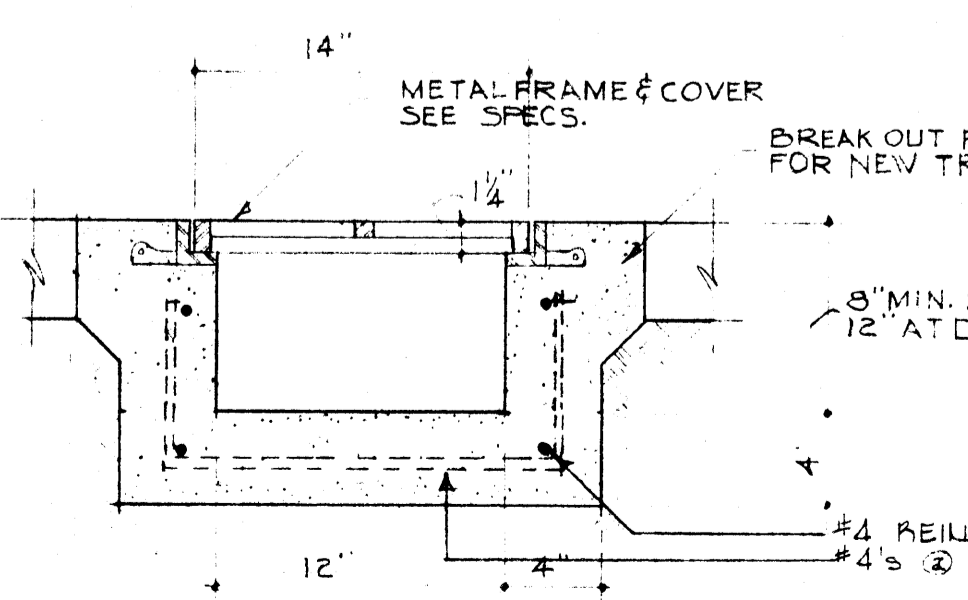


BOILER BLOW-OFF BASIN
SCALE: 1/2" = 1'-0"



FIRST FLOOR PLAN

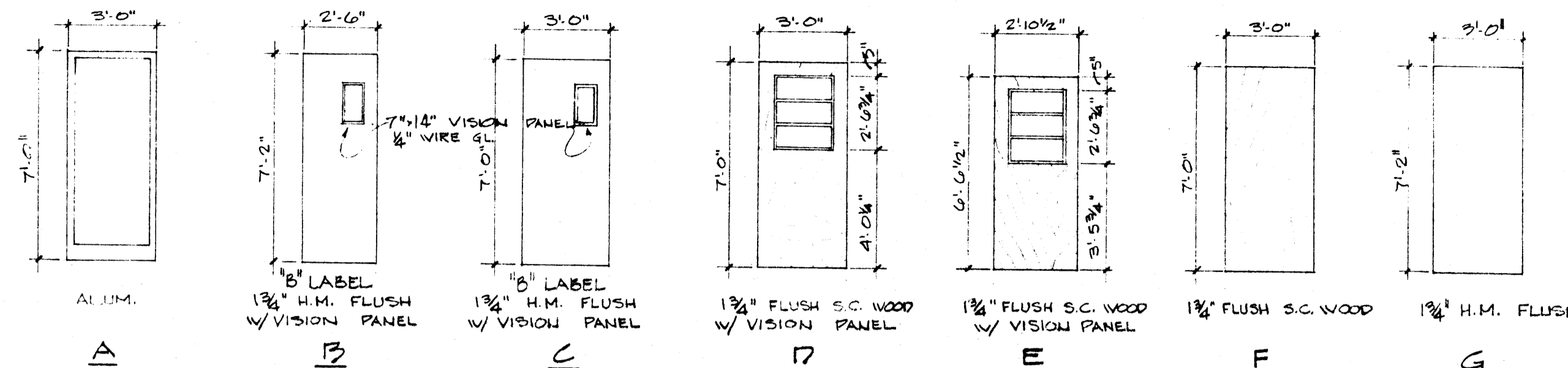
NOTE: REMOVE ALL EXISTING CHALKBOARDS - SEE SPECS.



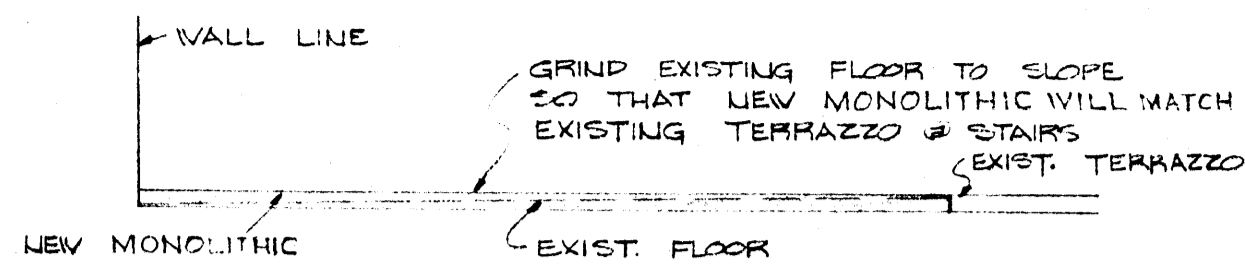
TRENCH DETAIL
SCALE: 1/2" = 1'-0"

SCALE: 1/8" = 1'-0" HEW PROJECT NO. 7-00360-0

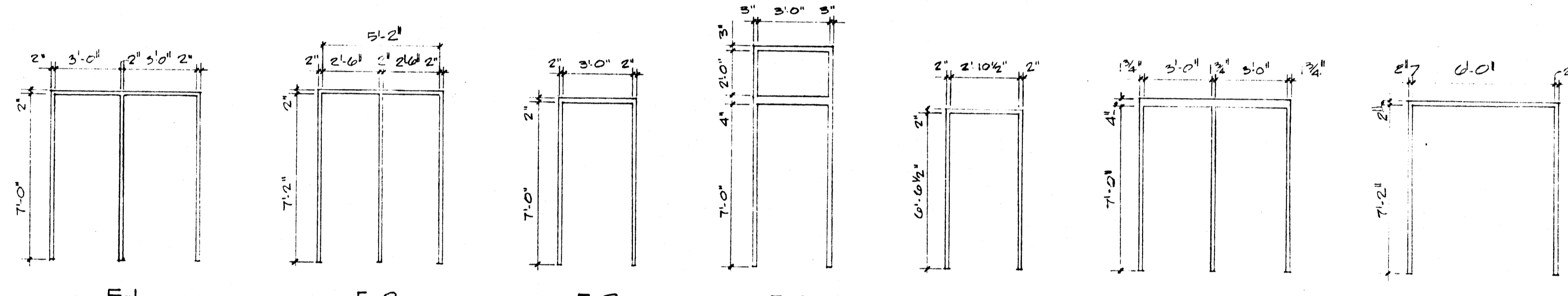
DATE: 7-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER A-3
DRAWN BY:		
CHECKED BY:		
REVISIONS:		
STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS		COMMISSION NUMBER 51166



DOOR TYPE SCHEDULE
SCALE: 1/4" = 1'-0"



STAIR 229-FLOOR DETAIL

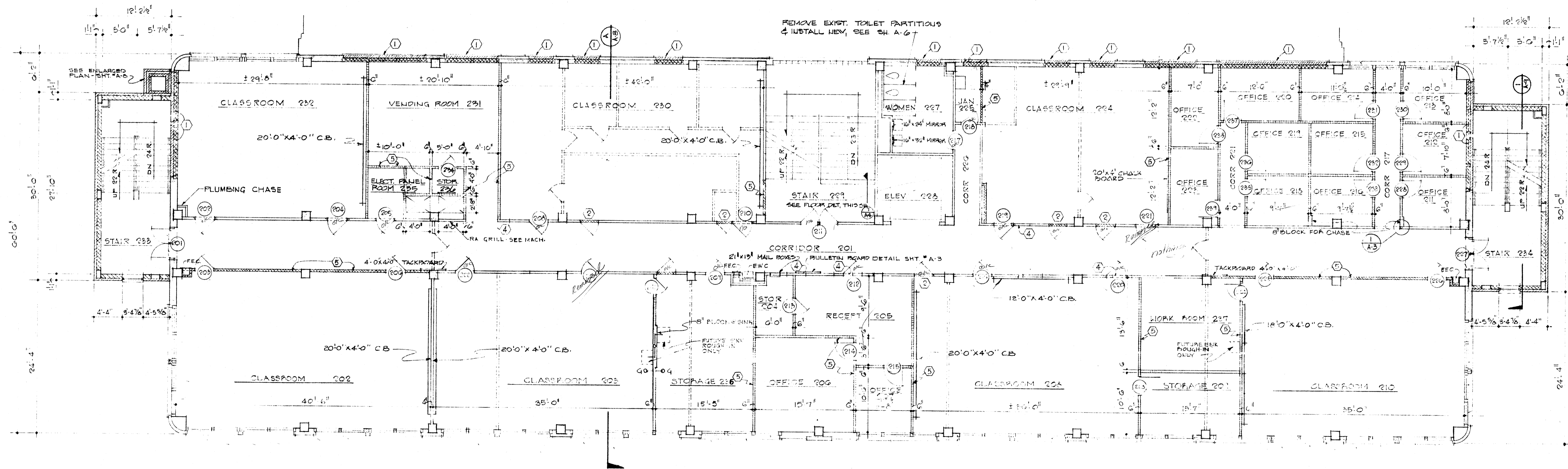


HOLLOW METAL FRAME ELEVATIONS
SCALE: 1/4" = 1'-0"

ALUM. FRAME HOLLOW METAL FRAME

DOOR REFERENCE SCHEDULE									
OP'NG MARK	DOOR TYPE	DOOR LABEL	FRAME TYPE	ELEV.	MAT'L	HOWE GROUP	GRILLE SIZE	REMARKS	
201	2-B	1 1/2 HR 15'	F-2	E-2	H.M.	4			
202	RELOCATED		RELOCATED			5	18'x10 1/2"		EXIST. FRAME W/ TRANSOM
203	RELOCATED		RELOCATED			5	22'x14 3/4"		SAME
204	RELOCATED		RELOCATED			5	18'x10 1/2"		SAME
205	RELOCATED		RELOCATED			5	18'x10 1/2"		SAME
206	7		VF-4	E-4	H.M.	5	22'x14 3/4"		
207	7		VF-4	E-4	H.M.	5	22'x14 3/4"		
208	EXIST.		EXIST.	E-4	H.M.	5	18'x10 1/2"		
209	EXIST.		EXIST.	E-4	H.M.	5	22'x14 3/4"		
210	7		VF-4	E-4	H.M.	5	18'x10 1/2"		
211	2-C	1 1/2 HR 15'	F-3	E-1	H.M.	4			REPLACE EXIST. DOOR & FRAME
212	RELOCATED		RELOCATED			13	18'x10 1/2"		EXIST. FRAME W/ TRANSOM
213	F		F-6	E-3	H.M.	7			
214	F		F-6	E-3	H.M.	8			UNDERCUT DOOR 3/4"
215	F		F-6	E-3	H.M.	8			SAME
216	EXIST.		EXIST.	E-3	H.M.	5	18'x10 1/2"		
217	EXIST.		EXIST.	E-3	H.M.	12	22'x14 3/4"		
218	EXIST.		EXIST.	E-3	H.M.	10	14'x7 1/2"		
219	RELOCATED		RELOCATED			5	18'x10 1/2"		EXIST. FRAME W/ TRANSOM
220	RELOCATED		RELOCATED			5	18'x10 1/2"		SAME
221	7		VF-4	E-4	H.M.	5	18'x10 1/2"		
222	EXIST.		EXIST.	E-4	H.M.	5	18'x10 1/2"		
223	F		F-6	E-3	H.M.	14			
224	F		F-6	E-3	H.M.	14			
225	7		VF-4	E-4	H.M.	5	18'x10 1/2"		
226	7		VF-4	E-4	H.M.	5	18'x10 1/2"		
227	2-B	1 1/2 HR 15'	F-2	E-2	H.M.	4			UNDERCUT DOOR 3/4"
228	F		F-6	E-3	H.M.	8			SAME
229	F		F-6	E-3	H.M.	8			SAME
230	F		F-6	E-3	H.M.	8			SAME
231	F		F-6	E-3	H.M.	8			SAME
232	F		F-6	E-3	H.M.	8			SAME
233	F		F-6	E-3	H.M.	8			SAME
234	F		F-6	E-3	H.M.	10			SAME
235	F		F-6	E-3	H.M.	8			SAME
236	F		F-6	E-3	H.M.	8			SAME
237	F		F-6	E-3	H.M.	8			SAME
238	F		F-6	E-3	H.M.	8			SAME
239	F		F-6	E-3	H.M.	8			SAME
240	F		F-6	E-3	H.M.	8			SAME

CONTRACTOR MUST VERIFY ALL EXISTING DOOR FRAME SIZES.
-1



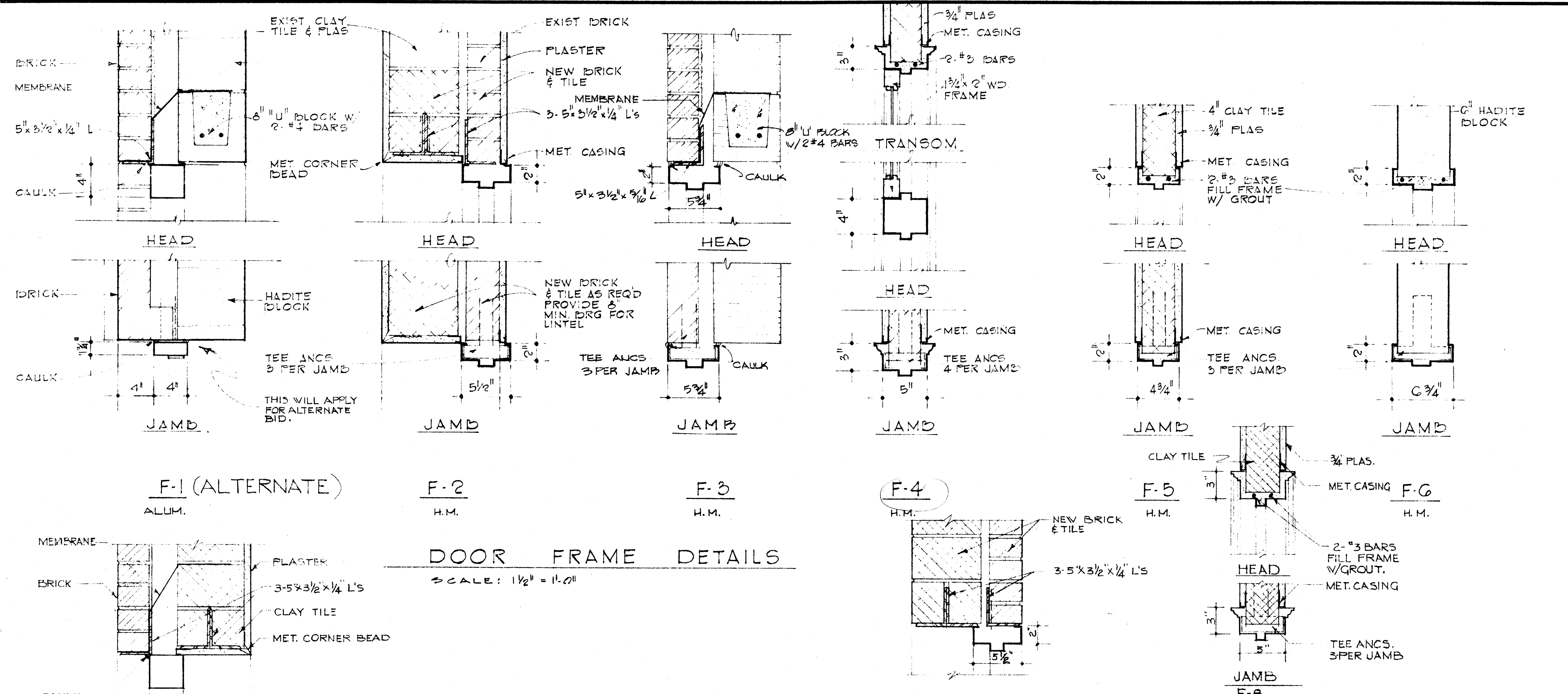
SECOND FLOOR PLAN

NOTE: GENERAL CONTRACTOR SHALL THICKEN WALL AS REQUIRED AT RECESSED ELECTRICAL & TELEPHONE PANELS.

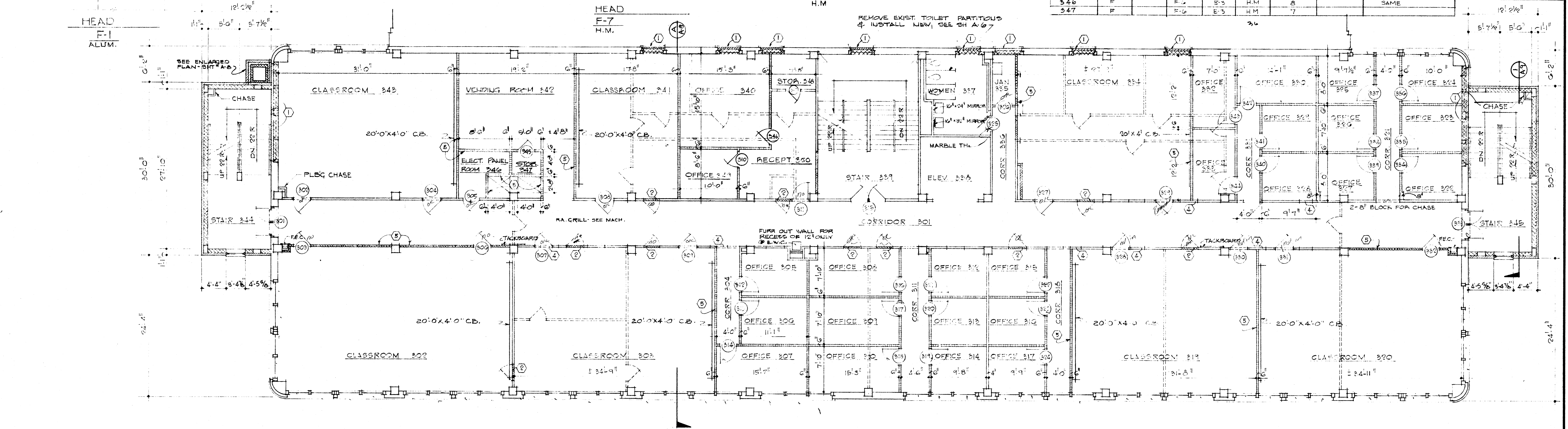


SCALE: 1/8" = 1'-0" H.E.W. PROJECT NO. 7-00380-0

DATE 2-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	SHEET NUMBER A-4
DRAWN BY		COMMISSION NUMBER 51168
CHECKED BY		
REVISIONS		



DOOR REFERENCE SCHEDULE									
OP'NG MARK	DOOR TYPE	DOOR LABEL	FRAME TYPE	FRAME ELEV.	FRAME MAT'L	H/W GROUP	GRILLE SIZE	REMARKS	
301	2-B	1 1/2 HR B	F-2	E-2	H.M.	4			
302	RELOCATED		RELOCATED			5	18 x 10 1/2		EXIST. FRAME W/TRANSOM
303	RELOCATED		RELOCATED			5	18 x 10 1/2		SAME
304	RELOCATED		RELOCATED			5	18 x 10 1/2		SAME
305	RELOCATED		RELOCATED			5			SAME
306	RELOCATED		RELOCATED			5	18 x 10 1/2		SAME
307	RELOCATED		RELOCATED			5	18 x 10 1/2		SAME
308	EXIST.		EXIST.			5	18 x 10 1/2		
309	RELOCATED		RELOCATED			5	18 x 10 1/2		
310	F		F-6	E-4	H.M.	8			
311	D		F-4	E-4	H.M.	8	14 x 9 1/4		
312	F		F-6	E-3	H.M.	8			UNDERCUT DOOR 3/4"
313	F		F-6	E-3	H.M.	8			SAME
314	F		F-6	E-3	H.M.	8			SAME
315	2-C	1 1/2 HR B	F-5	E-1	H.M.	4			REPLACE EXIST. DOORS & FRAMES
316	F		F-6	E-3	H.M.	8			UNDERCUT DOOR 3/4"
317	F		F-6	E-3	H.M.	8			SAME
318	F		F-6	E-3	H.M.	8			SAME
319	F		F-6	E-3	H.M.	8			SAME
320	F		F-6	E-3	H.M.	8			SAME
321	F		F-6	E-3	H.M.	8			SAME
322	F		F-6	E-3	H.M.	8			SAME
323	F		F-6	E-3	H.M.	8			SAME
324	F		F-6	E-3	H.M.	8			SAME
325	EXIST.		EXIST.			12	22 x 14 3/4		NEW MARBLE THRESHOLD
326	EXIST.		EXIST.			10	14 x 9 1/4		
327	RELOCATED		RELOCATED			5	18 x 10 1/2		EXIST. FRAME W/TRANSOM
328	D		F-4	E-4	H.M.	5	18 x 10 1/2		
329	D		F-4	E-4	H.M.	5	18 x 10 1/2		
330	D		F-4	E-4	H.M.	5	18 x 10 1/2		
331	D		F-4	E-4	H.M.	5	18 x 10 1/2		
332	D		F-4	E-4	H.M.	5	18 x 10 1/2		
333	2-B	1 1/2 HR B	F-2	E-2	H.M.	4			
334	F		F-6	E-3	H.M.	8			UNDERCUT DOOR 3/4"
335	F		F-6	E-3	H.M.	8			SAME
336	F		F-6	E-3	H.M.	8			SAME
337	F		F-6	E-3	H.M.	8			SAME
338	F		F-6	E-3	H.M.	8			SAME
339	F		F-6	E-3	H.M.	8			SAME
340	F		F-6	E-3	H.M.	8			SAME
341	F		F-6	E-3	H.M.	8			SAME
342	F		F-6	E-3	H.M.	8			SAME
343	F		F-6	E-3	H.M.	8			SAME
344	F		F-6	E-3	H.M.	8			SAME
345	F		F-6	E-3	H.M.	10			
346	F		F-6	E-3	H.M.	8			SAME
347	F		F-6	E-3	H.M.	7			



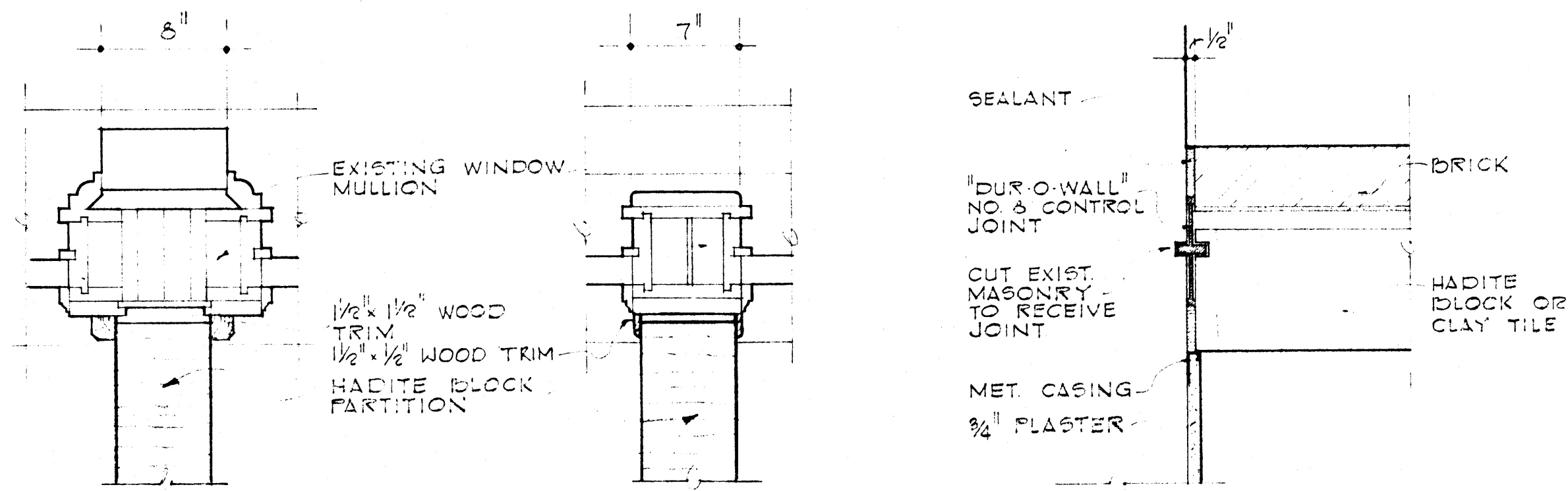
NOTE:
GENERAL CONTRACTOR SHALL THICKEN WALL AS REQUIRED AT RECESSED ELECTRICAL & TELEPHONE PANELS.

NORTH
↓

THIRD FLOOR PLAN

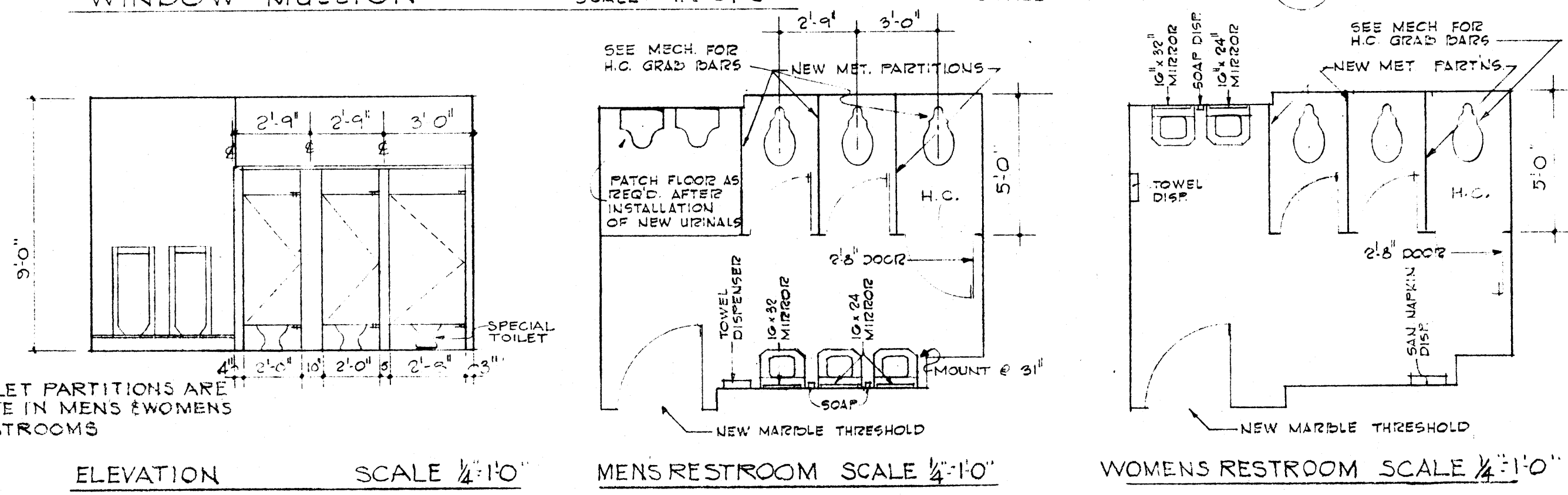
SCALE: 1/8" = 1'-0" HEW PROJECT NO. 7-00380-0

DATE 6-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER A-5
DRAWN BY		
CHECKED BY		
REVISIONS		
STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS		COMMISSION NUMBER 51108
601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS		



PARTITION INTERSECTION AT EXISTING WINDOW MULLION SCALE: 1/2" = 1'-0"

DETAIL SCALE: 1/2" = 1'-0"



ELEVATION

SCALE 1/4" = 1'-0"

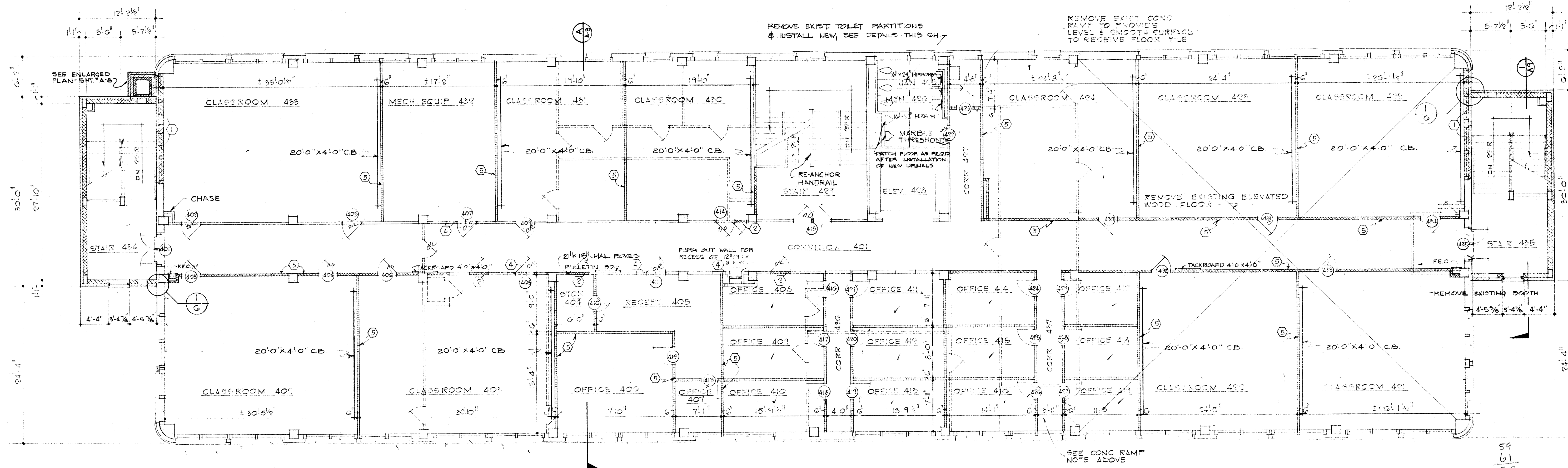
MENS RESTROOM SCALE 1/4" = 1'-0"

WOMENS RESTROOM SCALE 1/4" = 1'-0"

NEW MARBLE THRESHOLD FULL SIZE

DOOR REFERENCE SCHEDULE									
OPNG MARK	DOOR TYPE	DOOR LABEL	FRAME TYPE	FRAME ELEV.	FRAME MAT'L	HDWE GROUP	GRILLE SIZE	REMARKS	
421	2-B	1 1/2 HR'B	F2	E-2	H.M.	4			
422	RELOCATED		RELOCATED			5	18" X 10 1/2"		EXIST. FRAME W/ TRANSOM
423	RELOCATED		RELOCATED			5	18" X 10 1/2"		SAME
424	D		F4	E-4	H.M.	5	18" X 10 1/2"		
425	RELOCATED		RELOCATED			5	18" X 10 1/2"		SAME
426	D		VF4	E-4	H.M.	5	18" X 10 1/2"		
427	RELOCATED		RELOCATED			5	18" X 10 1/2"		SAME
428	RELOCATED		RELOCATED			5	18" X 10 1/2"		SAME
429	EXIST.		EXIST.			5	18" X 10 1/2"		
410	RELOCATED		FG	E-3	H.M.	7			
411	RELOCATED		RELOCATED			13	18" X 10 1/2"		SAME
412	F		FG	E-3	H.M.	8			UNDERCUT DOOR 3/4"
413	F		FG	E-3	H.M.	8			SAME
414	D		F4	E-4	H.M.	5	18" X 10 1/2"		
415	2-C	1 1/2 HR'B	F-5	E-1	H.M.	1			REPLACE EXIST. DOORS & FRAMES
416	RELOCATED		FG	E-3	H.M.	8			UNDERCUT DOOR 3/4"
417	RELOCATED		FG	E-3	H.M.	8			SAME
418	RELOCATED		FG	E-3	H.M.	8			SAME
419	F		FG	E-3	H.M.	8			SAME
420	F		FG	E-3	H.M.	8			SAME
421	F		FG	E-3	H.M.	8			SAME
422	EXIST.		EXIST.			12	22" X 14 1/2"		NEW MARBLE THRESHOLD
423	RELOCATED		FG	E-3	H.M.	8	14" X 7 1/2"		
424	RELOCATED		FG	E-3	H.M.	8			UNDERCUT DOOR 3/4"
425	RELOCATED		FG	E-3	H.M.	8			SAME
426	RELOCATED		FG	E-3	H.M.	8			SAME
427	RELOCATED		FG	E-3	H.M.	8			SAME
428	RELOCATED		FG	E-3	H.M.	8			SAME
429	RELOCATED		FG	E-3	H.M.	8			SAME
430	D		F4	E-4	H.M.	5	18" X 10 1/2"		
431	D		F4	E-4	H.M.	5	18" X 10 1/2"		
432	D		F4	E-4	H.M.	5	18" X 10 1/2"		
433	D		F4	E-4	H.M.	5	18" X 10 1/2"		
434	D		F4	E-4	H.M.	5	18" X 10 1/2"		
435	2-B	1 1/2 HR'B	F2	E-2	H.M.	4			

FI EXISTING EXISTING 5 STAIR TO PENTHOUSE

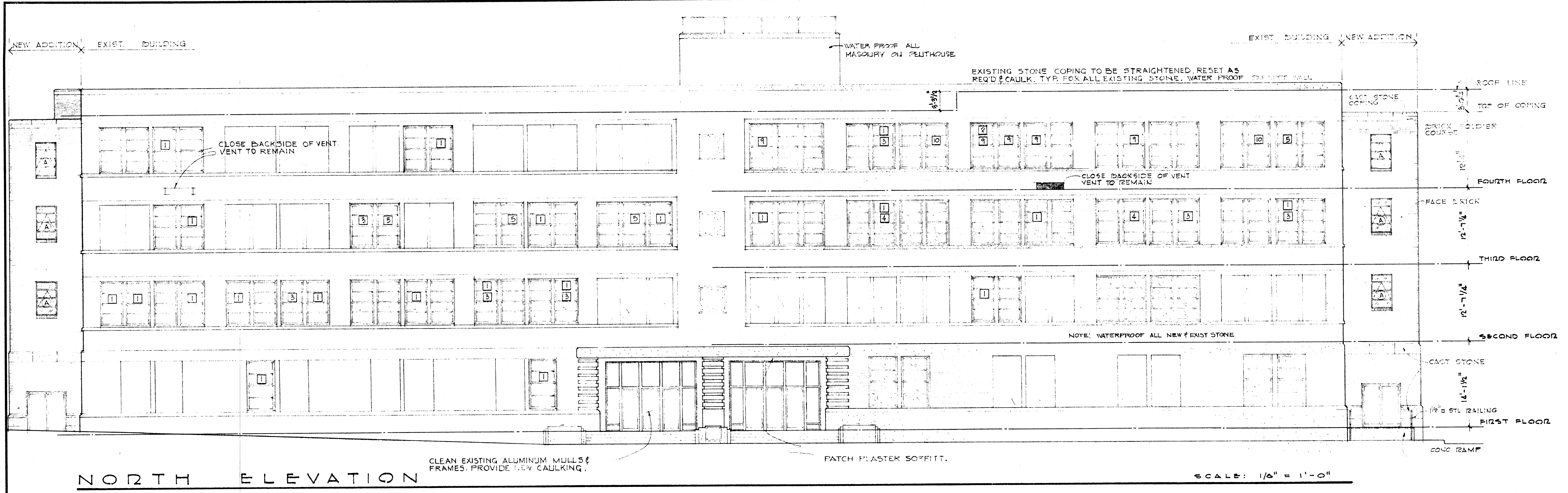


FOURTH FLOOR PLAN

SCALE: 1/8" = 1'-0"

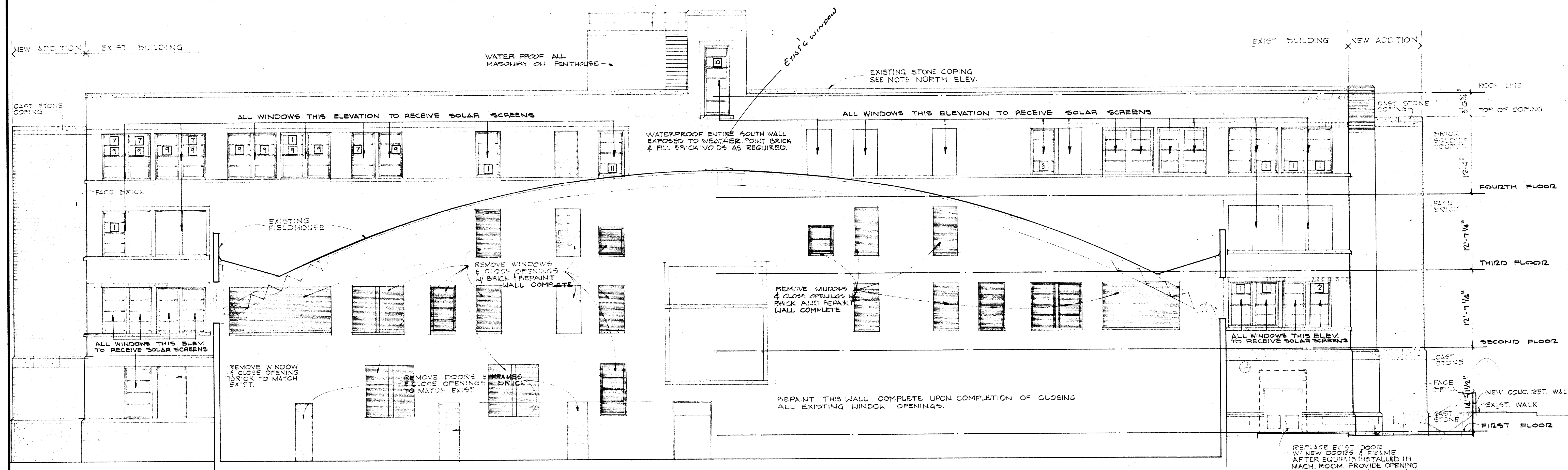
HEW PROJECT NO. 7-00380-0

DATE	2/1/60	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	SHEET NUMBER A-6 COMMISSION NUMBER 51163
DRAWN BY			
CHECKED BY			
REVISIONS			



NORTH ELEVATION

SCALE: 1/8" = 1'-0"



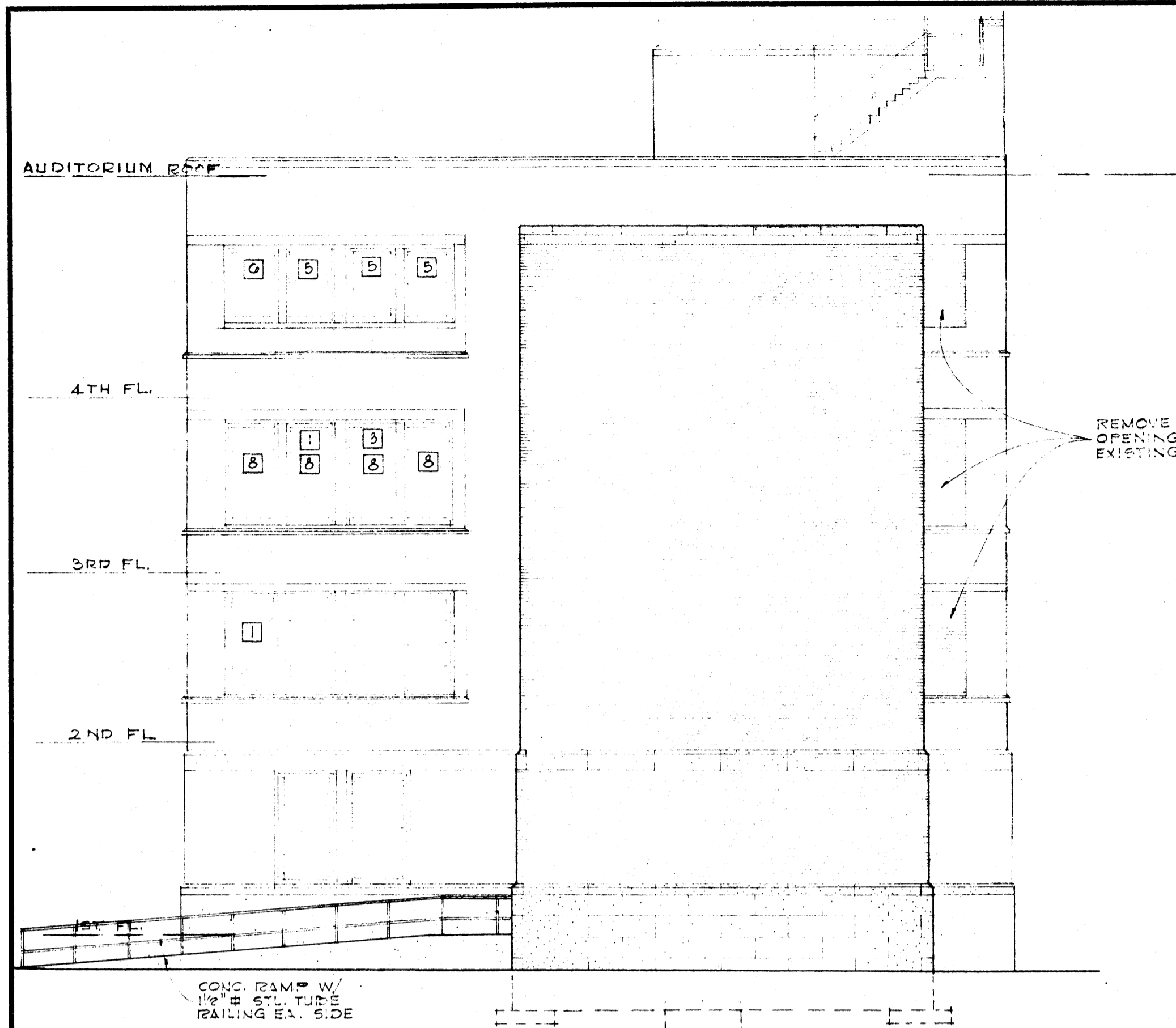
SOUTH ELEVATION

SCALE: 1/8" = 1'-0"

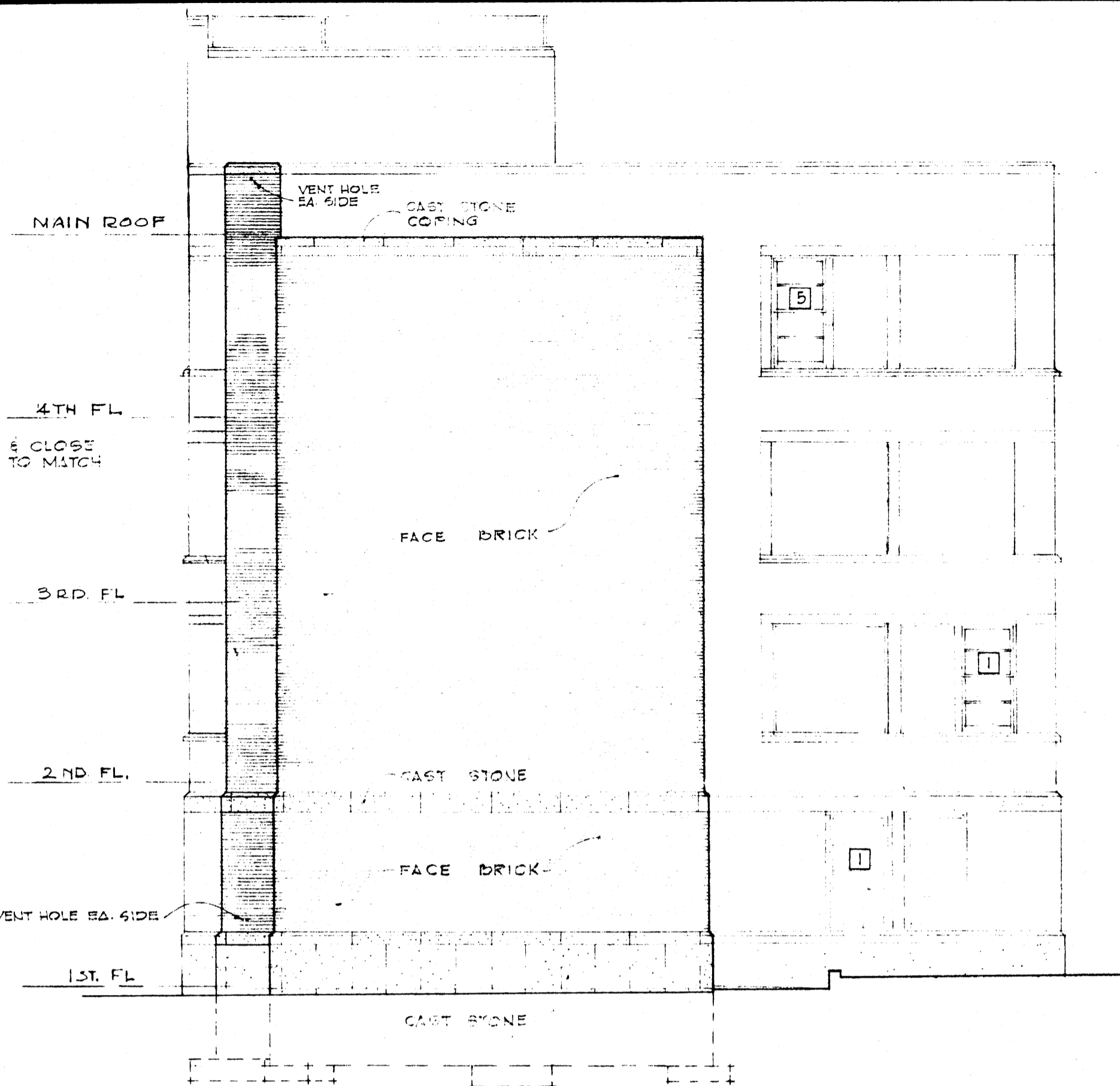
NEW PROJECT NO. 7-00380-0

ALL EXTERIOR WINDOWS THIS ELEVATION TO RECEIVE SOLAR SCREENS

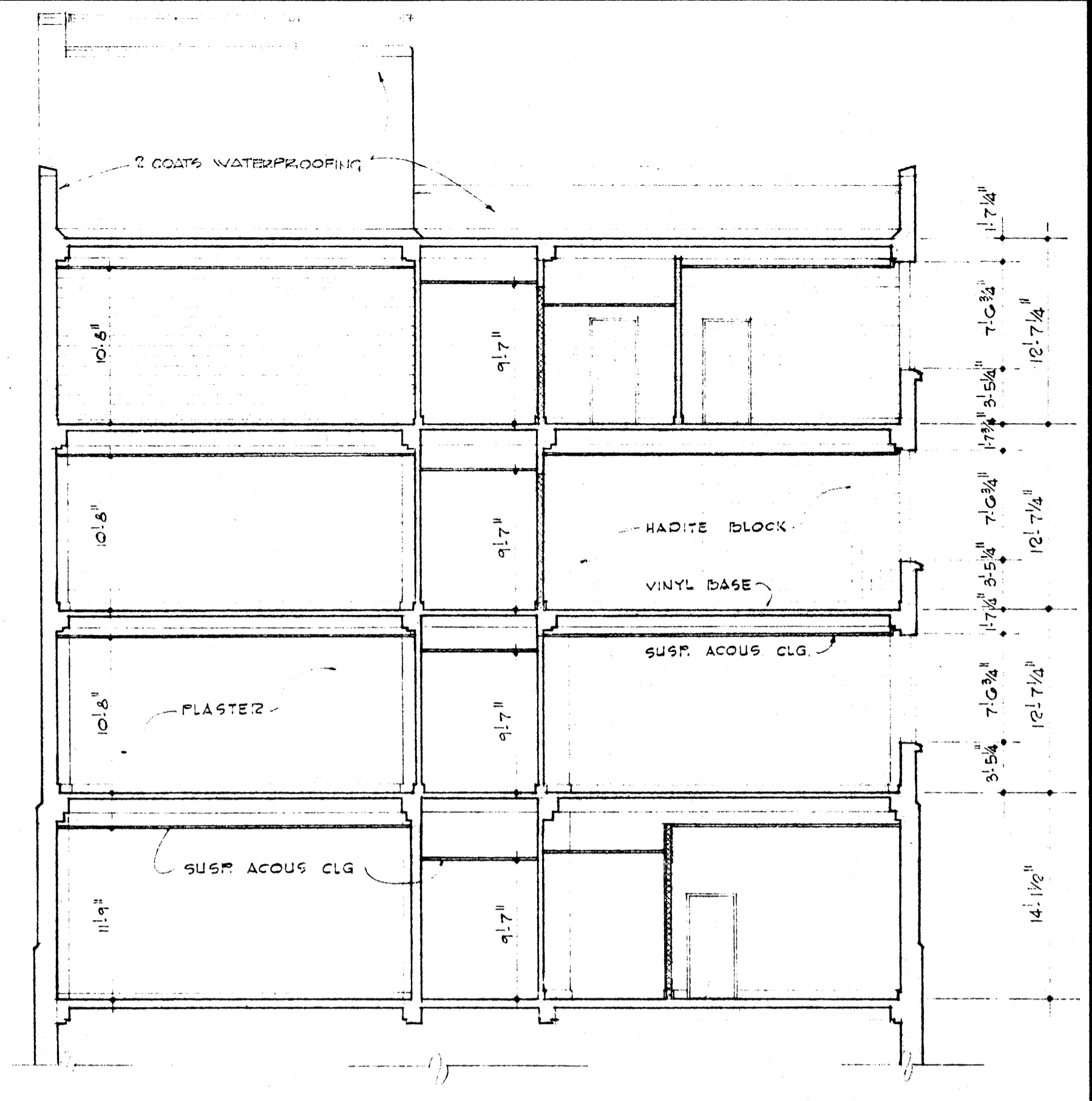
DATE	0-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER A-7 COMMISSION NUMBER 51028
DRAWN BY			
CHECKED BY			
REVISIONS			
STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS			



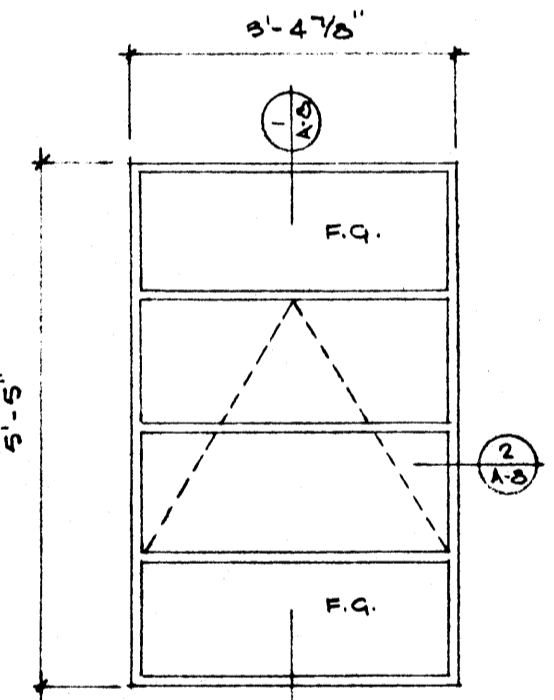
WEST ELEVATION
SCALE: 1/8" = 1'-0"



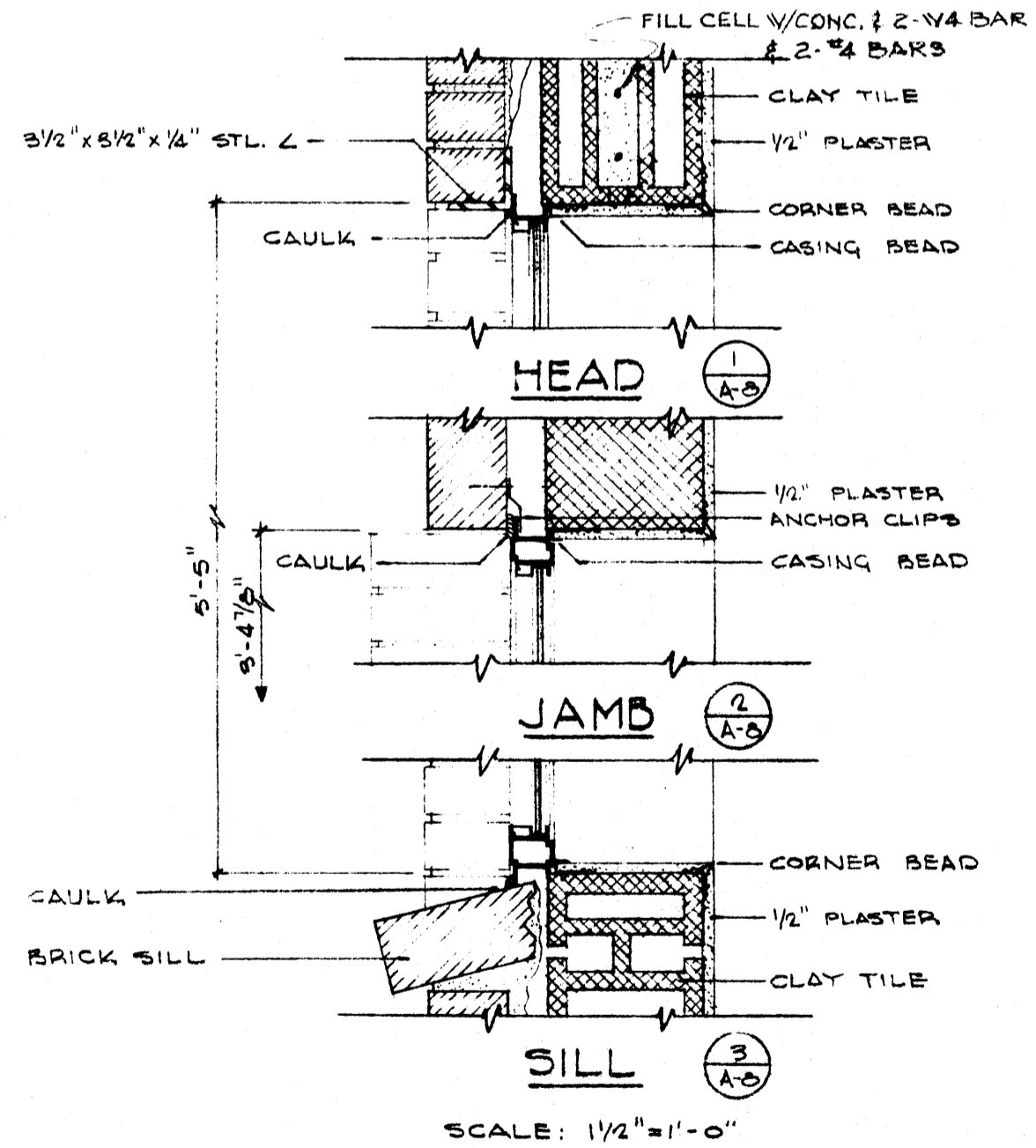
EAST ELEVATION
SCALE: 1/8" = 1'-0"



BLDG SECTION
SCALE: 1/8" = 1'-0"

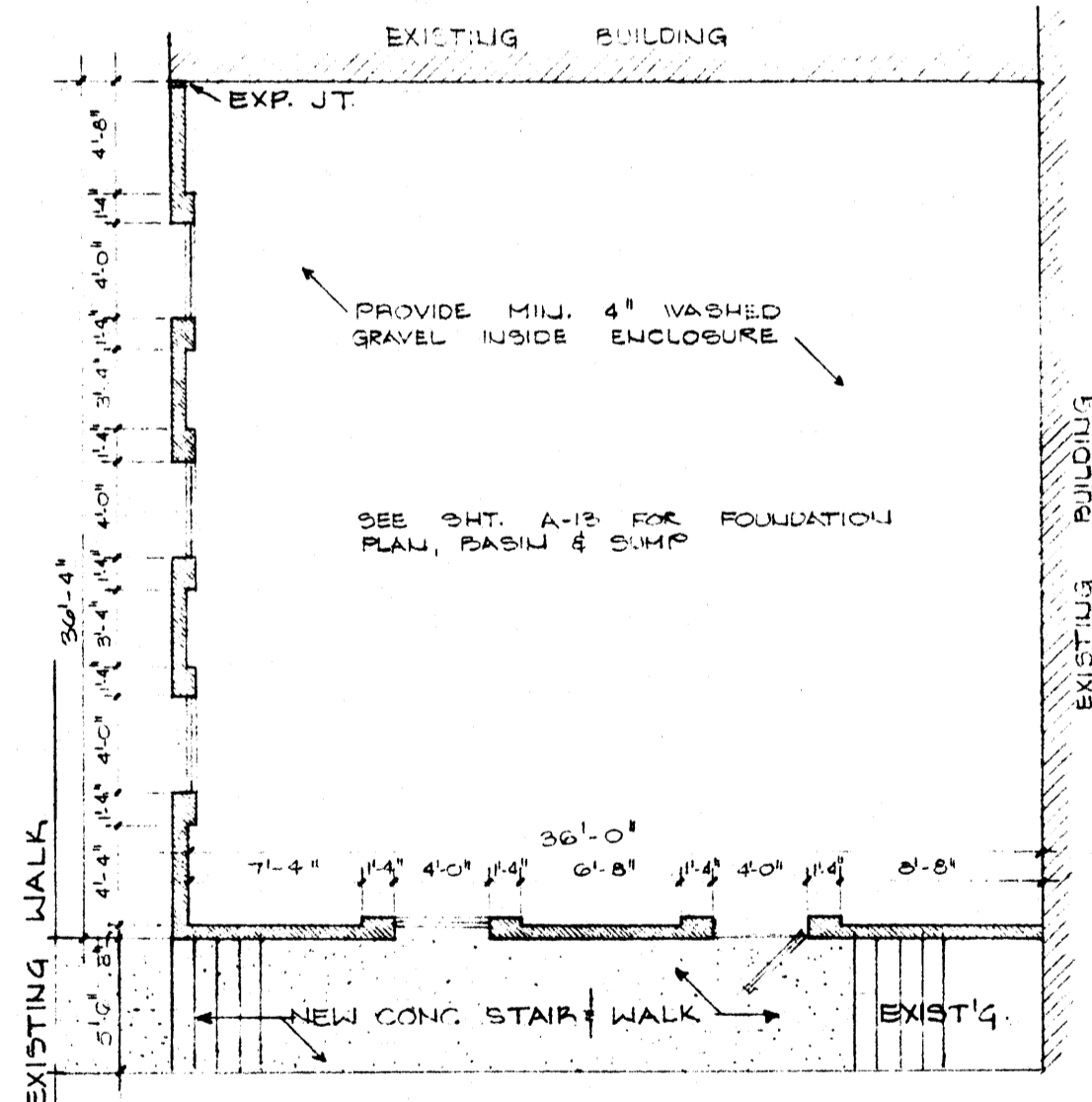


ELEVATION
SCALE: 1/2" = 1'-0"

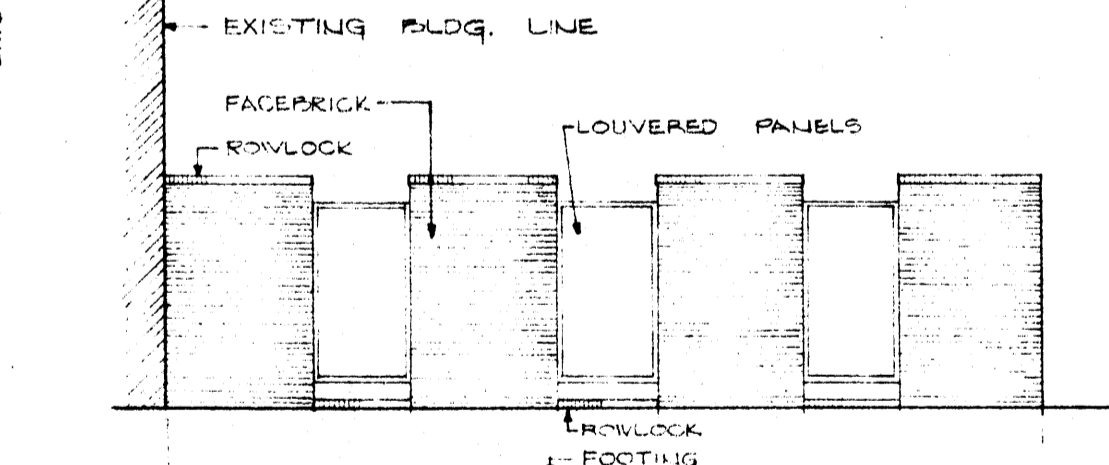


SCALE: 1/2" = 1'-0"

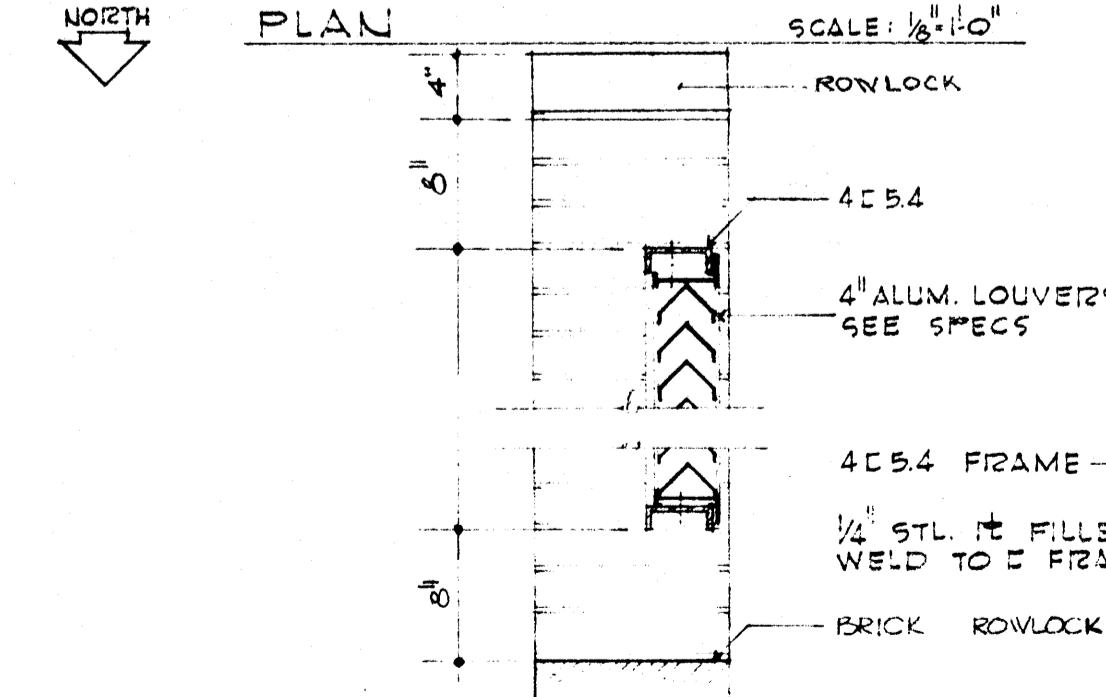
PROJECTED WINDOW DETAILS
WINDOW MARK (A)



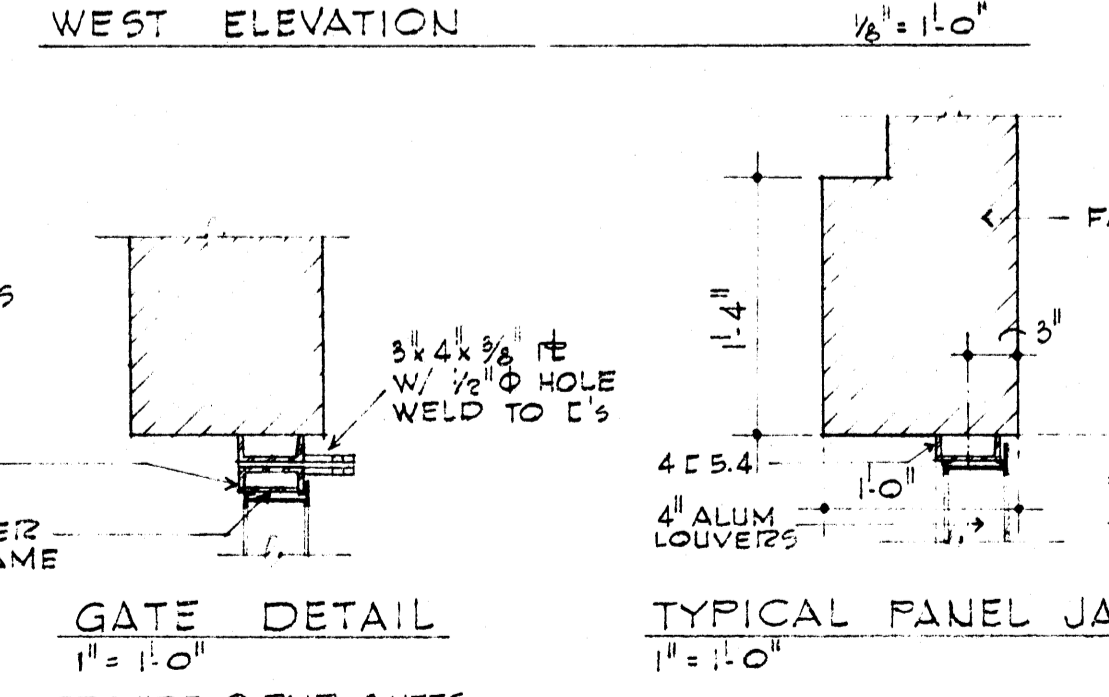
NORTH ELEVATION
SCALE: 1/8" = 1'-0"



WEST ELEVATION
SCALE: 1/8" = 1'-0"



TYPICAL PANEL SECTION
SCALE: 1" = 1'-0"

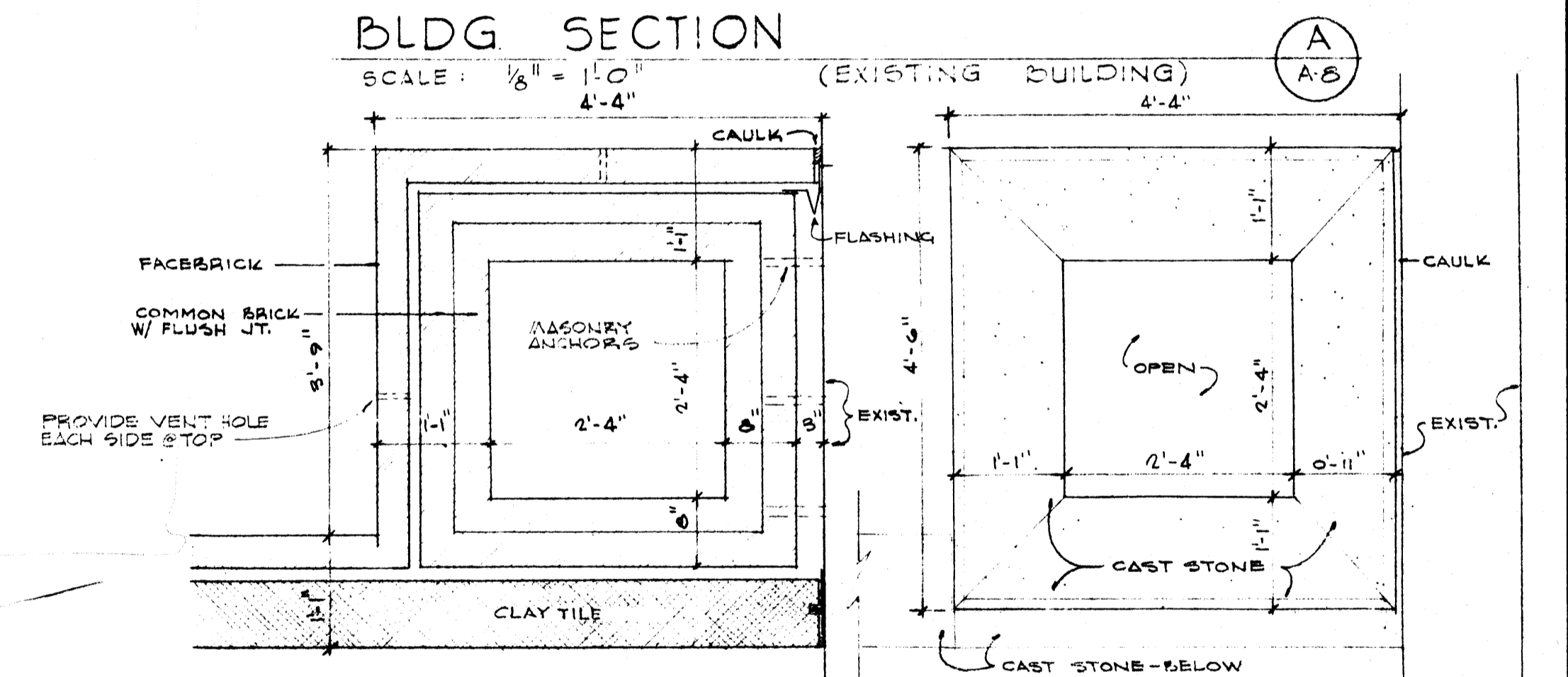


GATE DETAIL
SCALE: 1" = 1'-0"

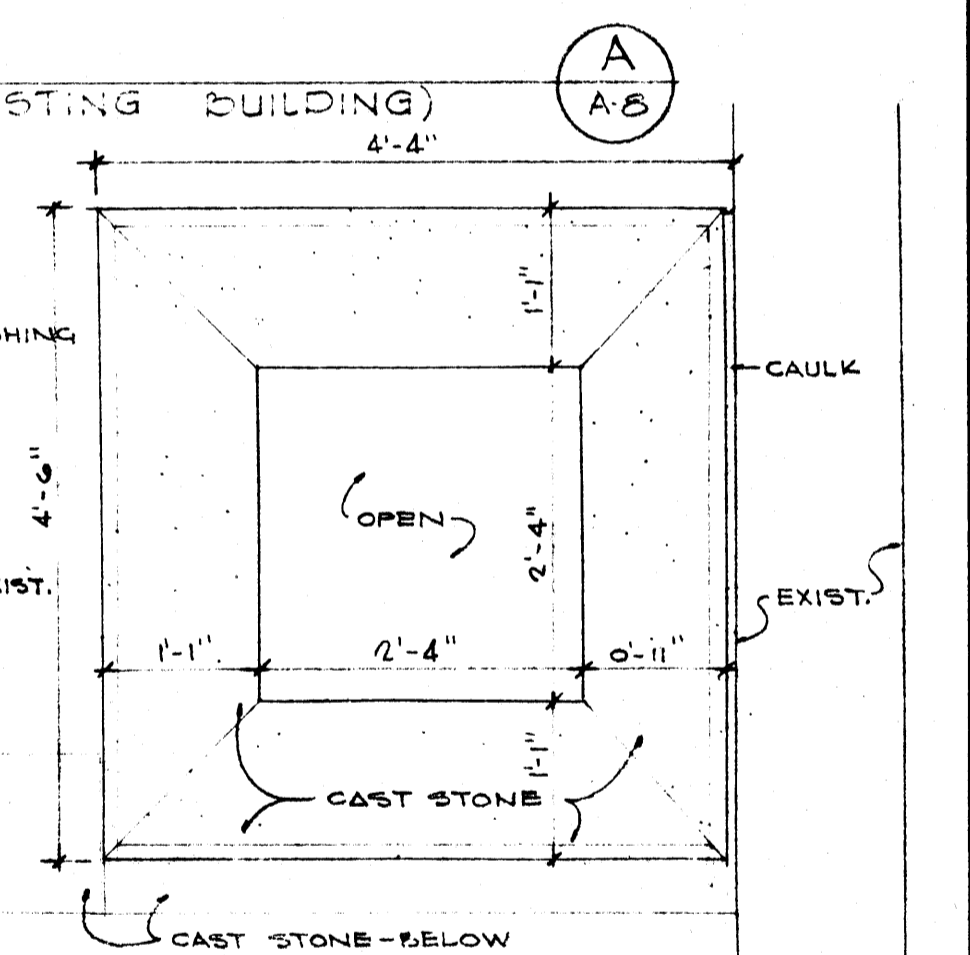


TYPICAL PANEL JAMB
SCALE: 1" = 1'-0"

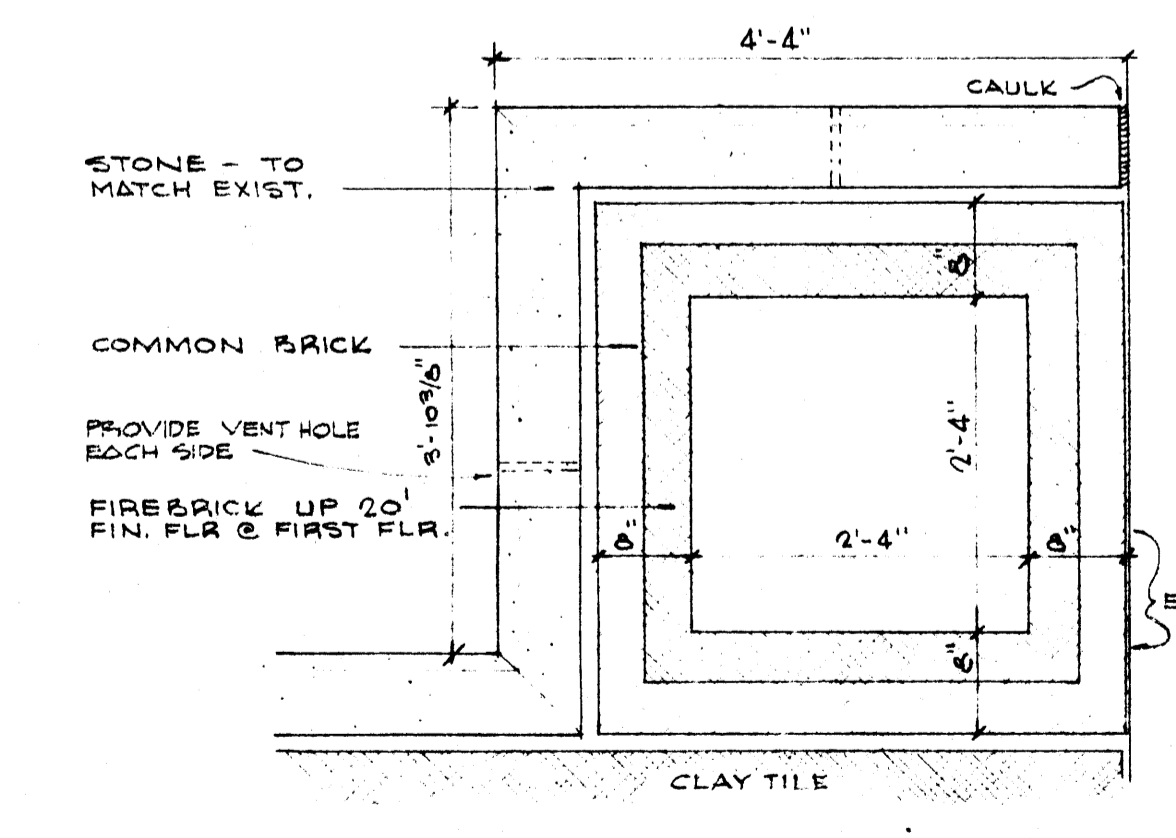
COOLING TOWER ENCLOSURE



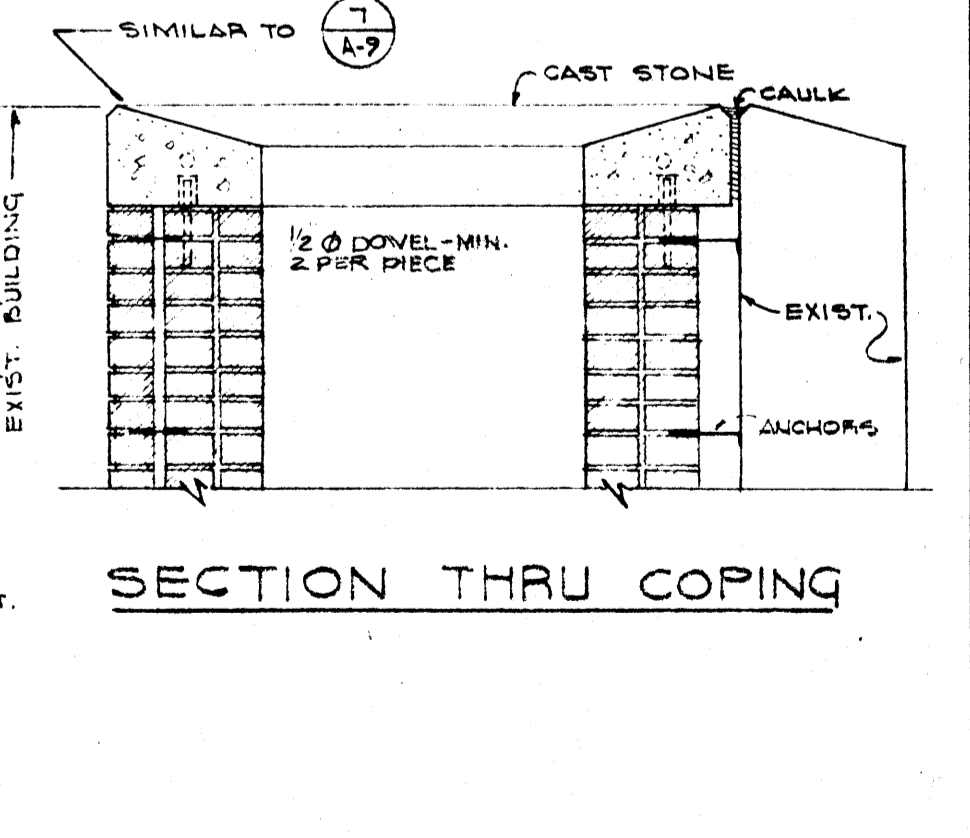
PLAN ABOVE 2ND FLR.
SCALE: 1/8" = 1'-0"



PLAN OF COPING
SCALE: 1/8" = 1'-0"



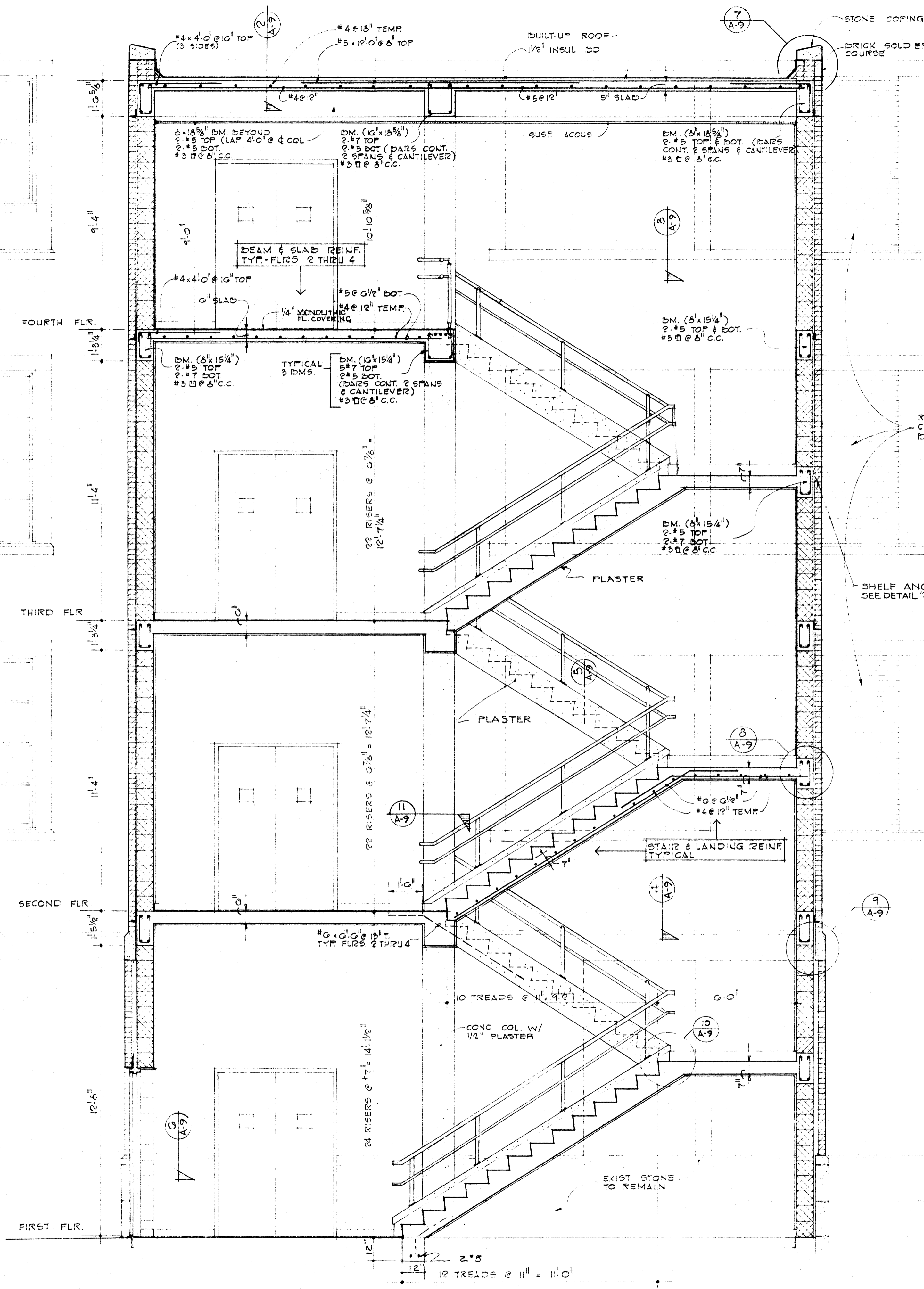
PLAN @ 1ST FLR.
SCALE: 3/4" = 1'-0"



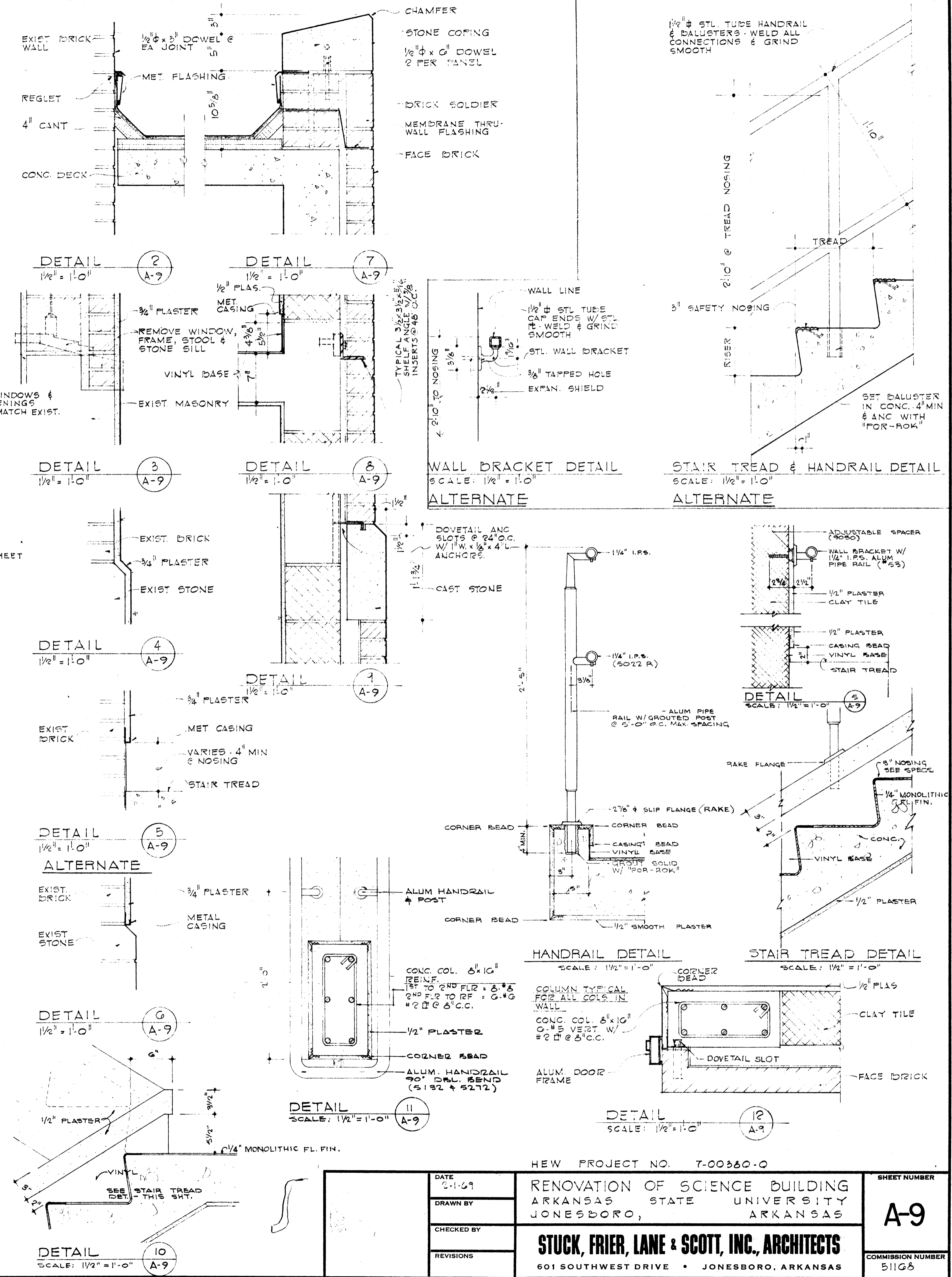
SECTION THRU COPING
SCALE: 3/4" = 1'-0"

BOILER FLUE DETAILS
SCALE: 3/4" = 1'-0"

DATE 2-1-59	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	PROJECT NO. 7-00330-0	SHEET NUMBER A-8
DRAWN BY		COMMISSION NUMBER 5:103	
CHECKED BY			
REVISIONS			

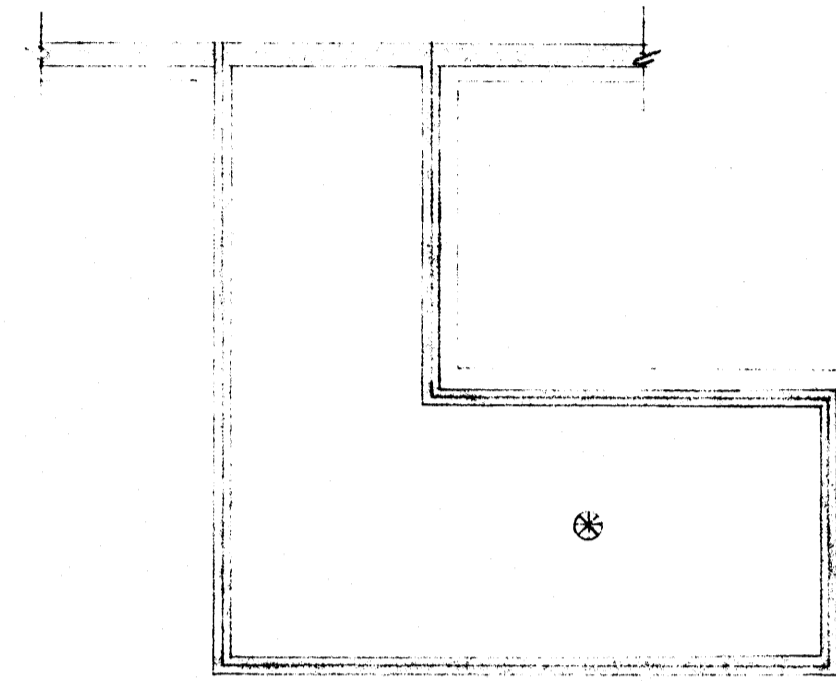


SECTION THRU STAIR
SCALE: 3/8" = 1'-0"

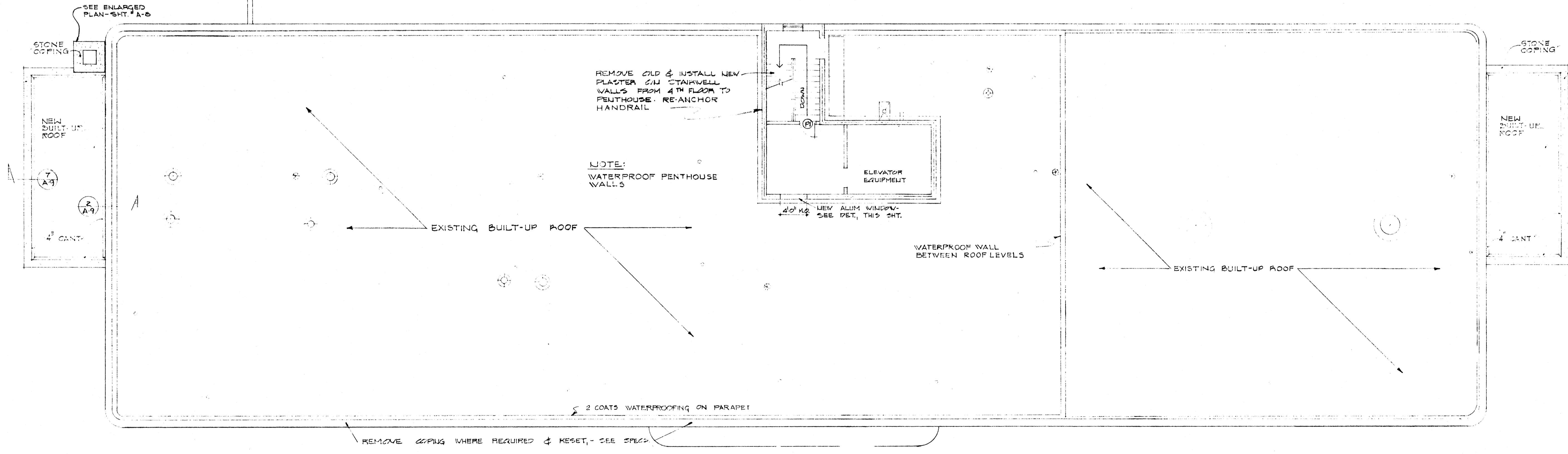
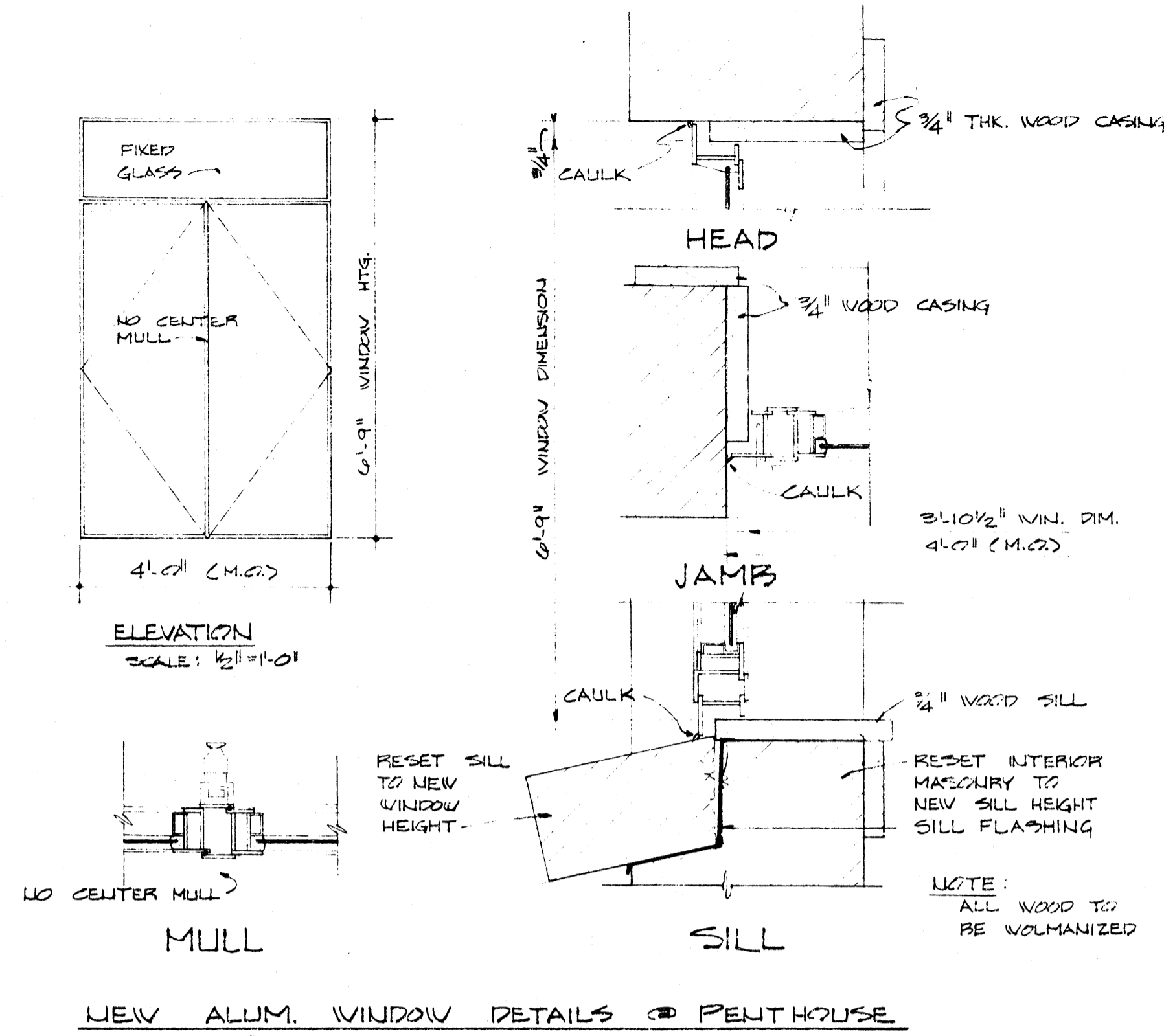
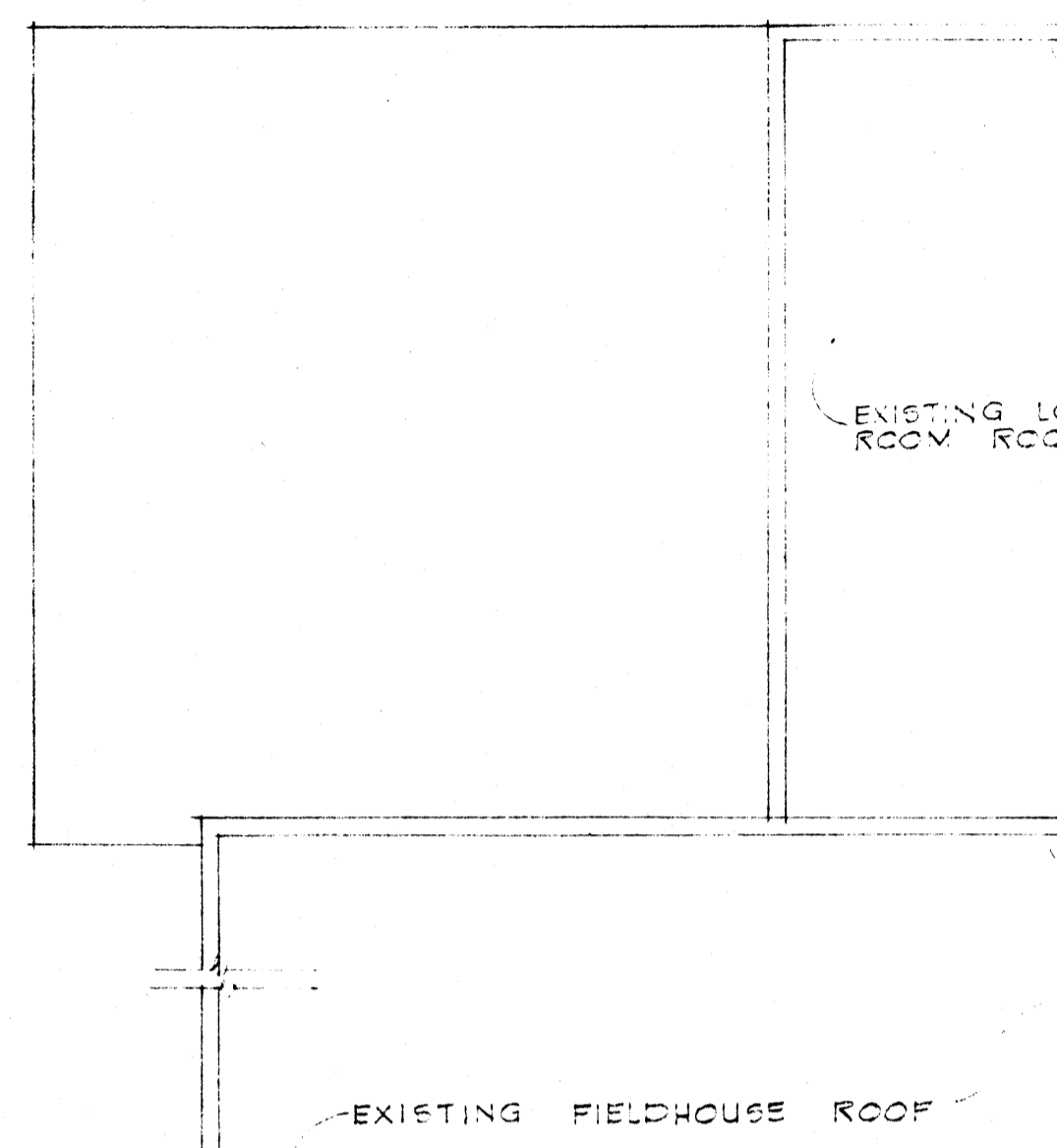


HEW PROJECT NO. T-00360-0

DATE	2-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER
DRAWN BY			A-9
CHECKED BY			
REVISIONS			
STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS		COMMISSION NUMBER	
			51168



ROOF PLAN OF PENTHOUSE
SCALE 1/8" = 1'-0"



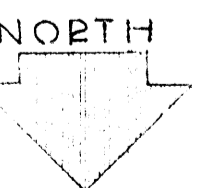
ROOF PLAN

SCALE: 1/8" = 1'-0"

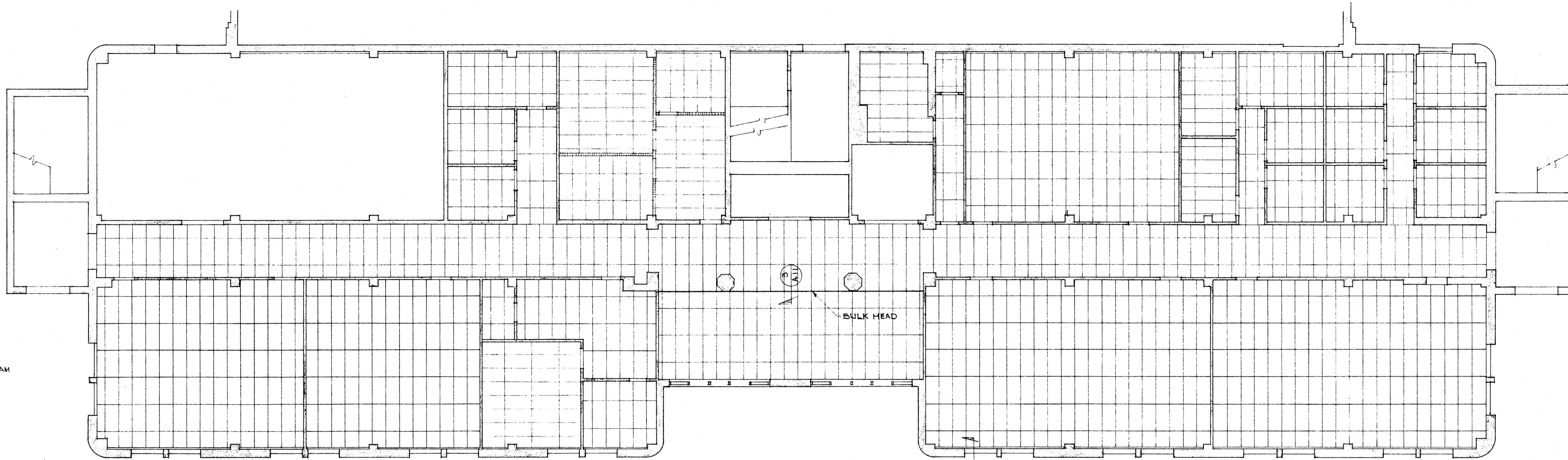
HEW PROJECT NO. 7-00380-0

DATE 2-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS
DRAWN BY	
CHECKED BY	
REVISIONS	

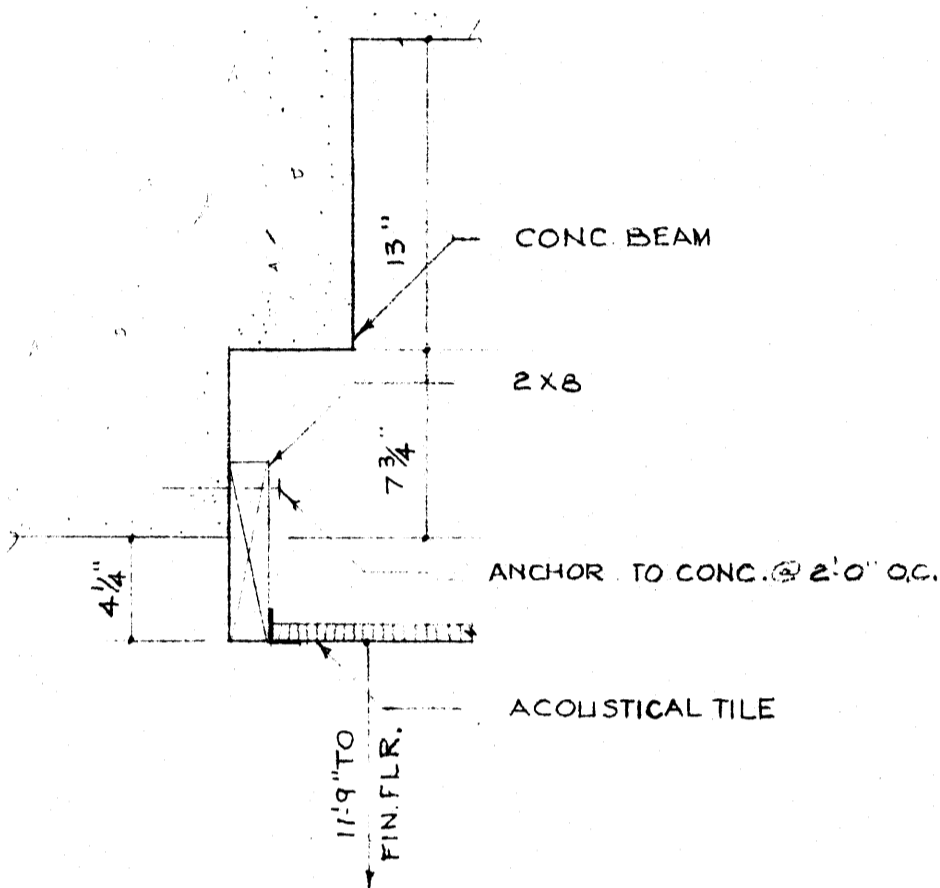
STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
601 SOUTHWEST DRIVE * JONESBORO, ARKANSAS



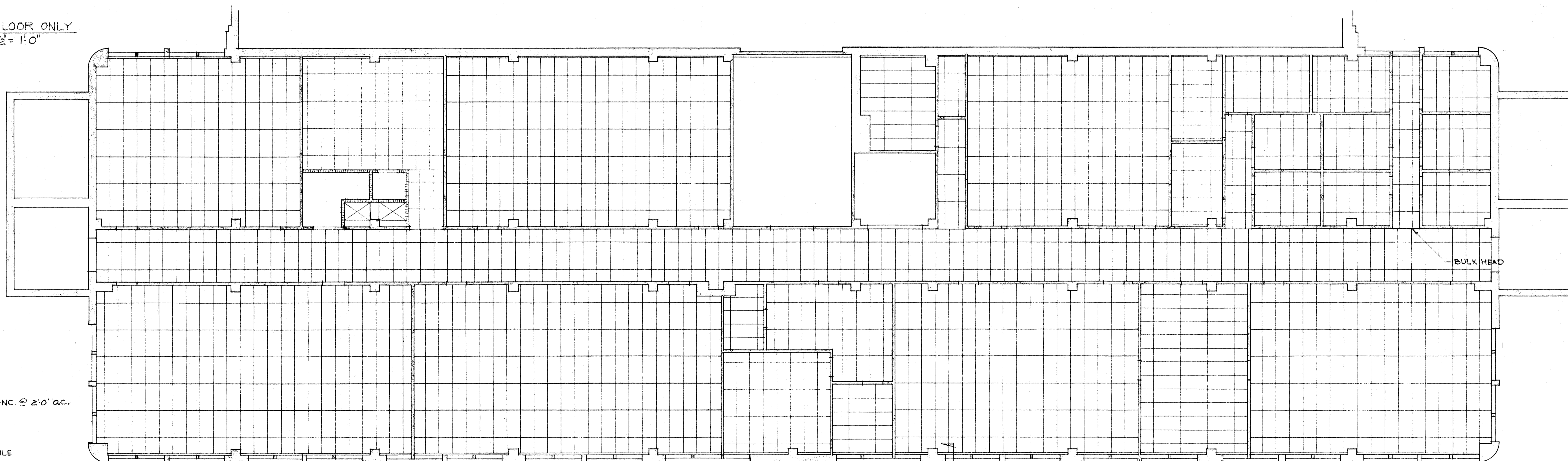
SHEET NUMBER
A-10
COMMISSION NUMBER
51103



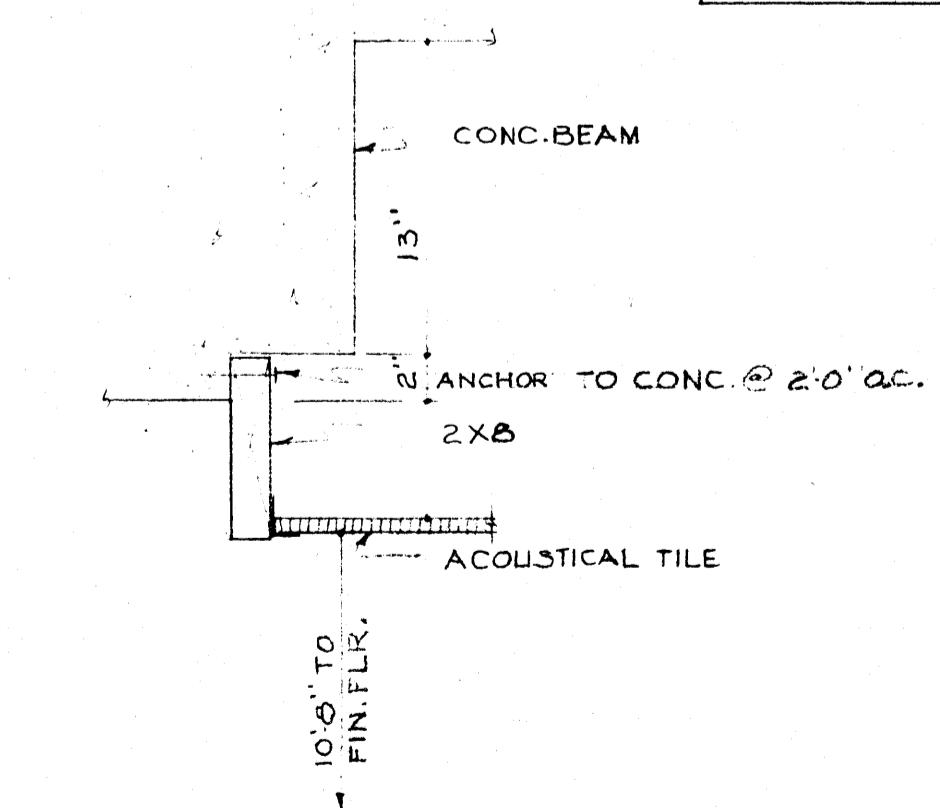
FIRST FLOOR REFLECTED CEILING PLAN



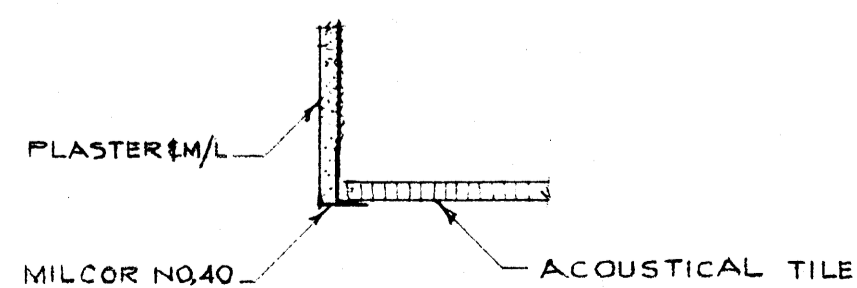
1) DETAIL @ WINDOW FIRST FLOOR ONLY
 1/2" = 1'-0"



SECOND FLOOR REFLECTED CEILING PLAN



2) DETAIL @ WINDOW SECOND-FOURTH FLOORS
 1/2" = 1'-0"



3) BULKHEAD DETAIL
 1/2" = 1'-0"

SCALE: 1/8" = 1'-0"

HEW PROJECT NO. 7-00380-0

DATE	2-1-69
DRAWN BY	
CHECKED BY	
REVISIONS	

RENOVATION OF SCIENCE BUILDING
 ARKANSAS STATE UNIVERSITY
 JONESBORO, ARKANSAS

STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS

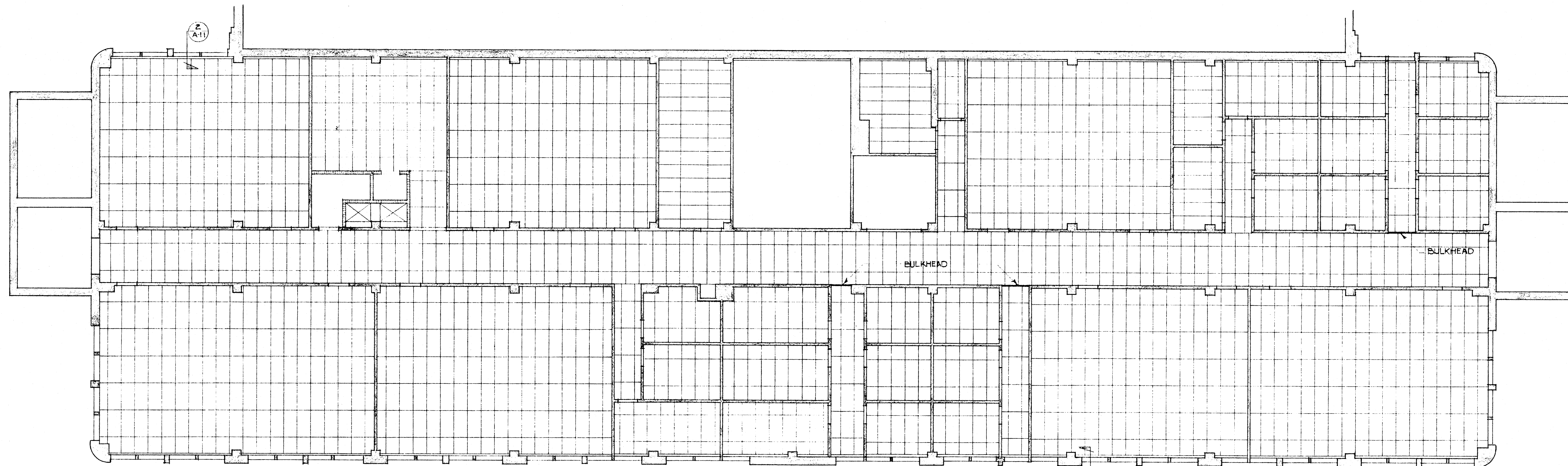


SHEET NUMBER

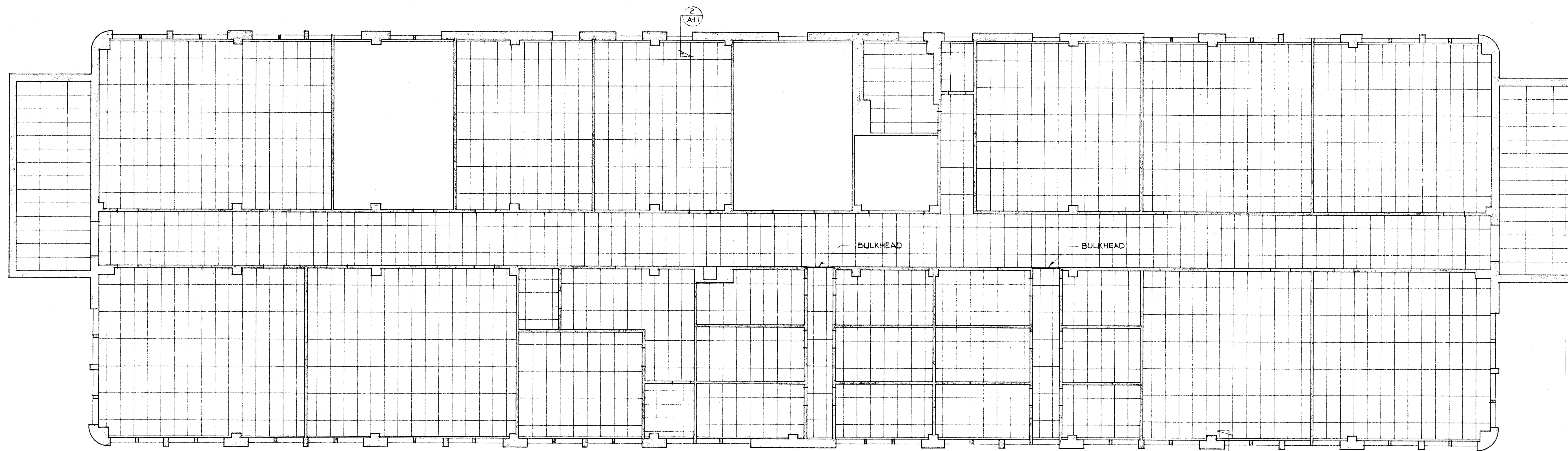
A-11

COMMISSION NUMBER

5116B



THIRD FLOOR REFLECTED CEILING PLAN

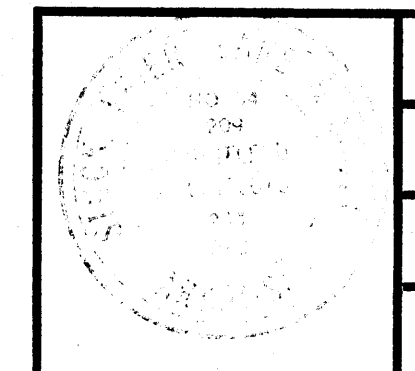


FOURTH FLOOR REFLECTED CEILING PLAN



SCALE: 1/8" = 1'-0"

H.E.W. PROJECT NO. 7-00380-0

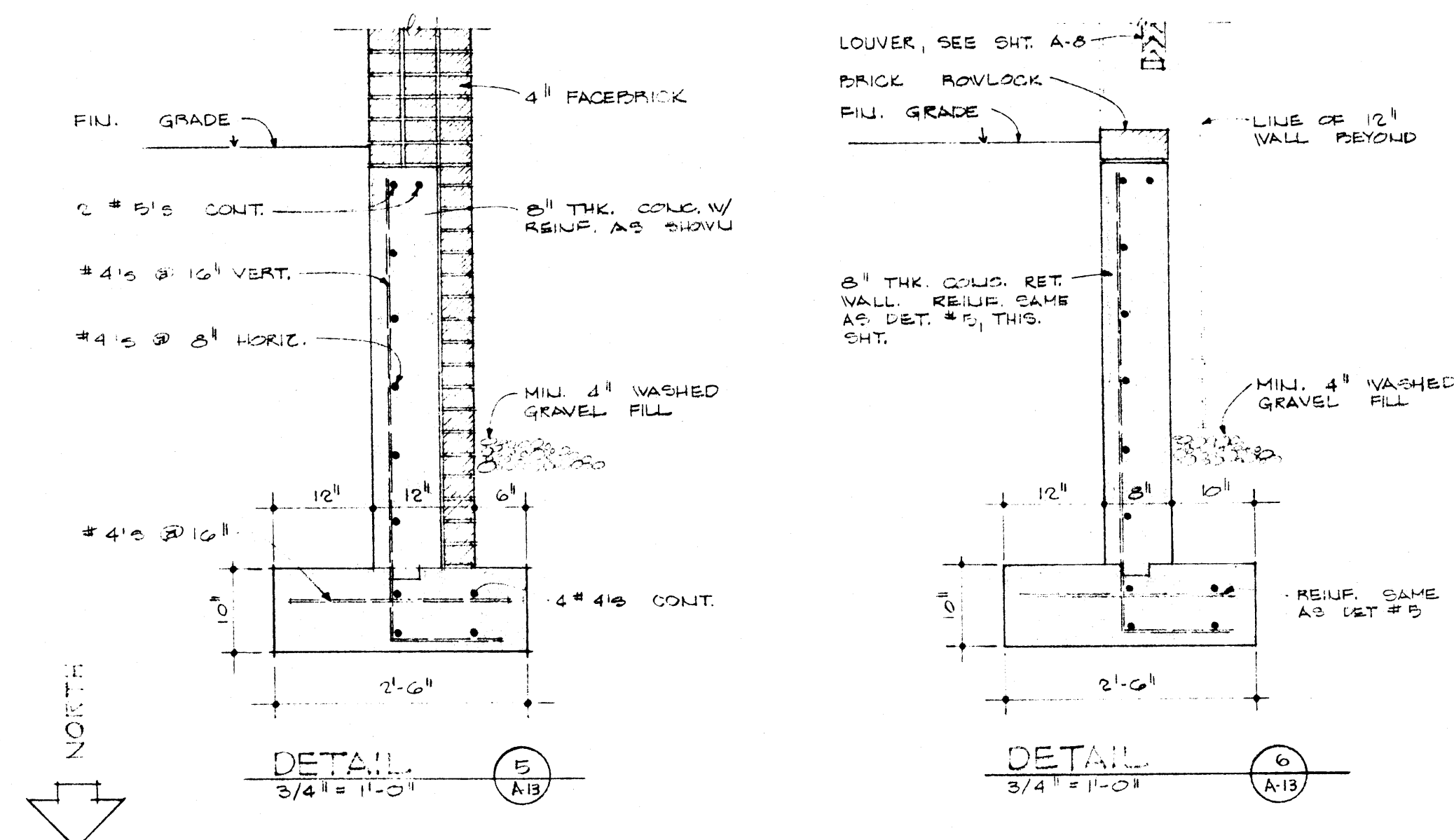
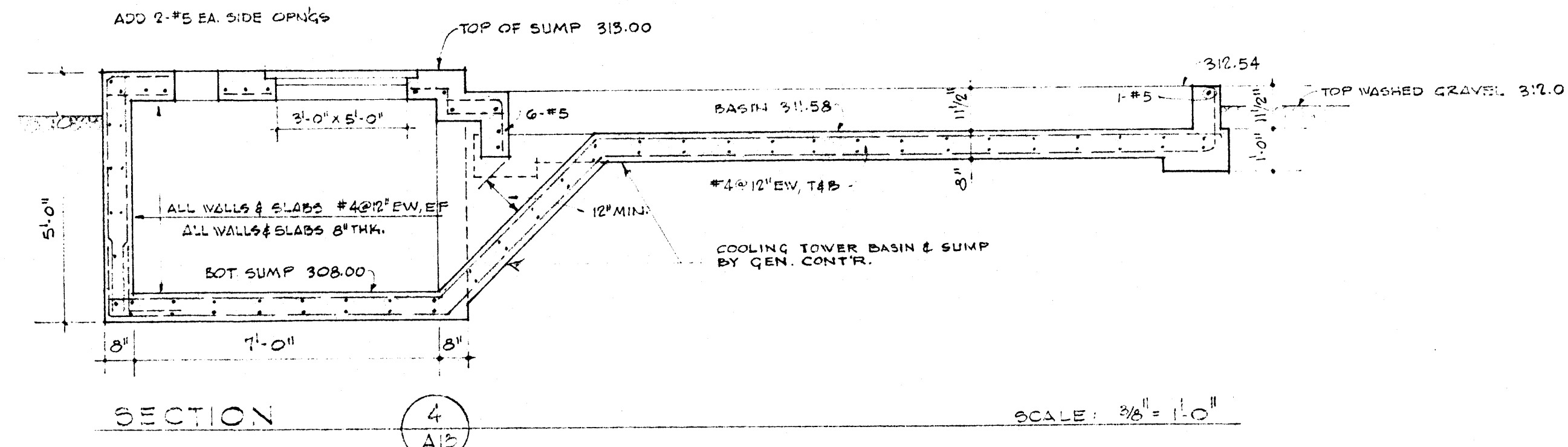
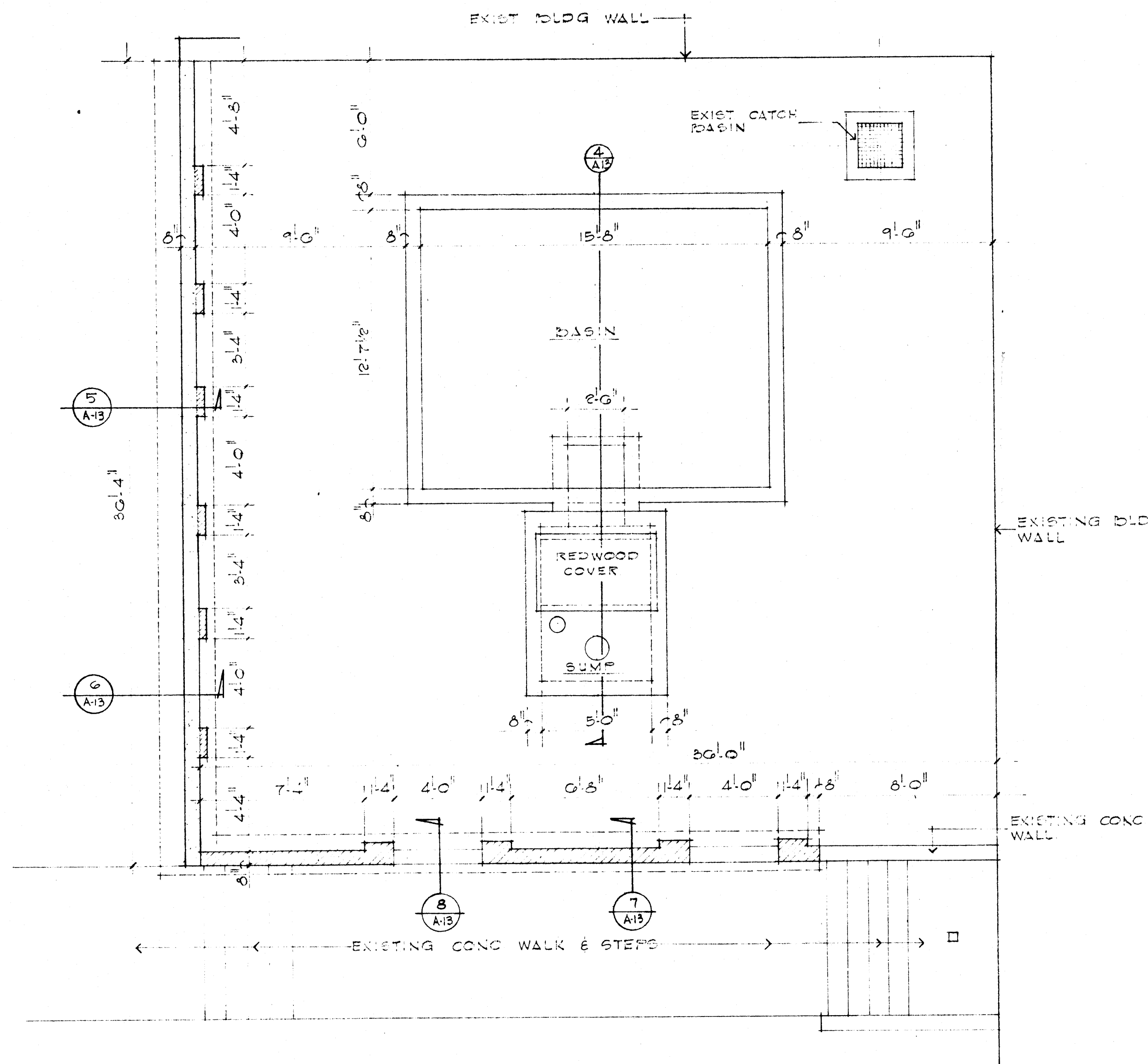
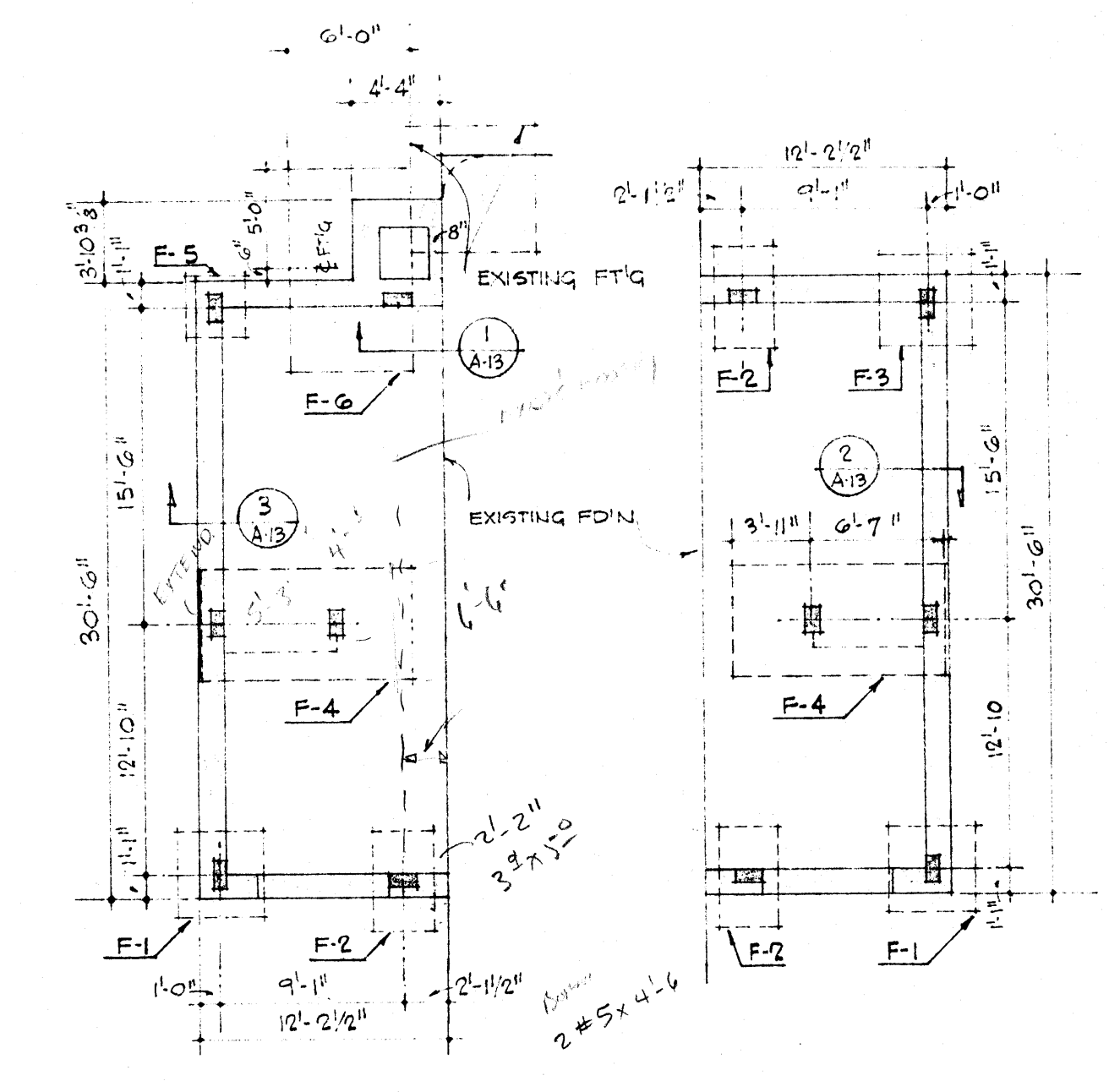
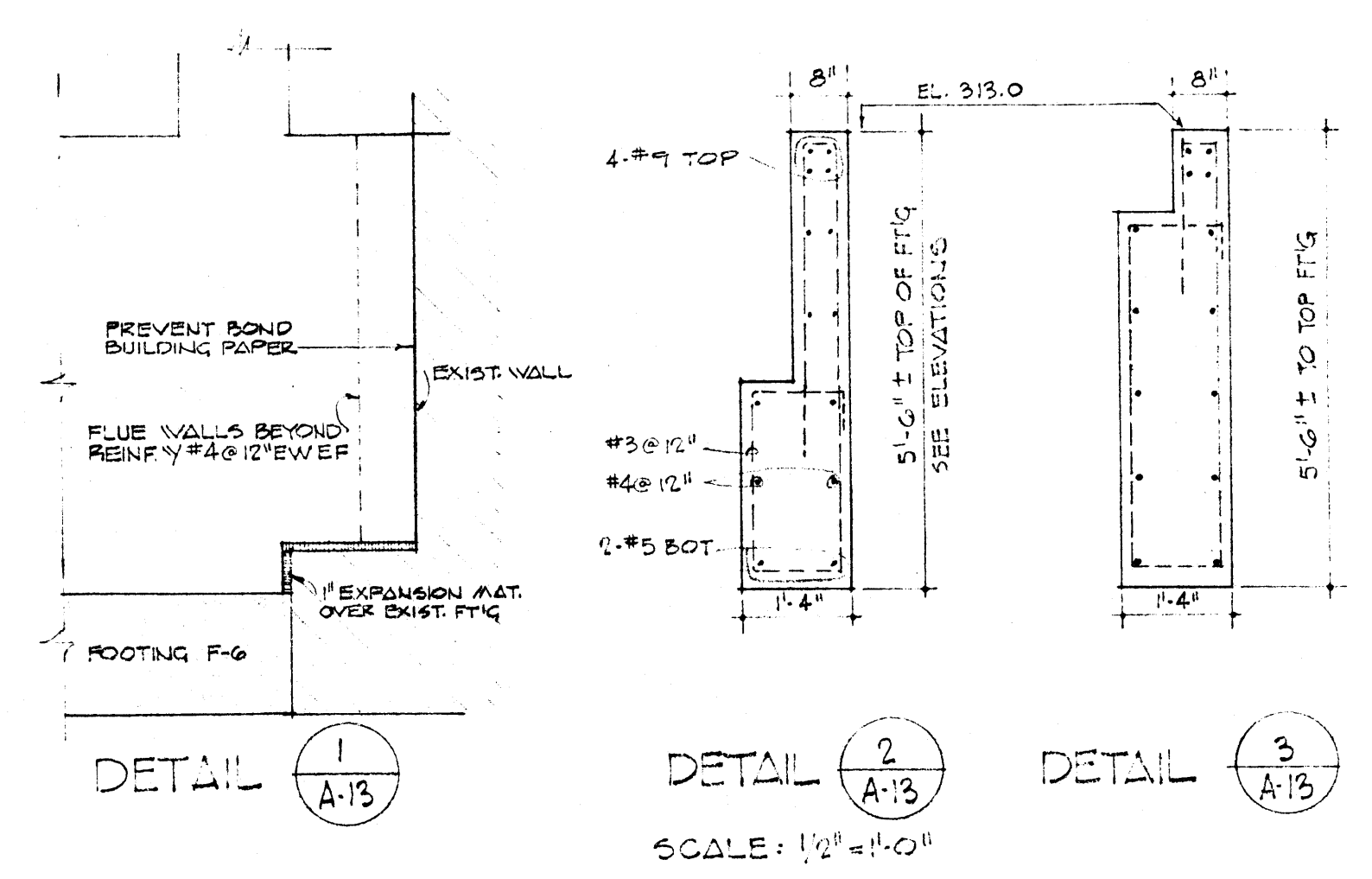
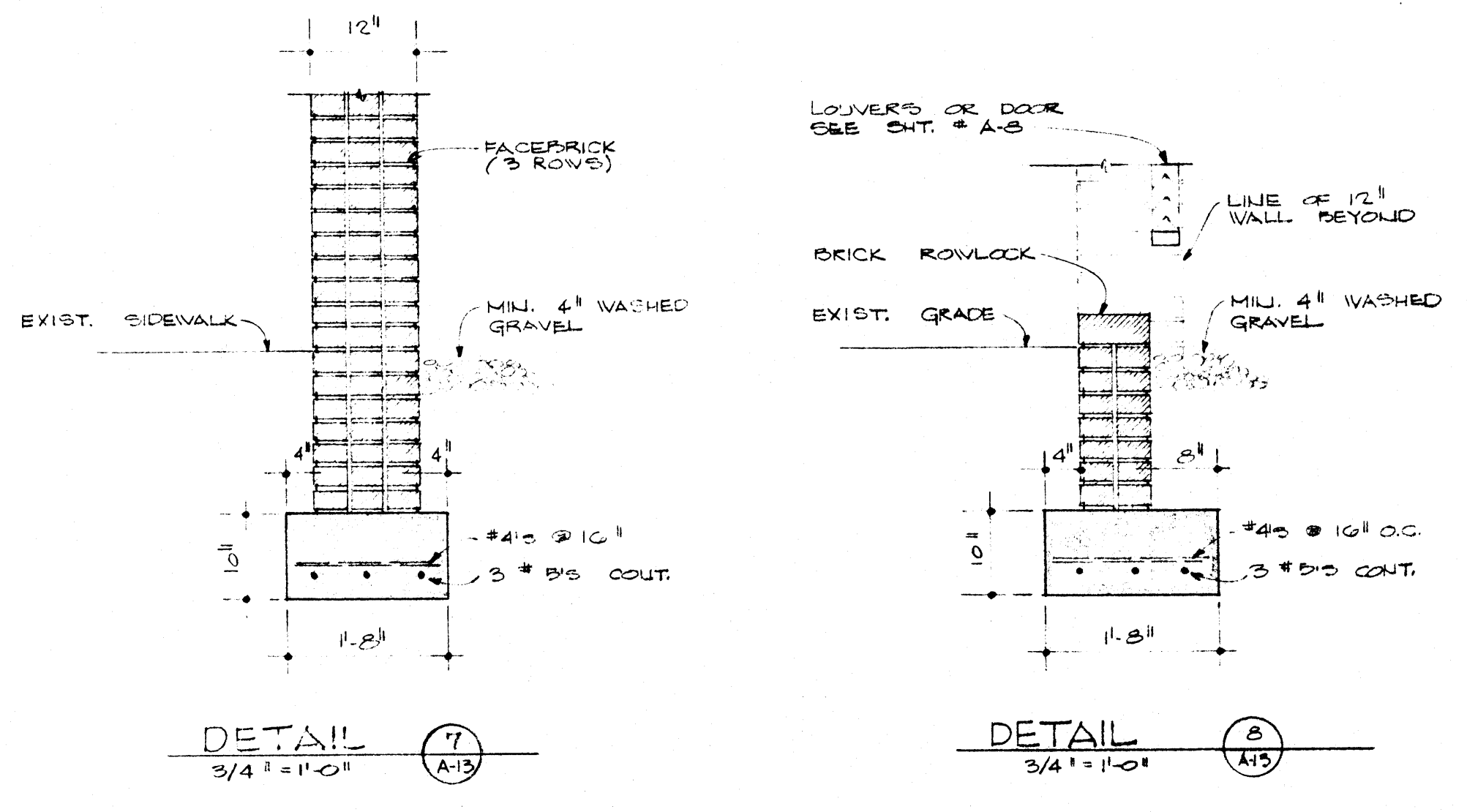


DATE	2-1-69
DRAWN BY	
CHECKED BY	
REVISIONS	

RENOVATION OF SCIENCE BUILDING
 ARKANSAS STATE UNIVERSITY
 JONESBORO, ARKANSAS

STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS

SHEET NUMBER	A-12
COMMISSION NUMBER	51168



COLUMN FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F-1	4'-3" x 11'-0" THK.	9-#4 EW
F-2	3'-0" x 5'-0" x 11'-0" THK.	7-#5 x 4'-6" LW & 8-#4 x 2'-6" SW
F-3	4'-6" x 11'-0" THK.	9-#4 EW
F-4	10'-6" x 5'-6" x 11'-0" THK.	10-#7 x 10'-0" T&B LW & 8-#5 x 5'-0" T&B SW
F-5	3'-0" x 11'-0" THK.	3-#4 x 2'-6" EW
F-6	8'-0" x 10'-0" x 11'-0" THK.	10-#8 x 5'-6" SW & 7-#8 x 9'-6" LW

FOUNDATION PLAN - COOLING TOWER ENCLOSURE, BASIN & SUMP
SCALE: 1/8" = 1'-0"
VERIFY ALL COOLING TOWER DIMENSIONS & OPNGS W/ MANUFACTURER

NEW PROJECT NO 7-00330-0

DATE 2-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER A-13
DRAWN BY		COMMISSION NUMBER 51108
CHECKED BY	STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	
REVISIONS		

7-#5 x 4'-6" LW
10-#4 x 2'-6" SW
NEW LOUVERS

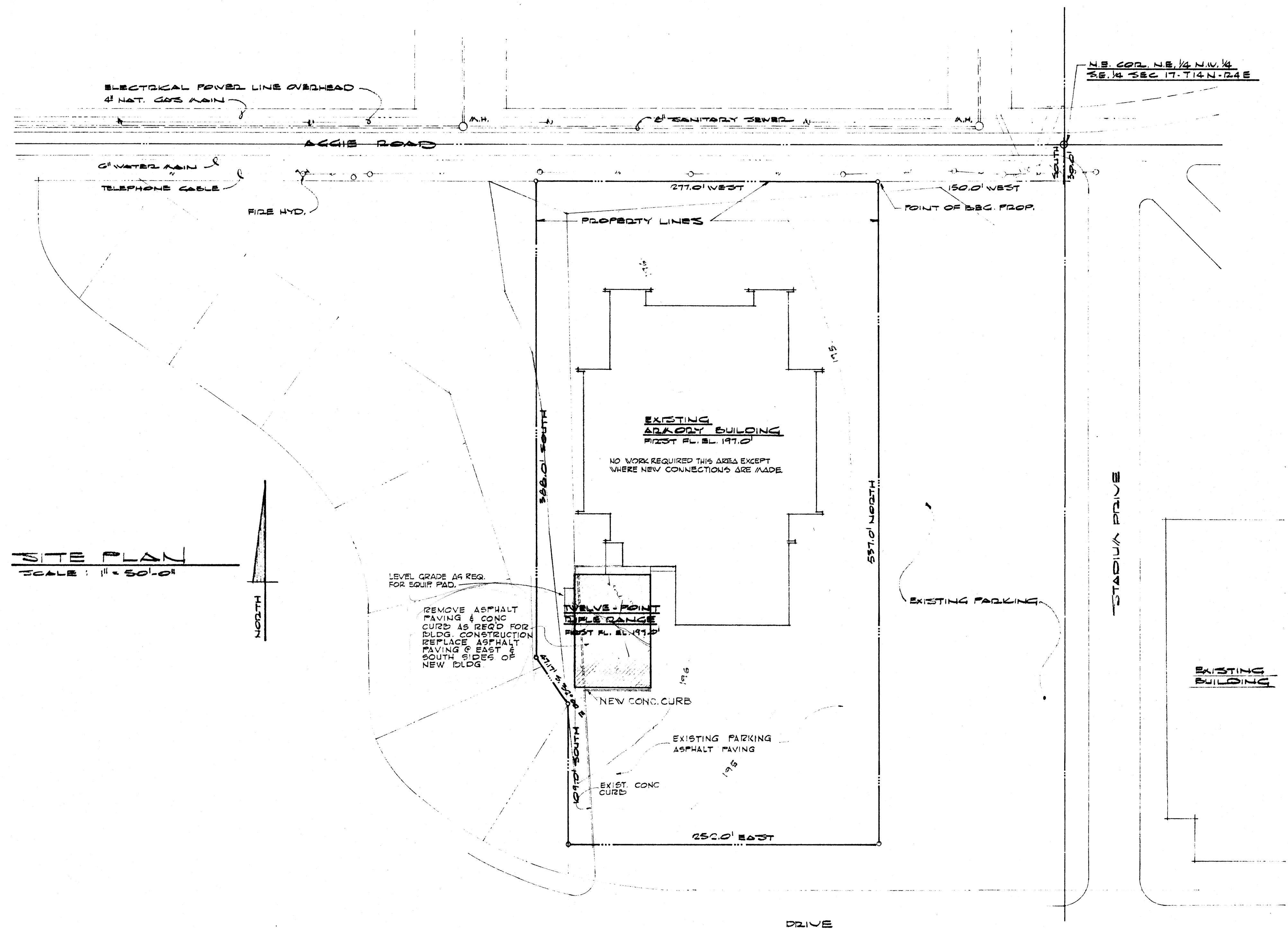
4-#5 x 4'-6" LW
8-#4 x 2'-6" SW

7'-0" x 11'-0" THK.

3'-0" x 11'-0" THK.

10'-6" x 5'-6" x 11'-0" THK.

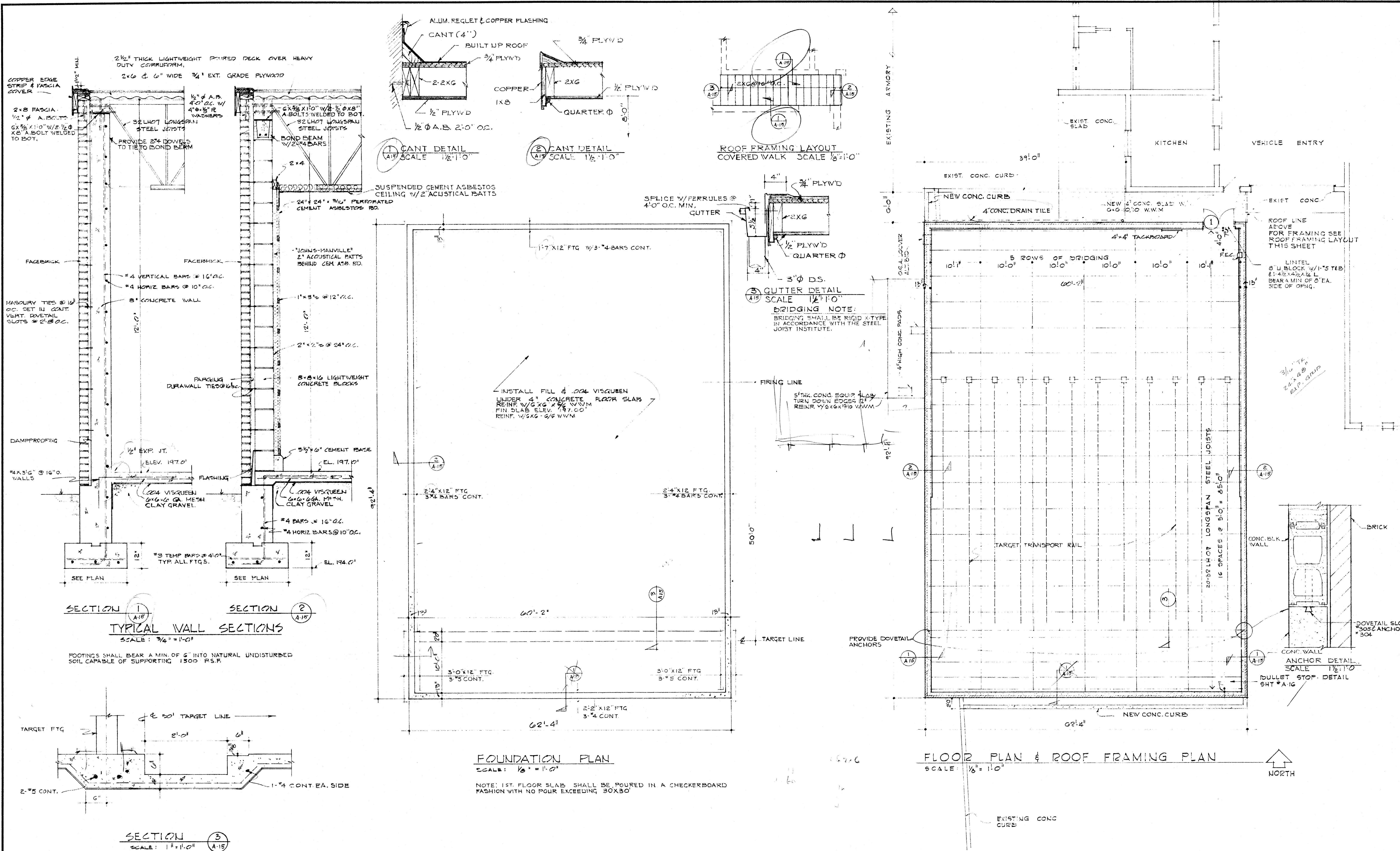
8'-0" x 10'-0" x 11'-0" THK.



SITE PLAN
SCALE: 1/4" = 50.0'

HEW PROJECT NO. 700380-0

DATE 2-1-79	12 POINT RIFLE RANGE ARKANSAS STATE UNIVERSITY	SHEET NUMBER A-14
DRAWN BY	JONESBORO ARKANSAS	COMMISSION NUMBER 51168
CHECKED BY	STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS	
REVISIONS	601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	



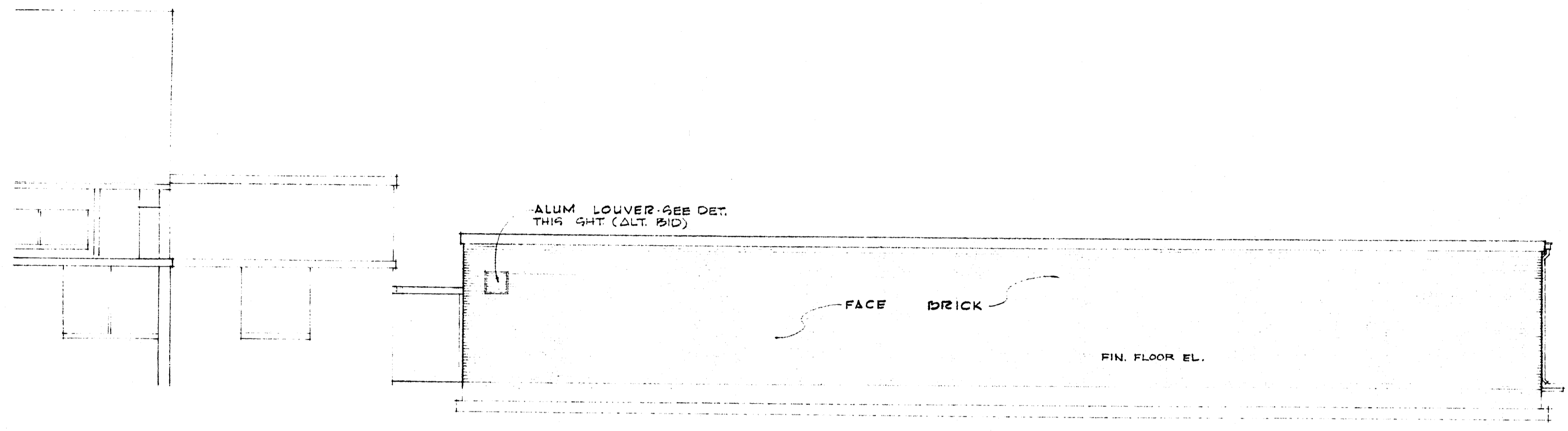
DOOR REFERENCE SCHEDULE

OPL'G MARK	DOOR		FRAME		H.W. GROUP	GRILLE SIZE	REMARKS
	TYPE	LABEL	TYPE	ELEV. MAT'L			
1	2-G		F-3	E-7	H.M.	G	

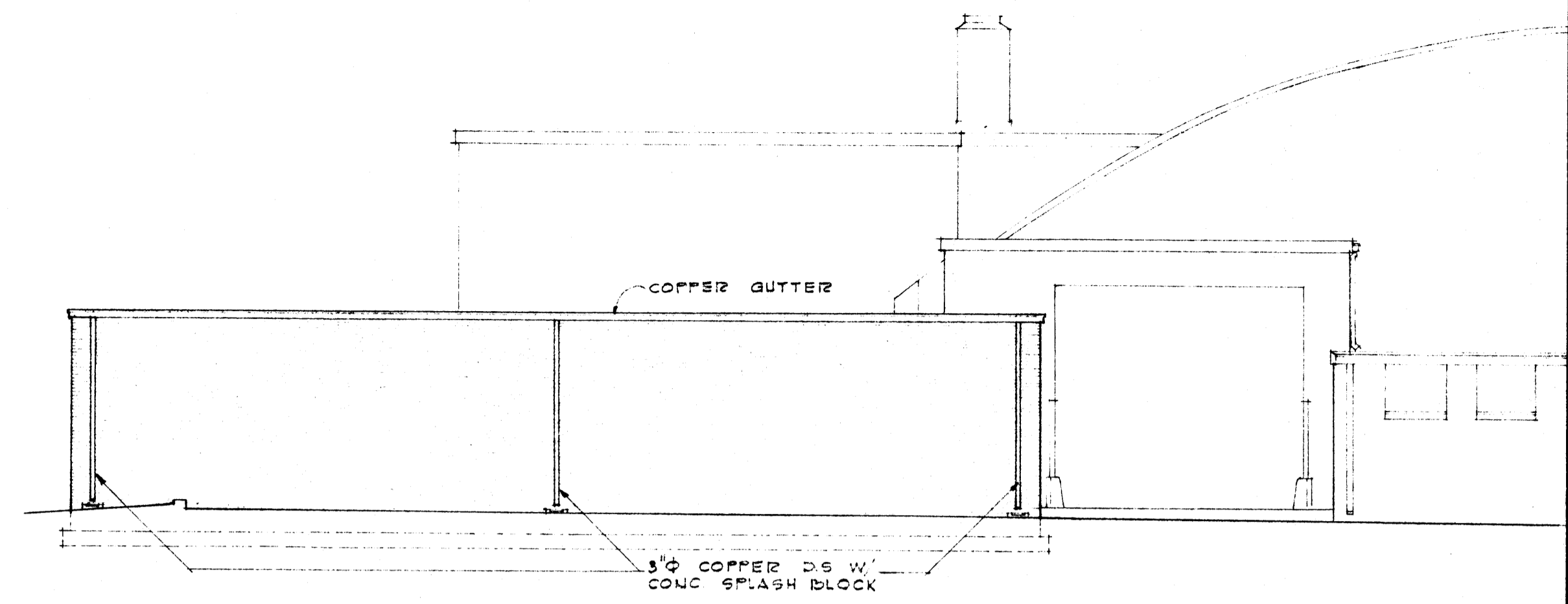
NEW PROJECT NO. 7-00380-0

DATE 2-1-69	12 POINT RIFLE RANGE ARKANSAS STATE UNIVERSITY JONESBORO ARKANSAS	COMMISSION NUMBER 51103
DRAWN BY		STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS
CHECKED BY TSF		
REVISIONS		

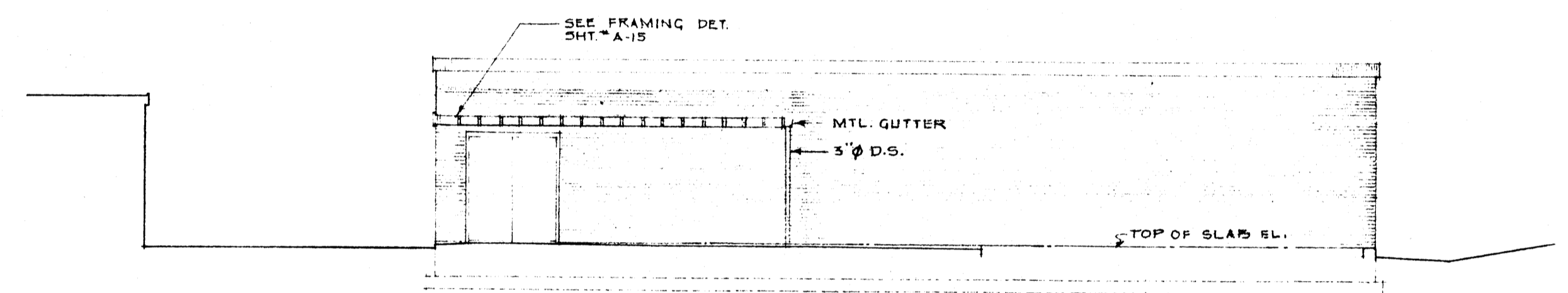
A-15



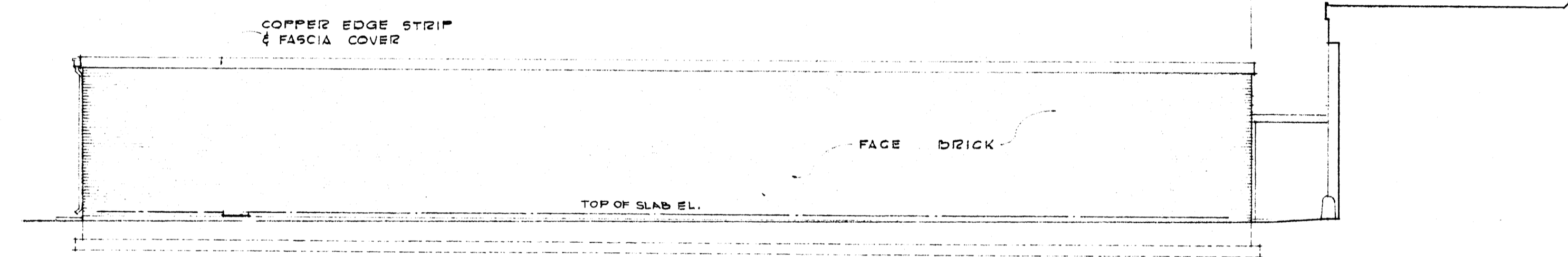
WEST ELEVATION



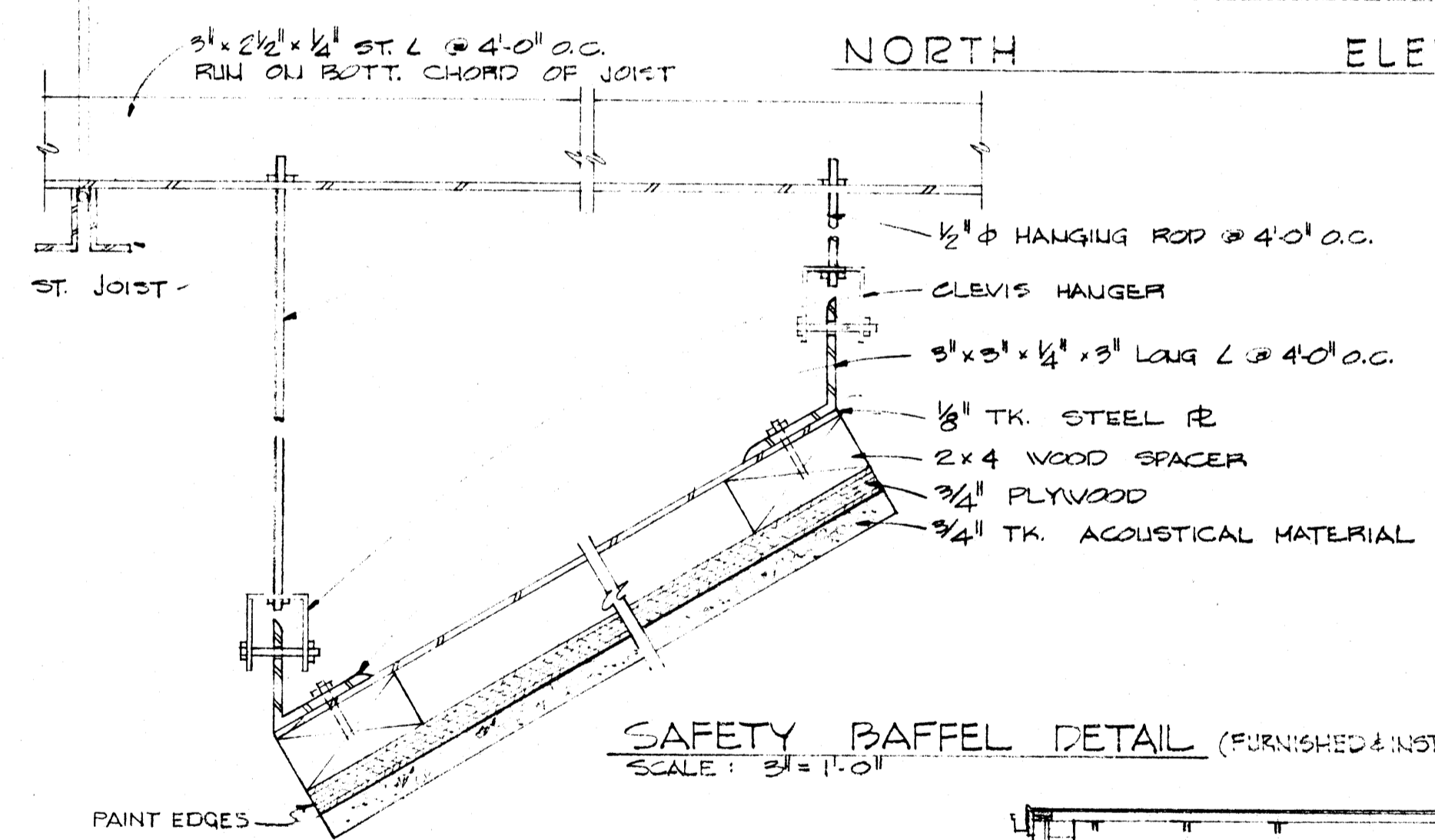
SOUTH ELEVATION
SCALE ALL ELEVATIONS: 1/8" = 1'-0"



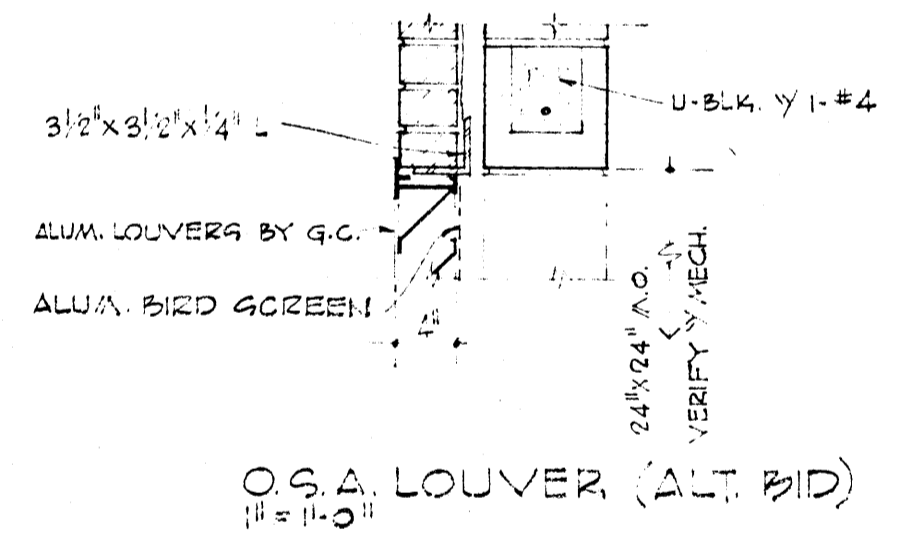
NORTH ELEVATION



EAST ELEVATION

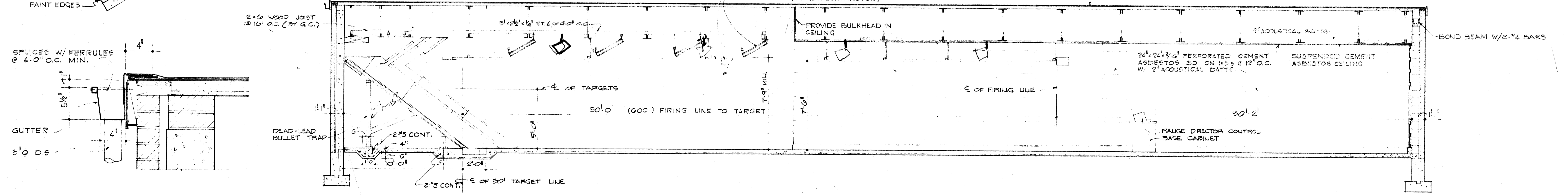


SAFETY BAFEL DETAIL (FURNISHED & INSTALLED BY GEN. CONTRACTOR)
SCALE: 3/4" = 1'-0"

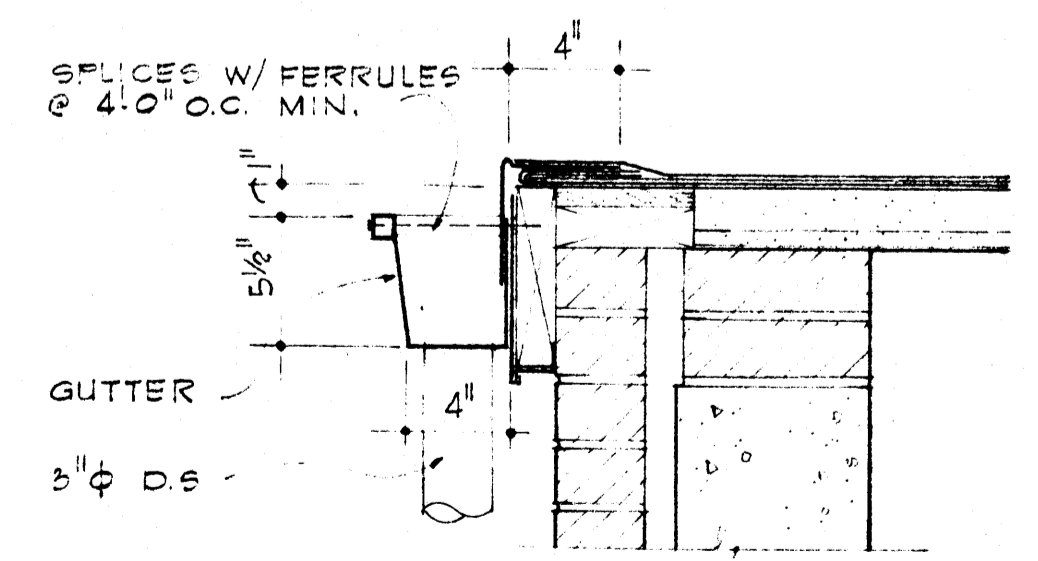


O.S.A. LOUVER (ALT. BID)
1/4" = 1'-0"

CHECK EACH DRAWING FOR LOUVERS ETC. DET. EXT. WALL LOUVERS IF APPLICABLE.

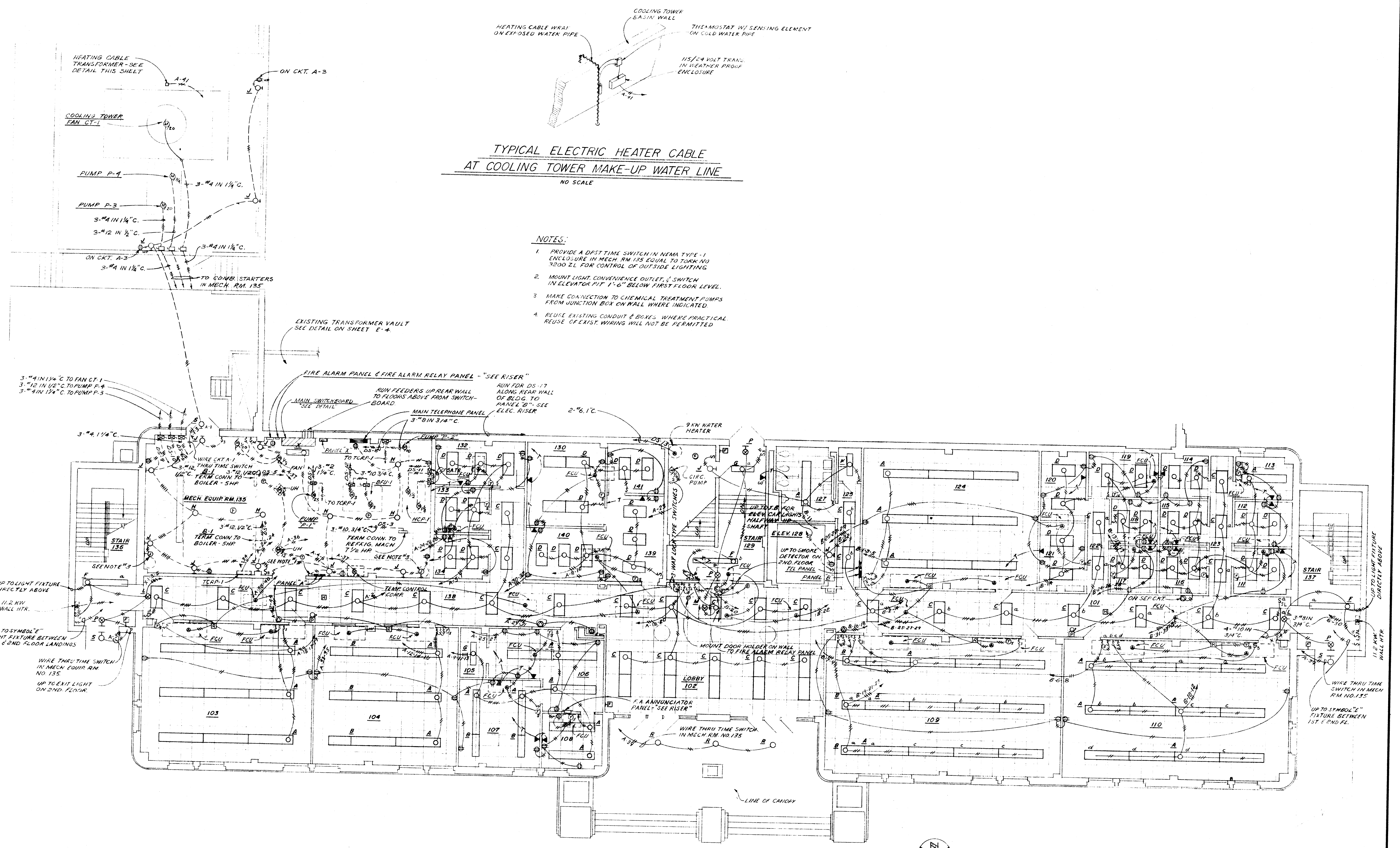


BUILDING SECTION
SCALE: 1/4" = 1'-0"



GUTTER DETAIL
SCALE: 1/2" = 1'-0"

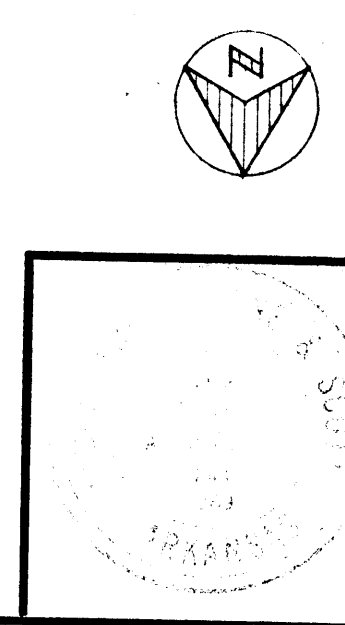
	HEW PROJECT NO. 7-00380-0	DATE 2-1-69	12 POINT RIFLE RANGE ARKANSAS STATE UNIVERSITY JONESBORO ARKANSAS	SHEET NUMBER A-16
		DRAWN BY		
		CHECKED BY	STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS	COMMISSION NUMBER 51128
		REVISIONS	601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	



TYPICAL ELECTRIC HEATER CABLE AT COOLING TOWER MAKE-UP WATER LINE
NO SCALE

- NOTES:**
1. PROVIDE A DFST TIME SWITCH IN NEMA TYPE-1 ENCLOSURE IN MECH. RM 135 EQUAL TO TORQ NO 3200 ZL FOR CONTROL OF OUTSIDE LIGHTING
 2. MOUNT LIGHT, CONVENIENCE OUTLET, & SWITCH IN ELEVATOR PIT 1'-6" BELOW FIRST FLOOR LEVEL.
 3. MAKE CONNECTION TO CHEMICAL TREATMENT PUMPS FROM JUNCTION BOX ON WALL WHERE INDICATED.
 4. REUSE EXISTING CONDUIT & BOXES WHERE PRACTICAL. REUSE OF EXIST. WIRING WILL NOT BE PERMITTED.

FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"



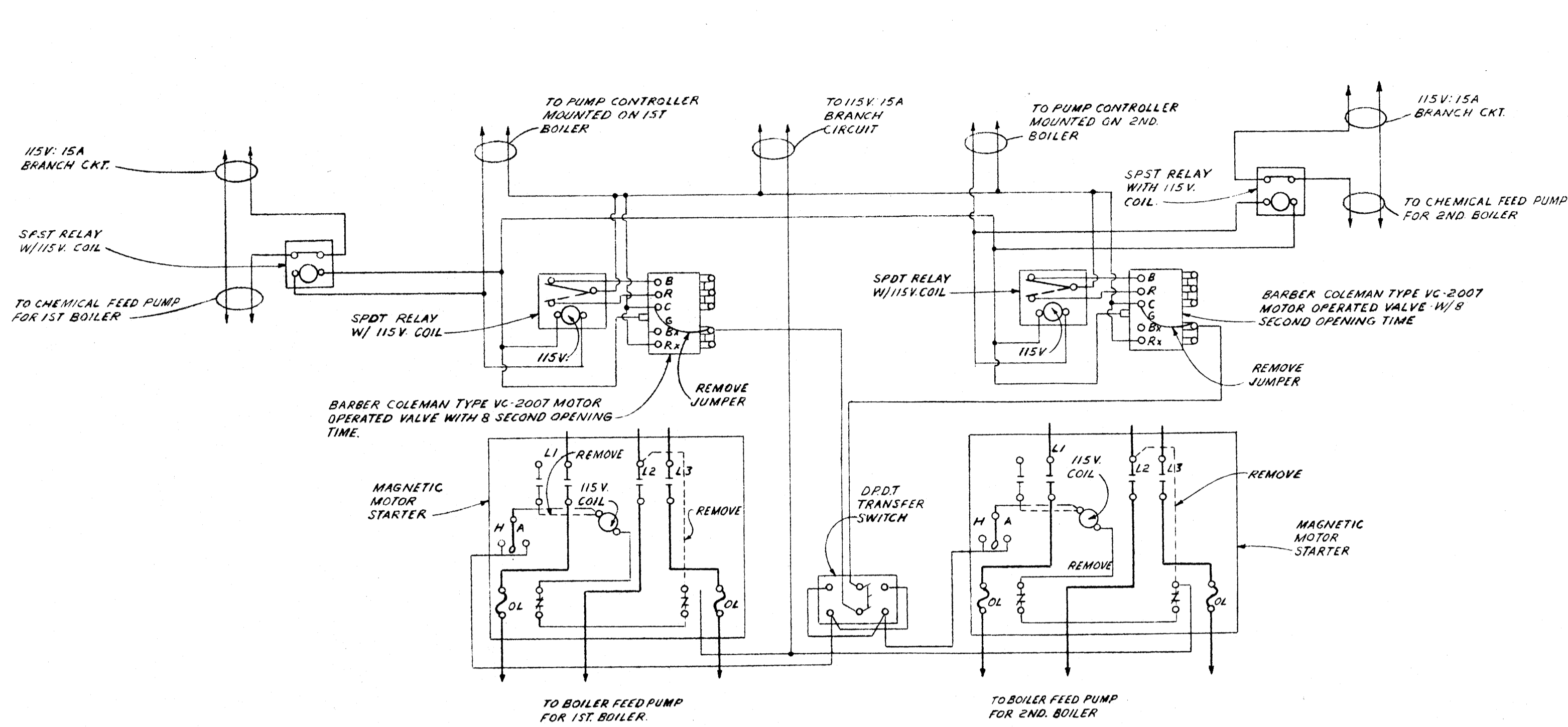
DATE	2-1-69
DRAWN BY	
CHECKED BY	
REVISIONS	

H.E.W. PROJECT NO. 7-00380-0

RENOVATION OF SCIENCE BUILDING
ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

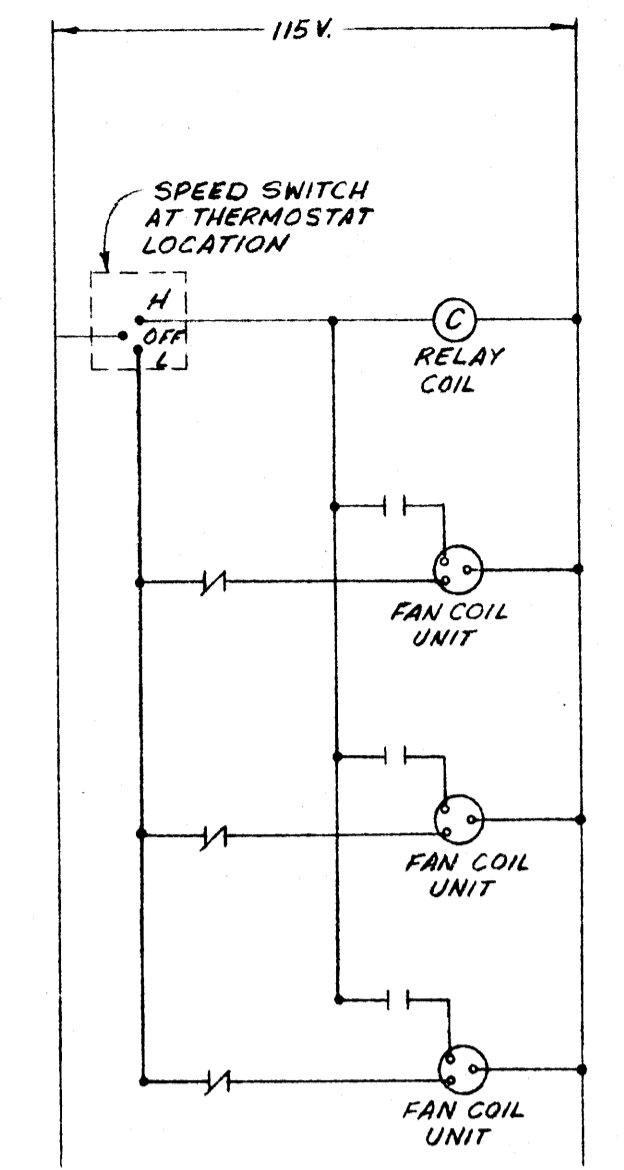
STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS

SHEET NUMBER
E-1
COMMISSION NUMBER
51163



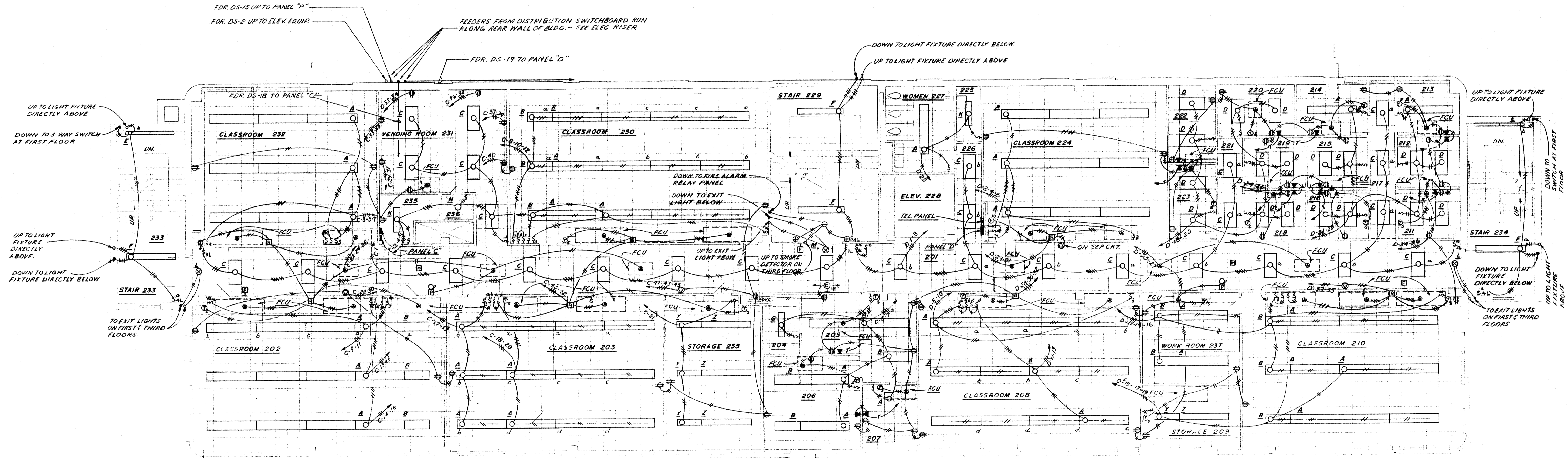
WIRING FOR BOILER FEED WATER PUMPS

NO SCALE



ELEMENTARY WIRING DIAGRAM FOR MULTIPLE FAN COIL UNITS ON ONE THERMOSTAT CONTROL

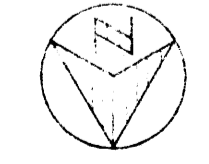
NO SCALE



SECOND FLOOR PLAN

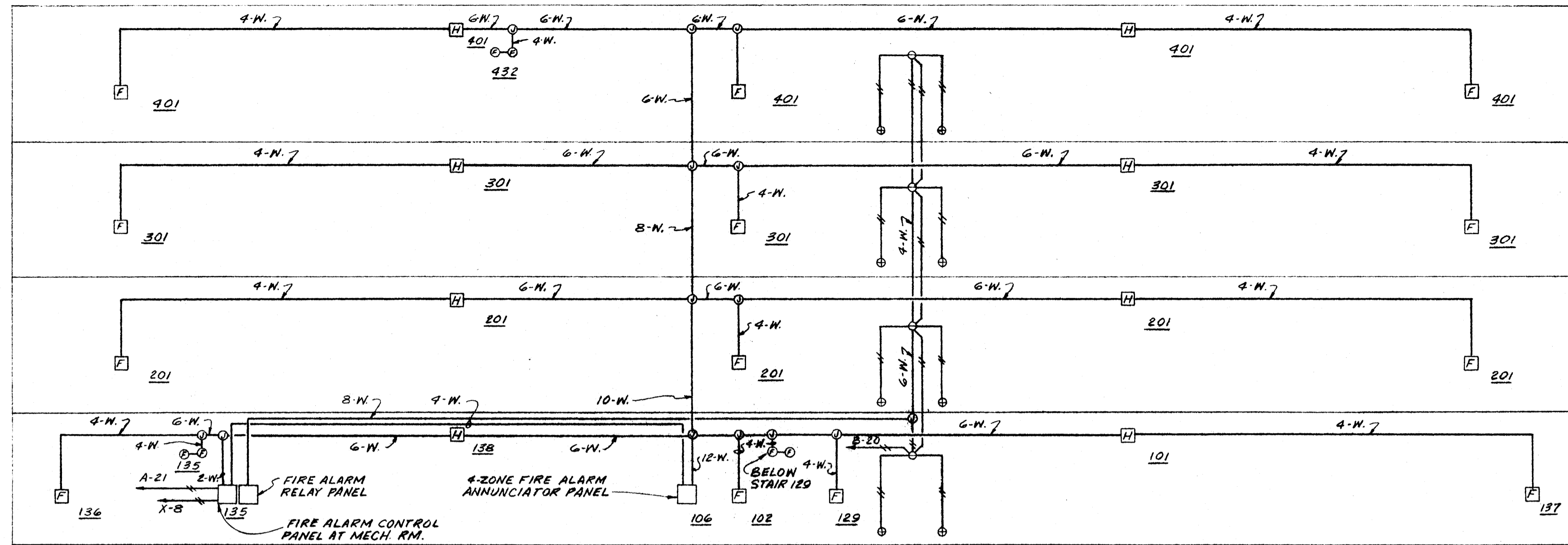
SCALE: 1/8"=1'-0"

WILLIAM B. THOMPSON
CONSULTING ENGINEERS
8002 POPPERS AVE., MEMPHIS, TENN.



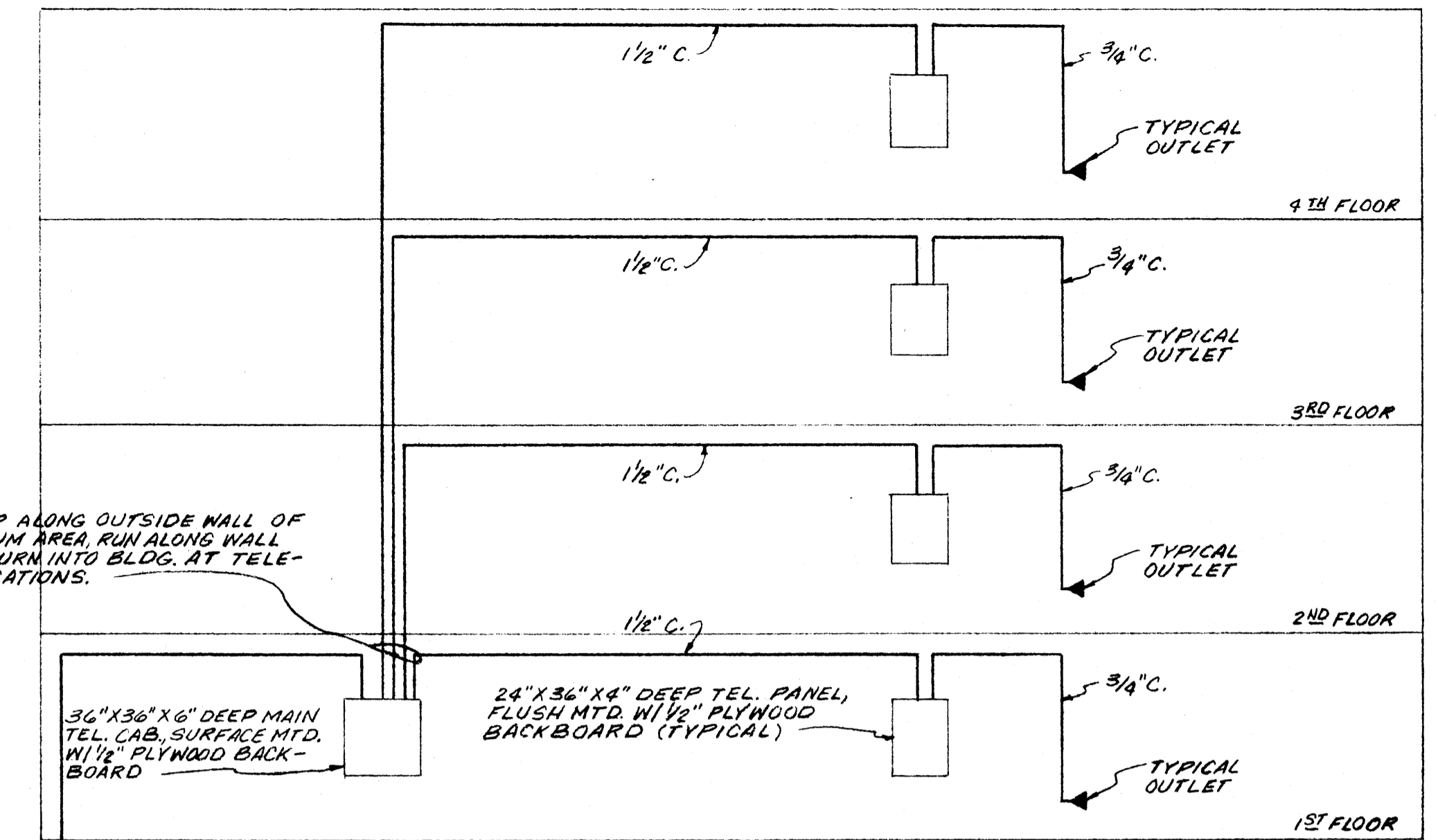
H.E.W. PROJECT NO. 7-00380-0

DATE 2-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER E-2
DRAWN BY		COMMISSION NUMBER 31168
CHECKED BY	STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	
REVISIONS		



FIRE ALARM SYSTEM RISER DIAGRAM

NO SCALE



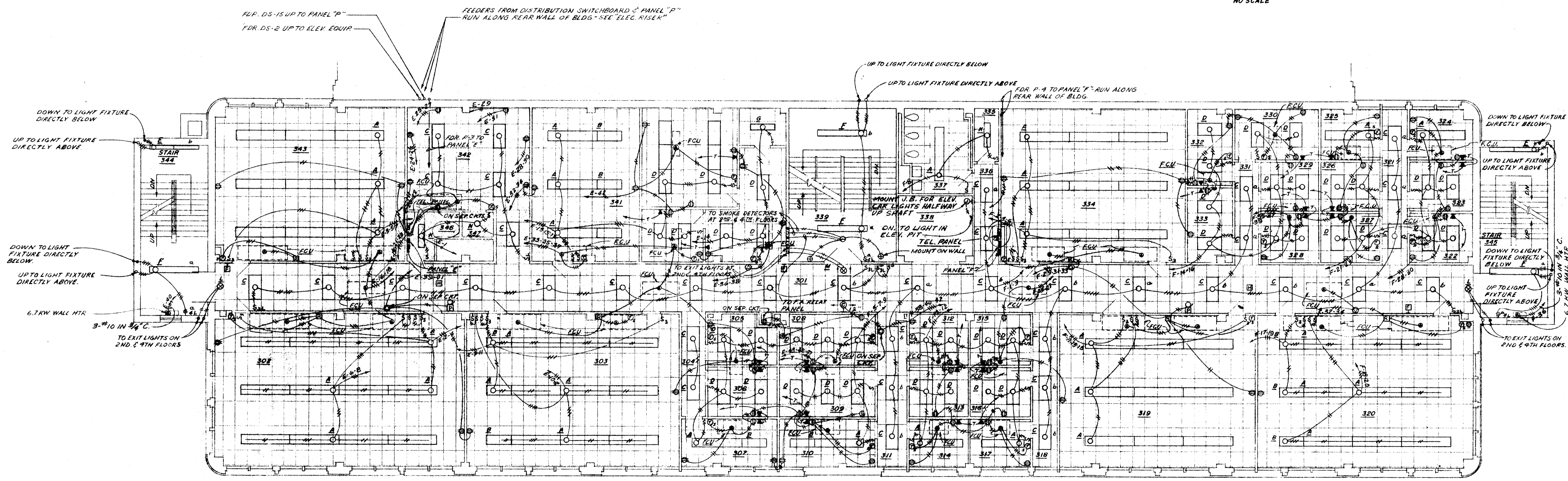
RISE CONDUITS UP ALONG OUTSIDE WALL OF BLDG. IN GYMNASIUM AREA, RUN ALONG WALL HORIZONTALLY & TURN INTO BLDG. AT TELEPHONE PANEL LOCATIONS.

TERMINATE 2 1/2" RIGID STEEL TEL SERVICE ENTRANCE CONDUIT IN EXIST. SERVICE TUNNEL AT EAST END OF MECH. RM. 155 IN ACCORDANCE W/LOCAL TEL. CO. REQUIREMENTS & CAP.

NOTE: INDIVIDUAL CONDUIT RUNS TO BRANCH TEL. OUTLETS SHALL BE 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE.

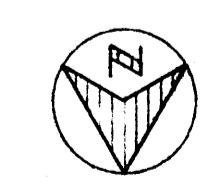
TELEPHONE SYSTEM RISER DIAGRAM

NO SCALE



THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"



H.E.W. PROJECT NO. 7-00380-0

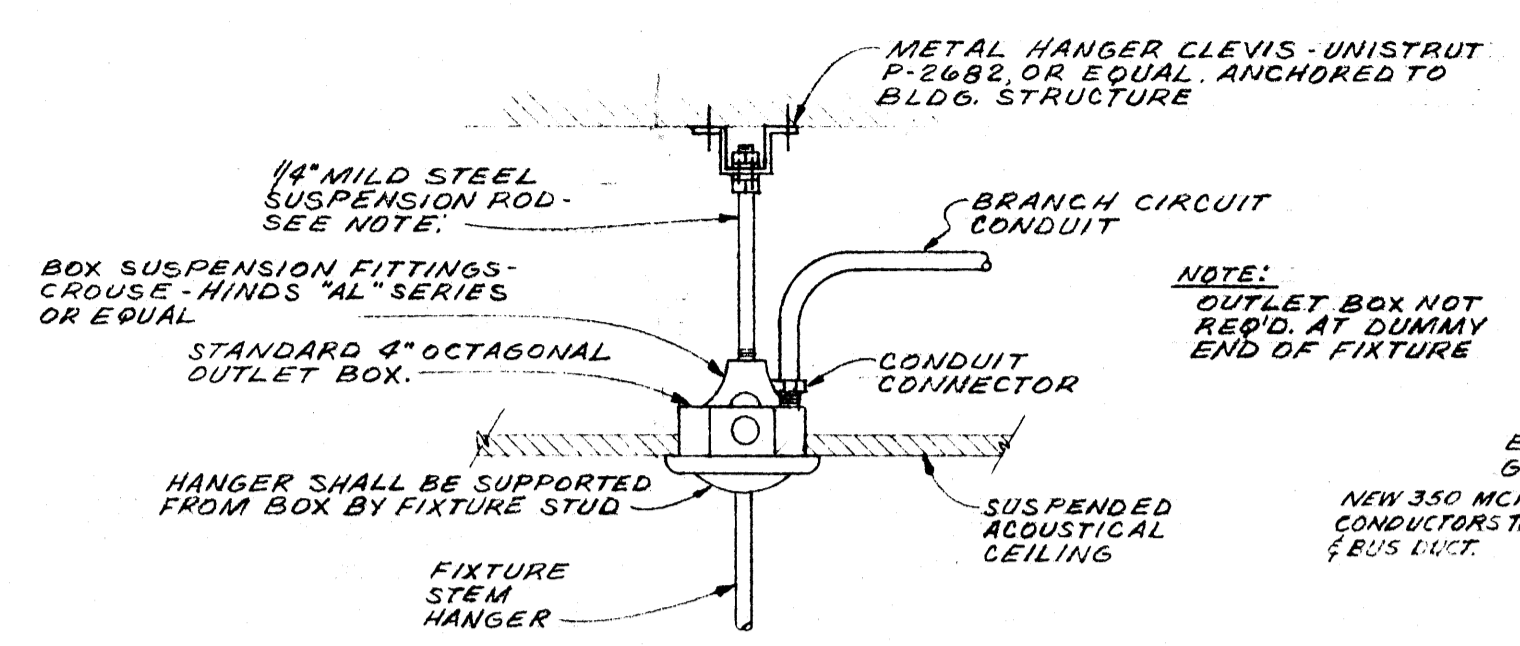
WILLIAM B. THOMPSON
CONSULTING ENGINEERS
500 POPLAR AVE. MEMPHIS, TENN.

RENOVATION OF SCIENCE BUILDING
ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

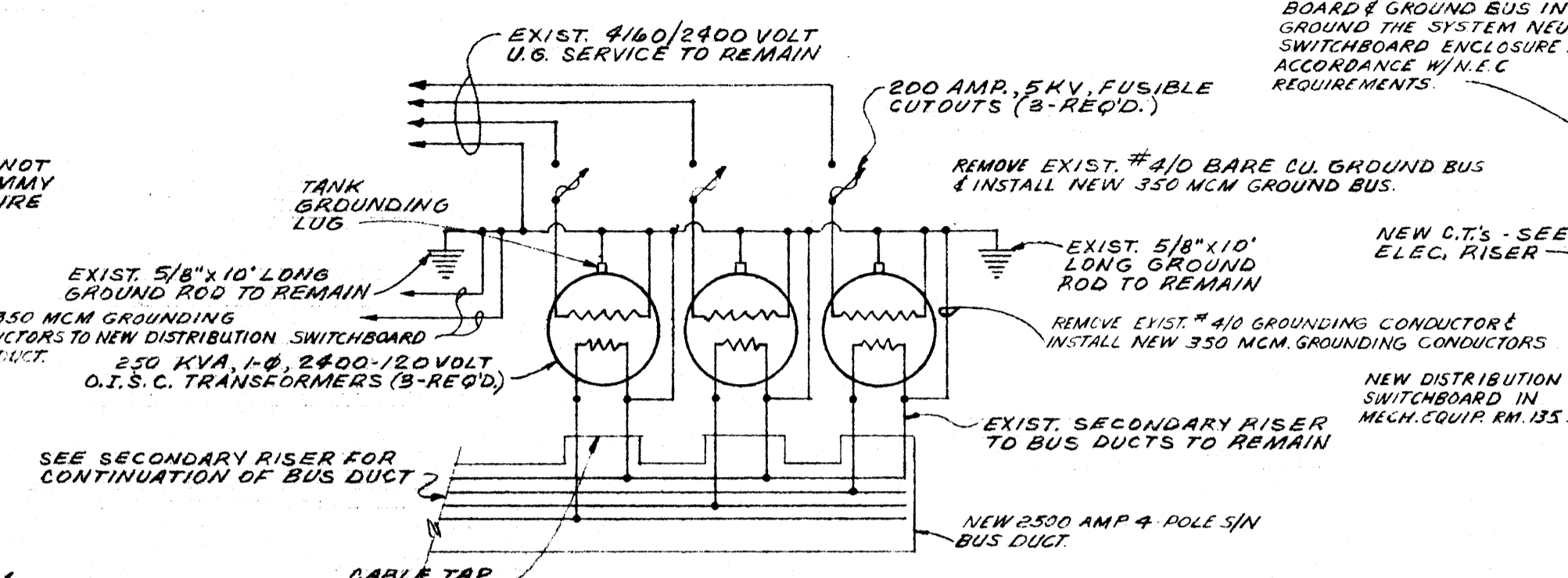
STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS

SHEET NUMBER
E-3
COMMISSION NUMBER
51168

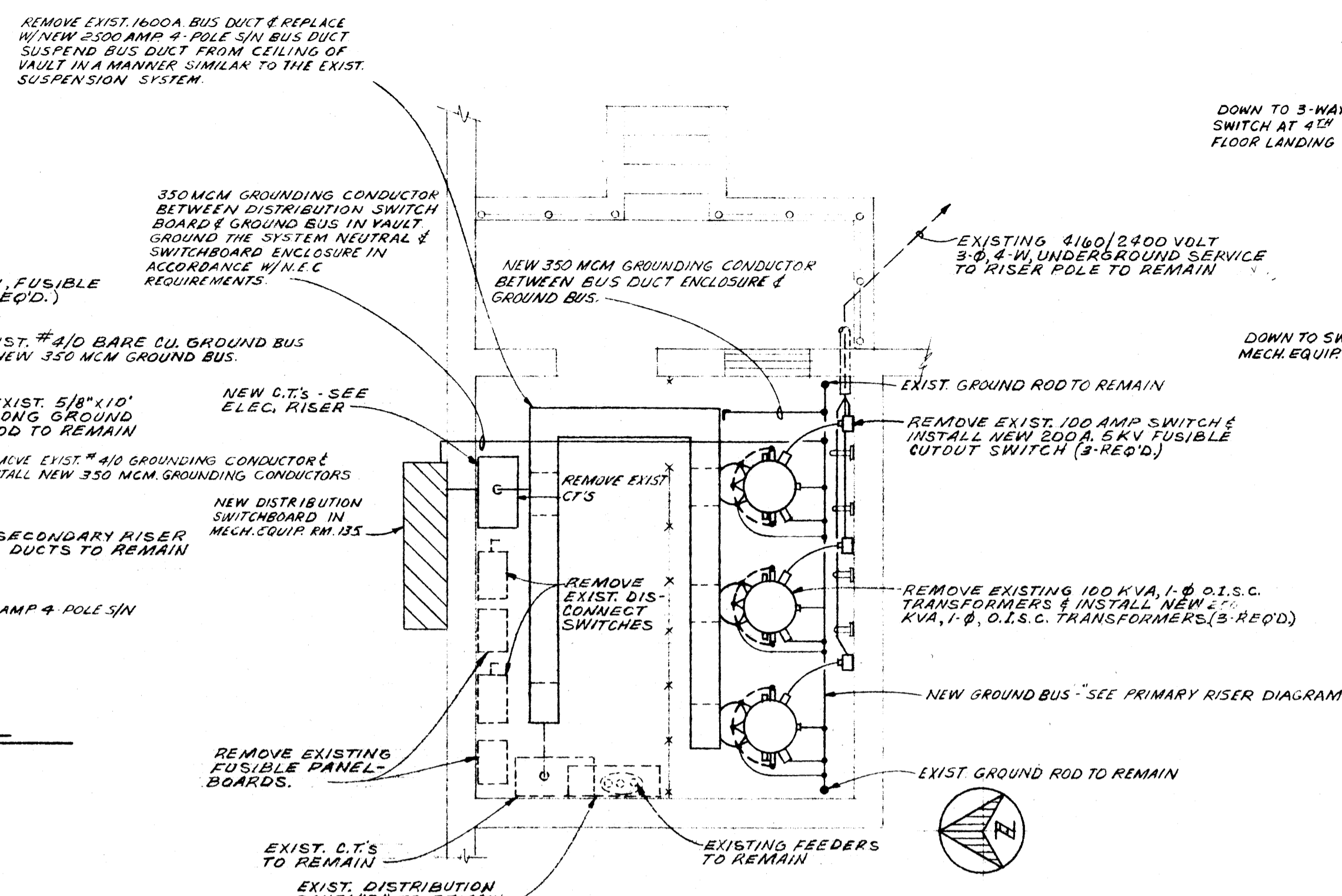
DATE	2-1-69
DRAWN BY	
CHECKED BY	
REVISIONS	



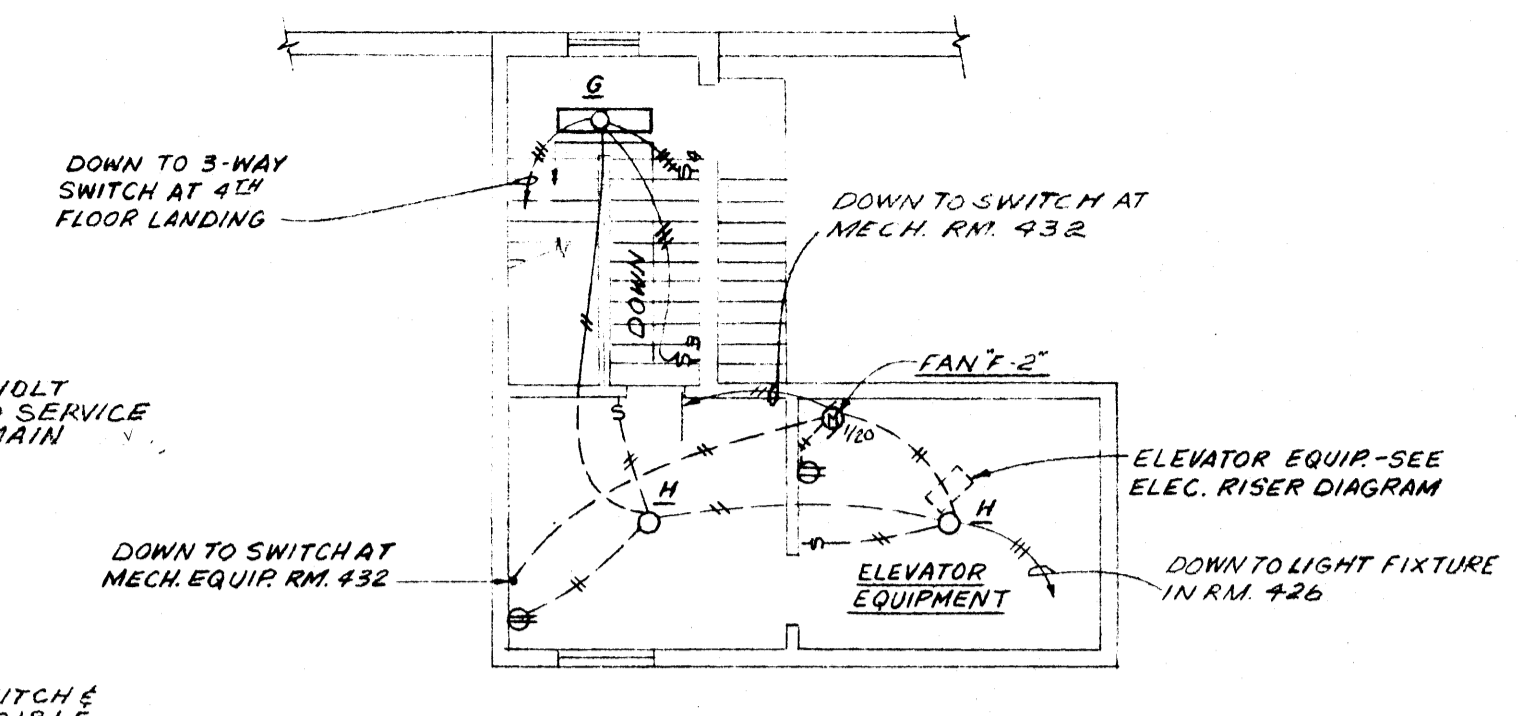
TYPICAL LIGHTING FIXTURE OUTLET BOX FOR PENDANT MOUNTED LIGHTING FIXTURE
NO SCALE



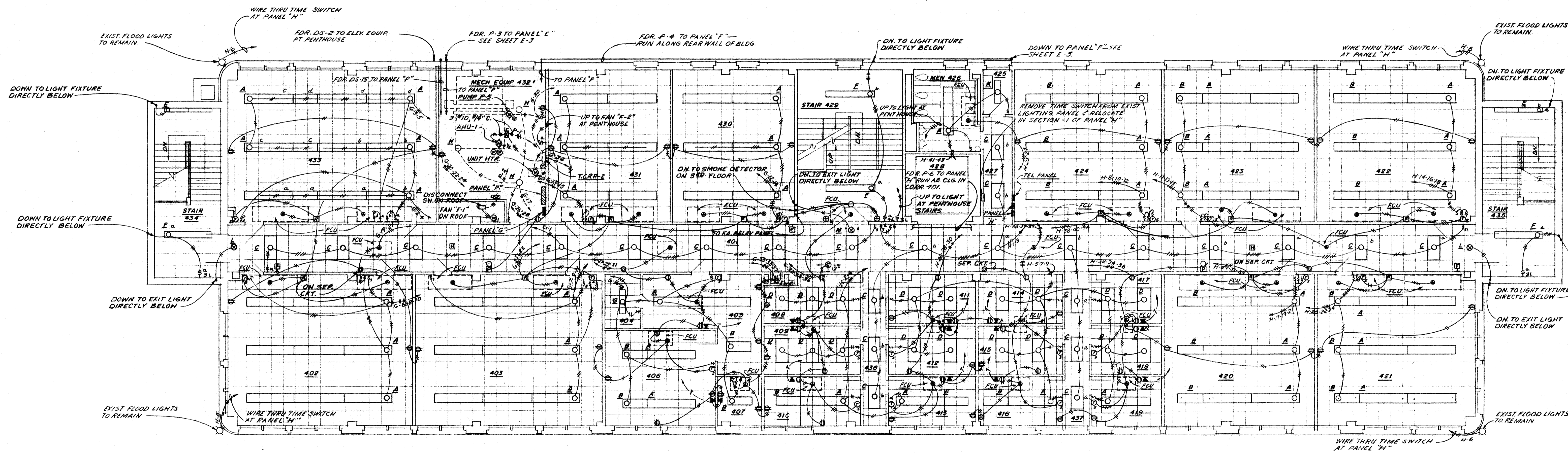
PRIMARY RISER DIAGRAM
NO SCALE



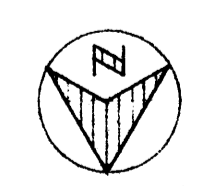
EXISTING TRANSFORMER VAULT DETAIL
SCALE: 1/4"=1'-0"



PENTHOUSE FLOOR PLAN
SCALE: 1/8"=1'-0"



FOURTH FLOOR PLAN
SCALE: 1/8"=1'-0"



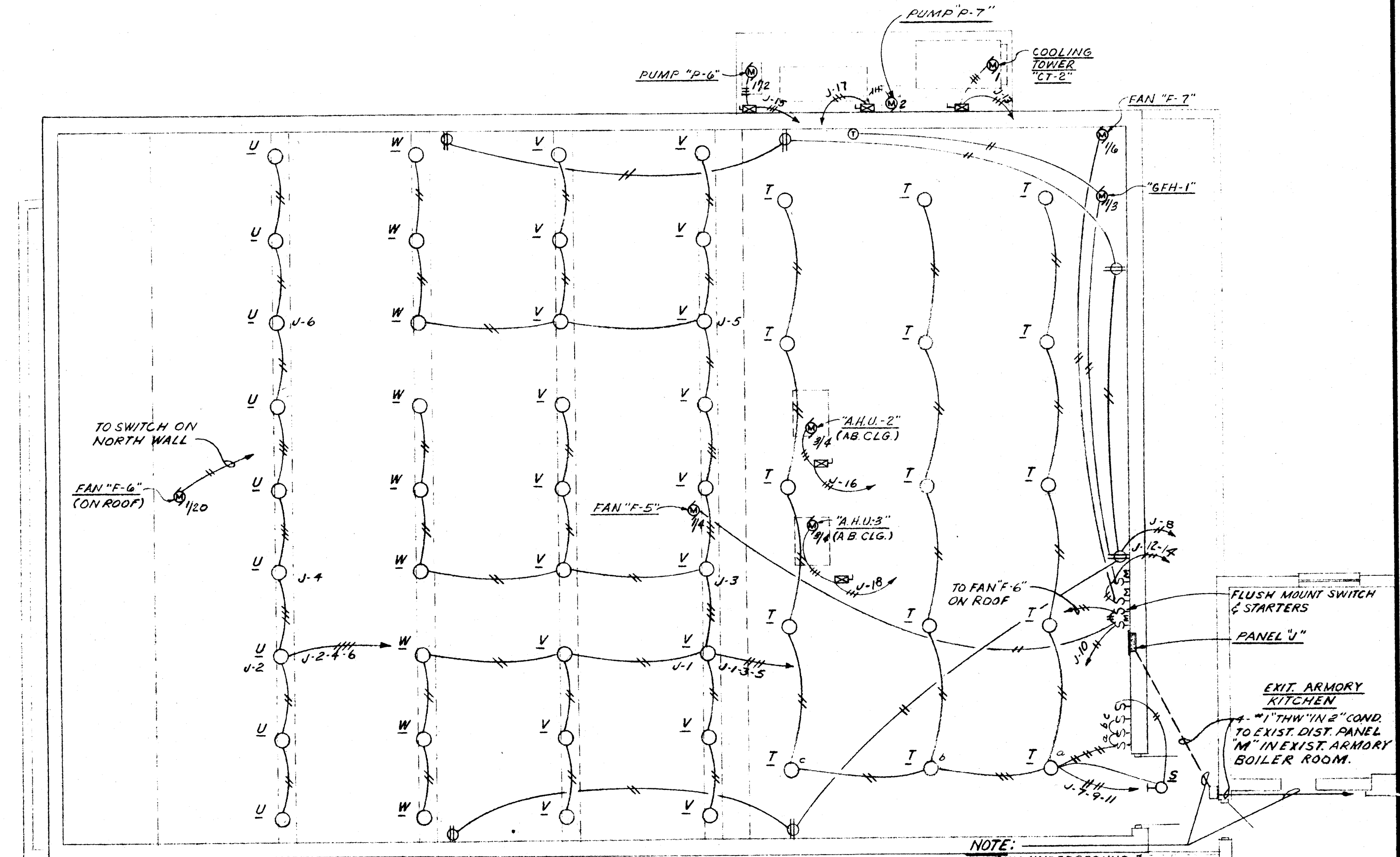
H.E.W. PROJECT NO. 7-00380-0

	DATE	2-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER	E-4		
	DRAWN BY			STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS		COMMISSION NUMBER	51168
	CHECKED BY						
	REVISIONS						

WILLIAM D. DIXON
CONSULTING ENGINEER
6050 FORLAN AVE. MEMPHIS, TENN.

NOTES: (ALTERNATE BID ONLY)

1. DELETE ALL WIRING FOR THE FOLLOWING EQUIPMENT UNDER THE ALTERNATE BID:
 1. COOLING TOWER FAN "CT-2"
 2. PUMP "P-6"
 3. PUMP "P-7"
 4. AHU-2
 5. AHU-3
2. DECREASE SIZE OF FEEDER TO PANEL "U" FROM EXIST. PANEL "M" FROM 4-#1 IN 2" CONDUIT TO 4-#2 THW IN 1 1/2" CONDUIT.
3. DECREASE SIZE OF CIRCUIT BREAKER TO BE INSTALLED IN EXIST. PANEL "M" FROM 100 AMPS TO 70 AMPS.
4. SEE PANEL BOARD SCHEDULE FOR DELETIONS IN PANEL "U" UNDER ALTERNATE BID.

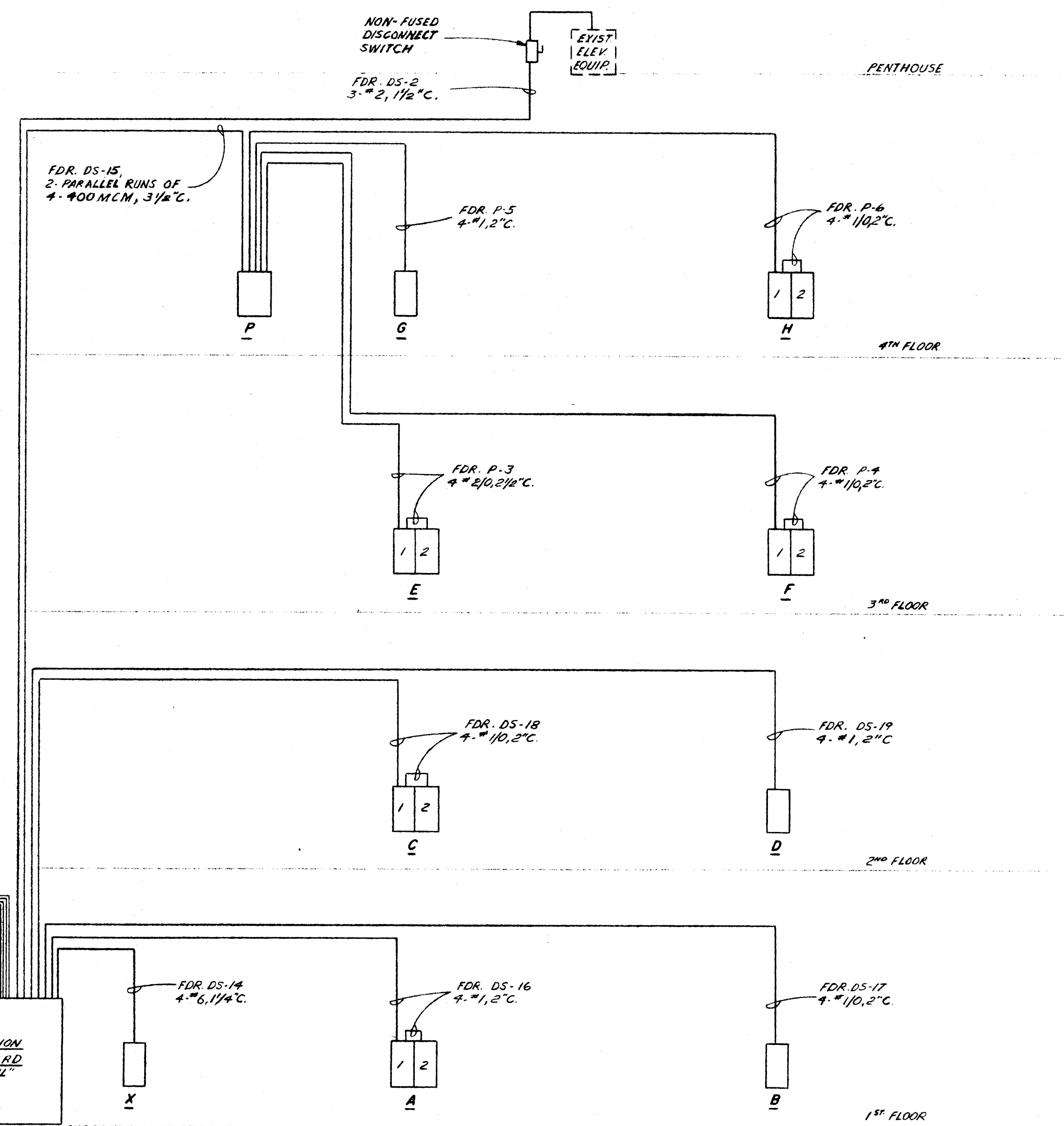


FLOOR PLAN OF RIFLE RANGE

SCALE 1/8" = 1'-0"

NOTE:
 RUN UNDERGROUND & TURN UP ALONG OUTSIDE WALL OF ARMORY INTO W.P. PULL BOX MOUNTED ON SIDE OF BLDG. RUN CONDUIT EXPOSED IN DRILL HALL OF ARMORY & TURN DOWN ALONG NORTH WALL OF DRILL HALL INTO BOILER RM. PROVIDE 3-POLE 100 AMP CIRCUIT BREAKER IN EXIST. PANEL "M" AT ARMORY BOILER ROOM.

EXISTING VEHICLE ENTRY INTO ARMORY



SECONDARY SYSTEM ELECTRICAL RISER DIAGRAM

NO SCALE

NEW 2500 AMP A-POLE S/W BUS DUCT AT TRANS. VAULT

EXIST. FEEDER TO PANEL "P" TO REMAIN

EXIST. CURRENT TRANSFORMERS & WATT-HOUR METER TO REMAIN

EXIST. DISTRIBUTION PANEL "P" TO REMAIN

TRANS. VAULT

NEW 8000 LB CURRENT TRANS. & WATT-HOUR METER MOUNT 'G'S' IN SHEETMETAL ENCLOSURE IN TRANS. VAULT

PROVIDE GROUNDING IN ACCORDANCE W/ N.E.C. REQUIREMENTS. SEE EXIST. TRANS. VAULT DETAIL ON SHEET E-4 OF DRAWINGS.

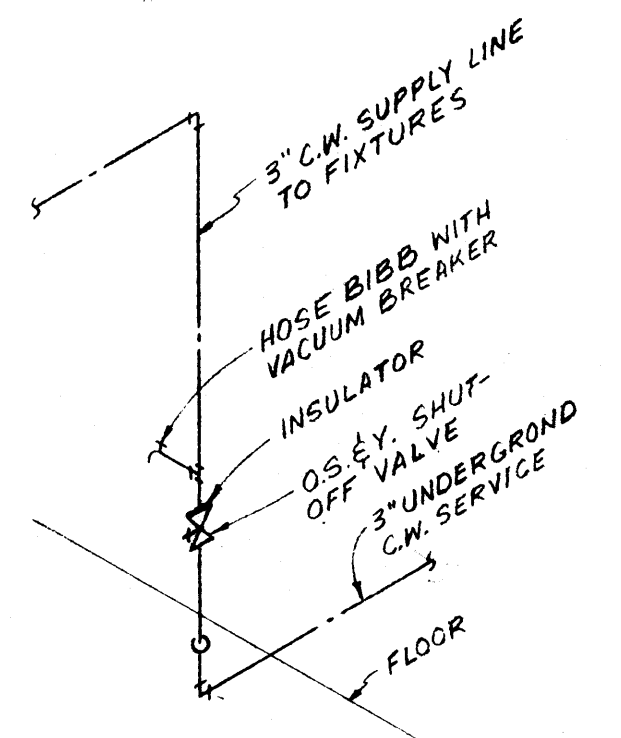
HEW PROJECT NO. 7-00380-6

	DATE	2-1-69	12 POINT RIFLE RANGE ARKANSAS STATE UNIVERSITY JONESBORO ARKANSAS	SHEET NUMBER	E-5 COMMISSION NUMBER 51168
	DRAWN BY			STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	
	CHECKED BY				
	REVISIONS				

WILLIAM B. THOMPSON
 CONSULTING ENGINEERS
 5050 POPLAR AVE. MEMPHIS, TENN.

LEGEND

- SOIL OR WASTE LINE
- COMBINATION WASTE & VENT LINE
- VENT LINE
- R.L. RAIN LEADER
- S.D. STORM DRAIN
- C.W. COLD WATER LINE
- H.W. HOT WATER LINE
- G. GAS LINE
- R.L. EXIST. RAIN LEADER TO REMAIN
- S.D. EXIST. STORM DRAIN TO REMAIN
- C.W. EXIST. C.W. LINE TO REMAIN
- H.W. EXIST. H.W. LINE TO REMAIN
- G. EXIST. G.W. LINE TO BE REMOVED
- C.W. COLD WATER
- H.W. HOT WATER
- R.L. RAIN LEADER
- S.D. STORM DRAIN
- W.S. WASTE STACK
- V.S. VENT STACK
- S.S. SOIL STACK
- R.D. ROOF DRAIN
- F.D. FLOOR DRAIN
- O.M. OPEN WASTE
- H.B. HOSE BIBB
- D.N. DOWN
- F.L. FLOOR
- V.T.R. VENT THRU ROOF
- C.L.G. CEILING
- C.O.T.F. CLEAN OUT THRU FLOOR
- INDICATES RISER NO.
- U.G. UNDERGROUND
- EXIST. GAS LINE TO BE REMOVED
- S. SHOCK ABSORBER
- C.O.T.G. CLEAN OUT TO GRADE
- HOT WATER RETURN LINE



C.W. SERVICE ENTRANCE DETAIL
NO SCALE

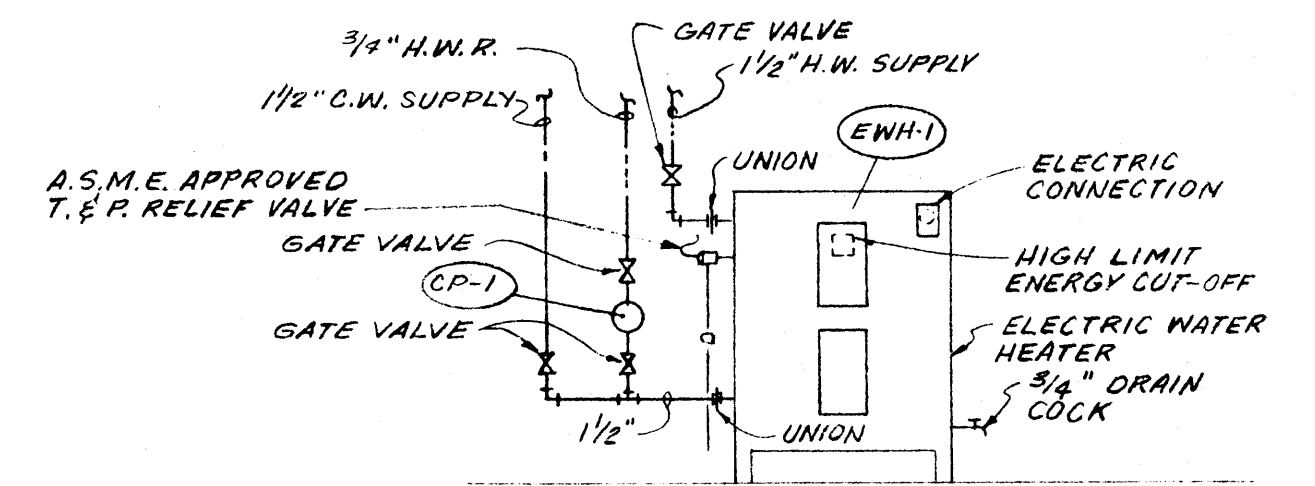
ROOF DRAIN SCHEDULE			
MARK	BODY	DOVE OR STRAINER	REMARKS
R.D.#1	C.I.	C.I.	WADE #W-3510-DF OR AN APPROVED EQUAL

FLOOR DRAIN SCHEDULE			
MARK	BODY	GRATE OR STRAINER	REMARKS
F.D.#1	C.I.	6" NICKEL BRONZE	WADE #W-1100 OR AN APPROVED EQUAL
F.D.#2	C.I.	11" C.I.	WADE #W-1440 OR AN APPROVED EQUAL
O.W.#1	C.I.	6" POLISHED BRASS FUNNEL & GRATE	WADE #W-1100DF OR AN APPROVED EQUAL

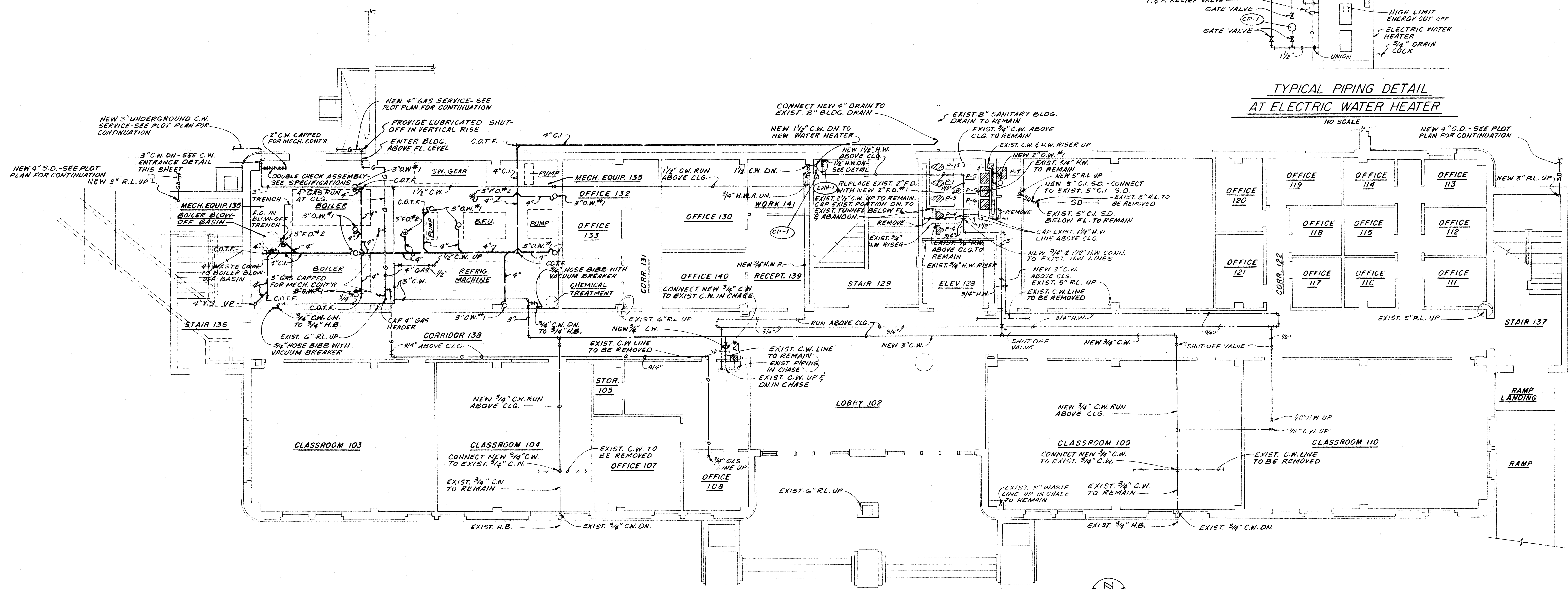
CIRCULATOR PUMP SCHEDULE				
MARK	HEAD IN FT.	GPM	MOTOR DATA	REMARKS
CP-1	12	4	1/2 H.P. 115/1140	THRU MODEL "HH" OR AN APPROVED EQUAL.

PLUMBING FIXTURE SCHEDULE							
SYMBOL	FIXTURE	SOIL	WASTE	VENT	H.W.	C.W.	REMARKS
P-1	WATER CLOSET	4"	—	2"	—	1"	MEN'S
P-2	WATER CLOSET	4"	—	2"	—	1"	WOMEN'S
P-3	WATER CLOSET	4"	—	2"	—	1"	HANDICAPPED
P-4	URINAL	2"	—	1 1/2"	—	3/4"	—
P-5	LAVATORY	—	1 1/2"	1 1/2"	1/2"	1/2"	—
P-6	LAVATORY	—	1 1/2"	1 1/2"	1/2"	1/2"	HANDICAPPED
P-7	SERVICE SINK	—	2"	1 1/2"	1/2"	1/2"	—
P-8	ELECTRIC DRINKING FOUNTAIN	—	1 1/2"	1 1/2"	—	1/2"	BASIN TO BE 36" ABOVE FIN. FL. LEVEL

ELECTRIC WATER HEATER SCHEDULE				
MARK	STORAGE	RECOVERY	ELECTRICAL DATA	REMARKS
ENH-1	30 GAL.	40"-140" 36.9 G.P.H.	9 K.W. 208/1160	—



TYPICAL PIPING DETAIL AT ELECTRIC WATER HEATER
NO SCALE



FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

WILLIAM B. THOMPSON
CONSULTING ENGINEERS
5020 POPLAR AVE. MEMPHIS, TENN.

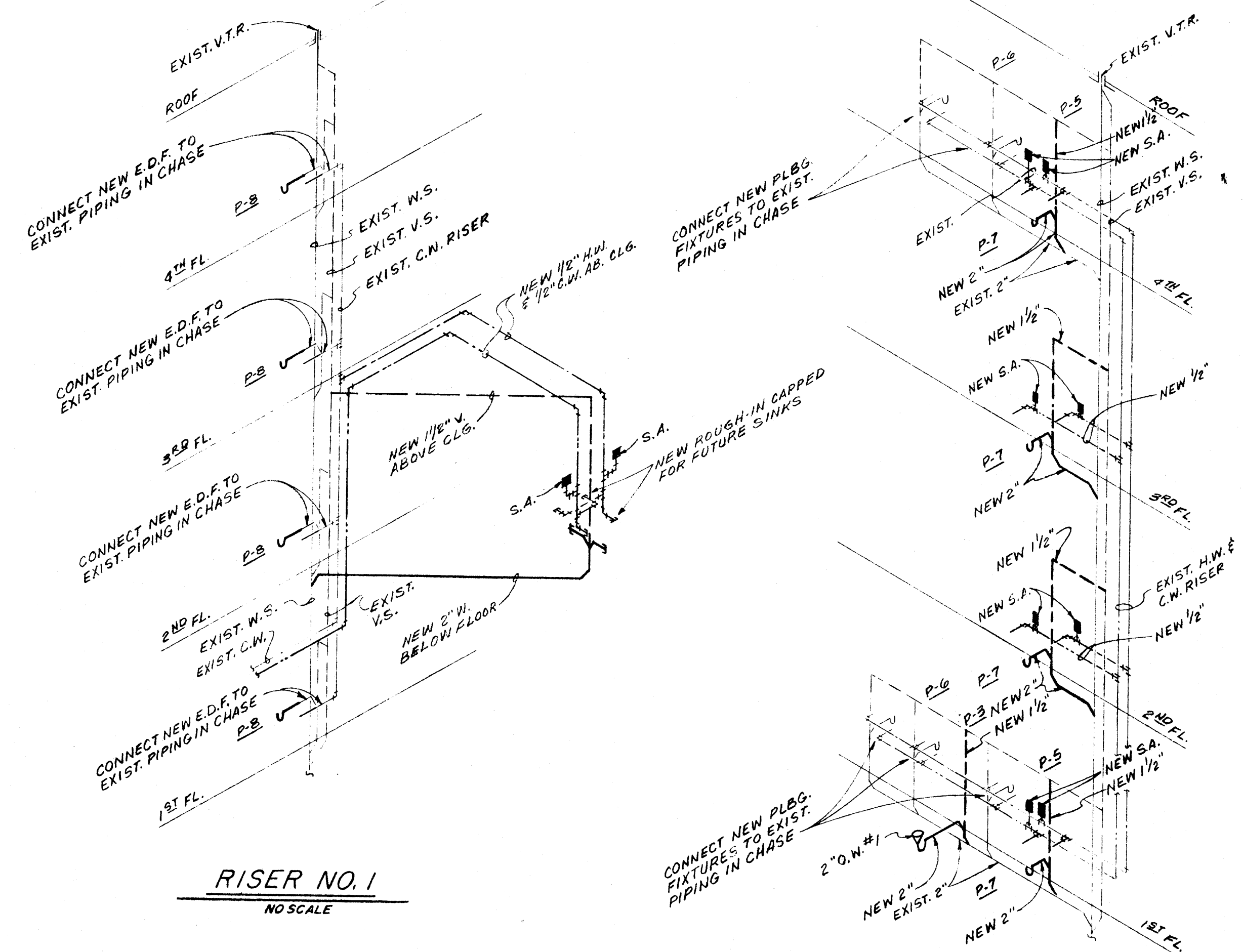
H.E.W. PROJECT NO. 7-00380-0

RENOVATION OF SCIENCE BUILDING
ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
601 SOUTH WEST DRIVE • JONESBORO, ARKANSAS

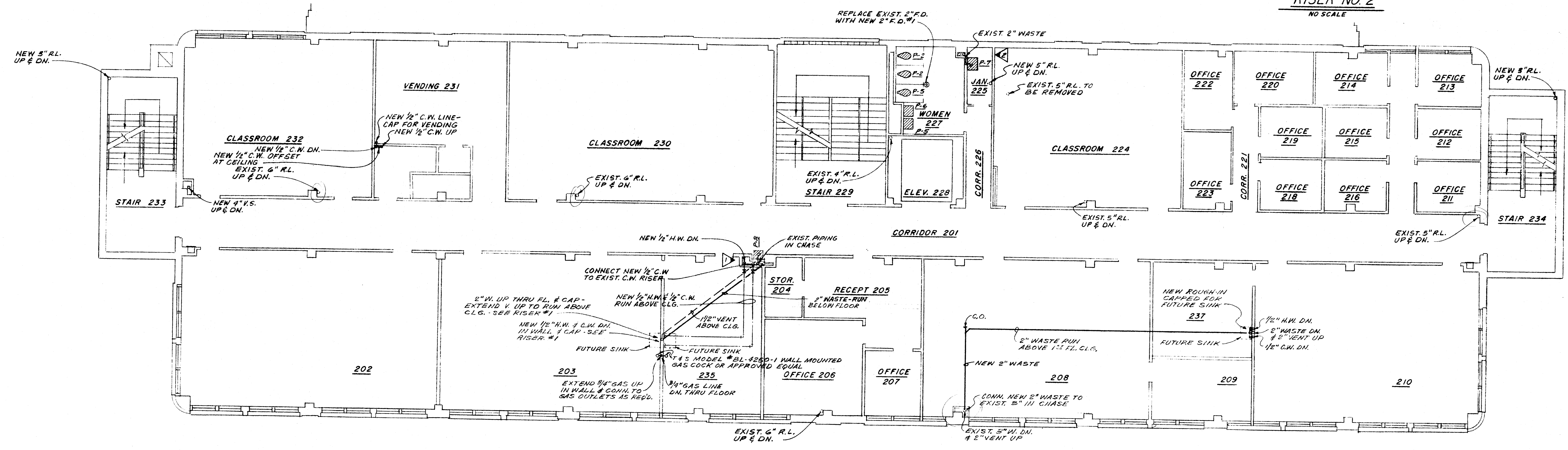
DATE	2-1-69
DRAWN BY	J.F.S.
CHECKED BY	J.C.
REVISIONS	

SHEET NUMBER	P-1
COMMISSION NUMBER	51168

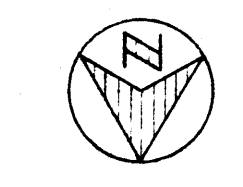


RISER NO. 1
NO SCALE

RISER NO. 2
NO SCALE



SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"



H.E.W. PROJECT NO. 7-00380-0

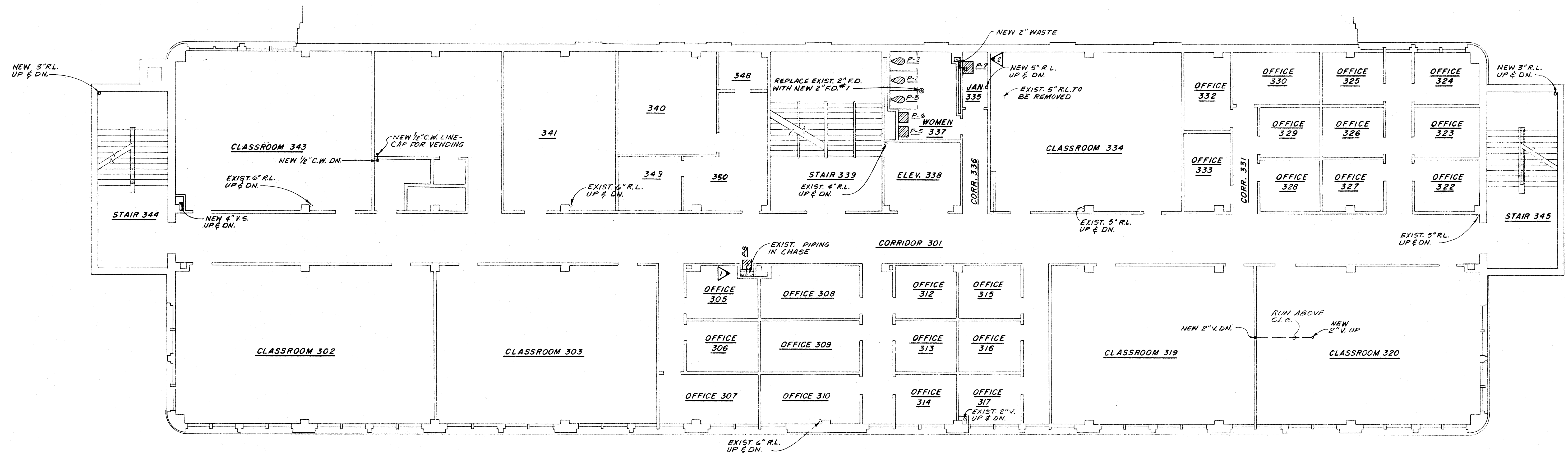
DATE	2-1-69
DRAWN BY	
CHECKED BY	
REVISIONS	

RENOVATION OF SCIENCE BUILDING
ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

SHEET NUMBER
P-2

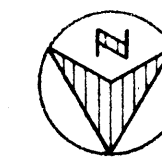
STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS

COMMISSION NUMBER
51168



THIRD FLOOR PLAN

SCALE: 1/8"=1'-0"



H.E.W. PROJECT NO. -7-00380-0

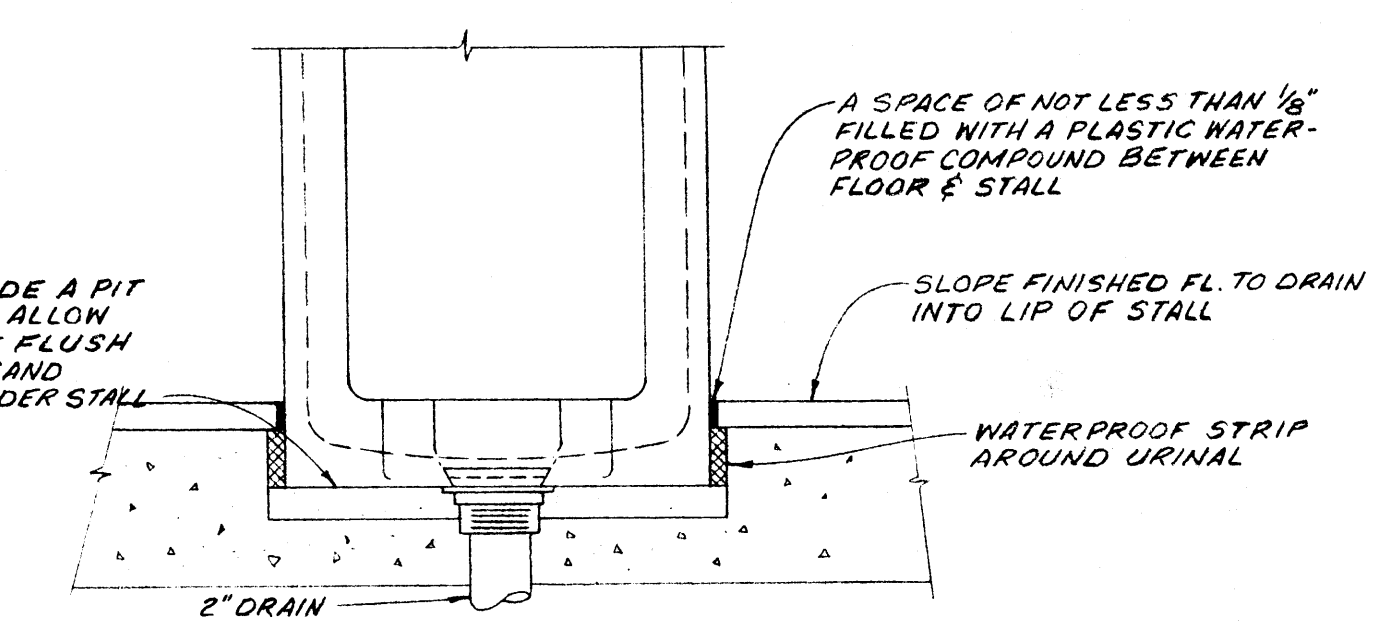
WILLIAM B. THOMPSON
CONSULTING ENGINEER'S
OFFICE

DATE	2-1-69
DRAWN BY	
CHECKED BY	
REVISIONS	

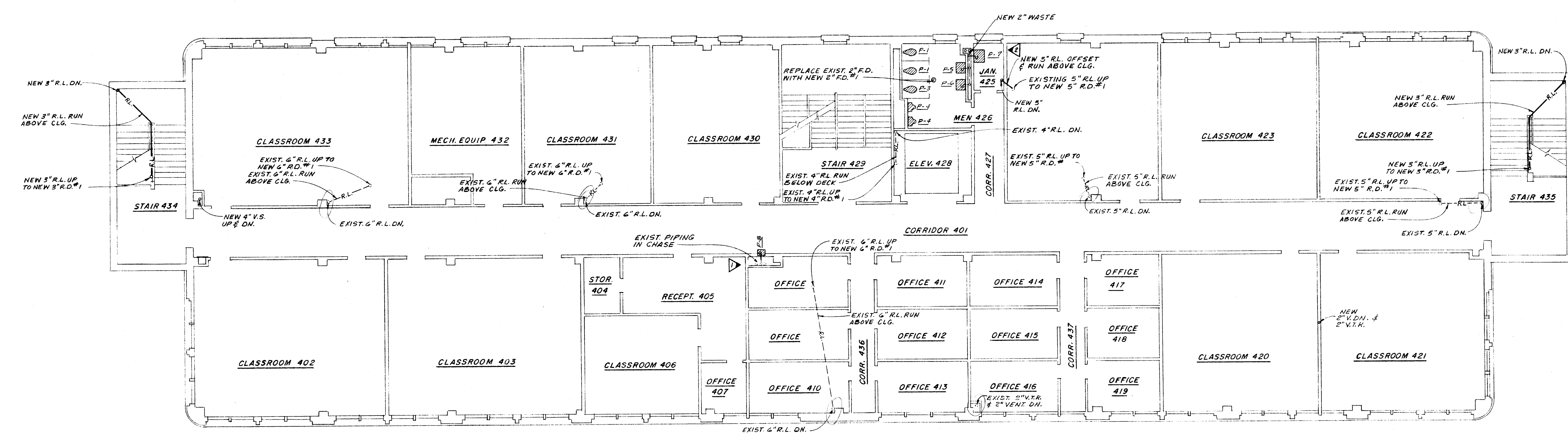
RENOVATION OF SCIENCE BUILDING
ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS

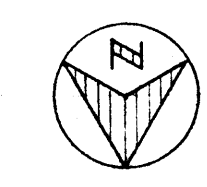
SHEET NUMBER	P-3
COMMISSION NUMBER	51168



TYPICAL DETAIL OF STALL URINAL SETTING
NO SCALE



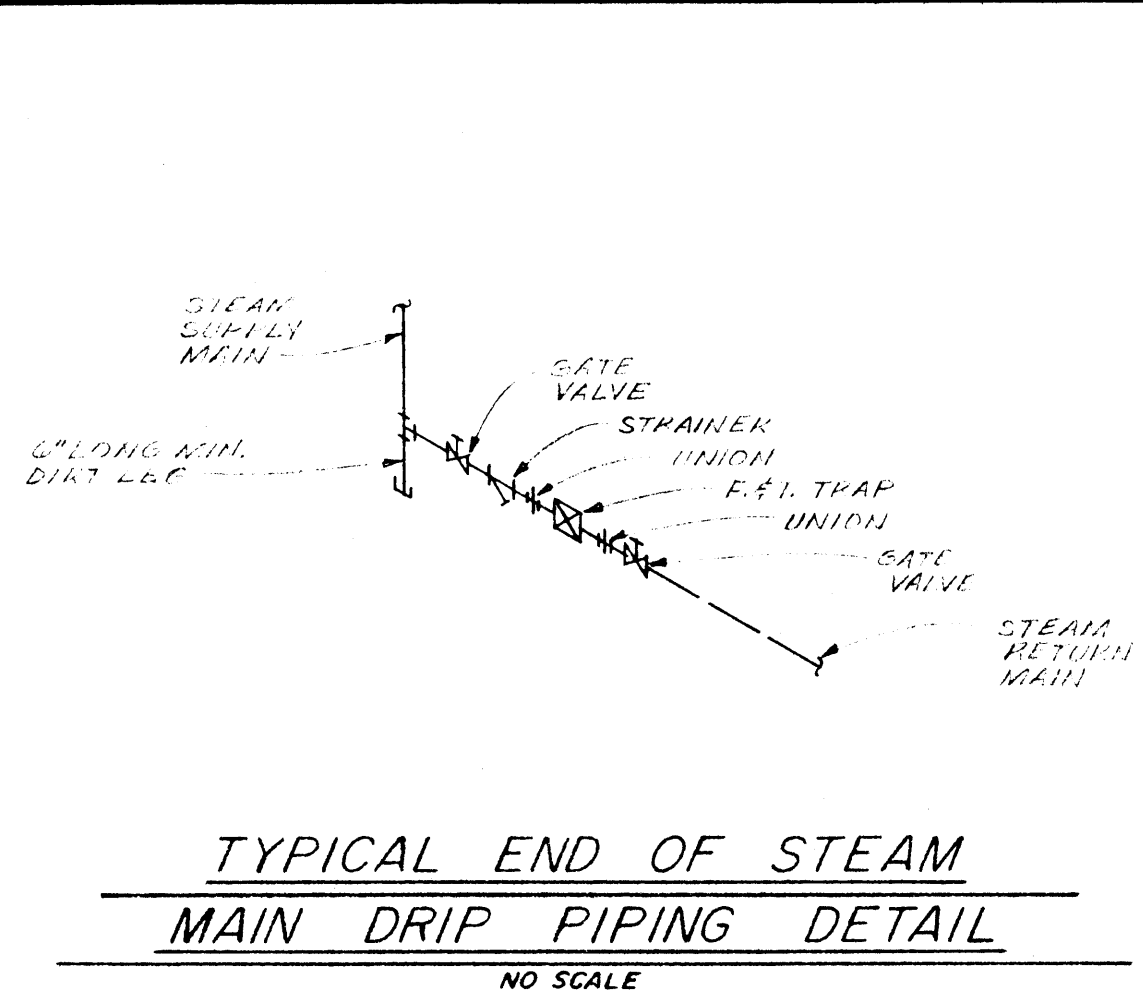
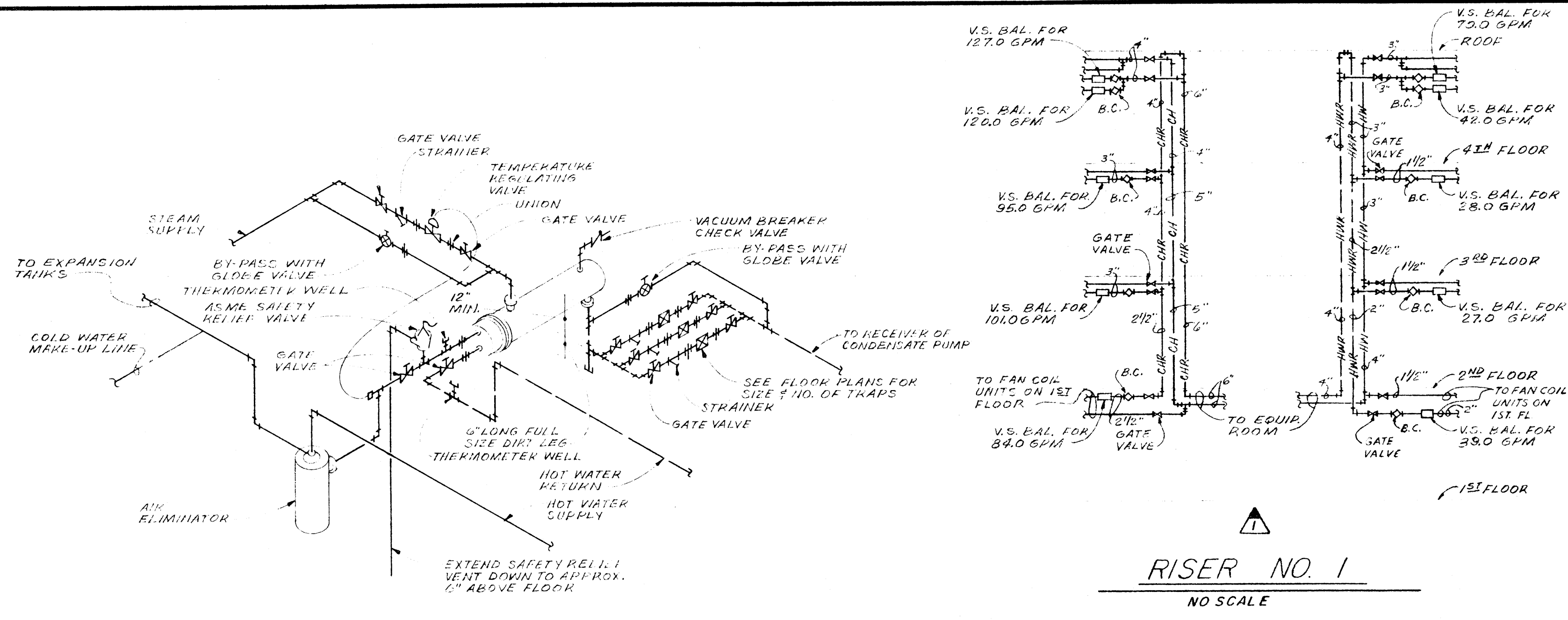
FOURTH FLOOR PLAN
SCALE: 1/8"=1'-0"



H.E.W. PROJECT NO. 7-00380-0

WILLIAM B. THOMPSON
CONSULTING ENGINEERS
5090 POPLAR AVE. MEMPHIS, TENN.

DATE 2-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	SHEET NUMBER P-4
DRAWN BY		COMMISSION NUMBER 51168
CHECKED BY		
REVISIONS		

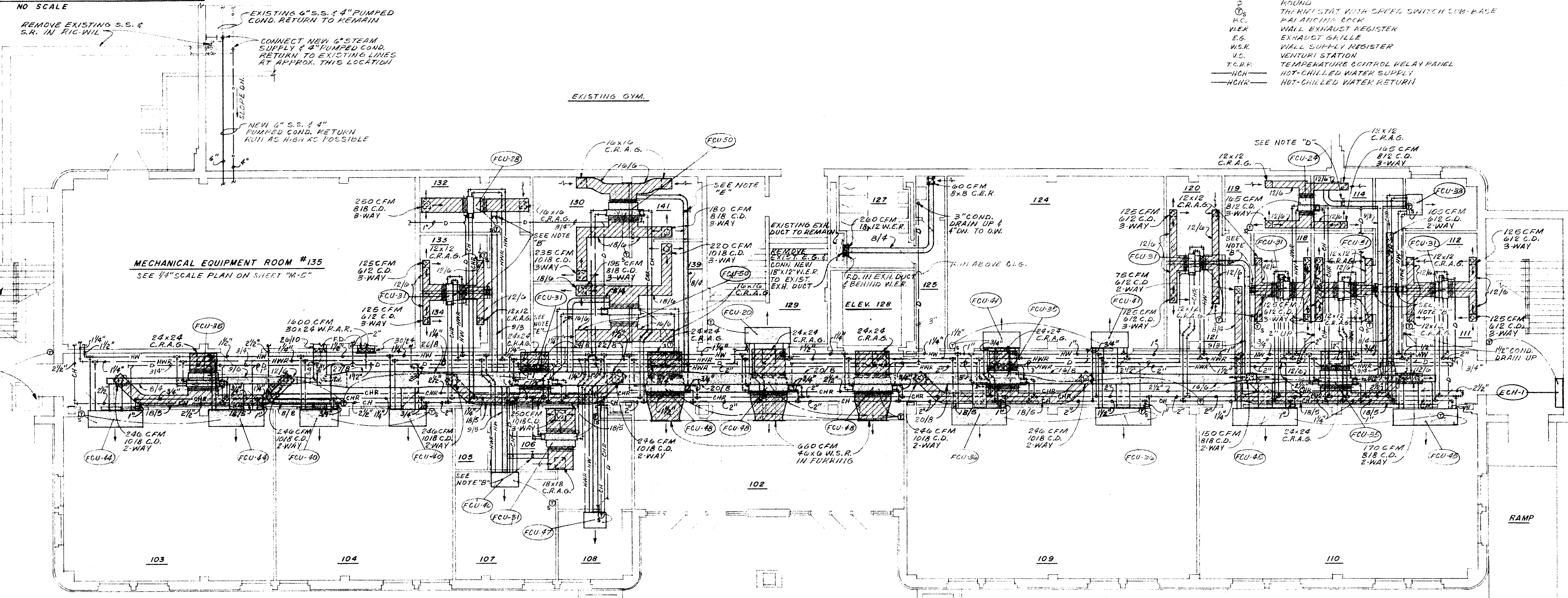


LEGEND	
---	LOW PRESSURE STEAM SUPPLY
---	LOW PRESSURE STEAM RETURN
---	PUMPED CONDENSATE RETURN
---	BOILER FEED LINE
H-W	HOT WATER SUPPLY
H-WR	HOT WATER RETURN
CH	CHILLED WATER SUPPLY
CH-R	CHILLED WATER RETURN
C	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
FP	FRESH PRODUCTION SUPPLY
FP-R	FRESH PRODUCTION RETURN
CT	COOLING TREATMENT LINE
CB	CONDENSATE BLEED LINE
D	DRAIN LINE
G	GAZE LINE
V	VENT LINE
VS	VENTURI STATION
C.W.	COLD WATER MAKE UP
S.A.	SUPPLY AIR
R.A.	RETURN AIR
O.C.A.	OUTSIDE AIR
EXH.	EXHAUST
C.D.	CEILING DRAINAGE
C.R.A.G.	CEILING RETURN AIR GRILLE
W.R.A.R.	WALL RETURN AIR REGISTER
T.V.	TURNDOWN VALVES
S.D.	SPLITTER DAMPER
C.E.R.	CEILING EXHAUST REGISTER
D.E.	DAMP GRILLE
F.D.	FLOOR DAMPER
DN	DOWN
OW	OPEN WASTE AT FLOOR FLOOR CONTR.
M.D.	MULTI-LOUVERED OPERATED BLADE DAMPER
F.T.	FLOOR THROUGH FLOOR
T	THERMOSTAT
T.S.	THERMOSTAT WITH SPEED SWITCH SUB-BASE
R.C.	RATCHING COCK
W.E.R.	WALL EXHAUST REGISTER
E.G.	EXHAUST GRILLE
W.S.R.	WALL SUPPLY REGISTER
V.S.	VENTURI STATION
T.C.R.P.	TEMPERATURE CONTROL RELAY PANEL
HCH	HOT-CHILLED WATER SUPPLY
HCHR	HOT-CHILLED WATER RETURN

SCHEMATIC HEAT EXCHANGER PIPING DETAIL
NO SCALE

TYPICAL END OF STEAM MAIN DRIP PIPING DETAIL
NO SCALE

NOTE:
ALL SUPPLY & RETURN AIR DUCTWORK SERVING FAN COIL UNITS CONCEALED ABOVE CEILING SHALL BE INTERNALLY INSULATED - SEE SPECS FOR THICKNESS & TYPE INSULATION TO BE USED.



- NOTES:**
1. ALL CHILLED WATER & HOT WATER SUPPLY & RETURN RUN-OUTS FROM MAINS TO FAN COIL UNITS SHALL BE 1/2" UNLESS NOTED OTHERWISE.
 2. ALL CONDENSATE DRAIN RUN-OUTS TO FAN COIL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
 3. ALL BRANCH TAKE-OFFS FROM SUPPLY AIR DUCTS TO FAN COIL UNITS SHALL BE 24" X 24" UNLESS NOTED OTHERWISE. ELIMINATE UNUSED PORTION OF MAKE-UP AIR OPENINGS ON FAN COIL UNIT AS REQUIRED.

- NOTE "B":** BALANCE MANUAL MLD IN 5'-2" S.A. DUCT FOR 24 CFM.
NOTE "D": BALANCE MANUAL MLD IN 5'-2" S.A. DUCT FOR 25 CFM.
NOTE "E": BALANCE MANUAL MLD IN 2'-4" S.A. DUCT FOR 94 CFM.

FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

H.E.W. PROJECT NO. 7-00380-0

DATE 2-1-69	DRAWN BY	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER M-1
CHECKED BY			COMMISSION NUMBER 51163
REVISIONS	STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS		

WILLIAM B. THOMPSON
CONSULTING ENGINEERS
1001 PULASKI AVE., JONESBORO, ARK.

AIR HANDLING UNIT SCHEDULE								
MARK	TYPE	SERVICE & MOUNTING	TOTAL CFM	MIN. O.S.A. CFM	MAX. FAN RPM	MAX. OUTLET VEL. FPM	EXT. S.P. IN INCHES H ₂ O	MOTOR DATA
(AHU-1)	HORIZ. DRAW-THRU	100% O.S.A. WAKE-UP UNIT	7,886	7,886	1280		2.0	7 1/2 H.P. 200/3/60

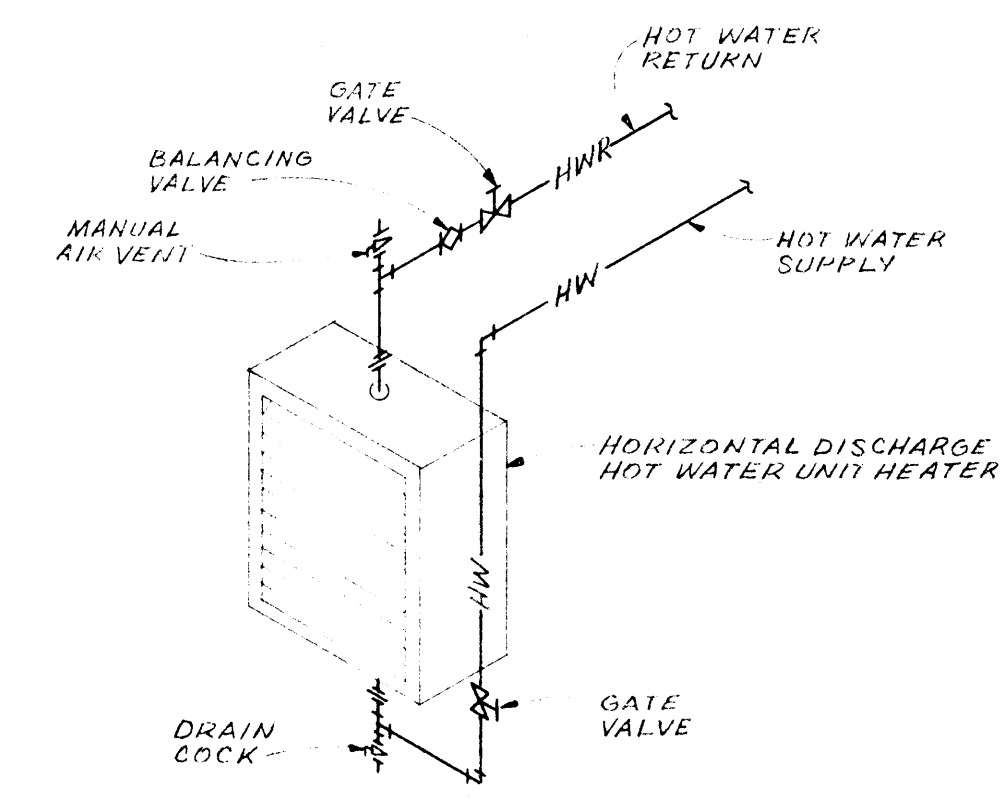
COOLING COIL SCHEDULE									
MARK	CFM	MAX. COIL FACE VEL.	ADP	TOTAL COOLING TONS	ENT. AIR TEMP.		LVG. AIR TEMP.		CHILLED WATER ENT. TEMP. GPM
					DB	WB	DB	WB	
(AHU-1)	7,886	550	58.5	52.8	95.0°	78.0°	56.0°	55.5°	42.0° 127.0°

NOTE: CHILLED WATER F.D. TEMP. 40°/50° MAX.

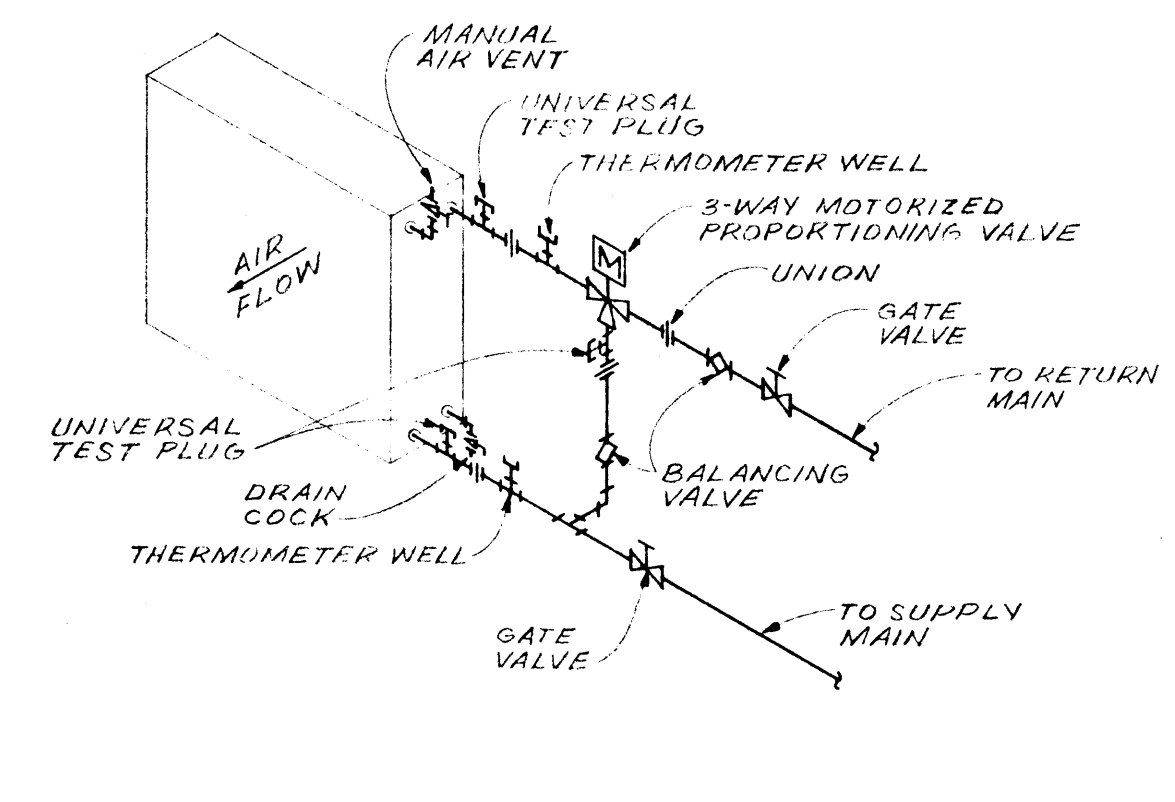
HEATING COIL SCHEDULE								
MARK	CFM	MAX. COIL FACE VEL.	OUTPUT CAPACITY BTU/HR.	ENT. AIR TEMP.	LVG. AIR TEMP.	GPM	ENT. WATER TEMP.	REMARKS
(HHC-1)	7,886	150	187,000	50.0°	72.0°	18.7	200°	

NOTE: HOT WATER F.D. THRU COIL 5°/10° MAX.

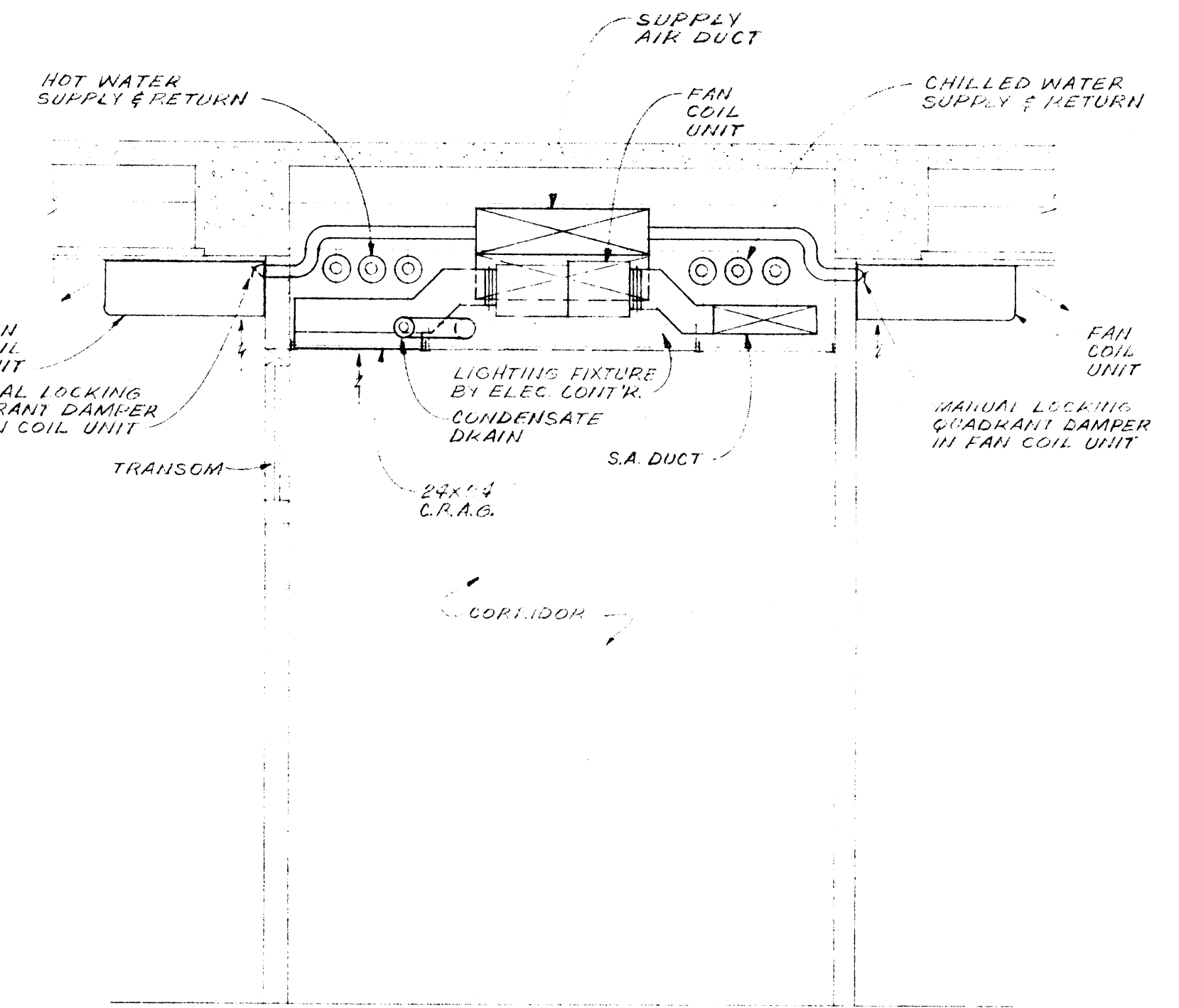
ELECTRIC CABINET UNIT HEATER SCHEDULE							
MARK	DESCRIPTION	MAX. KW INPUT	BTU OUTPUT	CFM STD. 70°F.	FAN SPEED RPM	ELECTRICAL SERVICE	CAN. I/P.
(ECH-1)	FLOOR MOUNTED VERTICAL DISCHARGE	11.2	38,200	900	750	208/3/60	1/8 H.P.
(ECH-2)	DO	6.7	22,700	840	900	208/3/60	1/20 H.P.



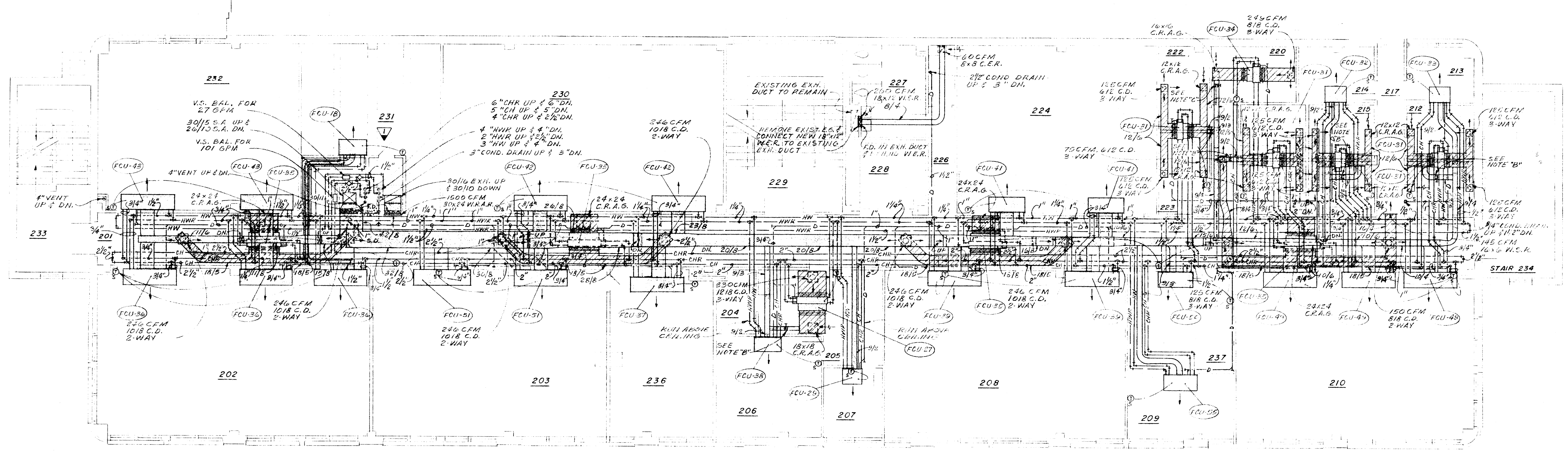
HOT WATER UNIT HEATER PIPING DETAIL
NO SCALE



TYPICAL WATER COIL SCHEMATIC PIPING DETAIL
NO SCALE



TYPICAL SECTION THRU CORRIDOR
SCALE: 1/2" = 1'-0"



- NOTES:**
- ALL CHILLED WATER & HOT WATER SUPPLY & RETURN RUN-OUTS FROM MAINS TO FAN COIL UNITS SHALL BE 1/2" UNLESS NOTED OTHERWISE.
 - ALL CONDENSATE DRAIN RUN-OUTS TO FAN COIL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
 - ALL BARNICH TAKE-OFFS FROM SUPPLY AIR DUCTS TO FAN COIL UNITS SHALL BE 24"x24" UNLESS NOTED OTHERWISE. BLANK-OFF-USED PORTION OF WAKE-UP AIR OPENING ON FAN COIL UNIT AS REQUIRED.

SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE "A": BALANCE MANUAL MLD IN 9"x2" S.A. DUCT FOR 3-CFM.
NOTE "C": BALANCE MANUAL MLD IN 9"x2" S.A. DUCT FOR 17 CFM.

H.E.W. PROJECT NO. 7-00380-0

	DATE	2-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER	M-2		
	DRAWN BY			STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS		COMMISSION NUMBER	51109
	CHECKED BY						
	REVISIONS						

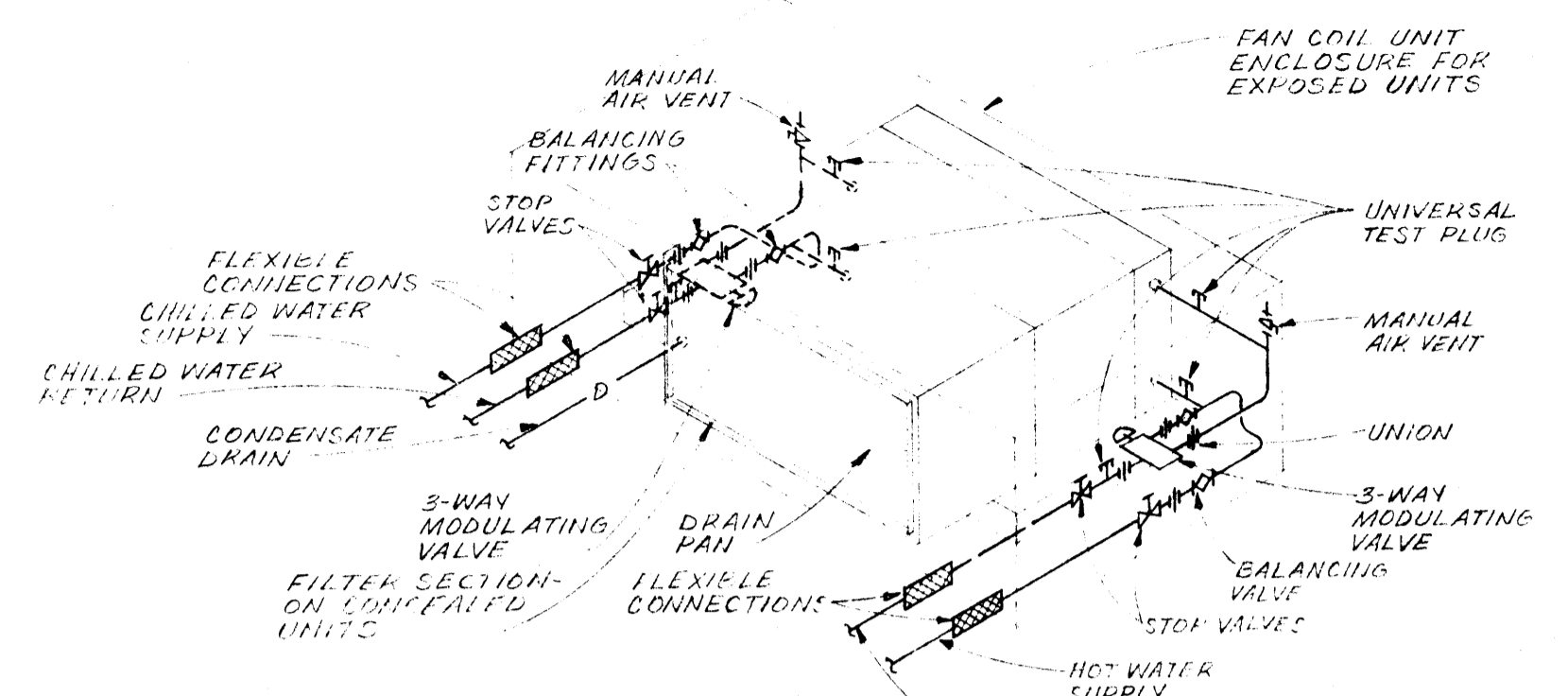
FAN COIL UNIT SCHEDULE

MARK	TYPE	CFM	EXT. S.R. INCHES H2O	COOLING COIL DATA				HEATING COIL DATA				TEMP. M.D. MAKE-UP AIR CFM
				TOTAL COOLING BTU/HR.	SENSIBLE COOLING BTU/HR.	ENT. AIR DB	ENT. AIR WB	HEATING CAP. BTU/HR.	ENT. AIR DB	ENT. AIR WB	GPM	
FCU-1	EXPOSED CAB.	1260	0"	32100	25200	75.0°	63.0°	6.42	21700	70.0°	2.1	112
FCU-2	DO	1050		21100	18000			4.2	15200		1.6	112
FCU-3	DO	840		18200	16000			3.64	13000		1.3	75
FCU-4	DO	1260		28300	26200			5.65	20900		2.1	75
FCU-5	DO	1050		23250	21200			4.65	18500		1.5	75
FCU-6	DO	840		17000	14300			3.4	9200		.9	94
FCU-7	DO	840		15200	13050			3.1	8600		.9	75
FCU-8	DO	630		14400	12200			2.9	7630		.8	75
FCU-9	DO	1260		32100	25200			6.42	18700		1.9	112
FCU-10	DO	420		9222	8797			.92	6000		.6	0
FCU-11	DO	1260		32100	26000			6.42	20800		2.1	131
FCU-12	DO	1050		20800	17700			4.2	12200		1.22	112
FCU-13	DO	840		19000	15900			3.8	10900		1.1	112
FCU-14	DO	1260		32100	26000			6.4	18700		1.9	112
FCU-15	DO	840		16100	13000			3.3	3000		.3	112
FCU-16	CONCEALED	420	.15"	5437	5013			1.7	1400		.14	20
FCU-17	EXPOSED CAB.	1050	0"	22700	19600			4.6	10700		1.1	112
FCU-18	DO	630		12733	11776			2.6	6900		.7	50
FCU-19	DO	840		14200	14000			2.8	6000		.6	0
FCU-20	DO	525		9466	9320			1.9	18767		1.9	0
FCU-21	DO	210		6400	3700			1.3	7000		0.7	15
FCU-22	DO	420		5000	7600			1.6	10774		1.1	20
FCU-23	DO	840		14800	14500			3.0	15400		1.6	25
FCU-24	CONCEALED	330	.15"	6563	6439			1.4	3500		.4	25
FCU-25	DO	330	.15"	6500	5800			1.3	3500		.4	32

FAN COIL UNIT SCHEDULE

MARK	TYPE	CFM	EXT. S.R. INCHES H2O	COOLING COIL DATA				HEATING COIL DATA				TEMP. M.D. MAKE-UP AIR CFM
				TOTAL COOLING BTU/HR.	SENSIBLE COOLING BTU/HR.	ENT. AIR DB	ENT. AIR WB	HEATING CAP. BTU/HR.	ENT. AIR DB	ENT. AIR WB	GPM	
FCU-26	CONCEALED	664	.15"	11500	11000	75.0°	63.0°	2.3	7000	70.0°	.7	0
FCU-27	DO	330	.15"	5800	5200			1.2	2000		.2	34
FCU-28	DO	250	.15"	4400	4000			.9	2000		.2	34
FCU-29	EXPOSED CAB.	315	0"	6500	6200			1.1	7600		1.0	17
FCU-30	DO	315	0"	6000	5800			1.2	14500		1.5	17
FCU-31	CONCEALED	250	.15"	5200	4800			1.1	3000		.3	34
FCU-32	EXPOSED CAB.	315	0"	5500	5000			1.1	6000		.6	17
FCU-33	DO	315	0"	7000	6200			1.4	7500		.75	17
FCU-34	CONCEALED	249	.15"	5500	4900			1.1	4500		.50	17
FCU-35	DO	495	.15"	10000	9400			2.0	4000		.40	0
FCU-36	EXPOSED CAB.	1260	0"	26200	23900			5.3	16000		1.6	132
FCU-37	DO	1050		20600	18300			4.1	10800		1.1	125
FCU-38	DO	420		7000	6600			1.4	10200		1.1	25
FCU-39	DO	1050		21000	18100			4.2	13000		1.2	94
FCU-40	DO	840		16000	13500			3.2	10500		1.1	75
FCU-41	DO	630		15200	12600			3.1	2500		.3	94
FCU-42	DO	1050		25000	20600			5.0	5000		.5	130
FCU-43	DO	1050		24000	21000			4.8	7500		.95	94
FCU-44	DO	1260		25000	21800			5.0	18000		1.8	112
FCU-45	DO	1260		31000	25200			6.1	21000		2.1	132
FCU-46	DO	420		8000	7700			1.6	8200		.9	25
FCU-47	DO	315		6300	4000			1.3	10000		1.0	20
FCU-48	CONCEALED	660	.15"	12900	11300			2.6	12100		1.2	0
FCU-49	EXPOSED CAB.	1050	0"	21000	18000			4.2	13000		1.2	75
FCU-50	CONCEALED	415	.15"	8600	7400			1.8	2500		.03	94
FCU-51	EXPOSED CAB.	1050	0"	23400	19700			4.7	13750		1.4	112
FCU-52	DO	840	0"	13800	15600			4.0	4000		.4	130
FCU-53	CONCEALED	166	.15"	4000	3000			.8	3000		.3	20
FCU-54	DO	420	.15"	10000	8300			2.0	4000		.4	40
FCU-55	EXPOSED CAB.	420	0"	9400	8900			1.9	10000		1.0	30
FCU-56	DO	315	0"	7600	5600			1.5	2000		.2	45

NOTE: COOLING CAPACITIES BASED ON 42° ENT. & 52° LEAVING WATER & MAX. M.D. OF 10 FT. H2O THRU COIL.
HEATING CAPACITIES BASED ON 200° ENT. & 181° LVG. WATER & MAX. F.D. OF 5 FT. H2O THRU COIL.



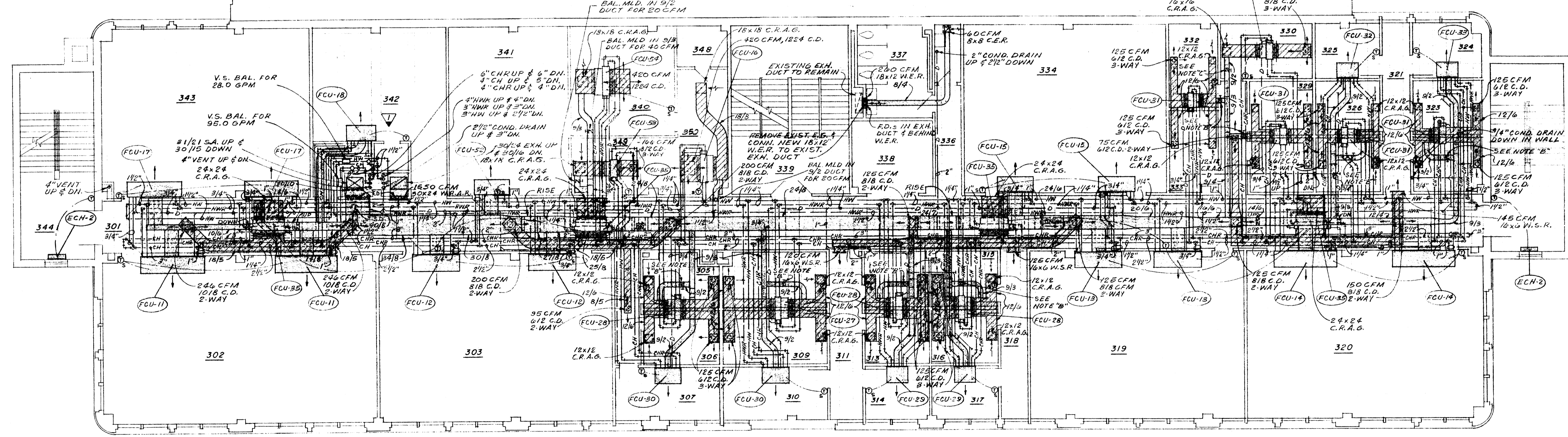
TYPICAL FAN COIL UNIT PIPING DETAIL

NO SCALE

ABSORPTION REFRIGERATION MACHINE SCHEDULE

MARK	TYPE	CAP. TONS	STEAM RATE #/HR/TON MAX.	OPER. STEAM PRESS. PSIG.	ENT. CHILLED WATER TEMP.	LVG. CHILLED WATER TEMP.	CHILLED WATER GPM	CHILLED WATER P.D. FT. H2O	ENT. CONDENSER WATER TEMP.	LVG. CONDENSER WATER TEMP.	CONDENSER WATER GPM MAX.	CONDENSER WATER P.D. FT. H2O	MOTOR DATA	COOLER & CONDENSER PIPING FACTORS
RM-1	STEAM ABSORP.	185	20	8	50.5°	42.0°	526.0	20	85.0°	99.5°	780.0	20	7.5	.0005

REFRIGERATION MACHINE SHALL BE SIZED BASED UPON 8-PSIG STEAM AVAILABLE AT THE CONCENTRATOR FLANGE CONNECTION. 12-PSIG MAX. STEAM PRESSURE WILL BE AVAILABLE AT THE STEAM HEADER. PRESSURE DROP THRU STEAM CONTROL VALVES, ETC., SHALL NOT EXCEED 4-PSIG MAX.



- NOTES:**
- ALL CHILLED WATER & HOT WATER SUPPLY & RETURN RUN-OUTS FROM MAINS TO FAN COIL UNITS SHALL BE 1/2" UNLESS NOTED OTHERWISE.
 - ALL CONDENSATE DRAIN RUN-OUTS TO FAN COIL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
 - ALL BRANCH TAKE-OFFS FROM SUPPLY AIR DUCTS TO FAN COIL UNITS SHALL BE 24"x24" UNLESS NOTED OTHERWISE. BLANK-OFF UNUSED PORTION OF MAKE-UP AIR OPENING ON FAN COIL UNITS AS REQUIRED.

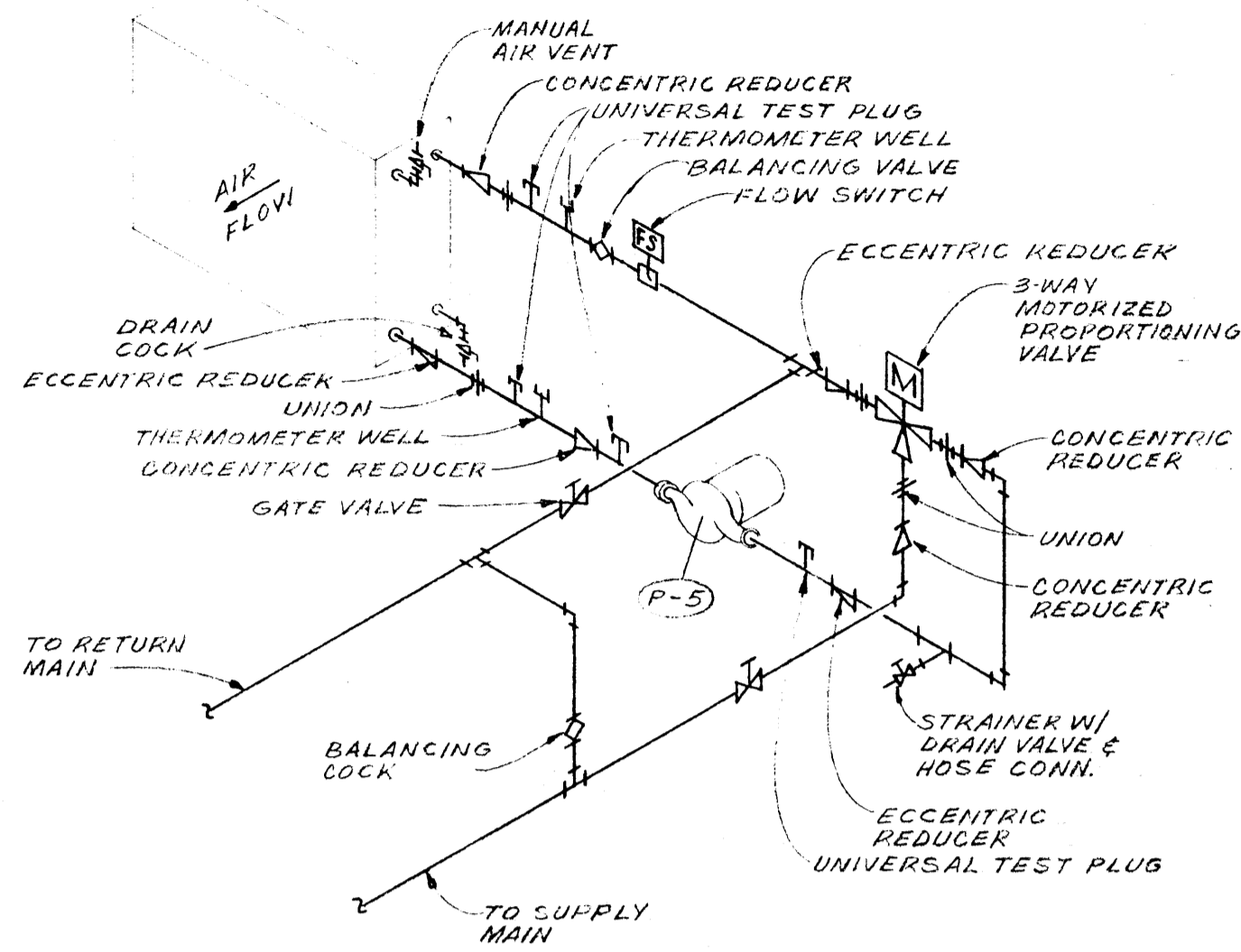
THIRD FLOOR PLAN

SCALE: 1/8"=1'-0"

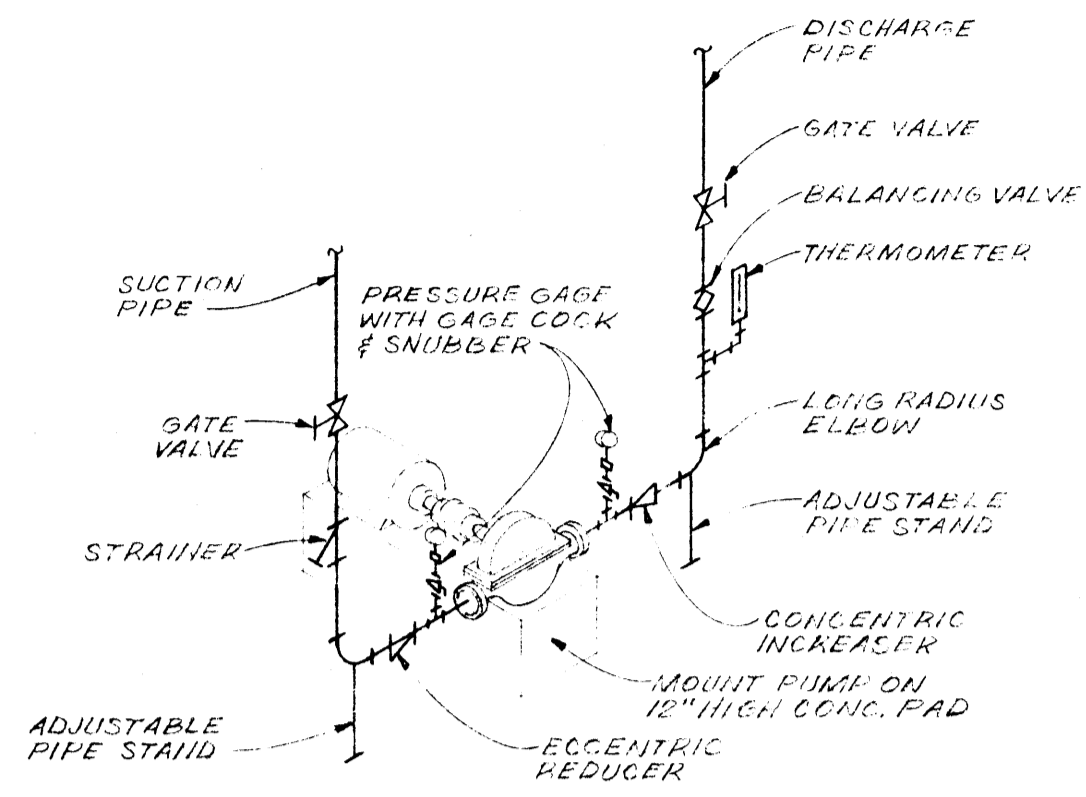
NOTE "B": BALANCE MANUAL MLD IN 9"x2" S.A. DUCT FOR 54 CFM.
NOTE "C": BALANCE MANUAL MLD IN 9"x2" S.A. DUCT FOR 17 CFM.

H.E.W. PROJECT NO. 7-00380-0

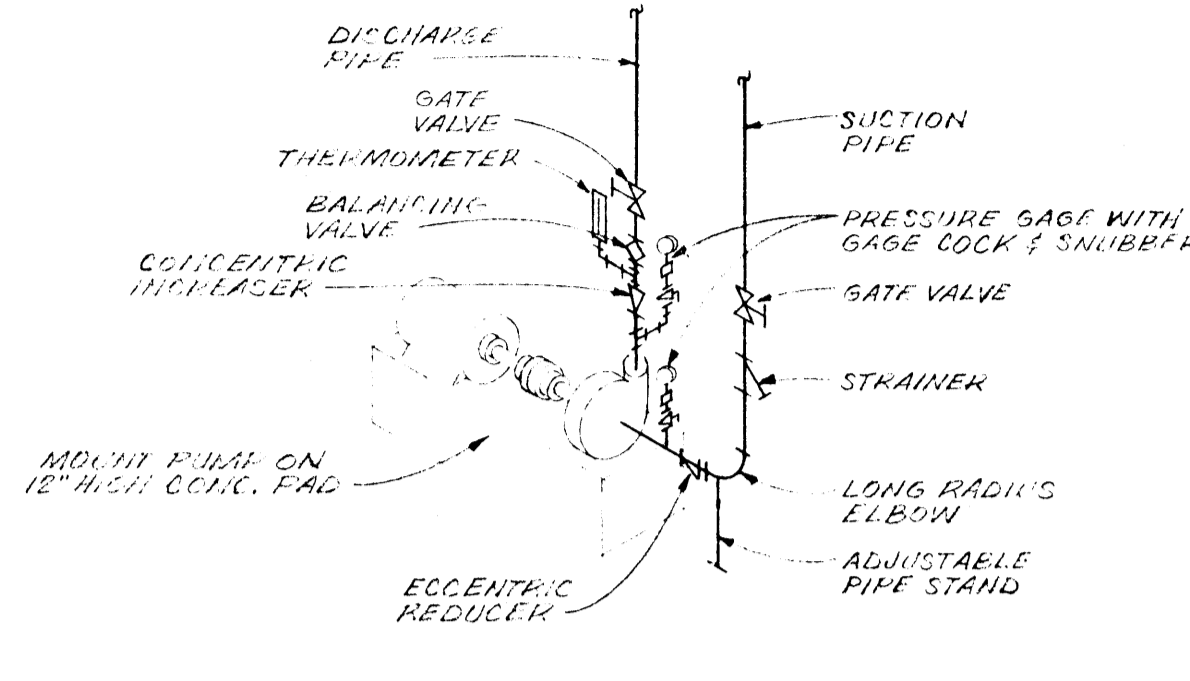
DATE 2-1-67	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	SHEET NUMBER M-3
DRAWN BY		COMMISSION NUMBER 51163
CHECKED BY		
REVISIONS		



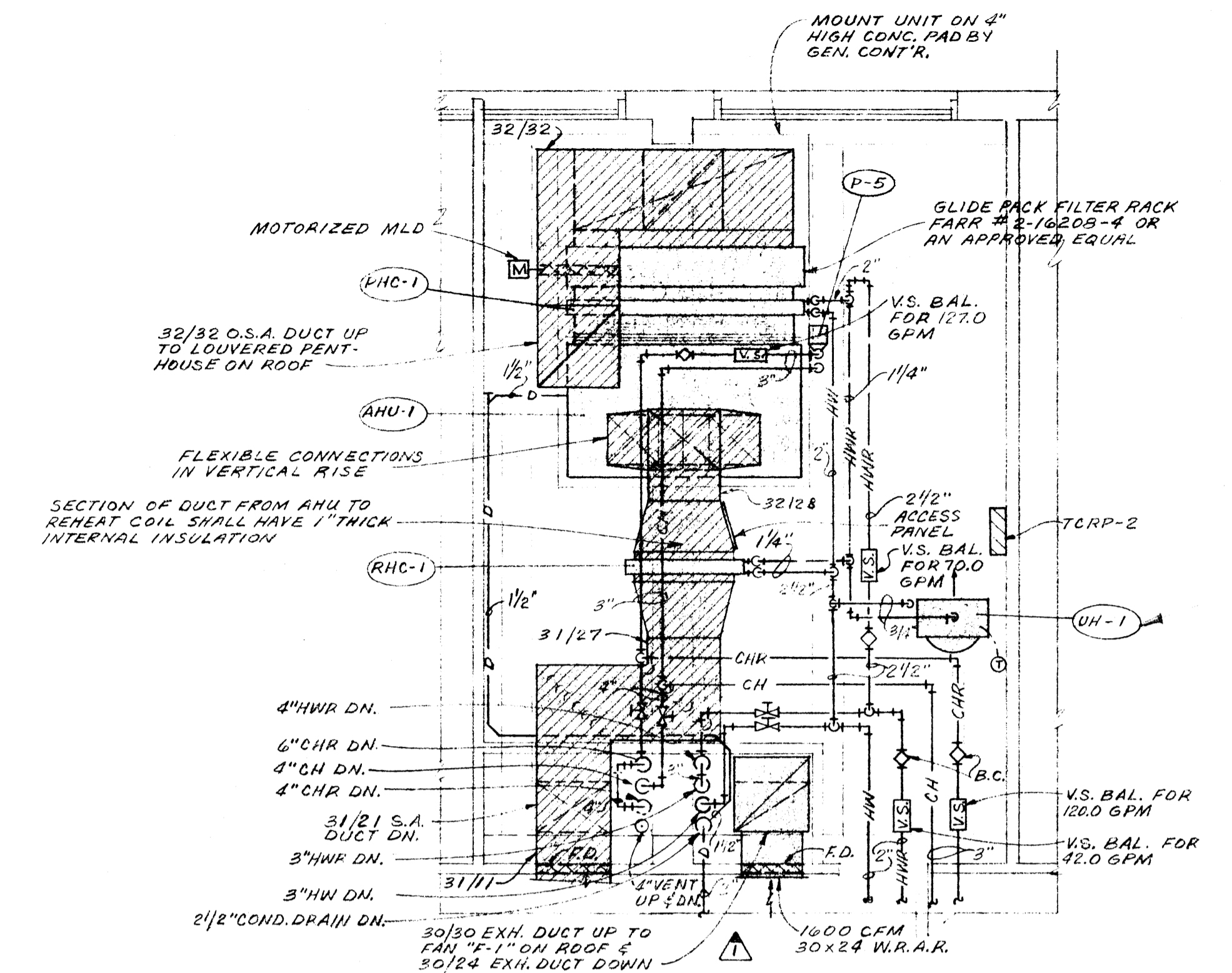
SCHEMATIC PREHEAT COIL PIPING DETAIL
NO SCALE



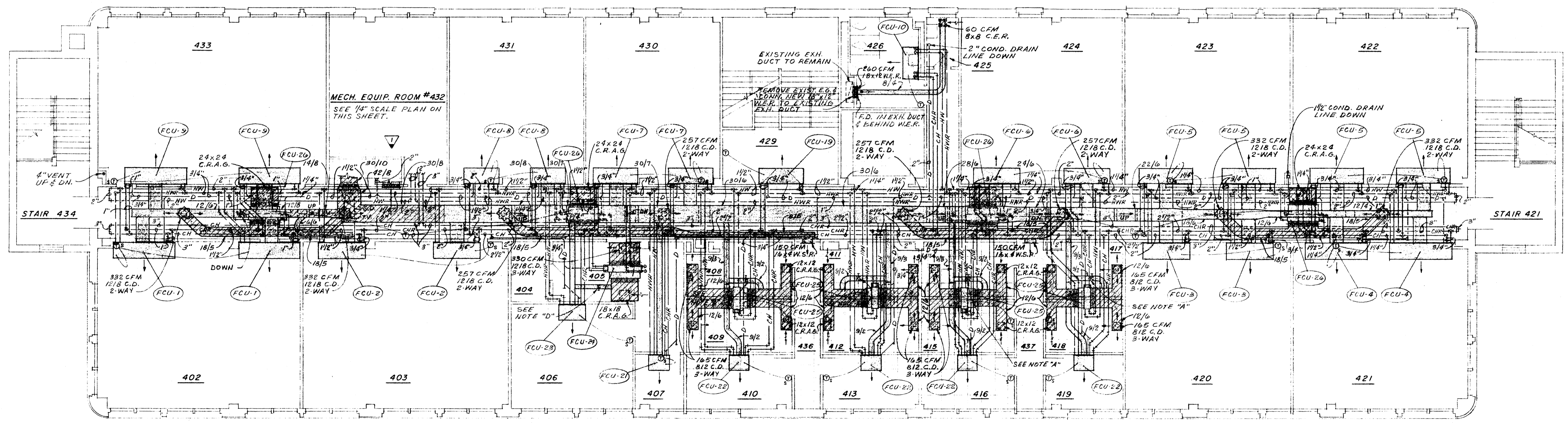
TYPICAL HORIZONTAL SPLIT-CASE PUMP PIPING DETAIL
NO SCALE



TYPICAL END SUCTION PUMP PIPING DETAIL
NO SCALE



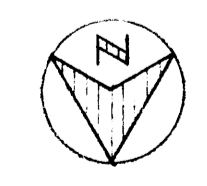
MECHANICAL EQUIPMENT ROOM #432 FLOOR PLAN
SCALE: 1/4"=1'-0"



- NOTES:**
1. ALL CHILLED WATER & HOT WATER SUPPLY & RETURN RUN-OUTS FROM MAINS TO FAN COIL UNITS SHALL BE 1/2" UNLESS NOTED OTHERWISE.
 2. ALL CONDENSATE DRAIN RUN-OUTS TO FAN COIL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
 3. ALL BRANCH TAKE-OFFS FROM SUPPLY AIR DUCTS TO FAN COIL UNITS SHALL BE 2"x2" UNLESS NOTED OTHERWISE. BLANK-OFF UNUSED PORTION OF MAKE-UP AIR OPENING ON FAN COIL UNIT AS REQUIRED.

FOURTH FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTE "A": BALANCE MANUAL MLD IN 5"x12" S.A. DUCT FOR 32 CFM.
NOTE "D": BALANCE MANUAL MLD IN 9"x12" S.A. DUCT FOR 25 CFM.



H.E.W. PROJECT NO. 7-00380-0

DATE	6-1-82	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER M-4
DRAWN BY			
CHECKED BY		STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS 601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS	COMMISSION NUMBER 51168
REVISIONS			

STEAM BOILER SCHEDULE

MARK	TYPE	GAS INPUT BTU/HR.	GROSS OUTPUT BTU/HR.	MIN. SQ. FT. H.T.C. SURFACE ASME	LB/STEAM PER HR.	OPERATING PRESSURE	NET CU. FT. FURNACE VOLUME	BURNER MOTOR DATA
(B-1)	PACKAGED, FIRE TUBE, FORCED DRAFT	4,925,000	5,540,000	827	5,690	12 PSI	130	5 H.P. 200/3/60
(B-2)	SAME AS "B-1"							

BOILER FEED UNIT SCHEDULE

MARK	TYPE	GROSS STORAGE CAPACITY	GPM/PUMP	DISCHARGE PRESSURE PSI	MOTOR DATA
(BFU-1)	DUPLEX	500 GAL.	68.0	35.0	2-3 H.P. 200/3/60

HIGH TEMP. CONDENSATE PUMP SCHEDULE

MARK	TYPE	NET RECEIVER CAPACITY	GPM/PUMP	DISCHARGE PRESSURE PSI	MOTOR DATA
(HCP-1)	DUPLEX	30 GAL.	21.0	35.0	2-1/2 H.P. 200/3/60

HEAT EXCHANGER SCHEDULE

MARK	CAPACITY BTU/HR.	GPM	ENT. WATER TEMP.	L.V.G. WATER TEMP.	MAX. WATER VEL. FT./SEC.	MAX. WATER P.D. IN FT. H ₂ O	MIN. SQ. FT. HEATING SURFACE	STEAM OPERATING PRESSURE
(HX-1)	2,070,000	207.0	180.0°	200.0°	4	5	120	5-PSIG
(HX-2)	300,000	30.0	35.0°	55.0°	4	5	42	5-PSIG

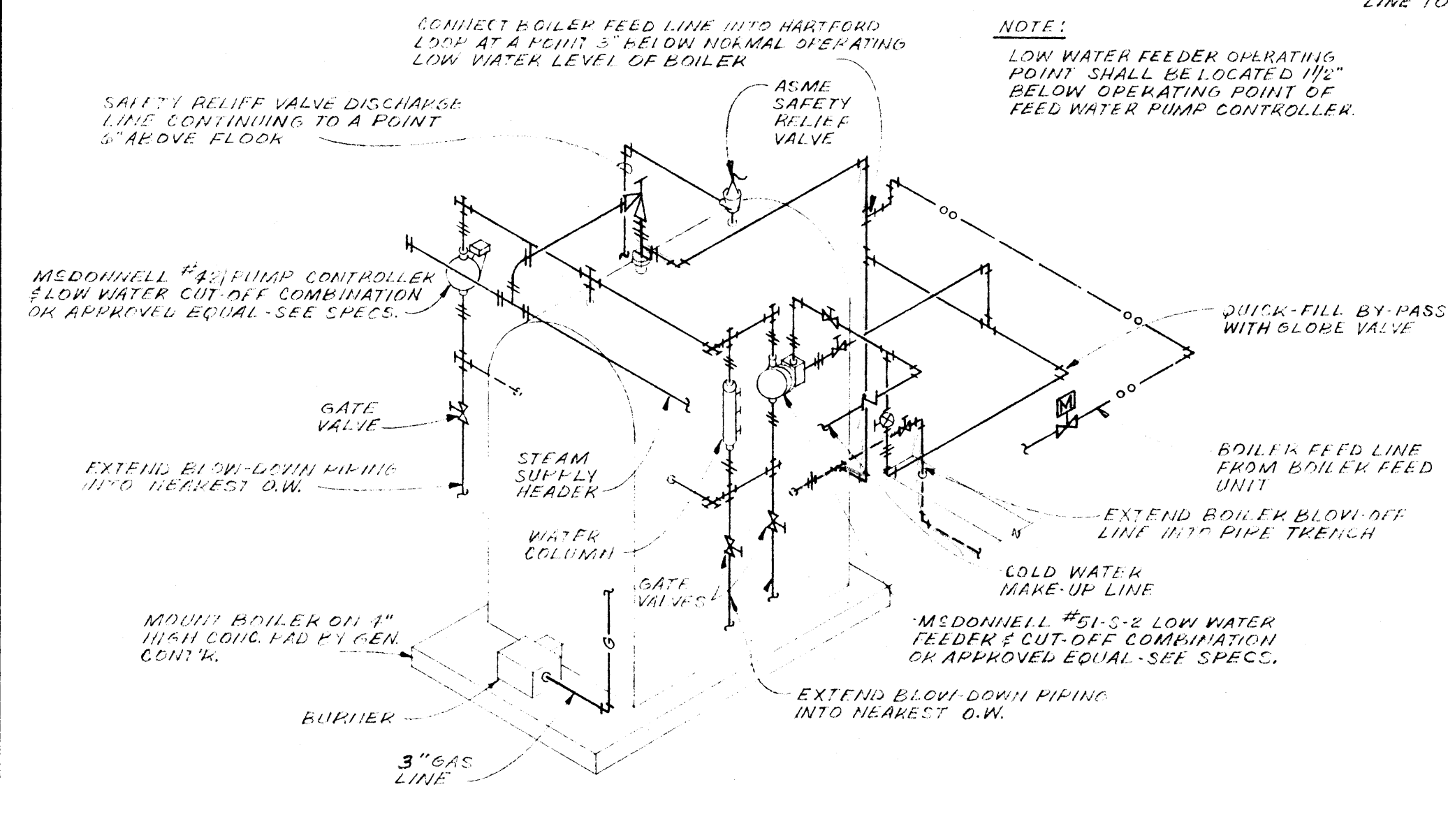
NOTE: SIZE HEAT EXCHANGER USING .0005 FOULING FACTOR

PUMP SCHEDULE

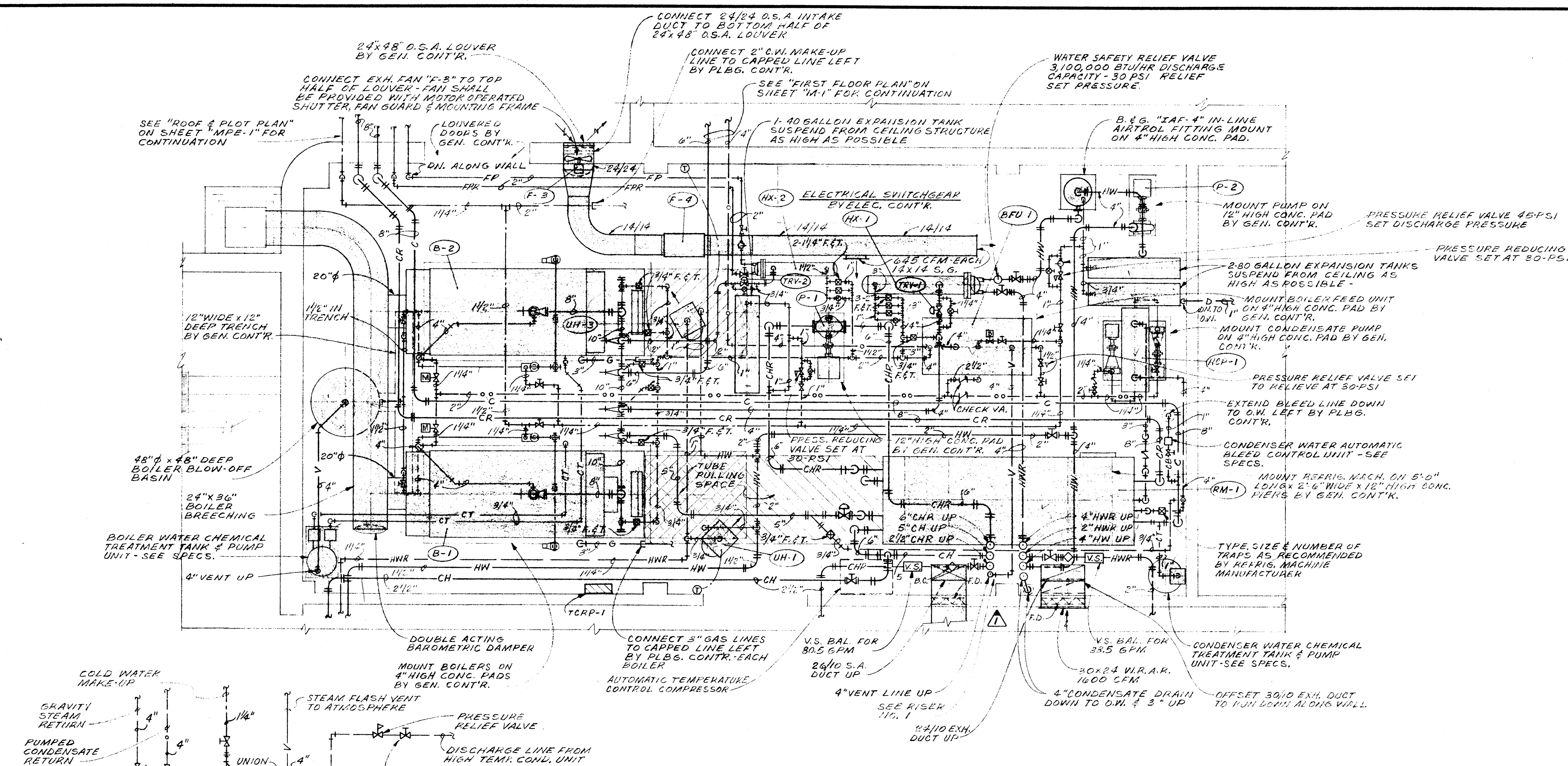
MARK	TYPE	GPM	HEAD IN FT. H ₂ O	MOTOR DATA			SERVICE
				H.P.	RPM	TYPE	
(P-1)	HORIZ. SPLIT CASE DOUBLE SUCTION	525.0	110.0'	25 H.P. 200/3/60	1750	DRIP PROOF	CHILLED WATER
(P-2)	END SUCTION	205.0	85.0'	10 H.P. 200/3/60	1750	—	HOT WATER
(P-3)	VERTICAL TURBINE	780.0	85.0'	20 H.P. 200/3/60	1750	—	CONDENSER WATER
(P-4)	SUBMERSIBLE	30.0	30.0'	3/4 H.P. 200/3/60	1750	—	FREEZE PROTECTION
(P-5)	IN-LINE CIRCULATOR	47.0	27.0'	1/2 H.P. 115/1/60	1750	—	HOT WATER "PHC-1"

COOLING TOWER SCHEDULE

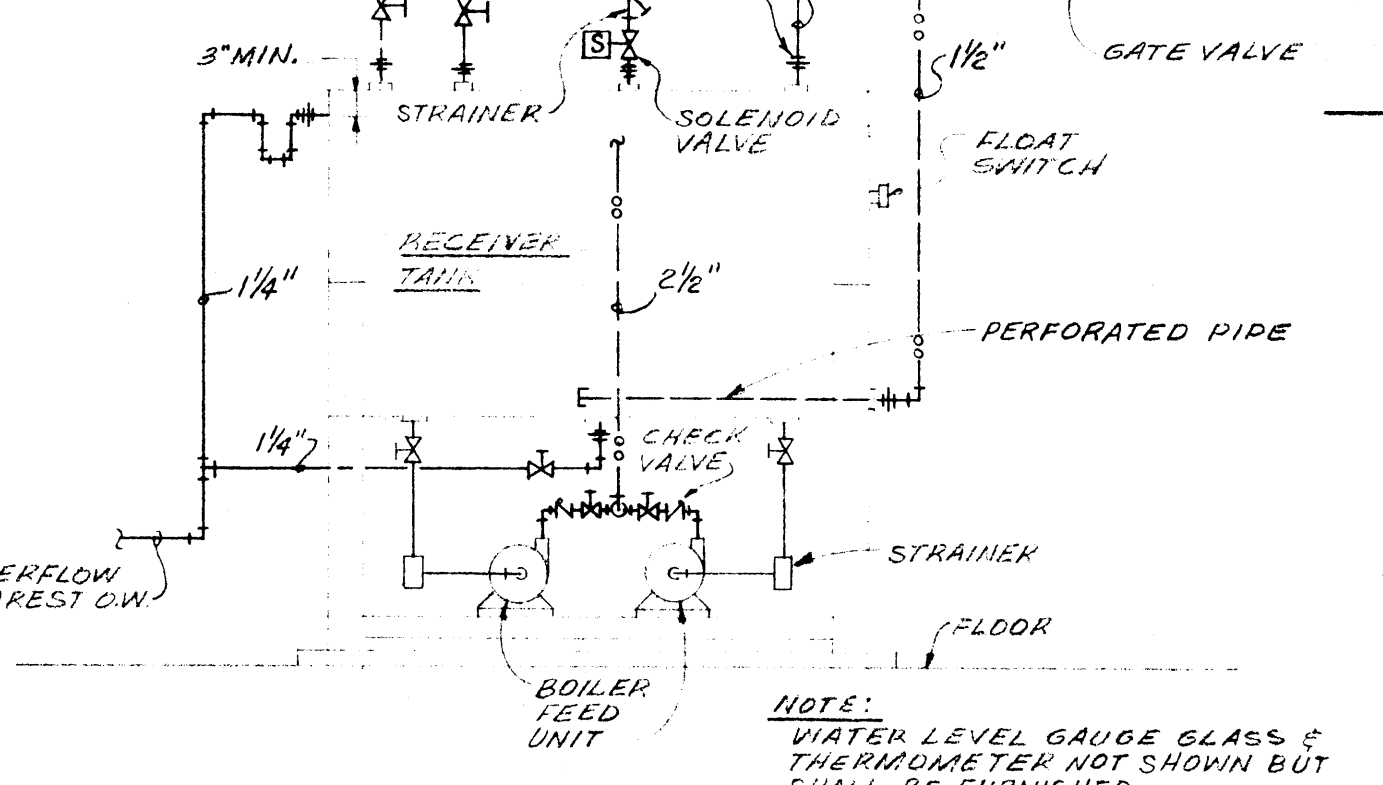
MARK	TYPE	WATER CAP. GPM	ENT. WATER TEMP.	L.V.G. WATER TEMP.	ENT. AIR TEMP. WB	MAX. HEAD IN FT. H ₂ O	FAN DATA RPM DIA.	MOTOR DATA
(CT-1)	DOUBLE FLOW VERTICAL DISCHARGE	780.0	99.5°	85.0°	78.0°	13'	426 96"	20 H.P. 200/3/60



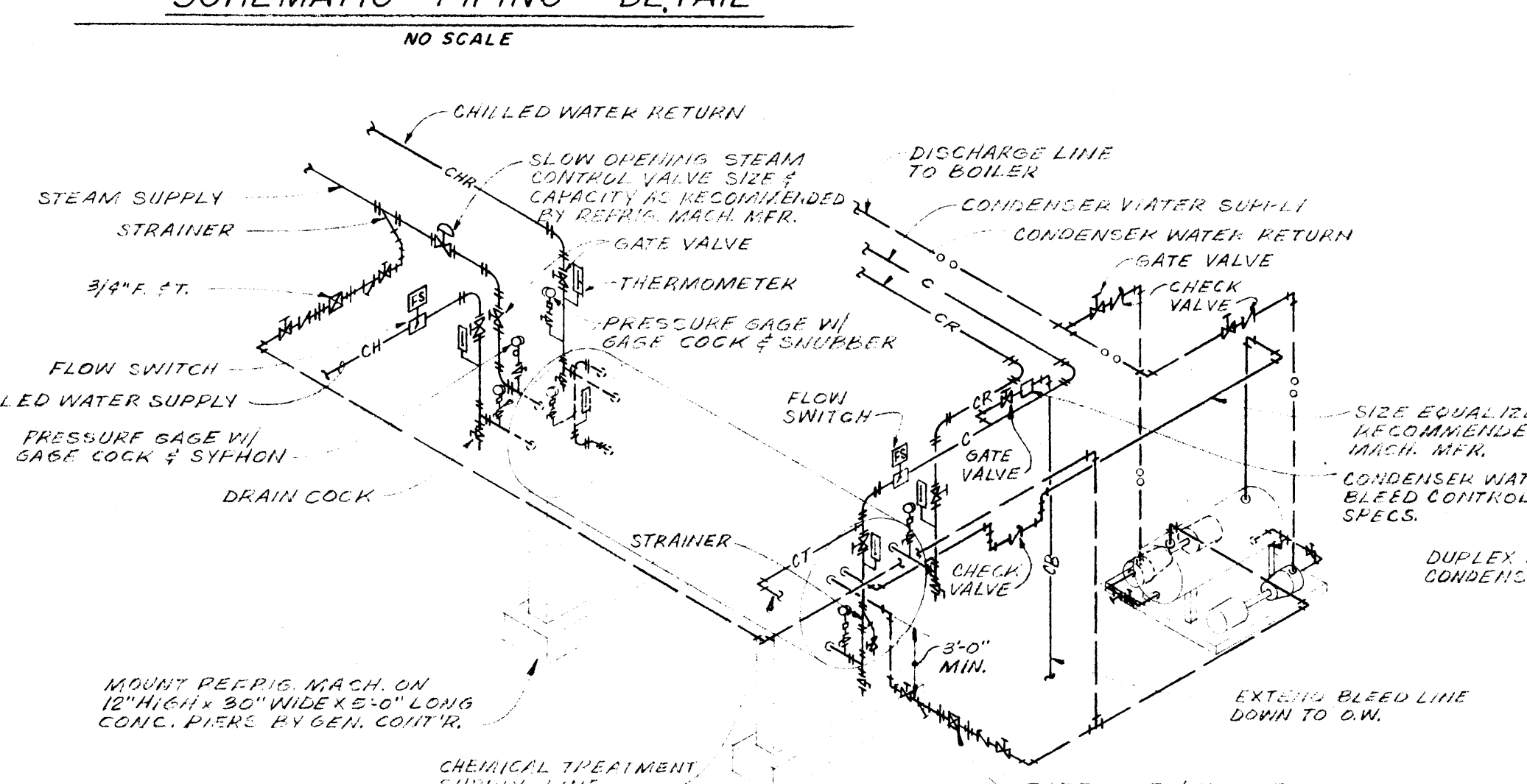
TYPICAL STEAM BOILER SCHEMATIC PIPING DETAIL
NO SCALE



MECHANICAL EQUIPMENT ROOM NO. 135 FLOOR PLAN
SCALE: 1/8" = 1'-0"



BOILER FEED UNIT SCHEMATIC PIPING DETAIL
NO SCALE



SCHEMATIC REFRIGERATION MACHINE PIPING DETAIL
NO SCALE

TEMPERATURE REGULATOR VALVE SCHEDULE

MARK	CAPACITY LBS/STEAM/HR.	INITIAL STEAM PRESSURE (PSIG)	MAX. PRESSURE DROP THRU VALVE (PSIG)	ADJUSTABLE RANGE (TEMP)	SERVICE
(TRV-1)	2,200 #/HR @ 5-PSIG	12	7	190°-210°	HEAT EXCHANGER "HX-1"
(TRV-2)	320 #/HR @ 5-PSIG	12	7	45°-75°	"HX-2"

HOT WATER UNIT HEATER SCHEDULE

MARK	TYPE	CAPACITY BTU/HR.	MAX. CFM	MOTOR DATA	GPM	MAX. WATER P.D. FT. H ₂ O	REMARKS
(UH-1)	HORIZ. DIACH. PROPELLER TYPE	50,000	1,200	1/8 H.P. 115/1/60	5.0	5.0	
(UH-2)	DO	70,000	1,400	1/8 H.P. 115/1/60	7.0	5.0	

NOTE: CAPACITIES BASED ON 65° ENT. AIR @ 200 ENT. WATER.

VENTILATING FAN SCHEDULE

MARK	TYPE	CFM	S.P. IN INCHES H ₂ O	MAX. FAN RPM	MAX. FAN TIP SPEED	FAN DRIVE	MOTOR DATA
(F-1)	ROOF MOUNTED CENTRIFUGAL EXHAUST FAN	4,250	3/8"	650	5200	BELT	1 H.P. 200/3/60
(F-2)	UTILITY SET	1,280	1/4"	850		DIRECT	1/20 H.P. 115/1/60
(F-3)	WALL MOUNTED EXHAUST FAN	1,290	0.1"	840		DIRECT	1/20 H.P. 115/1/60
(F-4)	DUCT MOUNTED INTAKE FAN	1,290	0.4"	1725	5,024	BELT	1/8 H.P. 115/1/60

HEW PROJECT NO. 7-00380-0

DATE	2-1-69	RENOVATION OF SCIENCE BUILDING ARKANSAS STATE UNIVERSITY JONESBORO, ARKANSAS	SHEET NUMBER M-5
DRAWN BY			
CHECKED BY			
REVISIONS			
STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS		COMMISSION NUMBER 51168	
601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS			

PLBG. CONTR. TO CAP EXIST. GAS LINE APPROX. THIS LOCATION

EXIST. GAS LINE TO BE REMOVED BY PLBG. CONTR.

EXIST. GAS LINE TO BE REMOVED

NEW 3" 25 PS.I.G. GAS LINE BY PLBG. CONTR.

NEW 3" GAS MAIN FROM THIS POINT AT PROPERTY LINE TO GAS MAIN BY OTHERS

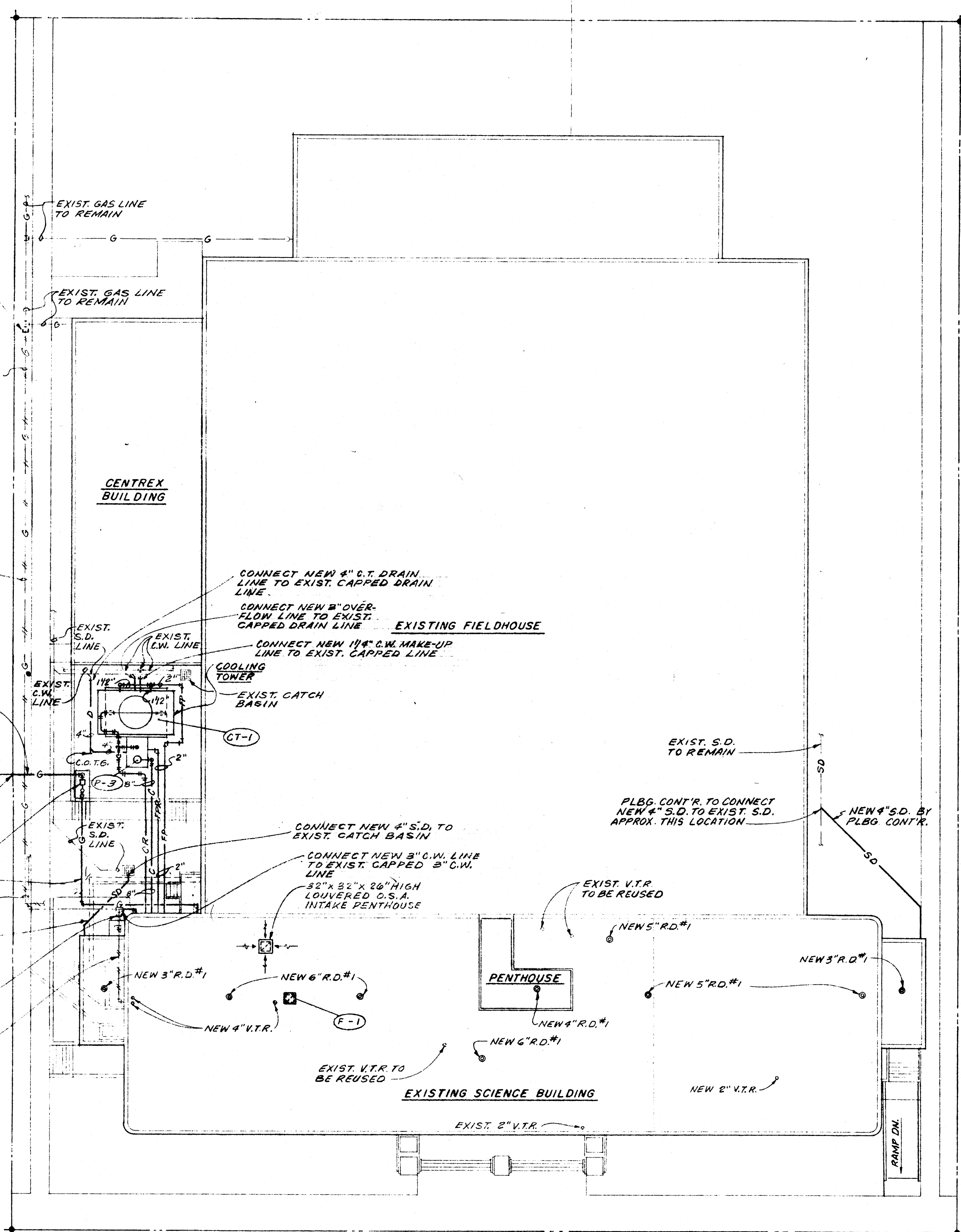
NEW GAS METER & PRESSURE REGULATOR BY PLBG. CONTR. - SEE DETAIL ON THIS SHEET.

NEW 4" S.D. BY PLBG. CONTR.

CAP EXIST. C.W. LINE & REMOVE UNUSED PORTION

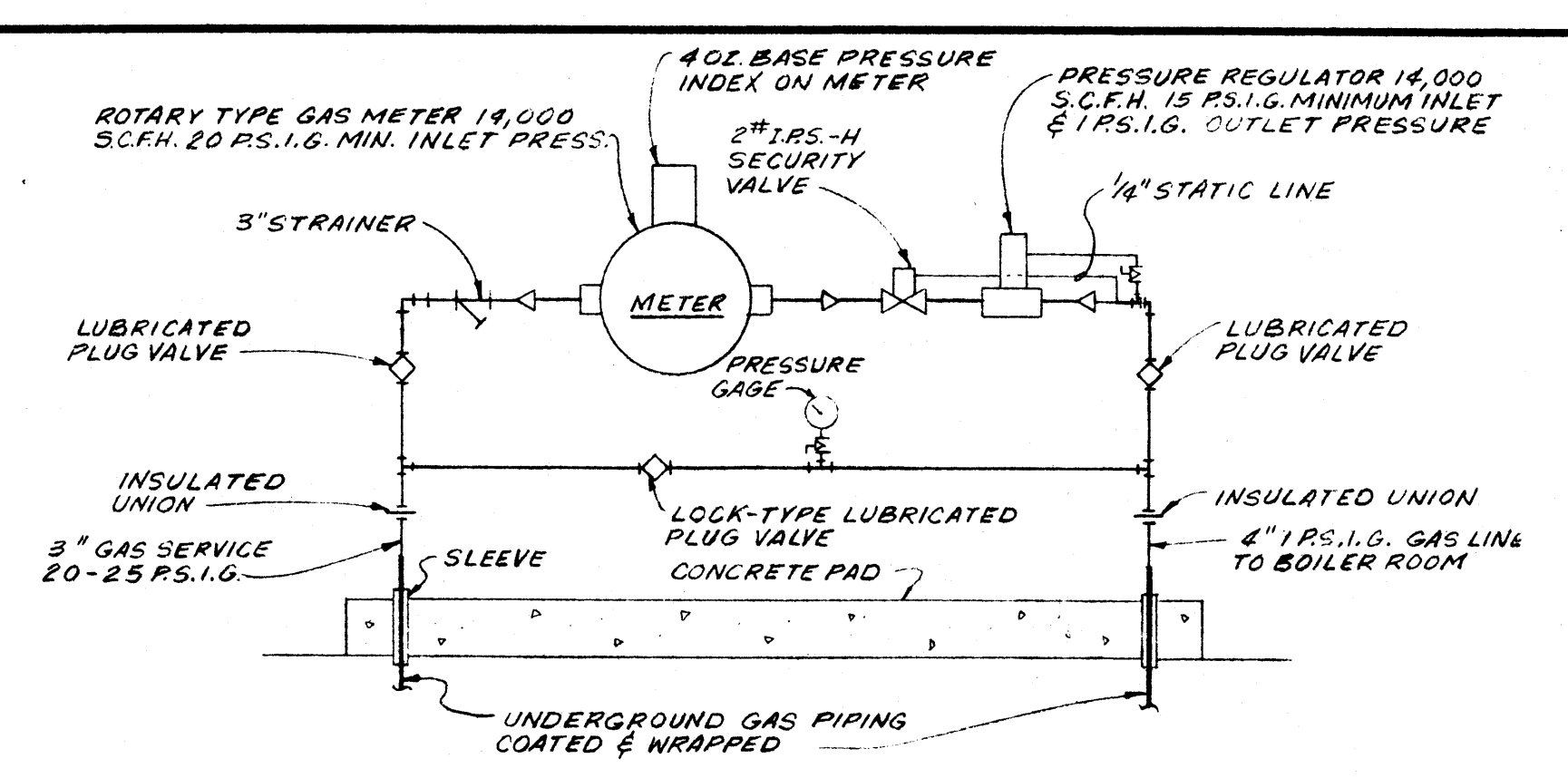
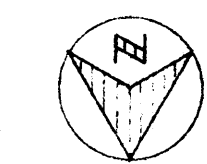
REMOVE

REMOVE



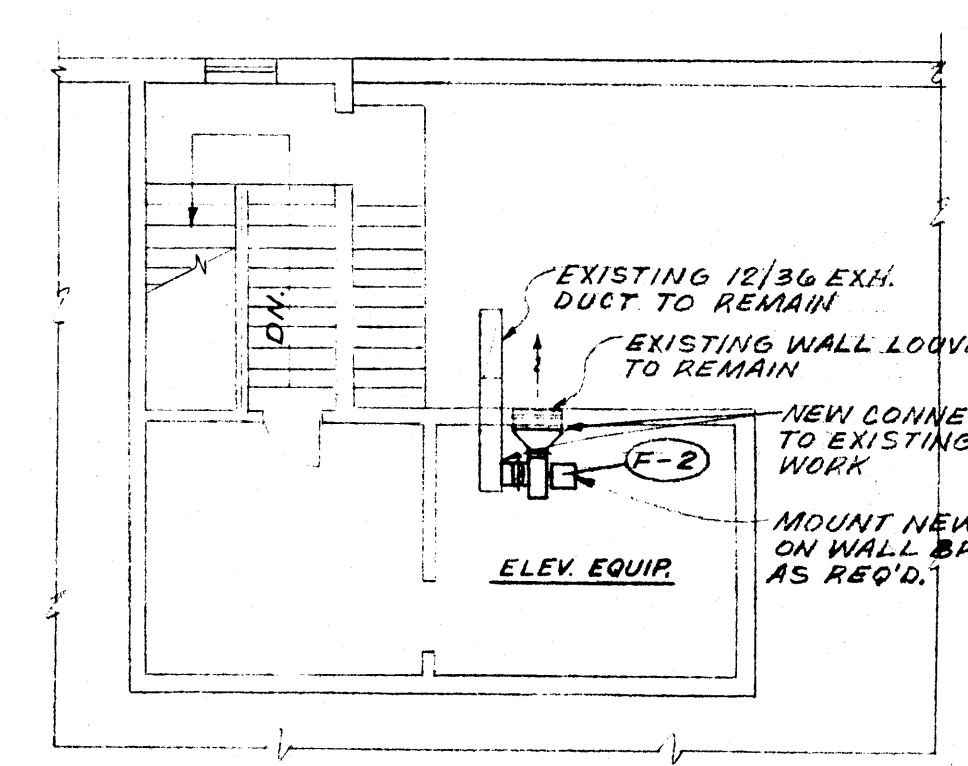
PLOT & ROOF PLAN

SCALE: 1" = 20'-0"



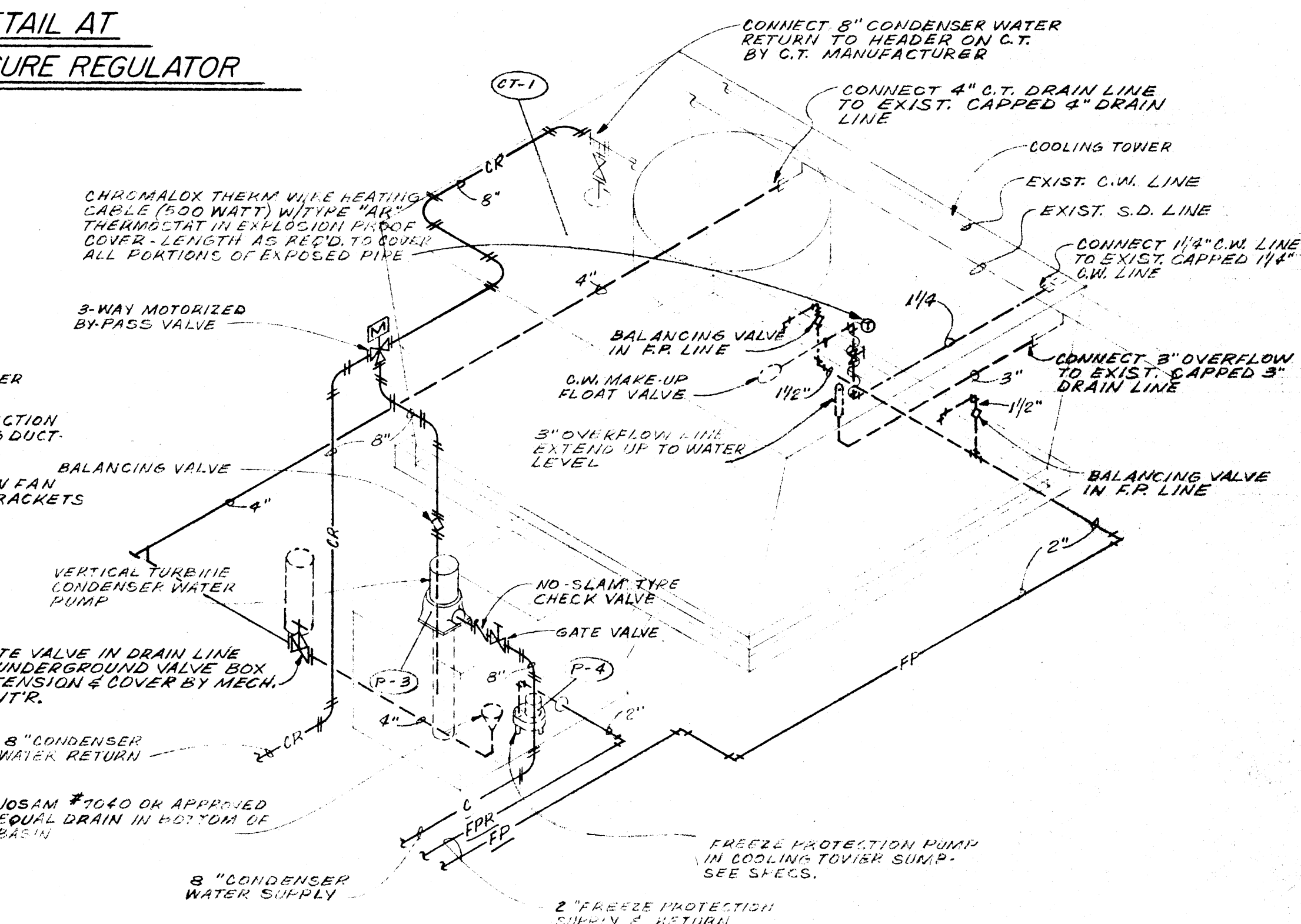
PIPING DETAIL AT GAS METER & PRESSURE REGULATOR

NO SCALE



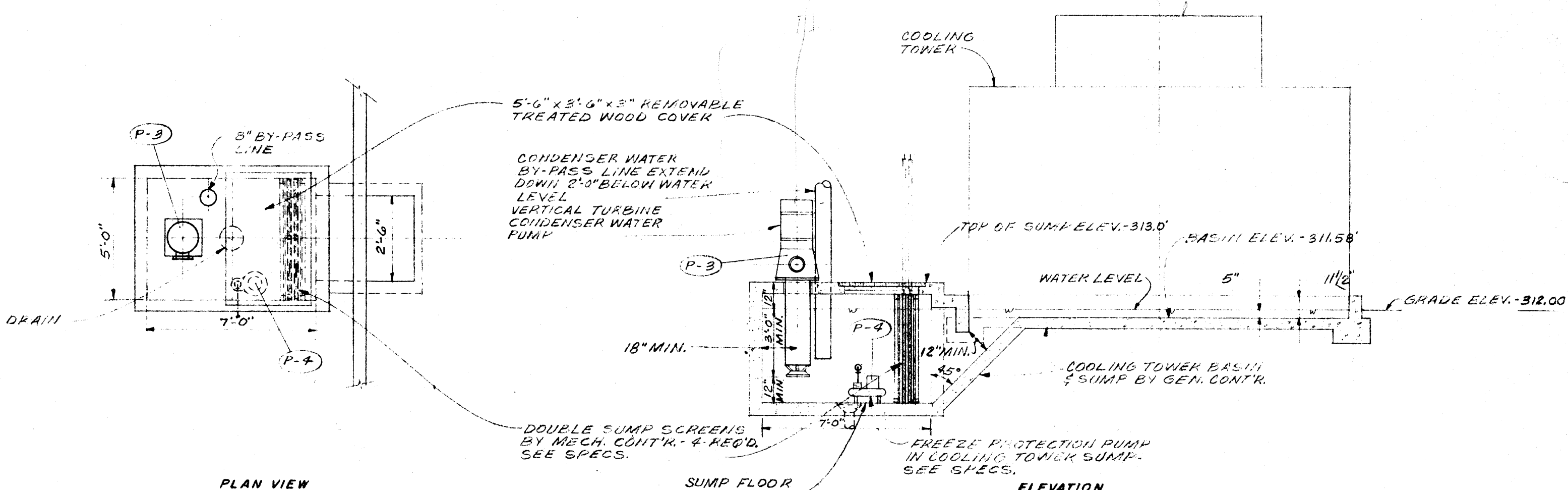
PENTHOUSE FLOOR PLAN

SCALE: 1/8" = 1'-0"



SCHEMATIC COOLING TOWER PIPING DETAIL

NO SCALE

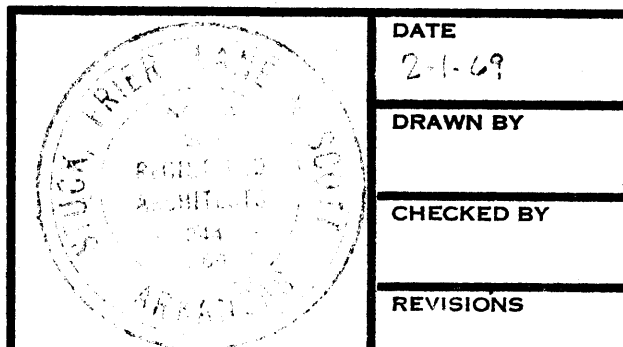


SECTIONAL VIEWS THRU COOLING TOWER BASIN

NO SCALE

HEW PROJECT NO. 7-00380-0

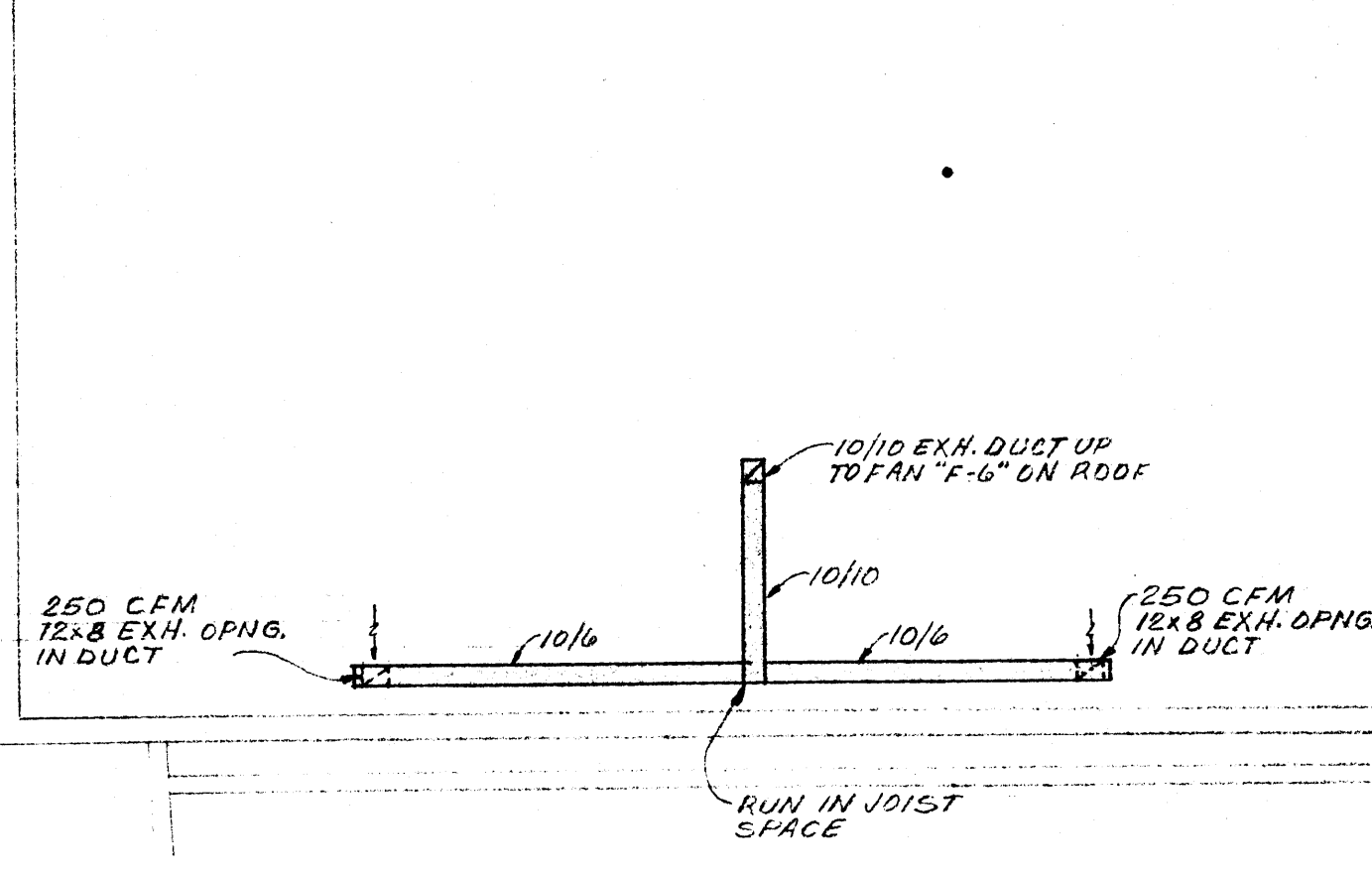
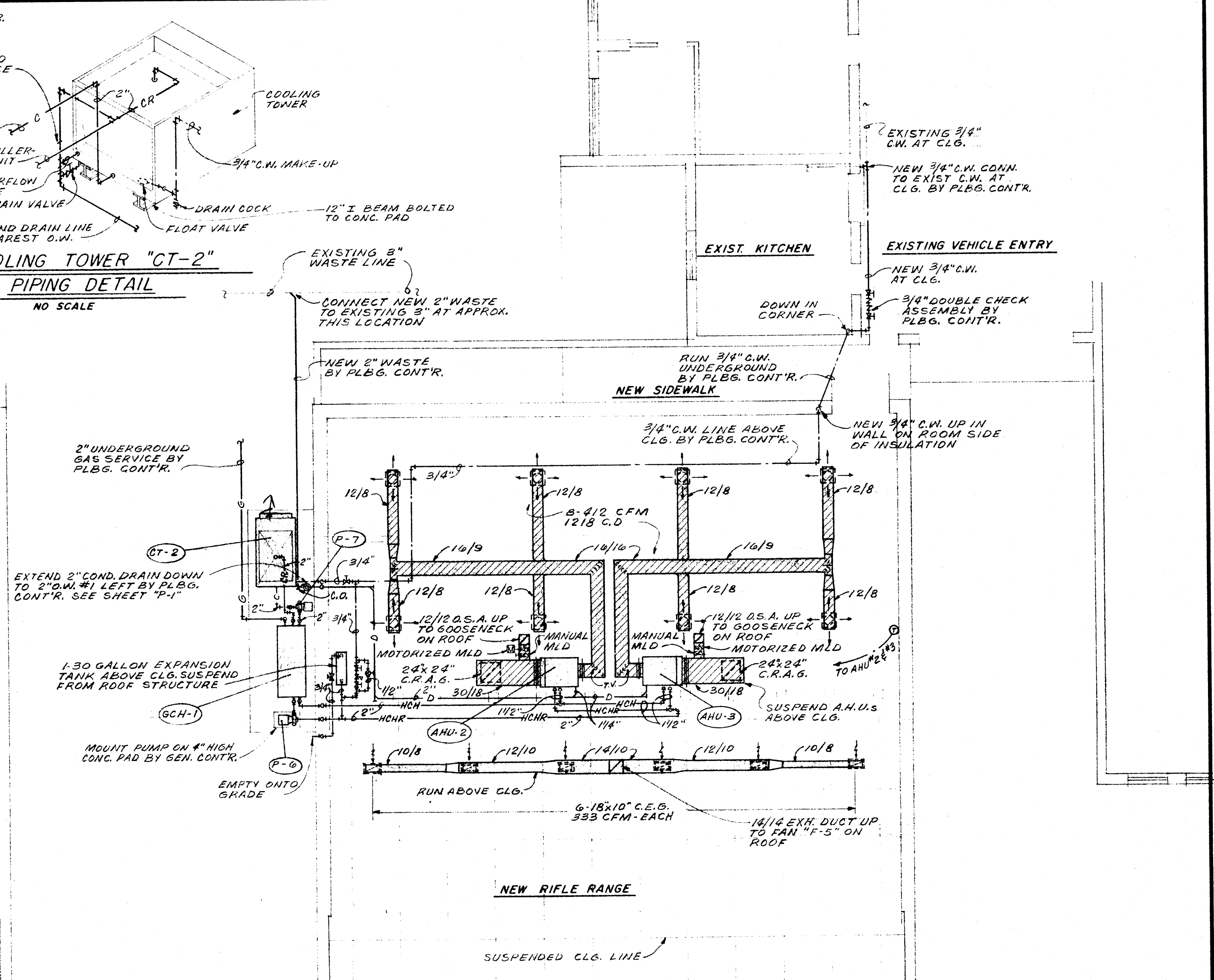
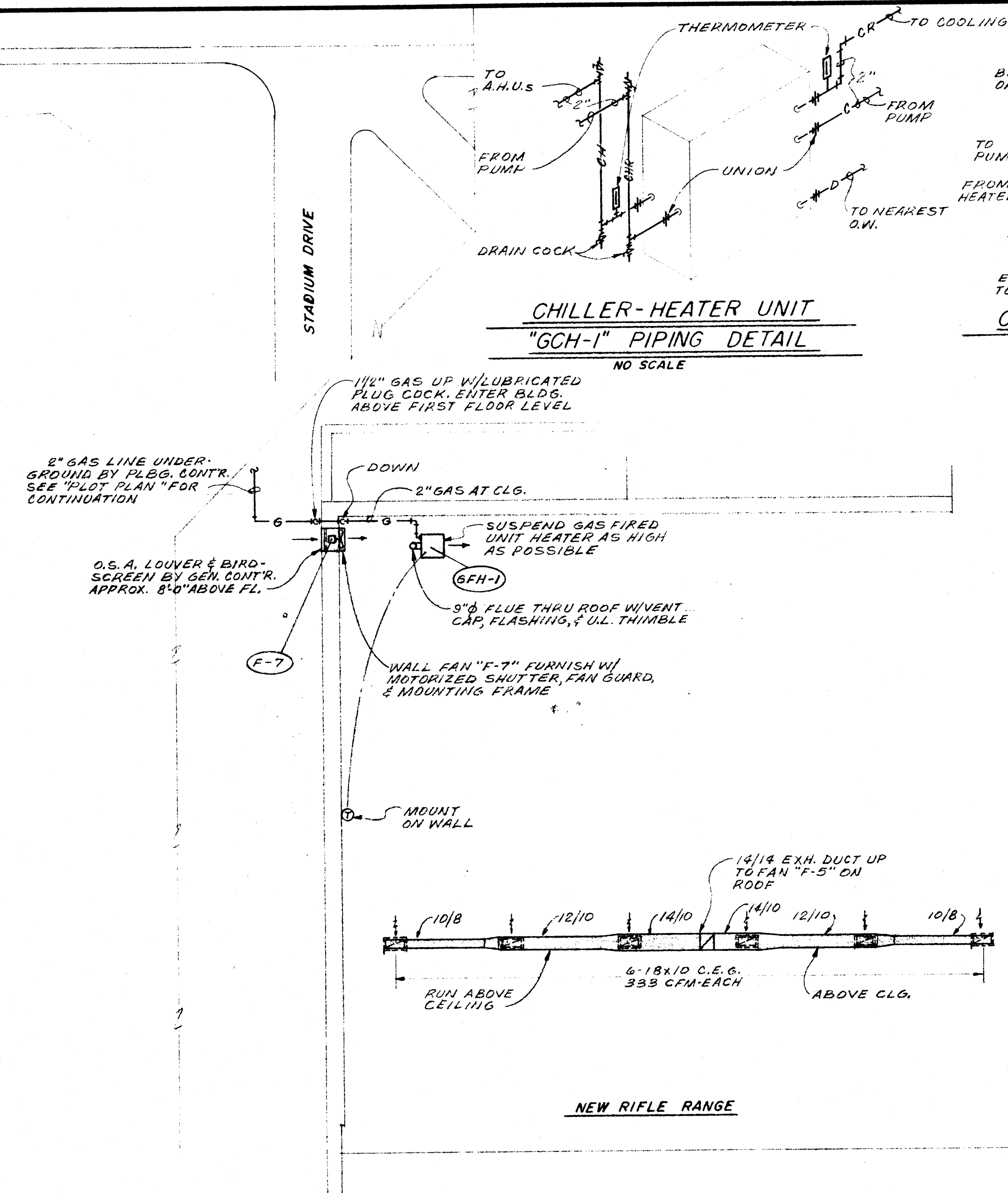
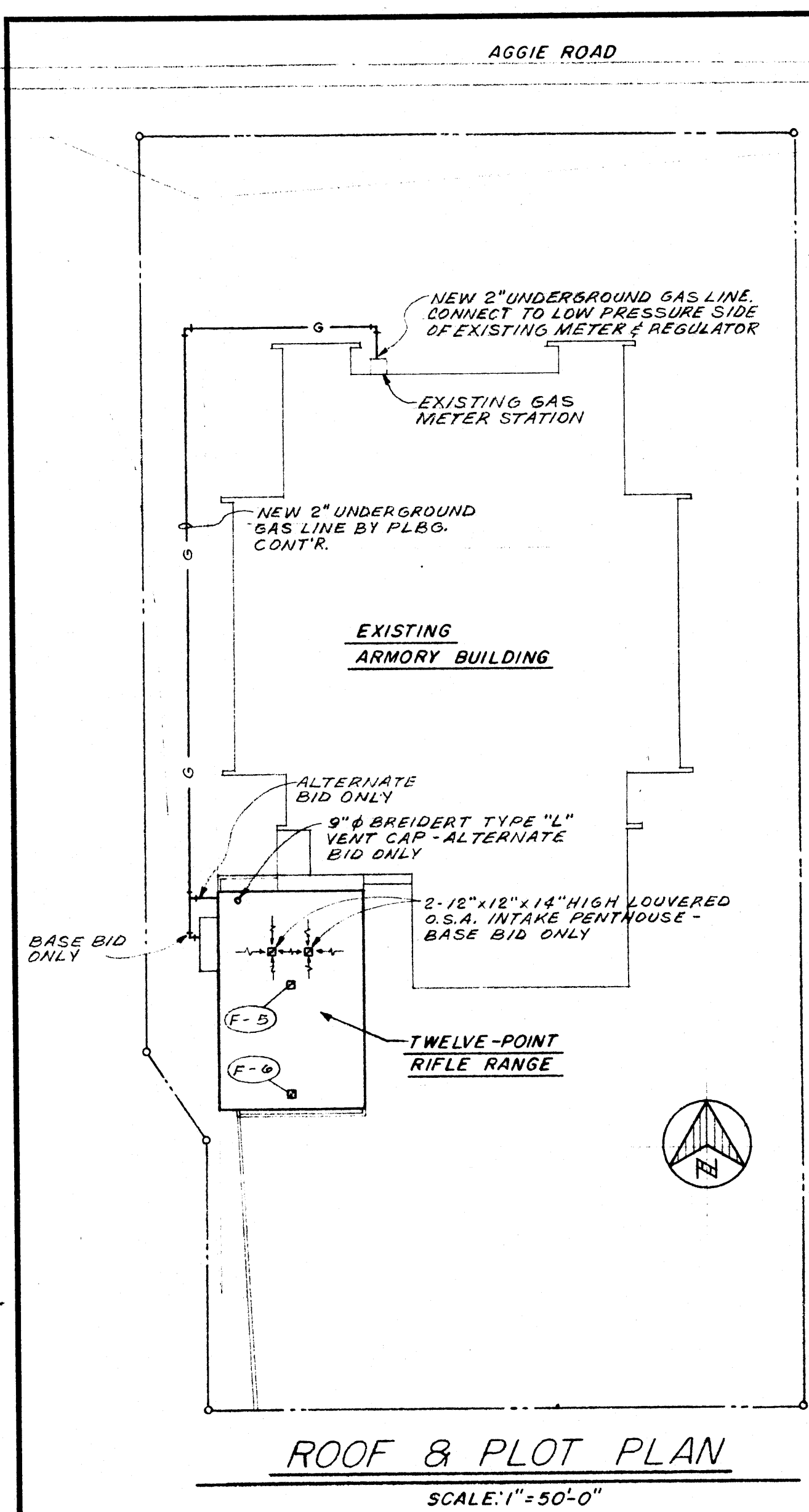
WILLIAM P. THOMPSON
CONSULTING ENGINEERS
5050 FORLAN AV. MEMPHIS, TENN.



RENOVATION OF SCIENCE BUILDING
ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS

SHEET NUMBER
MP-1



VENTILATING FAN SCHEDULE

MARK	TYPE	CFM	S.R. IN INCHES H ₂ O	MAX. FAN RPM	MAX. FAN TIP SPEED	FAN DRIVE	MOTOR DATA
F-5	POWER ROOF VENTILATOR W/TWO SPEED MOTOR	2,000	1/4"	1000	4600	BELT	1/4 H.P. 115/1160
F-6	POWER ROOF VENTILATOR	500	1/8"	900	3400	DIRECT	1/20 H.P. 115/1160
F-7	TWO SPEED WALL MOUNTED INTAKE FAN	2,500	1"	1160	5400	DIRECT	1/2 H.P. 115/1160

AIR HANDLING UNIT SCHEDULE

MARK	TYPE	SERVICE & MOUNTING	TOTAL CFM	MIN. Q.S.A. CFM	MAX. FAN RPM	MAX. OUTLET VEL. FPM	EXT. S.R. IN INCHES H ₂ O	MOTOR DATA
AHU-2	HORIZ. DRAW-THRU	RIFLE RANGE - SUSPEND ABOVE CLG.	1650	750	1492		.53	3/4 H.P. 200/3160
AHU-3		SAME AS "AHU-2"						

DIRECT GAS FIRED CHILLER-HEATER SCHEDULE

MARK	LVG. CHILLED H ₂ O TEMP.	ENT. CHILLED H ₂ O TEMP.	COOLING CAPACITY TONS	CHILLED WATER GPM	GAS INPUT BTU/HR.	CONDENSER WATER GPM	ENT. CONDENSER H ₂ O TEMP.	LVG. CONDENSER H ₂ O TEMP.	HOT WATER GPM	ENT. HOT WATER TEMP.	LVG. HOT WATER TEMP.
GCH-1	44.0°	54.0°	14.6	35.0	360,000	53.0	85.0°	102.8°	35.0	143.5°	160.0°

COOLING TOWER SCHEDULE

MARK	TYPE	WATER CAP. GPM	ENT. WATER TEMP.	LVG. WATER TEMP.	ENT. AIR TEMP. WB	MAX. HEAD IN FT. H ₂ O	FAN DATA RPM DIA.	MOTOR DATA
CT-2	PACKAGE CROSS-FLOW HORIZ. DISCHARGE	53.0	102.8°	85.0°	78.0°	7'	681 30"	1 H.P. 200/3160

GAS FIRED UNIT HEATER SCHEDULE

MARK	TYPE	MAX. CFM @ 70°	AGA OUTPUT BTU/HR	AGA INPUT BTU/HR	MOTOR DATA	REMARKS
GCH-1	HORIZ. DISCHARGE	2950	180,000	225,000	1/8 H.P. 115/1160	

COMB. HEATING & COOLING COIL SCHEDULE

MARK	CFM	HEATING DATA				COOLING DATA				MAX. COIL FACE VEL.					
		BTU/HR CAPACITY	ENT. AIR TEMP.	LVG. AIR TEMP.	GPM	ENT. WATER TEMP.	A.D.P.	TOTAL COOLING TONS	ENT. AIR DB		LVG. AIR WB	ENT. WATER TEMP.	GPM		
AHU-2	1650	144,000	38.2°	119.0°	17.5	160.0°	52.0°	7.1	86.0°	71.5°	58.0°	56.2	44.0°	17.5	550
AHU-3															

PUMP SCHEDULE

MARK	TYPE	SPM	HEAD IN FT. H ₂ O	MOTOR DATA			SERVICE
				H.R.	RPM	TYPE	
P-6	END SUCTION CLOSE COUPLED PUMP	35.0	55.0'	1 1/2 H.P.	200/3160	DRIP PROOF	HOT WATER - CHILLED WATER
P-7	DO	53.0	65.0'	2 H.P.	200/3160	DRIP PROOF	CONDENSER WATER

NOTE: CHILLED WATER P.D. THRU COIL 10' H₂O MAX. HOT WATER P.D. THRU COIL 5' H₂O MAX.

WILLIAM B. THOMPSON CONSULTING ENGINEERS 5000 POPLAR AVE. MEMPHIS, TENN.

DATE: 2-1-69
DRAWN BY:
CHECKED BY:
REVISIONS:

HEW PROJECT NO. 7-00380-0

12 POINT RIFLE RANGE
ARKANSAS STATE UNIVERSITY
JONESBORO ARKANSAS

STUCK, FRIER, LANE & SCOTT, INC., ARCHITECTS
601 SOUTHWEST DRIVE • JONESBORO, ARKANSAS

SHEET NUMBER: **MP-2**
COMMISSION NUMBER: 51168