

**TYP. EXP. JOINT**

**TYP. STAIR-AND RETAINING WALL SECTIONS**  
SCALE: 1/2" = 1'-0"

**INDEX OF DRAWINGS**

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NOTE: DRAWINGS 1A, 1B-1 & 1B-2 ARE FOR REFERENCE ONLY

**ABBREVIATIONS**

ADJ. ADJUSTABLE	DWG. DRAWING	PLAS. PLASTER
A.C. ACID RESISTANT	DEB. DOUBLE STRENGTH	R.D. ROOF DRAIN
A.S. ALUMINUM STRIP	ELEV. ELEVATION	R.O. ROOM
BLDG. BUILDING	ENAM. ENAMEL	RUB. RUBBER
B.D. BOARD	EXIST. EXISTING	R.W.L. RAIN WATER LEADER
C.B. CATCH BASIN	FIN. FINISH	S. SINK
C.B.S. CEMENT	F.E.G. FIRE EXTINGUISHER	S.H. SHEET
C.B.T. CERAMIC TILE	FL. FLOOR	S.E.V. STAIN & VARNISH
C.B.S. CEMENT	F.D. FLOOR DRAIN	TYP. TYPICAL
C.B.S. CEMENT	G.C. GYPSUM	W.D. WOOD
C.B.S. CEMENT	H.P. HIGH POINT	
C.B.S. CEMENT	J.C. JOINT CEMENT	
C.B.S. CEMENT	K.C. KEENE CEMENT	
C.B.S. CEMENT	M.A.T. MARBLE THRESHOLD	
C.B.S. CEMENT	MAX. MAXIMUM	
C.B.S. CEMENT	MIN. MINIMUM	

**SITE PLAN**

**SCIENCE BUILDING**

**CONTRA COSTA JUNIOR COLLEGE**

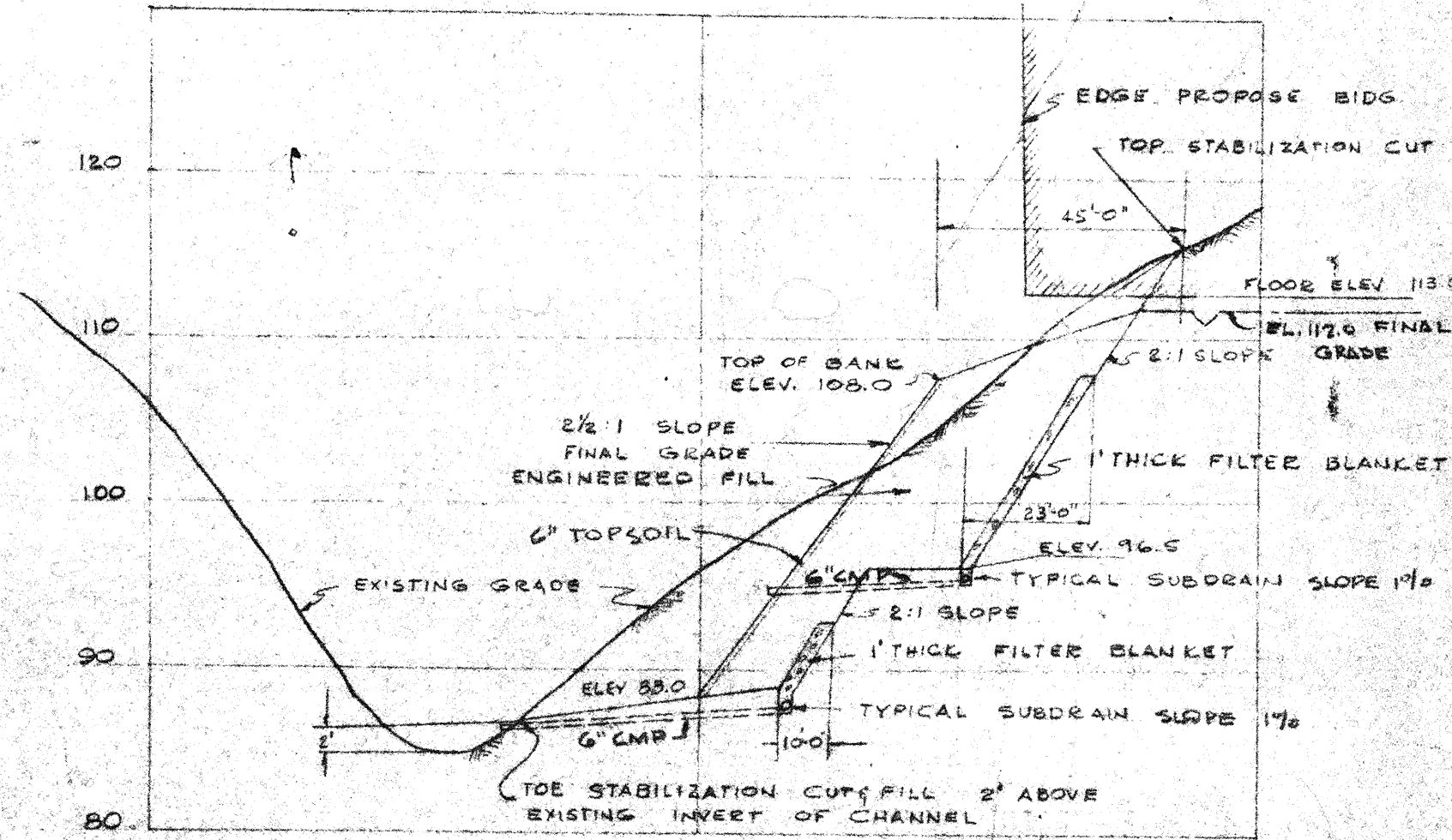
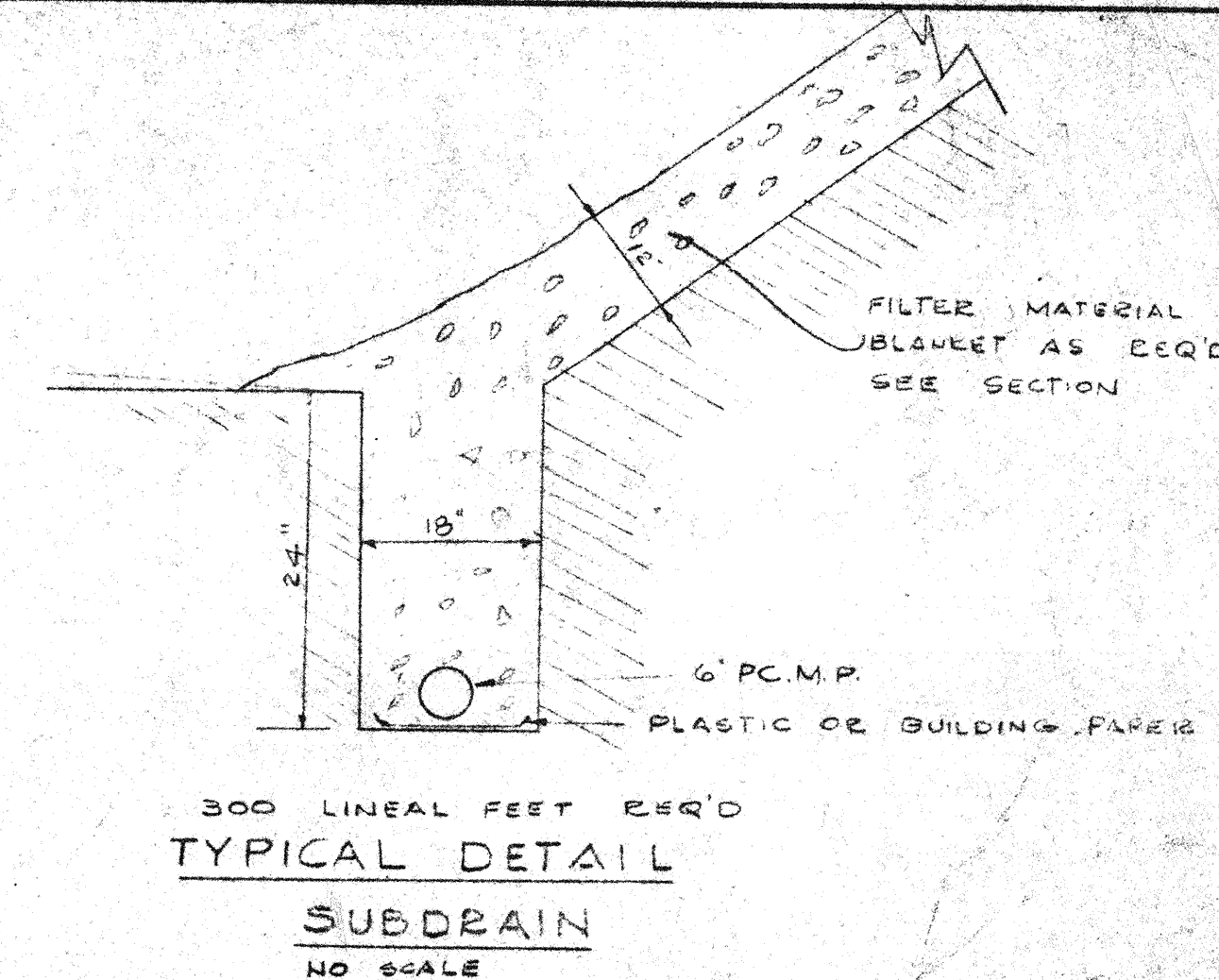
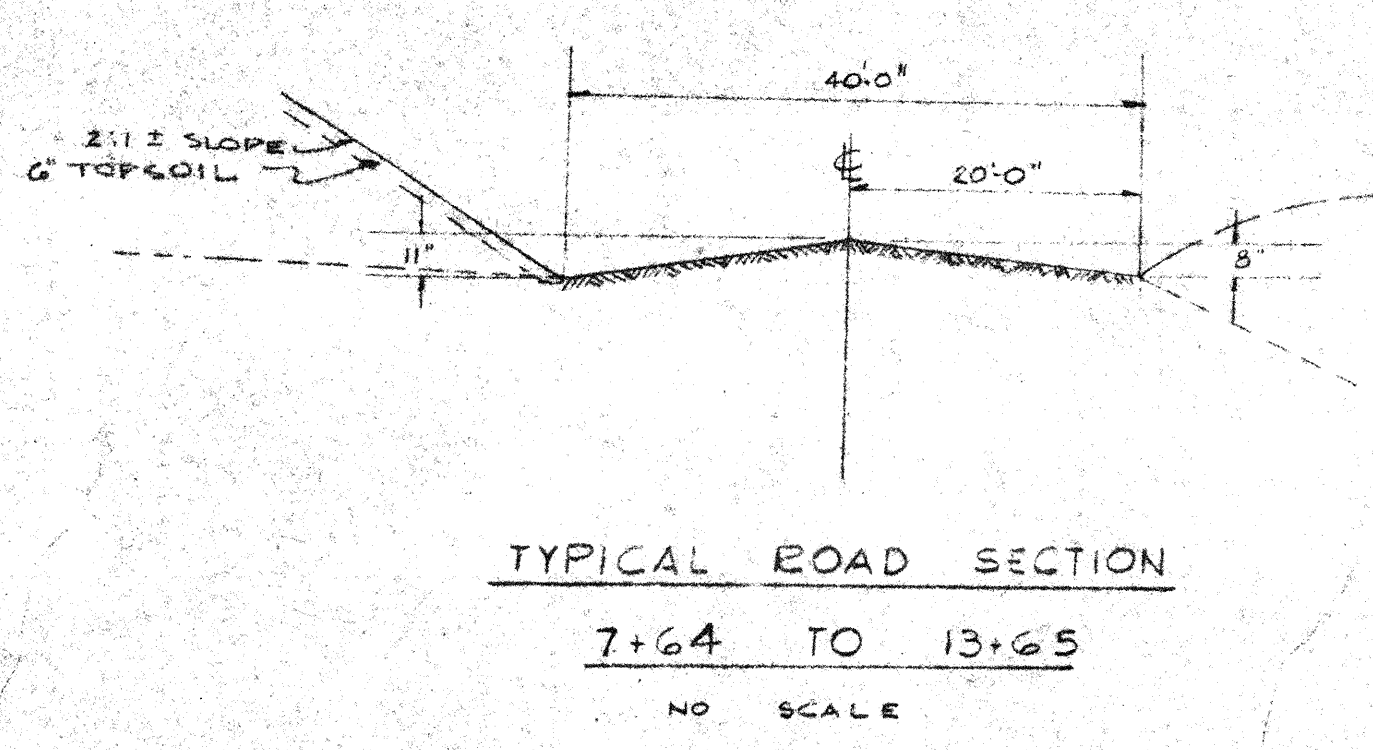
**SAN PABLO CAMPUS**

**CONTRA COSTA JUNIOR COLLEGE DISTRICT MARTINEZ CALIF.**

JOB NO.	DATE	DESIGNED BY	CHECKED BY
58-14	12-21-59	JOHN CARL WARNECKE AIA	CHARLES F. STROTHOFF AIA
DRAWN BY		JOHN CARL WARNECKE AIA	CHARLES F. STROTHOFF AIA
CHECKED BY		JOHN CARL WARNECKE AIA	CHARLES F. STROTHOFF AIA

**1 OF 8**





SECTION A-A

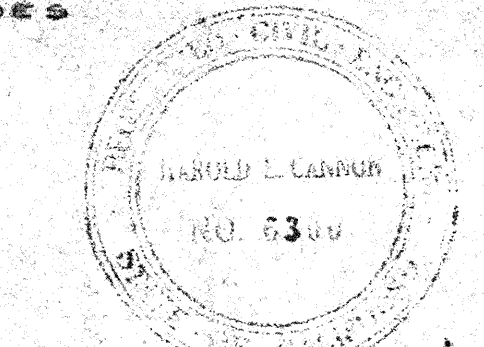
SCALE: HORIZONTAL: 1" = 30'  
VERTICAL: 1" = 10'

LEDGEND

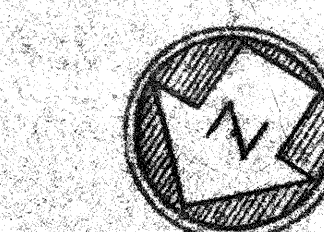
- LIMIT OF WORK
- TOP OR TOE OF BANK
- EXISTING CONTOURS
- FINAL CONTOURS
- EXISTING PAVING TO BE REMOVED

GENERAL NOTES

1. FINAL GRADES SHALL CONFORM TO AND BLEND IN SMOOTHLY WITH EXISTING GRADES
2. FINAL GRADES SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN ESTABLISHED ELEVATIONS OR BETWEEN ESTABLISHED ELEVATIONS AND EXISTING GRADES



WORK COMPLETE IN ACCORDANCE WITH THIS PLAN SEPT. 1959 - BY O.C. JONES & SONS



SCALE: 1" = 30'-0"			
FOR REFERENCE ONLY - NOT IN GENERAL CONTRACT			
REVISED 1/8/52 ADDITIONAL EARTH COR. DITCHES - MISC. ROAD CONTROL CORRECTIONS - CLARITY TOPSOIL AREA LOCATION			
AS-BUILT ROUGH GRADING SCIENCE BUILDING CONTRA COSTA COLLEGE SAN PABLO			
JOB NO. 58-14	GRAHAM & HAYES STRUCTURAL ENGINEERS	JOHN CARL WARNECKE AIA ARCHITECT	DATE 01 DEC 59
DRAWN G.U.	GEORGE K. BROKAW MECHANICAL ENGINEER	CHARLES F. STROTHOFF AIA ASSOCIATE ARCHITECT	PWG NO. 1A
CHECKED C.E.K.	SMITH & GARTHORNE ELECTRICAL ENGINEERS	1115 HAYWARD STREET, SAN FRANCISCO 1950 FINANCIAL CENTER BLDG. OAKLAND	OF 3



# SCHEDULE OF FINISHES

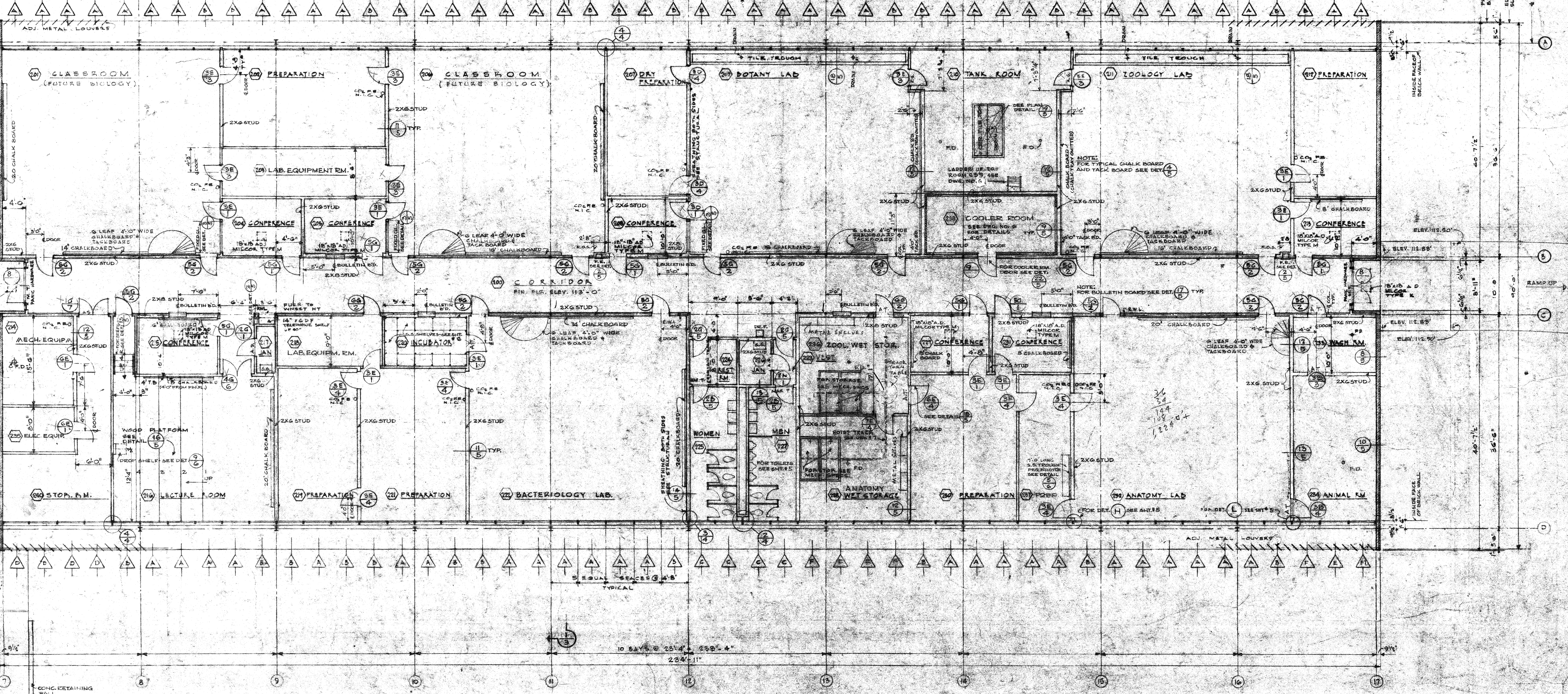
ROOM NO.	ROOM NAME	FLOOR		BASE		WALLS		WAINSCOT		CEILING		TRIM	REMARKS	ROOM NO.	ROOM NAME	FLOOR		BASE		WALLS		WAINSCOT		CEILING		TRIM	REMARKS
		MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN					MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN		
200	CORRIDOR	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"	7'-2" WAINSCOT AT SLOW BURNING	220	INCUBATOR	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		
201	CLASSROOM	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"	EXPOSED BRICK WEST WALL	221	PREPARATION	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		
202	PREPARATION	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		222	BACTERIOLOGY LAB.	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		
203	LAB. EQUIPMENT RM.	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		223	VESTIBULE	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"	7'-2" WAINSCOT AT SLOW BURNING	
204	CONFERENCE	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		224	REST ROOM	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		
205	CONFERENCE	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		225	WOMEN	CONC.	SEALER	RUB	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"	7'-2" WAINSCOT AT SLOW BURNING		
206	CLASSROOM	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		226	JANITOR	CONC.	SEALER	RUB	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"			
207	DRY PREPARATION	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		227	MEN	CONC.	SEALER	RUB	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"			
208	CONFERENCE	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		228	WET STORAGE	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER		
209	BOTANY LAB.	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		229	CONFERENCE	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		
210	TANK ROOM	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	VGDF 5/8"		230	PREPARATION	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		
211	ZOOLOGY	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		231	CONFERENCE	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		
212	PREPARATION	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		232	ANATOMY LAB.	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		
213	CONFERENCE	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		233	WASH ROOM	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER		
214	MECHANICAL EQUIP.	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	VGDF 5/8"	EXPOSED BRICK WEST WALL	234	ANIMAL ROOM	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER		
215	CONFERENCE	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		235	ELECTRICAL EQUIP. RM.	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER		
216	LECTURE ROOM	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		236	ZOOLOGY STORAGE	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER		
217	JANITOR	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	VGDF 5/8"		237	PREPARATION	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		
218	LAB. EQUIPMENT RM.	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		238	COOLER ROOM	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER	CONC.	SEALER		
219	PREPARATION	VNTL	WAX	RUB		1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"		239	EQUIPMENT SERVICE AREA	WOOD	SEALER	WOOD	SEALER	WOOD	SEALER	WOOD	SEALER	WOOD	SEALER		
														240	STORAGE 2A	CONC.	HARD	RUB.	HARD	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	1/2" VDO PAINT	VGDF 5/8"	EXPOSED BRICK WEST WALL	

NOTE: ALL GYP BOARD SHALL BE 1/2" THICK UNLESS OTHERWISE NOTED.  
ALL GYP BOARD ON EACH SIDE OF PARTITIONS FORMING CORRIDOR 220, SHALL BE 5/8" THICK AND SHALL BE CONTINUOUS FROM FLOOR TO ROOF DECK UNLESS OTHERWISE NOTED.  
IN ROOM 223 K.C. PLASTER ON CORRIDOR WALL SHALL BE CONTINUOUS FROM FLOOR TO ROOF DECK.  
ALL EXPOSED WOOD, STEEL, SHEET METAL, CONDUITS AND PIPING SHALL BE PAINTED EXCEPT WHERE FACTORY FINISH IS CALLED FOR.  
FOR SLOW BURNING TREATMENT OF PLYWOOD WAINSCOT SEE DIVISION "PAINTING" OF SPECIFICATIONS.

ITEM	DESCRIPTION	QTY	UNIT
1	1/2" TEMPERED PLY GLASS TYPICAL	10	SQ. YD.
2	ALUMINUM CASES	10	EA.
3	FLUSH WOOD	10	SQ. YD.
4	FLUSH WOOD	10	SQ. YD.
5	FLUSH WOOD	10	SQ. YD.
6	FLUSH WOOD	10	SQ. YD.
7	FLUSH WOOD	10	SQ. YD.
8	FLUSH WOOD	10	SQ. YD.
9	FLUSH WOOD	10	SQ. YD.
10	FLUSH WOOD	10	SQ. YD.

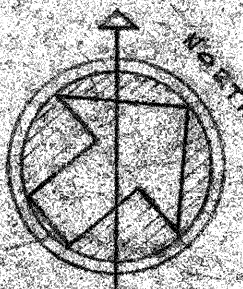
## DOOR SCHEDULE

ALL DOORS 1 1/2" THICK UNLESS OTHERWISE NOTED



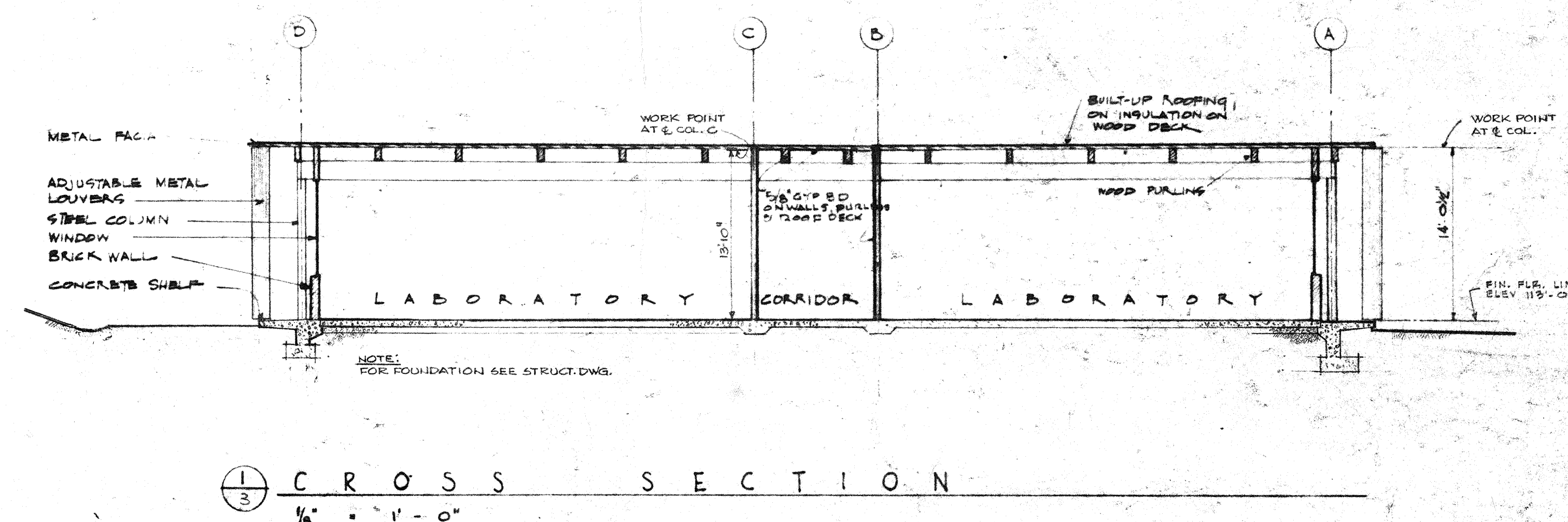
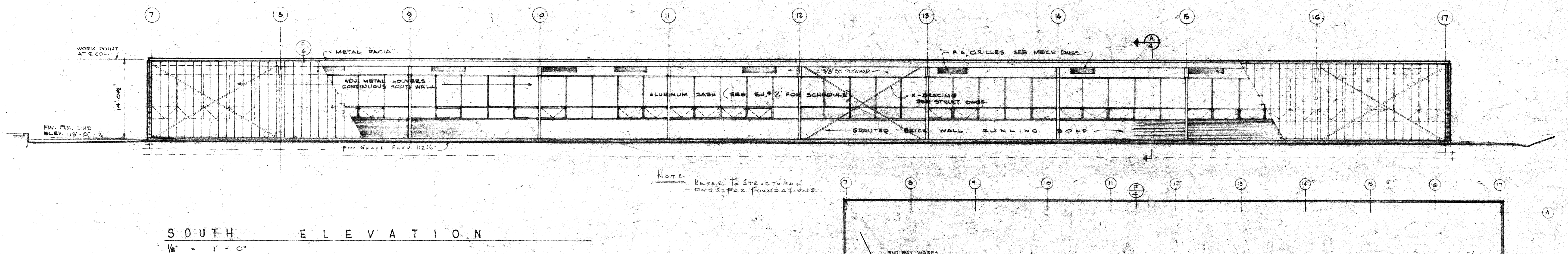
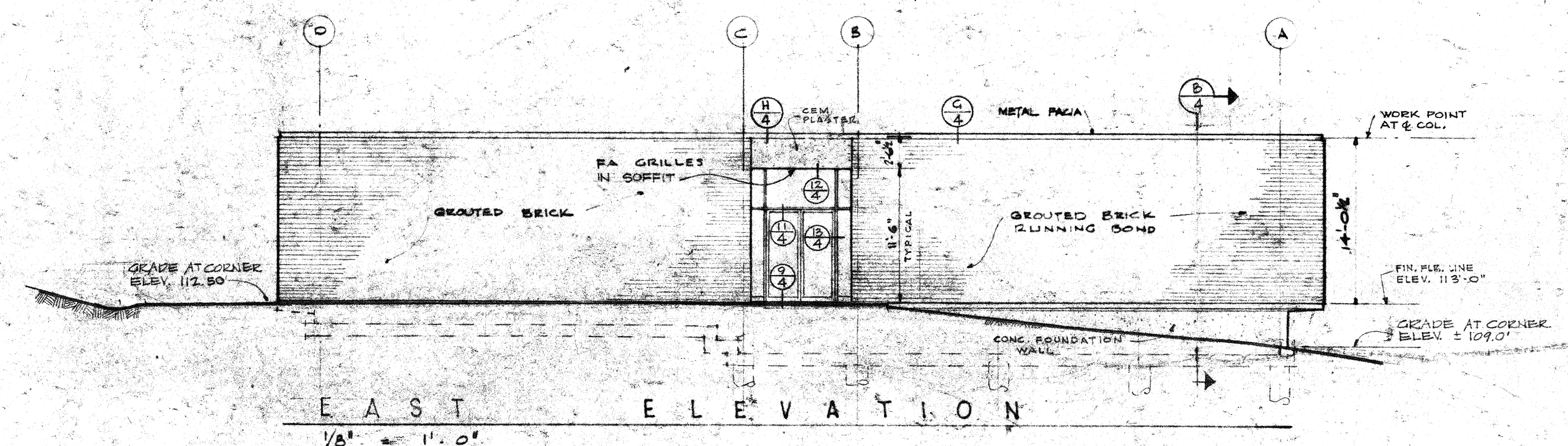
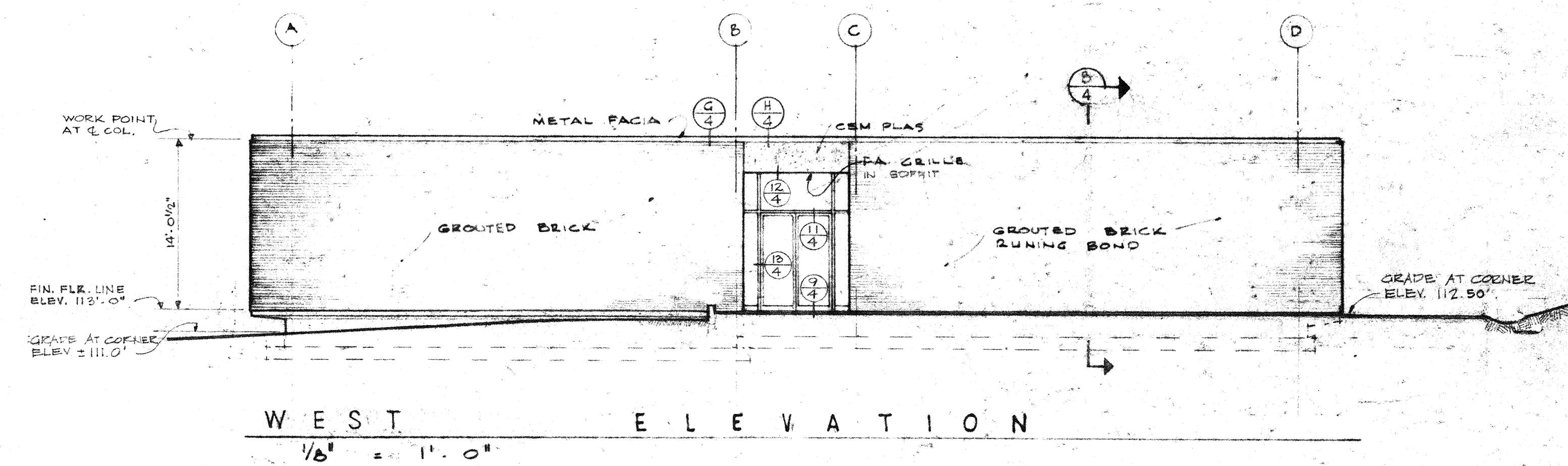
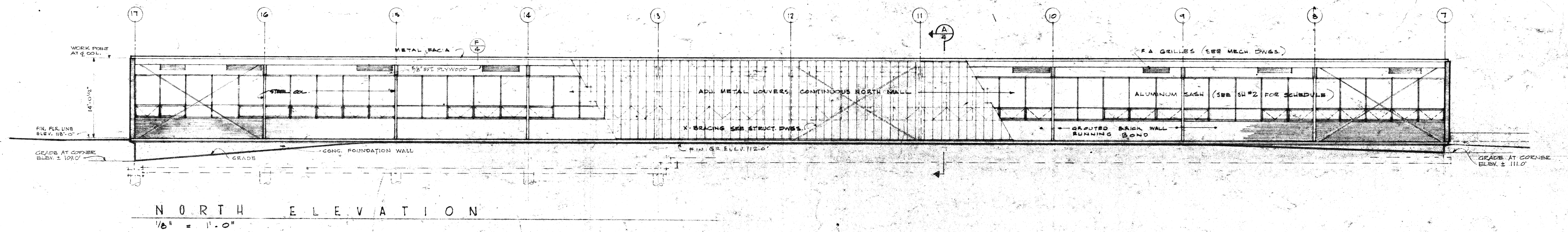
## FLOOR PLAN

SCALE 1/8" = 1'-0"  
NOTE: ALL STUDS SHALL BE 2"x4" @ 16" O.C. UNLESS OTHERWISE NOTED.  
ALL PARTITION WALLS SHALL BE 1/2" VDO @ 16" O.C. UNLESS OTHERWISE NOTED.  
ALL CLAS. 9'-0" HIGH SHALL BE TYPED DOWN WITH 2"x4" @ 16" O.C.  
ALL DIMENSIONS ARE TO STUD OR C.O. UNLESS OTHERWISE NOTED.

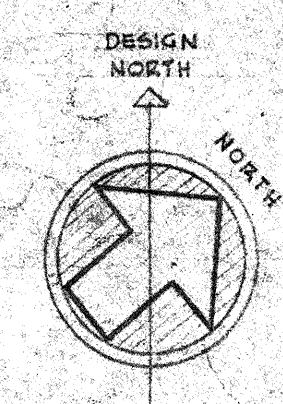
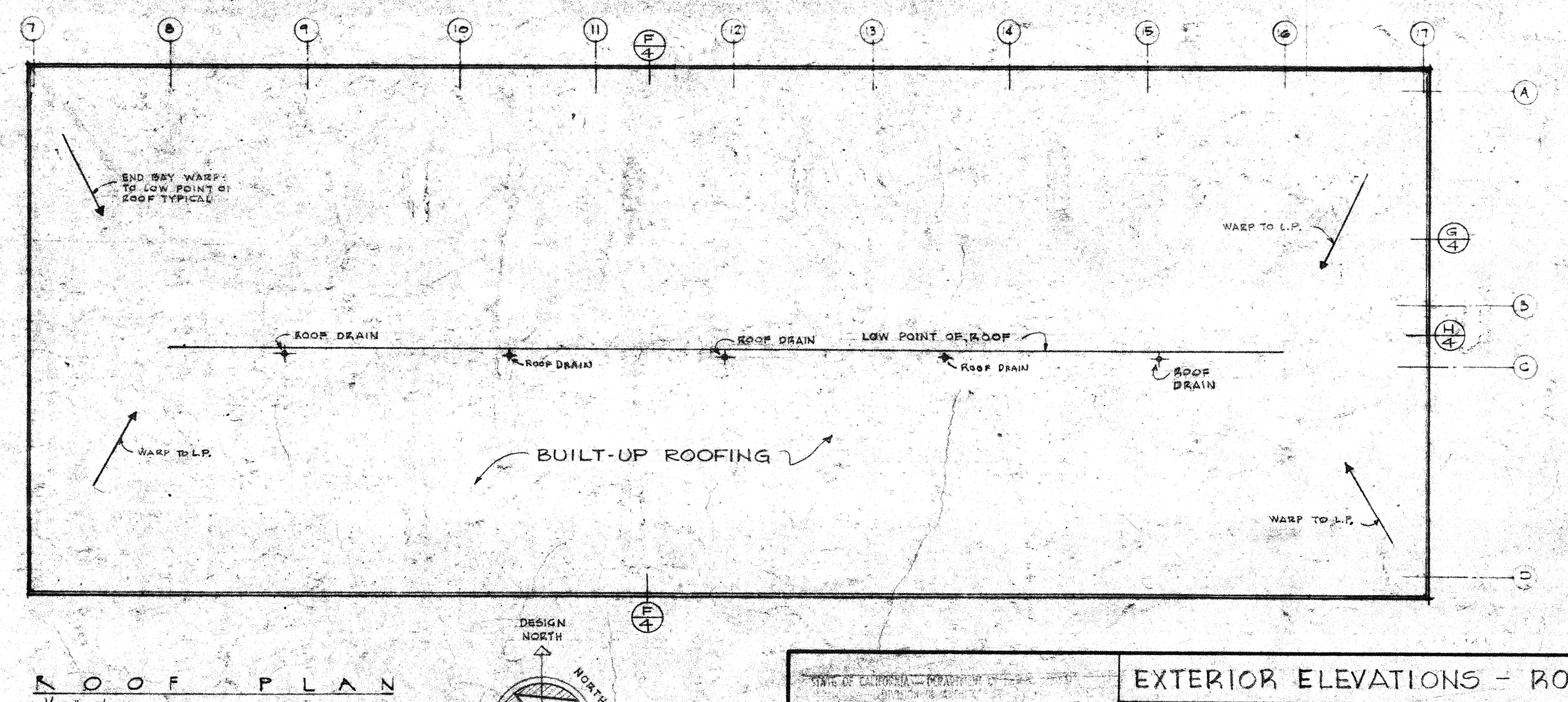


STATE OF CALIFORNIA - DEPARTMENT OF INDUSTRIAL RELATIONS		FLOOR PLAN	
10387, APPROVED 12/1/57		SCIENCE BUILDING	
CONTRA COSTA JUNIOR COLLEGE DISTRICT		CONTRA COSTA COLLEGE	
SAN PABLO		SAN PABLO	
CONTRA COSTA JUNIOR COLLEGE DISTRICT		MARTINEZ CAMP	
JOB NO. 99-16	GRAHAM O. HAYES STRUCTURAL ENGINEERS GEORGE K. BROW MECHANICAL ENGINEER SMITH & GARTHNER	JOHN CARL WARNECKE AIA ARCHITECT	CHARLES F. STROTHOFF AIA ASSOCIATE ARCHITECT
DRAWN			
CHECKED			
		1801 MARKET STREET SAN FRANCISCO	1801 MARKET STREET SAN FRANCISCO
			2





NOTE REFER TO STRUCTURAL DWGS. FOR FOUNDATIONS

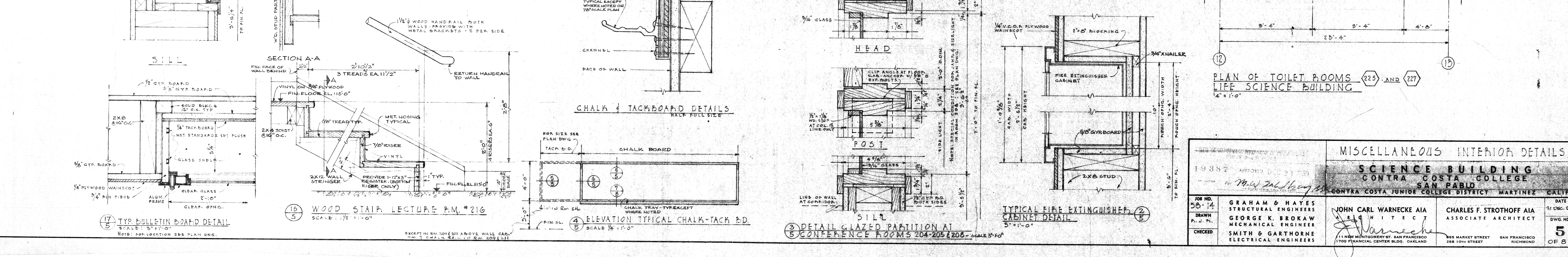
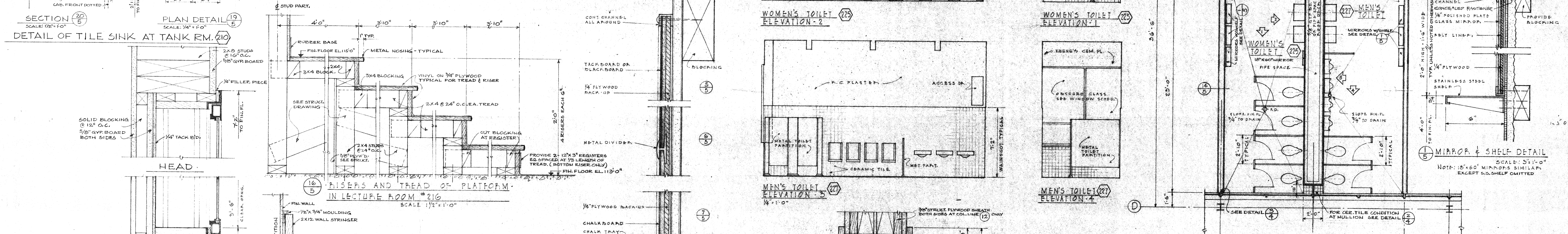
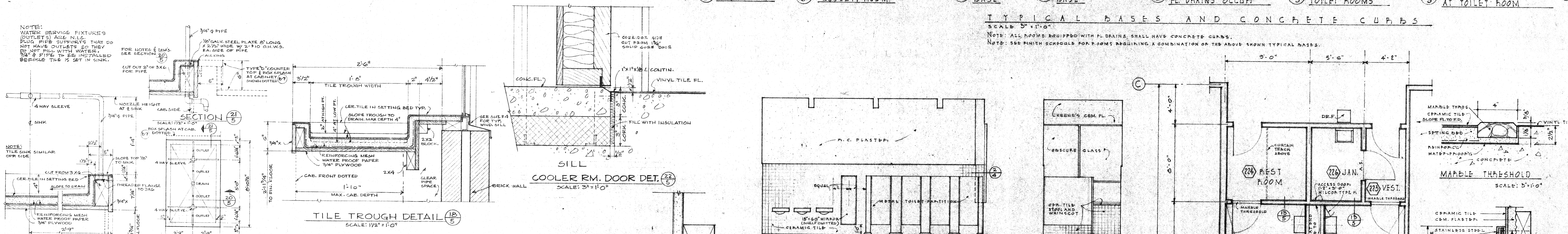
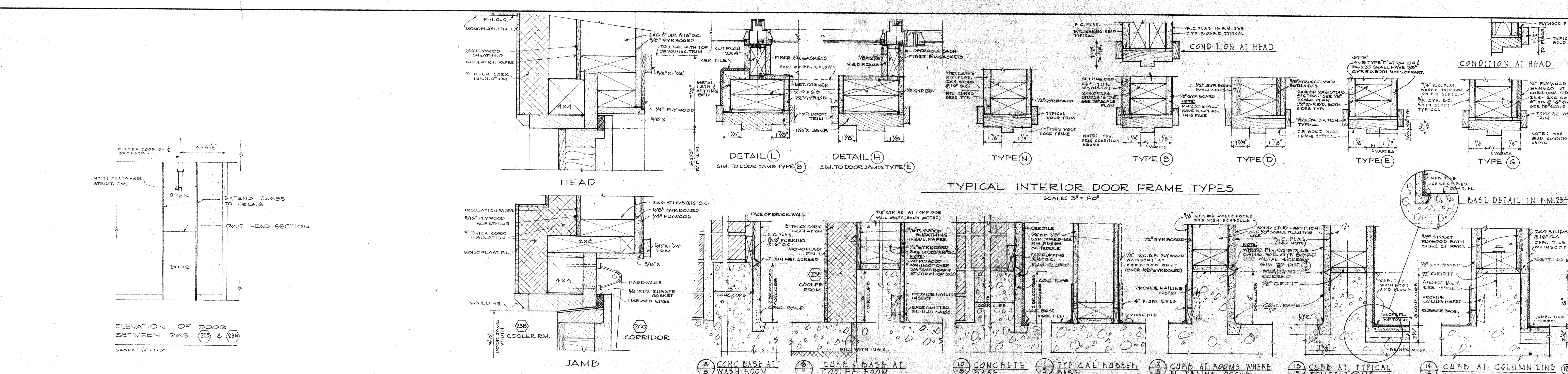


EXTERIOR ELEVATIONS - ROOF PLAN			
<b>SCIENCE BUILDING</b> <b>CONTRA COSTA COLLEGE</b> <b>SAN PABLO</b> CONTRA COSTA JUNIOR COLLEGE DISTRICT MARTINEZ CALIF.			
JOB NO. 58-14 DRAWN CHECKED	GRAHAM & HAYES STRUCTURAL ENGINEERS GEORGE K. BROKAW MECHANICAL ENGINEER SMITH & GARTHOENE ELECTRICAL ENGINEERS	JOHN CARL WARNECKE AIA ARCHITECT 1717 W. MONTGOMERY ST. SAN FRANCISCO 1700 FINANCIAL CENTER BLDG. OAKLAND	CHARLES F. STROTHOFF AIA ASSOCIATE ARCHITECT 1888 MARKET STREET SAN FRANCISCO
DATE 21 DEC. 59 DWG. NO. <b>3</b> OF 3			



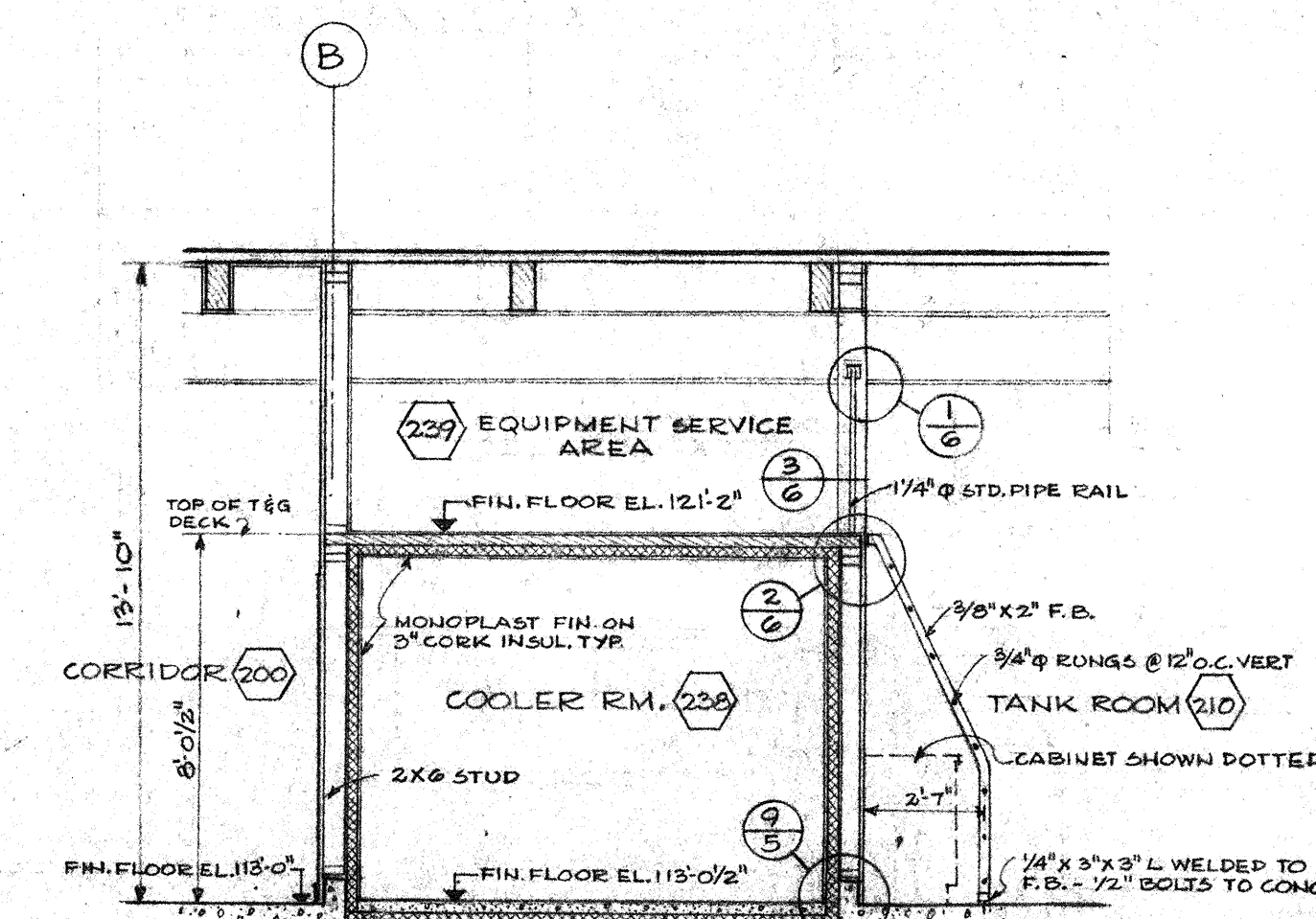




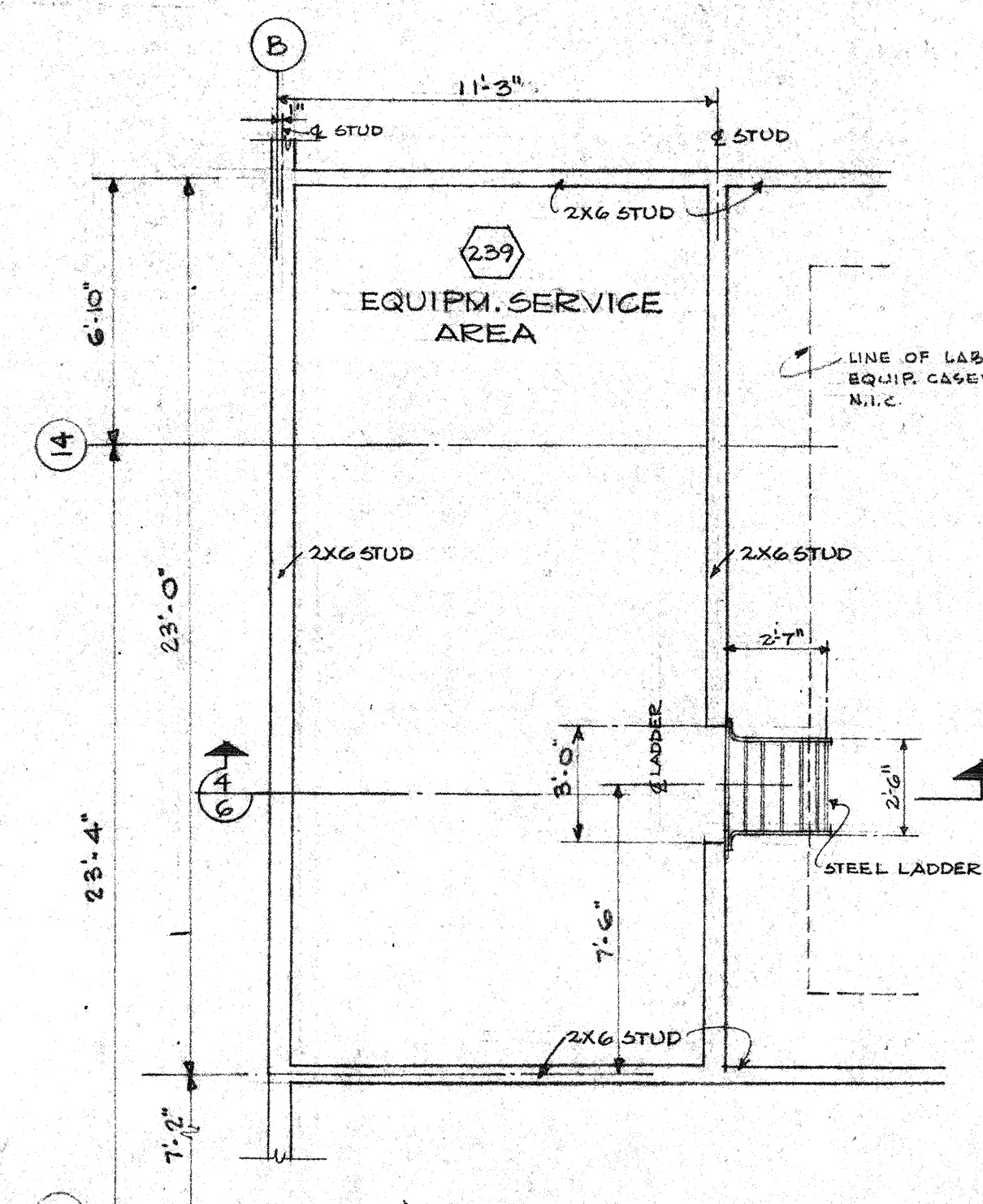


MISCELLANEOUS INTERIOR DETAILS			
SCIENCE BUILDING CONTRA COSTA COLLEGE SAN PABLO CONTRA COSTA JUNIOR COLLEGE DISTRICT MARTINEZ CALIF.			
JOB NO. 58-14 DRAWN P. J. H. CHECKED	GRAHAM & HAYES STRUCTURAL ENGINEERS GEORGE K. BROKAW MECHANICAL ENGINEER SMITH & GARTHONE ELECTRICAL ENGINEERS	JOHN CARL WARNECKE AIA ARCHITECT 1110 MONTEGOMERY ST. SAN FRANCISCO 1700 FINANCIAL CENTER BLDG. OAKLAND	CHARLES F. STROTHOFF AIA ASSOCIATE ARCHITECT 885 MARKET STREET SAN FRANCISCO 288 10TH STREET RICHMOND
DATE 21 DEC. 59 58 OF 58			DATE 21 DEC. 59 58 OF 58



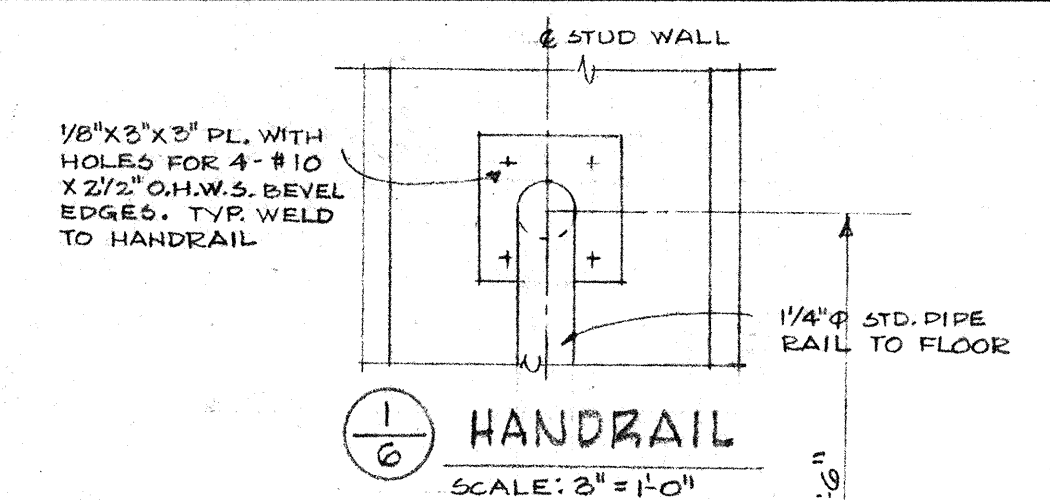


4/6 TYPICAL SECTION  
SCALE: 1/4" = 1'-0"

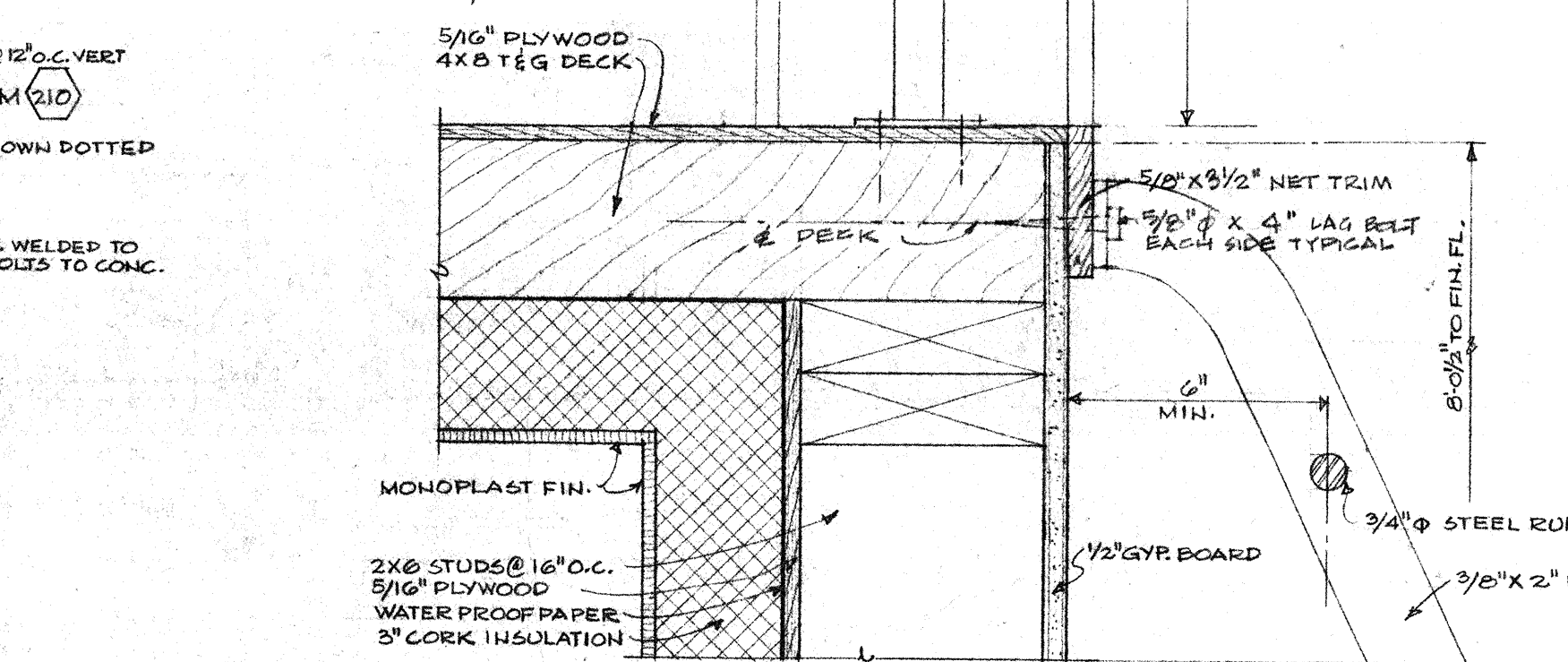


PLAN  
SCALE: 1/4" = 1'-0"

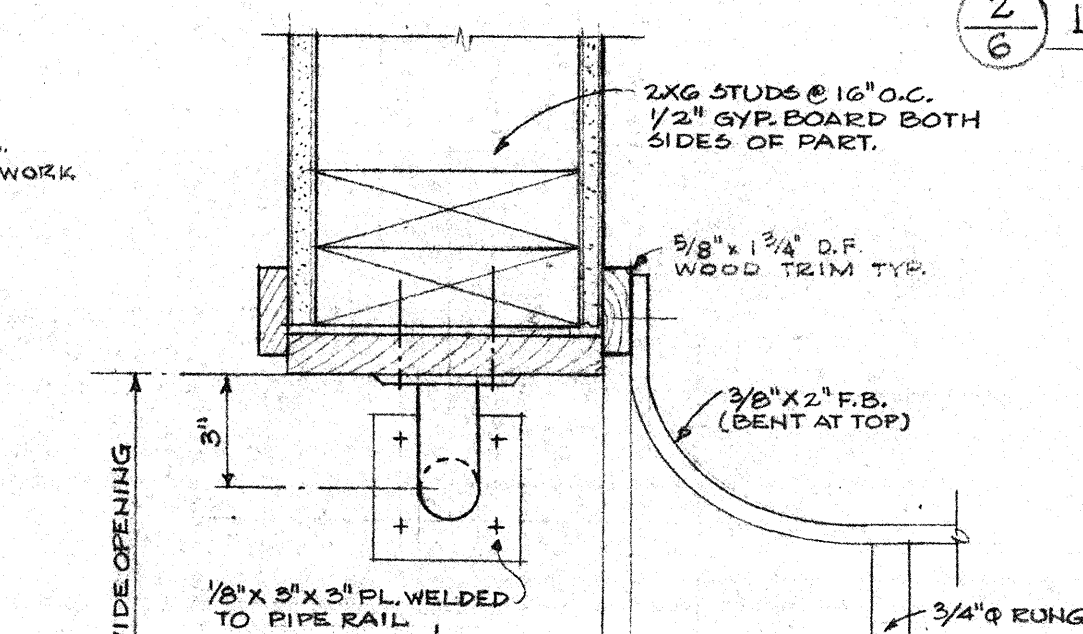
EQUIPMENT SERVICE AREA (229) - PLAN, SECTION AND DETAILS



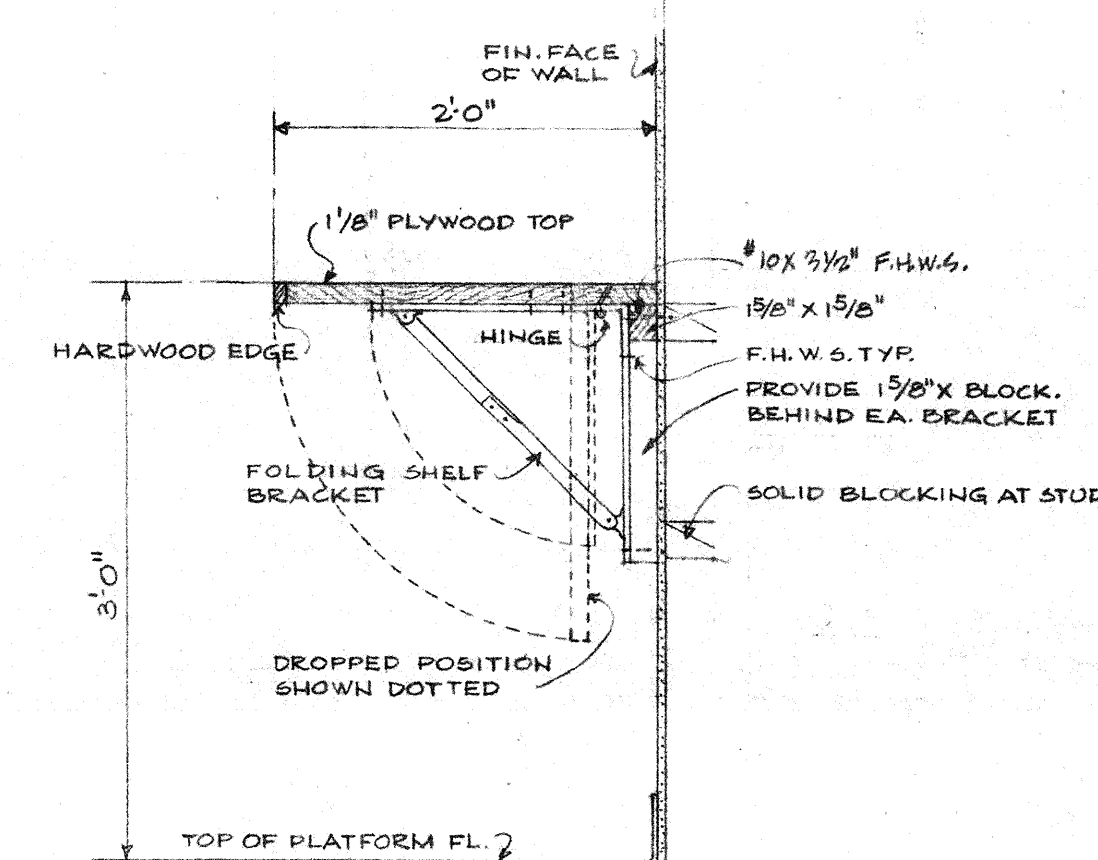
1/6 HANDRAIL  
SCALE: 3" = 1'-0"



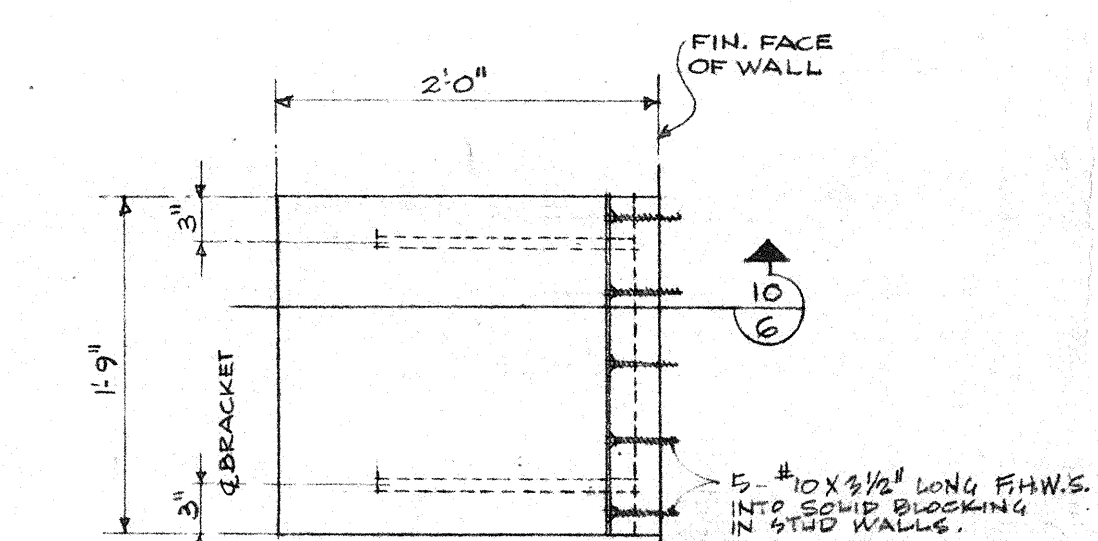
2/6 LADDER AT WALL  
SCALE: 3" = 1'-0"



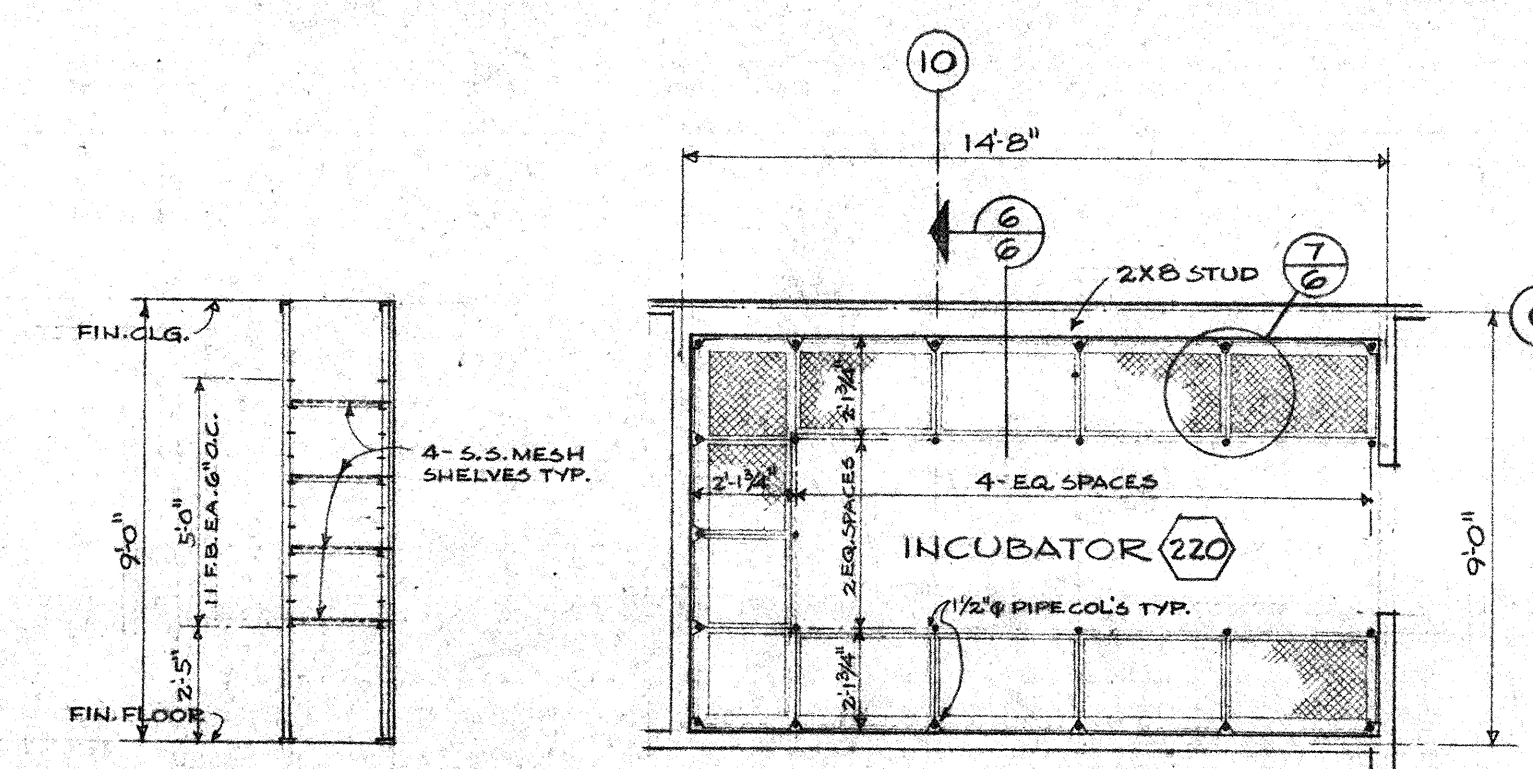
3/6 JAMB  
SCALE: 3" = 1'-0"



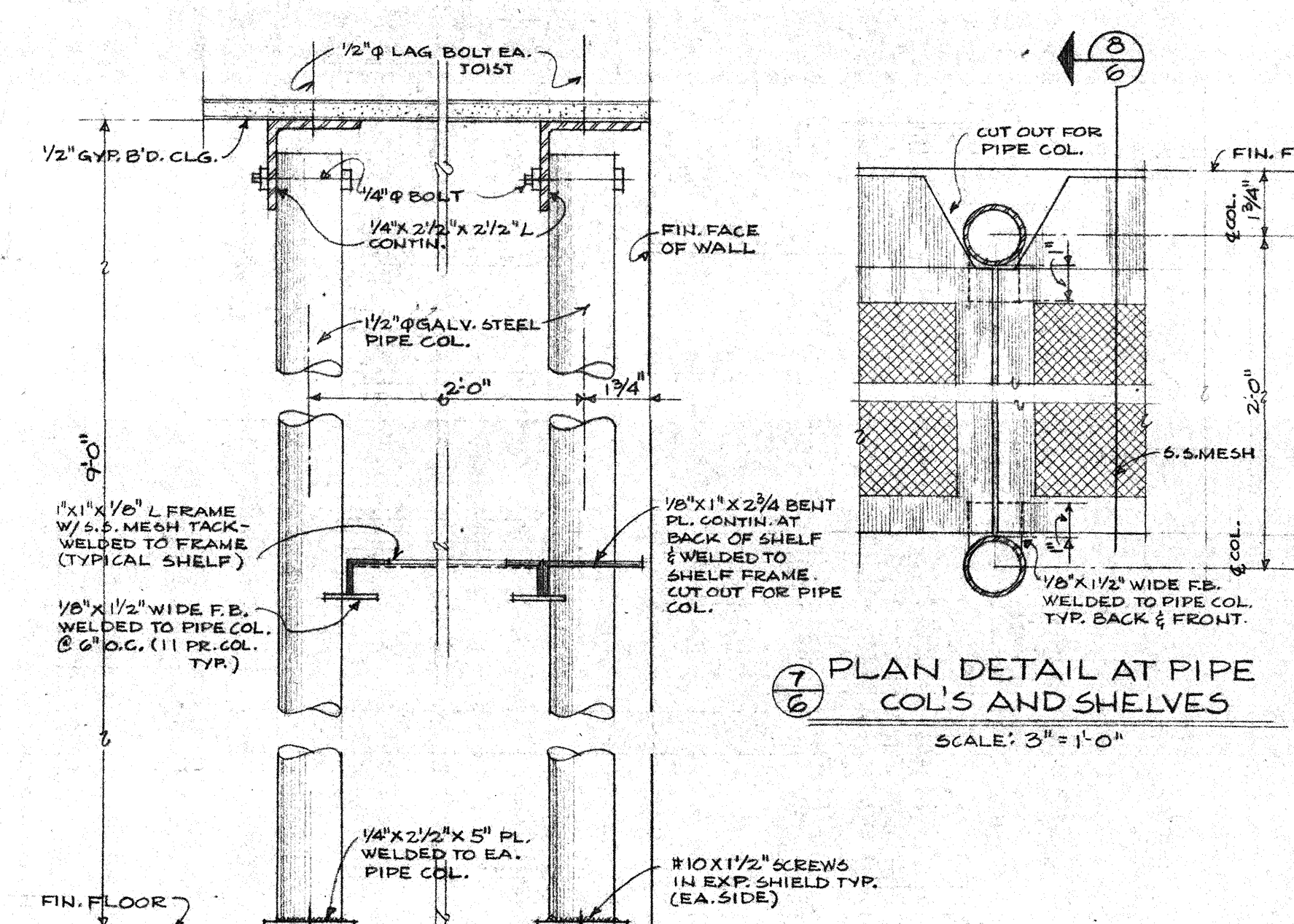
SECTION 10/6  
SCALE: 1" = 1'-0"



PLAN SCALE: 1" = 1'-0"  
DETAIL OF DROP SHELF (9/6)  
LECTURE ROOM (216)

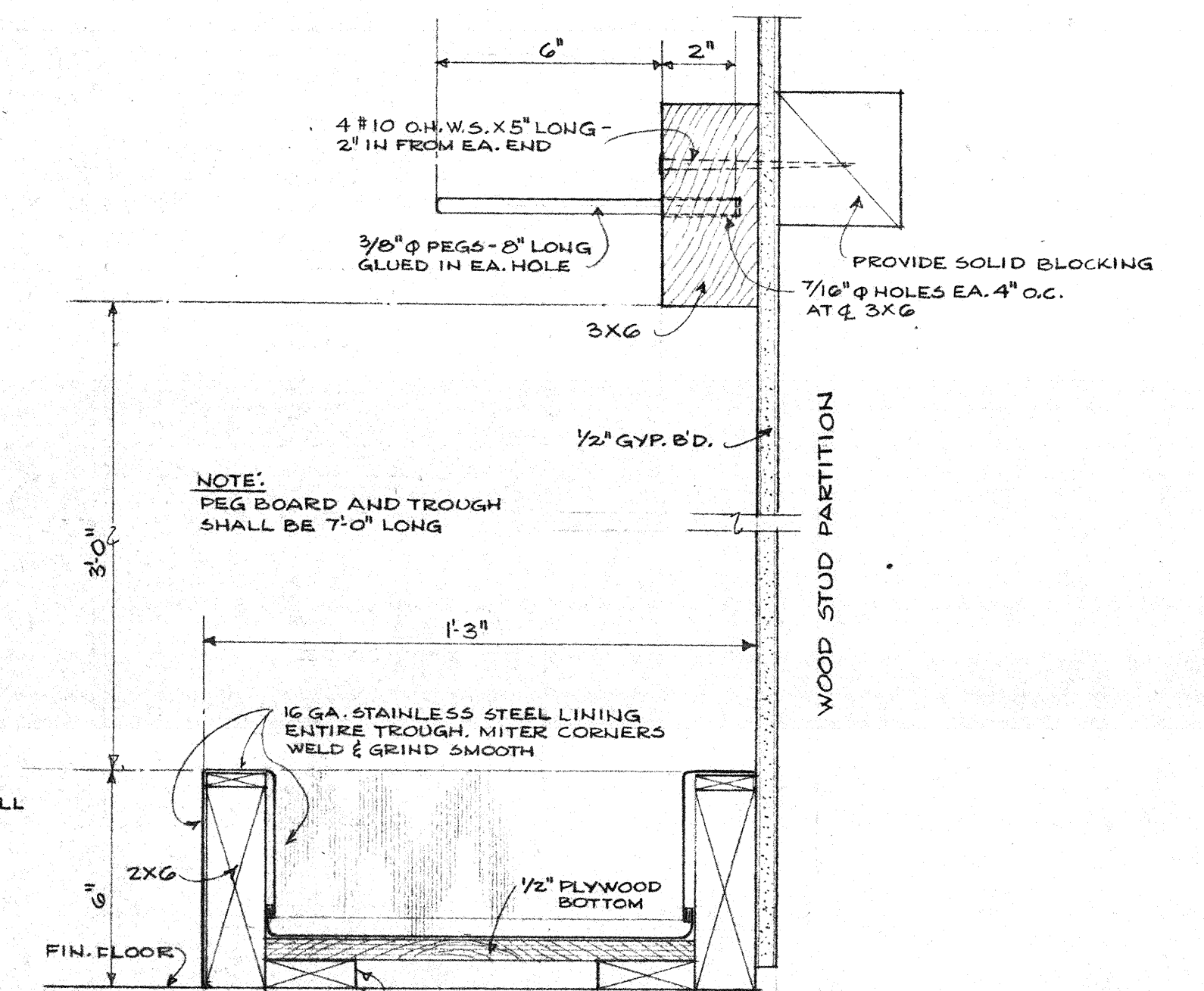


PLAN  
SCALE: 1/4" = 1'-0"



7/6 PLAN DETAIL AT PIPE COLUMNS AND SHELVES  
SCALE: 3" = 1'-0"

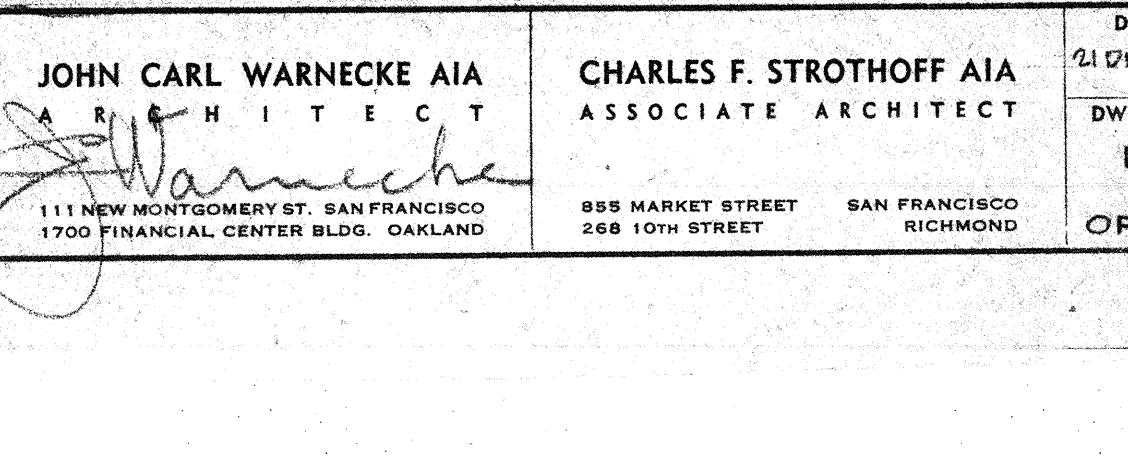
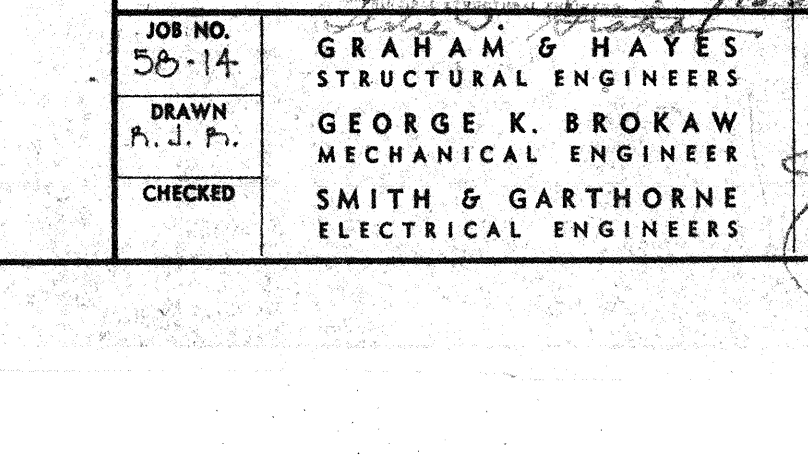
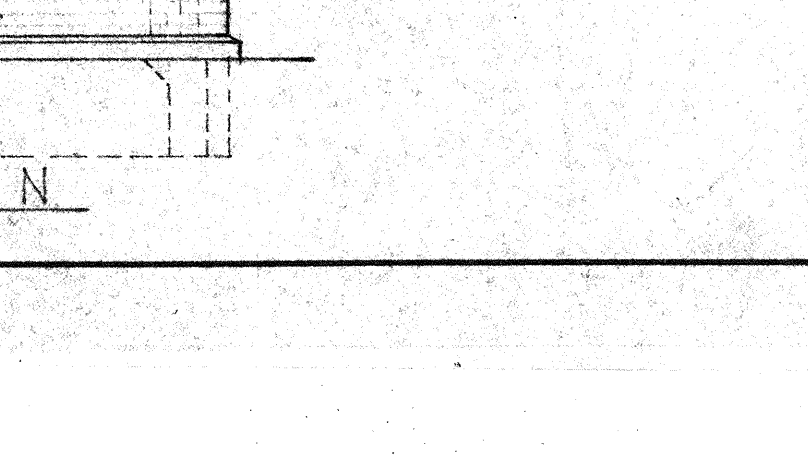
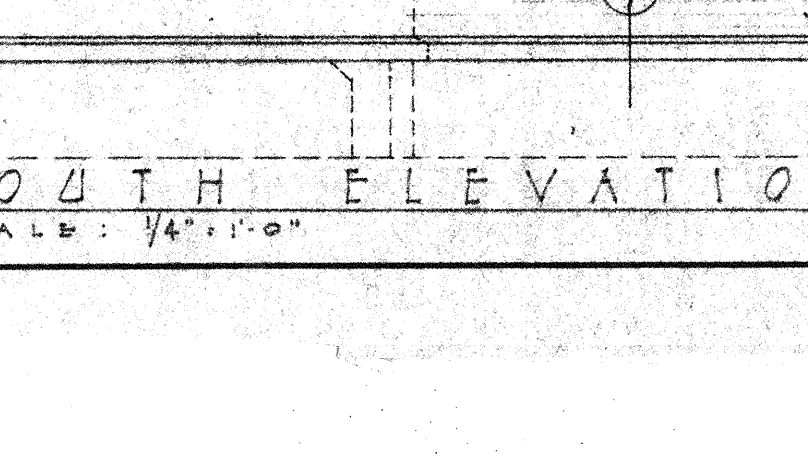
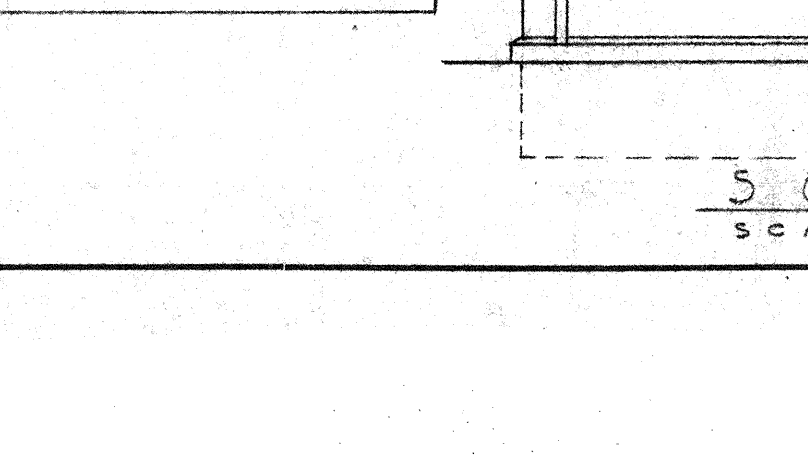
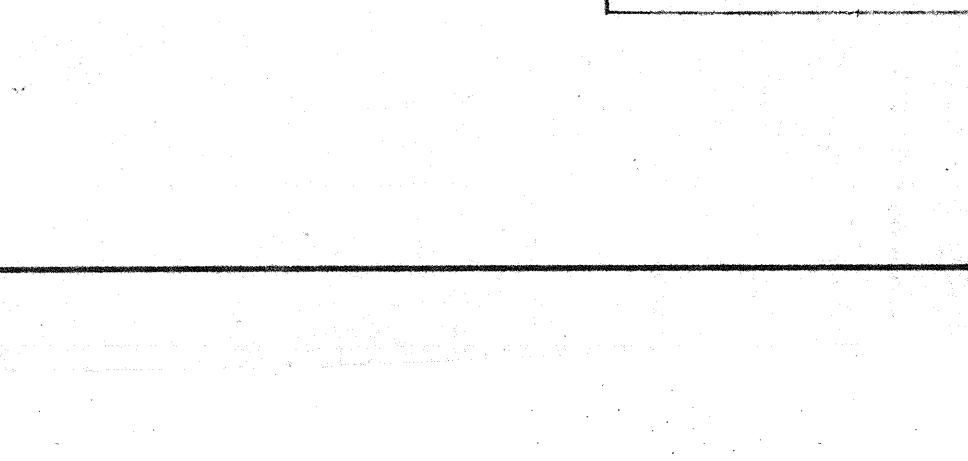
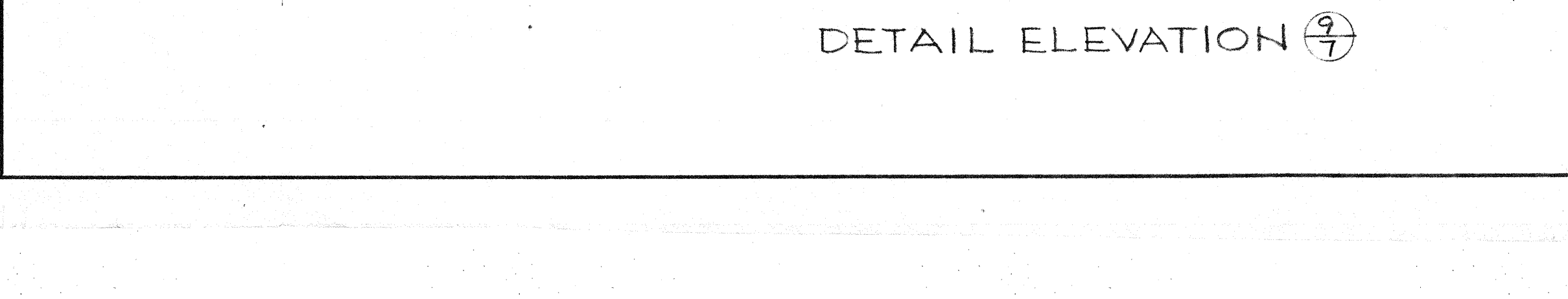
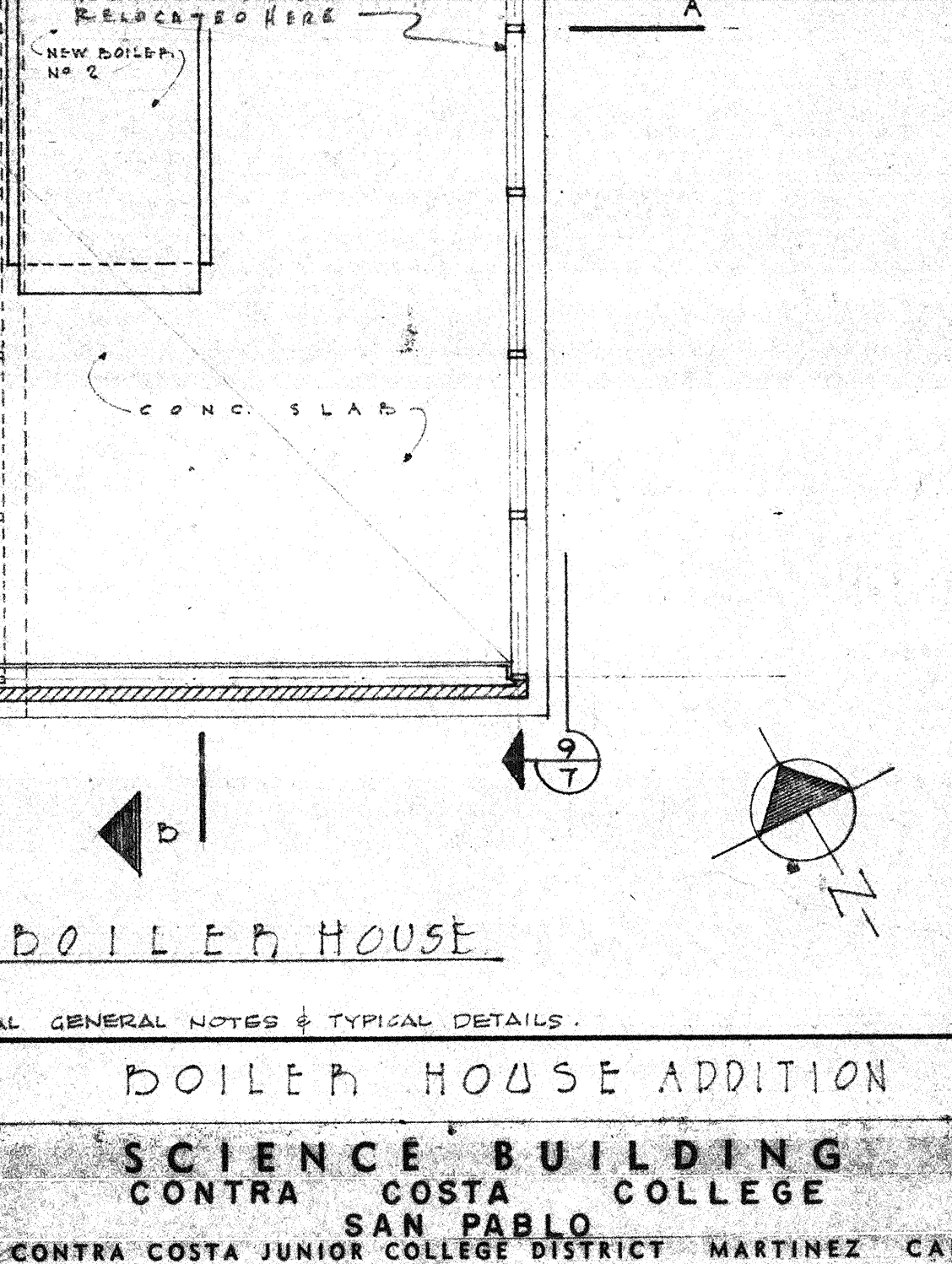
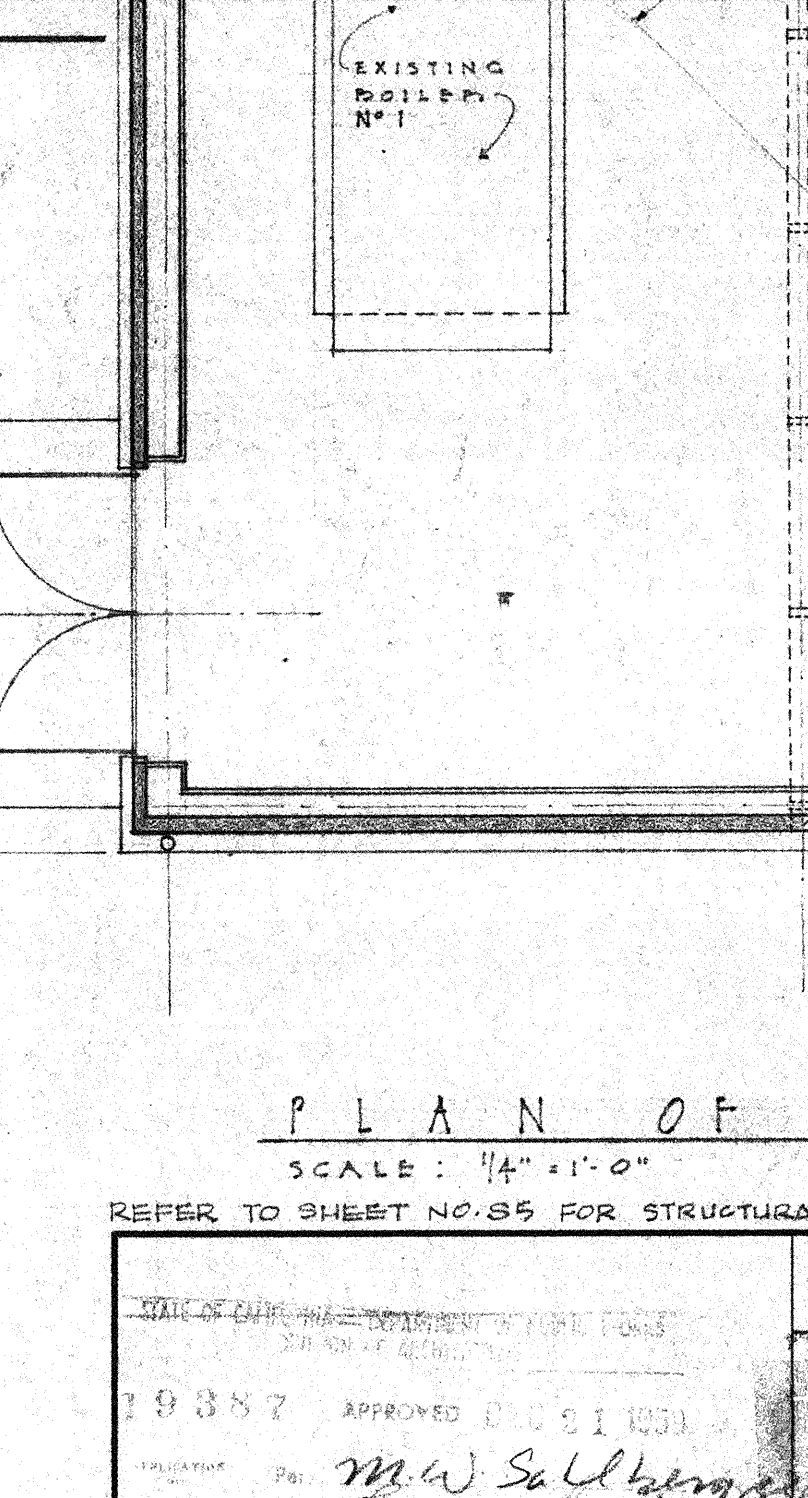
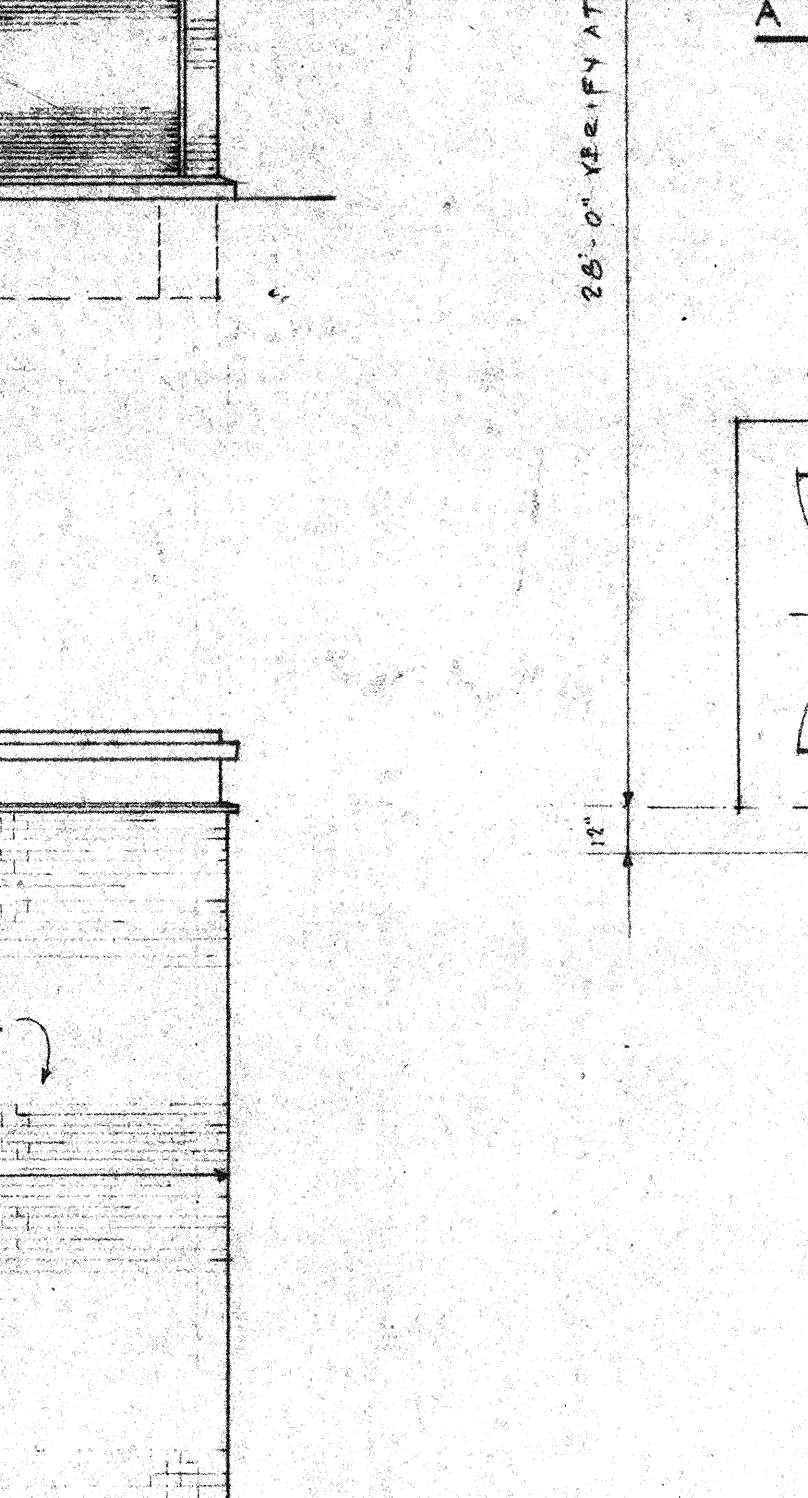
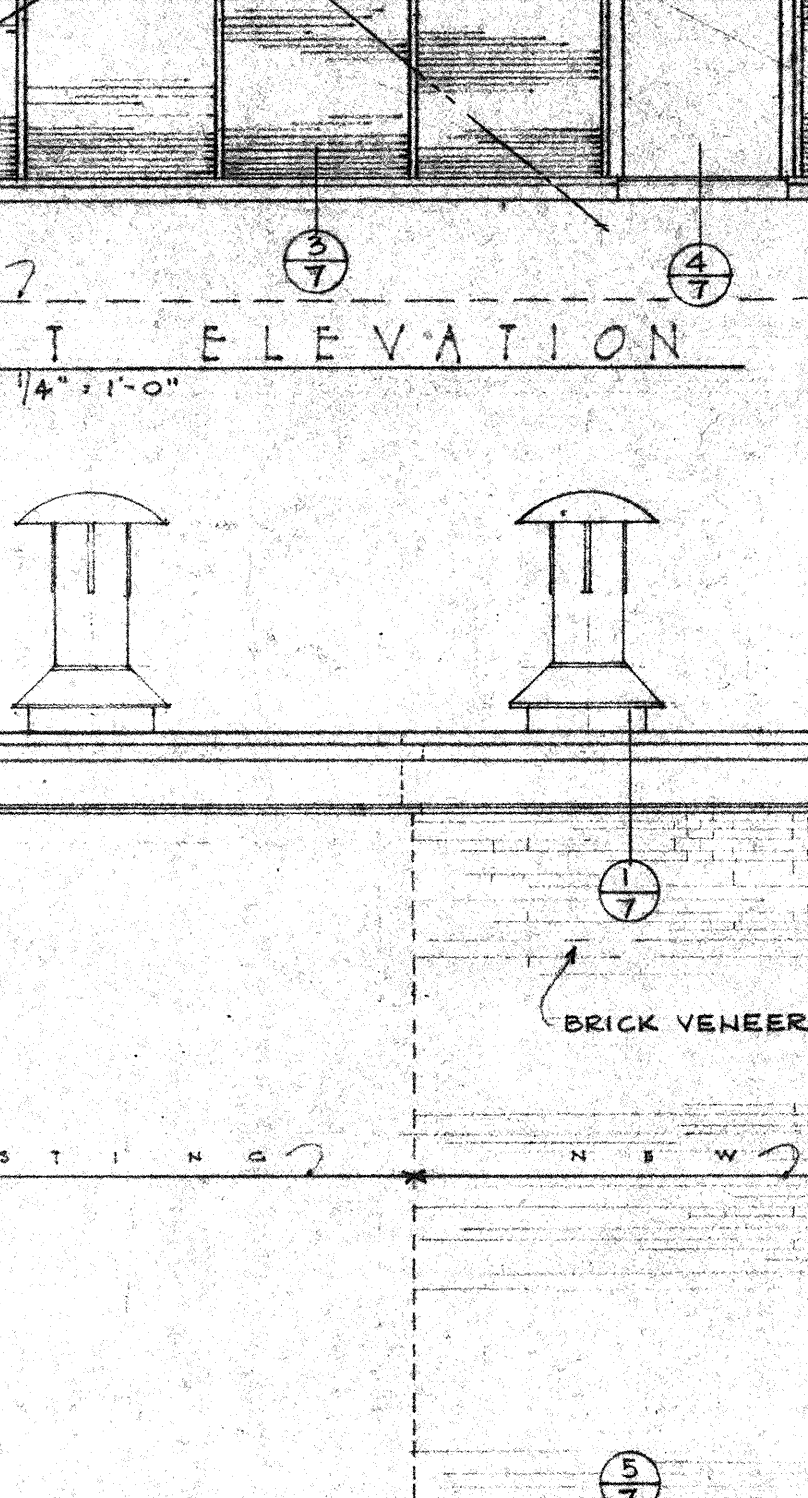
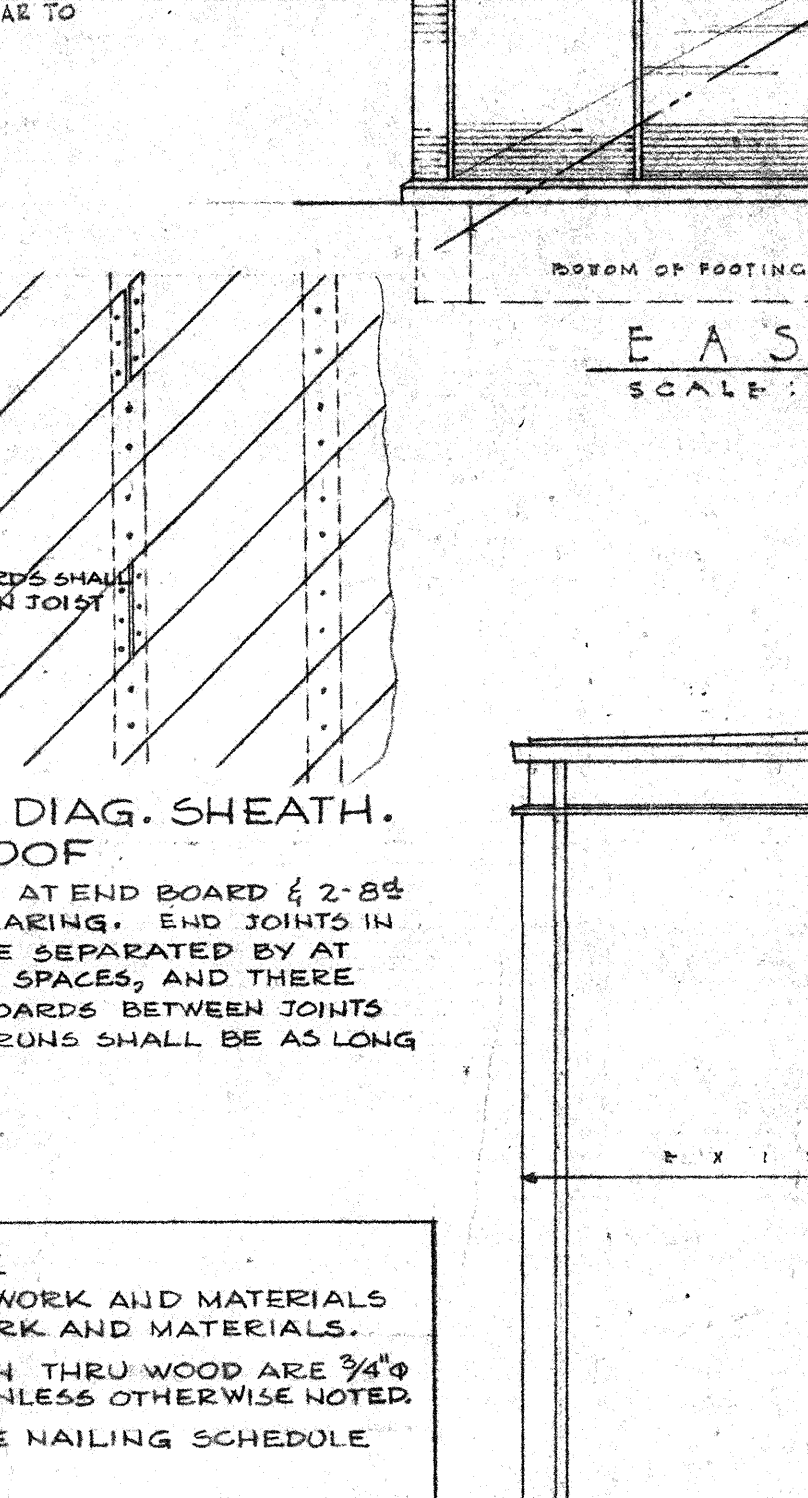
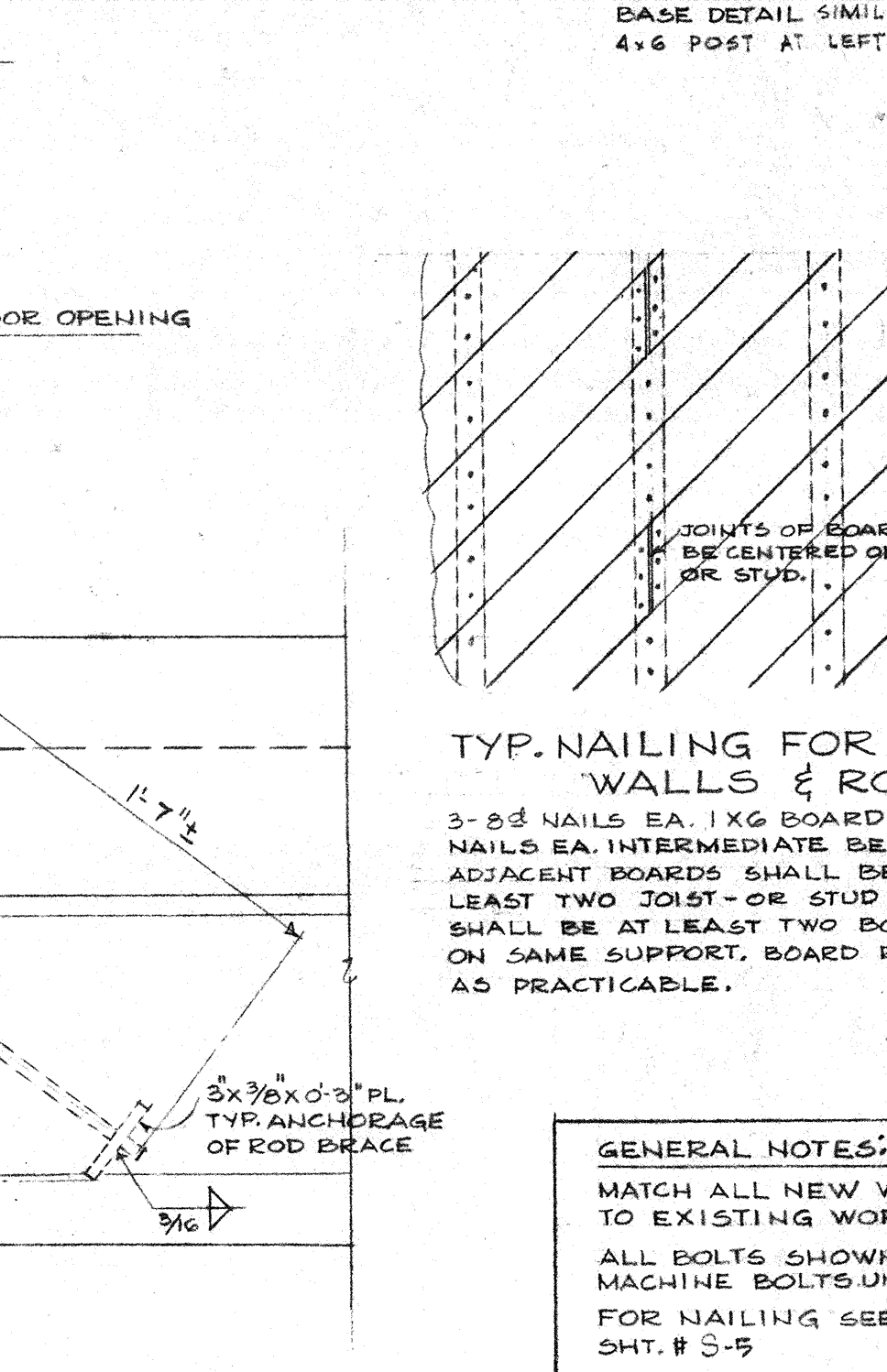
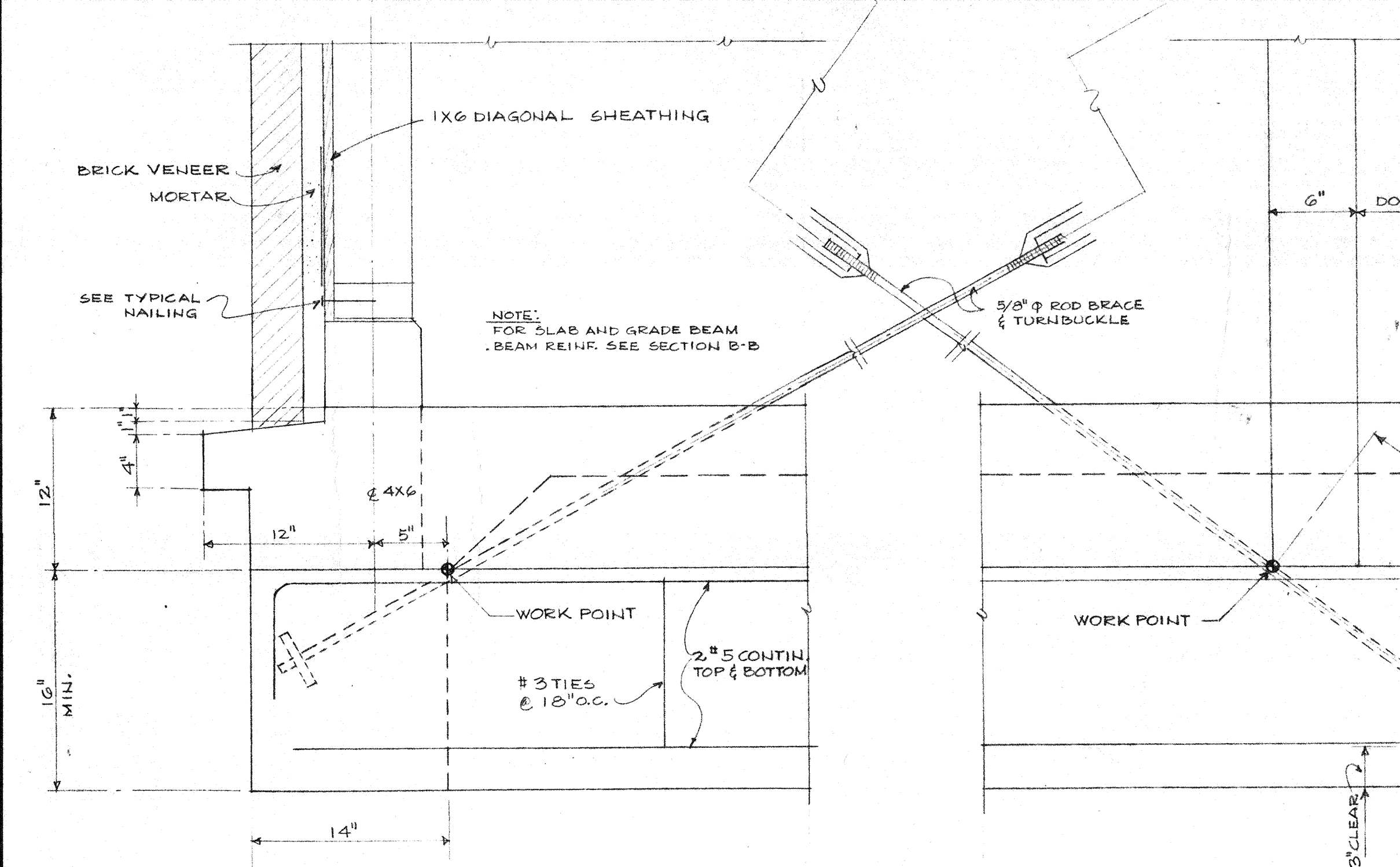
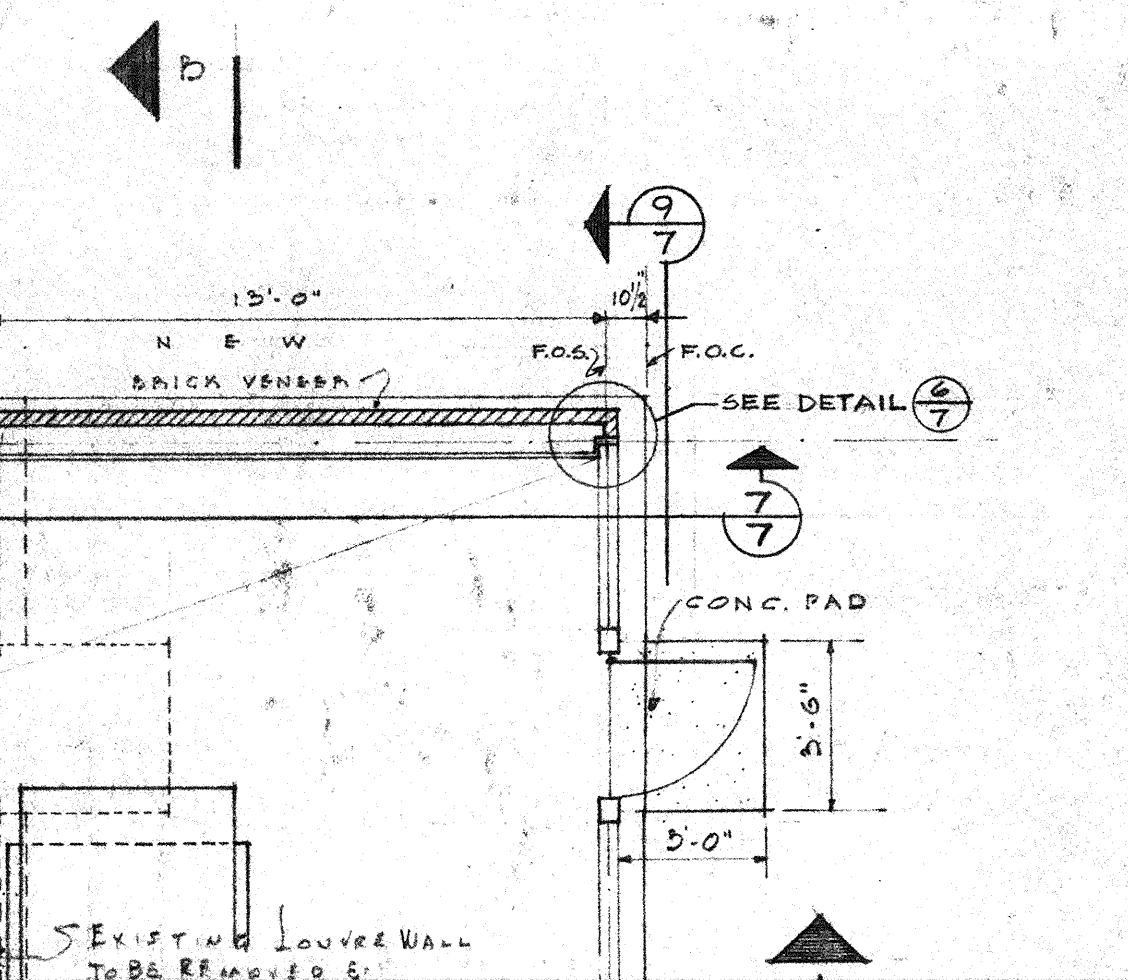
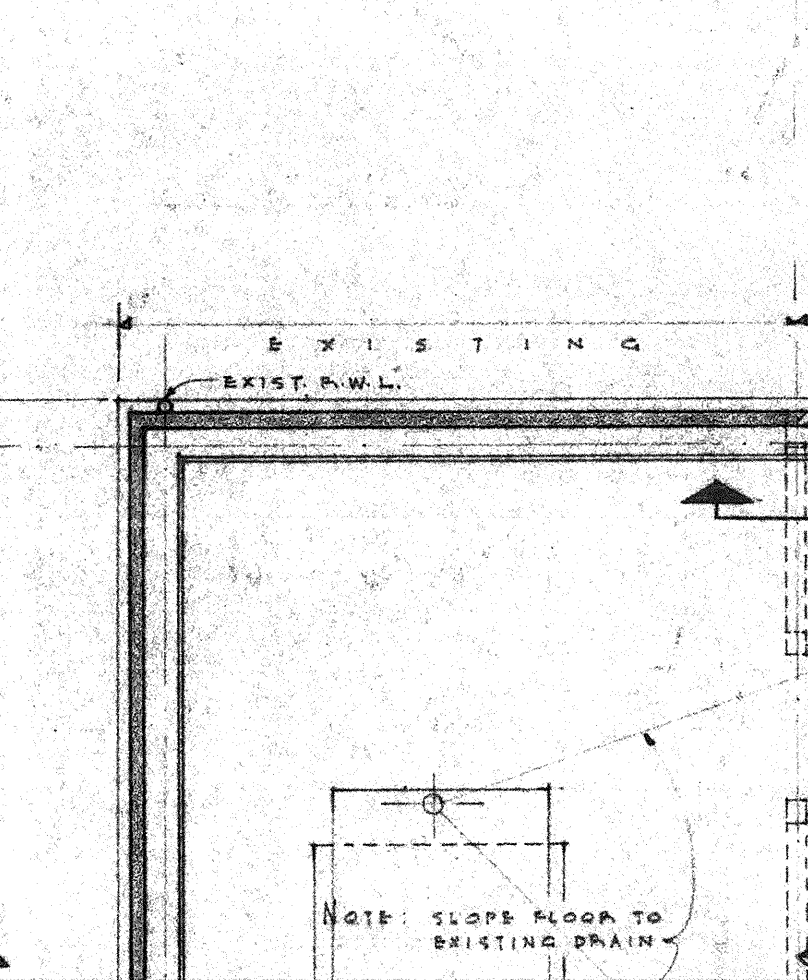
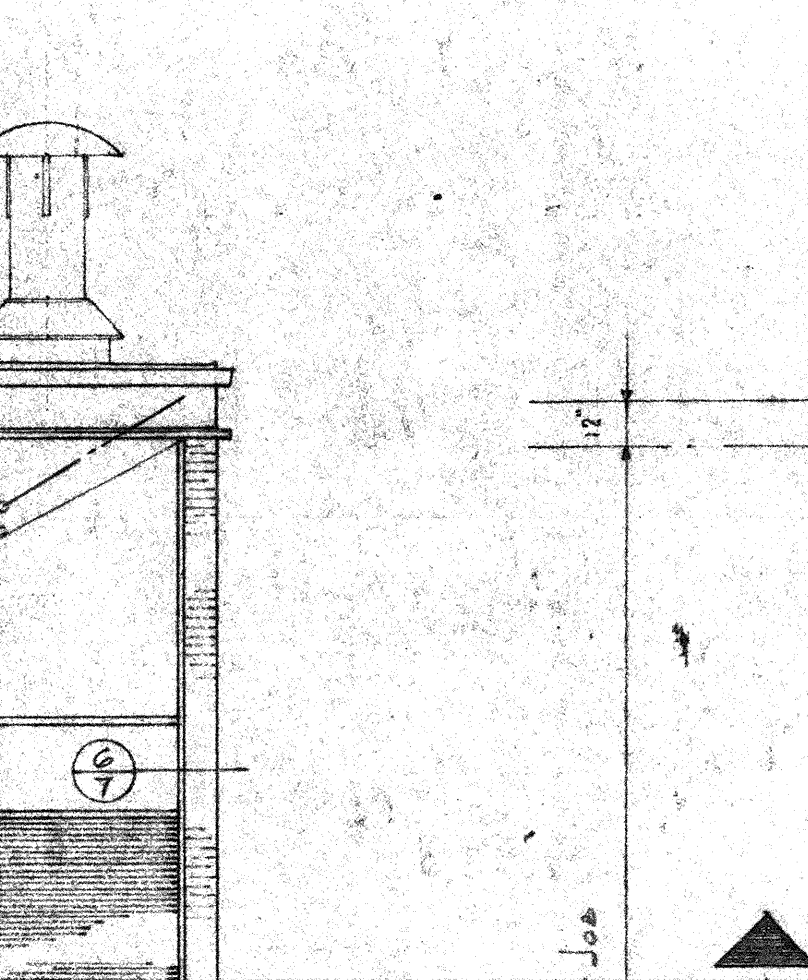
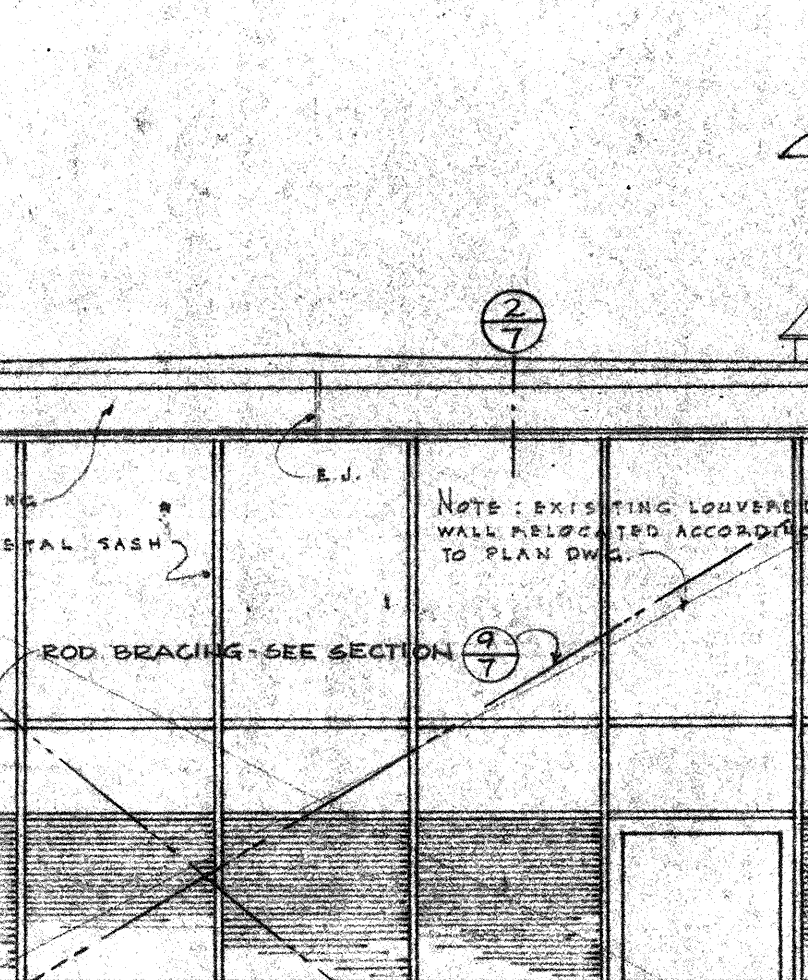
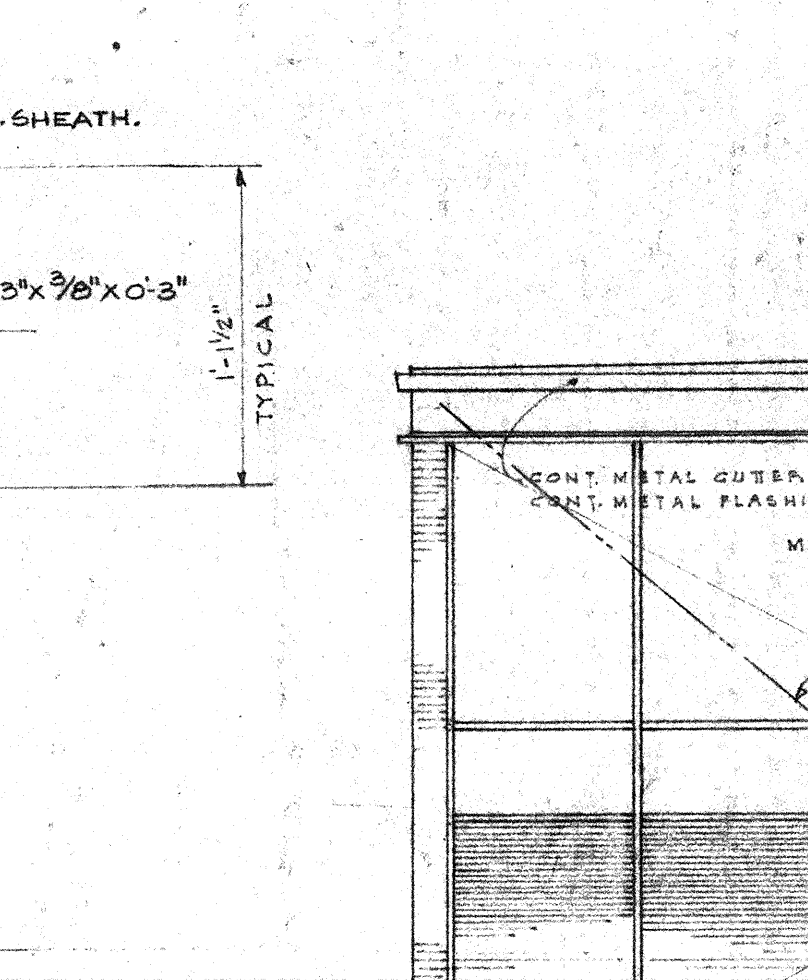
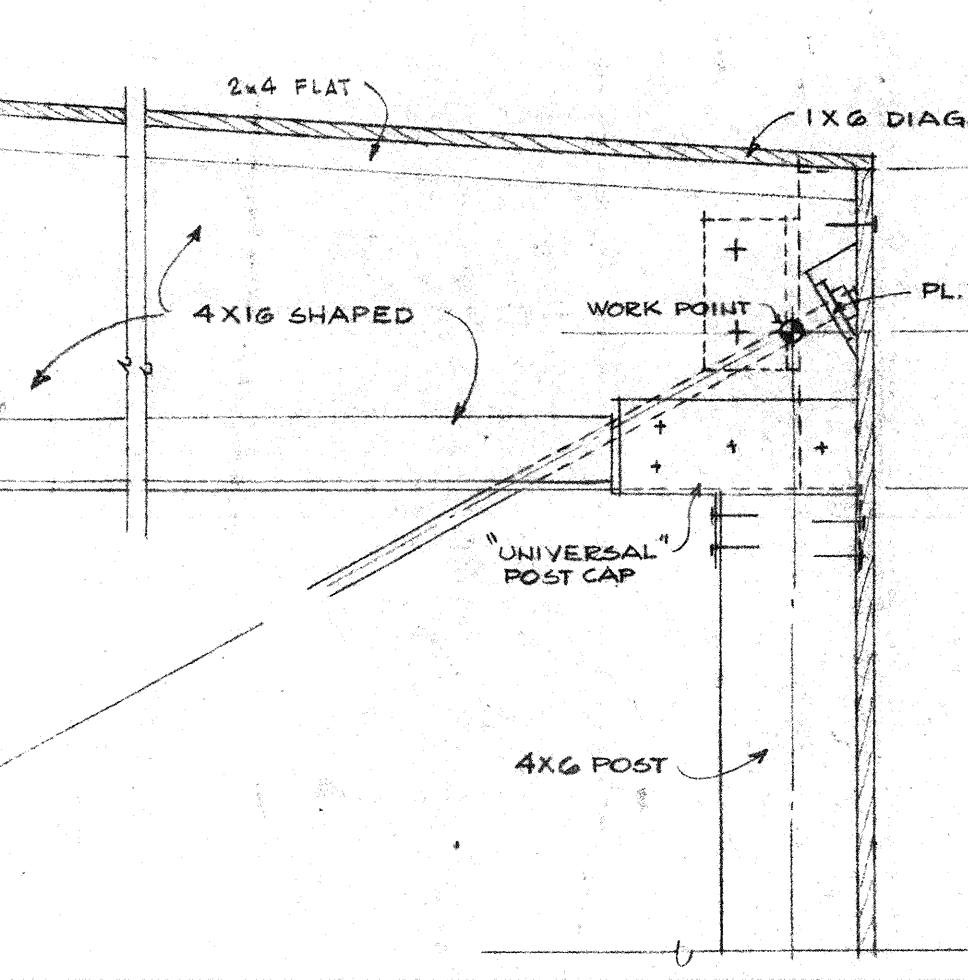
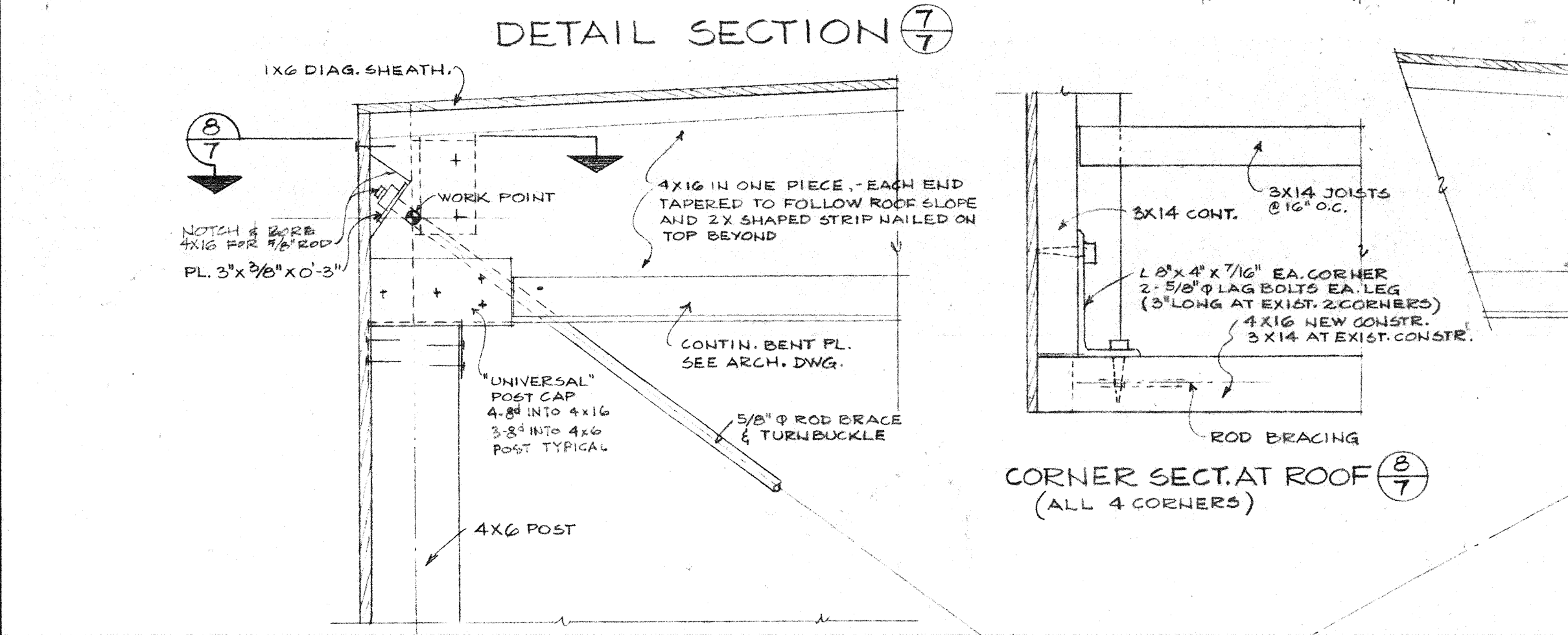
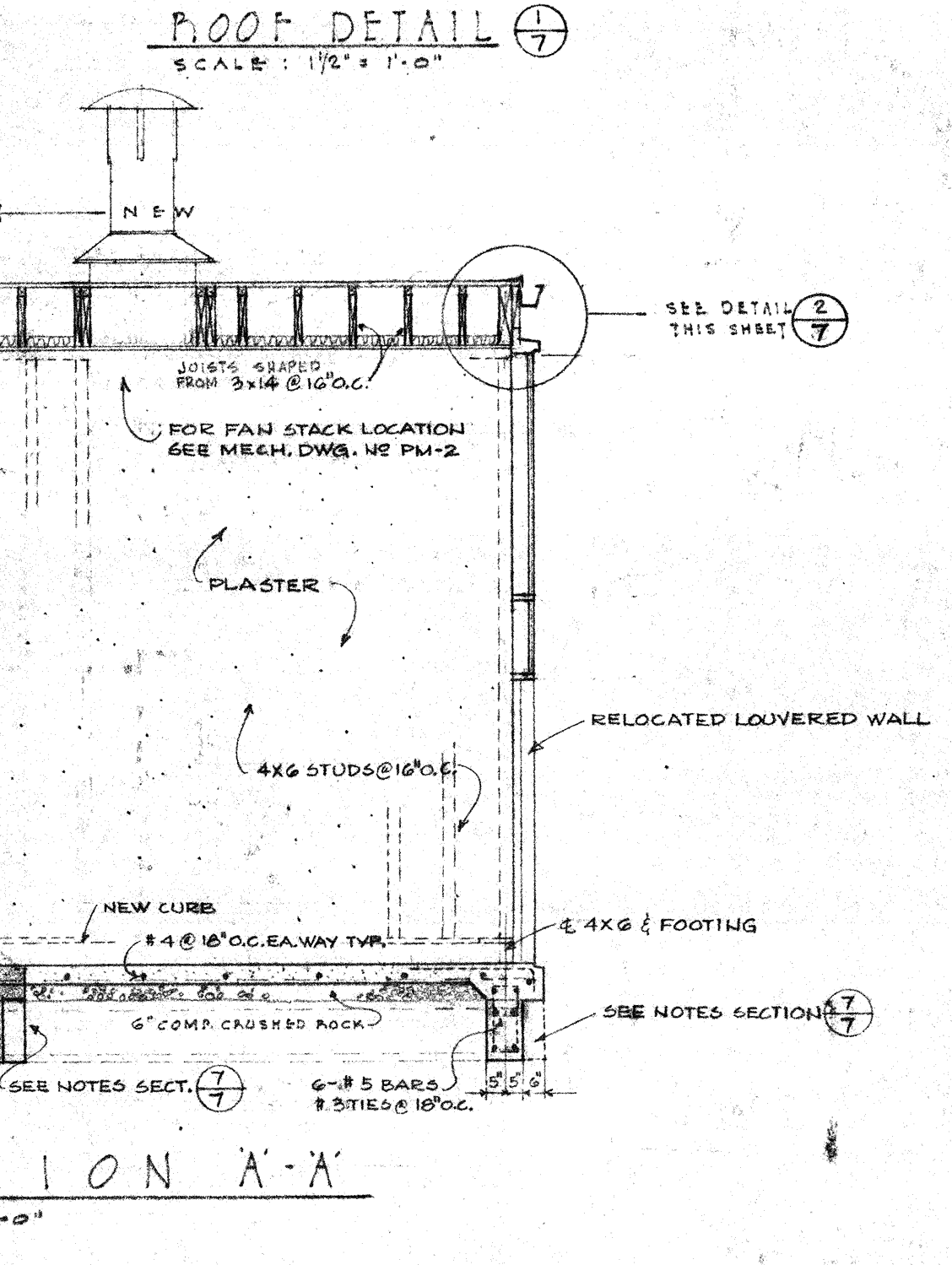
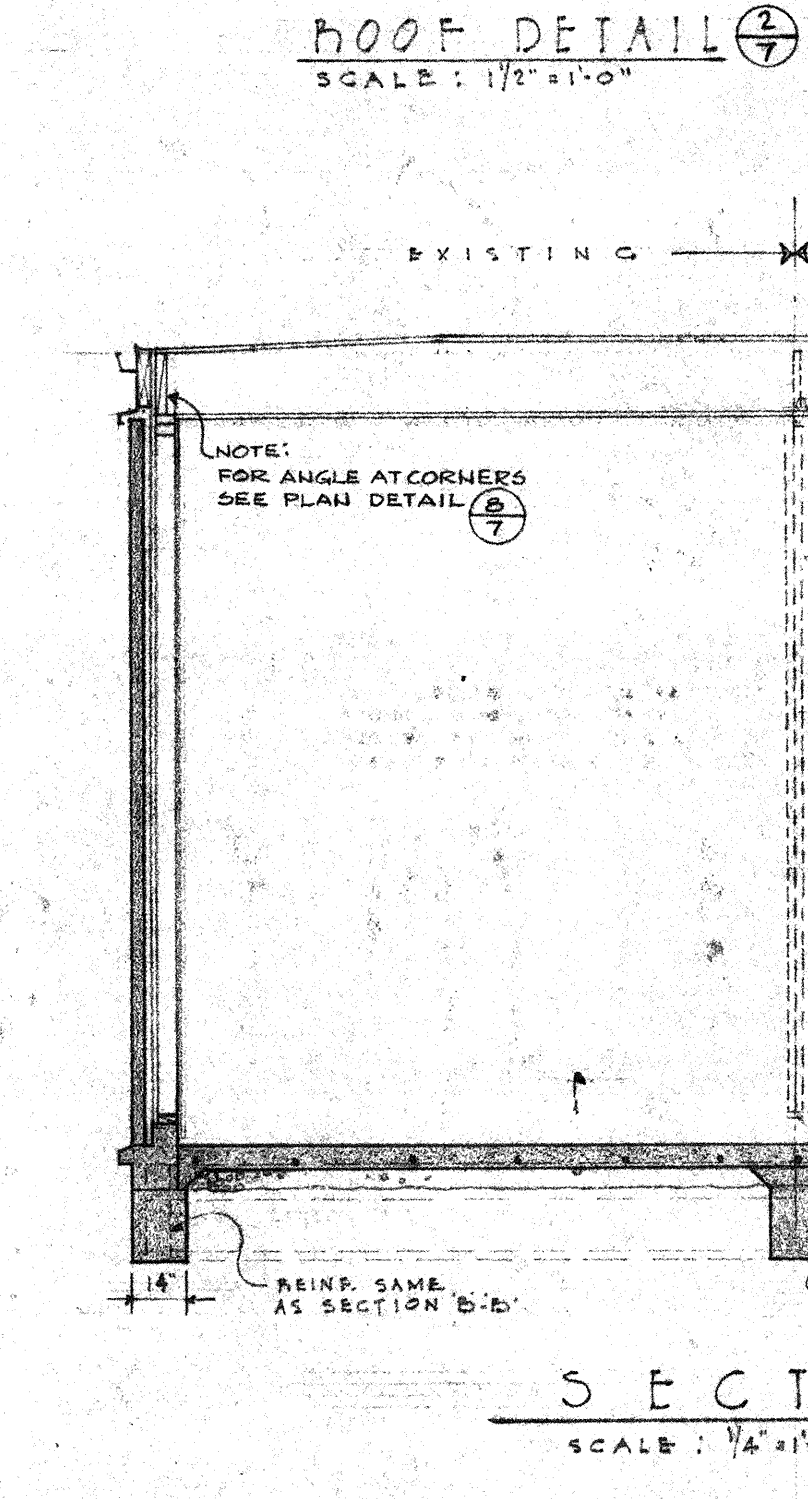
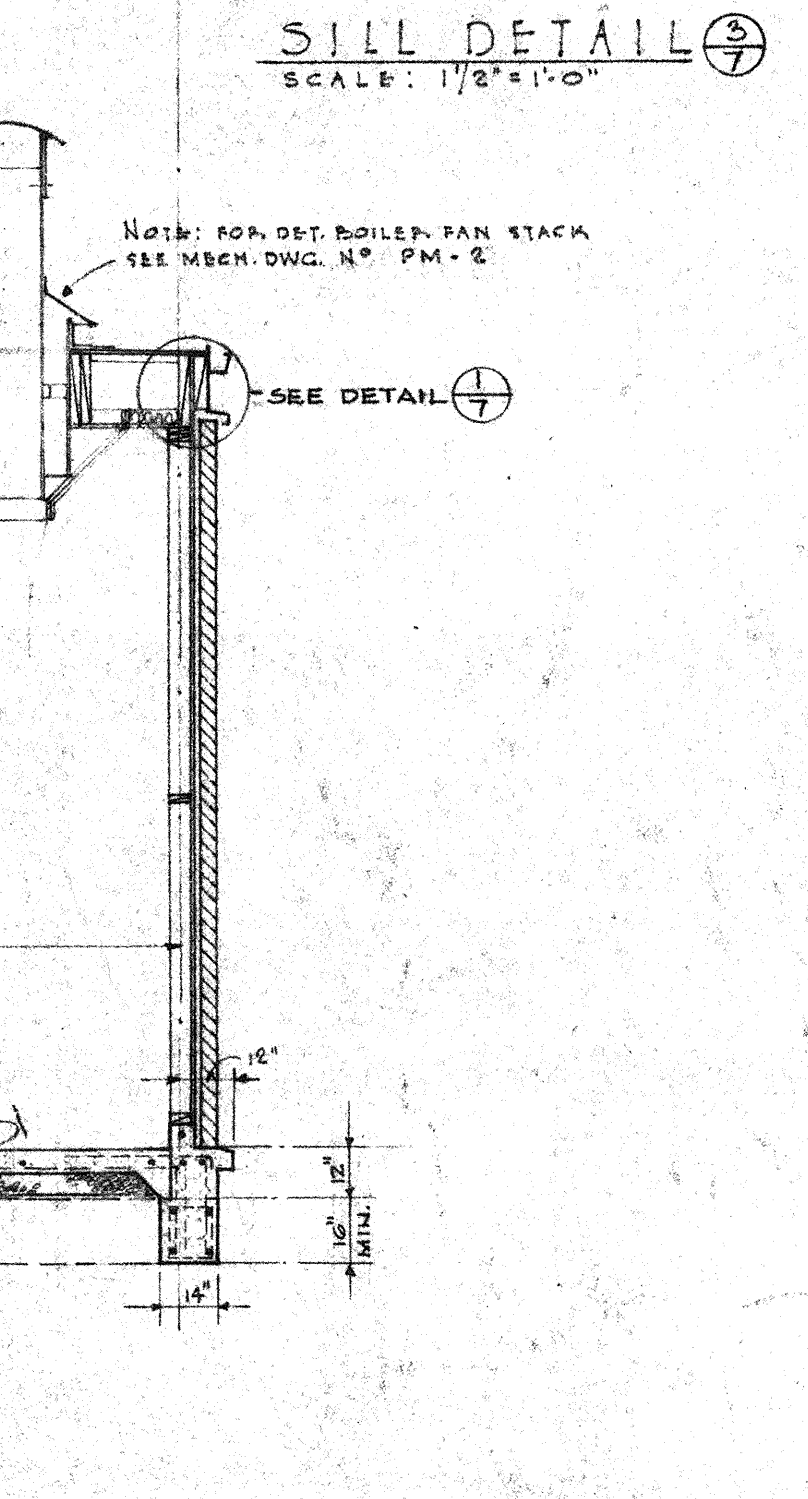
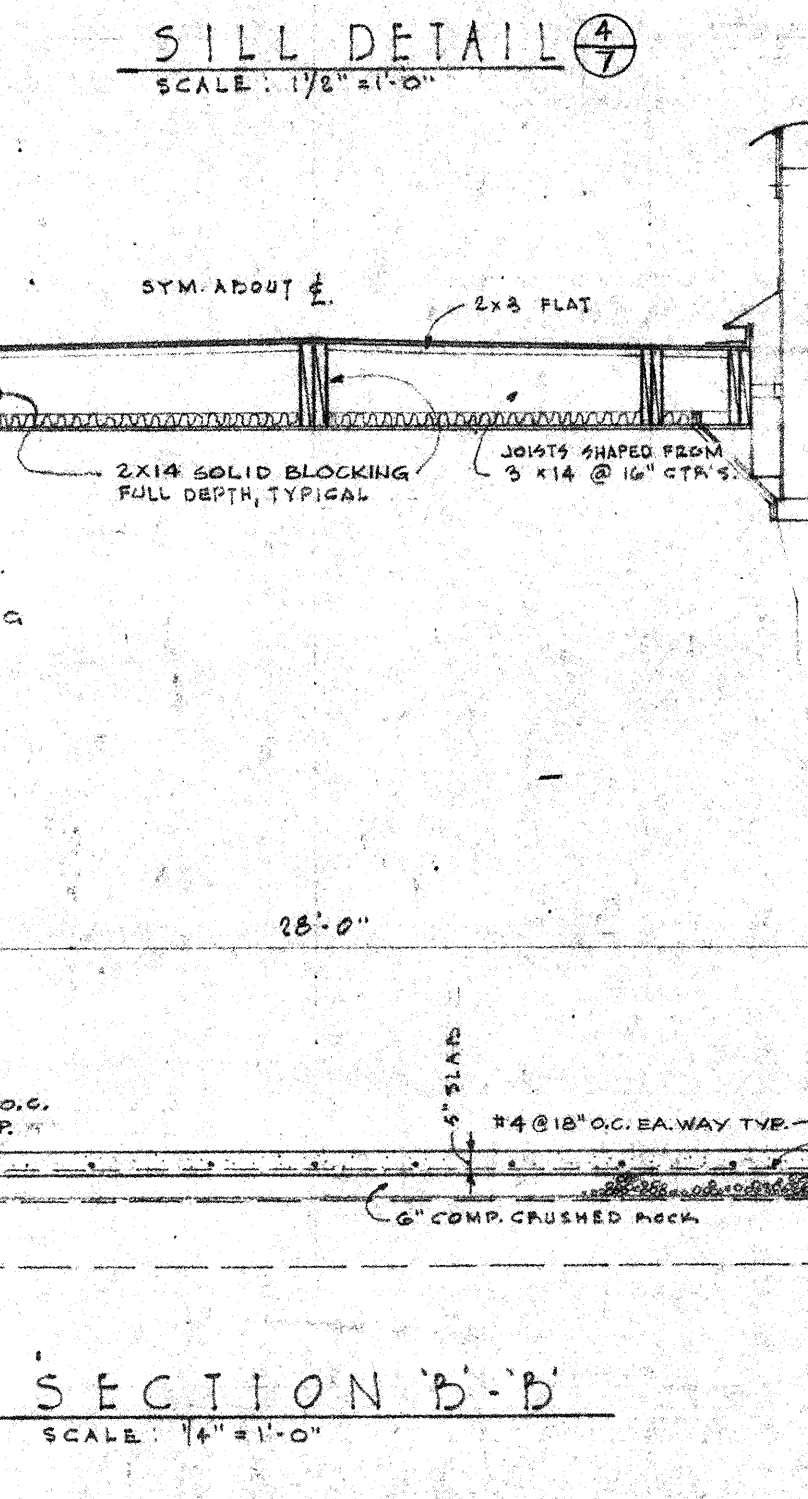
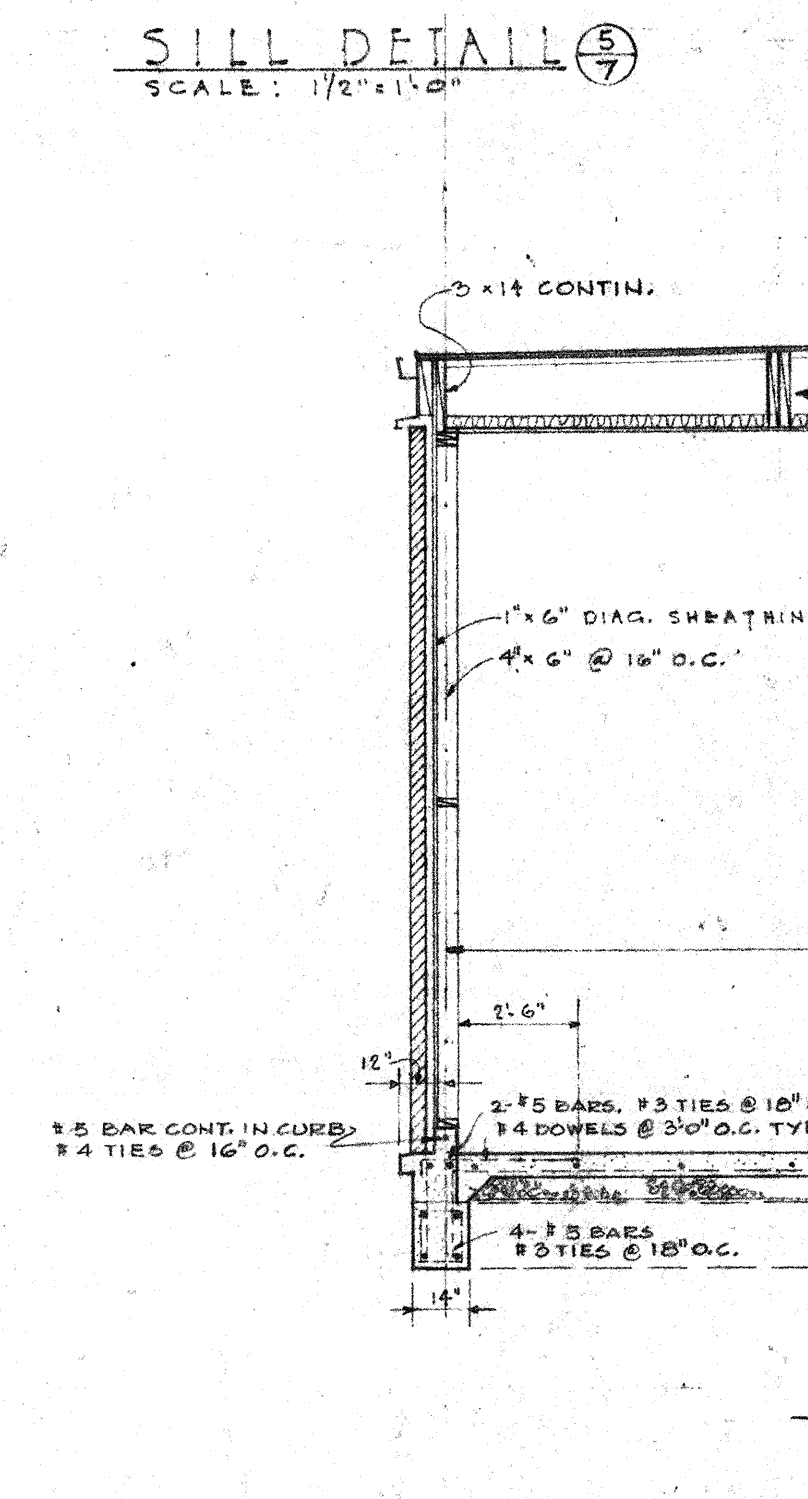
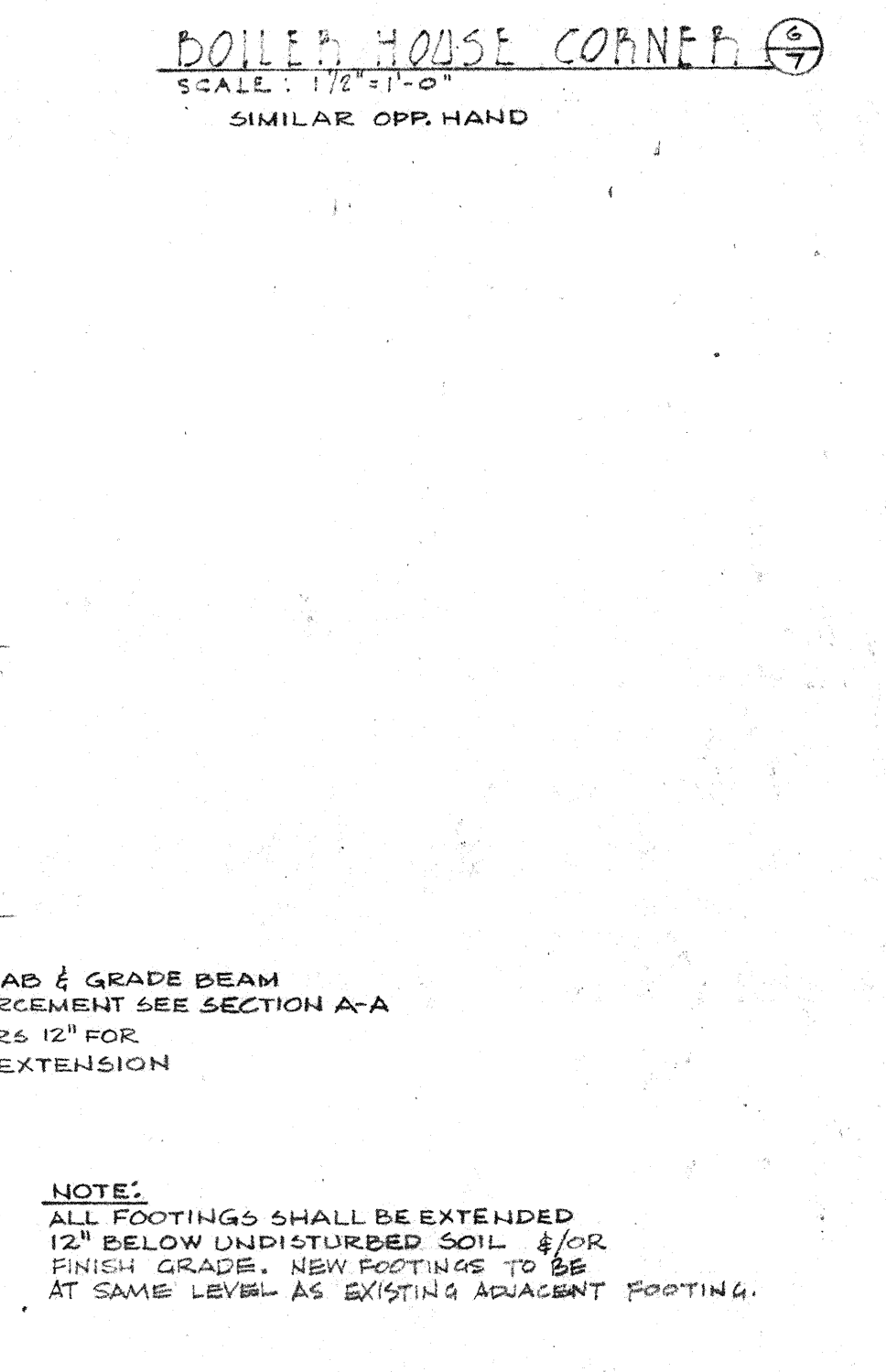
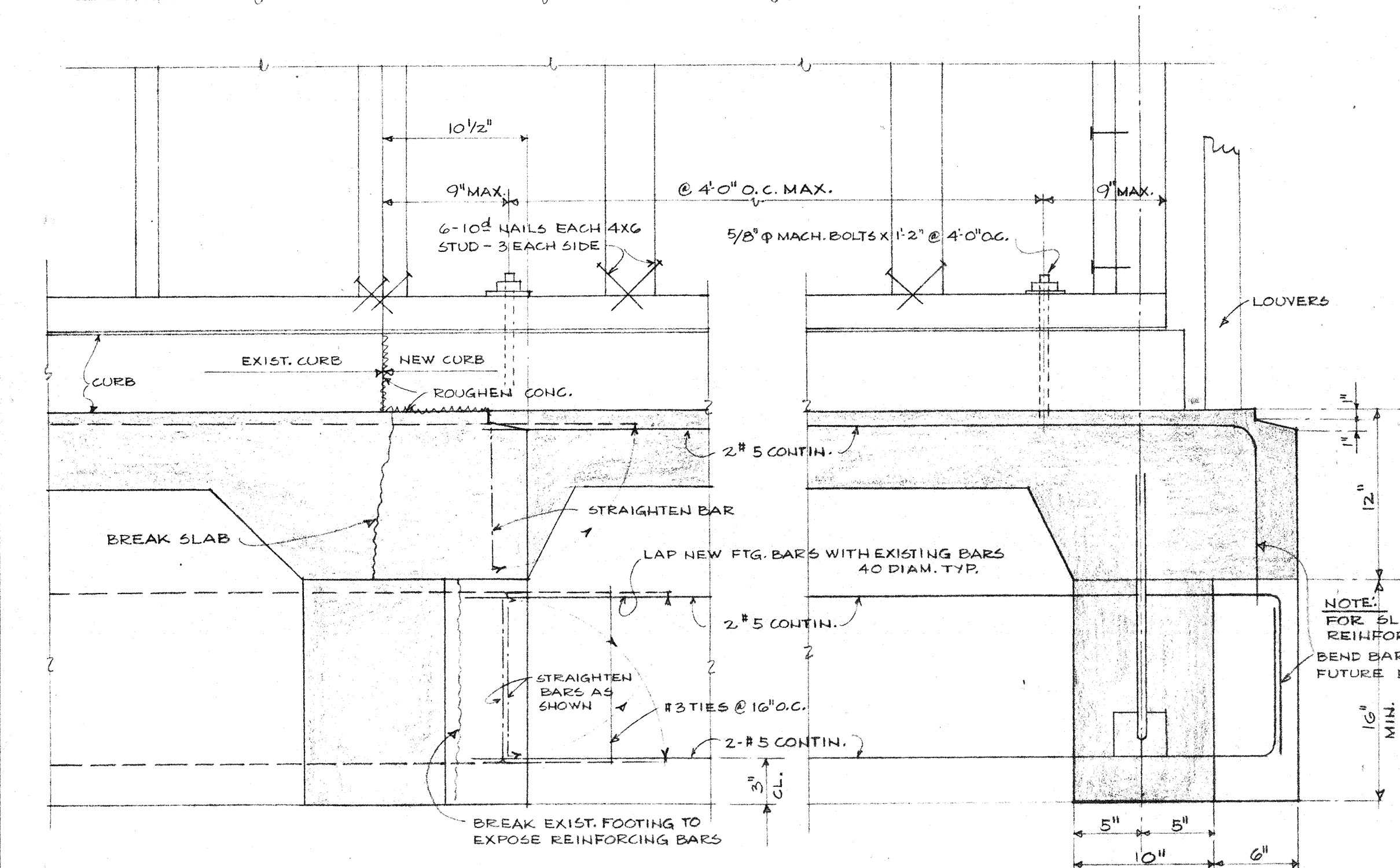
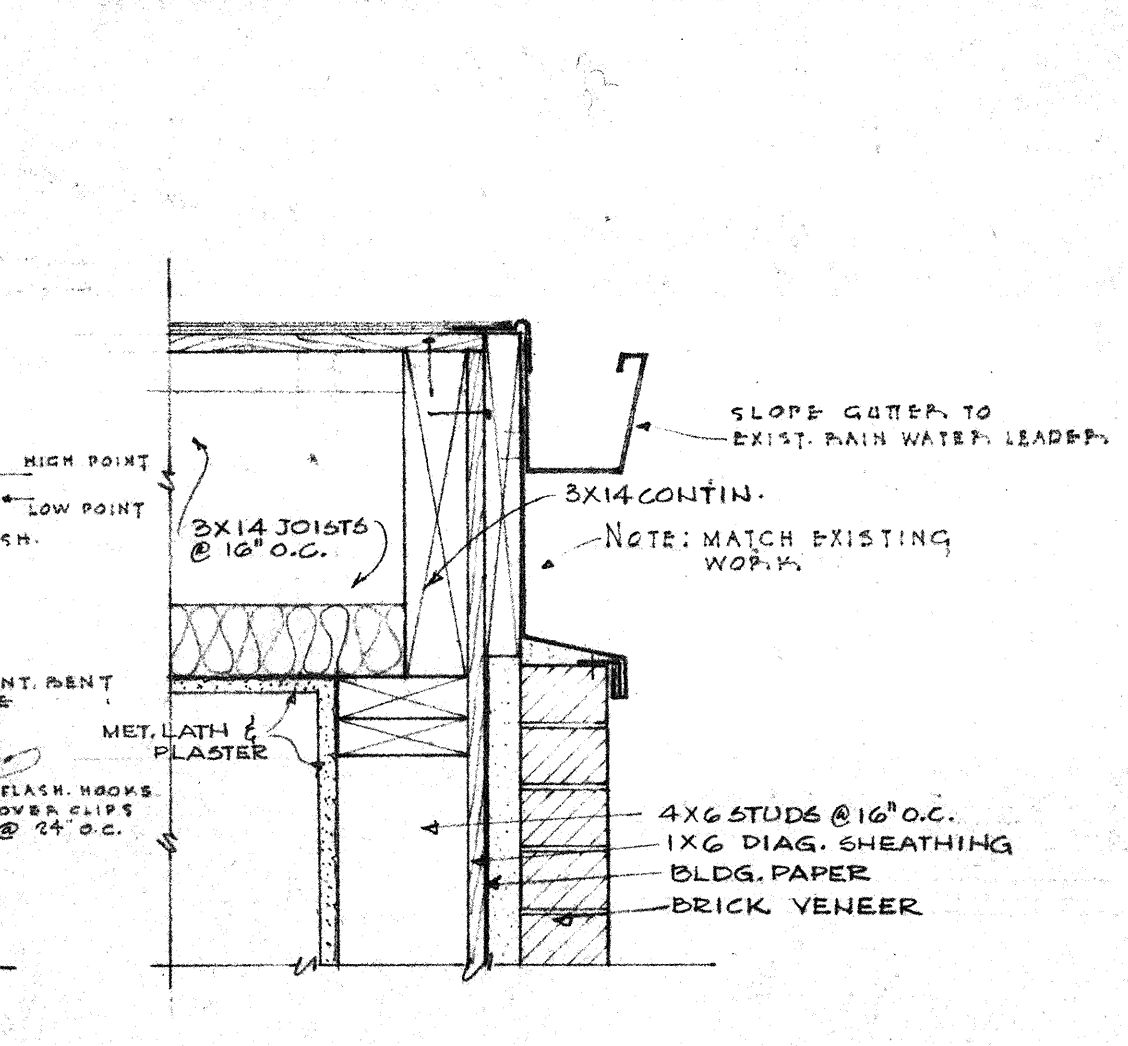
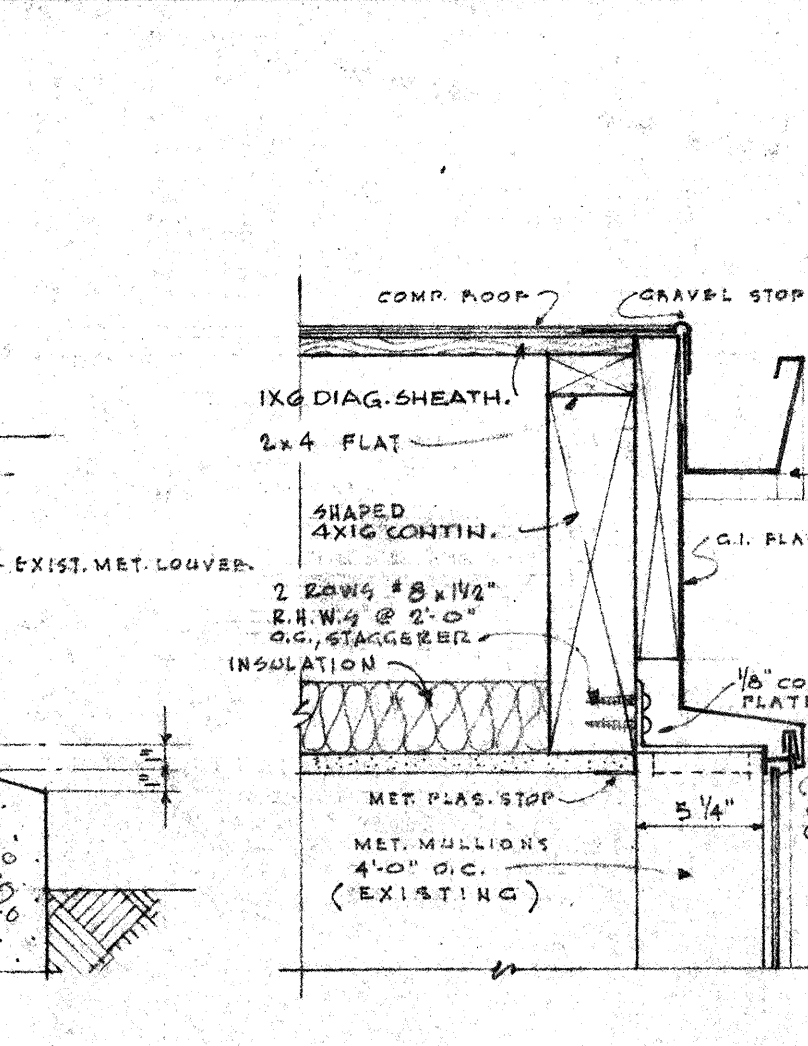
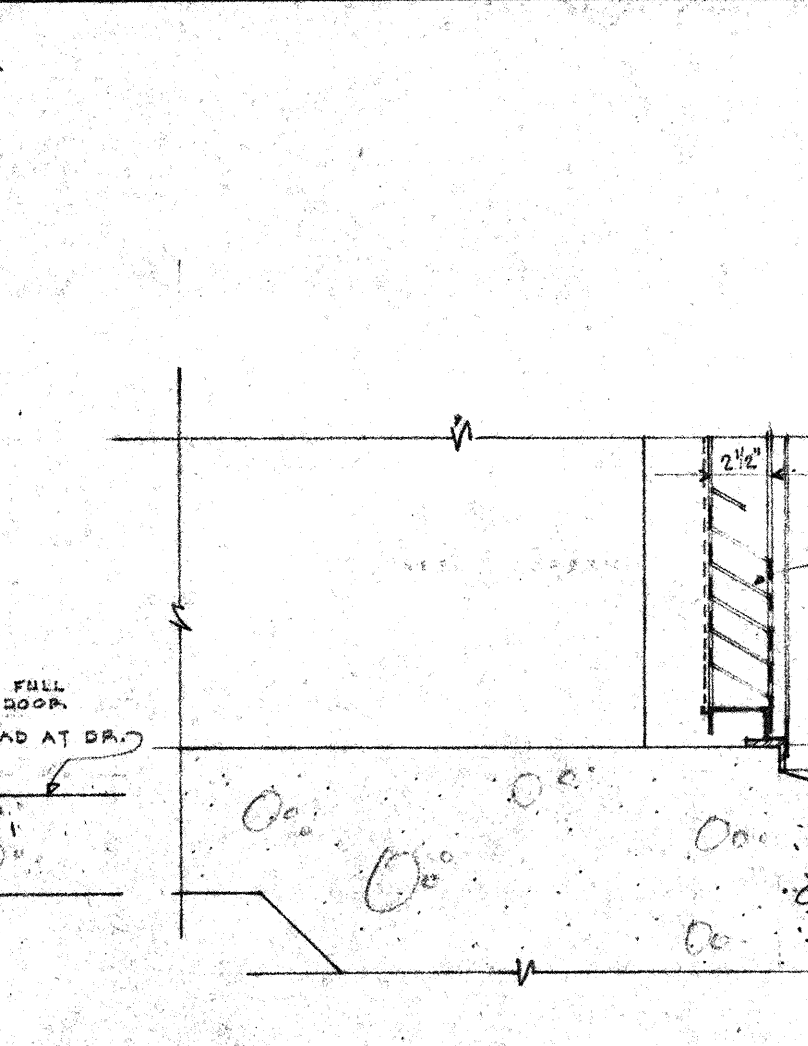
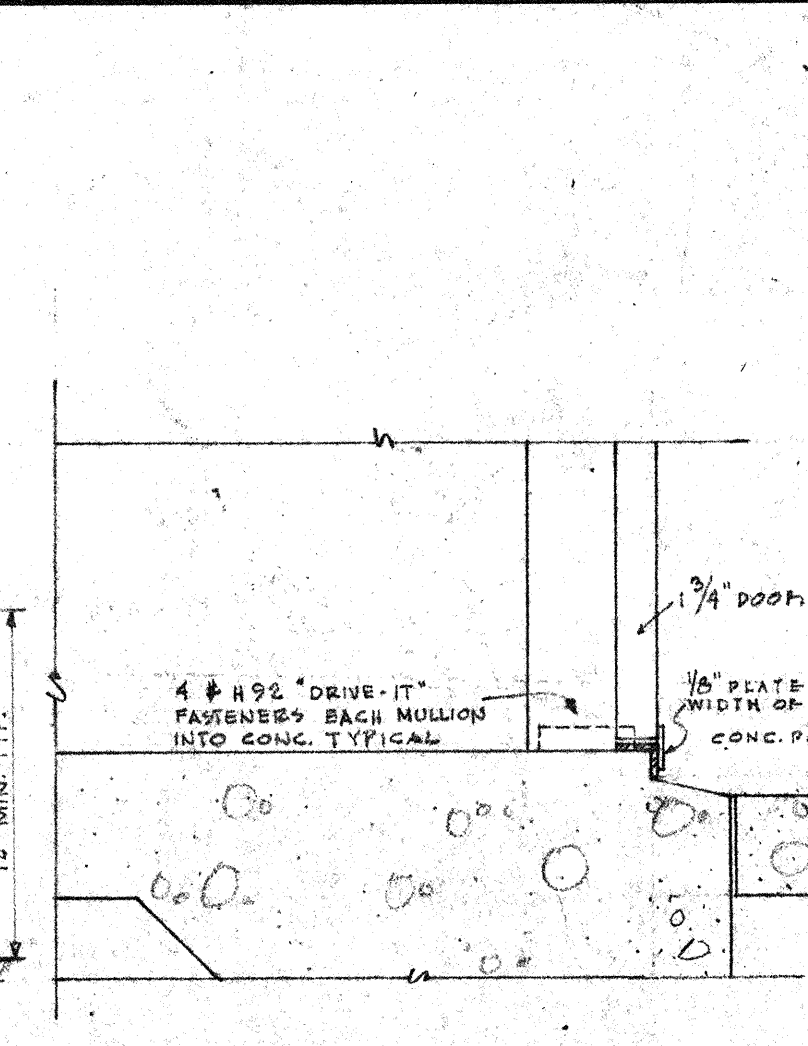
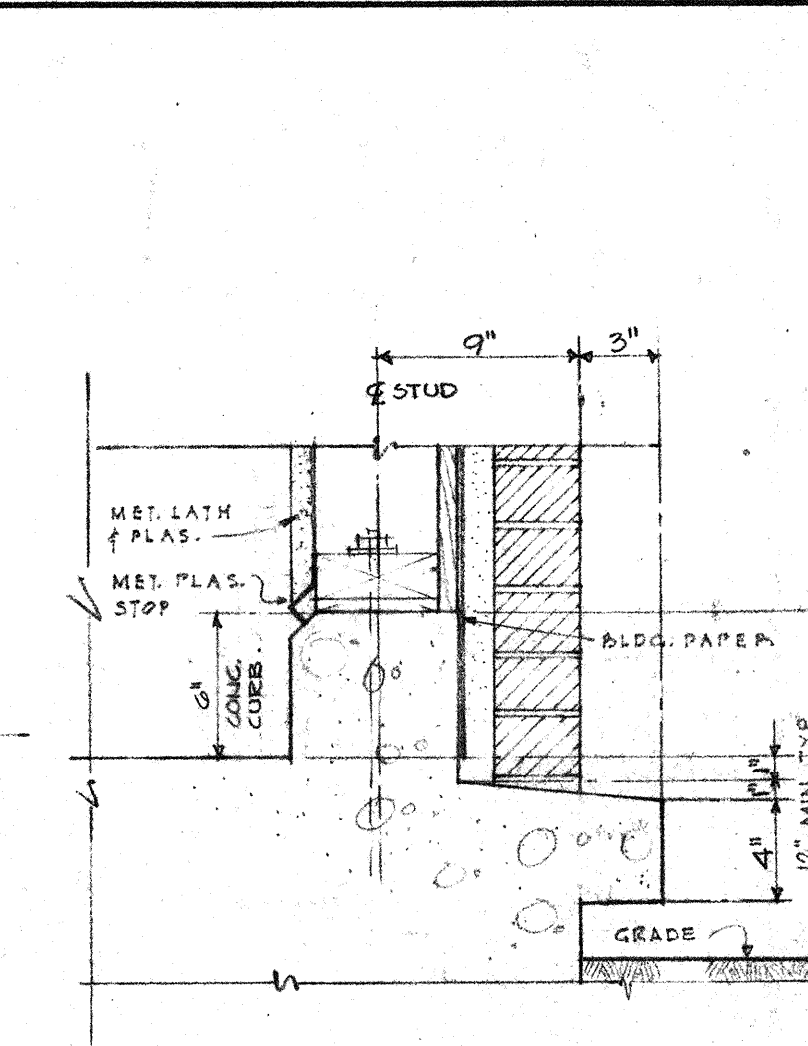
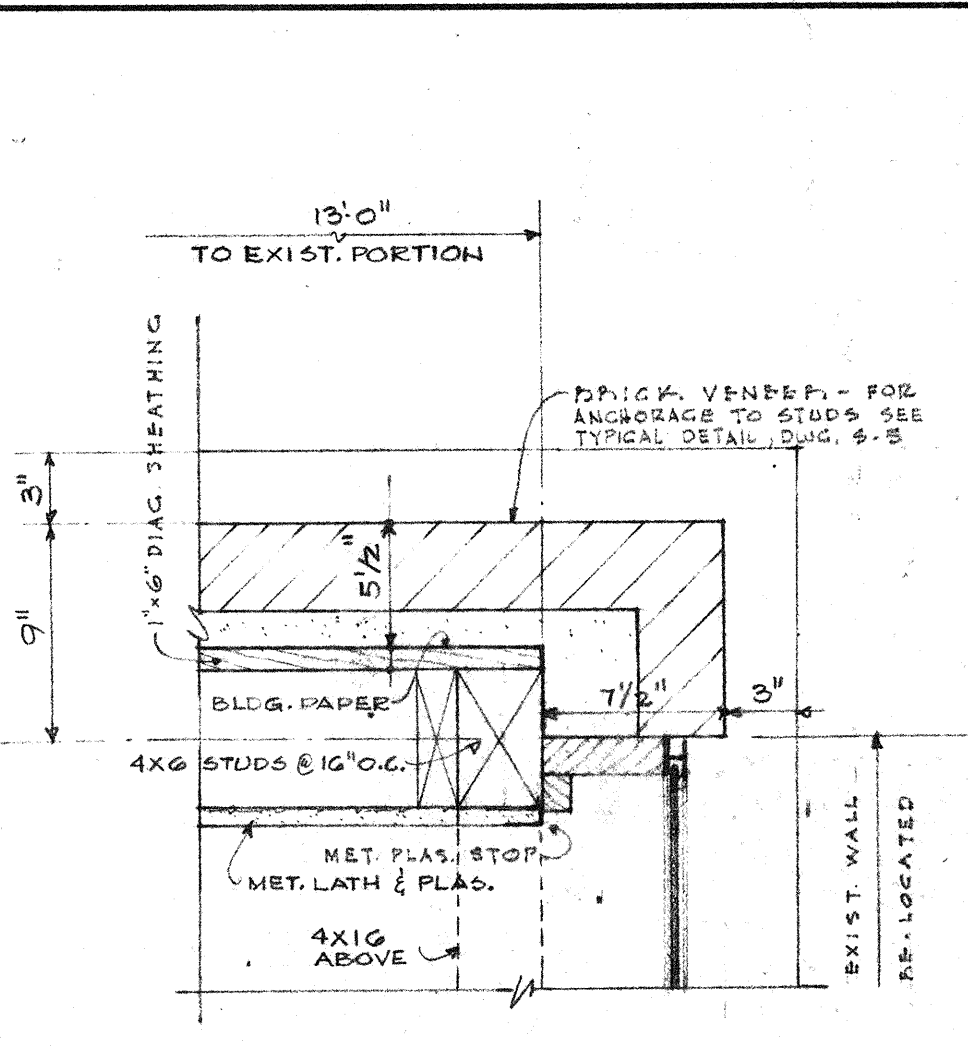
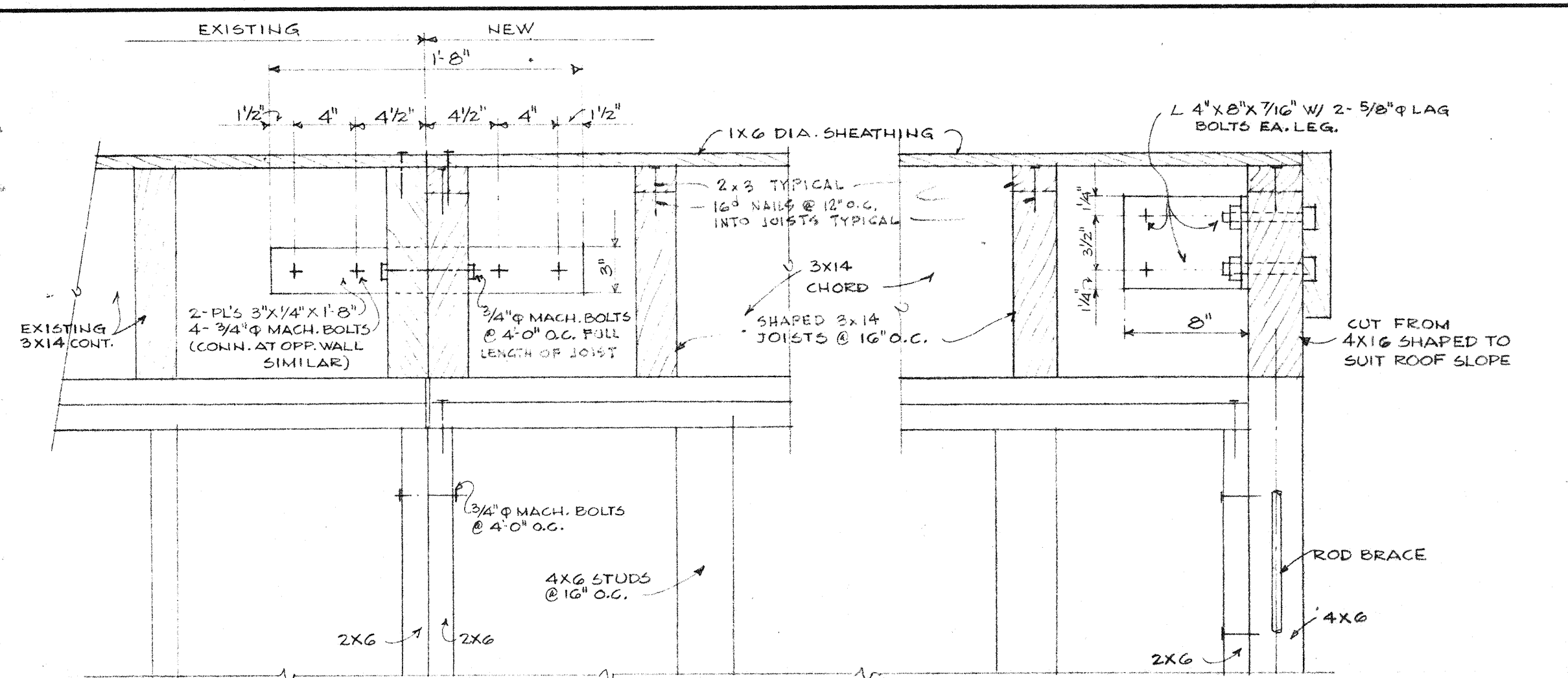
DETAIL SECTION 2/6  
SCALE: 3" = 1'-0"



5/6 STAINLESS STEEL TROUGH & PEG BD.  
PREPARATION RM. 227  
SCALE: 3" = 1'-0"

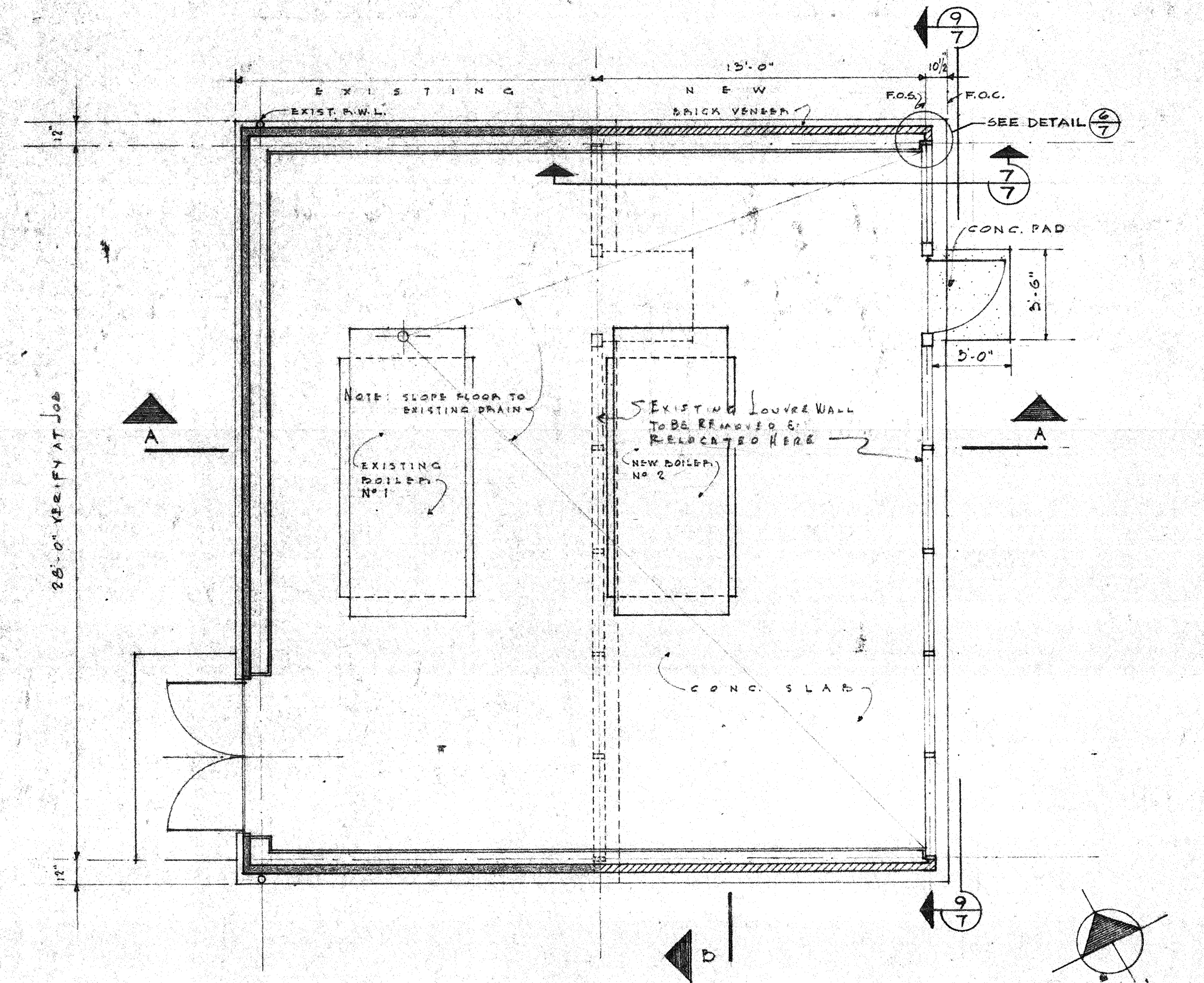
MISCELLANEOUS DETAILS			
SCIENCE BUILDING CONTRA COSTA COLLEGE			
CONTRA COSTA JUNIOR COLLEGE DISTRICT MARTINEZ CALIF.			
JOB NO. 58-14	DATE 12/25/52	DESIGNED BY JOHN CARL WARNECKE AIA	DATE 12/25/52
DRAWN I. DEY	APPROVED MICHAEL SULLIVAN, JR.	ASSOCIATE ARCHITECT CHARLES F. STROTHOFER AIA	DWG. NO. 6
CHECKED		ELECTRICAL ENGINEERS SMITH & GARTHORNE	OF 8





**TYP. NAILING FOR DIAG. SHEATH. WALLS & ROOF**  
 3-25 NAILS EA. 1X6 BOARD AT END BOARD & 2-25 NAILS EA. INTERMEDIATE BEARING. END JOINTS IN ADJACENT BOARDS SHALL BE SEPARATED BY AT LEAST TWO JOINT-OR STUD SPACES, AND THESE SHALL BE AT LEAST TWO BOARDS BETWEEN JOINTS ON SAME SUPPORT. BOARD RUNS SHALL BE AS LONG AS PRACTICABLE.

**GENERAL NOTES:**  
 MATCH ALL NEW WORK AND MATERIALS TO EXISTING WORK AND MATERIALS.  
 ALL BOLTS SHOWN THRU WOOD ARE 3/4" MACHINE BOLTS UNLESS OTHERWISE NOTED.  
 FOR NAILING SEE NAILING SCHEDULE SHT. # 3-5



**PLAN OF BOILER HOUSE**  
 SCALE: 1/4" = 1'-0"

REFER TO SHEET NO. 85 FOR STRUCTURAL GENERAL NOTES & TYPICAL DETAILS.

<b>BOILER HOUSE ADDITION</b> <b>SCIENCE BUILDING</b> <b>CONTRA COSTA COLLEGE</b> <b>SAN PABLO</b> <b>CONTRA COSTA JUNIOR COLLEGE DISTRICT</b>		<b>MARTINEZ</b> <b>CALIF.</b>
<b>JOHN CARL WARNECKE AIA</b> <b>ARCHITECT</b> 1111 NEW MONTGOMERY ST. SAN FRANCISCO 1700 FINANCIAL CENTER BLDG. OAKLAND	<b>CHARLES F. STROTHOFF AIA</b> <b>ASSOCIATE ARCHITECT</b> 885 MARKET STREET SAN FRANCISCO RICHMOND	DATE 21 DEC. 59 DWG. NO. <b>7</b> OF 8



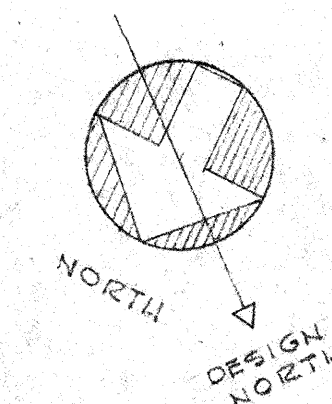
# SYMBOL LIST

- FLUORESCENT LIGHT OUTLET-CEILING OR PENDANT MTD.
- RECESSED CEILING OUTLET
- CLG. LIGHT OUTLET-SURFACE OR PENDANT MTD.
- BRACKET LIGHT OUTLET
- EXIT LIGHT OUTLET
- HEAVY DUTY RECEPT - 30A-3POLE-620UNDES
- " " " " 50A- " " " "
- SINGLE POLE WALL SWITCH UP 4'-6" U.O.N.
- THREE-WAY " " " " " "
- TWO POLE KEY SWITCH UP 4'-6" U.O.N.
- DUPLEX RECEPTACLE-PEDESTAL TYPE-SINGLE FACE-SEE NOTE 13
- DUPLEX RECEPTACLE UP 1'-6" U.O.N. SEE NOTE 11
- 120V HEAVY DUTY RECEPTACLE UP 1'-6" U.O.N.
- FLOOR BOX RECEPTACLE OUTLET
- FLOOR BOX FOR CONNECTION TO EQUIPMENT
- SERVICE UNIT FLOOR BOX
- SPECIAL FLOOR BOX
- JUNCTION BOX & COVER
- FRACTIONAL H.P. MOTOR DISCONNECT
- MOTOR OUTLET
- MOTOR DISCONNECT-NON-FUSED-TYPE "NO" SAFETY SW.
- THERMOSTAT OUTLET UP 5'-0" U.O.N.
- CLOCK OUTLET
- BELL OUTLET
- FUTURE INTER-COM OUTLET-UP 5'-0" U.O.N.
- DOUBLE PROJECTOR FIRE ALARM HORN
- FIRE ALARM BREAK GLASS STATION UP 4'-6" U.O.N.
- AUDIO-VISUAL AID OUTLET-UP 1'-6" U.O.N.
- TELEPHONE OUTLET UP 1'-6" U.O.N.
- SIGNAL TERMINAL CAB. UP 6'-0" TO TOP U.O.N.
- ELECTRIC PANELBOARD UP " " " "
- LIGHTING & POWER CONDUIT IN CEILING OR WALLS
- " " " " BELOW FLOOR OR GRADE
- SIGNAL SYSTEM CONDUIT IN CEILING OR WALLS
- " " " " BELOW FLOOR OR GRADE
- FIXTURE TAG-SEE SCHEDULE
- UNLESS OTHERWISE NOTED
- CIRCUIT
- CIRCUIT NO. 1 OF PANEL "A"
- W.P. WEATHERPROOF
- T.C. TIME CLOCK CONTROLLED (NUISANCE LIGHTS)
- RE. PNEUMATIC ELECTRIC

## GENERAL NOTES

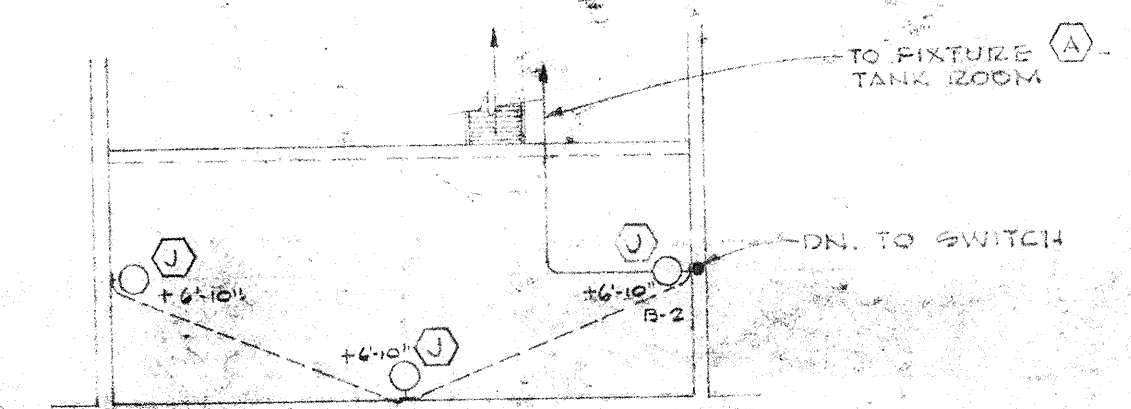
1. ALL CIRCUITS U.O.N. SHALL BE 2#12 A.W.G. IN 1/2" CONDUIT.
2. IF THE FIXTURE WEIGHS MORE THAN 6 POUNDS OR EXCEEDS 16 INCHES IN DIAMETER, IT SHALL NOT BE SUPPORTED ON THE SCREW-SHELF OF THE LAMPHOLDER. IF IT WEIGHS MORE THAN FIFTY (50) POUNDS, IT SHALL BE SUPPORTED INDEPENDENTLY OF THE OUTLET BOX (PARAGRAPH 2427) (b) TITLE 8. THE FIXTURE SHALL BE SUCH THAT IT CAN SWING HORIZONTALLY IN ANY DIRECTION FIFTEEN (15) DEGREES FROM THE VERTICAL.
3. MTD. DETAIL OF FLOOR BOX AS SHOWN ON SHEET E-3 INDICATES TYPICAL METHOD OF ENTRY INTO TABLE OR CABINET FROM FLOOR. OTHER CONDITIONS, SUCH AS EQUIP. WITHOUT TOE SPACE MAY REQUIRE THAT ENTRY BE MADE WITHIN BASE AREA OF THE EQUIP.
4. DISCONNECT SWITCHES FOR CLASSRM. HEATING UNITS MARKED NO. 1 ON PLAN AND MOTOR SCHEDULE, SHEET E-1, SHALL BE MTD. ON UNIT AS DIRECTED BY ARCHITECT.
5. DISCONNECT SWITCHES FOR EXHAUST FANS MARKED NO. 4 & 5 WILL BE FURNISHED BY MECH. CONTR.
6. MANUAL MTR. STARTERS FOR HEATING UNITS ABOVE CONFERENCE ROOMS AND ENTRANCES SHALL BE MTD. ON ADJACENT WALLS NEAR SCUTTLE.
7. FLOOR BOXES FOR FUTURE LABORATORY EQUIPMENT SHALL HAVE 12" PISTAILS COILED & TAPED.
8. RECEPTABLES, PLATES, FIXTURES & OUTLET BOXES SHOWN OR INDICATED TO BE MOUNTED ON CABINETS OR TABLES SHALL BE FURNISHED BY MFG. CONTRACTOR INSTALL IN CUTOUTS & CONNECT AS SHOWN.
9. PROVIDE JUNCTION BOXES INDICATED ON PLANS WITH 12" LONG PISTAILS AND BLANK COVERS.
10. WEATHER-PROOF RECEPTABLES SHOWN MTD. ON CAB. IN TANK ROOM NO. 210. SHALL BE PROVIDED WITH HUSSEL NO. 5210 COVER. RECEPTABLES & OUTLET BOXES TO BE INSTALLED BY CONTRACTOR.
11. ALL DUPLEX RECEPTACLE OUTLETS INDICATED TO BE INSTALLED BY CONTRACTOR IN OR ON EQUIPMENT OR ON WALL ABOVE EQUIPMENT SHALL BE INSTALLED HORIZONTALLY.
12. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EQUIP. & ALL OUTLETS FURNISHED ON TABLES AND CABINETS.
13. PEDESTAL TYPE RECEPTABLES SHALL MATCH RECEPTABLES FURNISHED WITH OTHER EQUIPMENT.
14. ALL MOTOR CONTROLLERS WILL BE FURNISHED BY MECH. CONTR. & SHALL BE INSTALLED & CONNECTED BY ELECTRICAL CONTR. MOTOR DISCONNECTS TO BE FURNISHED, INSTALLED & CONNECTED BY ELECTRICAL CONTR. U.O.N.-SEE SPEC.

S I T E P L A N  
SCALE: 1" = 30'

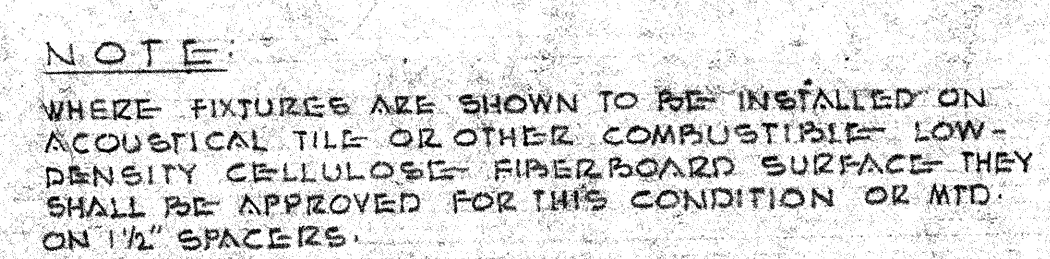


<b>ELECTRICAL SITE &amp; LOCATION PLAN</b> <b>SCIENCE BUILDING</b> <b>CONTRA COSTA COLLEGE</b> <b>SAN PABLO</b> <b>CONTRA COSTA JUNIOR COLLEGE DISTRICT MARTINEZ CALIF.</b>		DATE DEC. 21, 1969
JOB NO. 58-14	DRAWN J.W.	CHECKED S.H.A.
GRAHAM & HAYES STRUCTURAL ENGINEERS GEORGE K. BROKAW MECHANICAL ENGINEER SMITH & GARTHOENE ELECTRICAL ENGINEERS		JOHN CARL WARNECKE AIA ARCHITECT 111 NEW MONTGOMERY ST., SAN FRANCISCO 1700 FINANCIAL CENTER BLDG., OAKLAND
CHARLES F. STROTHOFF AIA ASSOCIATE ARCHITECT 855 MARKET STREET 255 10TH STREET SAN FRANCISCO RICHMOND		DWG. NO. E-1





PLAN  
MEZZANINE  
ABOVE COOLER 238



TYPE OF CONTRACT - <b>DESIGN-BUILD</b> (Type of contract)		<b>ELECTRICAL LIGHTING &amp; SIGNAL SYSTEMS</b>	
<b>19584</b> <b>AWARDED 5-27-1958</b> <i>M. M. Seaberg</i> (Project or contract number)		<b>SCIENCE BUILDING</b> <b>CONTRA COSTA COLLEGE</b> <b>SAN PABLO COLLEGE</b> <b>CONTRA COSTA JUNIOR COLLEGE DISTRICT MARTINEZ CALIF.</b>	
<b>JOB NO.</b> <b>19584</b> <b>DRAWN</b> <b>SAW</b> <b>CHECKED</b> <b>SHA</b>	<b>GRAMAM &amp; HAYES</b> <b>STRUCTURAL ENGINEERS</b> <b>GEORGE R. GRAMAM</b> <b>MICHAEL J. HAYES</b> <b>SMITH &amp; GARTHOORNE</b> <b>ELECTRICAL ENGINEERS</b>	<b>JOHN CARL WARNECKE AIA</b> <b>ARCHITECT</b> <b>CHARLES F. STROTHOFF AIA</b> <b>ASSOCIATE ARCHITECT</b>	<b>DATE</b> <b>DEC. 25</b> <b>DWG NO.</b> <b>E-2</b>
	<b>111 MARSH WOODBURY ST. SAN FRANCISCO</b> <b>1700 FINANCIAL CENTER BLDG. OAKLAND</b>	<b>835 MARKET STREET</b> <b>208 10TH STREET</b> <b>SAN FRANCISCO RICHMOND</b>	



# MOTOR SCHEDULE

NO.	EQUIPMENT	HP	VOLTS	Ø
1	HTG. UNIT	1/2	120	1
2	HTG. UNIT	1/2	120	1
3	HTG. UNIT	1/2	120	1
4	EXH. FAN	1/2	120	1
5	EXH. FAN	1/2	120	1
6	CIRC. PUMP	1/2	120	1
7	PRESSURE BOOSTER PUMP	3/4	208	3
8	CIRC. PUMP	1/2	120	1
9	CIRC. PUMP	1/2	208	3
10	CIRC. PUMP	3/4	208	3
11	EXH. FAN	1/2	208	3
12	COMPRESSOR	2	208	5
13				
14	AIR COMPRESSOR	7 1/2	208	5
15	HUMIDIFIER FAN	1/4	120	1

## MOUNTING DETAIL OF FLOOR BOX

DO NOT SCALE

## SECTION A-A ACTUAL ON WEST WALL - ROOM 222 SIMILAR IN OTHER AREAS

## DETAIL LABORATORY - FLOOR BOX

1. DIMENSIONS AS REQUIRED  
2. FLOOR BOXES SHOWN ABOVE SHALL BE 8 FT. LONG - 18 IN. WIDE - 4 FT. LONG  
3. BOXES SHALL BE POSITIONED SO THAT HINGE IS ON SOUTH END

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

## WIRING DIAGRAM CIRCULATING PUMP N° 9

NOTE:  
1. ALL WIRING & CONDUIT BY ELECT. CONTR.  
2. ALL DEVICES BY MECHANICAL CONTRACTOR  
3. ALL WIRING SHOWN IN BOILER RM. 235

## WIRING DIAGRAM CIRCULATING PUMPS N° 9 & 10

NOTE:  
1. ALL WIRING & CONDUIT BY ELECTRICAL CONTR.  
2. ALL DEVICES BY MECHANICAL CONTRACTOR  
3. ALL WIRING SHOWN IN BOILER RM. 235

## SCHEMATIC WIRING DIAGRAM BOILER CONTROLS

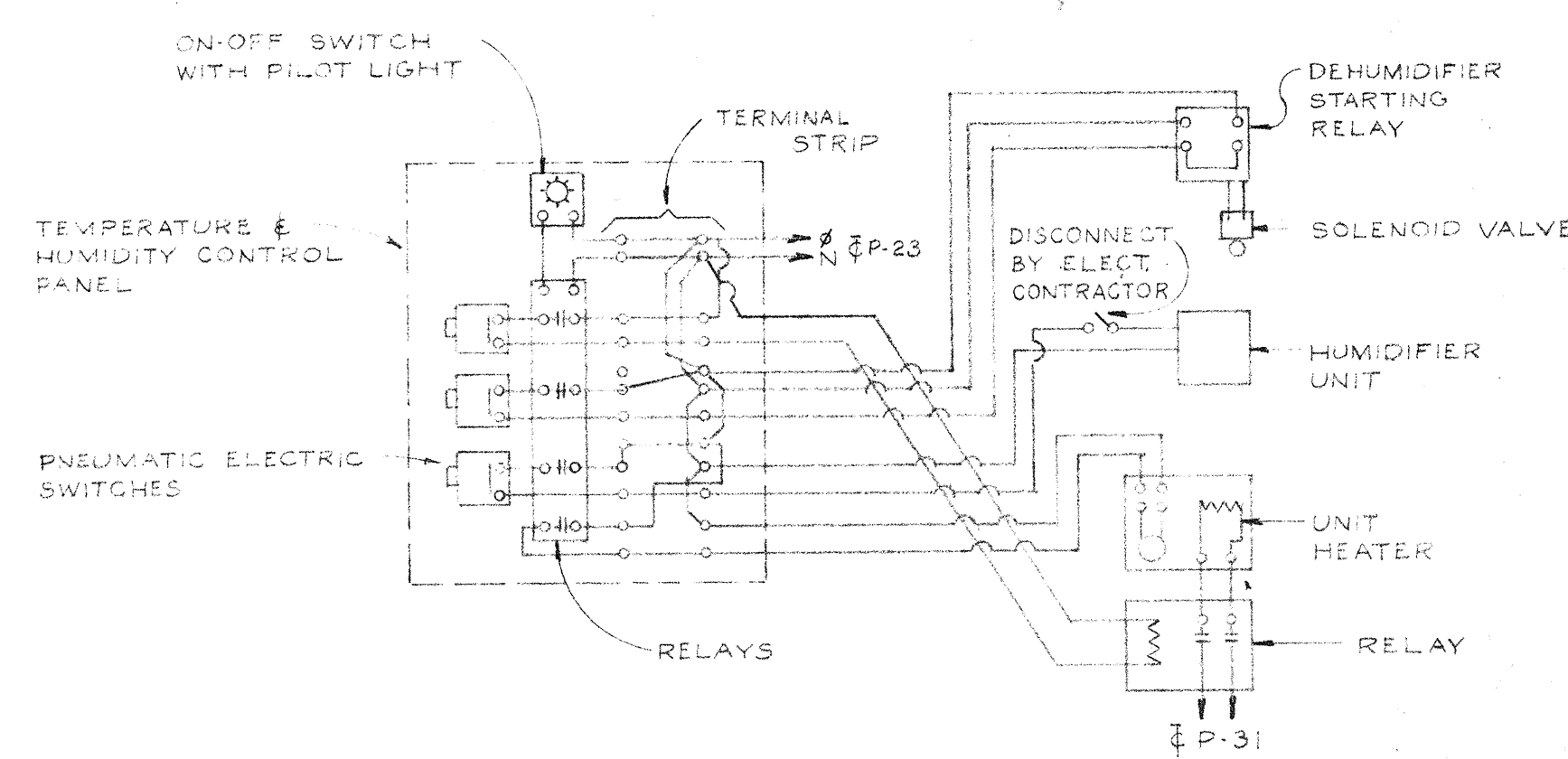
NOTE:  
1. ALL WIRING & CONDUIT BY ELECT. CONTRACTOR  
2. ALL DEVICES BY MECHANICAL CONTRACTOR  
3. ALL WIRING SHOWN IN BOILER RM. 235

## WIRING DIAGRAM ROOM 4 TOILET EXHAUST FAN

NOTE:  
1. ALL WIRING & CONDUIT BY ELECTRICAL CONTRACTOR  
2. ALL DEVICES BY MECHANICAL CONTRACTOR

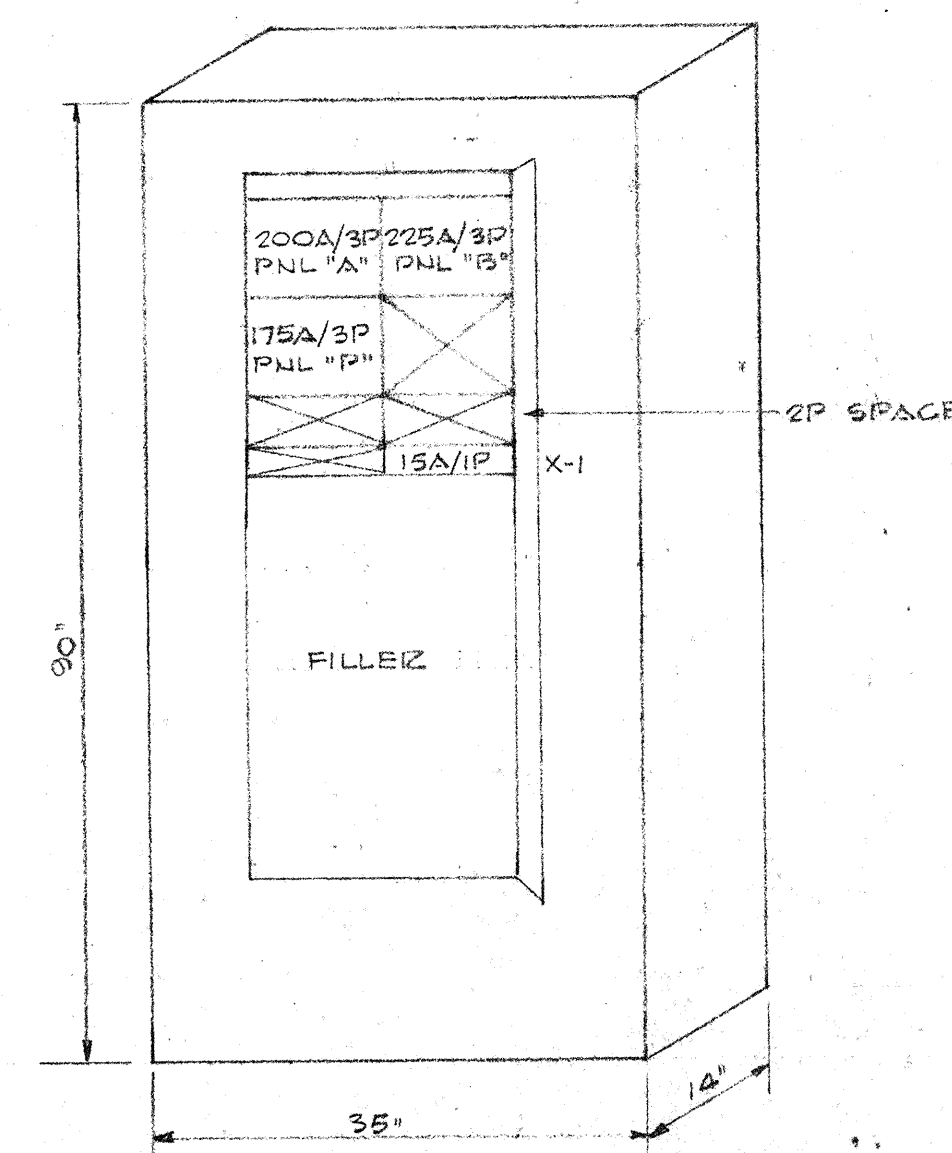
ELECTRICAL POWER & RECEPTACLE SYSTEMS		SCIENCE BUILDING	
CONTRA COSTA COLLEGE		CONTRA COSTA JUNIOR COLLEGE DISTRICT	
SAN PABLO		MARTINEZ, CALIF.	
JOHN K. WARNECKE AIA		CHARLES F. STROTHOFF AIA	
A E C H I T E C T		ASSOCIATE ARCHITECT	
111 NEW MONTGOMERY ST. - SAN FRANCISCO		885 MARKET STREET - SAN FRANCISCO	
1708 FINANCIAL CENTER BLDG. - OAKLAND		1070 10TH STREET - RICHMOND	
DRAWN BY: GEORGE K. BROKAW		CHECKED BY: SMITH & GARTHORNE	
MECHANICAL ENGINEER		ELECTRICAL ENGINEERS	
DATE: DEC 21, 57		DWG. NO. E-3	





WIRING DIAGRAM  
TEMPERATURE AND HUMIDITY CONTROL  
INCUBATOR ROOM

NOTE:  
1. ALL WIRING & CONDUIT BY ELECTRICAL CONTRACTOR  
2. ALL DEVICES BY MECHANICAL CONTRACTOR U.O.N.  
3. SEE PLAN SHEET E-3 FOR LOCATION OF EQUIPMENT



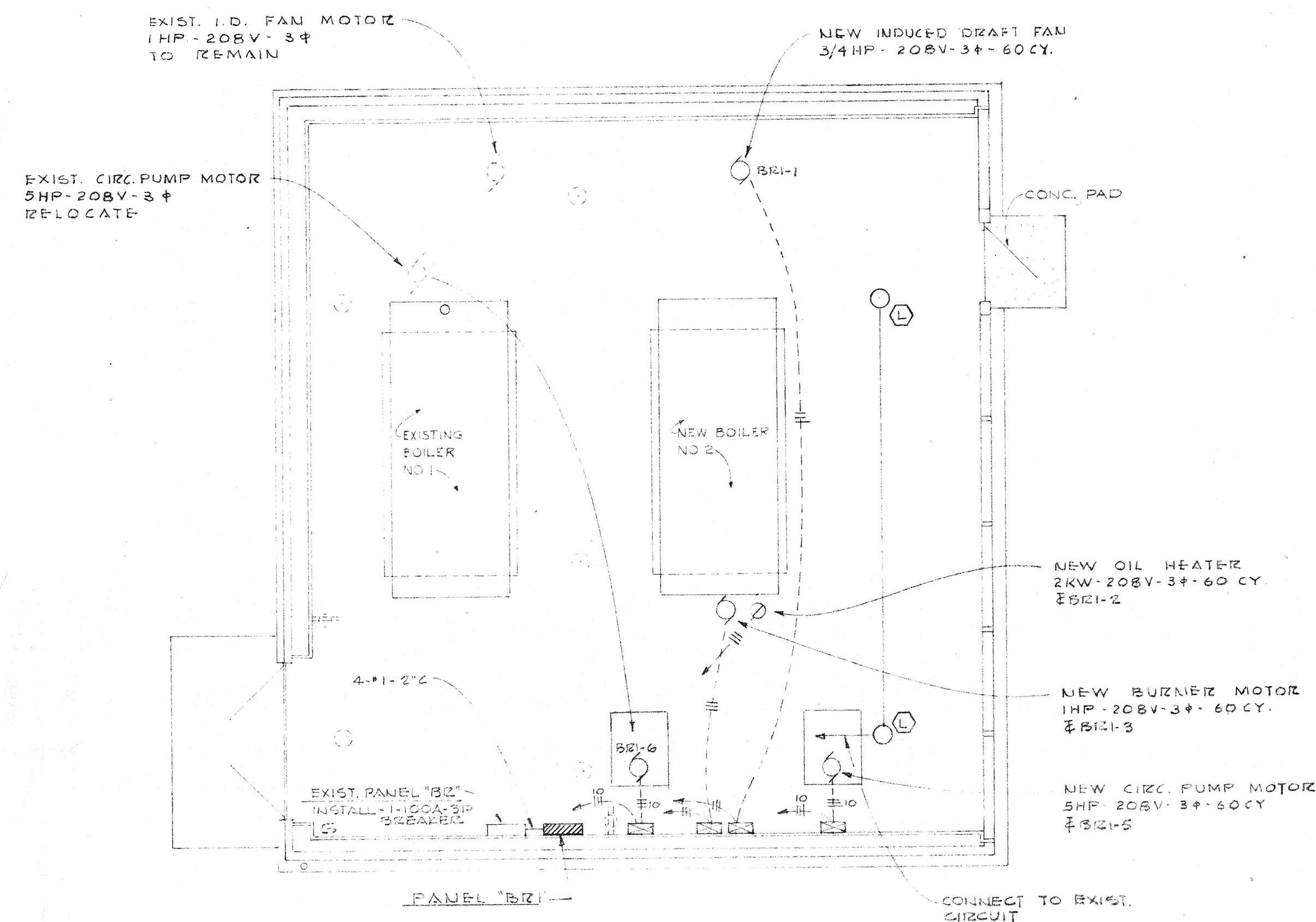
DISTRIBUTION PANEL  
120/208V-3P-4W

## PANELBOARD SCHEDULE

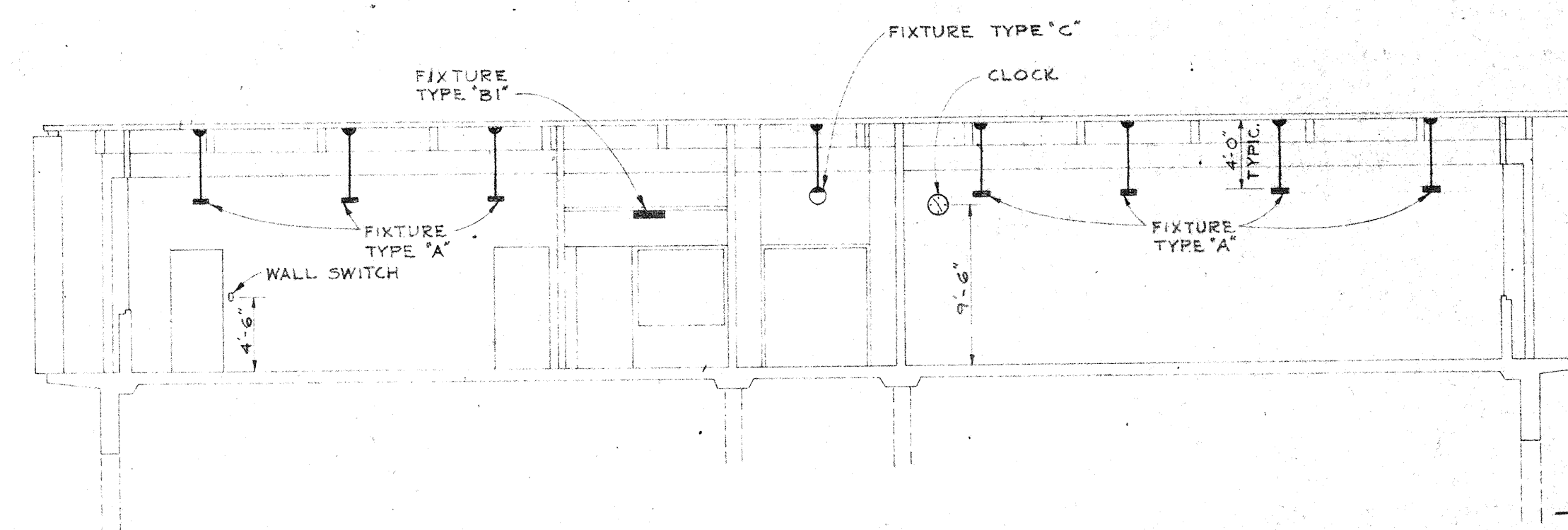
PANEL NAME	BREAKER	DATA	TYPE	LOCATION	REMARKS
A	40	20	225A BUS	CONFERENCE	#5 1 THRU 40 ARE 20A/1P
B	36	20	225A BUS	CONFERENCE	#5 1 THRU 36 ARE 20A/1P
P	3	15	225A BUS	MECH. EQUIPMENT	#5 20, 21, 23 ARE 15A/1P
	20	3	225A BUS		#5 1 THRU 16, 22, 24 ARE 20A/1P; #19 16 30A/1P
	1	30	NEUTRAL		#5 31, 32, 34 ARE 20A/1P
	1	40			#5 33 15 40A/2P
	1	50			#5 25, 26, 30 ARE 15A/3P
					#5 27 16 20A/3P; #28 16 40A/3P; #29 16 50A/3P
B2	3	15	400A LUGS	BOILER HOUSE	#1-3 15A/3P
	2	50			#5 46-60A/3P
					#4 7-10-30 60A/2P

## FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMP
A	4 FT. SUSPENSION MTD. FLUORESCENT FIXTURE 45" X 45" POLYSTYRENE LOUVERS & SIDE PANELS - WHITE BAKED ENAMEL	BENJAMIN	2-40 W. R.S.
A1	SAME AS 'A' EXCEPT CEILING MTD. AND TOP REFLECTOR	BENJAMIN	2-40 W. R.S.
B	SAME AS 'A' EXCEPT 4 LAMPS STEM LENGTH 3'-8"	BENJAMIN	4-40 W. R.S.W.V.
B1	SAME AS 'B' EXCEPT CEILING MTD. & TOP REFLECTOR	BENJAMIN	4-40 W. R.S.
C	PENDANT MTD. INCANDESCENT FIXTURE WHITE OPAL GLASS BOWL - SATIN ALUMINUM STEM & CANOPY - STD. STEM LENGTH	SMOOTH-HOLMAN	1-500 W. I.F.
C1	SAME AS 'C' EXCEPT SIZE - 40" O.A. LENGTH	SMOOTH-HOLMAN	1-300 W. I.F.U.O.N.
D	PORCELAIN LAMPHOLDER - KEYLESS	P & S ALABAX	1-100 W. I.F.
E	BRACKET MTD. FIXTURE - SATIN CHROME FINISH - WHITE OPAL ENCLOSING GLOBE	PRESCOLITE	1-150 W. I.F.
F	STANDARD RLM. DOME REFLECTOR	SMOOTH-HOLMAN	1-150 W. I.F.
G	PENDANT MTD. - 24" STEM LENGTH CONVEZ	SMOOTH-HOLMAN	1-200 W. I.F.
H	CLG. MT. HALF SPHERE OPAL GLASS - SATIN CHROME FINISH	SHAPER	1-150 W. I.F.
J	INCANDESCENT SHADE UNIT	SWINELIEZ	1-150 W. I.F. 30 FL.
K	PENDANT MTD. EXIT SIGN - 4" LETTERS - SINGLE FACE - STEM LENGTH 66"	DAY-BRITE	2-25 W. I.F.
L	FIXTURE TO MATCH EXISTING		1-150 W. I.F.



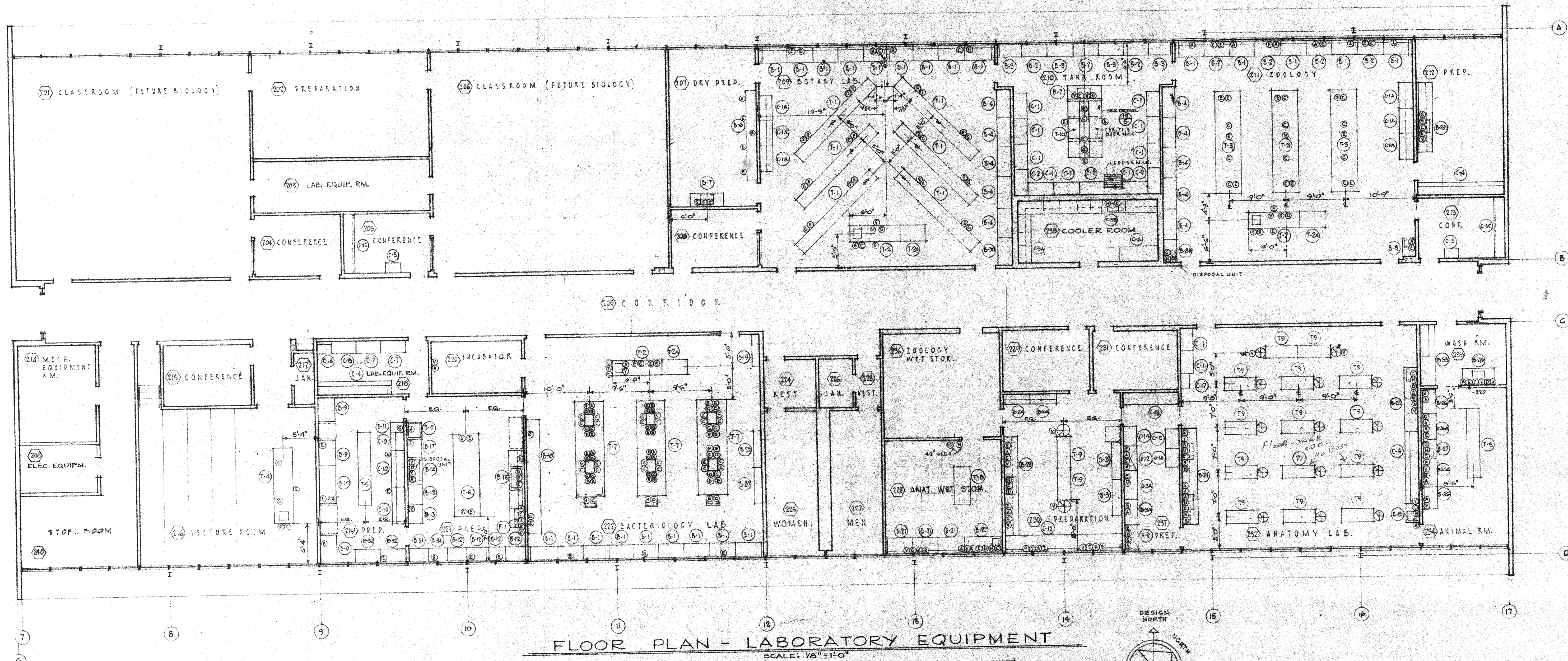
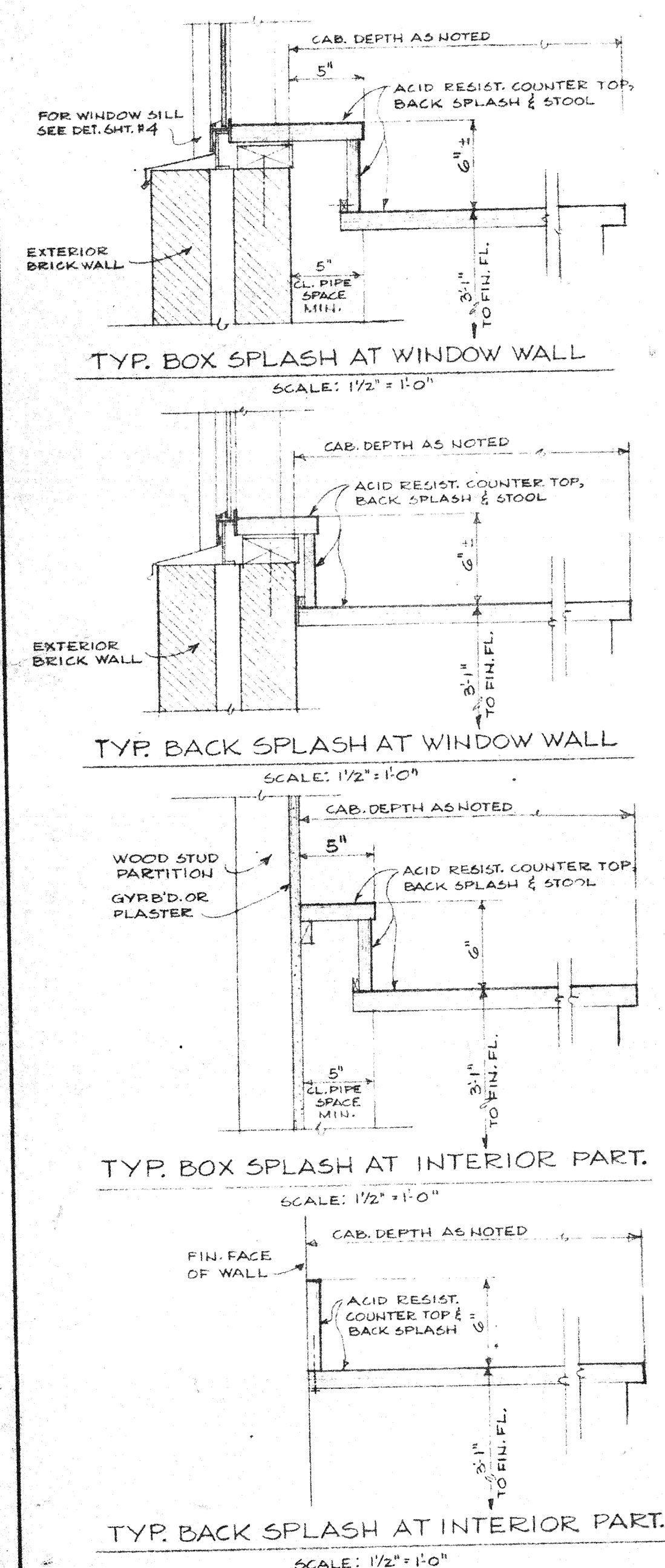
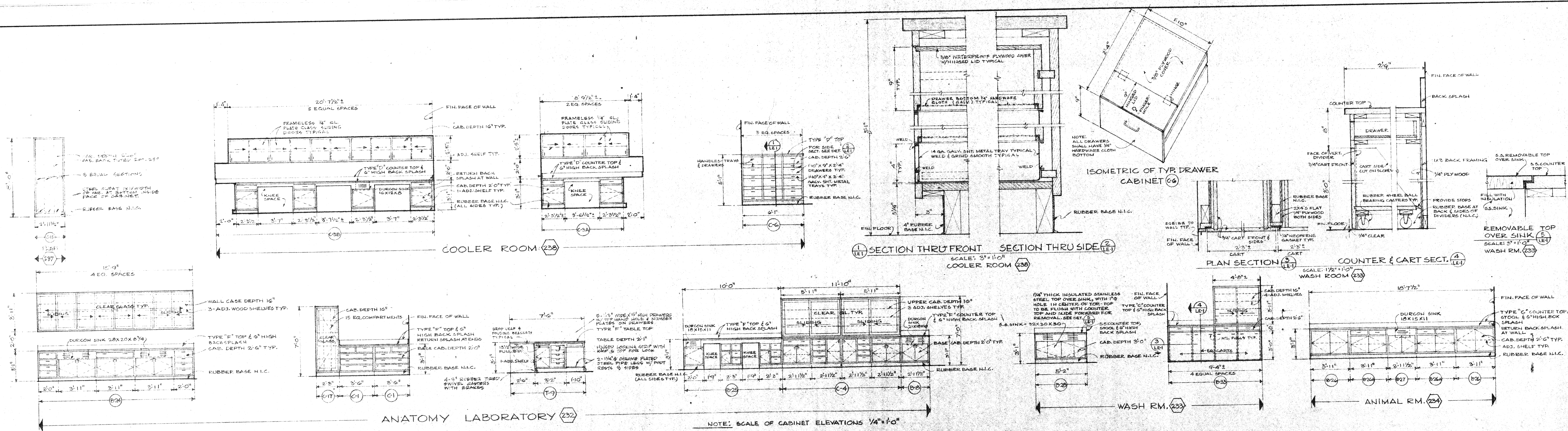
PLAN OF BOILER HOUSE  
SCALE: 1/4" = 1'-0"



SECTION A-A  
TYPICAL FIXTURE MOUNTING AND WALL ELEVATIONS  
SCALE 1/8" = 1'-0"

JOB NO. 58-14		DRAWN J.W.		CHECKED S.H.A.	
GRAHAM & HAYES STRUCTURAL ENGINEERS		GEORGE K. BROKAW MECHANICAL ENGINEER		SMITH & GARTHORNE ELECTRICAL ENGINEERS	
JOHN CARL WARNECKE AIA		CHARLES F. STROTHOFF AIA		DATE DEC-21/69	
111 NEW MONTGOMERY ST. SAN FRANCISCO 94104		875 MARKET STREET SAN FRANCISCO RICHMOND		DWG. NO. E-4	

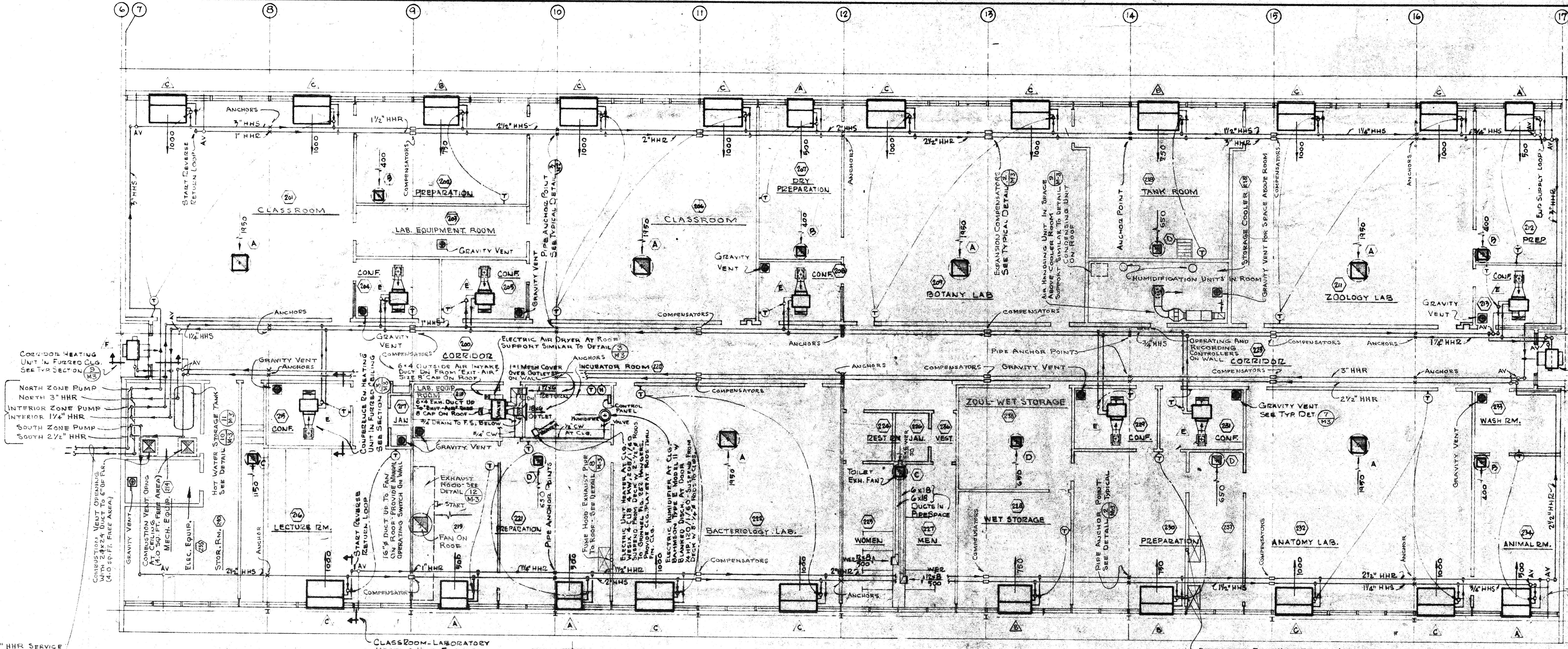




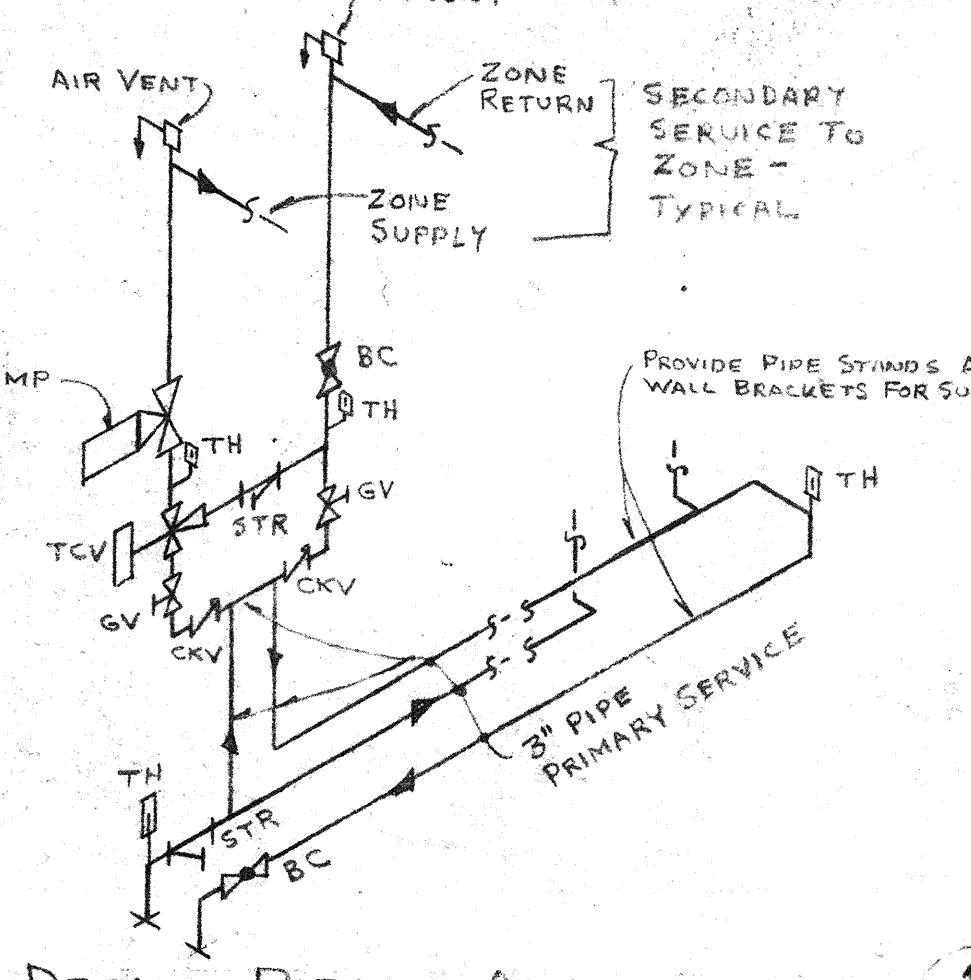




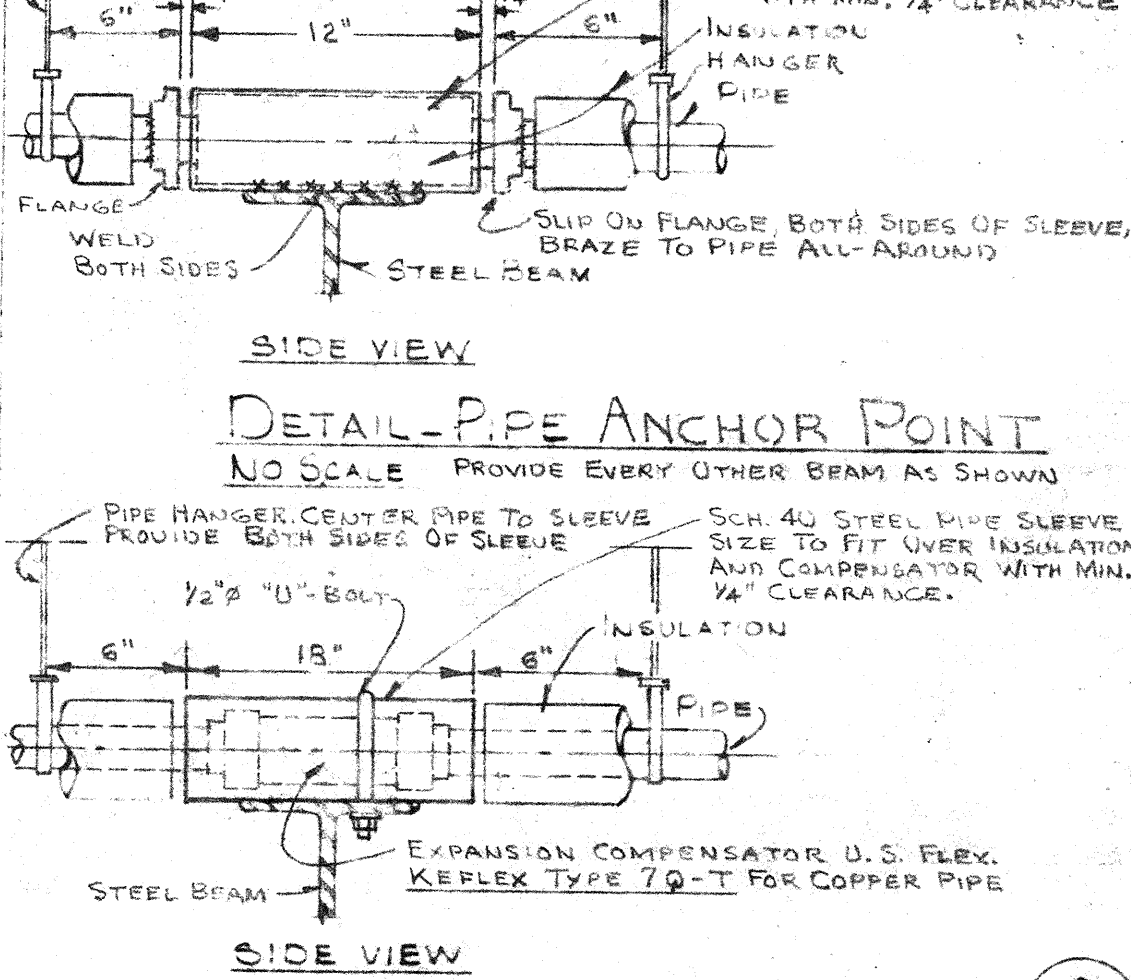




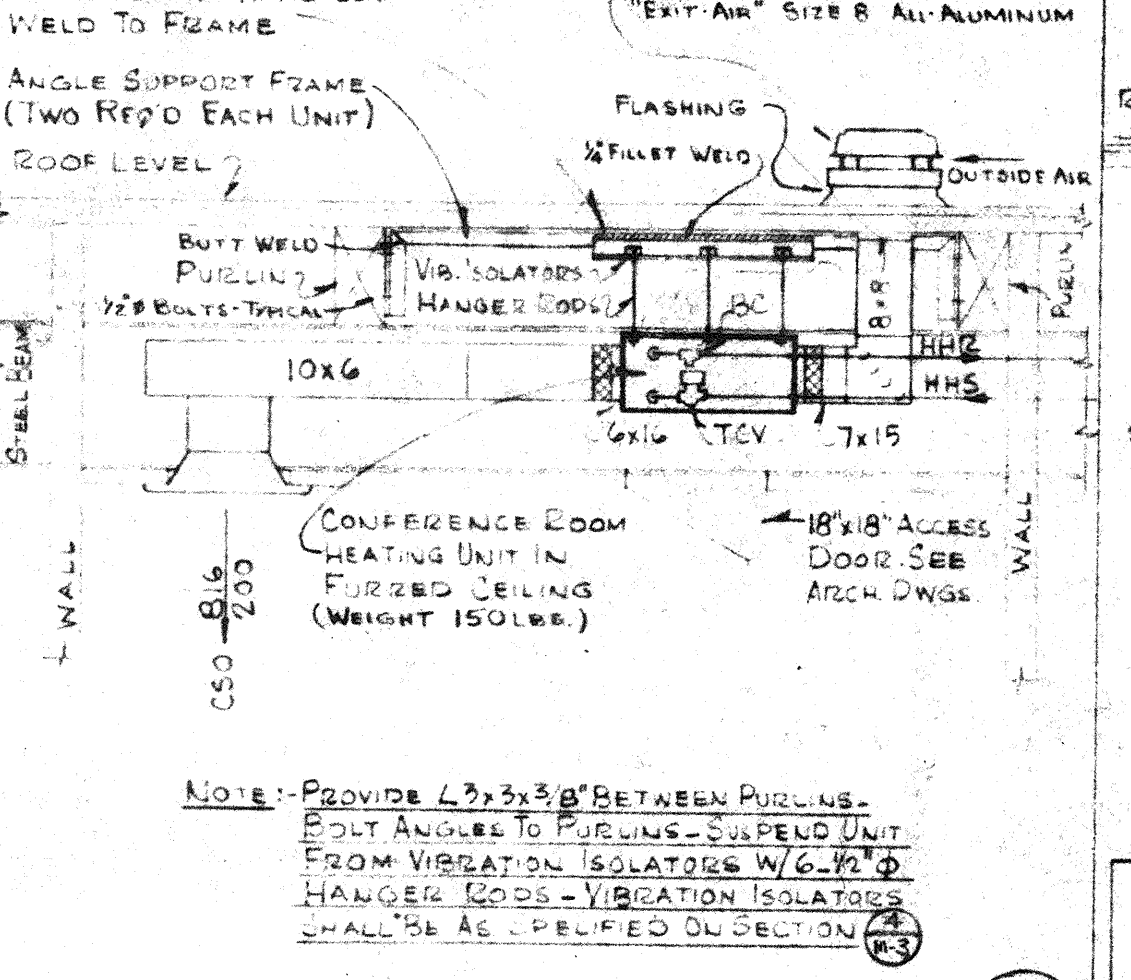
1st FLOOR PLAN  
SCALE: 1/8" = 1'-0"



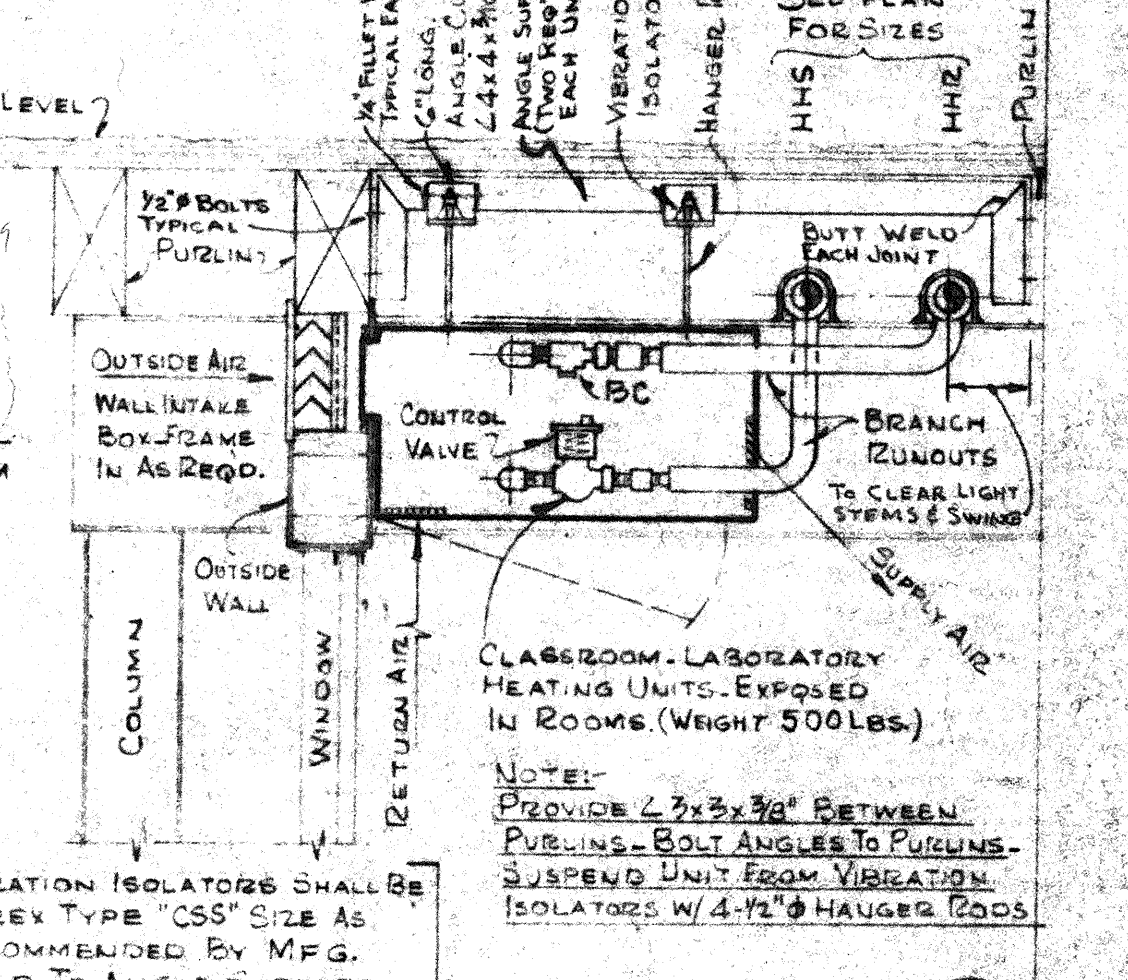
DETAIL - PIPING ARRANGEMENT  
NO SCALE



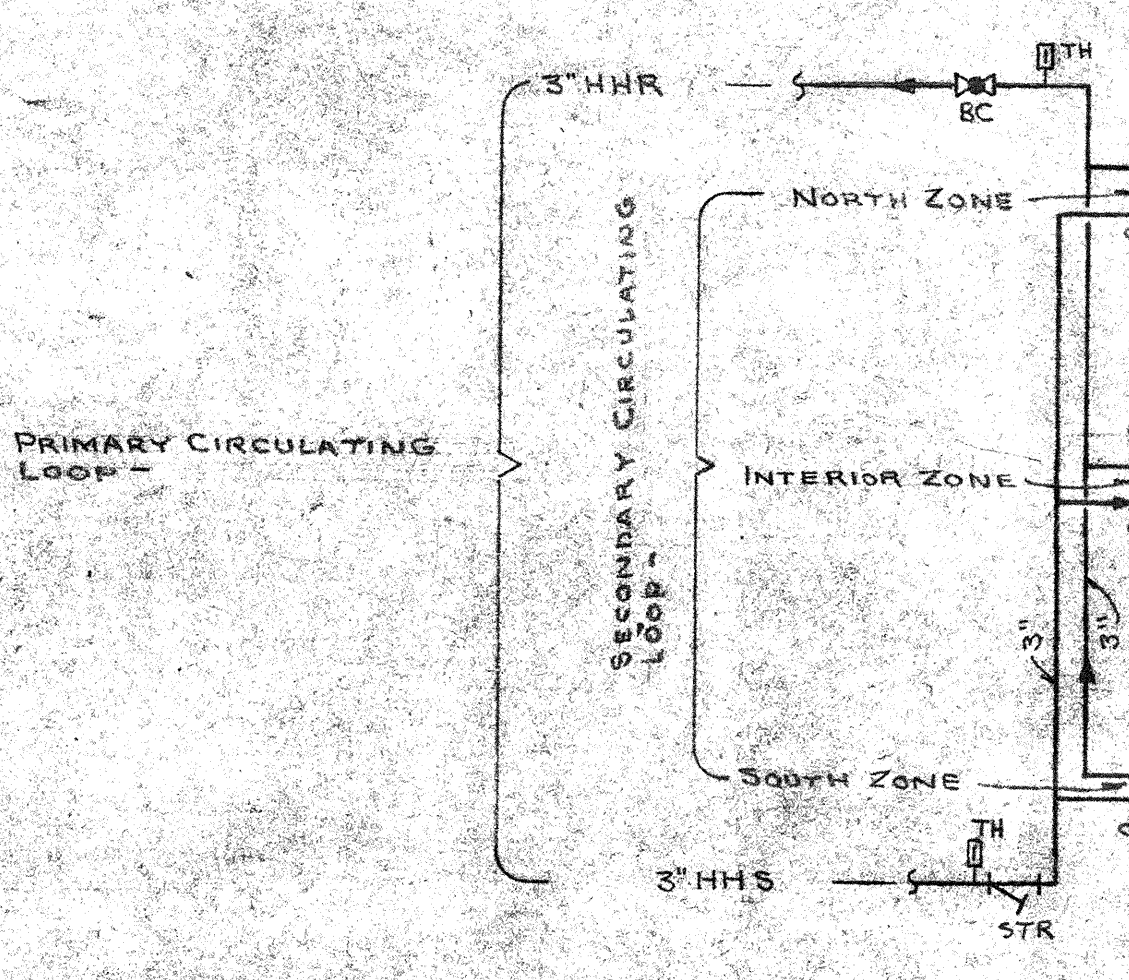
DETAIL - PIPE ANCHOR POINT  
NO SCALE



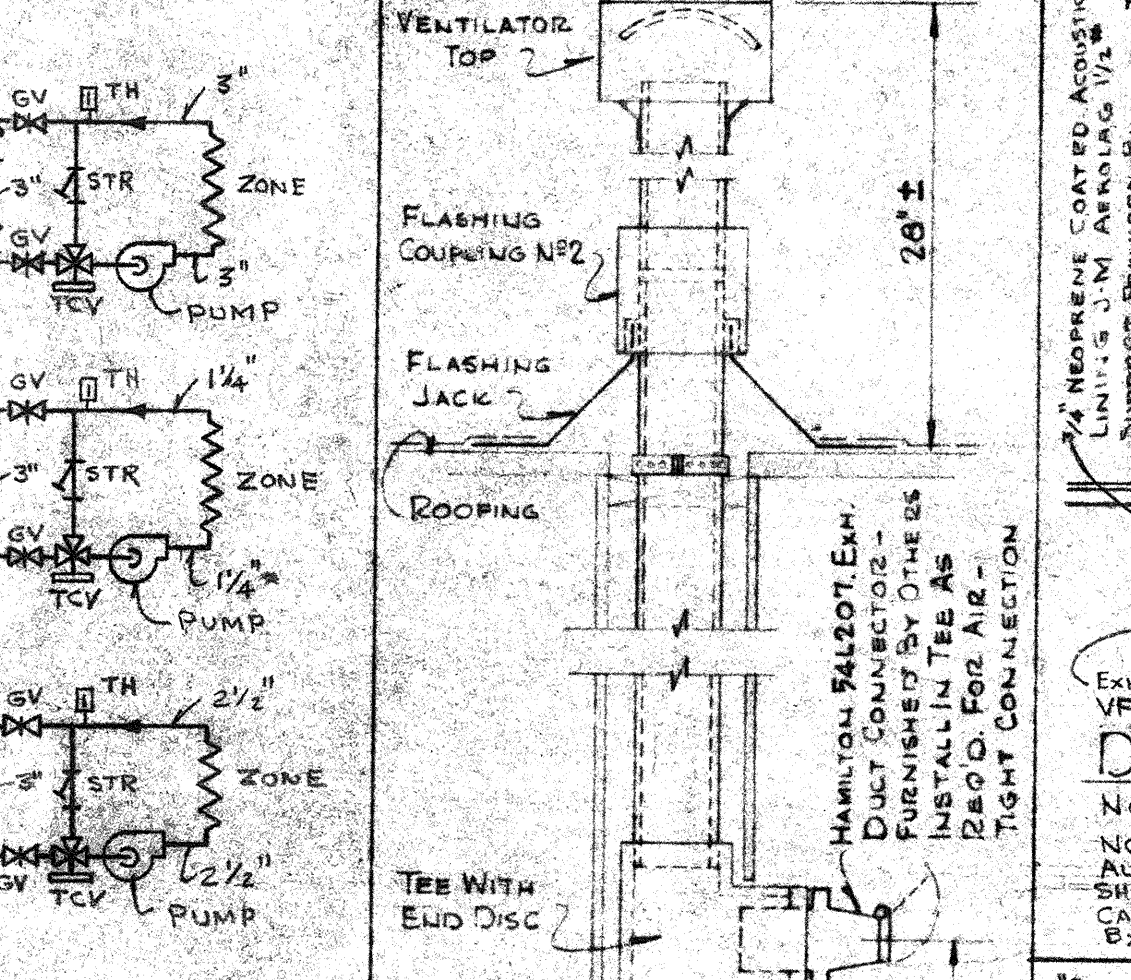
DETAIL - PIPE COMPENSATOR  
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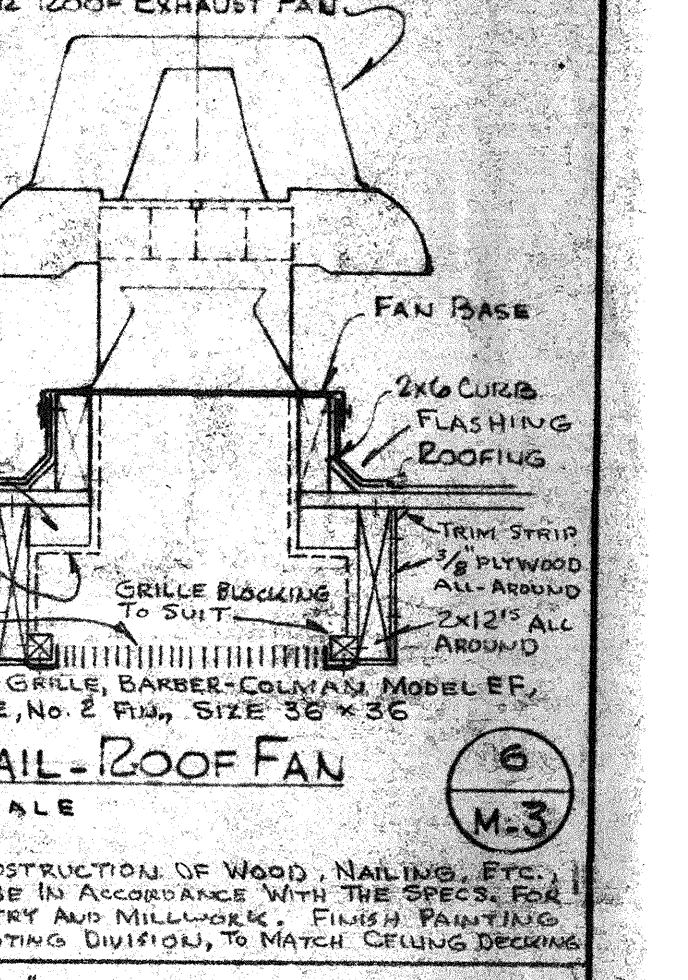
DETAIL - EXHAUST HOOD  
SCALE: 1/2" = 1'-0"



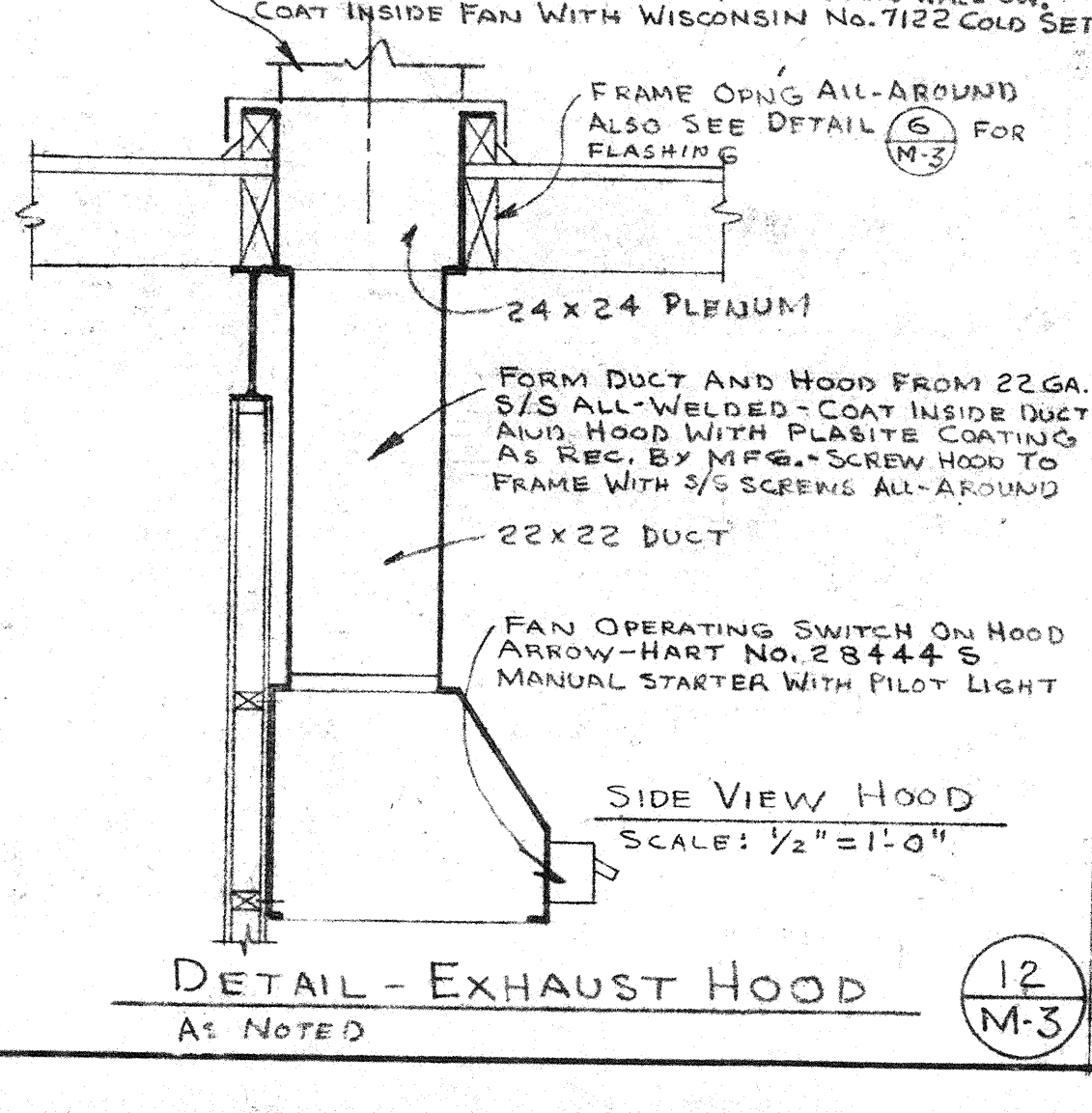
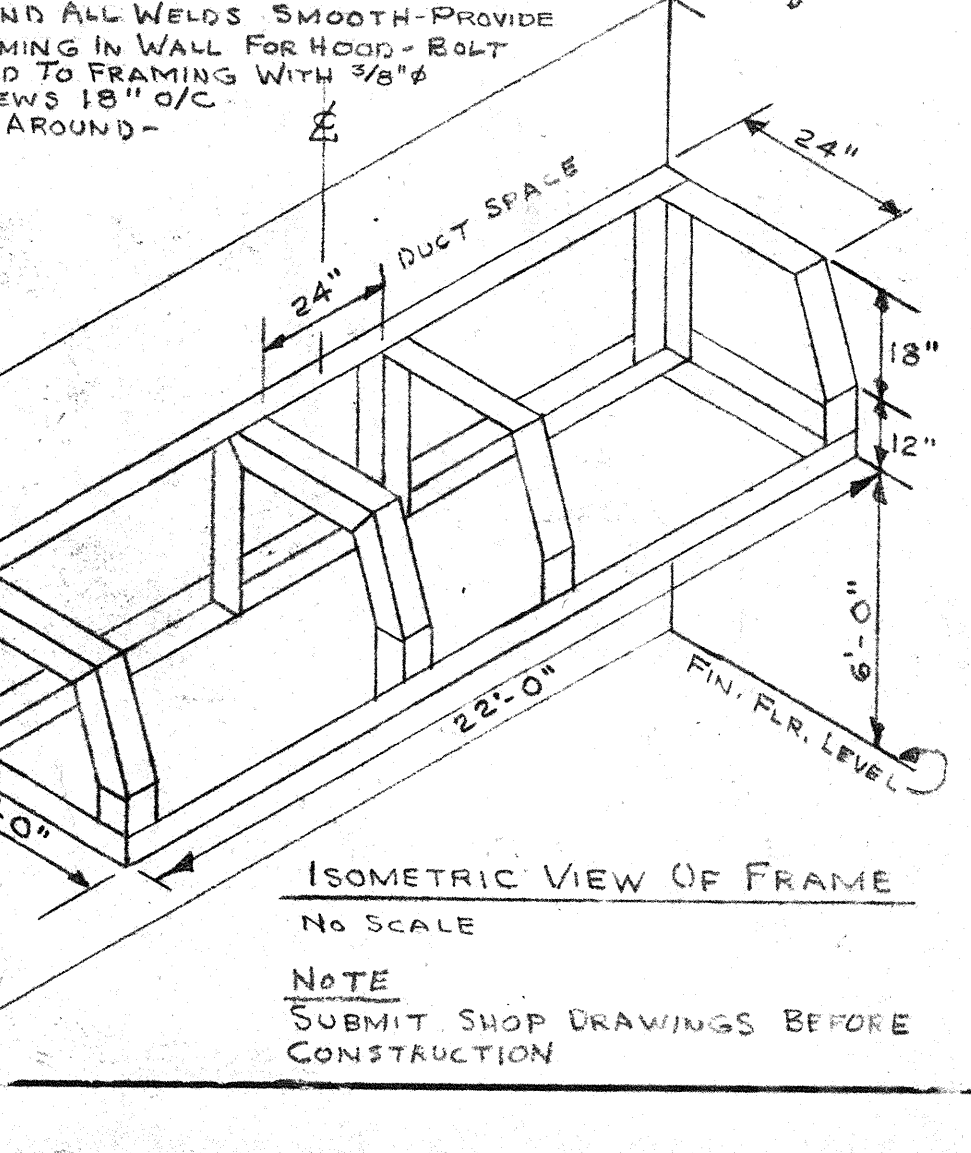
DETAIL - DOMESTIC HOT WATER STORAGE TANK  
SCALE: 1/2" = 1'-0"



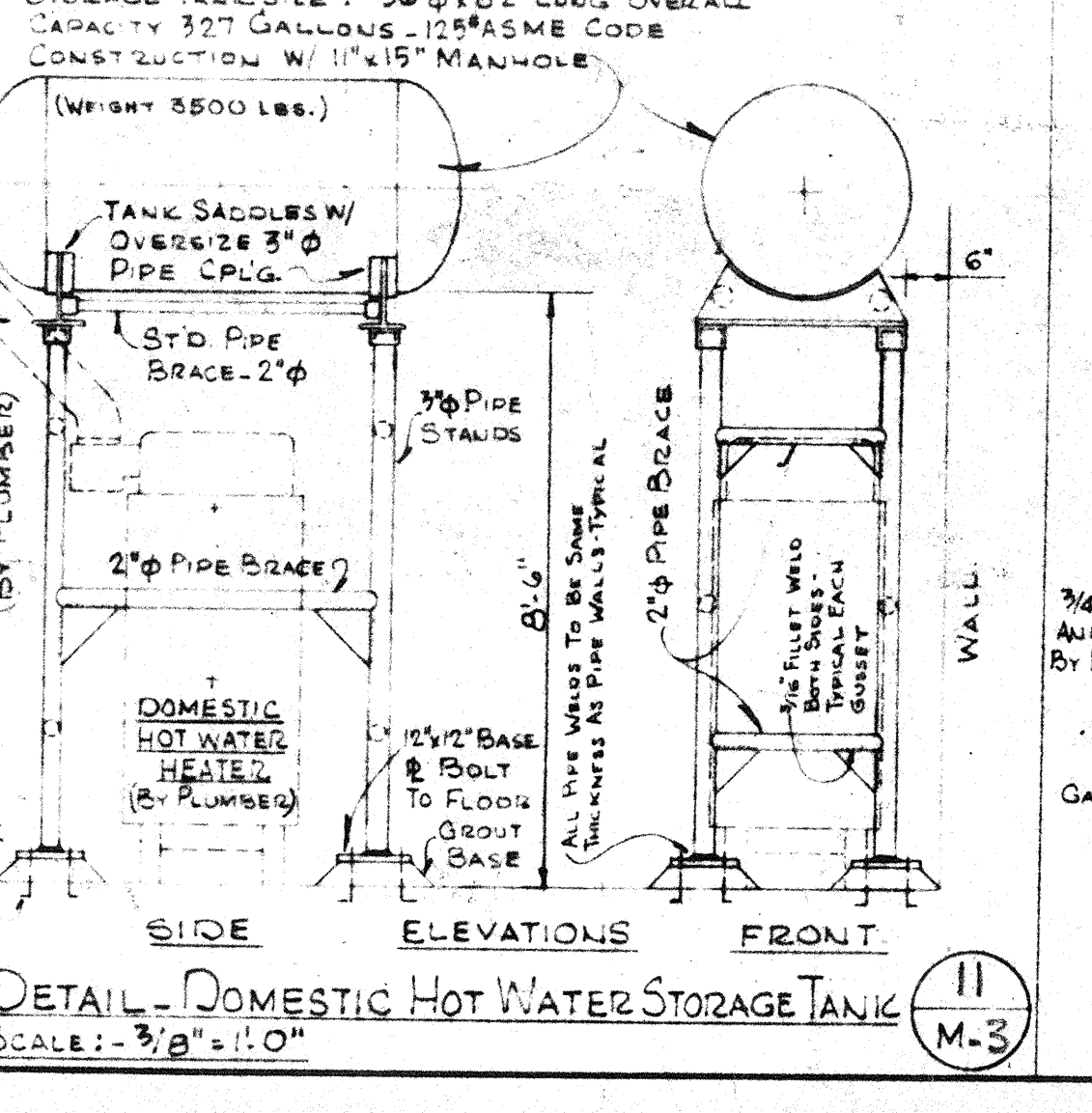
DETAIL - FUME HOOD EXHAUST DUCT  
SCALE: 1/2" = 1'-0"



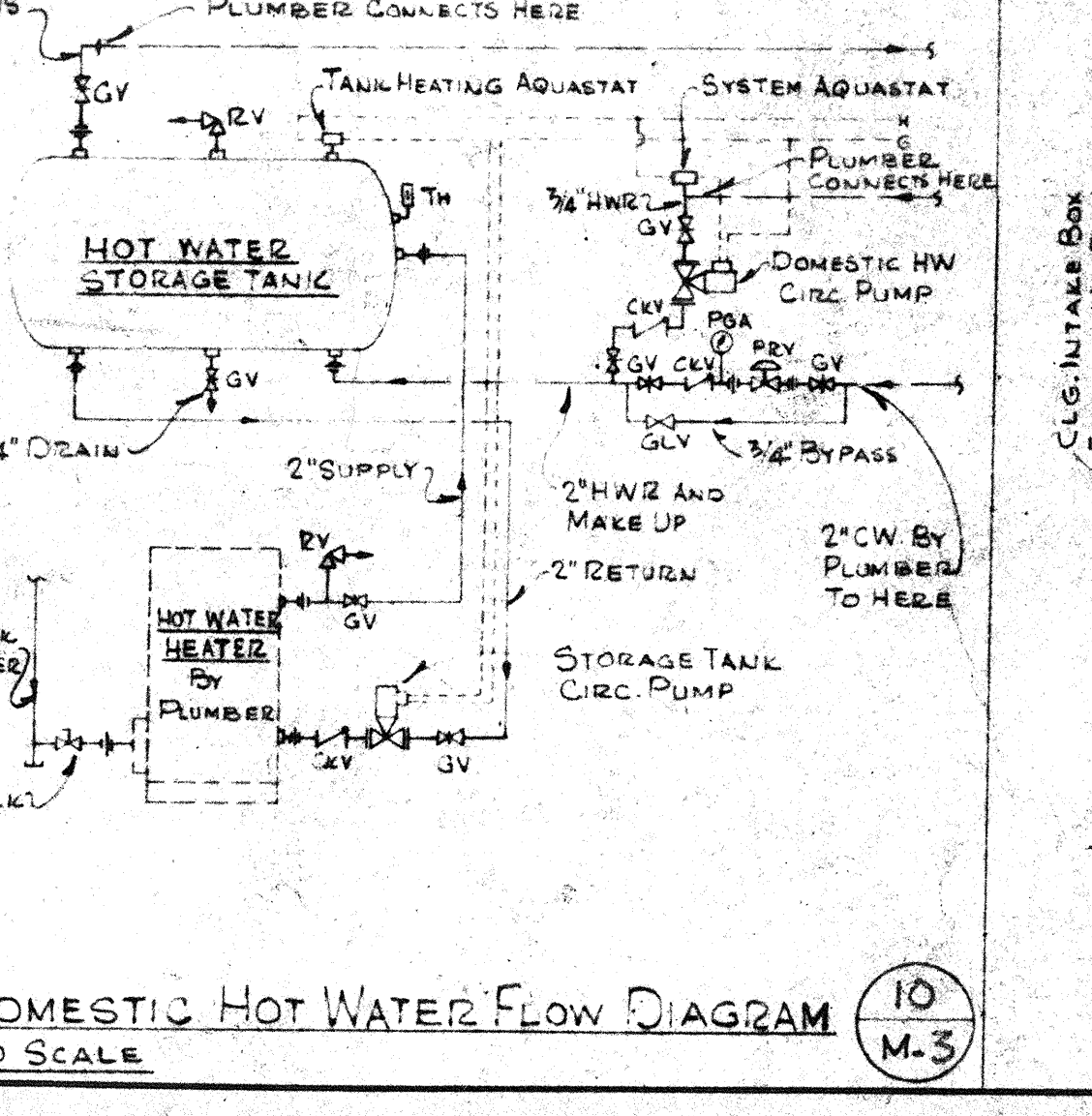
DETAIL - GRAVITY VENT  
SCALE: 1" = 1'-0"



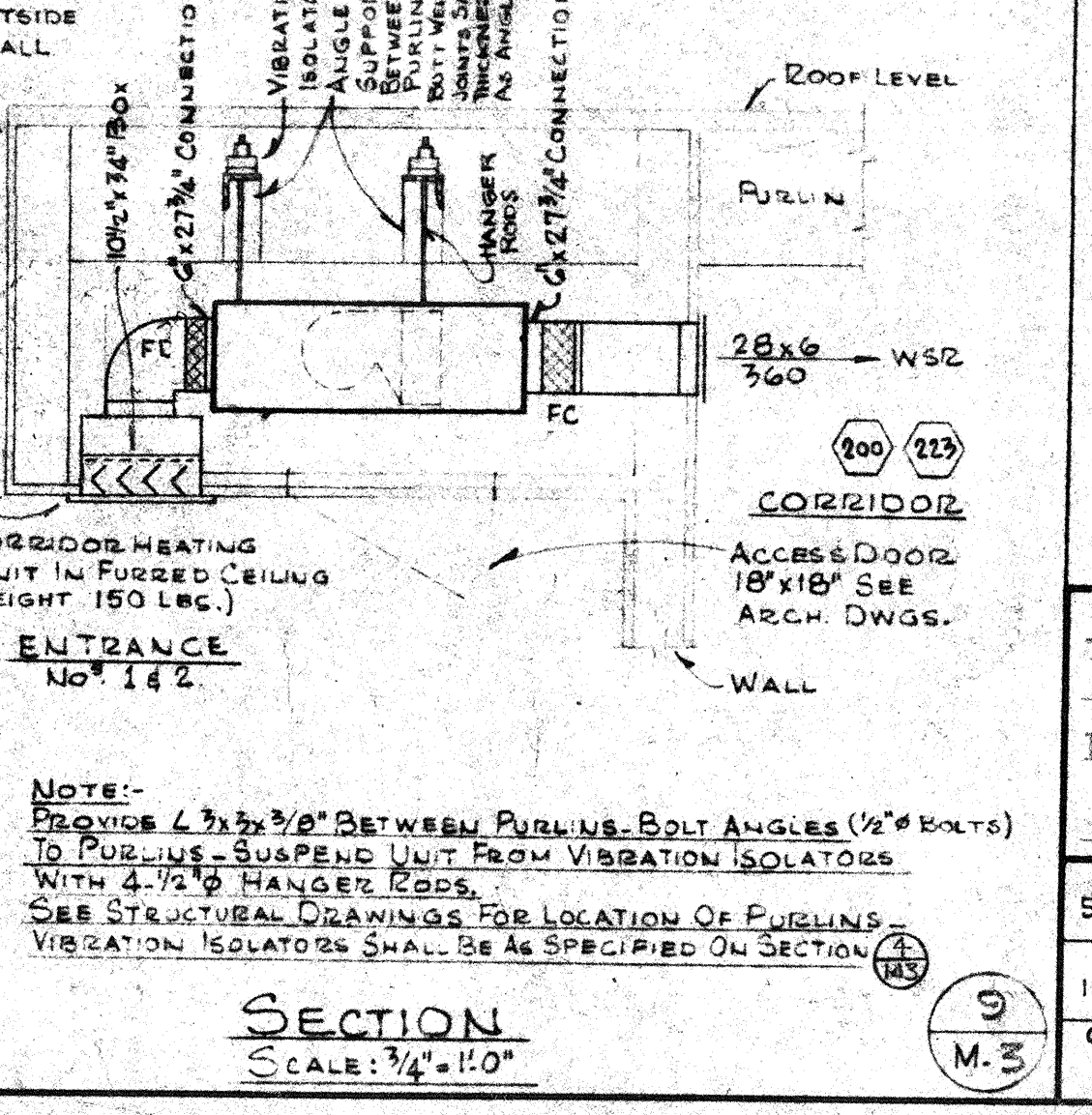
DETAIL - EXHAUST HOOD  
SCALE: 1/2" = 1'-0"



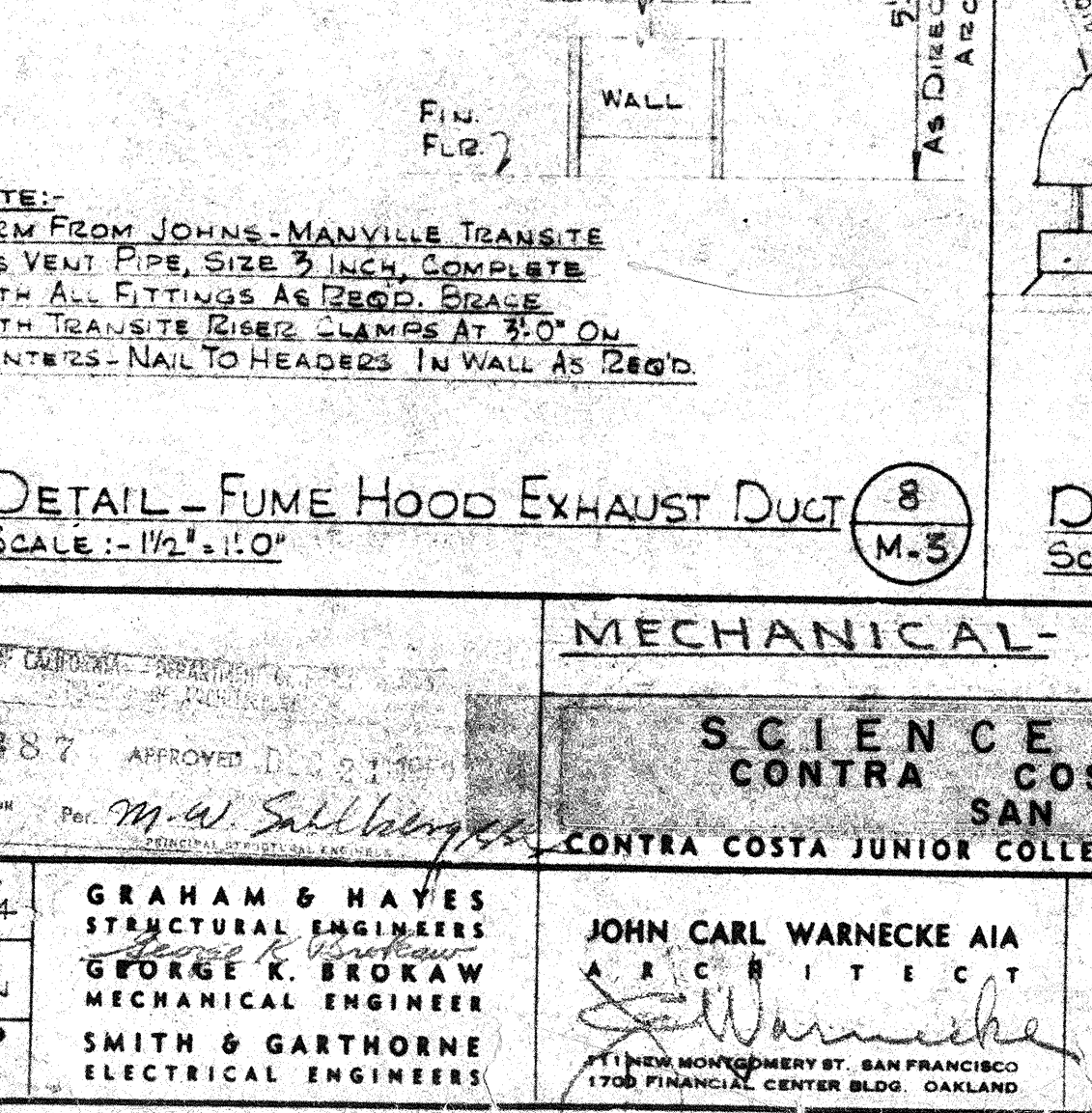
DETAIL - DOMESTIC HOT WATER STORAGE TANK  
SCALE: 1/2" = 1'-0"



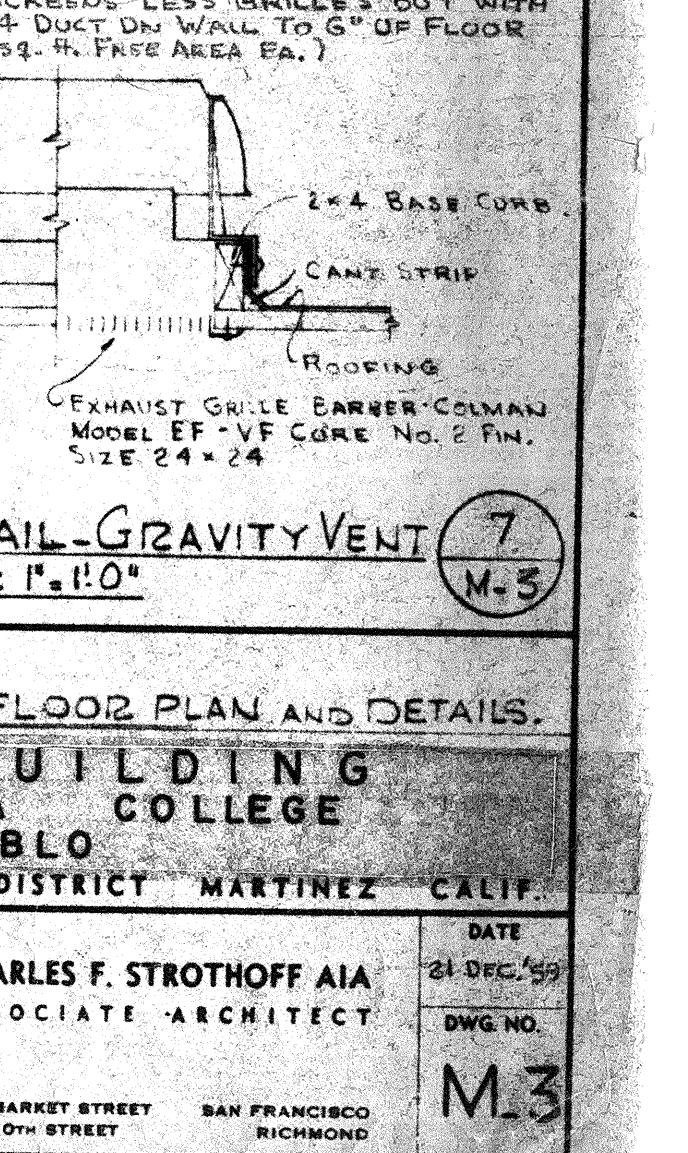
DOMESTIC HOT WATER FLOW DIAGRAM  
NO SCALE



CORRIDOR HEATING UNIT  
SCALE: 1/2" = 1'-0"



DETAIL - FUME HOOD EXHAUST DUCT  
SCALE: 1/2" = 1'-0"



DETAIL - GRAVITY VENT  
SCALE: 1" = 1'-0"

MECHANICAL FLOOR PLAN AND DETAILS

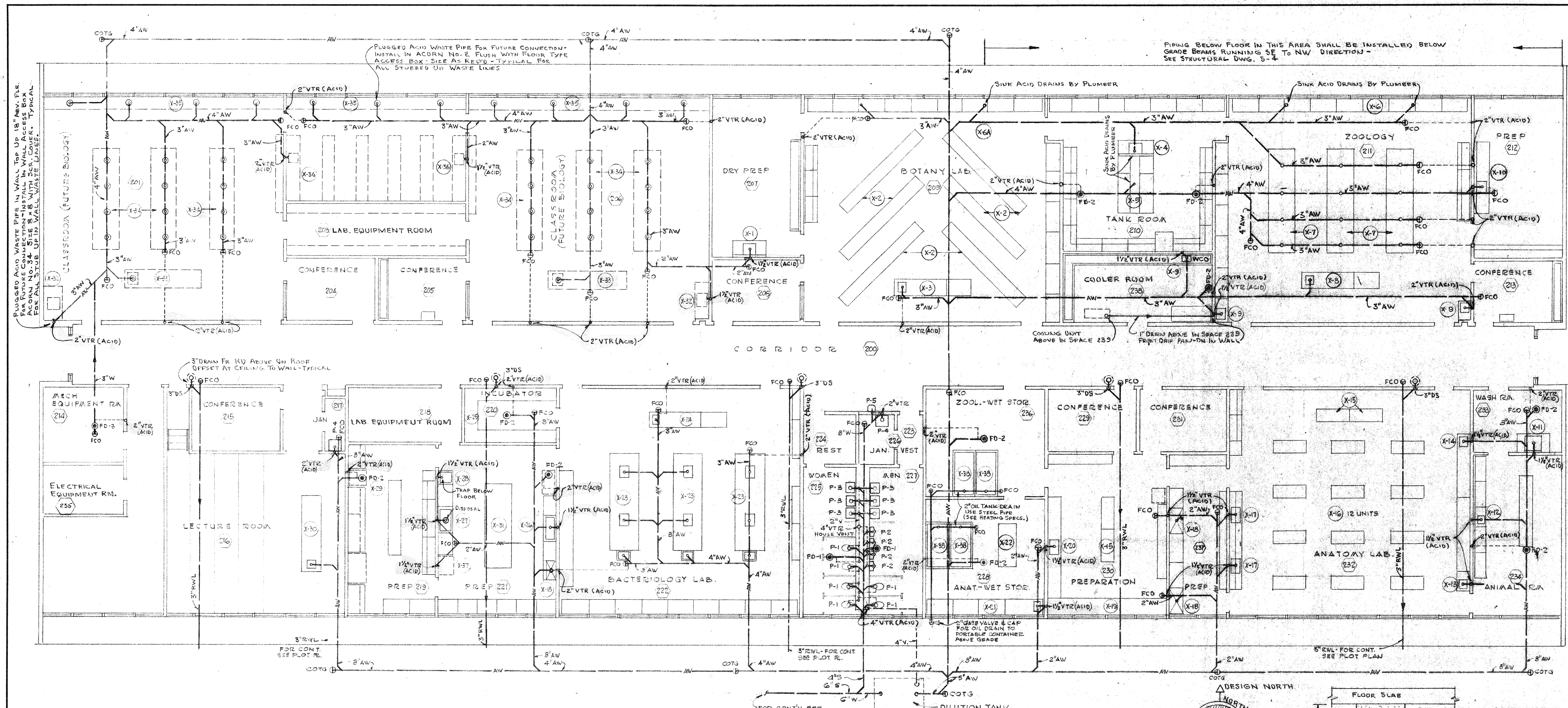
19887 APPROVED 11/1/87

SCIENCE BUILDING  
CONTRA COSTA JUNIOR COLLEGE  
SAN PABLO

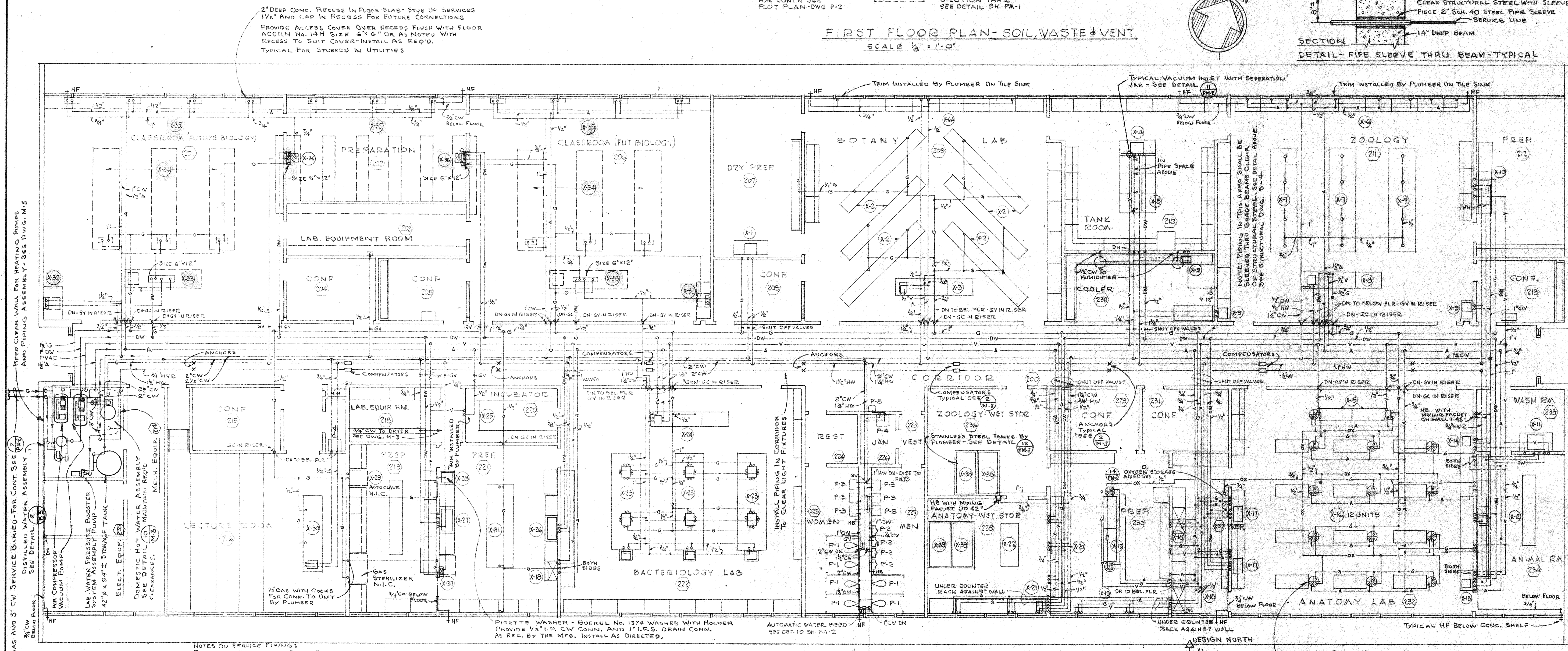
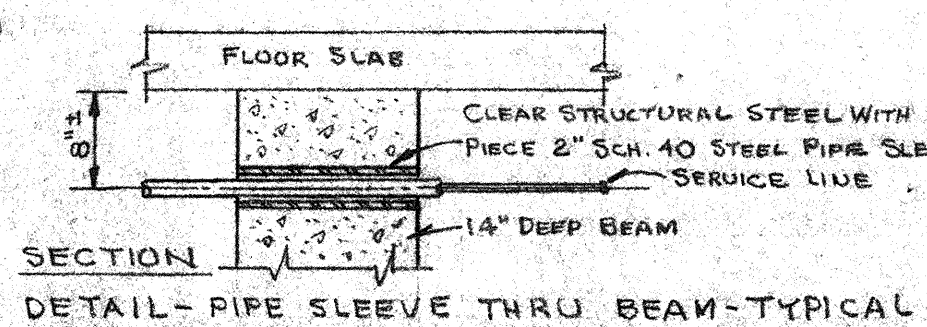
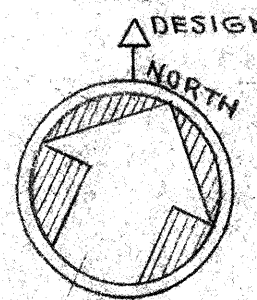
JOHN CARL WARNECKE AIA  
CHARLES F. STROTHOFF AIA  
ASSOCIATE ARCHITECT

DATE: 21 DEC 87  
DWG NO: M-3

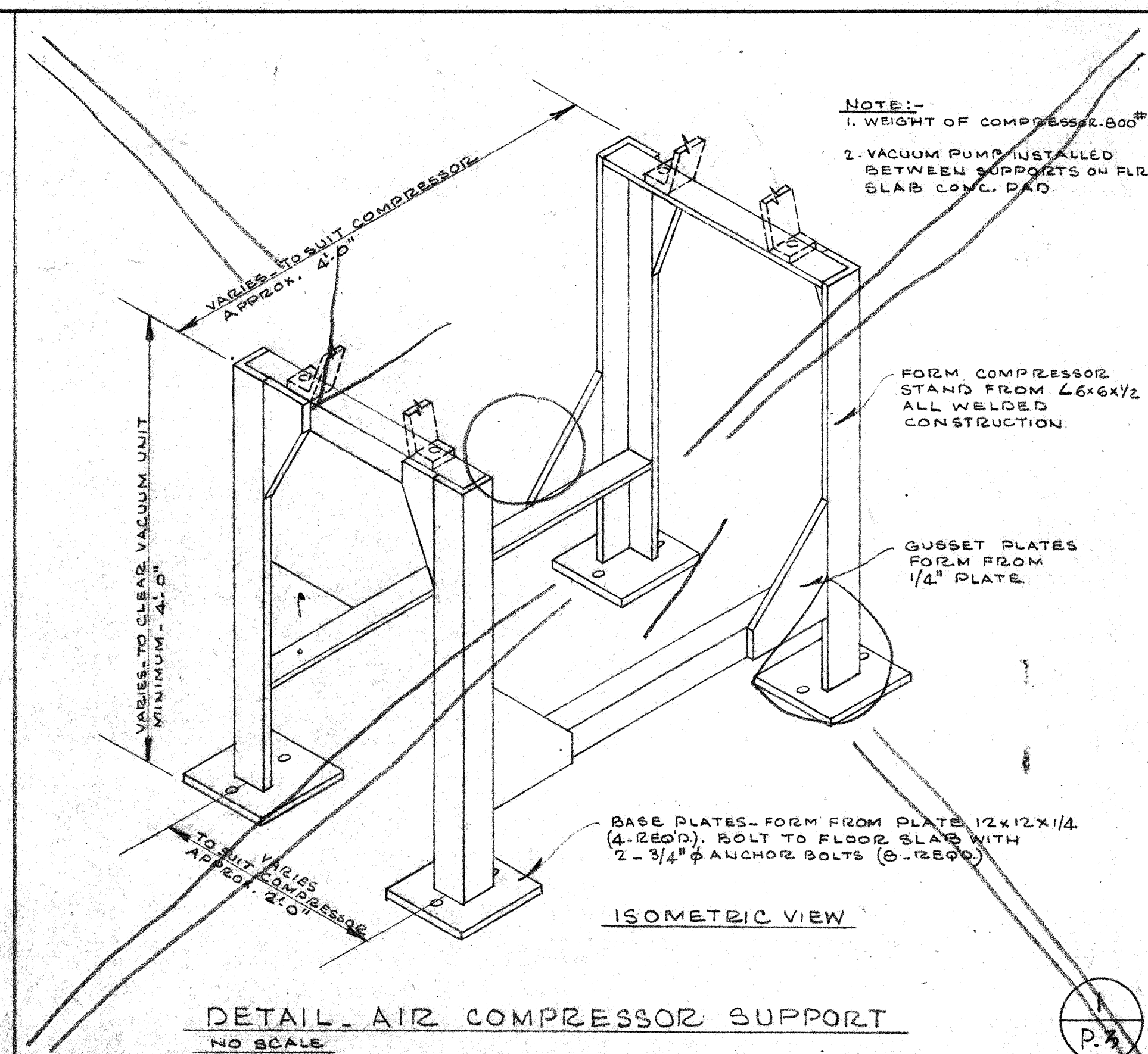
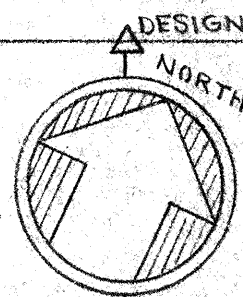




FIRST FLOOR PLAN - SOIL, WASTE & VENT  
SCALE 1/8" = 1'-0"



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



SCHEDULE OF LOCAL CONNECTIONS - LABORATORY EQUIPMENT

ABBR	FIXTURE	ACID WASTE	VENT	COLD WATER	HOT WATER	AIR	VAC	DIST WATER	GAS	OXY	REMARKS
X-1	DRY PREP RA SINK	2"	1/2"	1/2"	1/2"				1/2"		
X-2	BOTANY STUDENT TABLE	2"	1/2"	1/2"	1/2"				1/2"		
X-3	INSTRUCTOR'S TABLE	2"	1/2"	1/2"	1/2"				1/2"		
X-4	TANK RA SINK	2"	1/2"	1/2"	1/2"				1/2"		
X-5	TANKS	2"	1/2"	1/2"	1/2"				1/2"		
X-6	ZOOLOGY TROUGH	2-2"	1/2"	1/2"	1/2"				1/2"		
X-7	BOTANY TROUGH	2-2"	1/2"	1/2"	1/2"				1/2"		
X-8	ZOOLOGY STUDENT TABLE	4-2"	1/2"	1/2"	1/2"				1/2"		
X-9	INSTRUCTOR'S TABLE	2"	1/2"	1/2"	1/2"				1/2"		
X-10	PREP RA SINK	2"	1/2"	1/2"	1/2"				1/2"		
X-11	WASH RA SINK	2"	1/2"	1/2"	1/2"				1/2"		
X-12	ANIMAL RA SINK	2"	1/2"	1/2"	1/2"				1/2"		
X-13	ANATOMY LAB SINK	2"	1/2"	1/2"	1/2"				1/2"		
X-14	"	2"	1/2"	1/2"	1/2"				1/2"		
X-15	"	2"	1/2"	1/2"	1/2"				1/2"		
X-16	"	2"	1/2"	1/2"	1/2"				1/2"		
X-17	"	2"	1/2"	1/2"	1/2"				1/2"		
X-18	FUME HOOD	2"	1/2"	1/2"	1/2"				1/2"		
X-19	PREP RA COUNTER	2"	1/2"	1/2"	1/2"				1/2"		
X-20	"	2"	1/2"	1/2"	1/2"				1/2"		
X-21	ANAT WET STEE COUNTER	2"	1/2"	1/2"	1/2"				1/2"		
X-22	AUTOPSY TABLE	2"	1/2"	1/2"	1/2"				1/2"		
X-23	BACTERIOLOGY STUDENT TABLE	2"	1/2"	1/2"	1/2"				1/2"		
X-24	INSTE TABLE	2"	1/2"	1/2"	1/2"				1/2"		
X-25	INCUBATOR RA COUNTER	2"	1/2"	1/2"	1/2"				1/2"		
X-26	PREP ROOM SINK	2"	1/2"	1/2"	1/2"				1/2"		
X-27	PIPE WASHES	2"	1/2"	1/2"	1/2"				1/2"		
X-28	AUTOCLAVE	2"	1/2"	1/2"	1/2"				1/2"		
X-29	INSTRUCTOR'S TABLE	2"	1/2"	1/2"	1/2"				1/2"		
X-30	PREP ROOM TABLE	2"	1/2"	1/2"	1/2"				1/2"		
X-31	SINK (F)	2"	1/2"	1/2"	1/2"				1/2"		
X-32	INSTRUCTOR'S TABLE (F)	2"	1/2"	1/2"	1/2"				1/2"		
X-33	STUDENT TABLE (F)	2"	1/2"	1/2"	1/2"				1/2"		
X-34	COUNTER (F)	2"	1/2"	1/2"	1/2"				1/2"		
X-35	SINK (F)	2"	1/2"	1/2"	1/2"				1/2"		
X-36	SINK (F)	2"	1/2"	1/2"	1/2"				1/2"		
X-37	SINK (F)	2"	1/2"	1/2"	1/2"				1/2"		
X-38	CADAVER TANK	2"	1/2"	1/2"	1/2"				1/2"		

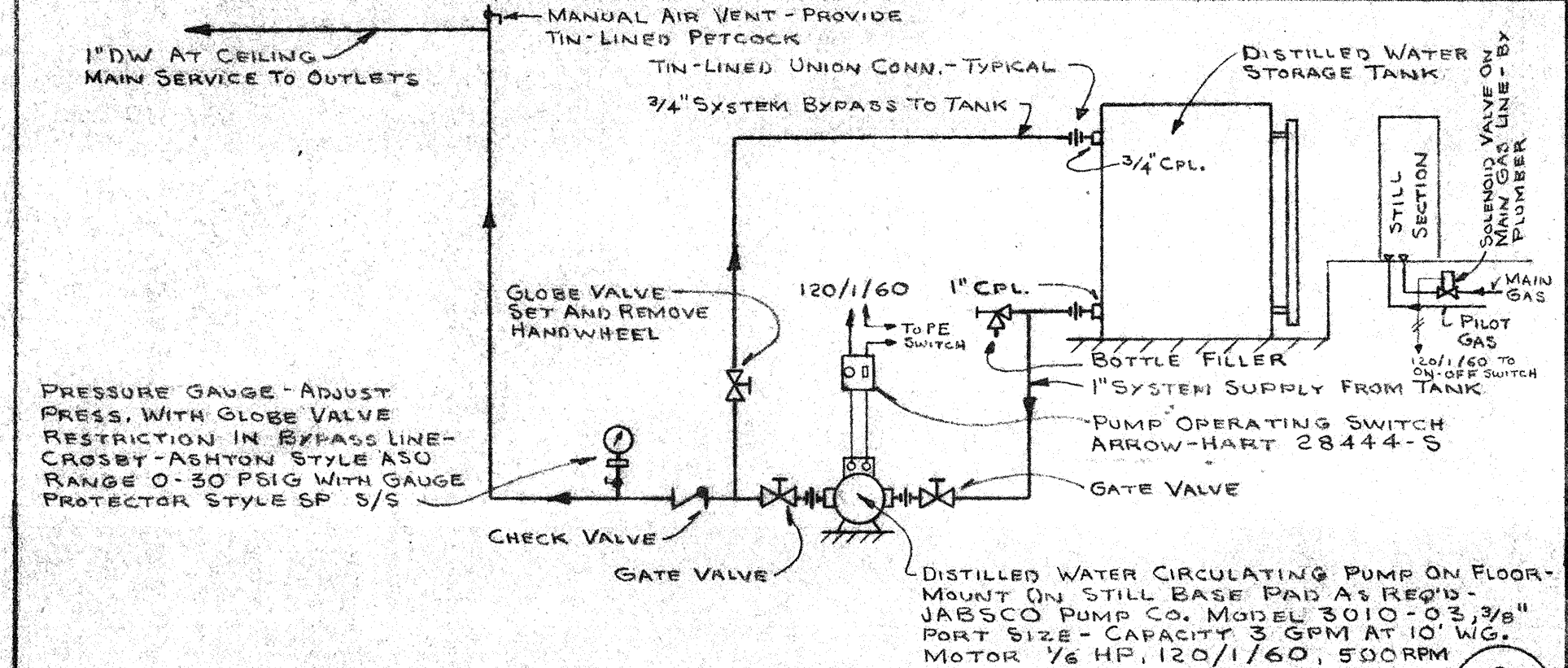


DIAGRAM - DISTILLED WATER CIRCULATING SYSTEM  
NO SCALE

PLUMBING - FLOOR PLAN, DETAILS AND SCHEDULE

SCIENCE BUILDING  
CONTRA COSTA COLLEGE  
SAN PABLO

CONTRA COSTA JUNIOR COLLEGE DISTRICT - MARTINEZ CALIF.

JOHN CARL WARNECKE AIA  
CHARLES F. STROTHOFF AIA  
ASSOCIATE ARCHITECT

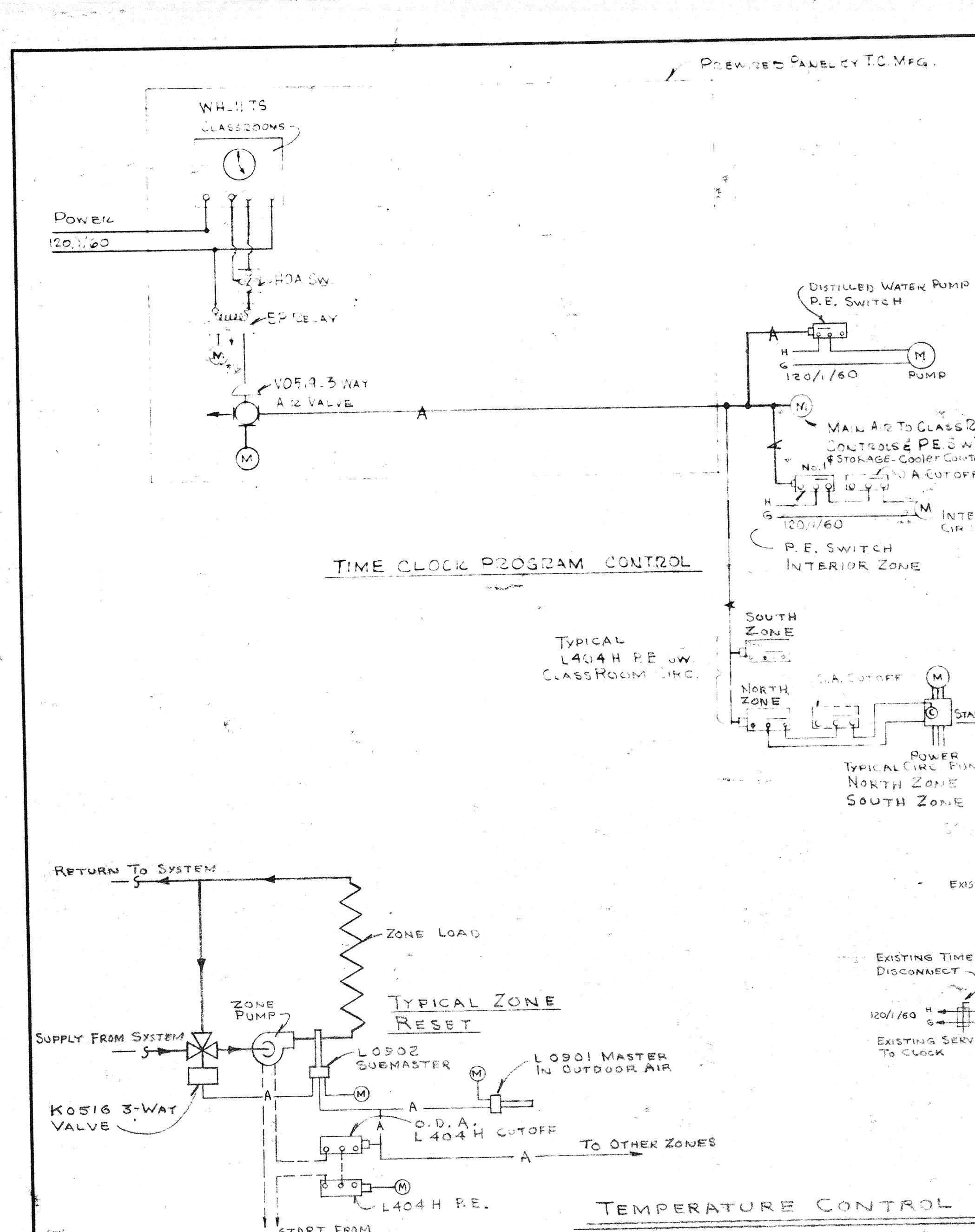
19387  
111 NEW MONTGOMERY ST. SAN FRANCISCO  
250 FINANCIAL CENTER BLDG. OAKLAND

JOHN CARL WARNECKE AIA  
CHARLES F. STROTHOFF AIA  
ASSOCIATE ARCHITECT

111 NEW MONTGOMERY ST. SAN FRANCISCO  
250 FINANCIAL CENTER BLDG. OAKLAND

DATE  
DWG. NO.  
P-3





### SCHEDULE - CIRCULATING PUMPS

NO.	MANUFACTURER	TYPE	SIZE	GPM	HEAD	HP	MOTOR	LOCATION	REMARKS
1	BELL & GOSSETT	BOOSTER						BOILER ROOM	
2		PD31	12"	15	15	1/4	120/1/60	NORTH ZONE SERVICE LIFE SCIENCE BLDG.	
3		PD35	10"	10	10	1/4	120/1/60	SOUTH ZONE SERVICE LIFE SCIENCE BLDG.	
4		PD35	6"	15	15	1/2	120/1/60	STORAGE TANK OR PLUMBING CROUSE	
5		1PR	20"	10	10	1/2		SYSTEM CIRC. RETURN PUMP ALL BRONZE	

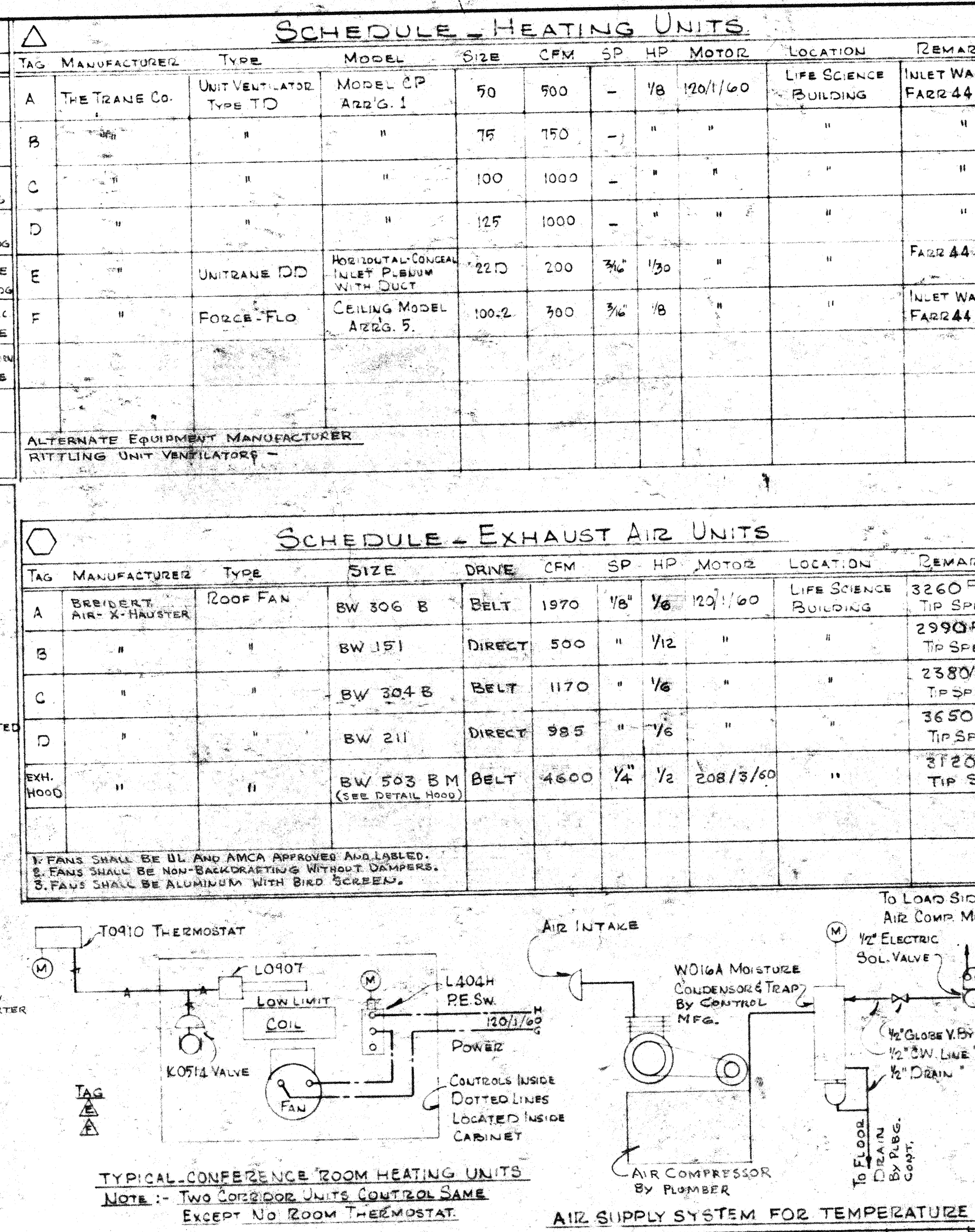
### SCHEDULE - HEATING UNITS

TAG	MANUFACTURER	TYPE	MODEL	SIZE	DRIVE	CFM	SP	HP	MOTOR	LOCATION	REMARKS
A	THE TRANE CO.	UNIT VENTILATOR TYPE TD	MODEL CP A22G.1	50		500		1/8	120/1/60	LIFE SCIENCE BUILDING	INLET WALL BOX FAN 24 FILTERS
B	"	"	"	75		750		"	"	"	"
C	"	"	"	100		1000		"	"	"	"
D	"	"	"	125		1000		"	"	"	"
E	"	UNITRANE DD	HORIZONTAL CONVEYER INLET PLUMB WITH DUCT	220		200	3/4	1/30	"	"	FAN 24 FILTERS
F	"	FORCE-FLO	CEILING MODEL A22G.5	100.2		500	3/4	1/8	"	"	INLET WALL BOX FAN 24 FILTERS

### SCHEDULE - EXHAUST AIR UNITS

TAG	MANUFACTURER	TYPE	SIZE	DRIVE	CFM	SP	HP	MOTOR	LOCATION	REMARKS
A	BRIDGES AIR EXHAUST	ROOF FAN	BW 306 B	BELT	1970	1/8	1/2	120/1/60	LIFE SCIENCE BUILDING	3260 FPM TIP SPEED
B	"	"	BW 351	DIRECT	500	"	1/2	"	"	2990 FPM TIP SPEED
C	"	"	BW 304 B	BELT	1170	"	1/2	"	"	2380 FPM TIP SPEED
D	"	"	BW 211	DIRECT	985	"	1/2	"	"	3650 FPM TIP SPEED
E	"	"	BW 553 B M	BELT	4500	1/4	1/2	208/3/60	"	3120 FPM TIP SPEED



### MECHANICAL LEGEND

SYMBOL	ABBV.	SERVICE	ABBV.	ITEM
→	SA	SUPPLY AIR	ED	EXTRACTOR DAMPER
←	RA	RETURN OR EXHAUST AIR	SD	SPLITTER
—	SD	SUPPLY DUCT-SECTION	VD	VOLUME
—	CG	CEILING	FC	FLEXIBLE CONNECTION
—	EW	EXHAUST	FW	COLD WATER (DOMESTIC)
—	GV	GATE VALVE	OC	ON CENTER
—	BC	BALANCE COCK	OD	OUTSIDE DIAMETER
—	GV	GATE VALVE	DN	DOWN
—	AV	AIR VENT	BF	BELOW FLOOR
—	PRV	PRESSURE REDUCING VALVE	T	BRANCH TAKE OFF SIZE
—	TV	TEMPERATURE CONTROL VALVE	HWS	HOT WATER SUPPLY
—	RV	RELIEF VALVE	HW2	" RETURN
—	ST	STRAINER	HWS	" SUPPLY (DOMESTIC)
—	UN	UNION	HW2	" RETURN
—	TH	THERMOMETER	IFC	IN FORCED CEILING
—	HB	HOSE BIBB	IPS	" SPACE
—	TW	THERMOMETER WELL	IFW	" WALL
—	PSG	PRESSURE GAUGE	CSO	CEILING SUPPLY OUTLET
—	CP	CIRCULATING PUMP	WSR	WALL SUPPLY REGISTER
—	CP	DETAIL OR SECTION NO.	WER	WATER EXHAUST
—	CP	DETAIL OR SECTION NO.	CER	CEILING
—	CP	DETAIL OR SECTION NO.	CER	" RETURN
—	CP	DETAIL OR SECTION NO.	CER	" RETURN

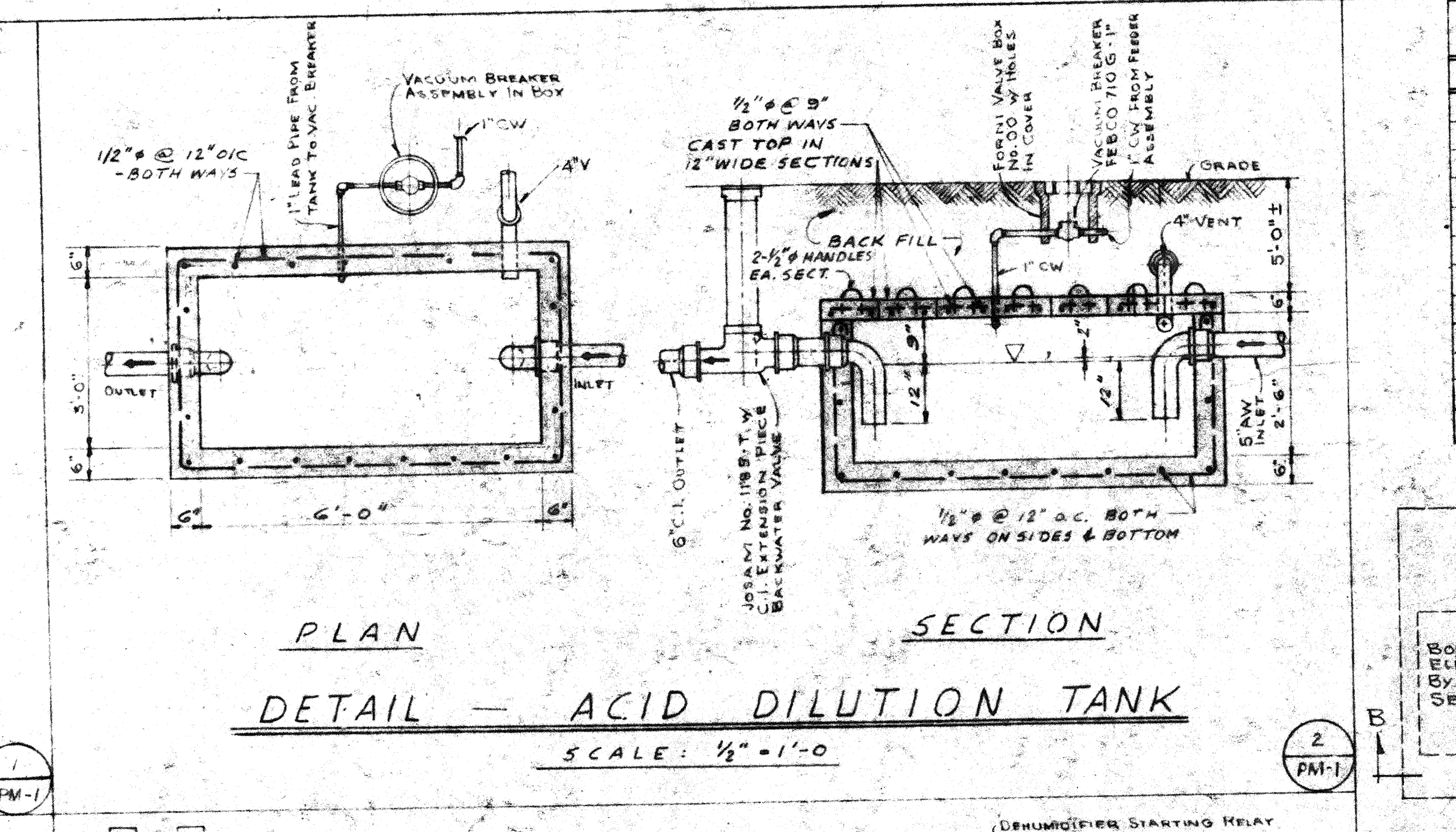
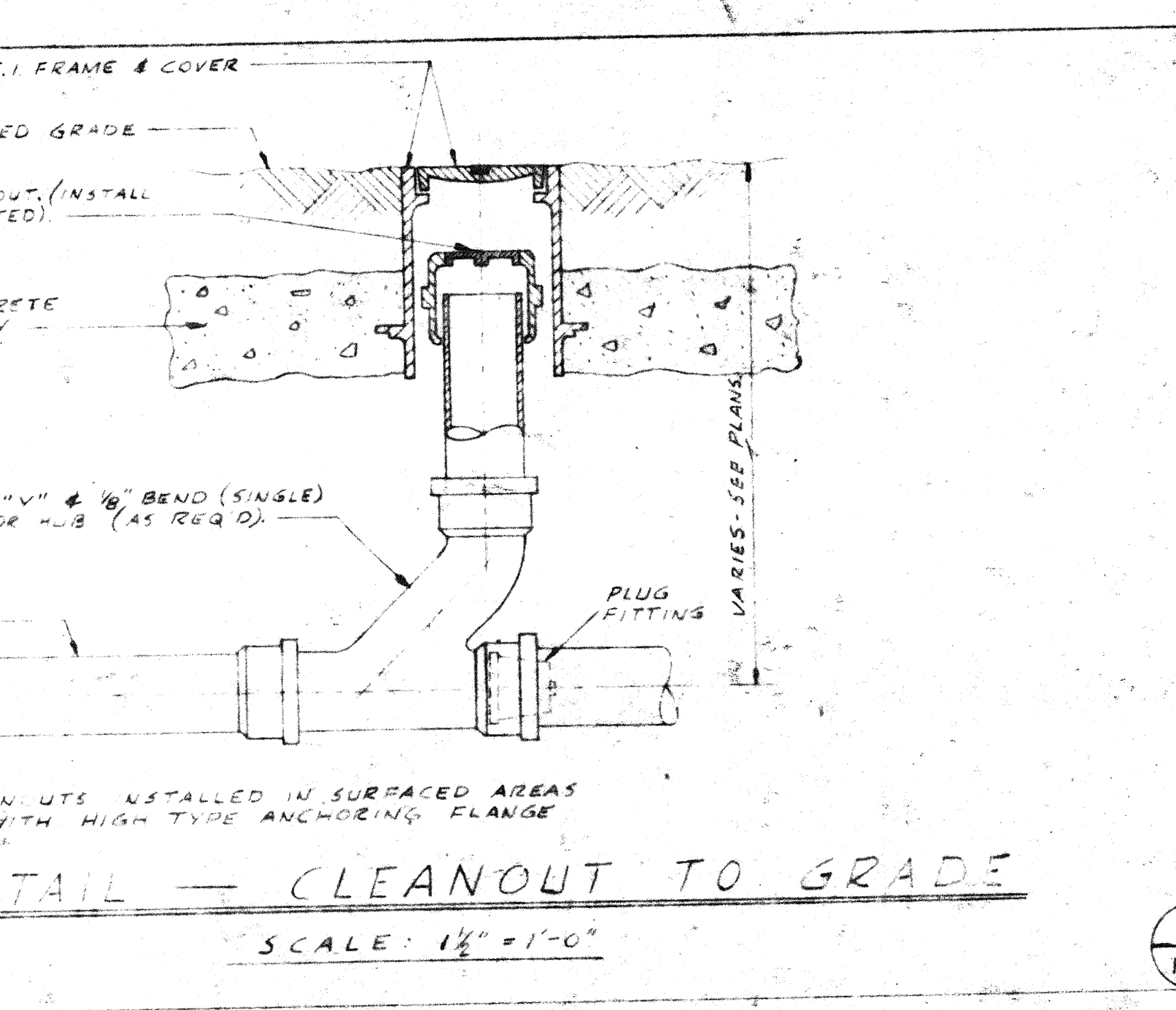
  

### MECHANICAL NOTES

1. MOUNT THERMOSTATS UP 5'0" ABOVE FINISHED FLOOR.
2. ALL SQUARE ELBOWS IN DUCT WORK SHALL HAVE TURNING VANES.
3. ALL DUCT CONNECTIONS TO FANS OR CAPS SHALL BE OF THE FLEXIBLE TYPE.
4. ALL DUCTS AND PIPING SHALL BE RUN TO AVOID ARCHITECTURAL OPENINGS, STRUCTURAL MEMBERS, FIXTURES AND OTHER OBSTRUCTIONS.
5. REFER TO MANUFACTURER'S CERTIFIED DRAWINGS FOR EXACT DIMENSIONS OF ALL EQUIPMENT. ANY CHANGES IN STRUCTURAL, ARCHITECTURAL, ELECTRICAL & PLUMBING CAUSED BY SUBSTITUTION OF MATERIALS, SHALL BE THE RESPONSIBILITY OF CONTRACTOR MAKING SUBSTITUTION.
6. FOR TEMPERATURE CONTROL WIRING & MATERIALS SEE DRAWING PM-1.
7. ALL PIPING EXPOSED IN THE LIFE SCIENCE BUILDING SHALL BE INSTALLED DEAD LEVEL.

### PLUMBING LEGEND

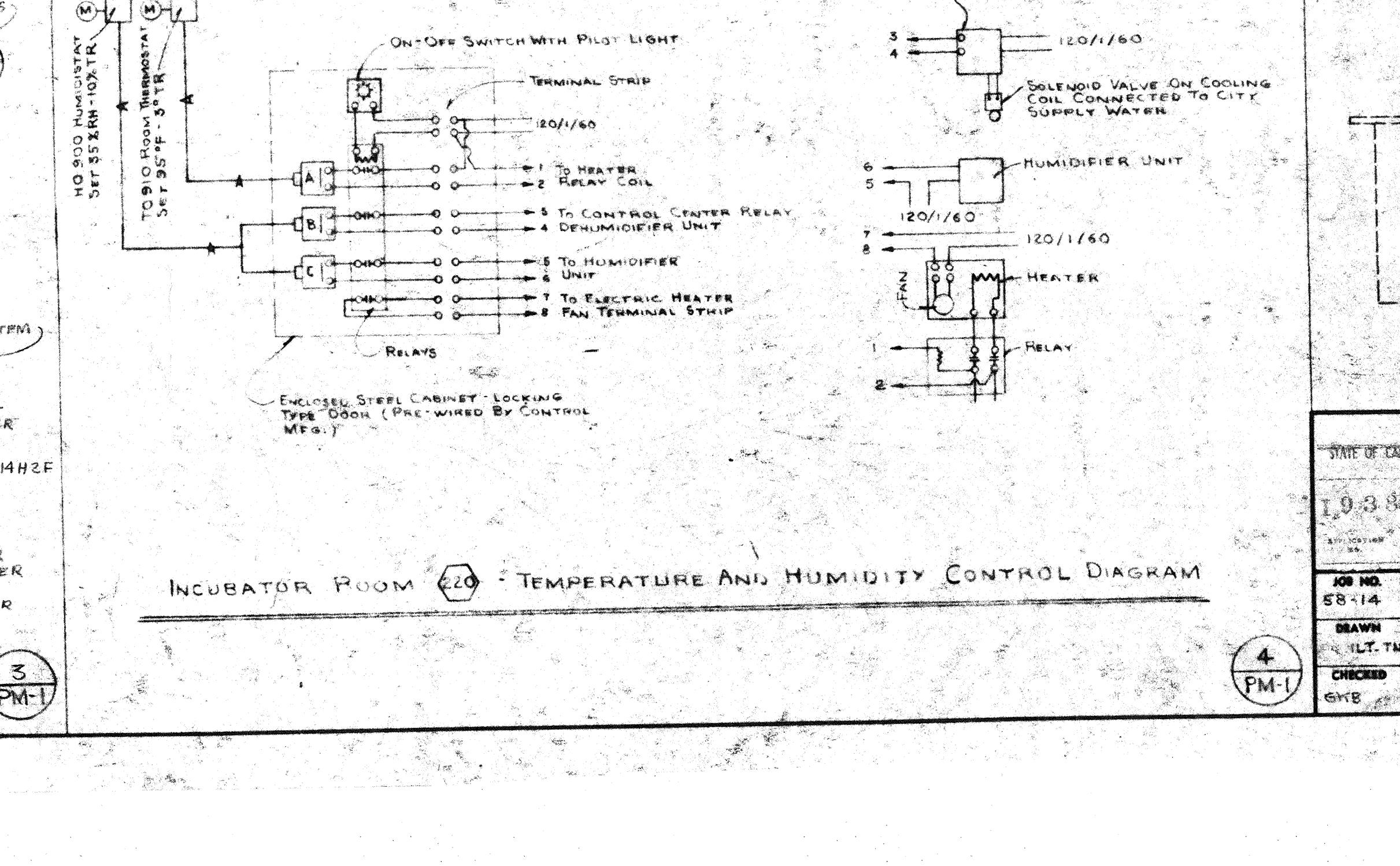
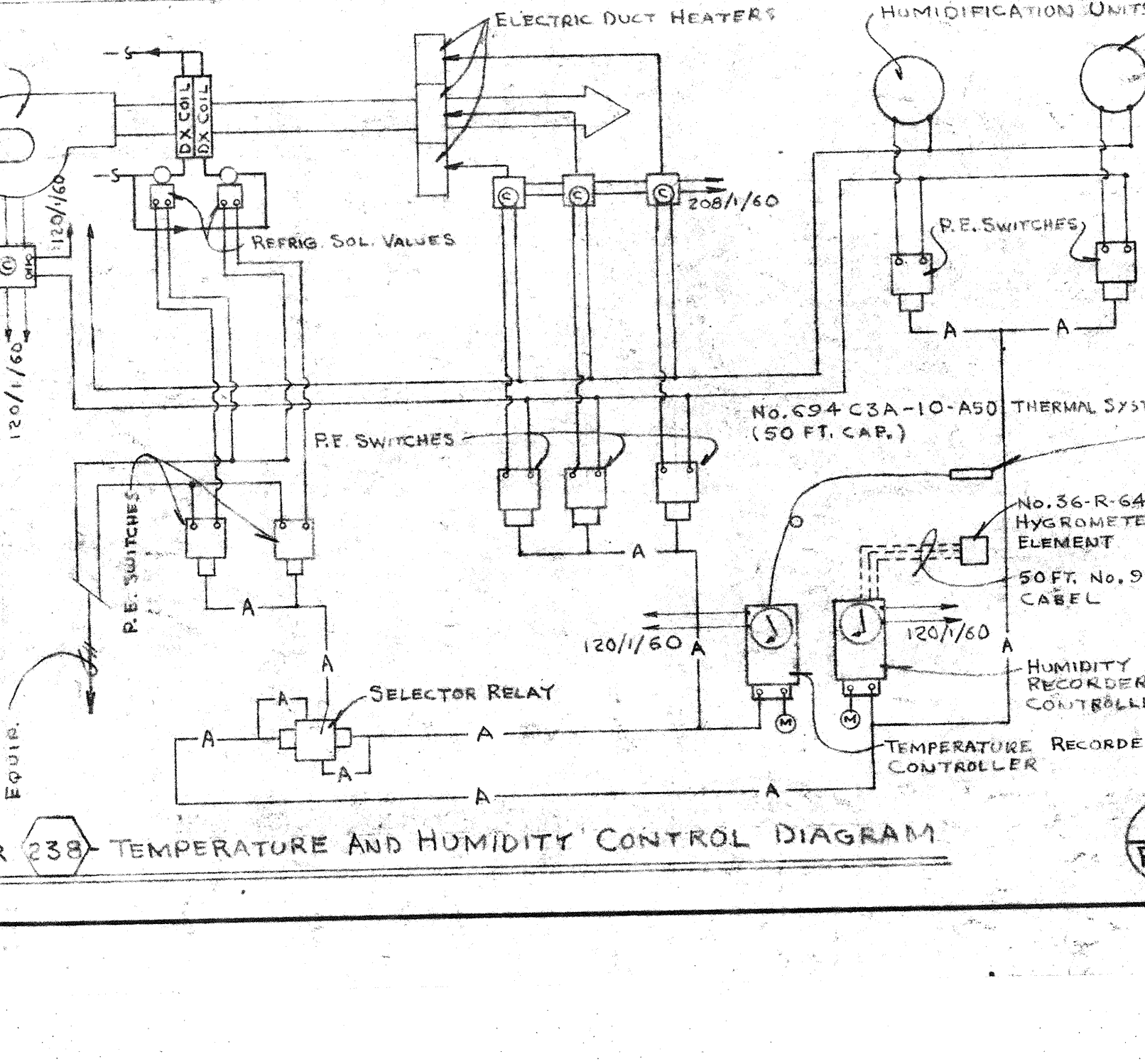
SYMBOL	ABBV.	SERVICE	ABBV.	ITEM
—	SW	SOIL OR WASTE	C.B.	CONCRETE BOX
—	AW	ACID WASTE	C.I.	CAST IRON
—	V	VENT	CONC.	CONCRETE
—	CW	COLD WATER	CONN.	CONNECT OR CONNECTION
—	HW	HOT WATER	DIST.	DISTRIBUTE
—	HWR	HOT WATER RETURN	DN	DOWN
—	G	NATURAL GAS	ENH	ELECTRIC WATER HEATER
—	A	COMPRESSED AIR	FXT	FIXTURE
—	VTR	VENT THRU ROOF	TYP	TYPICAL
—	HB	HOSE BIBB (INSIDE)	W.MIX	WITH MIXING VALVE
—	HF	HOSE FAUCET (OUTSIDE)	AND	AND
—	FD	FLOOR DRAIN	FA	EACH
—	COTG	CLEANOUT TO GRADE	SECT.	SECTION
—	FCG	FLOOR CLEANOUT	CONT.	CONTINUATION
—	GV	GATE VALVE	DET	DETAIL
—	CV	CHECK VALVE	SH	SHEET
—	GC	GAS COCK	DS	DOWN SPOUT (RAINWATER)
—	FS	FLOOR SINK		



### LOCAL CONNECTION SCHEDULE

ABBV.	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER
P-1	WATER CLOSET	4"	2"	1"	
P-2	URINAL	2"	1/4"	1/2"	1/2"
P-3	LAVATORY	2"	1/2"	1/2"	1/2"
P-4	SERVICE SINK	3"	2"	1/2"	1/2"
P-5	DRINKING FOUNTAIN	1/2"	1/2"	1/2"	1/2"
FD-1	FLOOR DRAIN	3"	2"		
FD-2	FLOOR DRAIN (BOILER ROOM)	3"	2"		
H.B.	HOSE BIBB (INSIDE BUILDING)				3/4"
H.F.	HOSE FAUCET (OUTSIDE BUILDING)				3/4"
D.T.	DILUTION TANK	5"	3"	1"	
FS	FLOOR SINK	3"	2"		

- ### PLUMBING NOTES
1. ALL PIPING SHALL BE RUN TO AVOID ARCHITECTURAL OPENINGS, STRUCTURAL MEMBERS, FIXTURES AND/OR OTHER OBSTRUCTIONS.
  2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES.
  3. UNLESS OTHERWISE NOTED, ALL SOL. WASTE AND COLD WATER, HOT WATER, AIR AND GAS PIPING SHALL BE LOCATED BELOW FLOOR.
  4. SET FLOOR DRAINS FLUSH AT LOW POINT. THE PLUMBING CONTRACTOR SHALL BE REQUIRED TO SET FLOOR DRAINS WITH PROPER PITCH AND COORDINATE WITH CONCRETE WORK.
  5. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT ROUGH-IN OF ALL PLUMBING FIXTURES.
  6. HOSE BIBBS AND HOSE FAUCETS SHALL BE INSTALLED 24" ABOVE FINISHED FLOOR OR GRADE, UNLESS OTHERWISE NOTED.
  7. ALL PIPE RUNS SHALL BE INSTALLED WITH AMPLE PROVISIONS FOR EXPANSION AND CONTRACTION, WHETHER OR NOT SPECIFIED IN SPECIFICATIONS, OR SHOWN ON DRAWINGS.
  8. IN ALL RISERS, INSTALL GATE VALVES AND GAS COCKS IN THE WALL NEAR THE CEILING WITH THE HANDLES EXTENDING THRU THE WALL, UNLESS OTHERWISE NOTED. ALL VALVES SHALL BE KEPT IN A HORIZONTAL LINE. FLASH PLATES SHALL BE COPPER WITH CHROME FINISH WHERE PIPING ENTERS WALL, FLOOR AND/OR CEILING. FURNISHED BY PLUMBING CONTRACTOR.
  9. DO NOT SCALE FLOOR PLAN DRAWINGS FOR EXACT HORIZONTAL LOCATION. SINGLE OR MULTIPLE PIPE RUNS SHALL BE SINGLE OR MULTIPLE TO BEST FIT FIELD CONDITIONS.
  10. GATE VALVES AND GAS COCKS INDICATED ON PLANS ARE DIAGRAMMATICALLY LOCATED ONLY FOR ACCESS. THEY PROVIDE AND INSTALL ACCESS PANELS SERVING GATE VALVES AND GAS COCKS, SIZED TO SUIT.
  11. ALL VALVES AND COCKS SHALL BE THE SAME SIZE AS THE LINE, UNLESS OTHERWISE NOTED.



### DETAIL - LABORATORY FLOOR BOX

NO SCALE

NAME PLATE WITH WHITE LETTERING ON BLACK BACKGROUND AS SHOWN

NOTE: CONSTRUCT BOX FROM 14 GA. STL. WITH HINGED COVER AS SHOWN. SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE INSTALLATION. BOX MUST BE WATER TIGHT. FURNISHED BY THE ELECTRICAL SECTION. INSTALLATION OF BOXES MUST BE COORDINATED. WHERE BOXES ARE EXPOSED TO REPAIR VACUUM ASSEMBLY VALUE.

DATE OF REVISION: 1/13/60  
 103-87  
 APPROVED: 1/13/60  
 M.W. K. L. L.

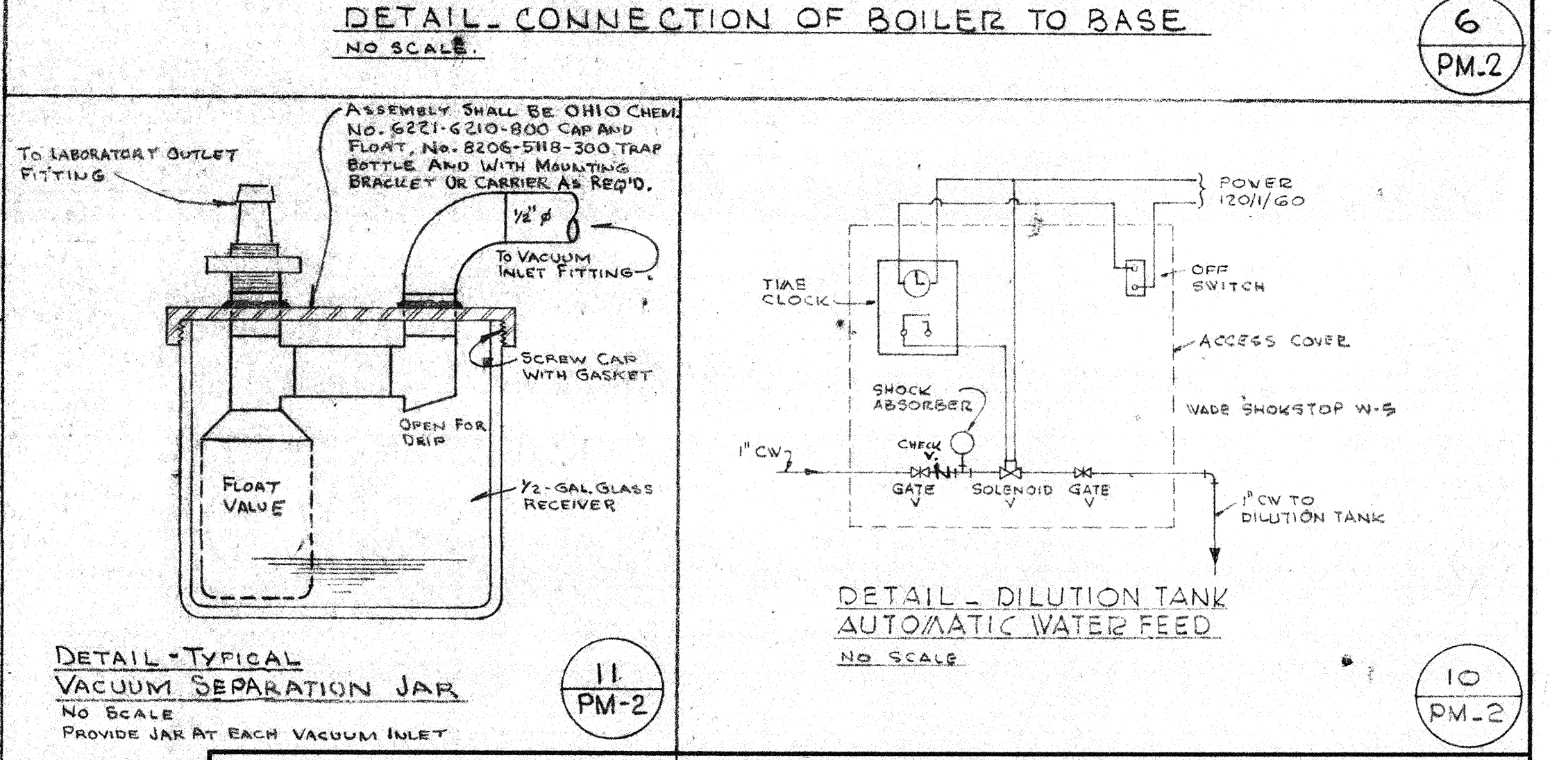
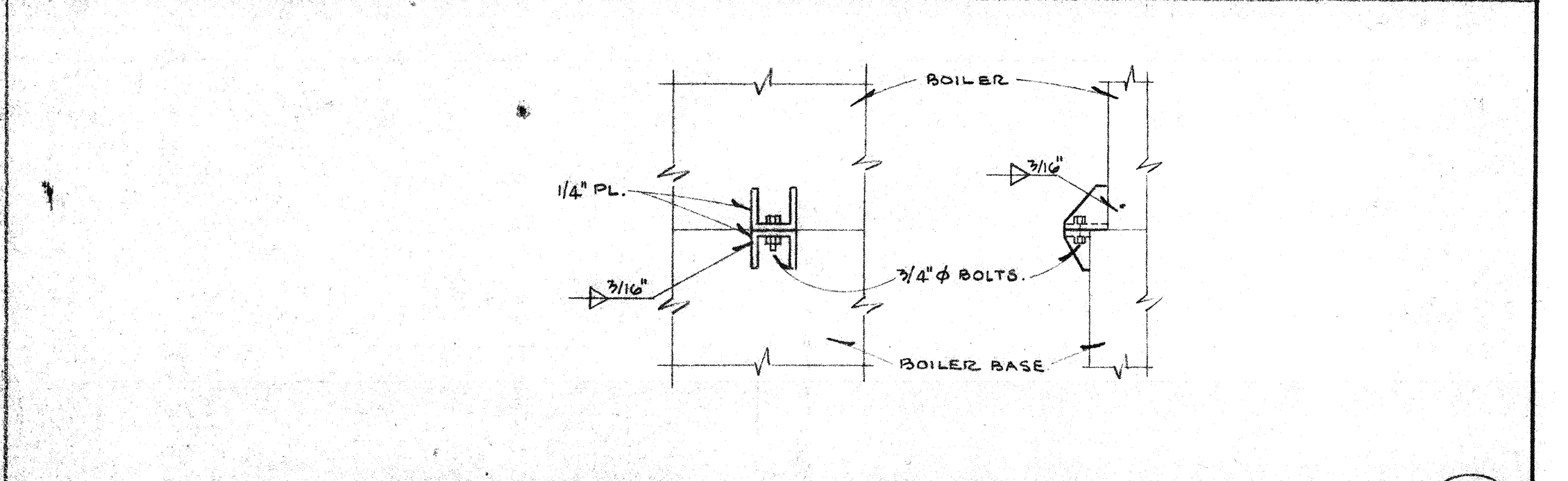
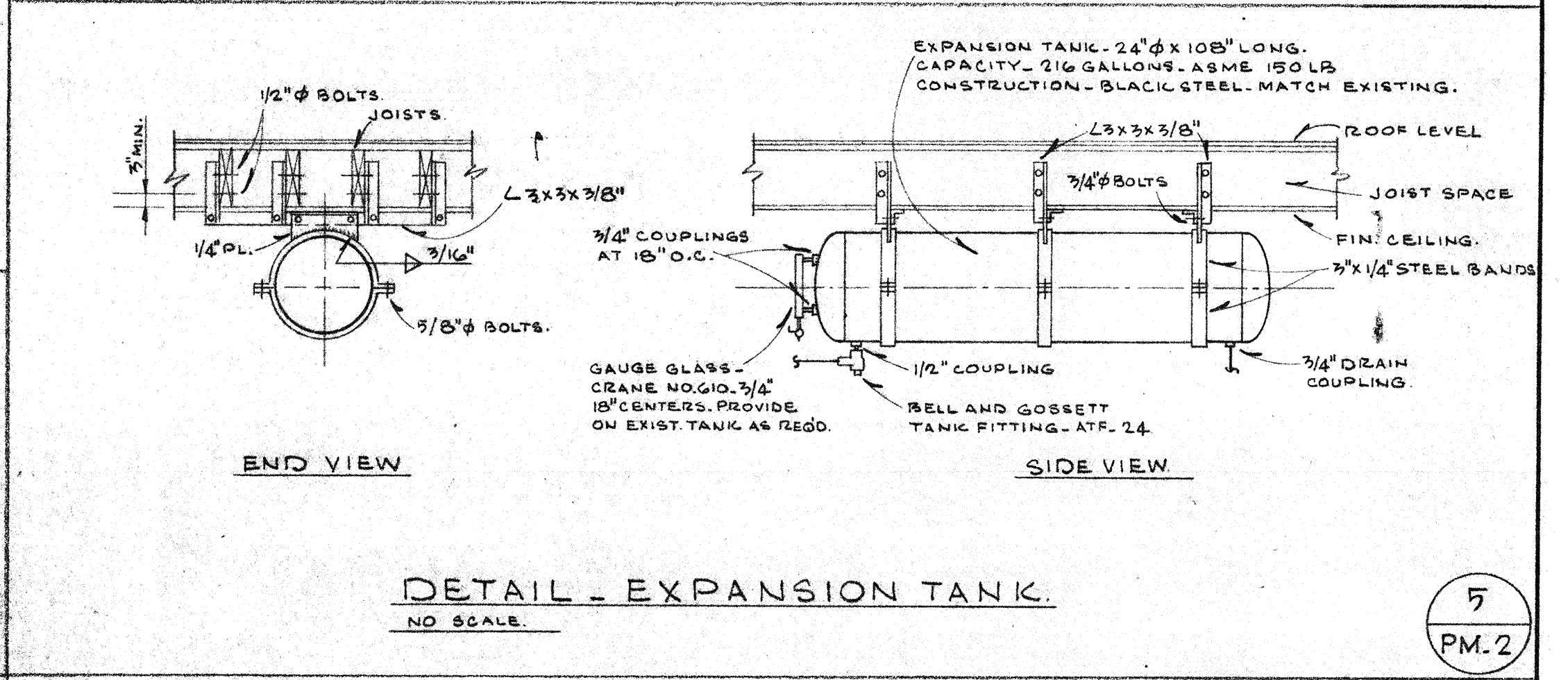
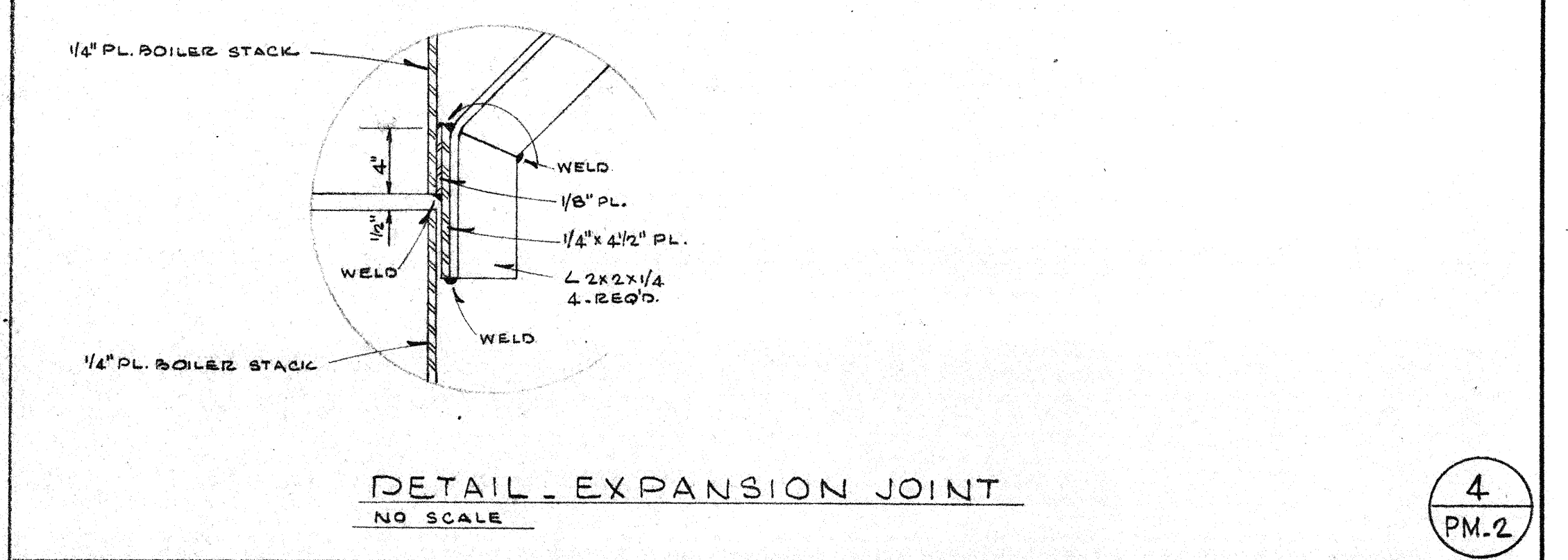
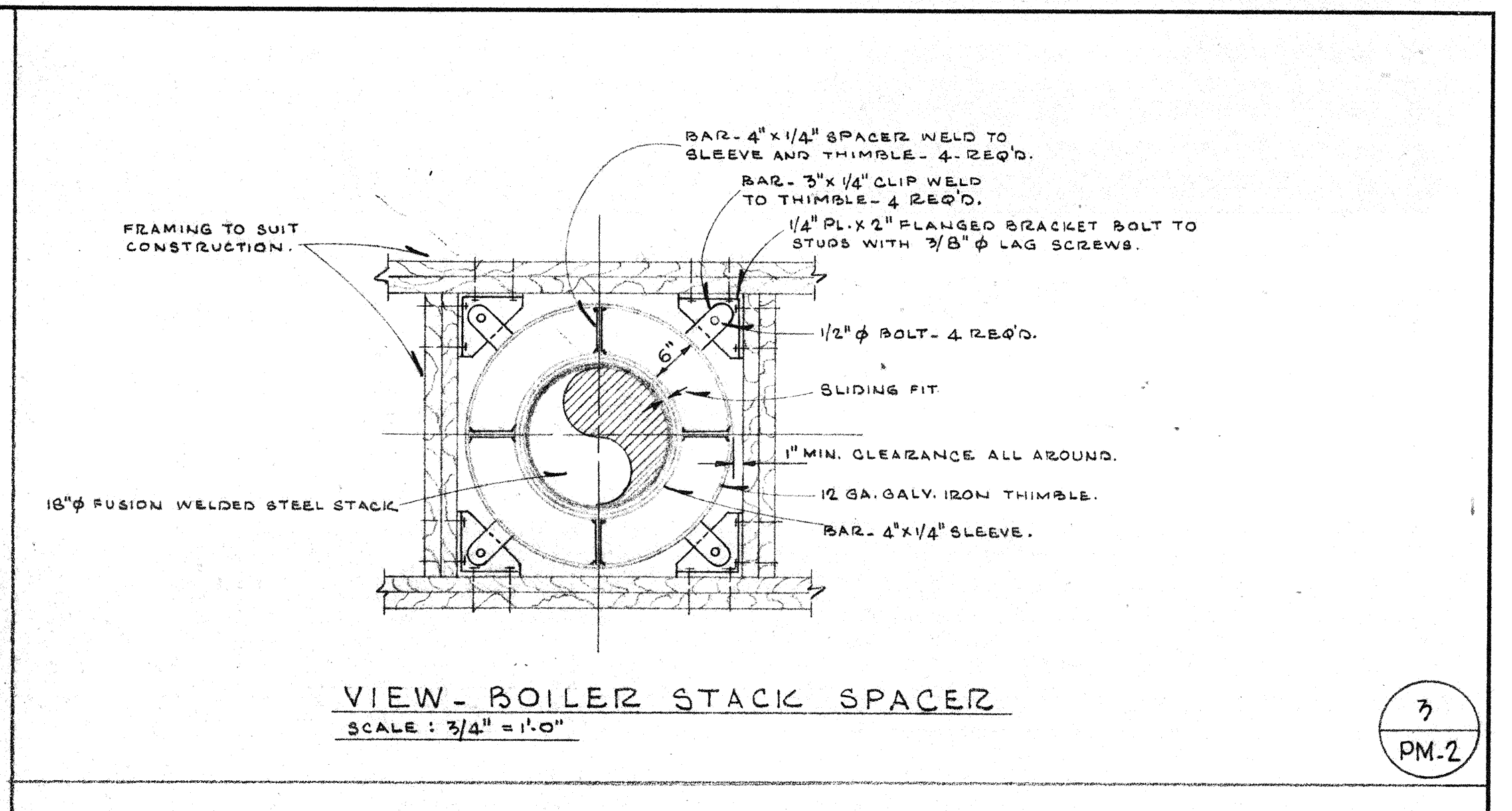
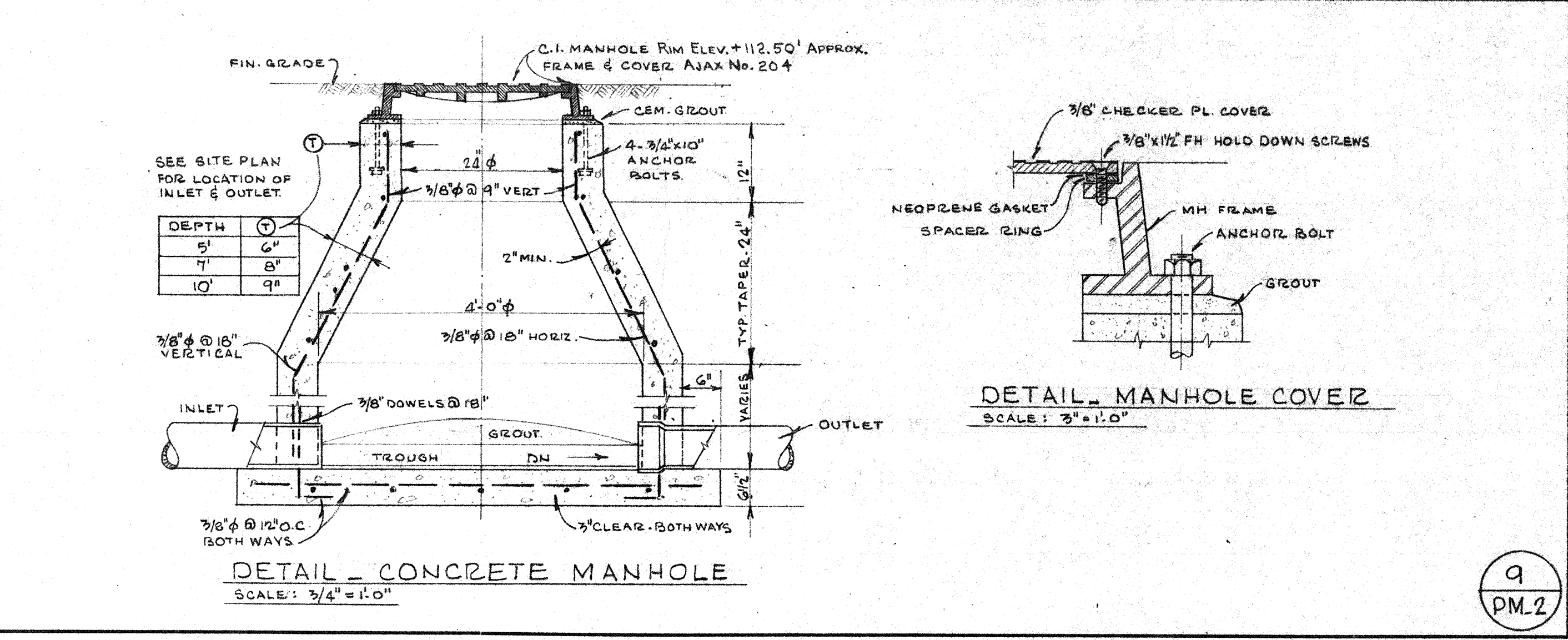
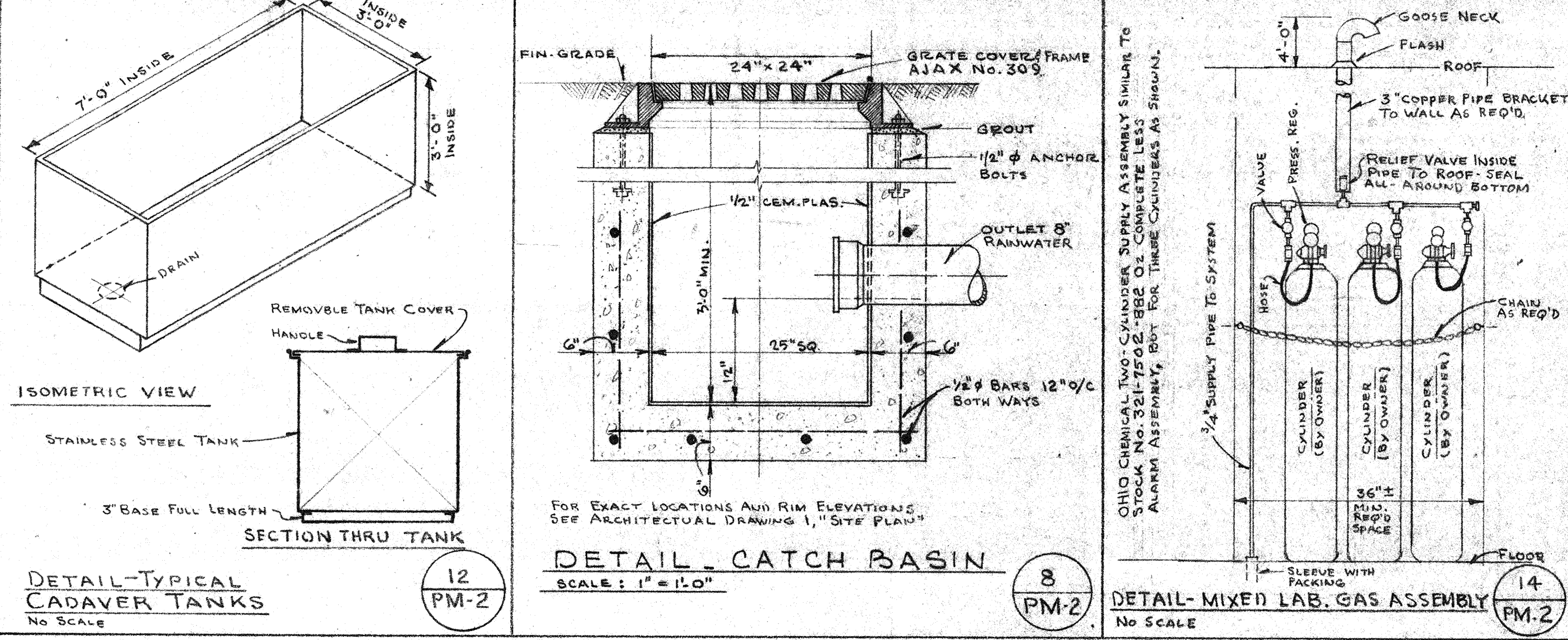
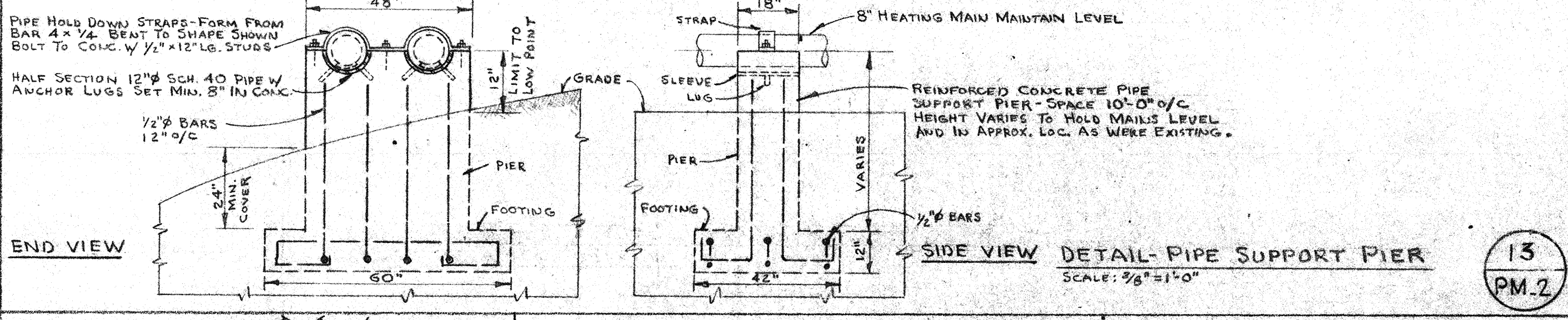
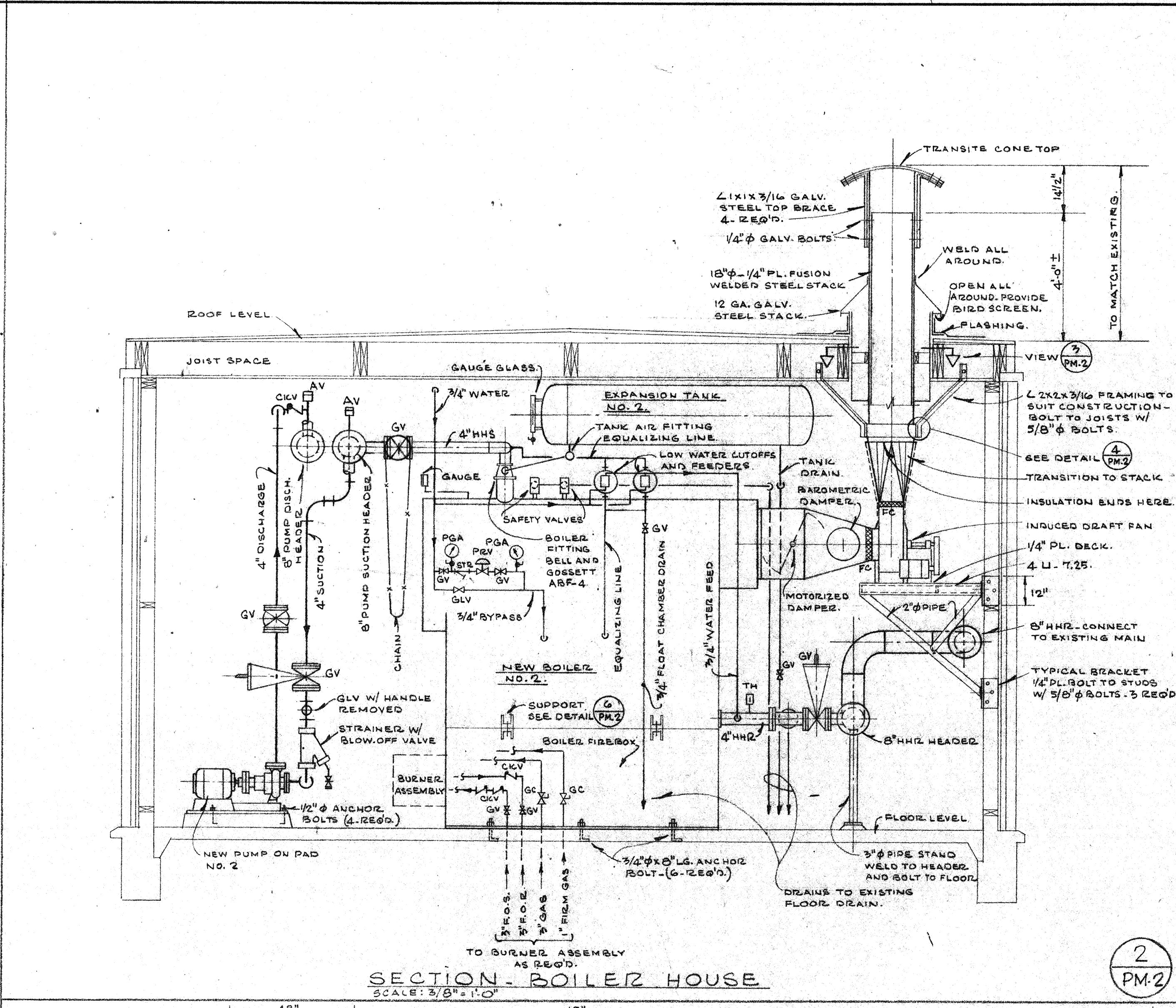
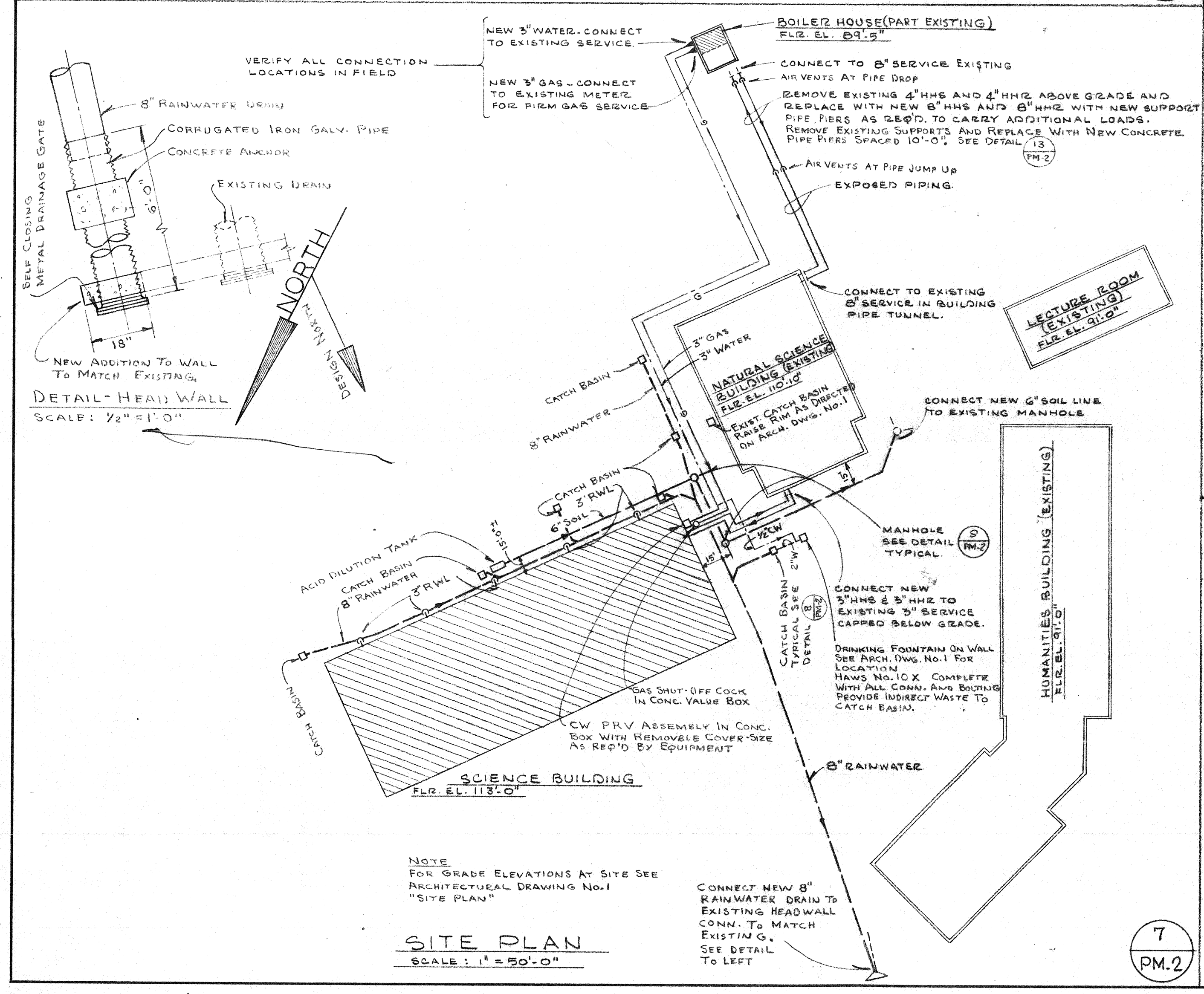
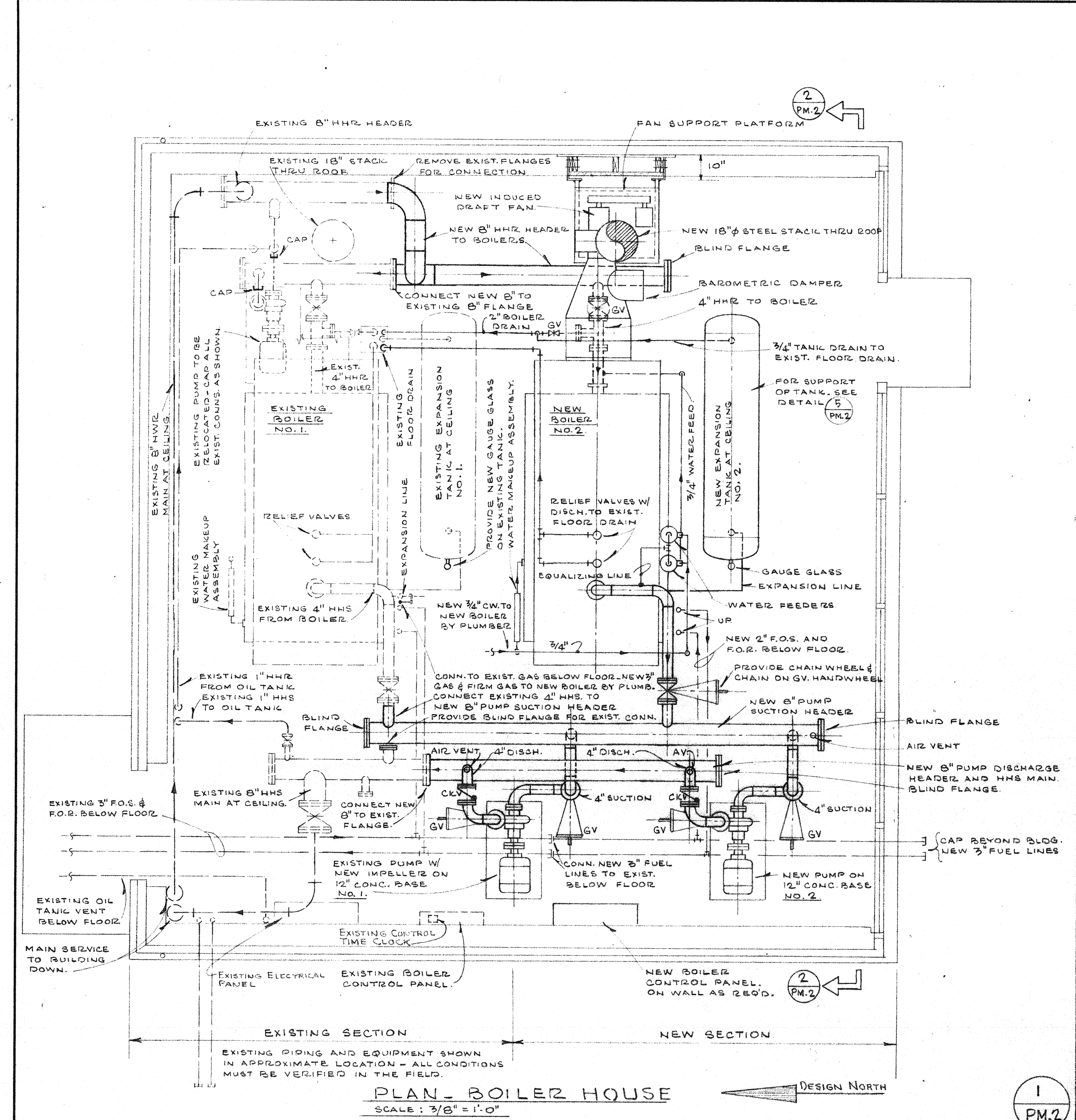
JOHN CARL WARNECKE AIA  
 JOHN CARL WARNECKE AIA  
 JOHN CARL WARNECKE AIA

CHARLES F. STROTHOFF AIA  
 CHARLES F. STROTHOFF AIA  
 CHARLES F. STROTHOFF AIA

SMITH & GARTHOPE  
 SMITH & GARTHOPE  
 SMITH & GARTHOPE

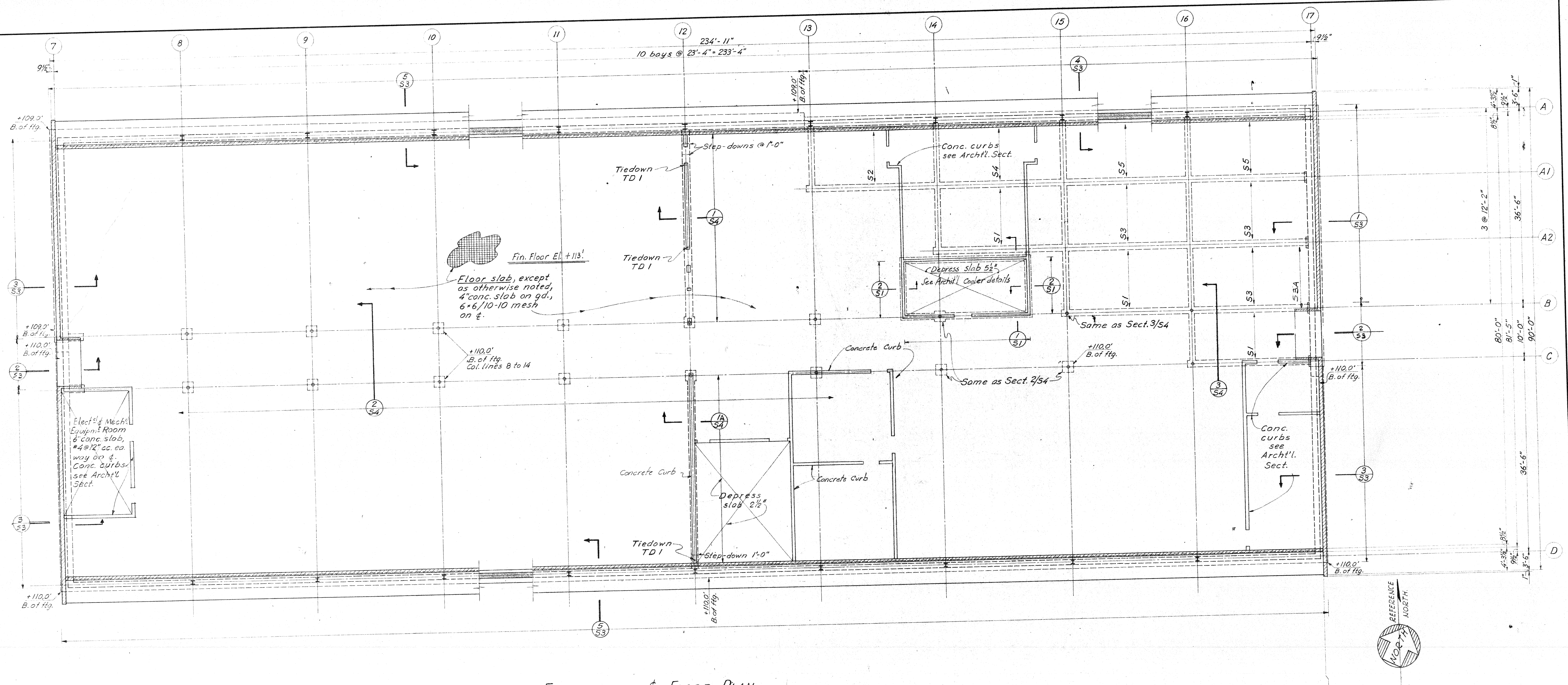
DATE: 21 DEC 1959  
 DWG. NO.: PM-1



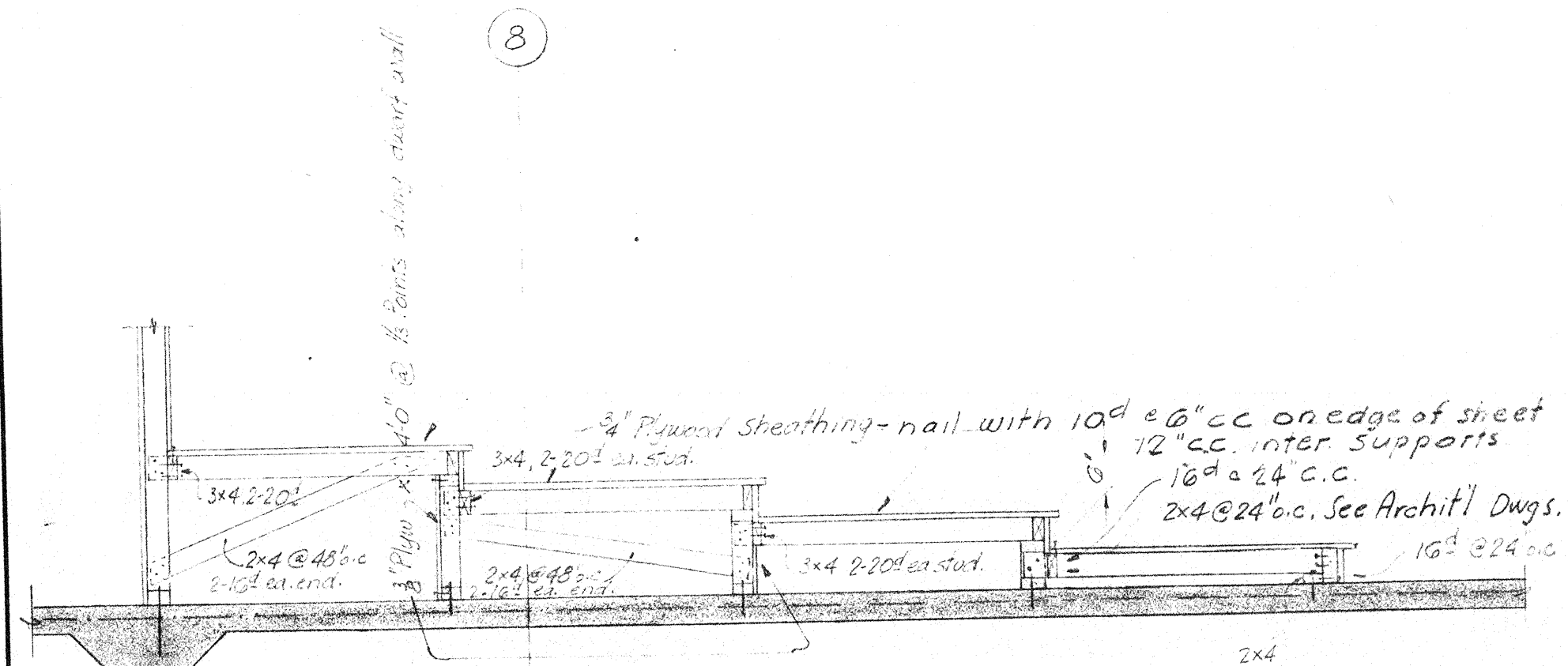


PLUMBING-MECHANICAL PLANS AND DETAILS			
SCIENCE BUILDING CONTRA COSTA COLLEGE SAN PABLO			
CONTRA COSTA JUNIOR COLLEGE DISTRICT MARTINEZ CALIF.			
JOB NO. 55-14	DATE 2/10/59	DRWN. BY M. W. S. HAYES	DATE 2/10/59
CHECKED BY G. H. B.	APPROVED BY G. H. B.	DESIGNED BY G. H. B.	DATE 2/10/59
G. H. B. ARCHITECTS		G. H. B. ARCHITECTS	
111 NEW MONTGOMERY ST. SAN FRANCISCO 1700 FINANCIAL CENTER BLDG. OAKLAND		855 MARKET STREET SAN FRANCISCO RICHMOND	

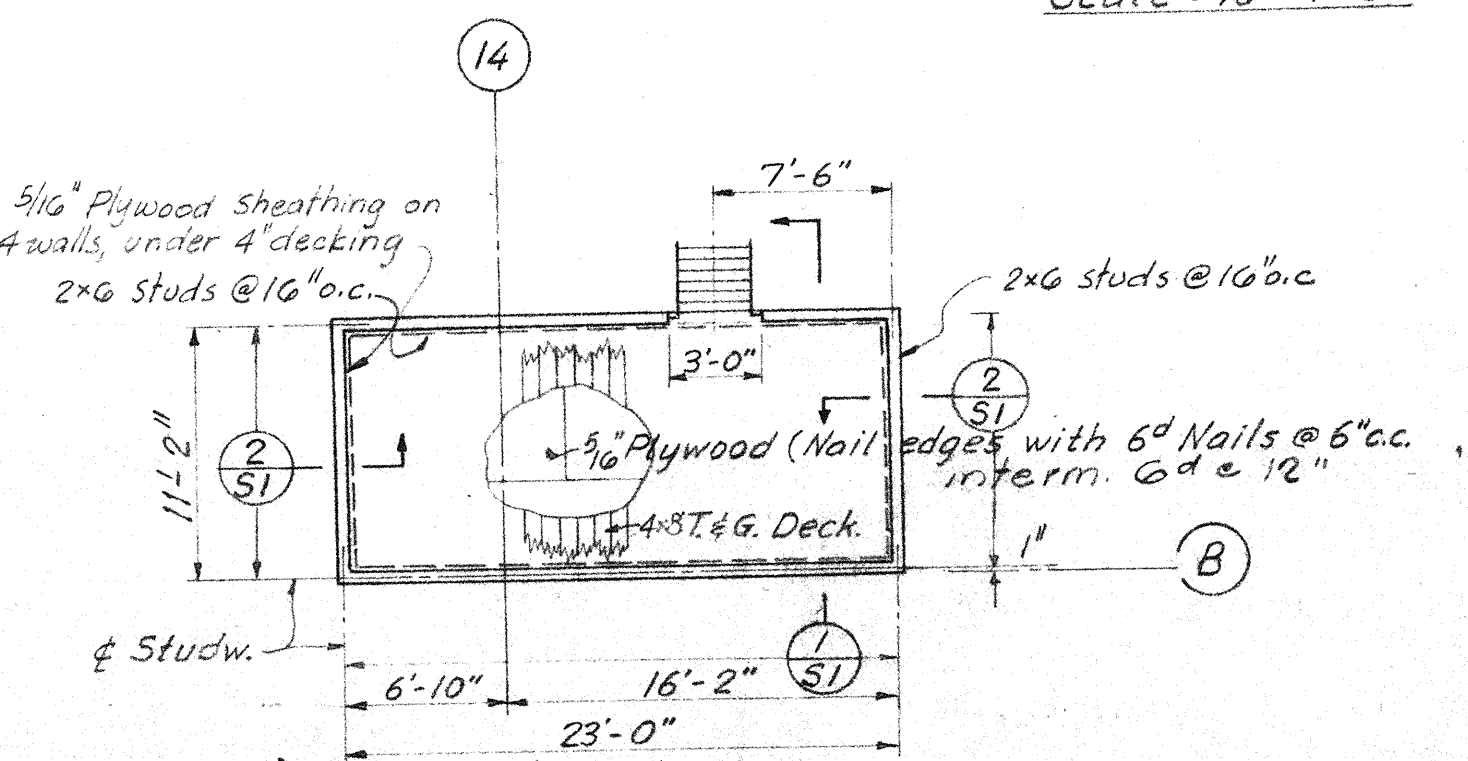




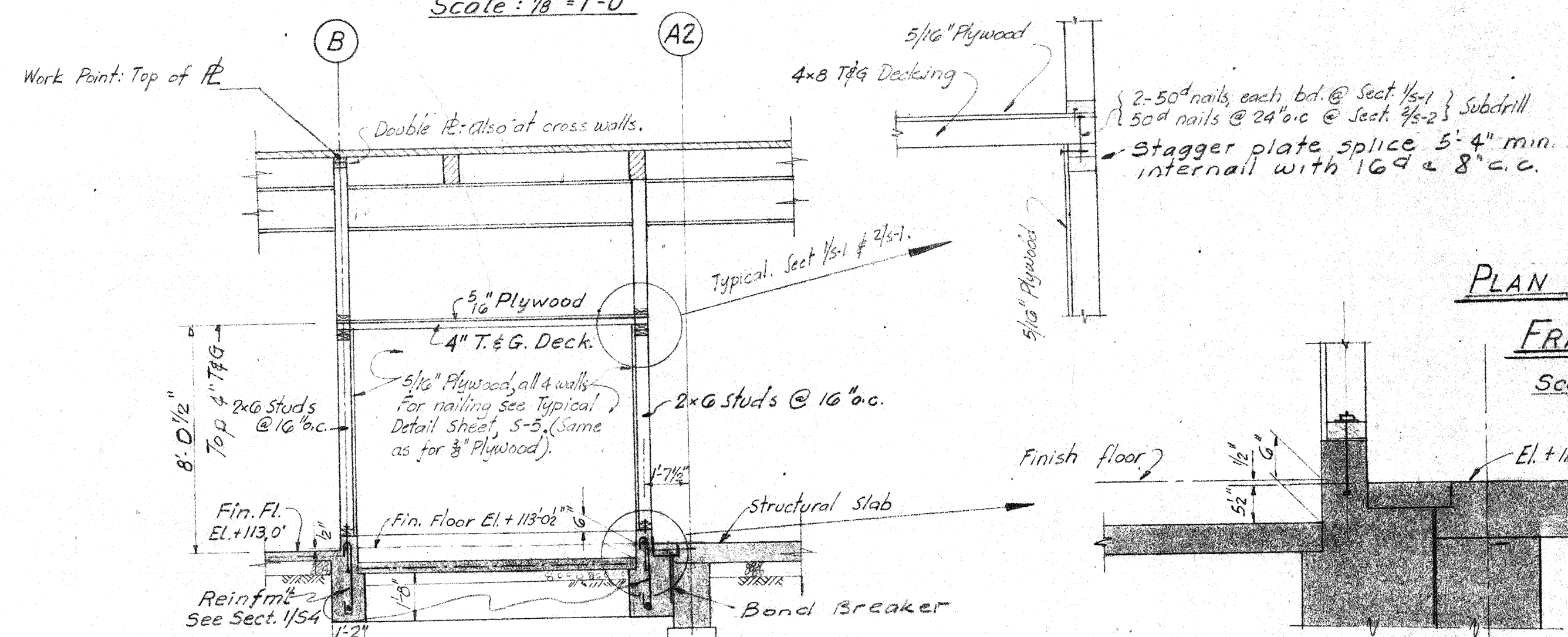
FOUNDATION & FLOOR PLAN  
Scale: 1/8" = 1'-0"



FRAMING OF LECTURE ROOM PLATFORM  
(A. ROOM 213 - SEE ARCH. PLAN)  
Scale: 1/4" = 1'-0"

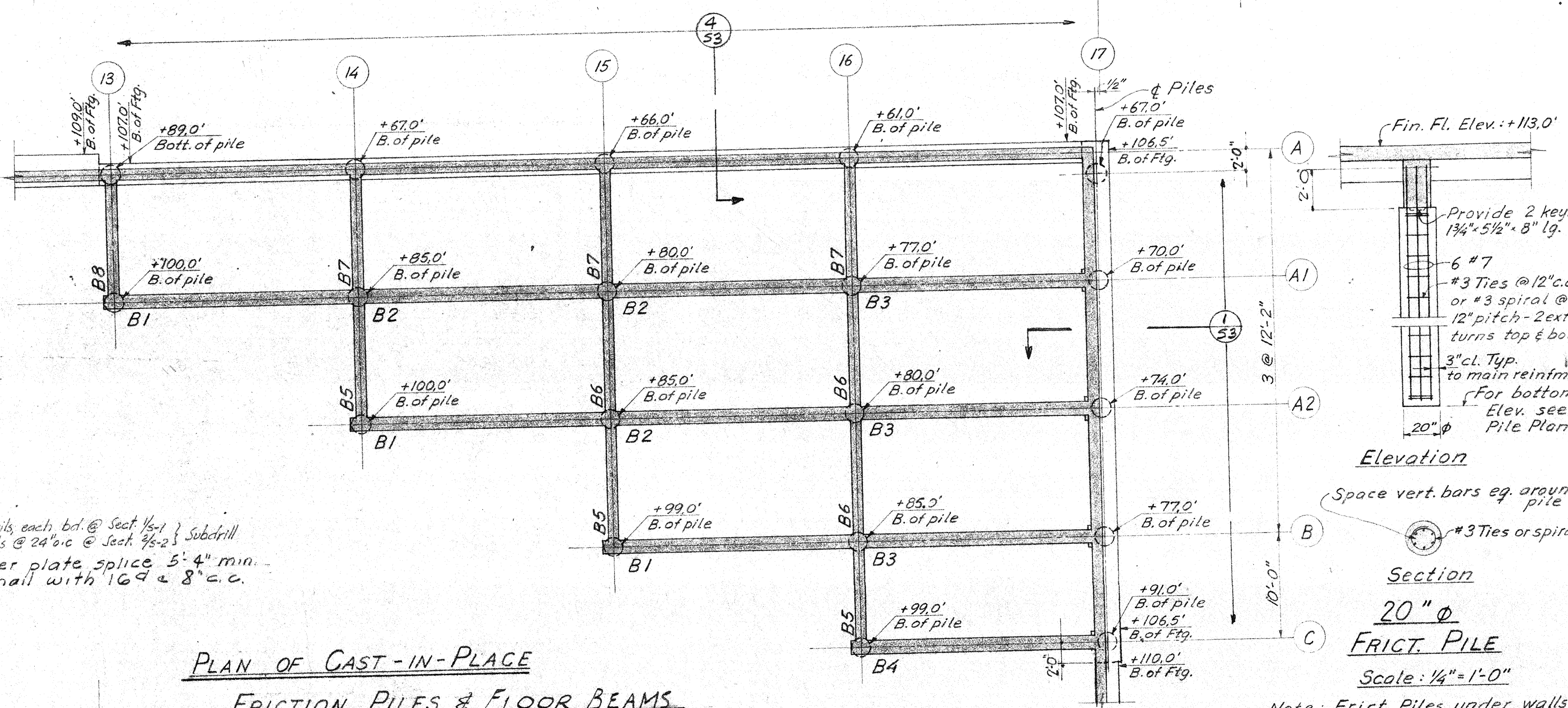


MEZZANINE FRAMING PLAN  
Scale: 1/8" = 1'-0"



SECT. (1) SHOWN. SECT. (2) SIMILAR  
Scale: 1/4" = 1'-0"

NOTE: Reinf. not shown



Elevation  
Section  
20" Ø  
FRIC. PILE  
Scale: 1/4" = 1'-0"

Note: Frict. Piles under walls - See pertinent Sections.

FIRST FLOOR AND FOUNDATION PLAN			
SCIENCE BUILDING			
CONTRA COSTA JUNIOR COLLEGE DISTRICT			
MARTINEZ CALIF.			
JOB NO.	GRAHAM & HAYES STRUCTURAL ENGINEERS	JOHN CARL WARNECKE AIA ARCHITECT	CHARLES F. STROTHOFF AIA ASSOCIATE ARCHITECT
DRAWN	GEORGE K. BROKAW MECHANICAL ENGINEER		
CHECKED	SMITH & GARTHORNE ELECTRICAL ENGINEERS		
	111 NEW MONTGOMERY ST. SAN FRANCISCO 1700 FINANCIAL CENTER BLDG. OAKLAND	885 MARKET STREET SAN FRANCISCO	268 10TH STREET RICHMOND
			DATE DEC-21-59 DWG. NO. SI

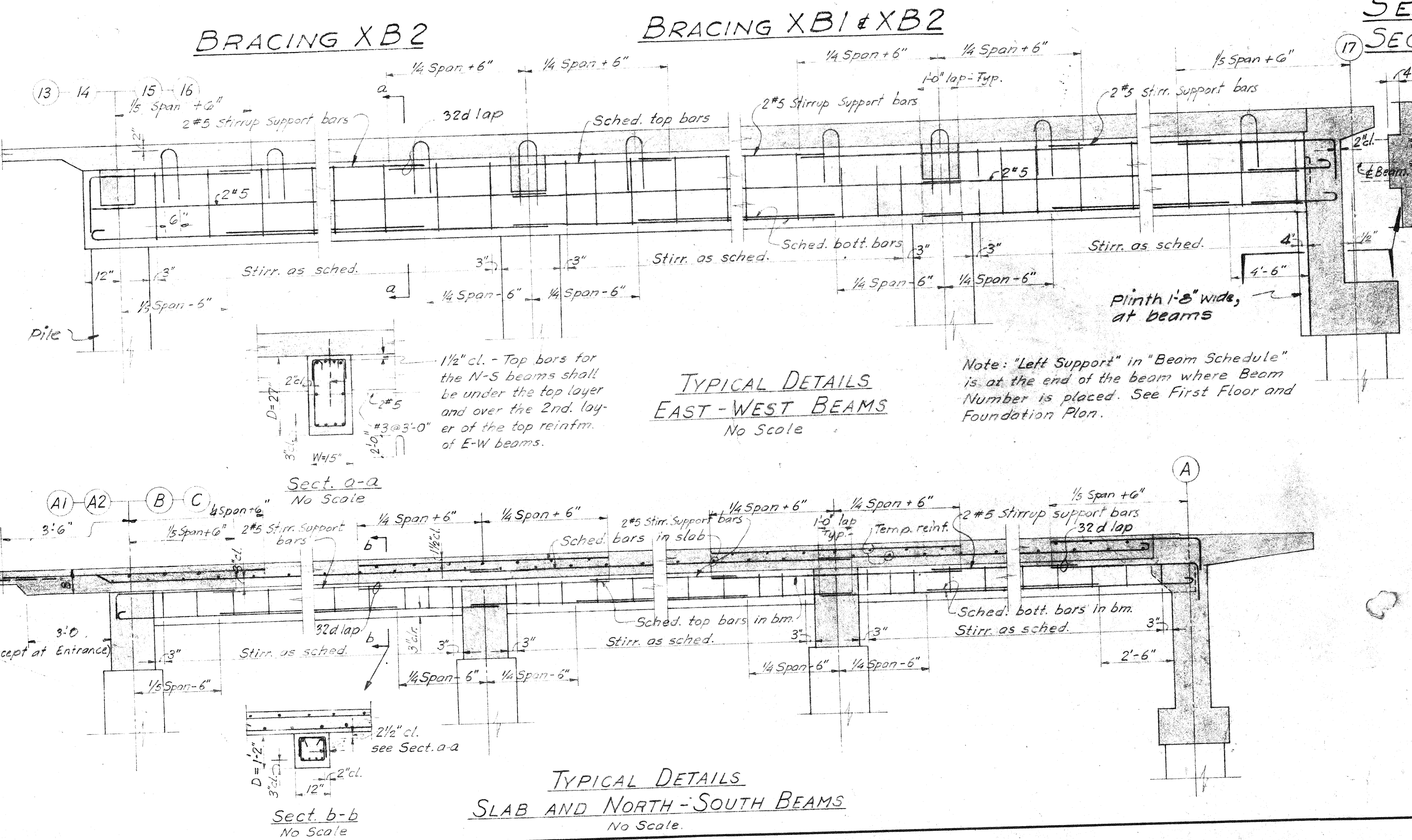
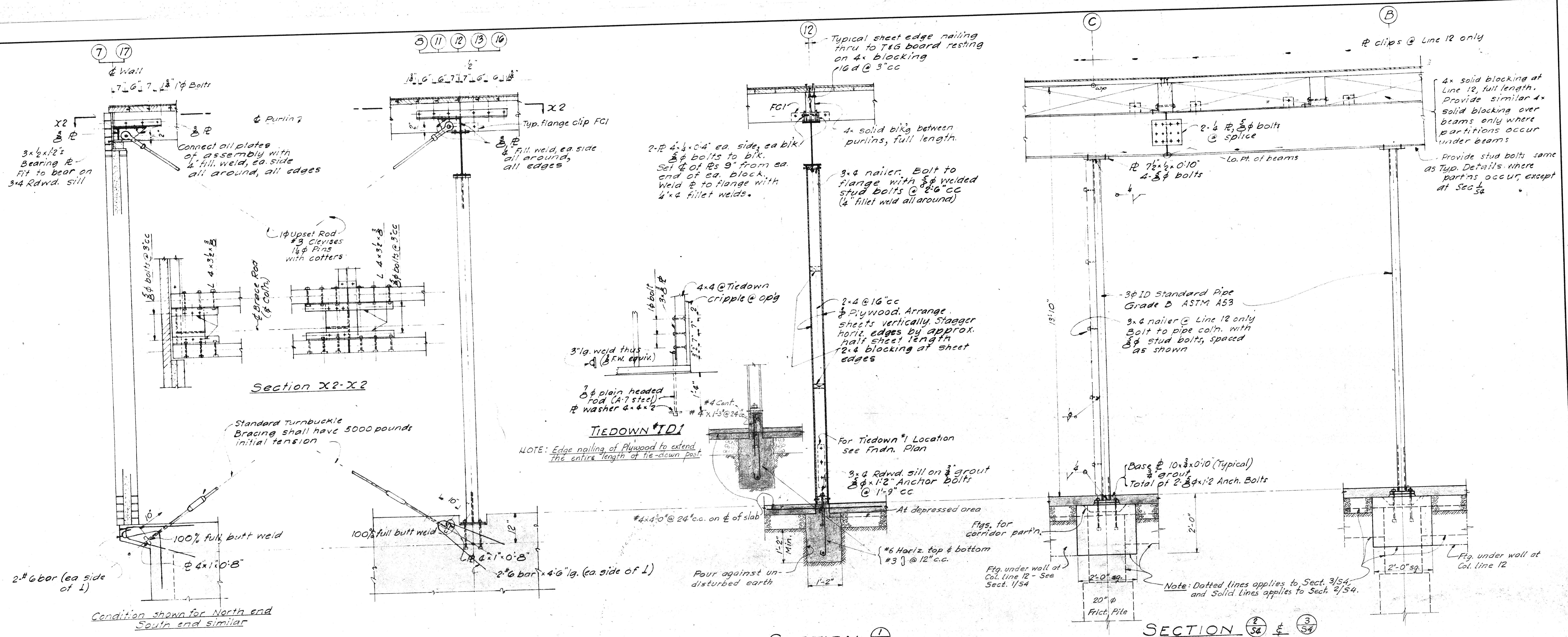












**SECTION 1/54 AT CURB**

Mark	Size	Reinforcement		Stirrups	Remarks
		Left	Right		
B1	15 27	3#7	3#10	#3 @ 18" cc. thruout	
B2	15 27	2#7	4#10	2#10, 2#12, remainder @ 18" cc. to E	
B3	15 27	2#9	3#7	2#10, 2#12, remainder @ 18" cc. to E	
B4	15 27	2#7	3#7	@ 18" cc. thruout	
B5	12 14	2#5	2#8	Fr. left supp. @ 12" cc. to E. Fr. right supp. 2#8, bol. @ 12" cc. to E	
B6	12 14	2#5	2#8	2#8, bol. @ 12" cc. to E	
B7	12 14	2#5	2#6	Fr. left supp. 2#8, bol. @ 12" cc. to E. Fr. right supp. @ 12" cc. to E	
B8	12 14	2#6	2#6	do	

Note: Dimensions shown are for formed sides, below slab. See Typical Details for trenched beams.

**SECTION 2/54**

Mark	Thick-ness in.	Reinforcement		Remarks
		Left	Right	
S1	8"	2#5 @ 10" cc. into 4' slab.	#5 @ 10" cc.	Temp. reinf. #4 @ 12" cc. thru-out
S2	8"	#5 @ 10" cc.	#5 @ 10" cc.	do
S3	8"	At 53 1#5 @ 10" cc.	#5 @ 10" cc.	do
S3A	8"	Bend into Beam - 53A	#5 @ 10" cc.	do
S4	8"	#5 @ 10" cc.	#5 @ 10" cc.	do
S5	8"	#5 @ 10" cc.	#5 @ 10" cc.	do

Note: Concrete shown in the Beam & Slab Schedule shall attain an ultimate compressive strength of 3000 lbs/sq. in. at the age of 28 days.

**SECTIONS.**

**SCIENCE BUILDING COLLEGE**

**CONTRA COSTA JUNIOR COLLEGE DISTRICT**

**MARTINEZ, CALIF.**

1987 APPROVED JUL 21

JOHN CARL WARNECKE AIA ARCHITECT

CHARLES F. STROTHOFF AIA ASSOCIATE ARCHITECT

JOHN CARL WARNECKE AIA ARCHITECT

CHARLES F. STROTHOFF AIA ASSOCIATE ARCHITECT

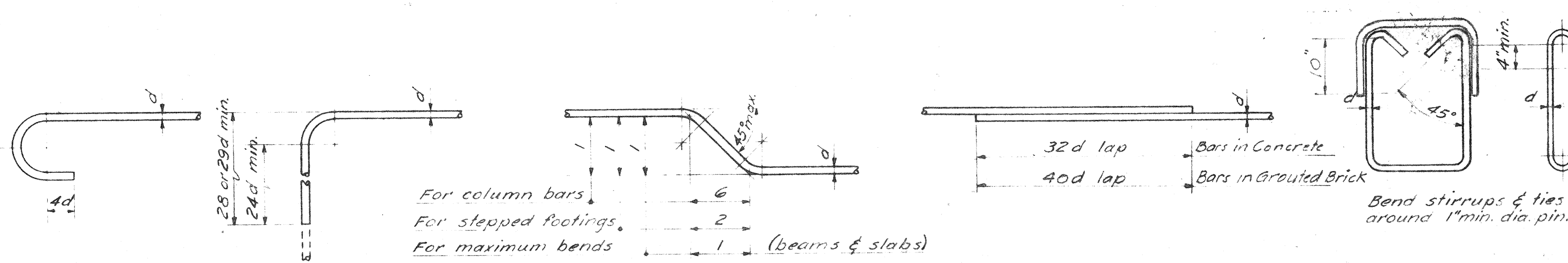
DATE DEC 21 89

DWG NO. S4

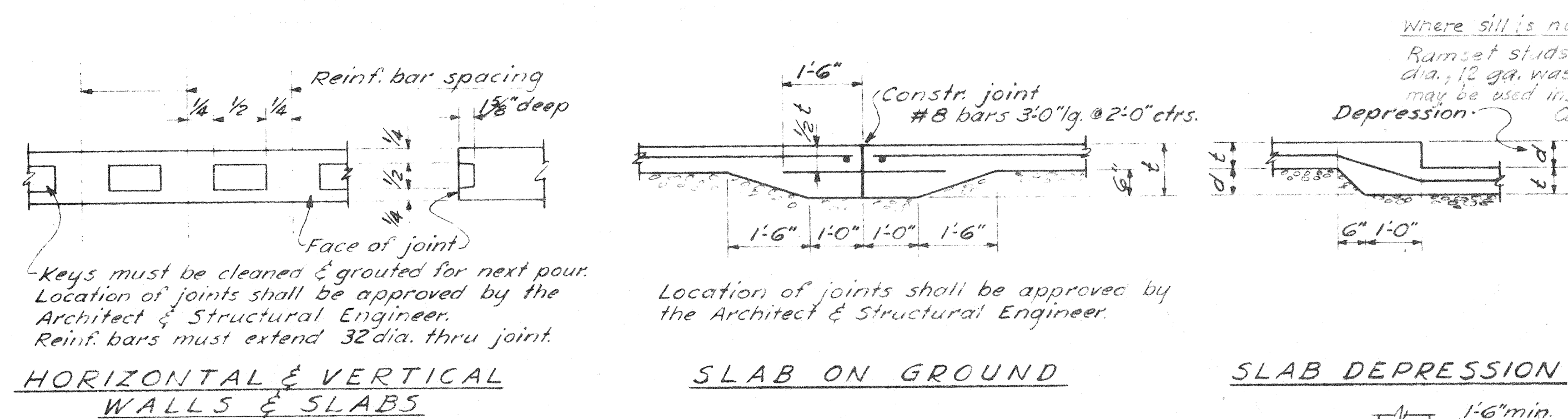


# TYPICAL DETAILS

THESE DETAILS SHALL APPLY EXCEPT WHERE OTHERWISE SHOWN



## REINFORCING BAR DETAILS



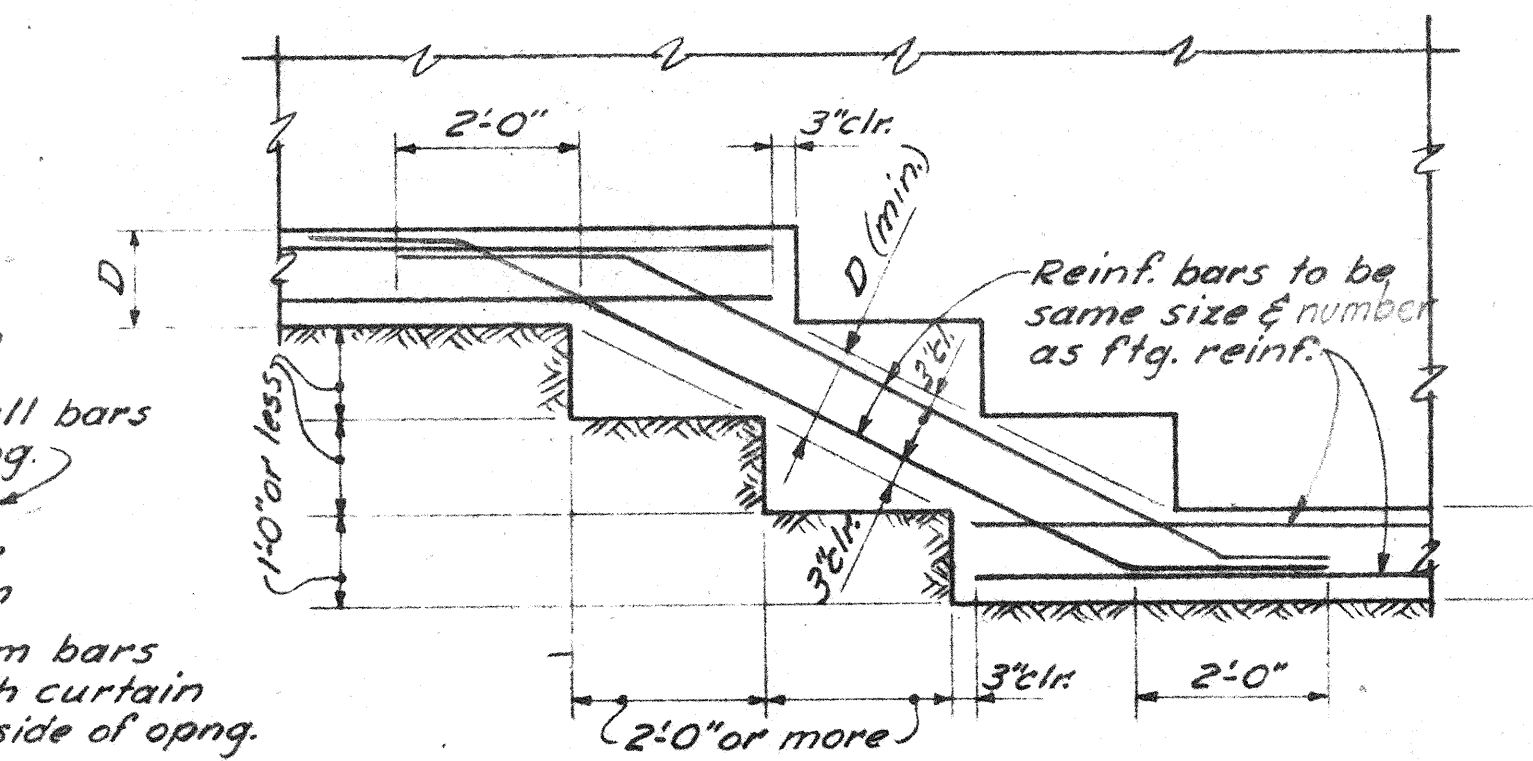
## HORIZONTAL & VERTICAL WALLS & SLABS

## SLAB ON GROUND

## SLAB DEPRESSION

## SILL & BOLTS NON-BEARING PARTITIONS

## PLAN OF CONC. WALL & FTG. REINFORCEMENT

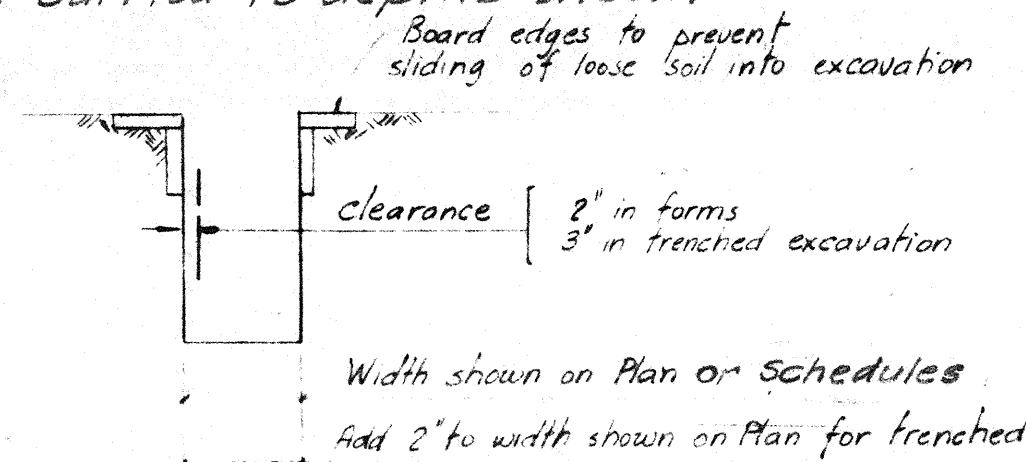


- GENERAL NOTES & TYPICAL DETAILS shall apply thruout the job, even to similar conditions & details, except where otherwise shown.
- CONCRETE shall develop 3000 lbs. per sq. in. minimum ultimate compressive strength in 28 days, except that for friction-belt slabs on grade may develop 2000 lbs. per sq. in. All concrete shall be reinforced. The location of all construction joints shall be approved by the Structural Engineer.
- REINFORCING BARS shall be deformed in accordance with A.S.T.M. A-305. Bars shall be continuous & in lengths as long as practical. Lap all bars & stagger splices. Shop dwgs. shall be approved by the Engineer before fab.
- STRUCTURAL STEEL shall be fabricated & erected conforming to A.I.S.C. specifications. Shop drawings shall be approved by the Structural Engineer before fabrication. Steel shall have one coat of shop paint.
- WELDING shall be done by "Certified" welders conforming to Am. Welding Society specifications & standards.
- BEAMS, JOISTS & PURLINS shall only be cut as shown on drawings & approved by the Structural Engineer. Holes & cutouts shall not be larger than 1/8th of depth of member from the top nor be located farther than 3 times depth of member from the support.
- PLYWOOD SHEATHING shall bear mark of "Douglas Fir Plywood Assn." & be Exterior Type Grade C-C of thickness shown on drawings. The face grain of horizontally laid plywood shall be perpendicular to its supports, joists, rafters & etc. All edges shall be supported & nailed. Stagger sheets by approximately 1/2 of sheet length. Center joints on supports. See "Typical Details" on this sheet.
- SOLID-BLOCKING indicated thus [symbol], shall be 2x unless otherwise shown. Blocking shall be full depth of members, studs, joists & etc. Walls between 8' & 16' ft. high shall have 1-row of blocking at mid-height. Walls over 16' ft. height shall have a row of blocking at 1/3 & at 2/3 of height.
- CROSS-BRIDGING shall be 2x3's (or 2x solid blocking). Rows of joist bridging shall not be more than 8' ft. apart nor more than 8' ft. from each end of joists.
- TIMBER FASTENERS & HANGERS shall be "TIM-FAST" as manufactured by Timber Fasteners, Inc., and nailed as indicated in Sections & Details where they appear.
- BOLTS in wood framing shall be standard machine bolts. Bolt holes in wood shall be 1/8" larger than bolt dia. Bolt heads & nuts shall bear upon standard malleable iron washers or steel plate washers.

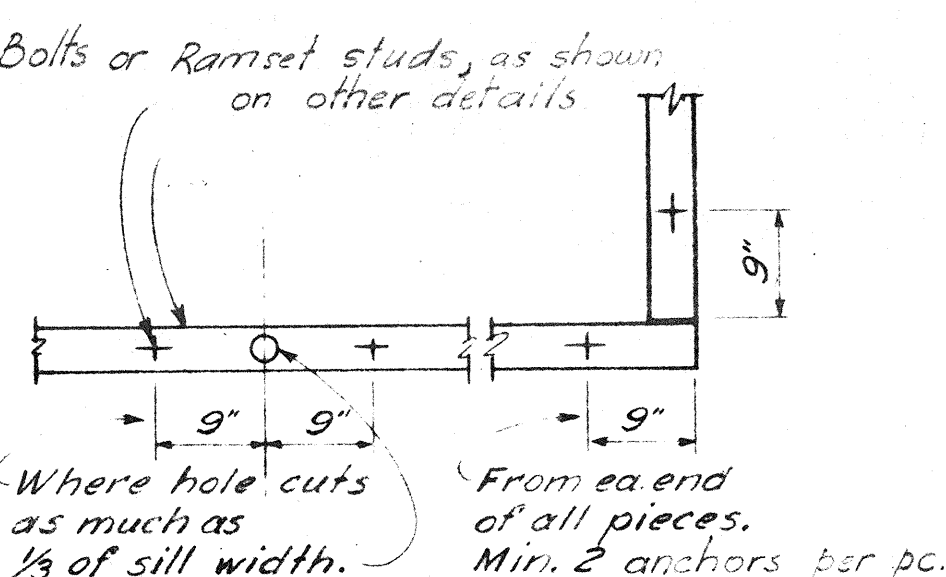
Steel plate washer sizes for:  
3/8" bolts, 3/8" min. thick, by 2 1/4" square.  
3/4" " 3/8" " " 2 1/2" "  
1" " 3/8" " " 3 1/8" "

- PIPES IN STUD WALLS shall have proper clearances. Maximum hole dia. shall be 1/3 of width of member & centered in width of member. Notching will not be allowed.
- NAILS shall be common wire nails of minimum quantities shown below. Where splitting of wood is likely to occur & where pre-drilling is noted on drawings, drill holes for nails 1/8" smaller than nail dia. & 1/2" less than nail length.  
Studs, posts & mullions to bearings 2-10d toenails ea. side  
Multiple studs, joists & rafters 16d @ 12" ctrs. staggered & 2 rows when larger than 4x  
Double top plates Lower plate to stud, post or mullion 2-20d per stud, post or mull. Upper plate to lower plate 16d @ 12" ctrs. staggered, top pls. 6 ft. & 6-16d ea. side of splice.  
Blocking between studs 2-10d each end  
Joists or rafters to side of studs 3-16d for members up to 8" depth. Add 1-16d for ea. additional 4" depth.  
Joists & rafters to all bearings 2-10d toenails ea. side  
Blocking between joists or rafters 2-20d per stud, post or mull. 16d @ 12" ctrs. staggered, top pls. 6 ft. & 6-16d ea. side of splice.  
Blkg. to brg. pl. on which joist or rafter rests 2-10d toenails ea. side, ea. end  
Cross-bridging between joists or rafters 2-8d ea. end  
Square-laid sheathing 2x T&G 2-16d ea. bearing, or end  
Plywood sheathing See Typ. Det. on this sheet  
Plywood flooring See Plan  
Ceiling strips See Typ. Det. on this sheet

- FOUNDATIONS shall bear upon firm undisturbed clayey soil capable of supporting 4500 lbs. per sq. ft. dead load plus live load. If elevations of bottom of footings shown on drawings do not reach undisturbed material as described, the Structural Engineer shall approve same before proceeding with the work. Friction Piles shall be carried to depths shown

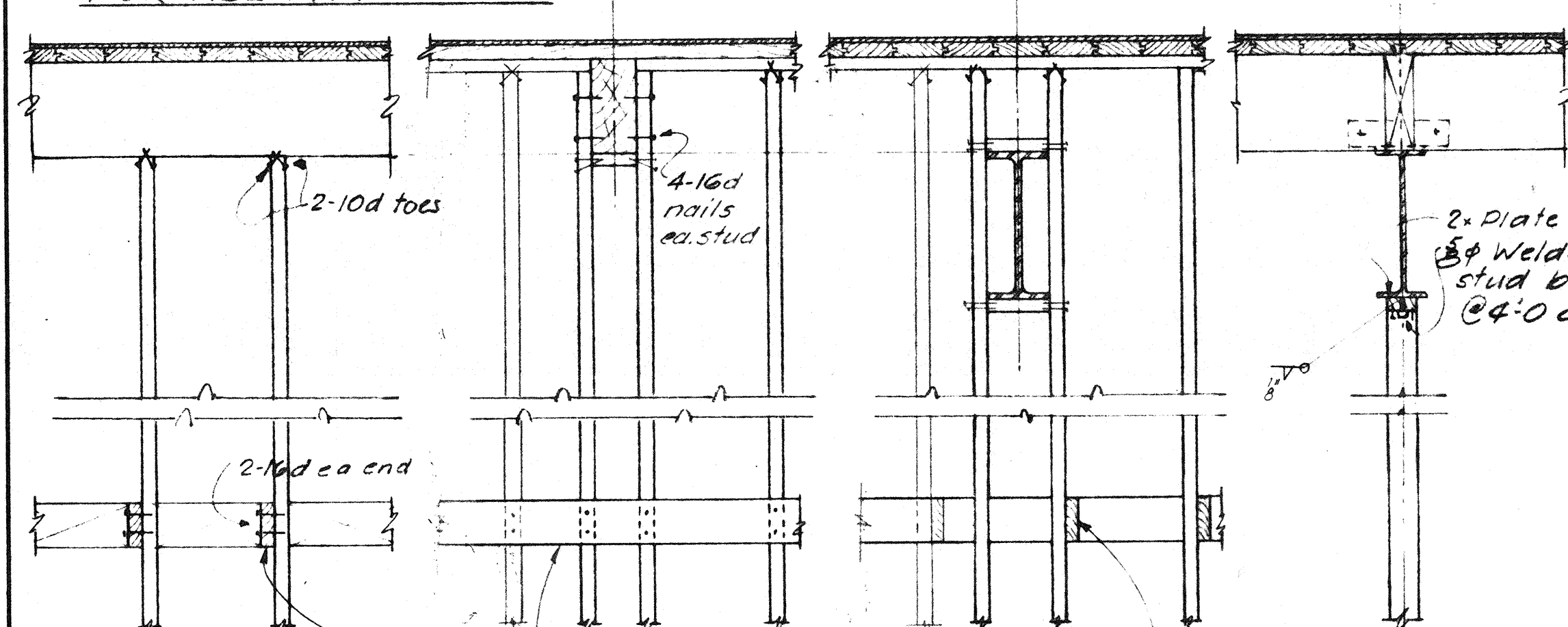


## FIELD DETAIL FOR TRENCHED FOOTING

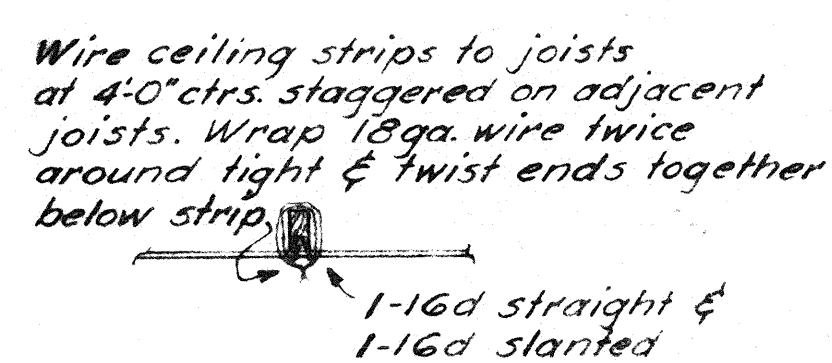


## PLAN OF SILL ANCHORS FOR ALL PARTITIONS

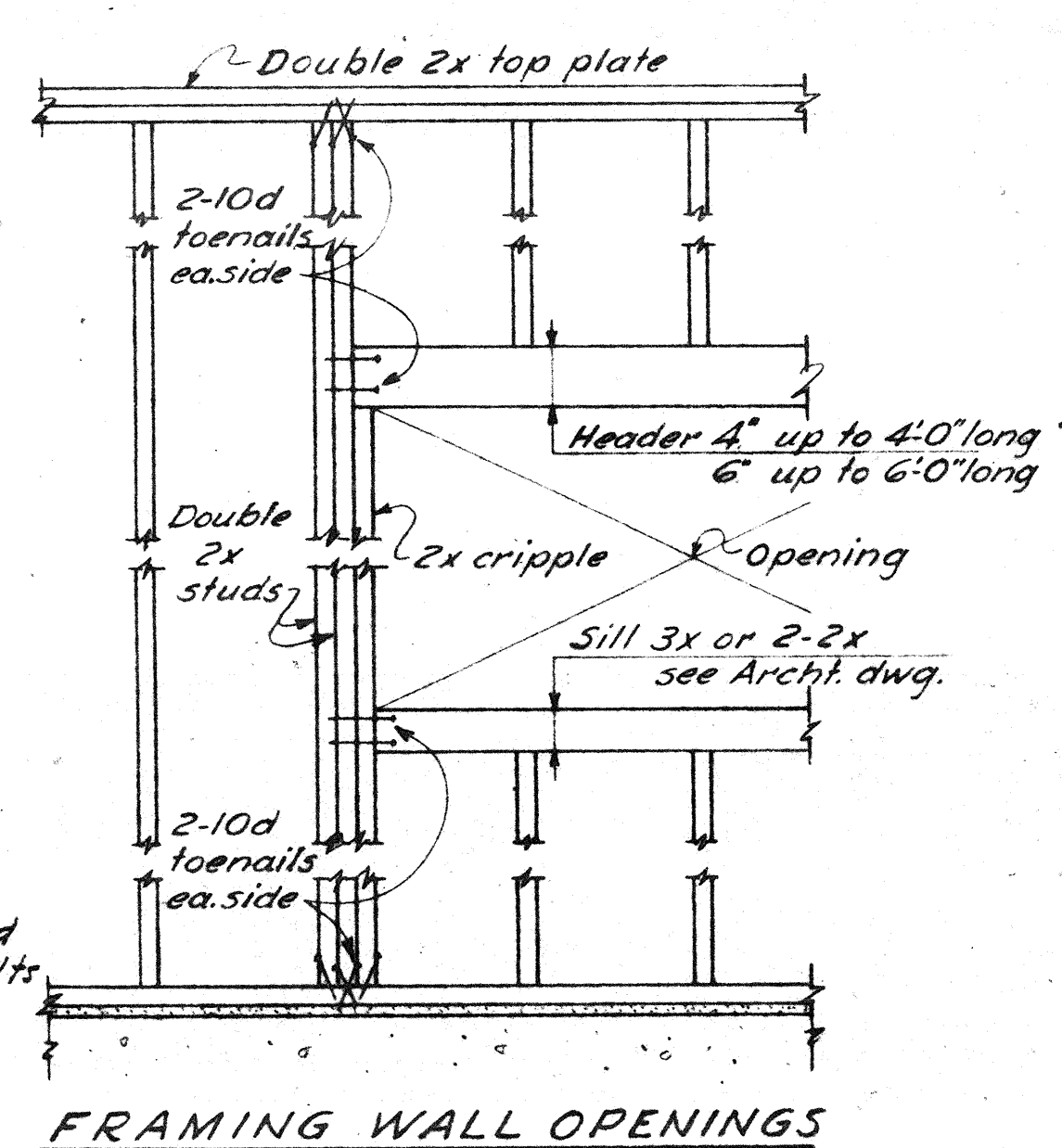
## PLAN OF STUD WALLS AT CORNERS



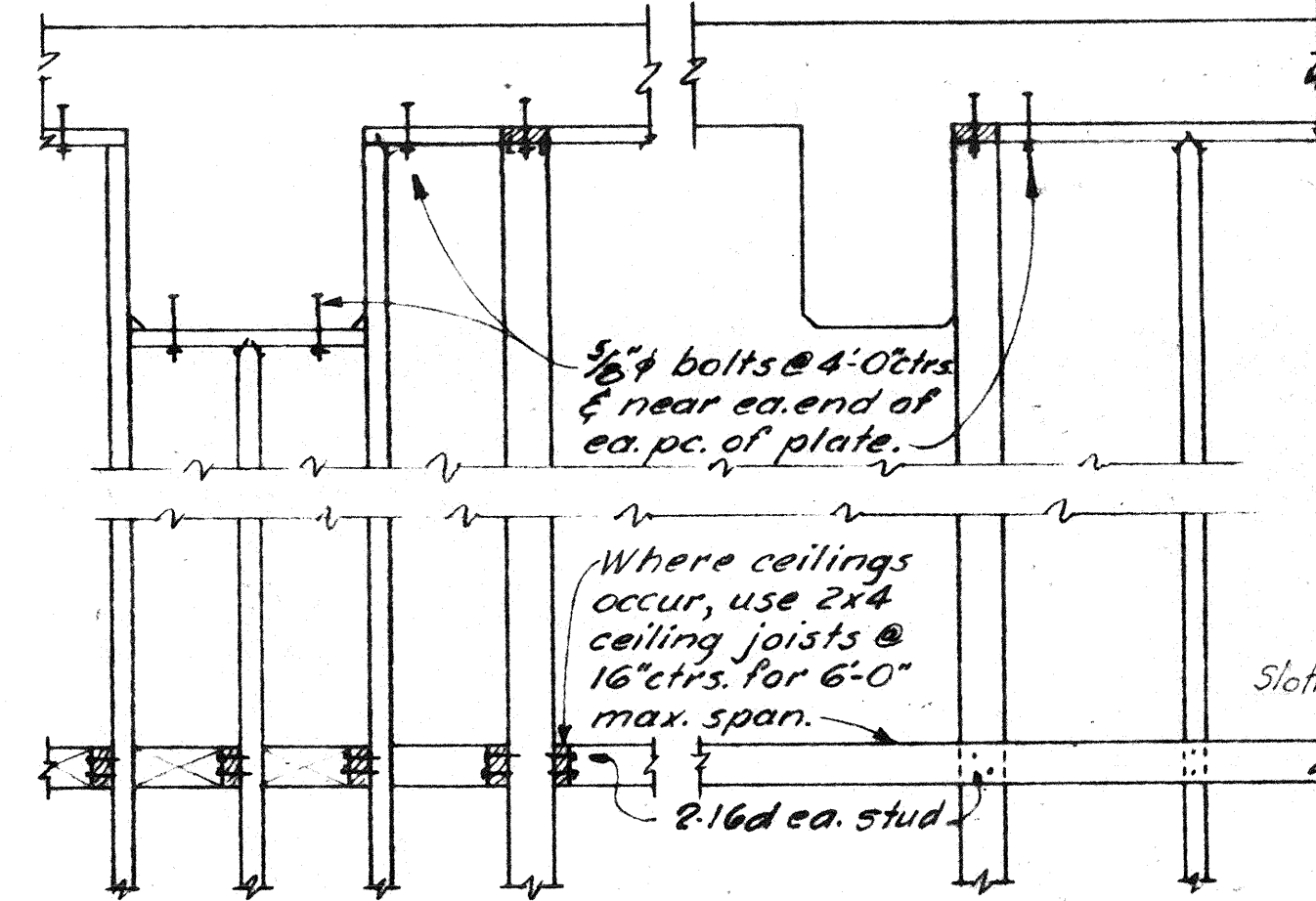
## TOP PLATES & CEILING JOISTS ON NON-BEARING PARTITIONS



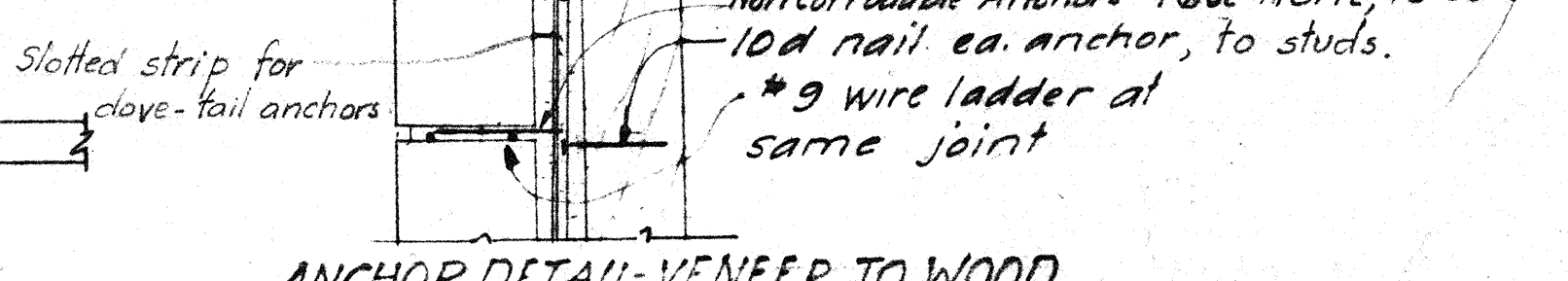
## CEILING STRIPS



## FRAMING WALL OPENINGS

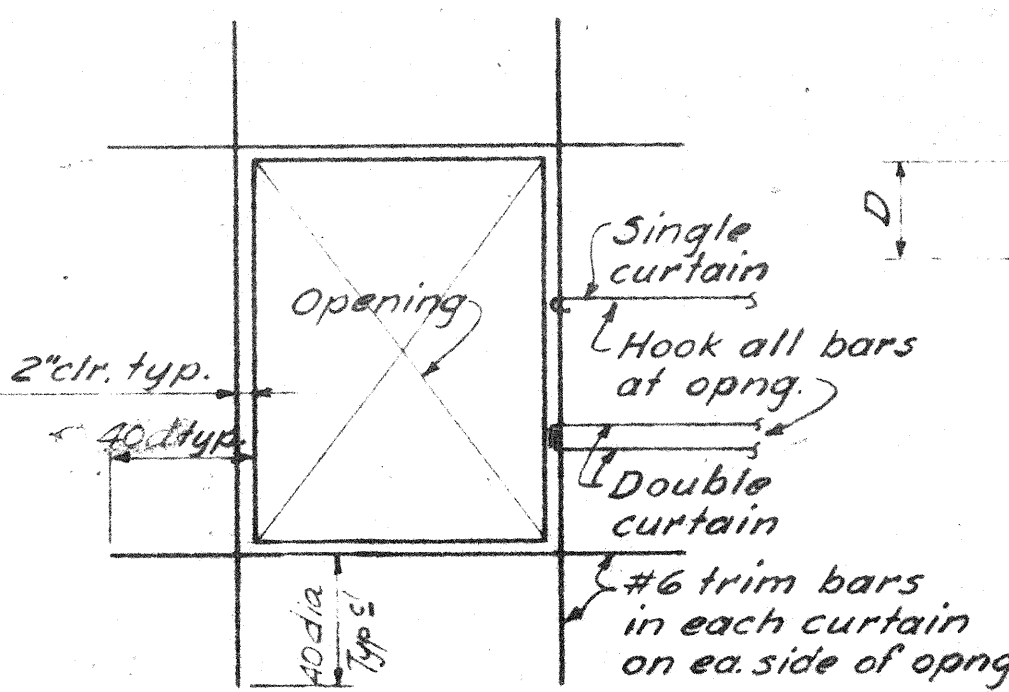


## NON-BEARING PARTITIONS

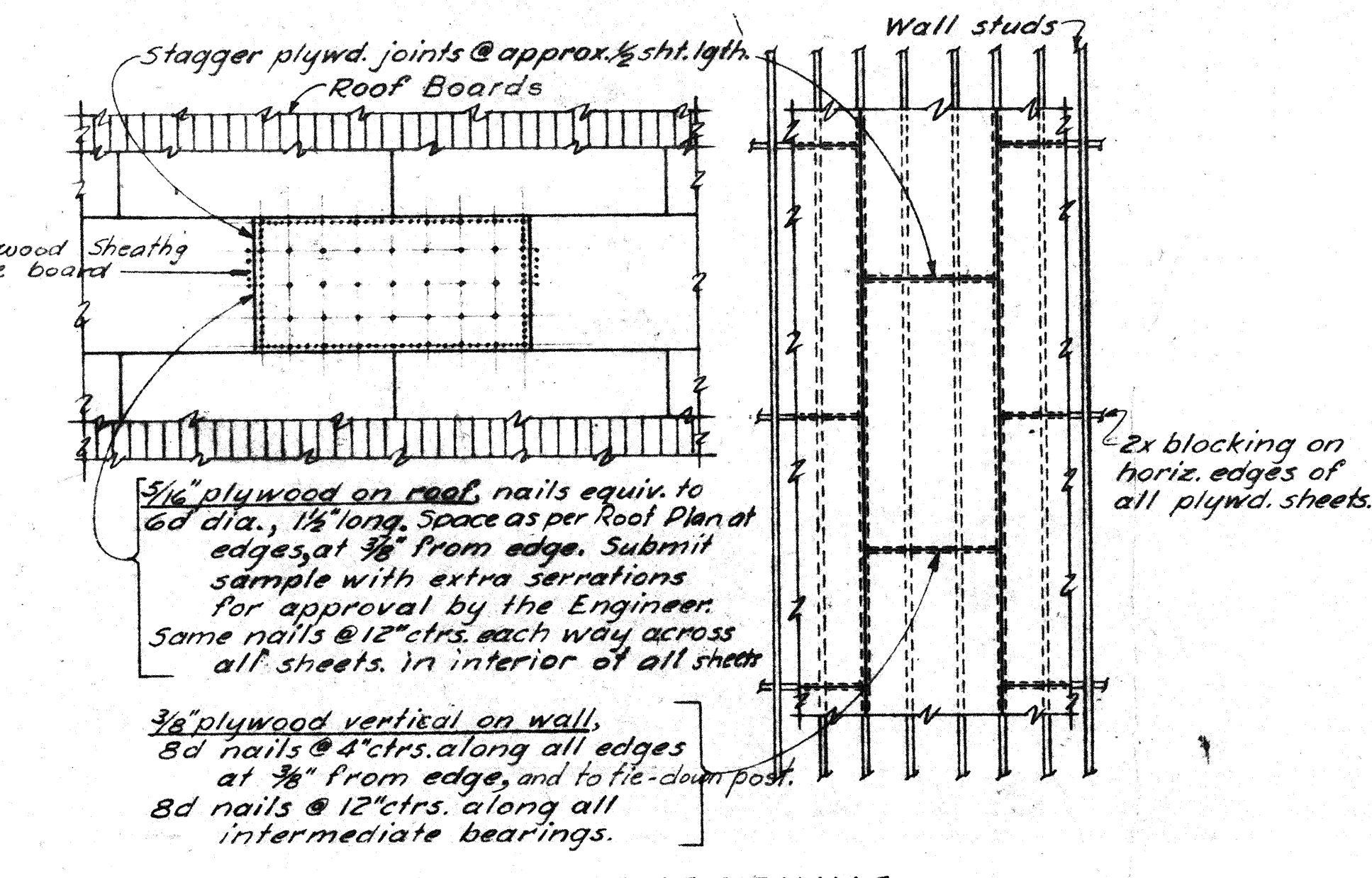


## ANCHOR DETAIL: VENEER TO WOOD

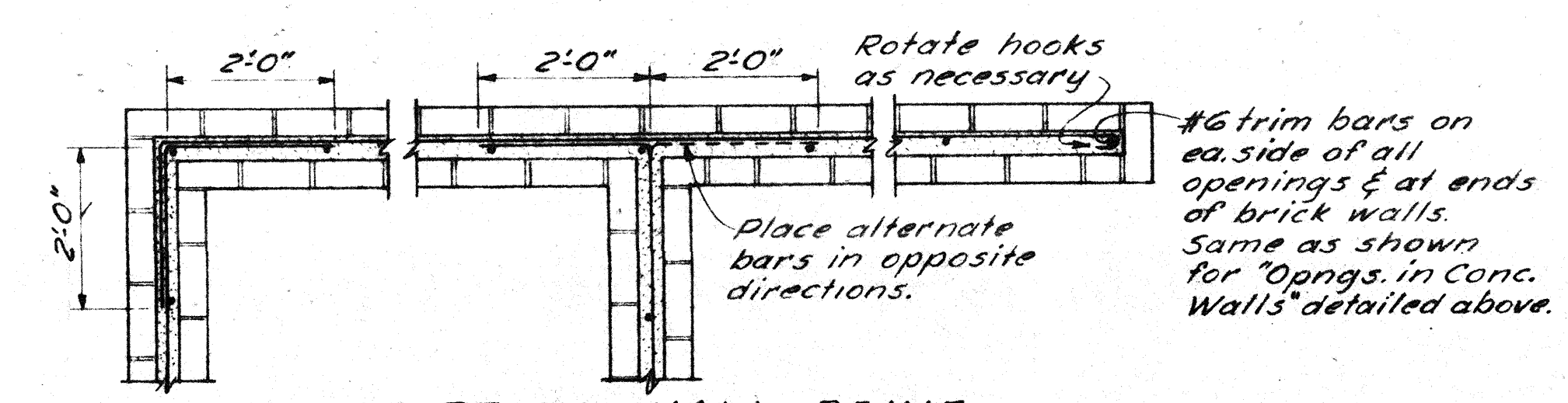
## OPENINGS



## STEP-DOWN FOOTING



## PLYWOOD SHEATHING



## PLAN OF BRICK WALL REINF.

T I M B E R

D E T A I L S

DETAILS - NOT TO SCALE

TYPICAL DETAILS - GENERAL NOTES			
SCIENCE BUILDING CONTRA COSTA COLLEGE SAN PABLO DISTRICT MARTINEZ, CALIF.			
JOB NO.	DATE	APPROVED	DATE
DESIGNED BY	JOHN CARL WARNECKE AIA	APPROVED BY	CHARLES F. STROTHOFF AIA
CHECKED BY	GEORGE K. BROKAW	MECHANICAL ENGINEER	ASSOCIATE ARCHITECT
DATE	DEC. 21-59	DATE	DEC. 21-59
SCALE	1" = 1'-0"	SCALE	1" = 1'-0"
PROJECT NO.	111 NEW MONTGOMERY ST. SAN FRANCISCO	PROJECT NO.	111 NEW MONTGOMERY ST. SAN FRANCISCO
PROJECT NO.	1700 FINANCIAL CENTER BLDG. OAKLAND	PROJECT NO.	1700 FINANCIAL CENTER BLDG. OAKLAND
PROJECT NO.	555 MARKET STREET SAN FRANCISCO	PROJECT NO.	555 MARKET STREET SAN FRANCISCO
PROJECT NO.	1001 10TH STREET RICHMOND	PROJECT NO.	1001 10TH STREET RICHMOND

\$5