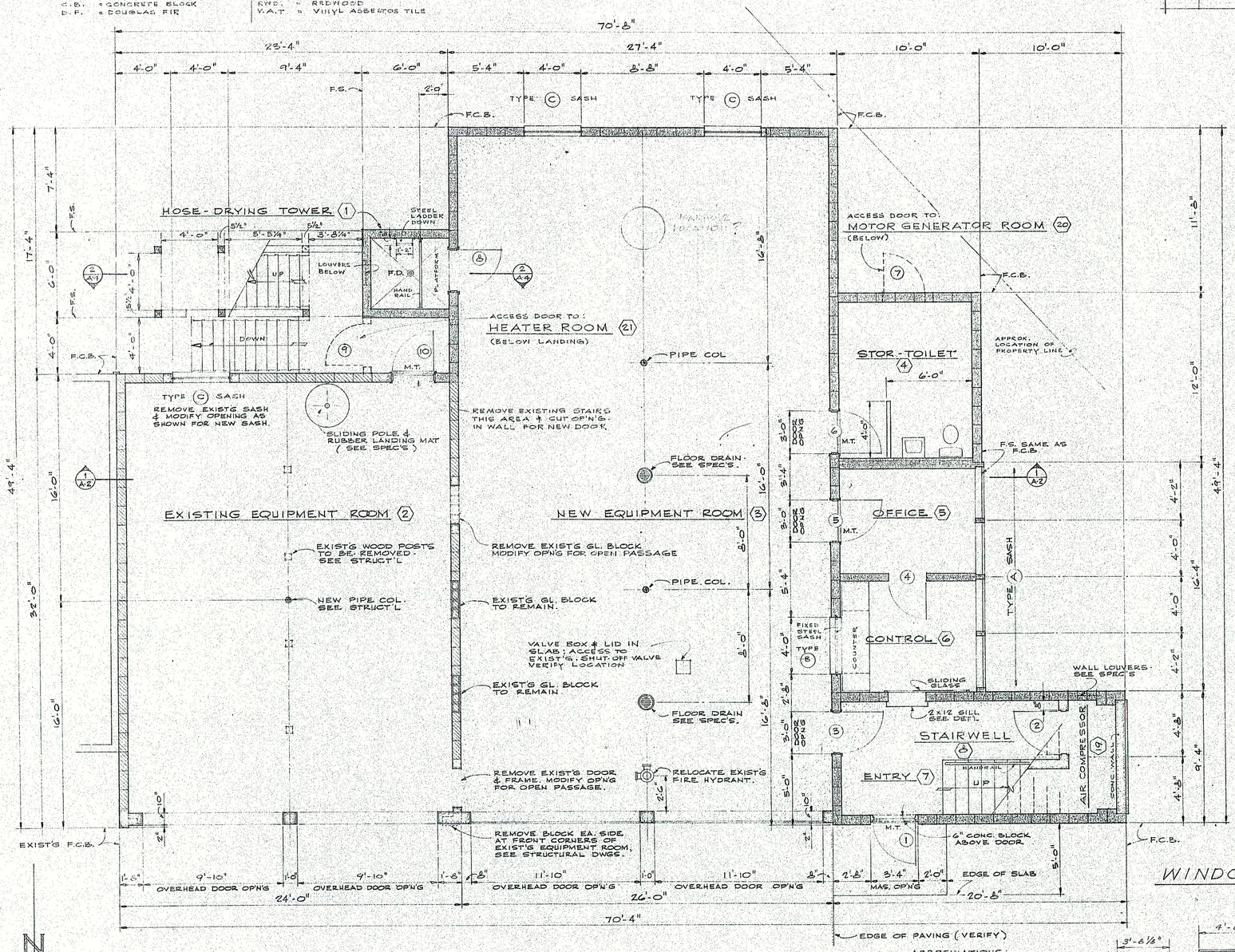
ROOM FINISH SCHEDULE

NO.	ROOM	FLOOR MATERIAL	FLOOR FINISH	BASE MATERIAL	BASE FINISH	WALLS MATERIAL	WALLS FINISH	WAINSCOT MATERIAL	WAINSCOT FINISH	CEILING MATERIAL	CEILING FINISH	TRIM MATERIAL	TRIM FINISH	CABINETS MATERIAL	CABINETS FINISH	REMARKS
1	HOSE DRYING TOWER	CONC.	H.	CONC.		5/16" C.A.B. ON 1/2" GYP. SHTG	PAINT			5/16" C.A.B. ON 1/2" GYP. SHTG	PAINT	RWD	PAINT			PAINT WOOD DECKS, PIPE HANDRAILS & HOSE-DRYING RACKS.
2	EXIST'G EQUIPMENT RM		PATCH AS REQ'D			C.B.				G.B.		D.F.				
3	NEW EQUIPMENT ROOM		H.			C.B.										
4	STORAGE - TOILET	LINOLEUM		LINO. COVE		C.B. & G.B.										FURR CEILING TO 8'-0".
5	OFFICE	V.A.T.		VINYL						AC.T. OVER G.B.						" " AS PER SECTION 1/A-2.
6	CONTROL	V.A.T.		VINYL						AC.T. OVER G.B.				D.F.	STAIN	" " " " " "
7	ENTRY	CONC.	H.			CONC. & C.B.				CONC.	PAINT					STAIN WRITING SHELF.
8	STAIRWELL	CONC.	H.			CONC. & C.B.				AC.T. OVER G.B.		D.F.	PAINT			PAINT PIPE HANDRAIL.
9	STORAGE	V.A.T.		VINYL		C.B. & G.B.				G.B.	PAINT					
10	MECHANICAL	1/2" PLYW'D	PAINT	D.F.	PAINT											
11	WOMEN'S TOILET	LINOLEUM		LINO. COVE												METAL TOILET PARTITIONS - SEE SPEC'S. FURR CEILING TO 8'-0".
12	TRAINING HALL	V.A.T.		D.F.	STAIN	4" PLY. ON G.B. 1/2" PLY. & C.B.	STAIN			AC.T. OVER G.B.			STAIN			STAIN BLIND DOORS TO MATCH PLYW'D WALL.
13	HALL	V.A.T.		VINYL		G.B.	PAINT			G.B.	PAINT		PAINT			
14	MEN'S TOILET	LINOLEUM		LINO. COVE			ENAMEL						ENAMEL			METAL TOILET PARTITIONS - SEE SPEC'S. ALL TILE SHOWER - FURR DOWN AS SHOWN. 2 x 4/6 (FLAT) STUDS @ 16" O.C. @ WEST WALL - SEE SECTION 1/A-2.
15	MECHANICAL	1/2" PLYW'D	PAINT	D.F.	PAINT		PAINT						PAINT			
16	RECREATION	V.A.T.		VINYL						AC.T. OVER G.B.						1/4" PLYW'D OVER G.B. AT SL. POLE ALCOVE.
17	DORMITORY	V.A.T.		VINYL						AC.T. OVER G.B.				D.F.	STAIN	
18	KITCHEN	LINOLEUM		LINO. COVE			ENAMEL			G.B.	ENAMEL		ENAMEL	D.F.	STAIN	
19	AIR COMPRESSOR	CONC.	H.			CONC. & C.B.	PAINT			CONC.	PAINT					
20	MOTOR GENERATOR					CONC.				CONC.						
21	HEATER ROOM					C.B. & G.B.				G.B.						

ABBREVIATIONS:
A.C.T. = ACOUSTICAL TILE
C.A.B. = CEMENT ASBESTOS BOARD
C.B. = CONCRETE BLOCK
D.F. = DOUGLAS FIR
G.B. = GYPSUM WALL BOARD
H = HARDENER
RWD. = REDWOOD
V.A.T. = VINYL ASBESTOS TILE

DOOR SCHEDULE

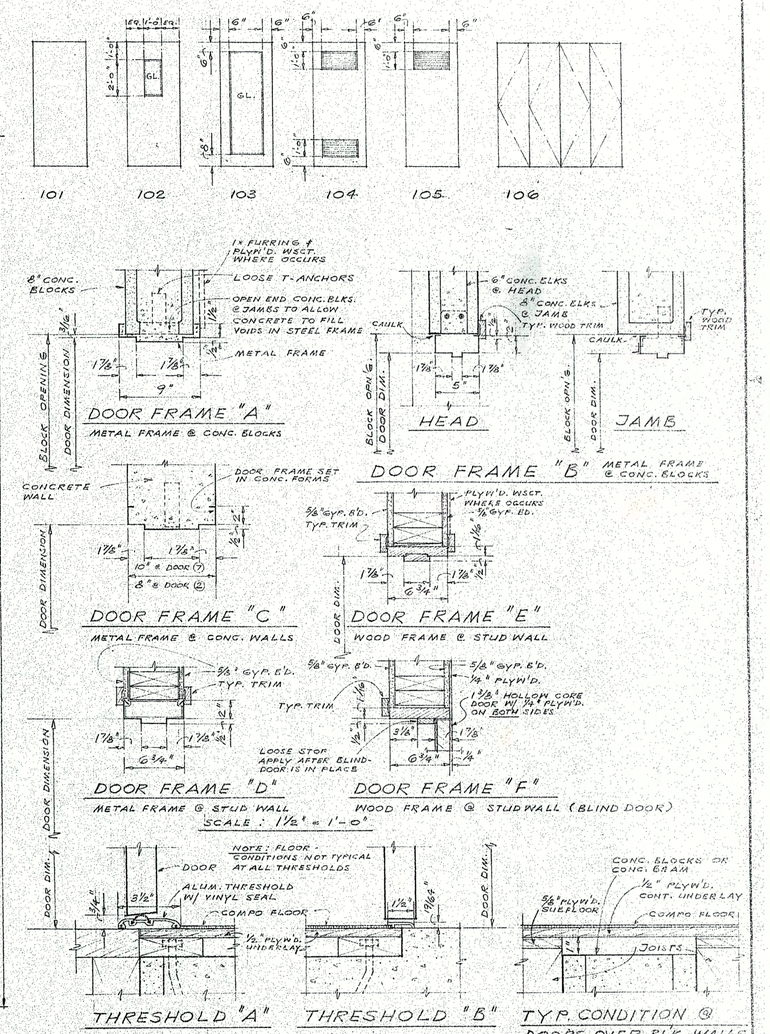
NO.	DIAGRAM	SIZE WIDTH	SIZE HEIGHT	SIZE THICK.	MATERIAL	FRAME TYPE	THRESHOLD TYPE	REMARKS
1	103	3'-0"	7'-2 3/8"	1 3/4"	HOLLOW-METAL	"B"	"A"	
2	101	3'-2"	4'-0"		SOLID-CORE WOOD	"C"		
3	102	3'-0"	6'-8 5/16"			"A"		
4	102		6'-8"			"E"		
5	102		6'-8 5/16"			"A"	"B"	
6	101		6'-8 5/16"			"A"	"B"	
7	104		6'-8"		HOLLOW-METAL	"C"	"A"	
8	101		6'-8 5/16"		SOLID-CORE WOOD	"A"		
9	105		*4'-0"±		HOLLOW-METAL	"D"		CLASS "C" LABEL FIREDOOR & FRAME. *BOTT. OF DOOR = 6" CLEAR OF SLAB (VERIFY)
10	101		6'-8 5/16"		SOLID-CORE WOOD	"A"	"A"	
11	101		7'-2 11/16"					
12	102						"A"	
13	101							
14	101							
15	102						"B"	
16	101		7'-0"		HOLLOW-METAL	"D"	"B"	CLASS "C" LABEL FIREDOOR & FRAME.
17	102				SOLID-CORE WOOD	"E"		
18	101							
19	102							
20	101							
21	103				SOLID WOOD FRAME			
22	106	7'-0"		1 3/8"	SOLID CORE WOOD 1/4" PLYW'D EA. SIDE	"F"		BLIND DOOR.
23	101	2'-0"		1 3/8"	"	"F"		BLIND DOOR.



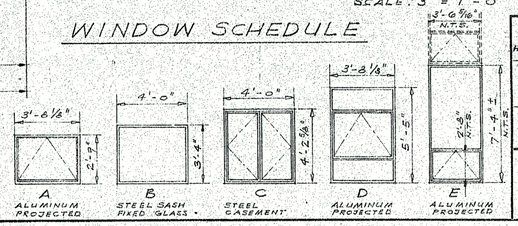
FIRST FLOOR PLAN • 1/4" = 1'-0"

LEGEND:
EXISTING WORK TO REMAIN.
EXIST'G WORK TO BE REMOVED.
NEW CONCRETE CONSTRUCTION.
ALL OTHER NEW CONSTRUCTION.
(APPLIES AT FLOOR PLANS ONLY)

ABBREVIATIONS:
F.C.B. FACE OF CONCRETE BLOCK
F.S. FACE OF STUDS
F.D. FLOOR DRAIN
M.T. METAL THRESHOLD

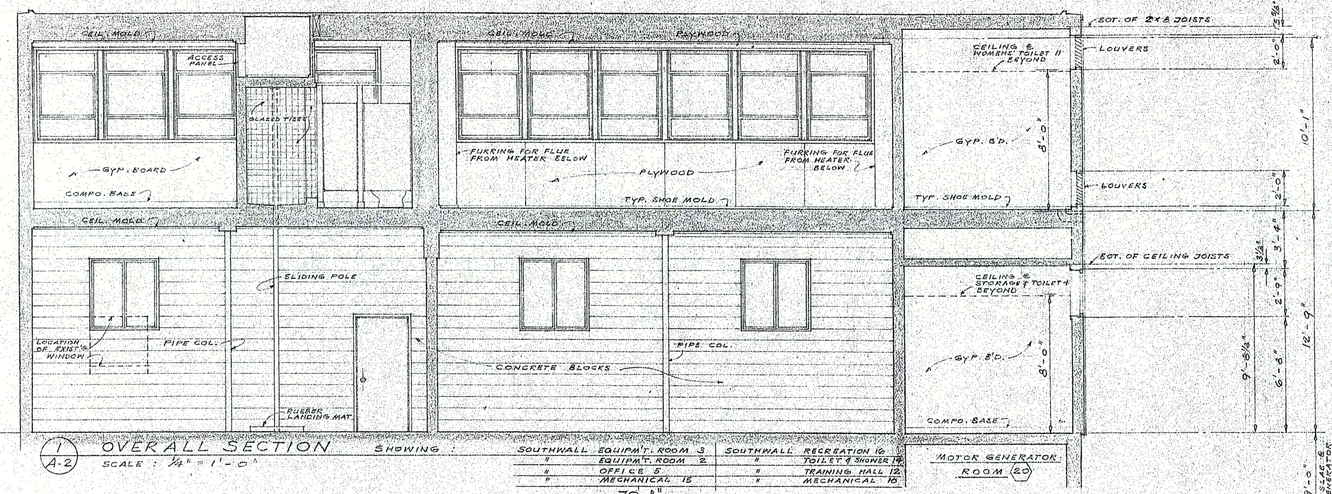


WINDOW SCHEDULE



DRAWN BY H. DISEFENBACH	ADDITIONS TO TAHOE CITY FIREHOUSE	SHEET NO. A-1
CHECKED BY	TAHOE CITY CALIFORNIA	OF A-5
REVISED		DATE MAR. 5, 1961
		JOB NO. 60-123

J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. ALBERT MIHALY
ASSOCIATES
SANTA ROSA, CALIFORNIA



1 A-2 OVERALL SECTION SHOWING: SCALE: 1/4" = 1'-0"

SOUTHWALL EQUIPMT. ROOM 3		SOUTHWALL RECREATION 16	
" EQUIPMT. ROOM 2		" TOILET & SHOWER 14	
" OFFICE 5		" TRAINING HALL 12	
" MECHANICAL 15		" MECHANICAL 10	

MOTOR GENERATOR ROOM 20

PLUMBING FIXTURE SCHEDULE

FIXTURE	SYMBOL	WASTE BRANCH	WASTE OUTLET	VENT	COLD WATER BRANCH	COLD WATER OUTLET	HOT WATER BRANCH	HOT WATER OUTLET
WATER CLOSET (TANK)	W.C.	4"	4"	2"	3/4"	1/2"	–	–
URINAL	U.	3"	3"	2"	1"	3/4"	–	–
LAVATORY	LAV.	2"	1 1/2"	1 1/2"	3/4"	1/2"	3/4"	1/2"
SINK	S.	2"	1 1/2"	1 1/2"	3/4"	1/2"	3/4"	1/2"
DRINKING FOUNTAIN	D.F.	2"	1 1/2"	1 1/2"	3/4"	1/2"	–	–
SHOWER	SH.	2"	2"	1 1/2"	3/4"	1/2"	3/4"	1/2"
HOSE BIBB	H.B.	–	–	–	3/4"	3/4"	–	–
FLOOR DRAIN	F.D.	4"	3"	3"	–	–	–	–

NOTE: BRANCH MAY BE REDUCED TO SIZE OF OUTLET FOR RUNS LESS THAN 10'-0"

LEGEND:

- = SOIL & WASTE PIPE
- = HOT WATER LINE
- = COLD WATER SUPPLY
- V.T.R. = VENT THRU ROOF
- H.W.T. = HOT WATER TANK
- G = GAS LINE

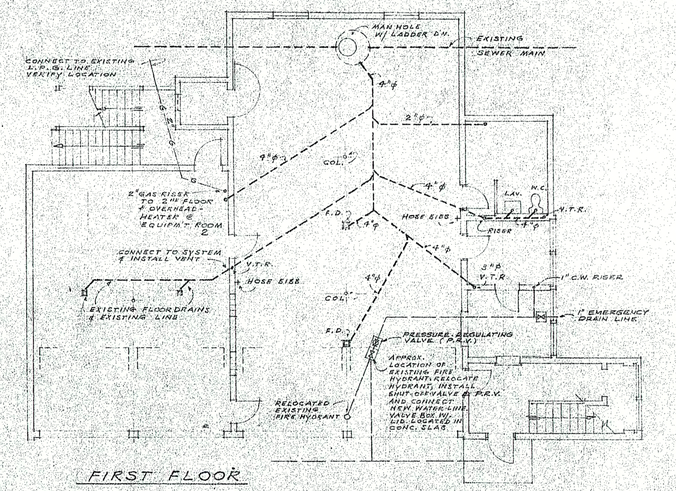
ALL VENTS OVER 2" DIAM. SHALL BE CAST IRON.

NO VENT PIPES SHALL BE PLACED IN EXTERIOR WALLS.

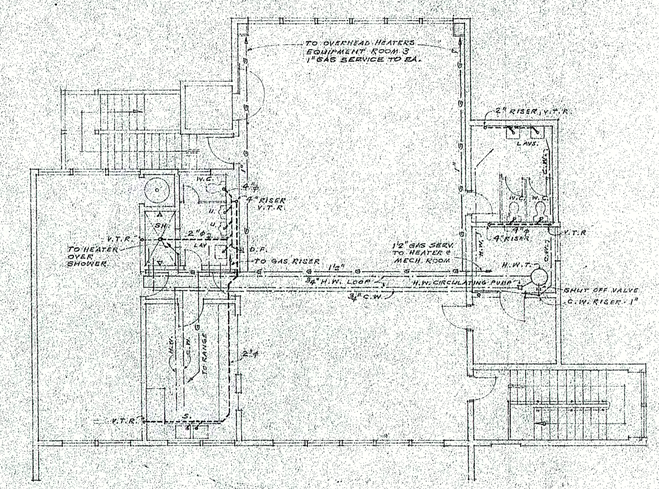
CAP ALL EXISTING SERVICE LINES THAT WILL NOT REMAIN IN USE.

GENERAL PLUMBING NOTES:

1. THIS PLUMBING PLAN IS DIAGRAMMATIC. IT IS NOT INTENDED TO BE A COMPLETE PLAN. ALL WORK, PIPE, FITTINGS, FIXTURES ETC. SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL ADMINISTRATIVE AUTHORITY AND THE 1958 UNIFORM PLUMBING CODE.
2. UPON COMPLETION OF THE WORK THIS CONTRACTOR SHALL PROVIDE A DETAILED DRAWING, SHOWING THE EXACT LOCATION OF ALL PIPING INSTALLED (OR EXISTING) ON THIS JOB. THE DRAWING MUST BE FILED WITH THE ARCHITECT BEFORE FINAL ACCEPTANCE OF THE WORK.
3. ALL SOIL, WASTE & UNDERGROUND STORM DRAIN LINES INSIDE THE BUILDING AND TO A POINT 5'-0" OUTSIDE SHALL BE CAST IRON.

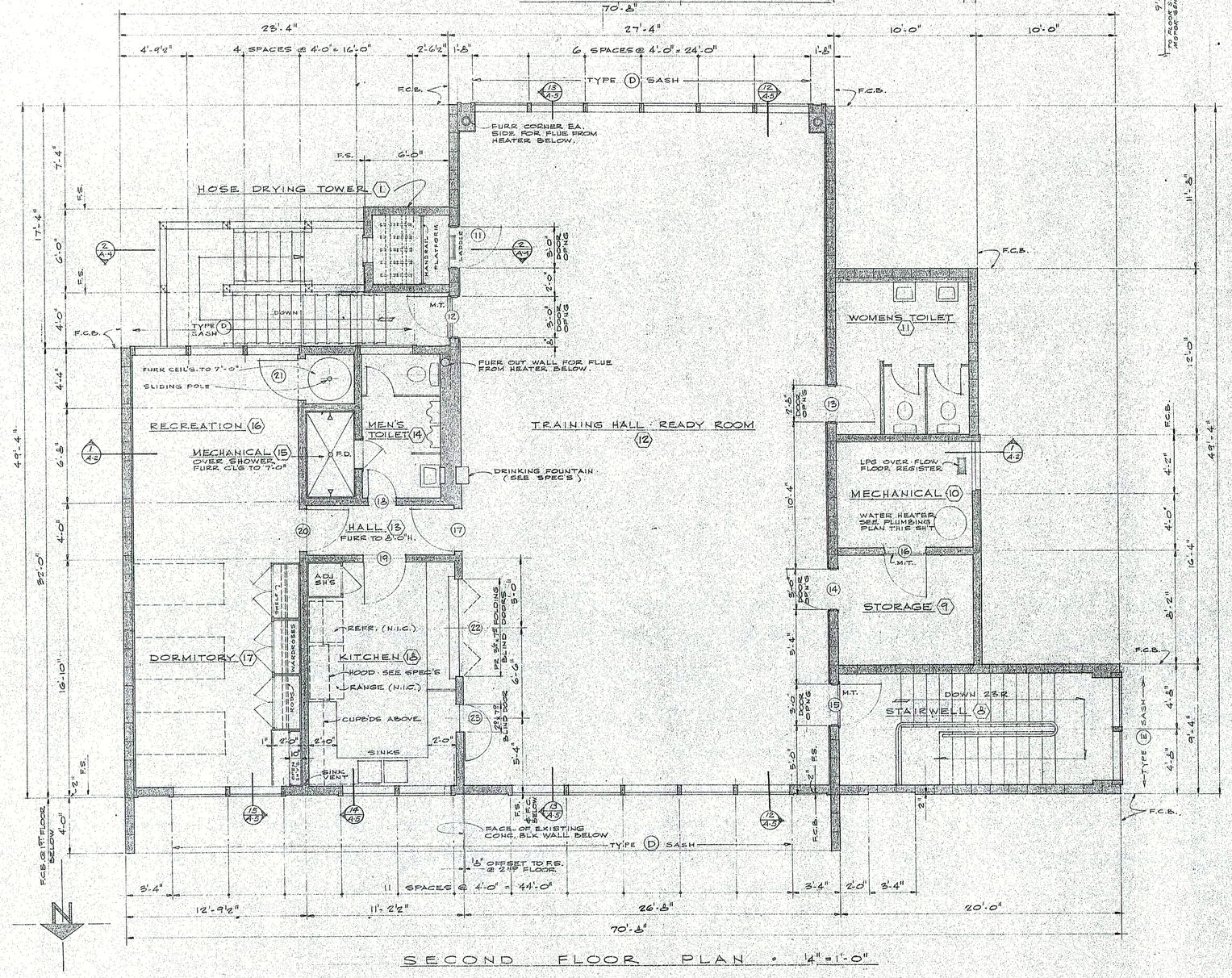


FIRST FLOOR



SECOND FLOOR

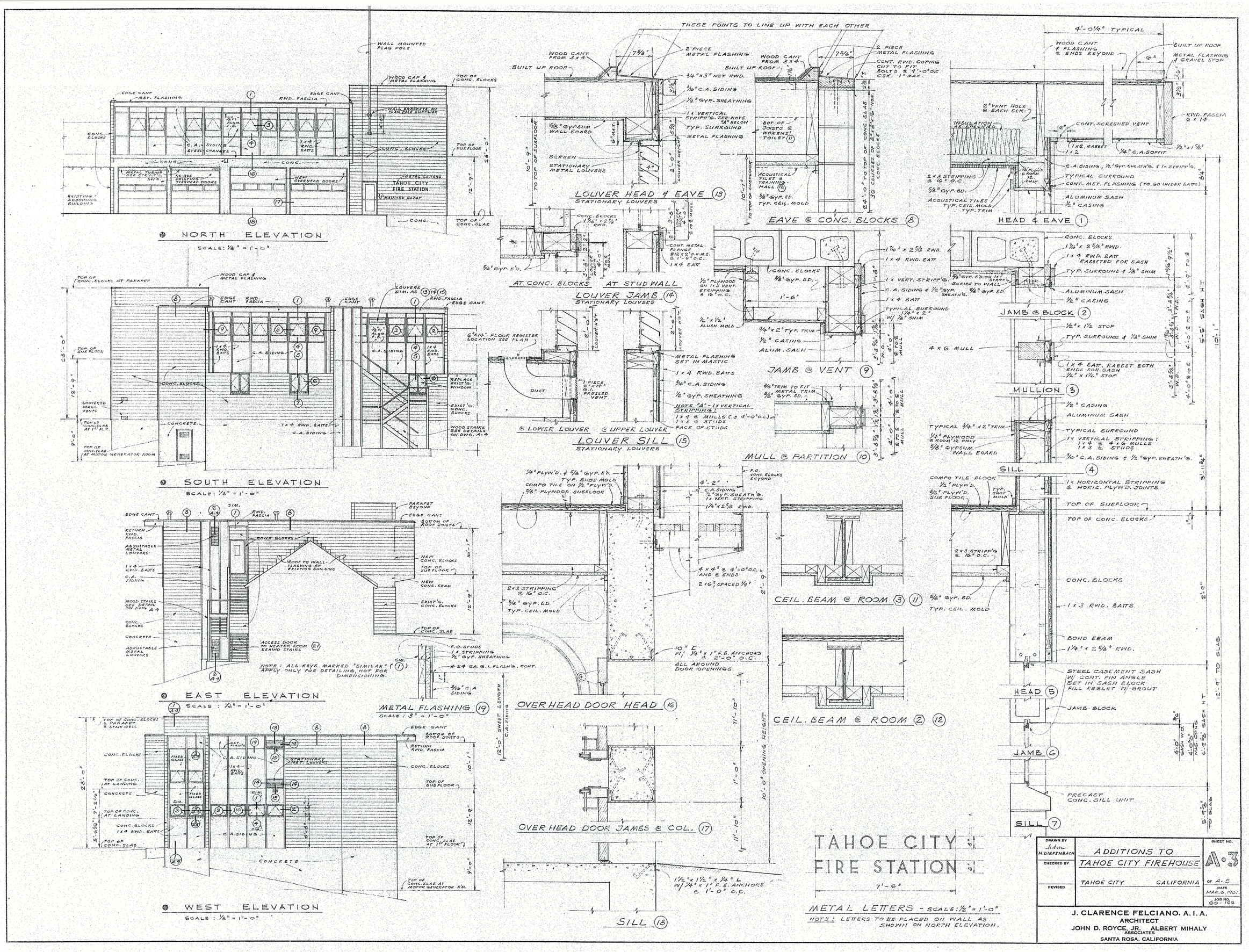
PLUMBING PLAN - SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN • 1/4" = 1'-0"

DRAWN BY H. DIEFENBACH	ADDITIONS TO TAHOE CITY FIREHOUSE	SHEET NO. A-2
CHECKED BY	TAHOE CITY — CALIFORNIA	OF A-5
REVISED		DATE MAR. 6, 1961
		JOB NO. GD-122

J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. ALBERT MIHALY
ASSOCIATES
SANTA ROSA, CALIFORNIA


NORTH ELEVATION
SCALE: 1/8" = 1'-0"
SOUTH ELEVATION
SCALE: 1/8" = 1'-0"
EAST ELEVATION
SCALE: 1/8" = 1'-0"
WEST ELEVATION
SCALE: 1/8" = 1'-0"
TAHOE CITY FIRE STATION
LOUVER HEAD & EAVE (13)
STATIONARY LOUVERS
AT CONC. BLOCKS
AT STUD WALL
LOUVER JAMB (14)
STATIONARY LOUVERS
@ LOWER LOUVER
@ UPPER LOUVER
LOUVER SILL (15)
STATIONARY LOUVERS
METAL FLASHING (19)
SCALE: 3" = 1'-0"
OVER HEAD DOOR HEAD (16)
OVER HEAD DOOR JAMBS & COL. (17)
SILL (18)
EAVE @ CONC. BLOCKS (8)
JAMB @ VENT (9)
MULL @ PARTITION (10)
CEIL. BEAM @ ROOM (3) (11)
CEIL. BEAM @ ROOM (2) (12)
HEAD & EAVE (1)
JAMB @ BLOCK (2)
MULLION (3)
SILL (4)
HEAD (5)
JAMB (6)
SILL (7)
METAL LETTERS - SCALE: 1/2" = 1'-0"
NOTE: LETTERS TO BE PLACED ON WALL AS SHOWN ON NORTH ELEVATION.
DRAWN BY
H. DIEFENBACH
CHECKED BY
REVISED
ADDITIONS TO
TAHOE CITY FIREHOUSE
TAHOE CITY CALIFORNIA
SHEET NO.
A-3
OF A-5
DATE
MAR. 6, 1961
JOB NO.
60-122
J. CLARENCE FELCIANO, A.I.A.
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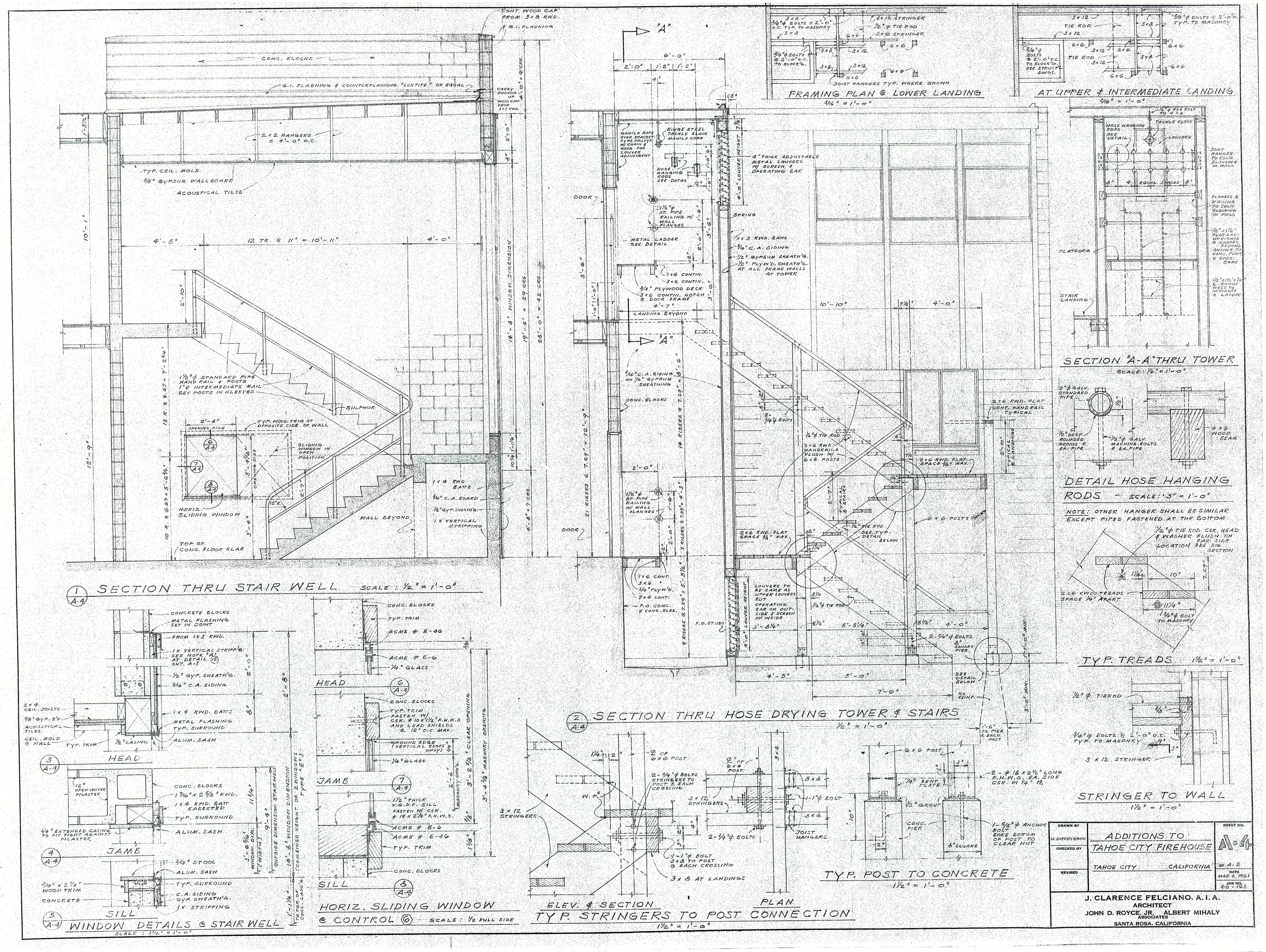
FRAMING PLAN @ LOWER LANDING
3/16" = 1'-0"
AT UPPER & INTERMEDIATE LANDING
SECTION "A-A" THRU TOWER
SCALE: 1/2" = 1'-0"
DETAIL HOSE HANGING RODS - SCALE: 3" = 1'-0"
NOTE: OTHER HANGER SHALL BE SIMILAR EXCEPT PIPES FASTENED AT THE BOTTOM
TYP. TREADS 1 1/2" = 1'-0"
STRINGER TO WALL
1 1/2" = 1'-0"
1 A-4 SECTION THRU STAIR WELL SCALE: 1/2" = 1'-0"
2 A-4 SECTION THRU HOSE DRYING TOWER & STAIRS
1/2" = 1'-0"
TYP. POST TO CONCRETE
1 1/2" = 1'-0"
ELEV. & SECTION
PLAN
TYP. STRINGERS TO POST CONNECTION
1 1/2" = 1'-0"
3 A-4 HEAD
4 A-4 JAMB
5 A-4 SILL
WINDOW DETAILS @ STAIR WELL
SCALE: 1 1/2" = 1'-0"
6 A-4 HEAD
7 A-4 JAMB
8 A-4 SILL
HORIZ. SLIDING WINDOW @ CONTROL 6 SCALE: 1/2 FULL SIZE
DRAWN BY
H. DIEFENBACH
CHECKED BY
REVISED
ADDITIONS TO
TAHOE CITY FIREHOUSE
TAHOE CITY CALIFORNIA
SHEET NO.
A-4
OF A-5
DATE
MAR. 9, 1961
JOB NO.
60-122
J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. ALBERT MIHALY
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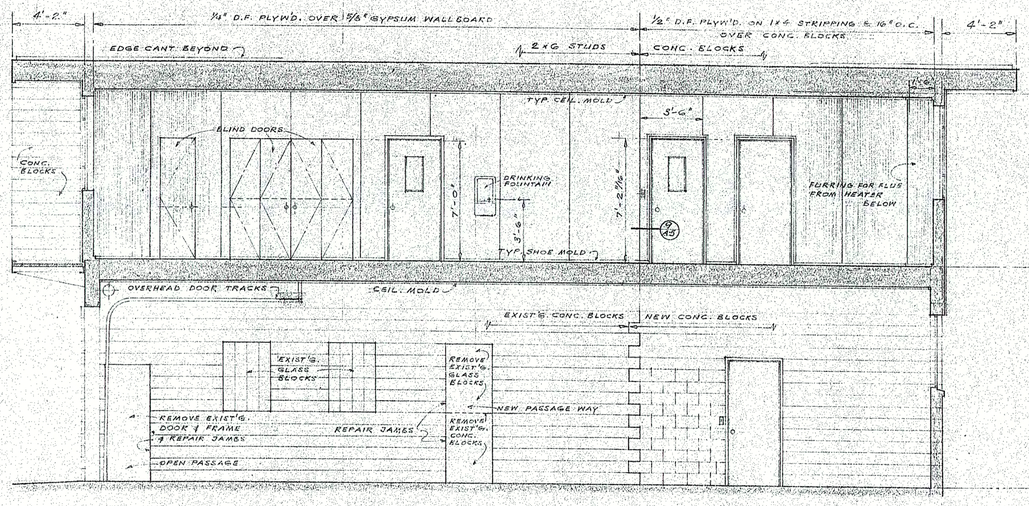
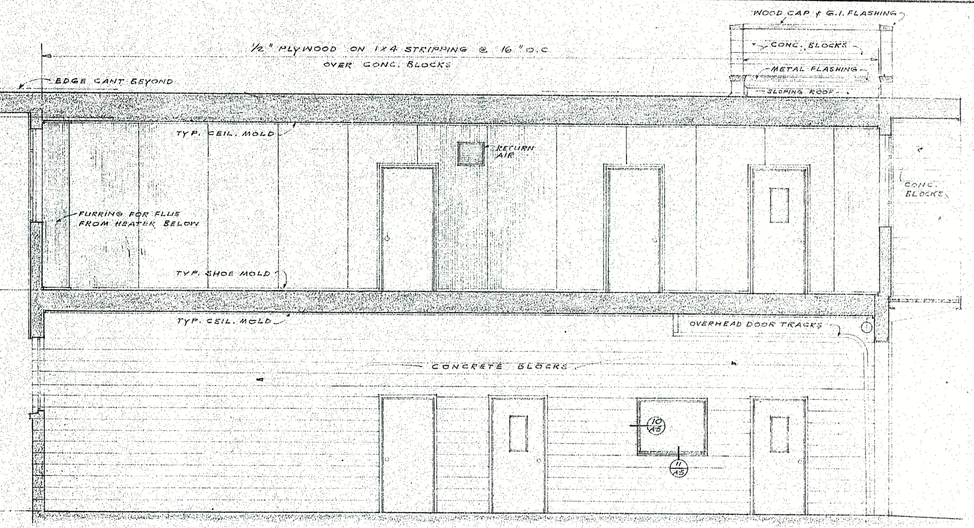
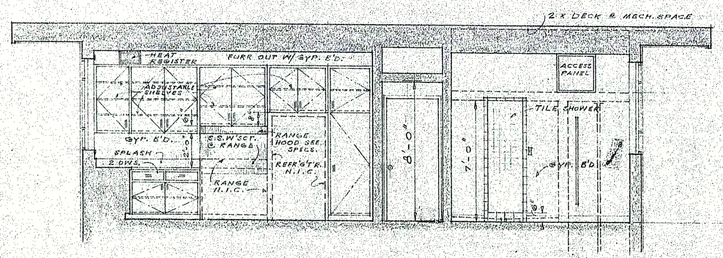
SANTA ROSA, CALIFORNIA



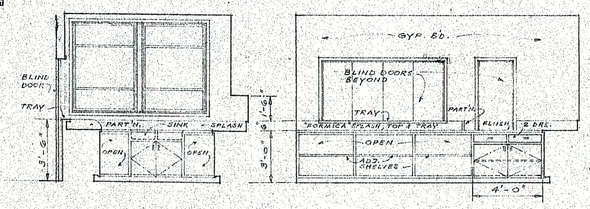
13 A-5 OVER ALL SECTION SHOWING: EASTWALL OF TRAINING HALL 12
EASTWALL OF EQUIPMENT ROOM 2
SCALE: 1/4" = 1'-0"



12 A-5 OVER ALL SECTION SHOWING WEST WALL OF TRAINING HALL 12
WEST WALL OF EQUIPMENT ROOM 2
SCALE: 1/4" = 1'-0"

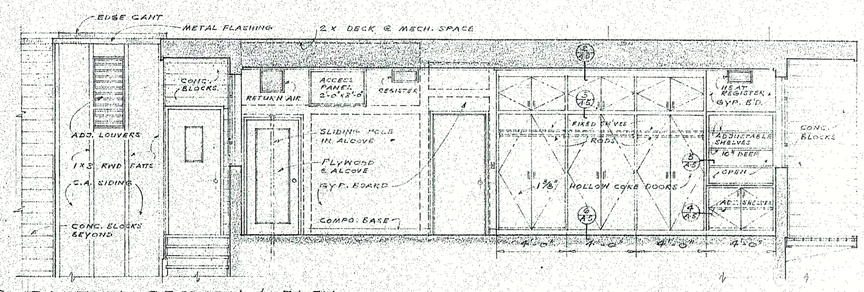


14 A-5 PARTIAL SECTION SHOWING: EAST WALL OF KITCHEN 18
EAST WALL OF MENS' TOILET 14
SCALE: 1/4" = 1'-0"

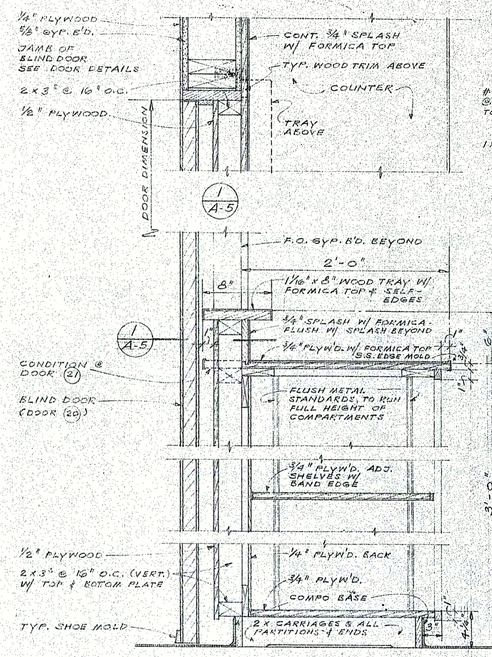


NORTH WALL KITCHEN 18
SCALE: 1/4" = 1'-0"

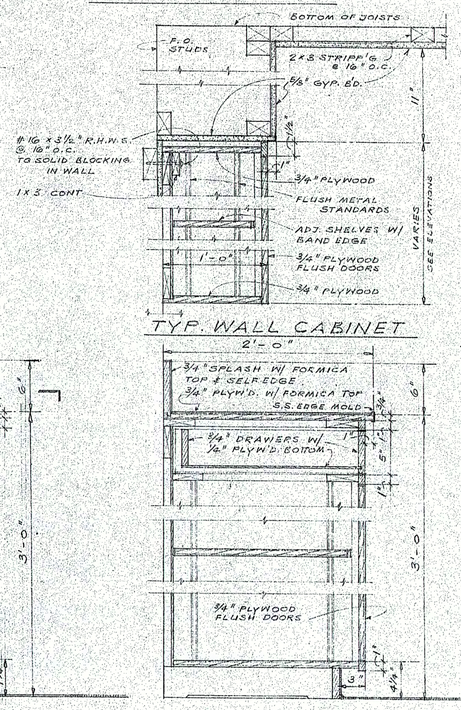
WEST WALL KITCHEN 18
SCALE: 1/4" = 1'-0"



15 A-5 PARTIAL SECTION & ELEV. SHOWING WEST WALL OF DORMITORY 17 & RECREATION 19
SCALE: 1/4" = 1'-0"

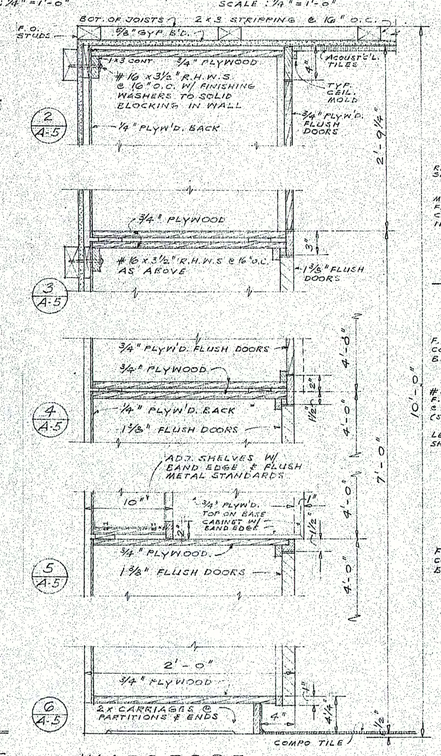


KITCHEN BASE CABINET @ DOOR (20)
SCALE: 1 1/2" = 1'-0"

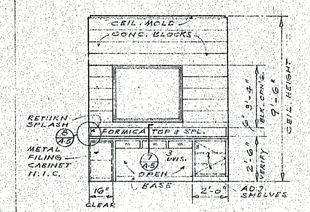


TYP. WALL CABINET
2'-0"

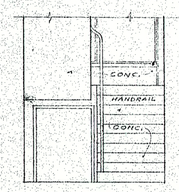
TYPICAL BASE CABINET W/ DRAWER & FLUSH DOOR - SCALE: 1 1/2" = 1'-0"



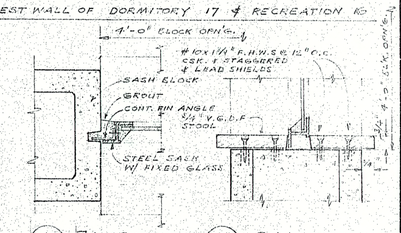
WARDROBE
SCALE: 1 1/2" = 1'-0"



EAST WALL @ CONTROL 6
SCALE: 1/4" = 1'-0"



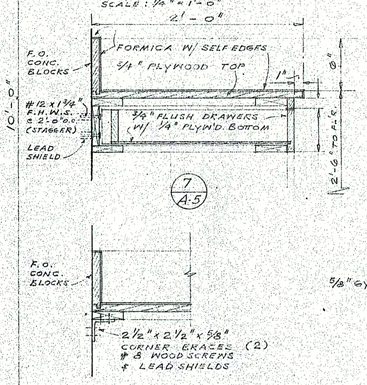
WEST WALL STAIRWELL 8
SCALE: 1/4" = 1'-0"



10 A-5 JAMB
HEAD SIM.

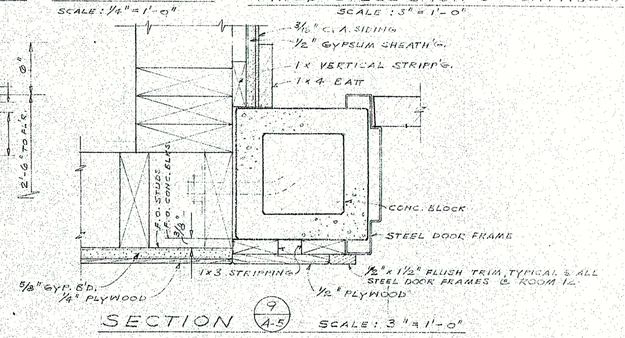
11 A-5 SILL

FIXED STEEL SASH @ CONTROL 6
SCALE: 3" = 1'-0"



7 A-5

8 A-5
SCALE: 1 1/2" = 1'-0"



SECTION 9 A-5 SCALE: 3" = 1'-0"

DRAWN BY: H. DIEFENBACH	ADDITIONS TO TAHOE CITY FIREHOUSE	SHEET NO. A-5
CHECKED BY	TAHOE CITY CALIFORNIA	OF A-5
REVISED		DATE MARCH, 1951
		JOB NO. 60-132

J. CLARENCE FELCIANO, A.I.A.
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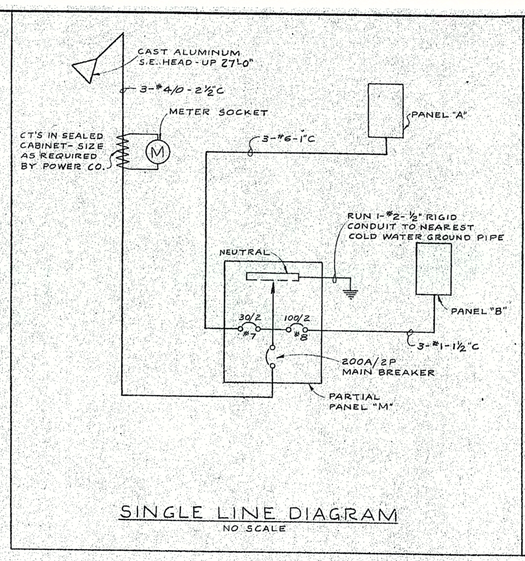
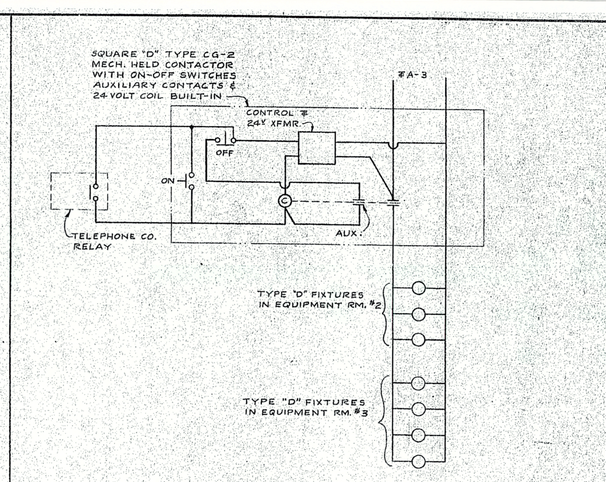


SINGLE LINE DIAGRAM
NO SCALE



EQUIPMENT ROOM Nº 1 & Nº 2
AUTOMATIC LIGHT CONTROL
NO SCALE

SYMBOLS

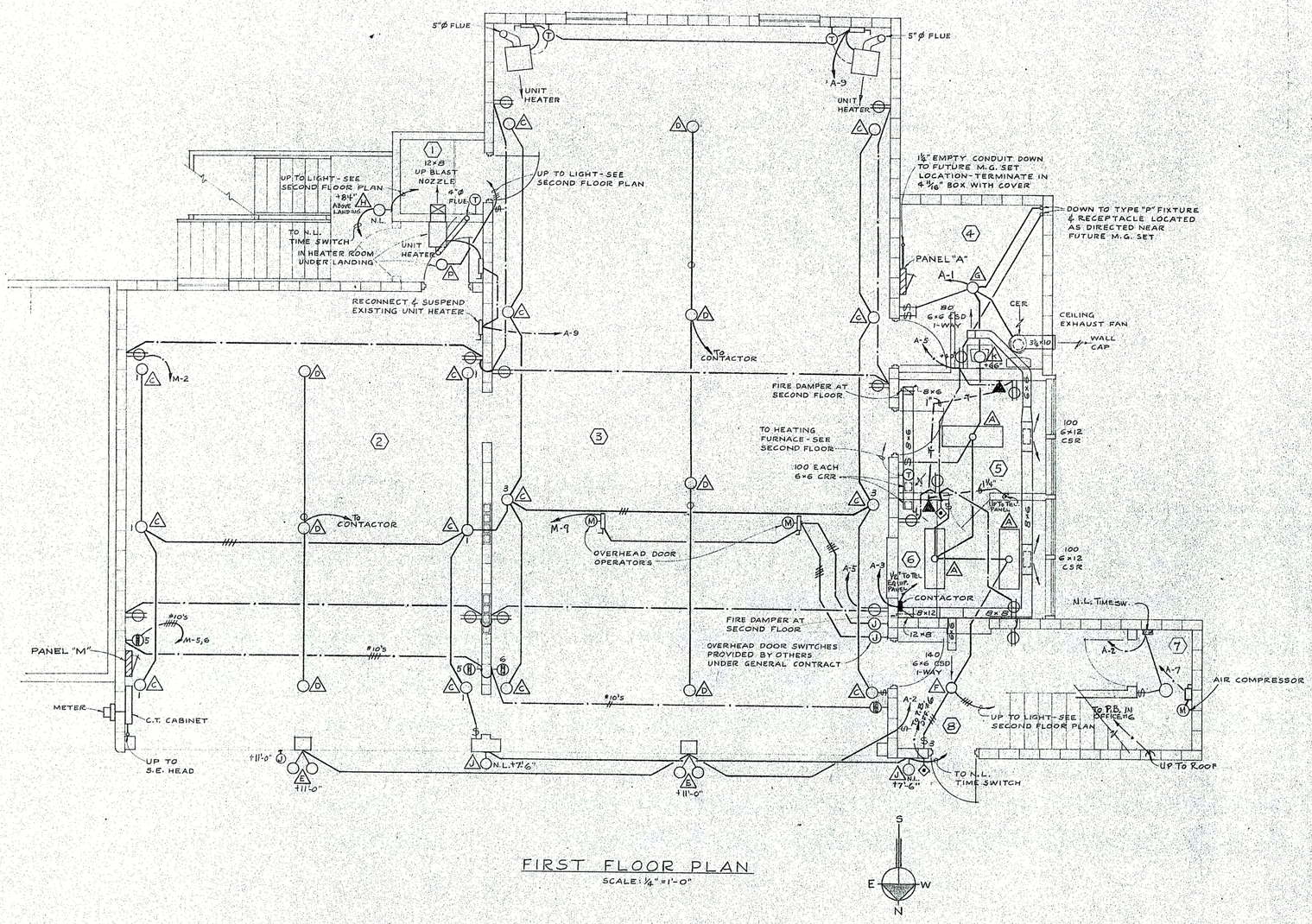
SYMBOL	DESCRIPTION
	FLUORESCENT LIGHT FIXTURE - CEILING SURFACE MOUNTED.
	INCANDESCENT LIGHT FIXTURE - CEILING SURFACE OR PENDANT MOUNTED.
	INCANDESCENT LIGHT FIXTURE - WALL BRACKET MOUNTED.
	INCANDESCENT LIGHT FIXTURE - RECESS MOUNTED WITH REMOT CONCEALED AND ACCESSIBLE JUNCTION BOX.
	LIGHT FIXTURE IDENTIFICATION TAG - SEE SCHEDULE.
	DISCONNECT SWITCH - FURNISHED, INSTALLED & WIRED BY ELECTRICAL CONTRACTOR.
	DUPLEX WALL RECEPTACLE - CENTERLINE UP 15" UNLESS OTHERWISE NOTED.
	30A/2P POLARIZED RECEPTACLE - CENTERLINE UP 15" UNLESS OTHERWISE NOTED.
	JUNCTION BOX - 4" SQUARE WITH BLANK COVER.
	TELEPHONE OUTLET - UP 15".
	PUSHBUTTON - UP 54" - AUTH #120 OR EQUAL.
M	MOTOR OUTLET - AS NOTED.
T	THERMOSTAT OUTLET - UP 60".
	HOMERUN TO PANELBOARD - CROSS LINES INDICATE QUANTITY OF #12 WIRES.
	CONDUIT IN CEILING STRIPPING SPACE - ABOVE CEILING OR IN WALL.
	CONDUIT IN OR BELOW FLOOR.
T	OUTSIDE TELEPHONE SYSTEM EMPTY CONDUIT - ¾" UNLESS OTHERWISE NOTED.
$	SINGLE POLE SWITCH - UP 54".
$3	THREE WAY SWITCH - UP 54".
N.L.	NIGHT LIGHT.
FC	FLEXIBLE CONNECTION.
CSR	CEILING SUPPLY REGISTER.
CRR	CEILING RETURN REGISTER.
CSD	CEILING SUPPLY DIFFUSER.
WSR	WALL SUPPLY REGISTER.
WRR	WALL RETURN REGISTER.
VD	VOLUME DAMPER.
	SUPPLY AIR.
	RETURN OR EXHAUST AIR.
	SUPPLY DUCT - SECTION.
	RETURN DUCT - SECTION.

PANELBOARD SCHEDULE

PANEL	TYPE	BREAKERS	CIRCUIT NUMBERS
"A" 120/230V 1Ø, 3W SN SURFACE MOUNTED	WESTINGHOUSE NLAB-3	20A, 1P 15A, 2P	A-1,2,3,4,5,6,7,9 A-8
"B" 120/230V 1Ø, 3W SN FLUSH MOUNTED	WESTINGHOUSE NLAB-3	20A, 1P 50A, 2P	B-1,2,3,4,5,6,7,8,9,11 B-13
"M" 120/230V 1Ø, 3W SN SURFACE MOUNTED	WESTINGHOUSE NLAB-3 200A, 2P MAIN BREAKER & BUSSING	20A, 1P 15A, 2P 30A, 2P 100A, 2P	M-1,2,3,4 M-9 M-5,6,7 M-8

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP TYPE
A	CURTIS-ALLBRITE #1944BRS-K5 WITH ETL, UL, CBM BALLASTS	4-F40CW
B	CURTIS-ALLBRITE #8540BRS-P-TR-K5	8-F40CW
C	BENJAMIN #7526 ANGLE REFLECTOR UNIT	1-200/IF
D	BENJAMIN #7643 RLM REFLECTOR UNIT	1-200/IF
E	STONCO #4600-ESF FLOODLIGHT	1-200 PAR 46/3MFL
F	LITECRAFT #E591	2-60A
G	LITECRAFT #E593	3-60A
H	PRESCOLITE #WB-24 WITH WG-6 GUARD	1-100A
I	PRESCOLITE #WB-24 WITH RED GLASS GLOBE & WG-6 GUARD	1-100A
J	PRESCOLITE #WB-2-2	2-100A
L	PRESCOLITE #CF-2B	1-150A
M	PRESCOLITE #1010-6014	1-150A
O	BRYANT #5228 PORCELAIN LAMPHOLDER	1-150A
P	BRYANT #5287 PULL SWITCH PORCELAIN LAMPHOLDER	1-150A



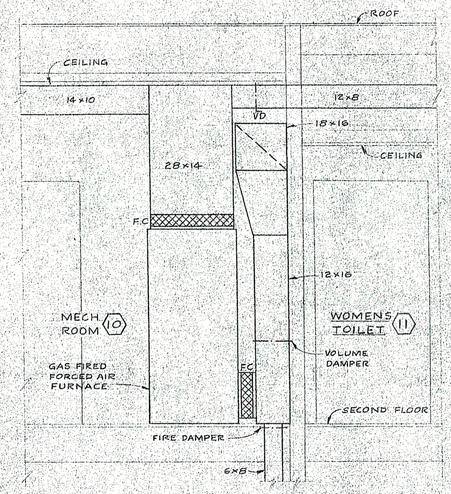
FIRST FLOOR PLAN
SCALE: ¼" = 1'-0"

MECHANICAL ENGINEER
GEORGE K. BROKAW
REGISTERED M. E. NO. 1088

ELECTRICAL ENGINEER
GEORGE K. BROKAW
REGISTERED E. E. NO. 726

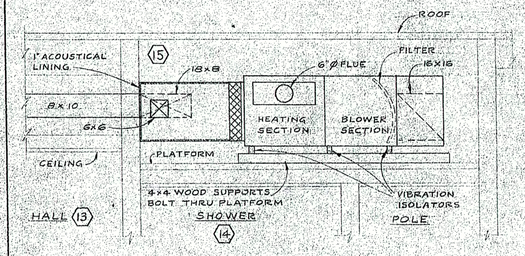
DRAWN BY	ADDITIONS TO TAHOE CITY FIRE HOUSE	SHEET NO. ME 1
CHECKED BY	TAHOE CITY CALIFORNIA	OF M-E-2
REVISED		DATE MAR. 6, 1961
		JOB NO. 63-122

J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. ALBERT MIHALY
ASSOCIATES
SANTA ROSA, CALIFORNIA



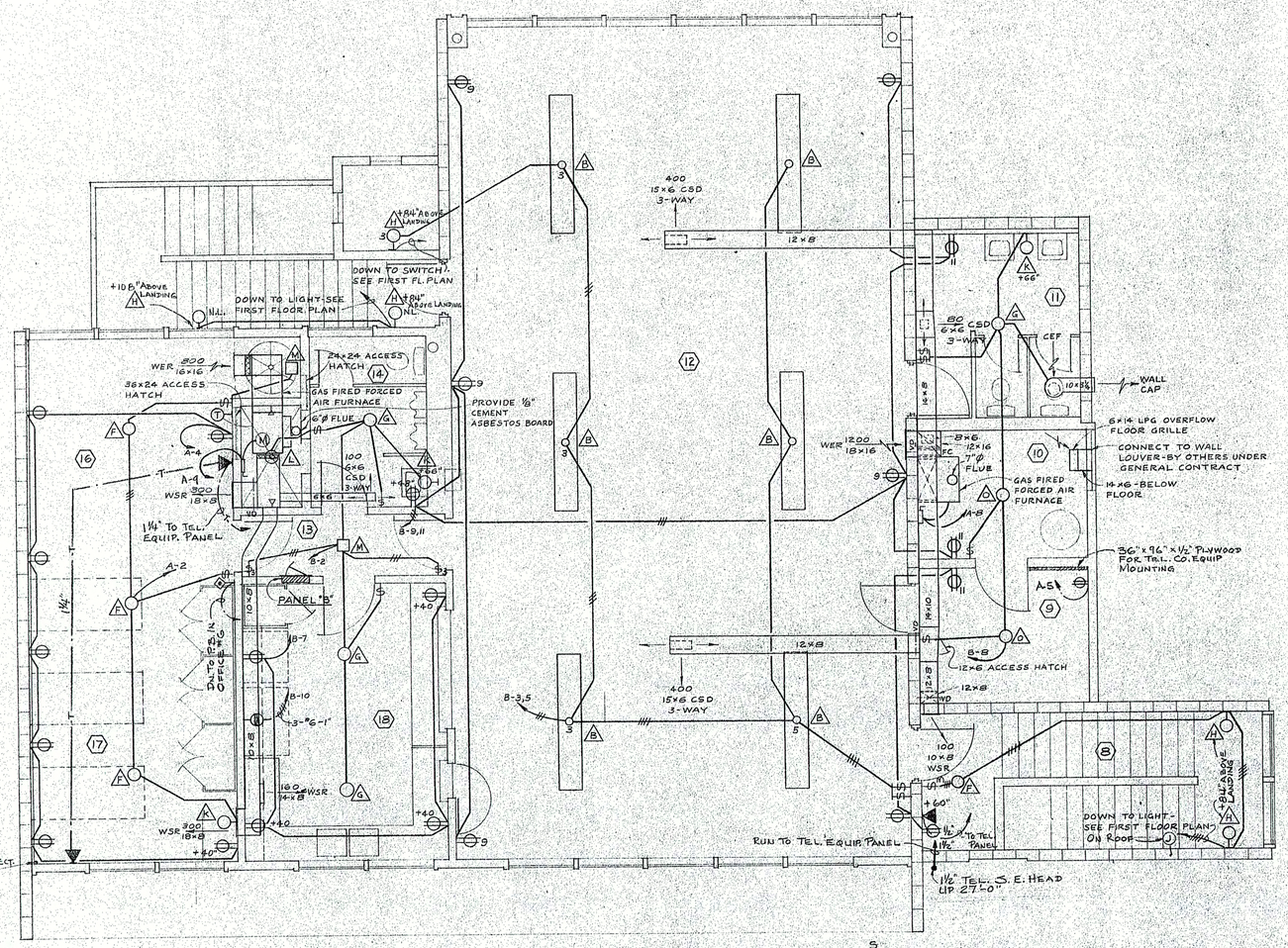
UPRIGHT HEATING FURNACE

SCALE: ½"=1'-0"



HORIZONTAL HEATING FURNACE

SCALE: ½"=1'-0"



SECOND FLOOR PLAN

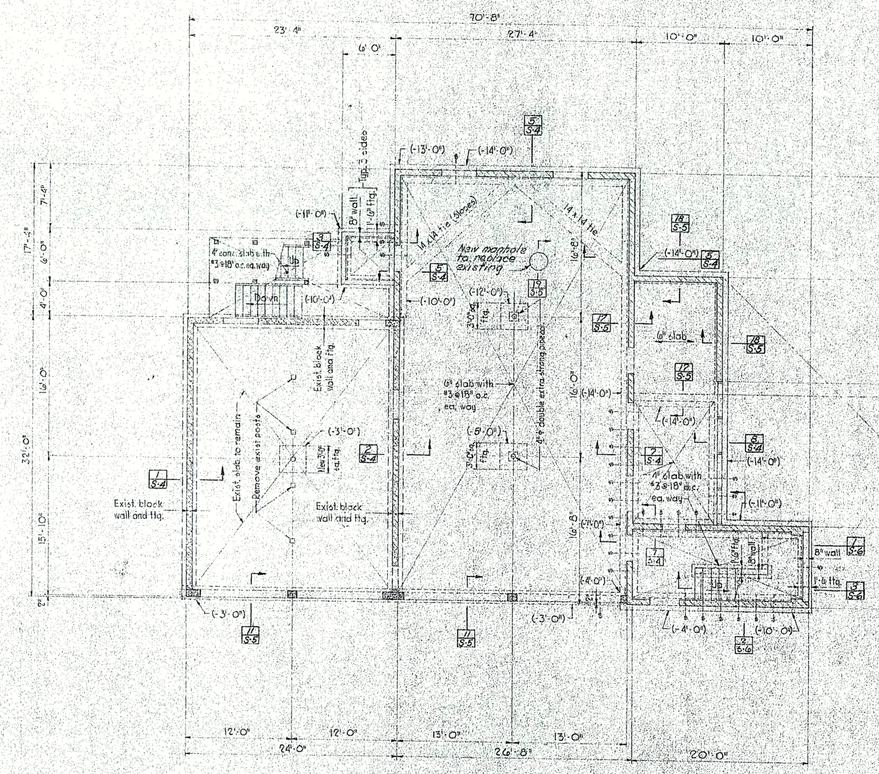
SCALE: ¼"=1'-0"

MECHANICAL ENGINEER
GEORGE K. BROKAW
REGISTERED M. E. NO. 1088

ELECTRICAL ENGINEER
GEORGE K. BROKAW
REGISTERED E. E. NO. 748

DRAWN BY	ADDITIONS TO TAHOE CITY FIREHOUSE	SHEET NO. M 1 of 2
CHECKED BY	TAHOE CITY CALIFORNIA	of M-E 2
REVISED		DATE MAR. 6, 1961
		JOB NO. 60-122

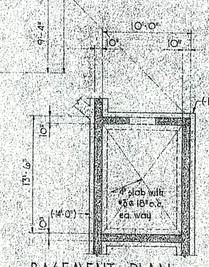
J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. ALBERT MIHALY
ASSOCIATES
SANTA ROSA, CALIFORNIA



FIRST FLOOR AND FOUNDATION PLAN 1 S-1

Scale 1/8" = 1'-0"

NOTES 1.– Top of existing floor slab equals assumed datum 0'-0".
2.– All new footings are 2'-0" wide and all concrete walls are 10" thick unless otherwise noted on plan.
3.– ⊸ = steps in bottom of footings.

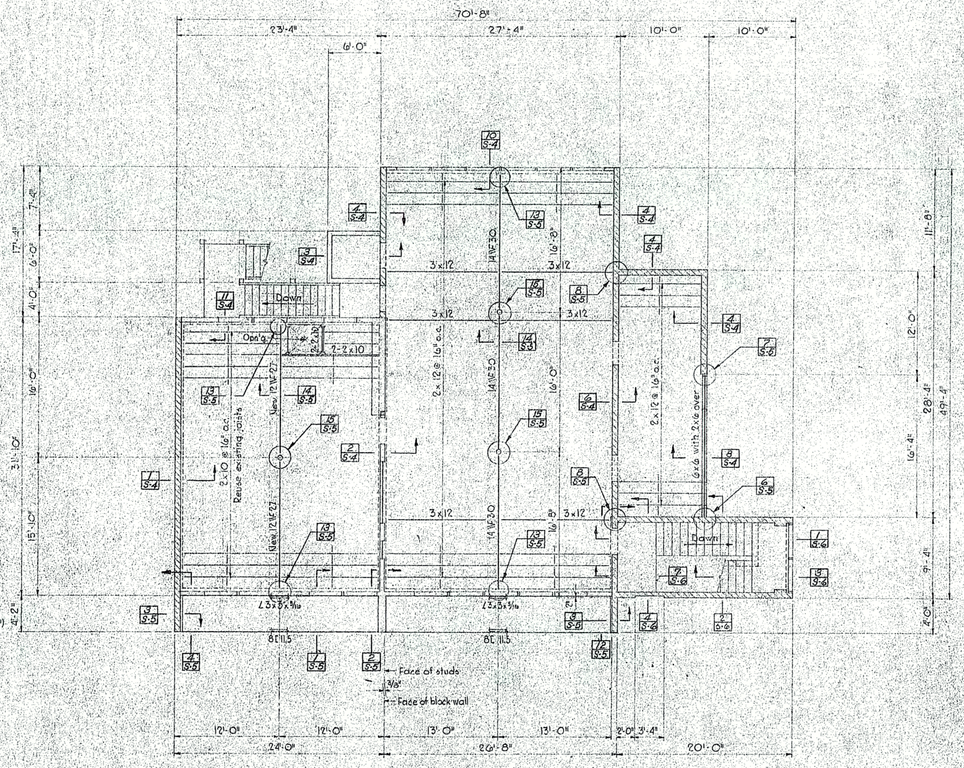


BASEMENT PLAN 1-A S-1

Scale 1/8" = 1'-0"
Finish floor Elev. - 9'-0"

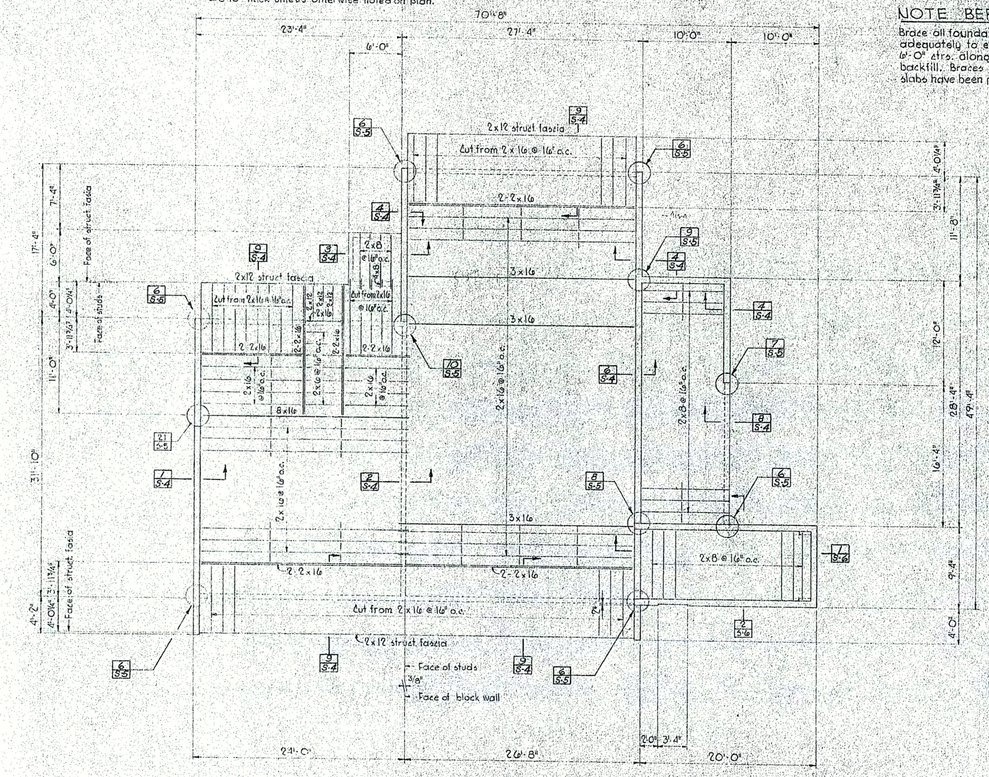
NOTE BEFORE BACKFILLING

Brace all foundation walls completely and adequately to exterior ground at not more than 6'-0" ctrs. along ea. wall before placing interior backfill. Braces shall remain in place until floor slabs have been poured and cured at least 14 days.



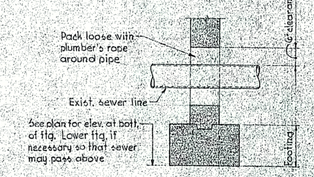
SECOND FLOOR FRAMING PLAN 2 S-1

Scale 1/8" = 1'-0"



ROOF FRAMING PLAN 3 S-1

Scale 1/8" = 1'-0"



PENETRATION OF EXISTING SEWER THRU FOUNDATION WALLS 4 S-1

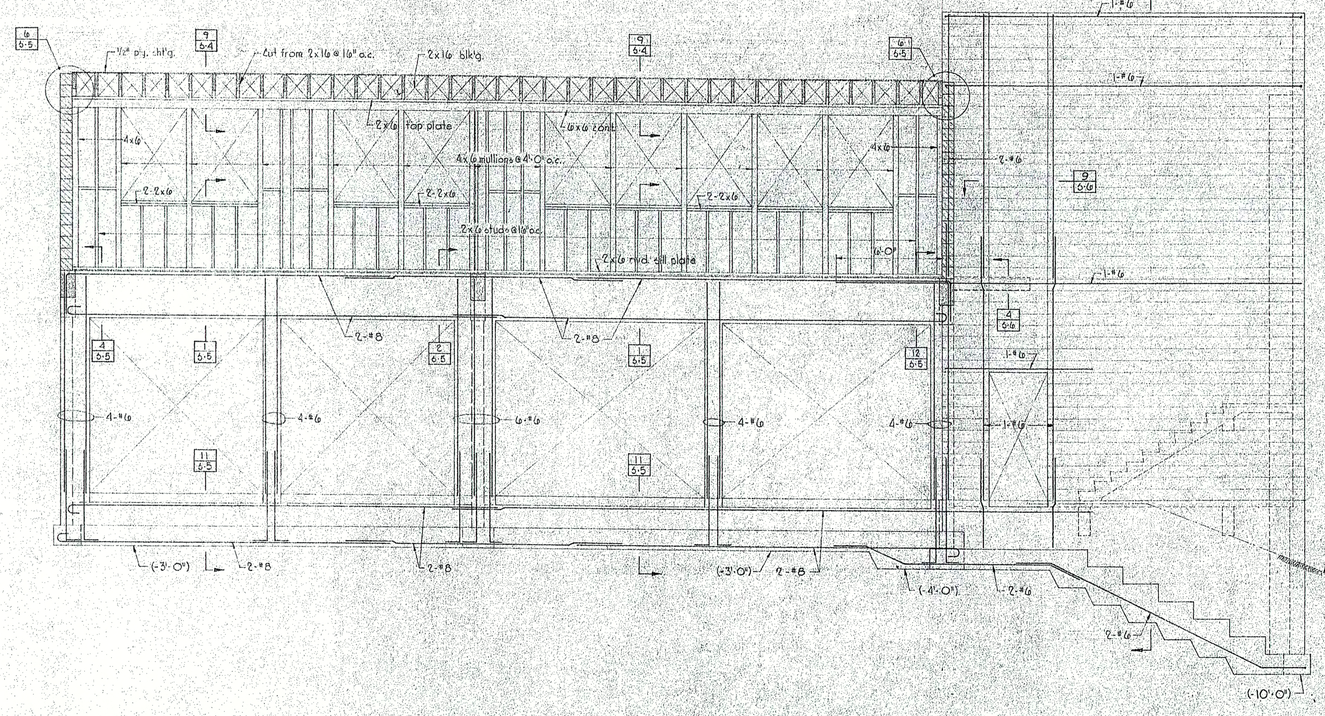
Scale: None

SMITH AND MOOREHEAD
STRUCTURAL ENGINEERS
709 MISSION STREET
SAN FRANCISCO

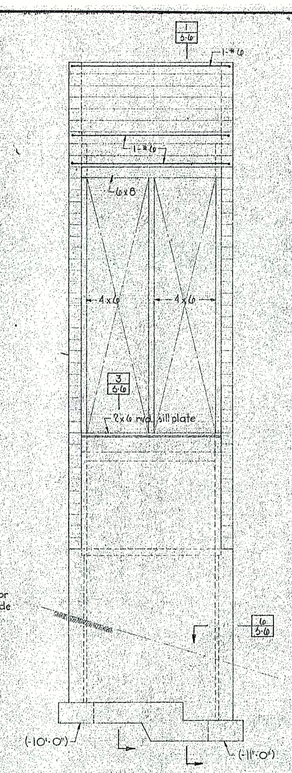
FOUNDATION, FLOOR AND ROOF PLANS

DRAWN BY	ADDITIONS TO TAHOE CITY FIREHOUSE	SHEET NO.
K.W. - LeROY		S-1
CHECKED BY		OF
REVISED	TAHOE CITY CALIFORNIA	DATE MARCH 6, 1961
		JOB NO. 60-122

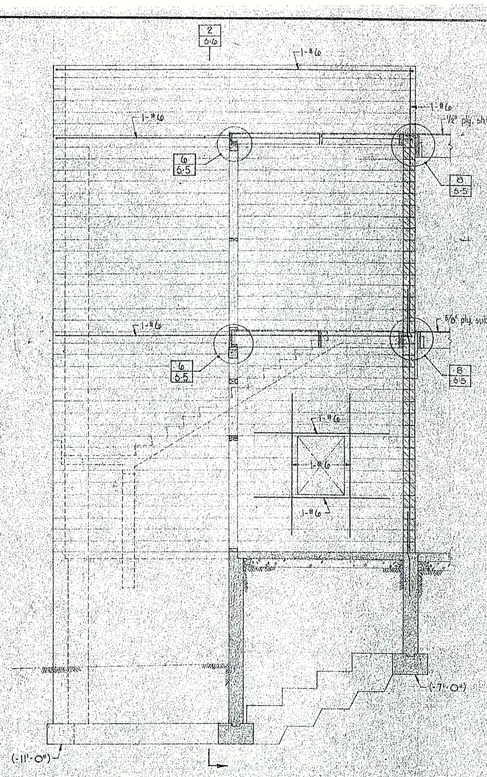
J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. ALBERT MIHALY
ASSOCIATES
SANTA ROSA, CALIFORNIA



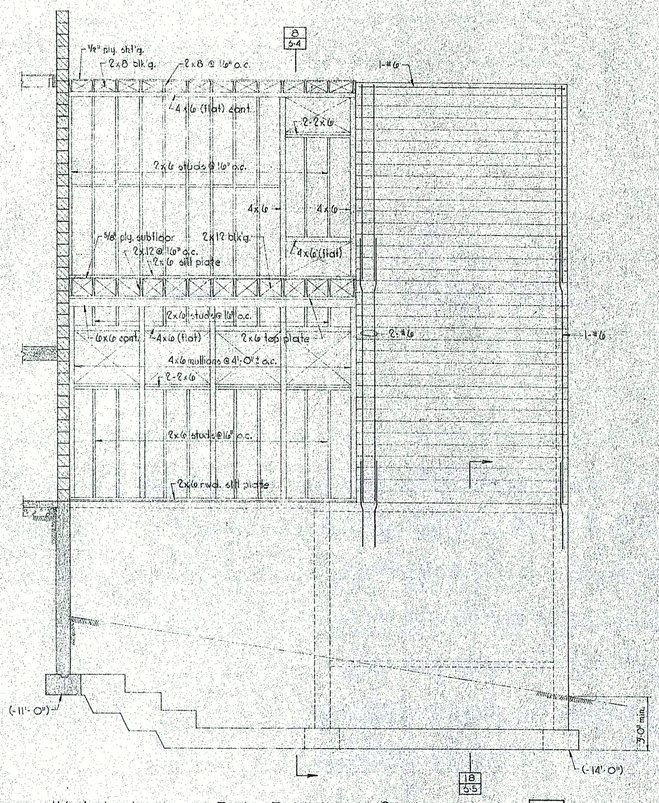
WALL ELEVATION 1 / 5-2
Scale 1/4" = 1'-0"



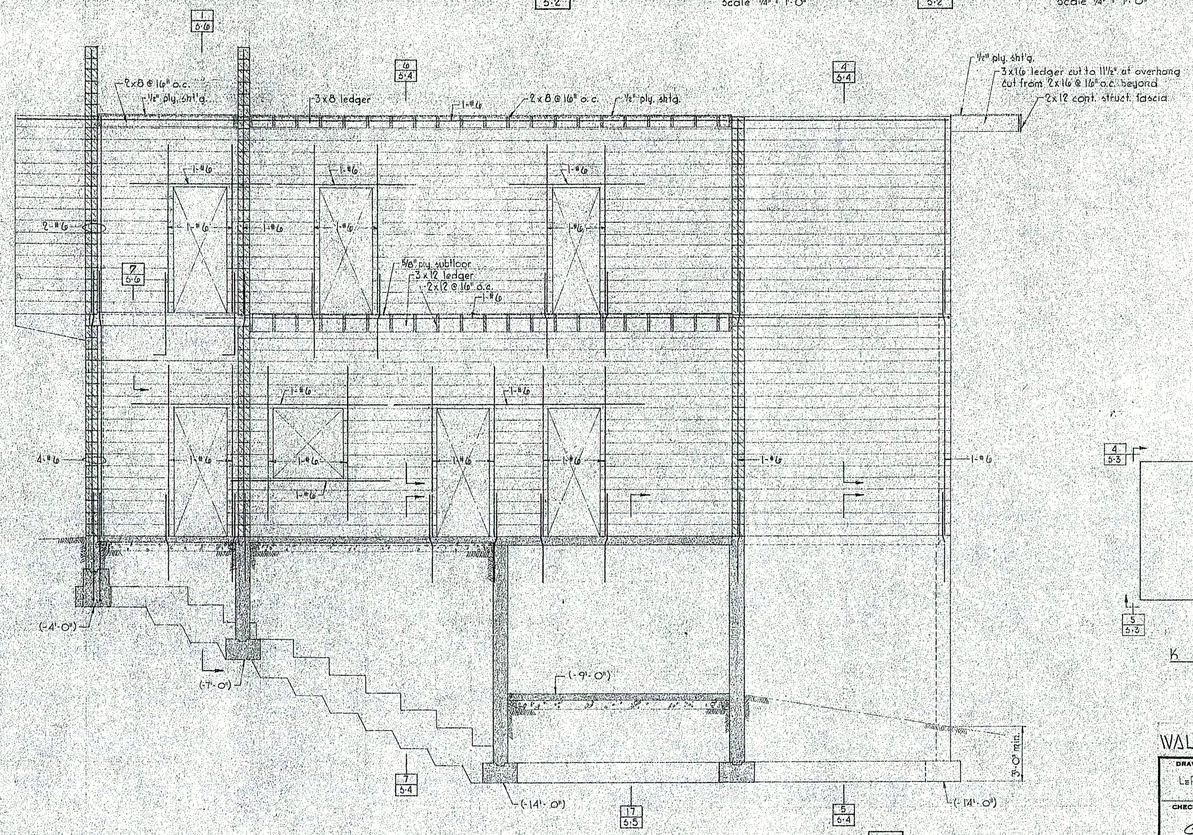
WALL ELEVATION 2 / 5-2
Scale 1/4" = 1'-0"



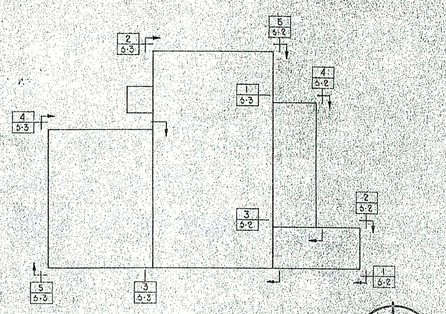
WALL ELEVATION 3 / 5-2
Scale 1/4" = 1'-0"



WALL ELEVATION 4 / 5-2
Scale 1/4" = 1'-0"



WALL ELEVATION 5 / 5-2
Scale 1/4" = 1'-0"



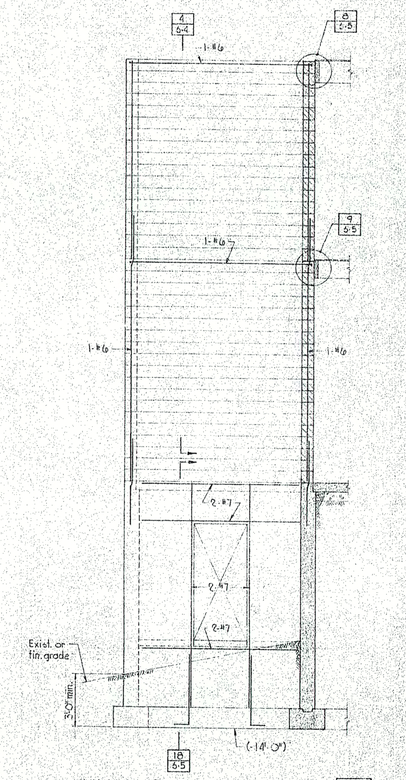
KEY PLAN

SMITH AND MOOREHEAD
STRUCTURAL ENGINEERS
700 MISSION STREET
SAN FRANCISCO

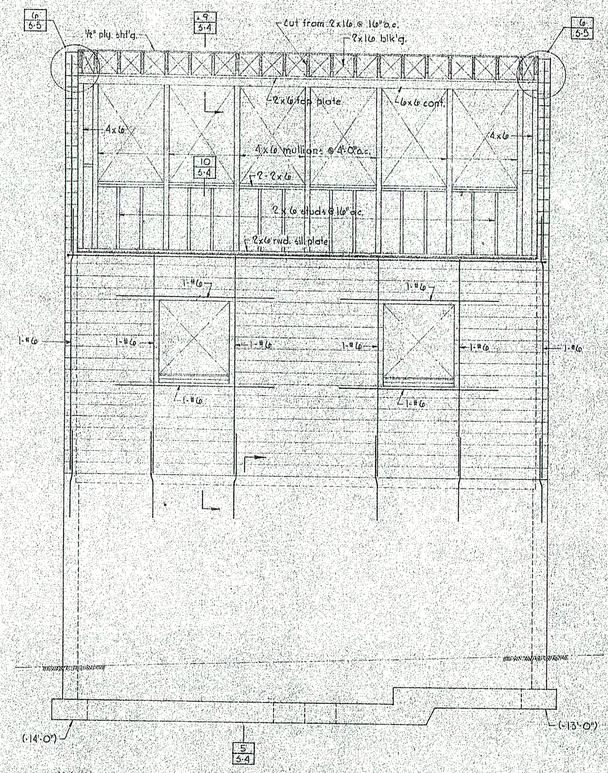
WALL ELEVATIONS

DRAWN BY LeROY	ADDITIONS TO TAHOE CITY FIREHOUSE	SHEET NO. S-2
CHECKED BY G	TAHOE CITY CALIFORNIA	OF
REVISED		DATE MARCH 6, 1961
		JOB NO. 60-122

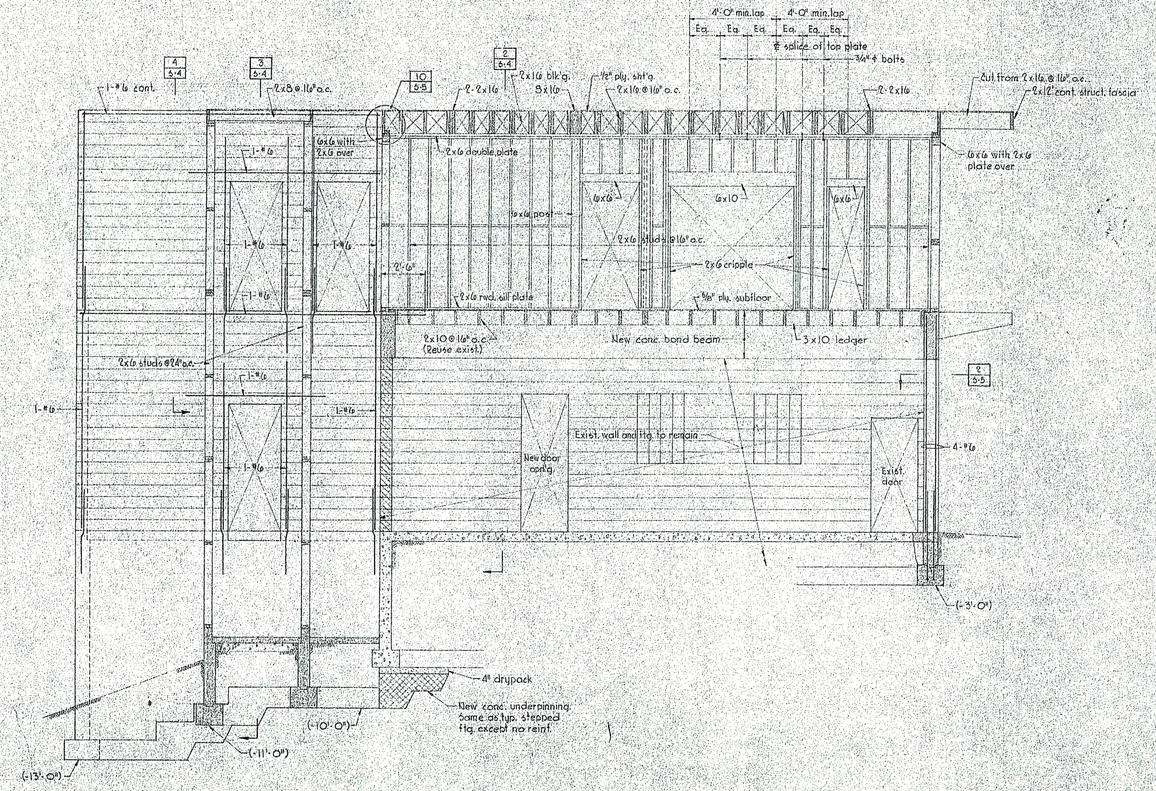
J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. ALBERT MIHALY
ASSOCIATES
SANTA ROSA, CALIFORNIA



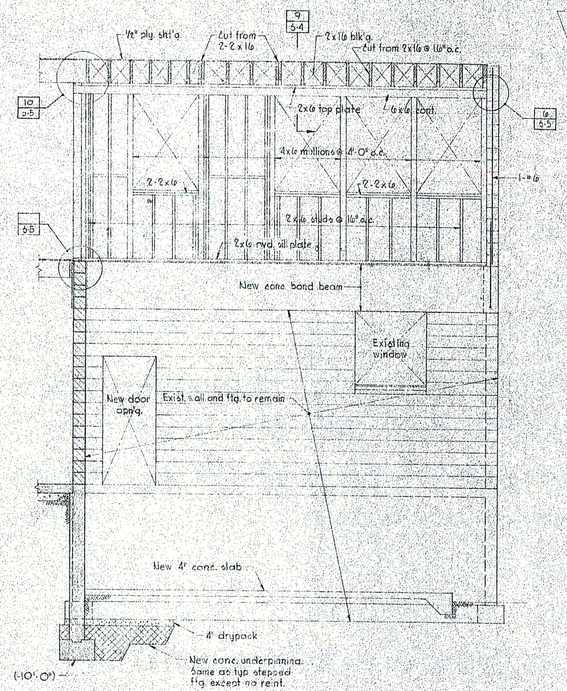
WALL ELEVATION 1 S-3
Scale 1/4" = 1'-0"



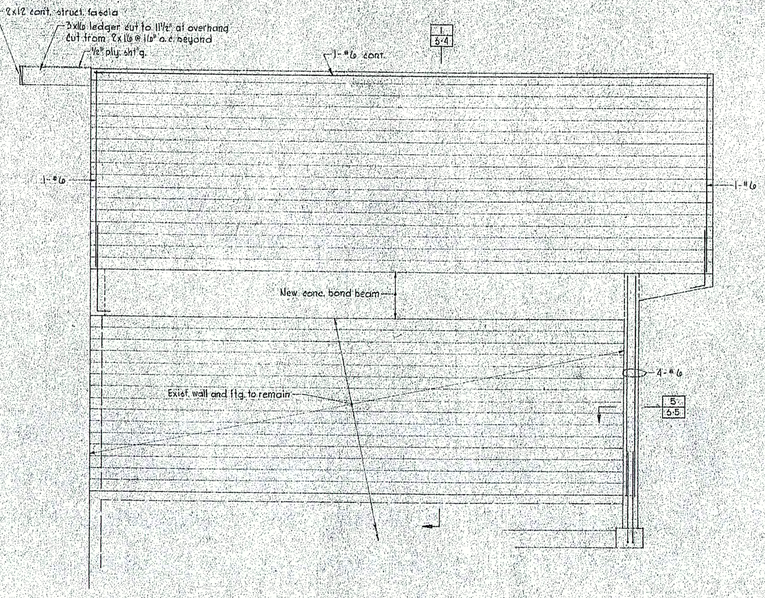
WALL ELEVATION 2 S-3
Scale 1/4" = 1'-0"



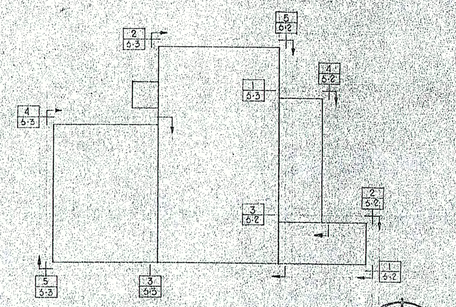
WALL ELEVATION 3 S-3
Scale 1/4" = 1'-0"



WALL ELEVATION 4 S-3
Scale 1/4" = 1'-0"



WALL ELEVATION 5 S-3
Scale 1/4" = 1'-0"



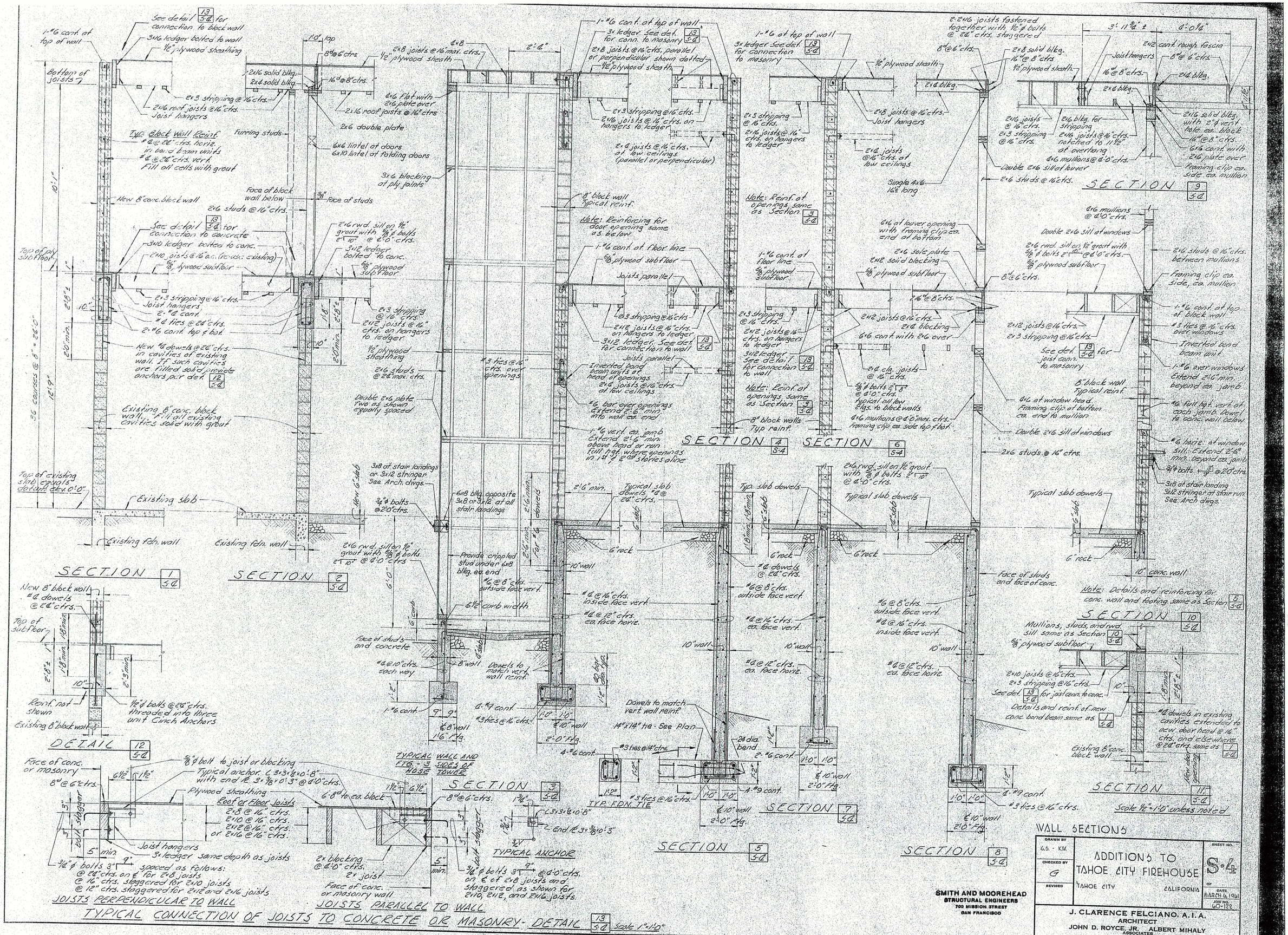
KEY PLAN

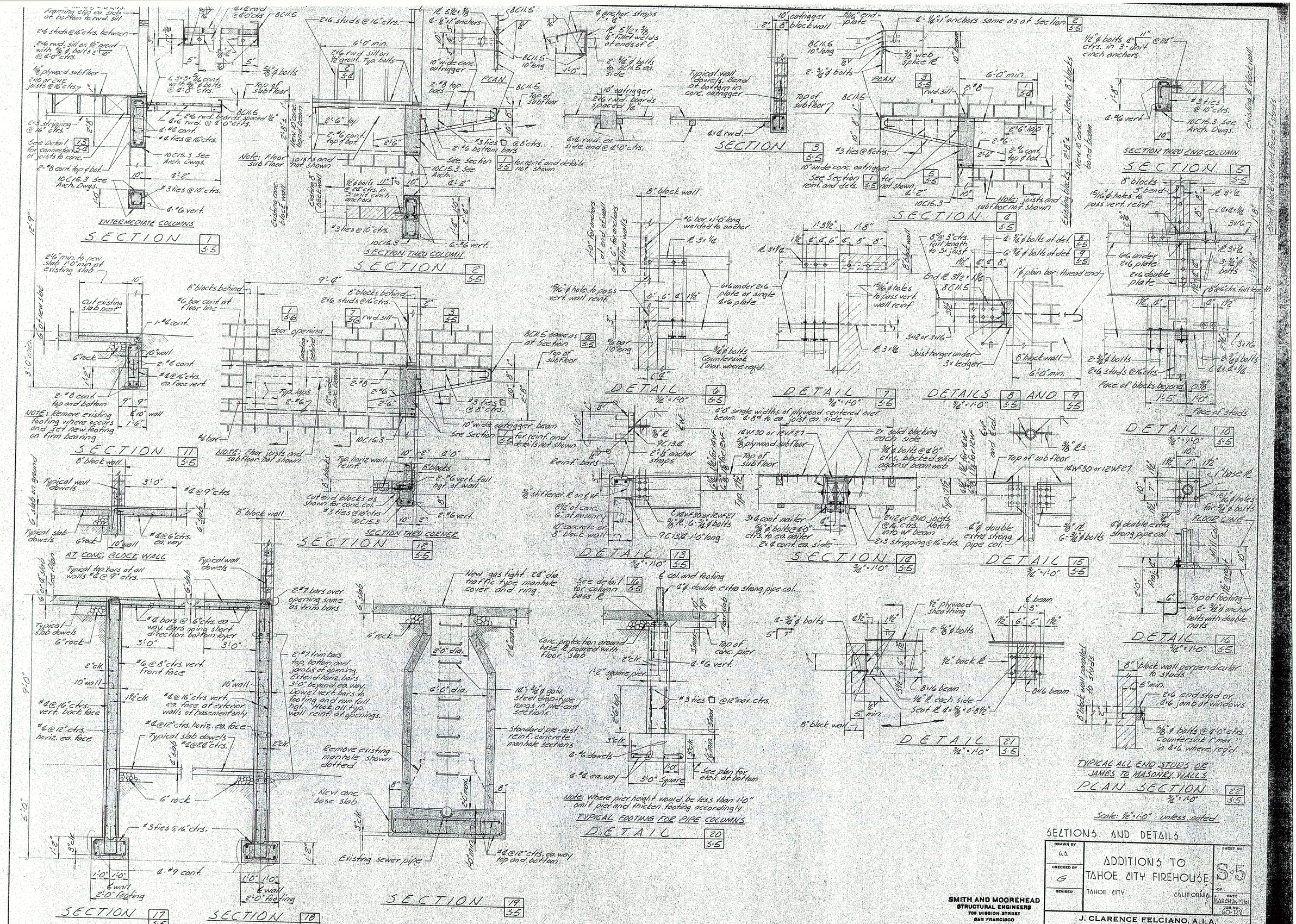
WALL ELEVATIONS

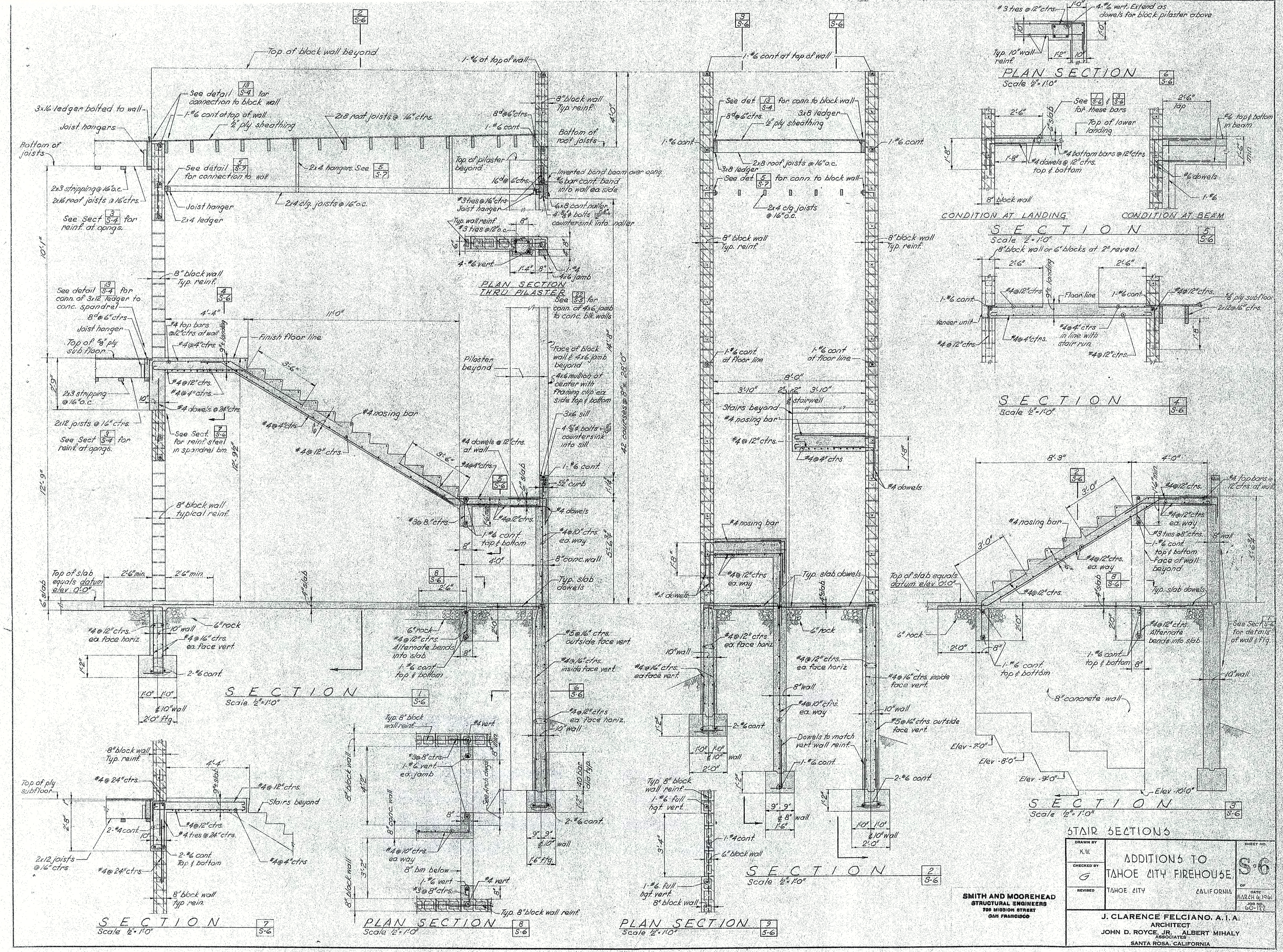
DRAWN BY LeROY	ADDITIONS TO TAHOE CITY FIREHOUSE	SHEET NO. S-3
CHECKED BY G	TAHOE CITY CALIFORNIA	OF
REVISED		DATE MARCH 6, 1961
		JOB NO. 60-122

J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. & ALBERT MIHALY
ASSOCIATES
SANTA ROSA, CALIFORNIA

SMITH AND MOOREHEAD
STRUCTURAL ENGINEERS
709 MISSION STREET
SAN FRANCISCO


SECTION 1 S-4
SECTION 2 S-4
SECTION 3 S-4
SECTION 4 S-4
SECTION 5 S-4
SECTION 6 S-4
SECTION 7 S-4
SECTION 8 S-4
SECTION 9 S-4
SECTION 10 S-4
SECTION 11 S-4
DETAIL 12 S-4
TYPICAL WALL AND FTG. SIDES OF HOSE TOWER
TYP. FDN. TIE
TYPICAL ANCHOR
JOISTS PERPENDICULAR TO WALL
JOISTS PARALLEL TO WALL
TYPICAL CONNECTION OF JOISTS TO CONCRETE OR MASONRY - DETAIL 13 S-4 Scale 1"=1'-0"
Scale 1/2"=1'-0" unless noted
WALL SECTIONS
DRAWN BY G.S. - K.W.
CHECKED BY G
REVISED
ADDITIONS TO TAHOE CITY FIREHOUSE
TAHOE CITY CALIFORNIA
SHEET NO. S-4
DATE MARCH 6, 1961
JOB NO. 60-122
SMITH AND MOOREHEAD
STRUCTURAL ENGINEERS
703 MISSION STREET
SAN FRANCISCO
J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. ALBERT MIHALY
ASSOCIATES
SANTA ROSA, CALIFORNIA


SECTION 1 5.5
INTERMEDIATE COLUMNS
SECTION 2 5.5
SECTION THRU COLUMN
PLAN
SECTION 3 5.5
SECTION 4 5.5
SECTION THRU END COLUMN
SECTION 5 5.5
SECTION 11 5.5
SECTION 12 5.5
SECTION THRU CORNER
AT CONC. BLOCK WALL
SECTION 17 5.5
SECTION 18 5.5
SECTION 19 5.5
TYPICAL FOOTING FOR PIPE COLUMNS
DETAIL 20 5.5
DETAIL 6 5.5
DETAIL 7 5.5
DETAILS 8 AND 9 5.5
DETAIL 10 5.5
DETAIL 13 5.5
SECTION 14 5.5
DETAIL 15 5.5
DETAIL 16 5.5
DETAIL 21 5.5
TYPICAL ALL END STUDS OR JAMBS TO MASONRY WALLS
PLAN SECTION 22 5.5
Scale: 1/2"=1'-0" unless noted
SECTIONS AND DETAILS
DRAWN BY G.S.
CHECKED BY G
REVISED
ADDITIONS TO TAHOE CITY FIREHOUSE
TAHOE CITY CALIFORNIA
SHEET NO. S.5
DATE MARCH 6, 1961
JOB NO. 60-120
SMITH AND MOOREHEAD
STRUCTURAL ENGINEERS
709 MISSION STREET
SAN FRANCISCO
J. CLARENCE FELCIANO, A.I.A.
ARCHITECT
JOHN D. ROYCE, JR. ALBERT MIHALY
ASSOCIATES
SANTA ROSA, CALIFORNIA


PLAN SECTION
Scale 1/2"=1'-0"
CONDITION AT LANDING
CONDITION AT BEAM
SECTION
Scale 1/2"=1'-0"
SECTION
Scale 1/2"=1'-0"
SECTION
Scale 1/2"=1'-0"
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PLAN SECTION
Scale 1/2"=1'-0"
PLAN SECTION
Scale 1/2"=1'-0"
PLAN SECTION
Scale 1/2"=1'-0"
Top of block wall beyond
1-#6 at top of wall
See detail 13/S-4 for connection to block wall
3x16 ledger bolted to wall
1-#6 cont at top of wall
1/2" ply sheathing
2x8 roof joists @ 16" ctrs.
Joist hangers
Bottom of joists
See detail 5/S-7 for connection to wall
2x4 hangers. See 5/S-7
2x3 stripping @ 16" o.c.
2x16 roof joists @ 16" ctrs.
Joist hanger
2x4 ledger
2x4 clg. joists @ 16" o.c.
See Sect 3/S-4 for reinf. at opngs.
8" block wall Typ. reinf.
Top of pilaster beyond
Inverted bond beam over opng.
#6 bar cont. bend into wall ea. side
6x8 cont. nailer
4-5/8"ø bolts countersink into nailer
Typ. wall reinf.
#3 ties @ 12" o.c.
4-#6 vert.
1-#4
4x6 jamb
PLAN SECTION THRU PILASTER
See detail 13/S-4 for conn. of 3x12 ledger to conc. spandrel
8"@6" ctrs.
Joist hanger
Top of 5/8" ply sub floor
#4 top bars @ 12" ctrs. at wall
#4@4" ctrs.
Finish floor line
#4@12" ctrs.
#4@4" ctrs.
#4 dowels @ 24" ctrs.
2x3 stripping @ 16" o.c.
2x12 joists @ 16" ctrs.
See Sect 3/S-4 for reinf. at opngs.
See Sect 7/S-6 for reinf. steel in spandrel bm.
#4 nosing bar
#4@12" ctrs.
#4 dowels @ 12" ctrs. at wall
#4@4" ctrs.
8" block wall typical reinf.
Top of slab equals datum elev. 0'-0"
2'-6" min.
6" slab
6" rock
#4@12" ctrs. ea. face horiz.
10" wall
#4@16" ctrs. ea. face vert.
2-#6 cont.
1'-0" 1'-0"
℄ 10" wall
2'-0" ftg.
Pilaster beyond
See Sect 22/S-5 for conn. of 4x6 jamb to conc. blk. walls
Face of block wall & 4x6 jamb beyond
4x6 mullion at center with framing clip ea. side top & bottom
3x6 sill
4-5/8"ø bolts countersink into sill
1-#6 cont.
5/2" curb
#4 dowels
#3@8" ctrs.
#4@12" ctrs.
1-#6 cont. top & bottom
#4@10" ctrs. ea. way
8" conc. wall
Typ. slab dowels
#5@16" ctrs. outside face vert.
#4@16" ctrs. inside face vert.
#4@12" ctrs. ea. face horiz.
10" wall
2-#6 cont.
Typ. 8" block wall reinf.
#4 vert.
#3@8" ctrs.
1-#6 vert. ea. jamb
#4@10" ctrs. ea. way
8" bm below
1-#6 vert.
#3@8" ctrs.
#4 vert.
Typ. 8" block wall reinf.
8" block wall
8" block wall typ. reinf.
Top of ply subfloor
#4@24" ctrs.
#4@12" ctrs.
Stairs beyond
#4@12" ctrs.
#4 ties @ 24" ctrs.
2-#4 cont.
2-#6 cont. Top & bottom
#4@4" ctrs.
2x12 joists @ 16" ctrs.
#4@24" ctrs.
8" block wall typ. rein.
1-#6 cont at top of wall
See det. 13/S-4 for conn. to block wall
8"@6" ctrs.
3x8 ledger
1/2" ply sheathing
1-#6 cont.
2x8 roof joists @ 16" o.c.
3x8 ledger
See det. 5/S-7 for conn. to block wall
2x4 clg. joists @ 16" o.c.
8" block wall Typ. reinf.
1-#6 cont. at floor line
1-#6 cont. at floor line
8'-0"
3'-10"
3'-10"
℄ stairwell
Stairs beyond
#4 nosing bar
#4@12" ctrs.
#4@4" ctrs.
#4 dowels
#4 nosing bar
#4@12" ctrs. ea. way
Typ. slab dowels
#4 dowels
#4@12" ctrs. ea. face horiz.
10" wall
#4@16" ctrs. ea. face vert.
#4@12" ctrs. ea. face horiz.
#4@16" ctrs. inside face vert.
8" wall
#4@10" ctrs. ea. way
10" wall
#5@16" ctrs. outside face vert.
2-#6 cont.
Dowels to match vert. wall reinf.
1-#6 cont.
2-#6 cont.
Typ. 8" block wall reinf.
1-#6 full hgt. vert.
1-#4 cont.
6" block wall
1-#6 full hgt. vert.
8" block wall
#3 ties @ 12" ctrs.
4-#6 vert. Extend as dowels for block pilaster above
Typ. 10" wall reinf.
1'-2"
10"
1'-0"
1'-0"
1'-0"
1'-2"
10"
2'-6"
See 5/S-6 & 3/S-6 for these bars
Top of lower landing
#4 bottom bars @ 12" ctrs.
#4 dowels @ 12" ctrs. top & bottom
8" block wall
2'-6" lap
#6 top & bottom in beam
#6 dowels
1-#6
1'-6" min.
8" block wall or 6" blocks at 2" reveal
1-#6 cont.
#4@12" ctrs.
Floor line
1-#6 cont.
#4@12" ctrs.
5/8" ply subfloor
2x12@16" ctrs.
Veneer unit
#4@12" ctrs.
#4@4" ctrs.
#4@4" ctrs. in line with stair run
#4@12" ctrs.
1'-8"
8'-3"
4'-0"
3'-0"
#4 top bars @ 12" ctrs. at wall
#4@12" ctrs. ea. way
#4 nosing bar
#3 ties @ 8" ctrs.
1-#6 cont. top & bottom
Face of wall beyond
#4@12" ctrs. ea. way
#4@12" ctrs.
Typ. slab dowels
Top of slab equals datum elev. 0'-0"
6" rock
#4@12" ctrs. Alternate bends into slab
1-#6 cont. top & bottom
1-#6 cont. top & bottom
See Sect 1/S-6 for details of wall & ftg.
10" wall
8" concrete wall
Elev. -7'-0"
Elev. -8'-0"
Elev. -9'-0"
Elev. -10'-0"
STAIR SECTIONS
DRAWN BY K.W.
CHECKED BY G
REVISED
ADDITIONS TO TAHOE CITY FIREHOUSE
TAHOE CITY CALIFORNIA
SHEET NO. S-6
OF
DATE MARCH 6, 1961
JOB NO. 60-122
SMITH AND MOOREHEAD
STRUCTURAL ENGINEERS
708 MISSION STREET
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G E N E R A L N O T E S

THESE NOTES APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED

GENERAL

a. The Contractor shall work the Structural Drawings with all Architectural, Mechanical, and Electrical Drawings and he shall be responsible that the structural elements shall meet the conditions of all other trades. The Contractor shall check ALL dimensions and elevations, and he shall verify all conditions in the field.

b. The Structural Drawings show only the structural elements: roof framing, bearing walls, shear elements, etc. For all non-bearing elements: non-bearing partitions, furring, etc., see Architectural Drawings.

c. Discrepancies, if any, between the Structural Drawings and the Architectural Drawings, or Mechanical and Electrical Drawings shall be reported to the Architect for clarification and adjustment before proceeding with the work.

d. In the event that certain features of the construction are not shown on the drawings, called for in the general notes, or specified in the specifications, then their construction shall be of the same general character as similar conditions that are shown or specified.

SYMBOLS

indicates a continuous wood member in section.

indicates a non-continuous wood member in section, as solid blocking, etc.

indicates the end of a wood member.

indicates solid blocking in elevation.

indicates concrete in section.

2 / S-1 — indicates section 2 which may be found on sheet S-1.

FOUNDATIONS

a. Footing design is based on compact course sand at allowable soil pressures of 2200 psf for DL only and 3200 psf for DL + LL.

b. Bottoms of footings shall be at the elevation shown on the drawings, or 3'-0" minimum below original or finish grade, or as necessary to bear on firm material; whichever is the deepest.

CONCRETE

a. See Specifications for strengths, mixes, and slumps.

b. All construction joints and pour joints shall be as shown on the drawings. The location of additional construction joints must be approved by the Architect. Construction joint keys shall be made by setting pieces of wood along the center lines of walls, on freshly poured concrete for horizontal joints, or nailed to forms for vertical joints; see typical details. The wood pieces shall be removed after the concrete has set. The horizontal surfaces of all construction joints shall be cleaned and roughened as described in the specifications. See specifications for grout layer required at pour joints.

c. All floor slab and other slabs on ground shall be not less than 4 inches thick unless otherwise shown. Dowel to all footings or walls as shown. Pour in alternate sections not to exceed 1000 sq.ft. nor 32'-0" in any one direction. See specifications for cushion material under slabs. See Foundation plans and details for reinforcing.

MASONRY

Concrete block units shall be laid up in mortar as specified in the specifications. Fill all cells solidly with 2000 psi grout. Maximum height of grout pour is 4'-0" unless cleanout openings are provided at bottoms of all cells. Typical wall reinforcing shall be #4 @ 24" centers vertical and #4 @ 24" centers horizontal in standard bond beam units.

REINFORCING STEEL

a. All bars shall be deformed bars of Intermediate Grade, ASTM A15-54 and A305-53, of sizes as shown. Number two bars shall be plain bars. All bars shall be in as long a length as practicable, and bars shall lap a minimum of 40 bar diameters at splices. Splices in adjacent bars shall be, if possible, at least 5'-0" apart. All bars shall be tied at all intersections with #16 annealed wire. All bends and hooks of bars shall be as shown. See typical details for arrangement of horizontal wall or footing bars at wall or footing intersections and at corners.

b. Clips, chairs and other types of supports for steel shall be used and of a type approved by the Architect. Footing bars and reinforcing in slabs on ground shall be supported on precast concrete blocks of proper height. Spacing of blocks shall be 3'-0" maximum centers for footing bars and 3'-0" maximum centers each way for slab reinforcing. All bars must be thoroughly protected by concrete as per detailed dimensions on the drawings. Minimum concrete coverage shall be as follows:

Formed surfaces below grade	2"	Main bars in beams	2"
Surfaces poured against earth	3"	Main bars in columns	2"
Exterior wall faces	2"	Suspended slabs, top & bottom	1"
Interior wall faces	1½"	Slabs on ground	In center

c. Wherever conduits, piping, inserts, sleeves, etc. interfere with the placing of reinforcing steel as shown or called for, the Contractor shall consult the Architect and secure from him the method of procedure before pouring any concrete. The bending of bars around openings or sleeves will not be permitted.

STRUCTURAL STEEL

All members shall frame as shown with connections made as shown. Unless otherwise shown, all shop and field connections shall be made with 3/4" diameter unfinished machine bolts in 13/16" diameter holes with lock washers under nuts. All pipe columns shall be grade "B" conforming to "Standard Specifications for Welded and Seamless Steel Pipe" (ASTM A-53 and API-5L).

CARPENTRY

a. All lumber for carpentry work shall be of sizes as called for, framed as shown, and grades as specified in the specifications.

b. Only exterior walls and interior stud bearing walls are shown on the framing plans. See sections and details for framing of these walls. See Architectural Drawings for the extent of all interior non-bearing partitions. All bearing and non-bearing walls and partitions shall be complete with top and bottom plates, lintels and cripples at openings, solid blocked at mid-height or maximum of 8'-0" in height. Provide all furring, backing, blocking, etc. as necessary or required for fastening indicated finishes and to obtain all lines and profiles as shown on the Architectural Drawings.

c. Unless otherwise shown, all joists shall lap 1'-0" over supports (where possible). At supports provide full bearing under joists. Provide joist hangers for all joists framing into beams - see typical details. Provide 2" solid blocking between joists at all supports. See details where special blocking occurs.

d. Provide 2 x 3 cross-bridging or 2" nominal solid blocking between joists for joists greater than 8 inches in depth and for joist spans over 8'-0".
Spans 16'-0" and less shall have one row at center of span.
Spans over 16'-0" and less than 24'-0" shall have two rows - at third points of span.
Spans over 24'-0" and less than 32'-0" shall have three rows - at quarter points of span.

e. Ceiling joists are NOT shown on the Framing Plans nor completely shown on the Structural Sections and Details. See Architectural Drawings for all ceiling heights. Ceiling joists, where required, shall be 2 x 4 at 16" centers, spanning a maximum distance of 8'-0". For larger spans, hang from roof or floor joists per typical details. Where ceiling joists frame into stud partitions, provide all necessary solid blocking.

f. Plywood roof sheathing and plywood subfloor shall be C-C Exterior Grade, grade marked with D.F.P.A. stamp. Plywood shall be placed with the long dimension or face grain of panel perpendicular to the joists. End joints of plywood shall butt at center line of joists. All side joints of plywood shall be blocked and shall butt at center line of blocking - see details. End joints of plywood shall be staggered 4'-0". Plywood roof sheathing and subfloor shall be nailed as follows:

8d at 6-inch centers for end joints of panels and for side joints of panels occurring at blocking, and 8d at 12-inch centers for all other contacts.

g. Plywood wall sheathing shall be 1/2 inch thick, C-C Exterior Grade. Horizontal and vertical joints need not be staggered. Vertical joints shall butt at center lines of studs or vertical framed members. All horizontal joints shall butt at center of 3 x blocking. Nail with 8d at 6" centers at all edges of panels and 8d at 12" centers for all other contacts.

h. Minimum edge distance for nailing in plywood and framing members shall be 3/8 inch. Short nails of equivalent wire gauge may be used in place of 8d or 10d common nails.

i. Pipes in stud walls shall be placed in center of plates using neat bored holes. Where holes in plates exceed 1/3 their width, plate shall be reinforced as per typical details.

j. Metal connectors shall be of proper size for wood members and with proper nailing. Where standard common nails will project through wood members, provide special short length nails of equivalent wire gauge. See typical details of metal connectors.

k. All bolts shall be common bolts in drilled holes. Drilled holes shall be same size as bolt. Provide malleable iron washers or plate washers under heads and/or nuts bearing on wood. Washers shall be of the following sizes:

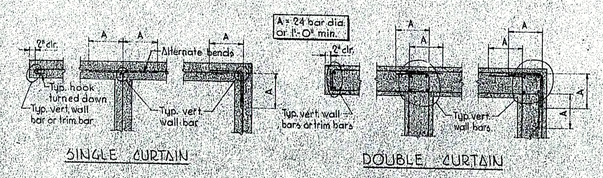
BOLT DIAMETER	MALLEABLE IRON WASHER ROUND	MALLEABLE IRON WASHER THICKNESS	STEEL PLATE WASHER SQUARE	STEEL PLATE WASHER THICKNESS
1/2"	2-1/2"	5/16"	2"	1/4"
5/8"	2-3/4"	5/16"	2-1/4"	5/16"
3/4"	3"	7/16"	2-5/8"	5/16"
7/8"	3-1/2"	7/16"	3-1/8"	3/8"
1"	4"	1/2"	3-5/8"	7/16"
1-1/8"	4-1/2"	9/16"	4"	1/2"
1-1/4"	5"	3/4"	4-1/2"	1/2"

l. All wood screws and lag screws shall be placed in drilled lead holes and shall be turned into place, not driven by hammer. Lead holes for wood screws shall be 70% of shank diameter. Holes for lag screws shall be drilled as follows:
1) Drill hole same diameter and depth as unthreaded shank.
2) Drill lead hole with diameter 3/4 times unthreaded shank diameter and 1/2" less than the total depth in wood.

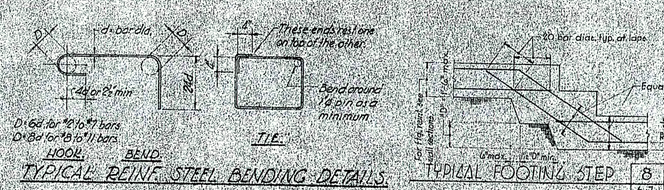
m. All nails shall be common wire nails, except where otherwise noted. Holes for nails shall be pre-drilled where splitting of wood may occur. Size of hole shall be 1/32 inch less than the diameter of nail, and 1/2 inch less than the length of the nail. Unless otherwise shown or noted, the following nailing shall be minimum.

Joist at lap	4 - 16d.
Joist to bearing	2 - 10d toes each side.
Joist to side of stud	
8-inch joist or less	3 - 16d.
each additional 4 inches in depth	1 - 16d.
Multiple joist - 10 inch and less	16d at 12" ctrs, staggered.
over 10 inch	1/2" bolts at 24" centers staggered.
Solid blocking between joists, to joists	2 - 10d toes each side each end.
Solid blocking to bearing	2 - 10d toes each side of ea. piece of blocking.
Cross-bridging between joists	2 - 8d toe nails ea. end.
Upper top plate to lower top plate	16d at 12" centers.
Lower top plate to stud	2 - 20d.
Multiple studs - stagger for widths more than 4 inches	16d at 12" centers.
Ribbon to stud - 1-inch material	2 - 8d.
2-inch material	2 - 16d.
Studs to bearing	2 - 10d toes each side.
Solid blocking to studs	2 - 10d toes each side, each end or 2 - 16d through nails each end.
2 x 3 stripping to joists	2 - 12d) one straight and
1" nominal or 1" net stripping to joists	2 - 8d) one slant.
Plywood (non-Structural) all edges	6d at 6" o.c.
all intermediate bearing	6d at 12" o.c.

Unless otherwise noted or indicated, all 2" material shall be nailed with 2 - 16d at each bearing or joint and 1" material with 2 - 8d at each bearing or joint.

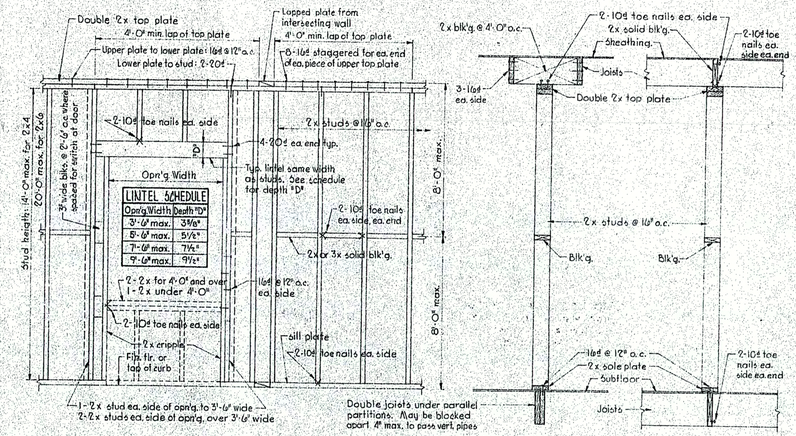


TYPICAL ARRANGEMENT OF HORIZONTAL BARS AT CORNERS AND INTERSECTIONS FOR FOOTINGS AND CONCRETE OR MASONRY WALLS — 7 / S-7



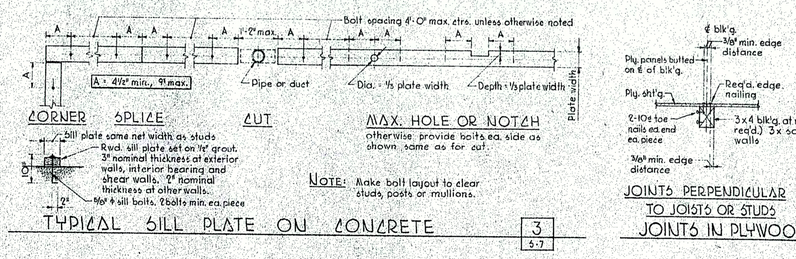
TYPICAL REINF. STEEL BENDING DETAILS

TYPICAL FOOTING STEP — 8 / S-7



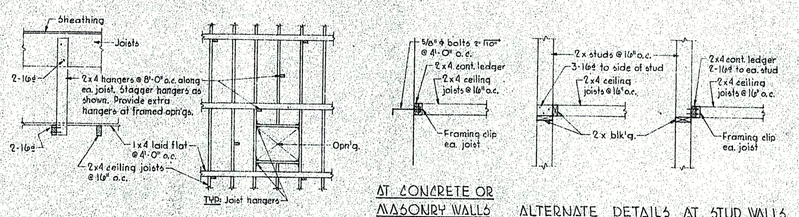
TYPICAL STUD WALL FRAMING DETAILS — 1 / S-7

TYPICAL JOIST AT BEARING — 2 / S-7



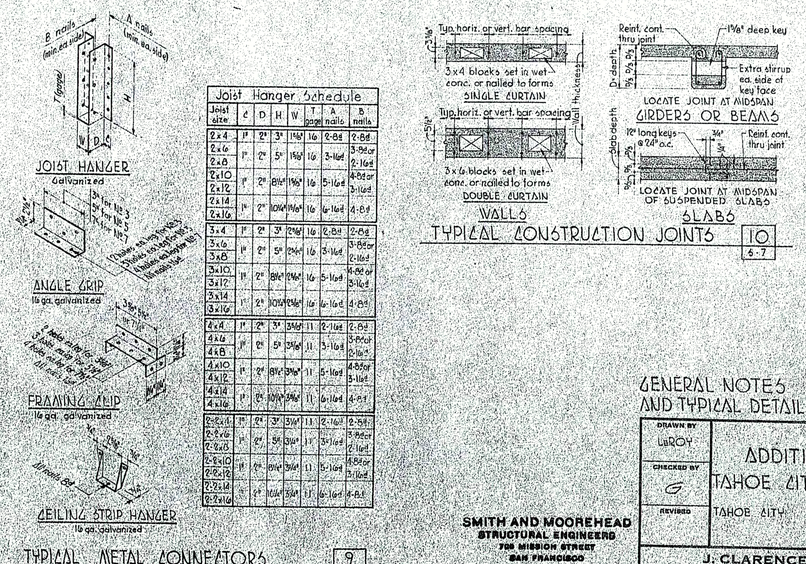
TYPICAL SILL PLATE ON CONCRETE — 3 / S-7

JOINTS IN PLYWOOD SHEATHING — 4 / S-7



TYPICAL HUNG CEILING DETAILS — 5 / S-7

HOLES THRU TOP PLATE — 6 / S-7



Joist size	d	D	H	W	T	A page	A nails	B nails
2x4	1"	2"	3"	1 5/16"	16	2	2-8d	2-8d
2x6	1"	2"	5"	1 5/16"	16	3	3-16d	3-16d or 2-16d
2x8	1"	2"	6 1/4"	1 5/16"	16	5	3-16d	4-8d or 3-16d
2x10	1"	2"	8 1/4"	1 5/16"	16	5	3-16d	5-16d
2x12	1"	2"	10 1/4"	1 5/16"	16	6	4-16d	4-8d
2x14	1"	2"	12 1/4"	1 5/16"	16	6	4-16d	4-8d
2x16	1"	2"	14 1/4"	1 5/16"	16	6	4-16d	4-8d
3x4	1"	2"	3"	2 5/16"	16	2	2-8d	2-8d
3x6	1"	2"	5"	2 5/16"	16	3	3-16d	3-8d or 2-16d
3x8	1"	2"	6 1/4"	2 5/16"	16	5	3-16d	4-8d or 3-16d
3x10	1"	2"	8 1/4"	2 5/16"	16	5	3-16d	5-16d
3x12	1"	2"	10 1/4"	2 5/16"	16	6	4-16d	4-8d
3x14	1"	2"	12 1/4"	2 5/16"	16	6	4-16d	4-8d
3x16	1"	2"	14 1/4"	2 5/16"	16	6	4-16d	4-8d
4x4	1"	2"	3"	3 5/16"	11	2	2-16d	2-8d
4x6	1"	2"	5"	3 5/16"	11	3	3-16d	3-8d or 2-16d
4x8	1"	2"	6 1/4"	3 5/16"	11	5	3-16d	4-8d or 3-16d
4x10	1"	2"	8 1/4"	3 5/16"	11	5	3-16d	5-16d
4x12	1"	2"	10 1/4"	3 5/16"	11	6	4-16d	4-8d
4x14	1"	2"	12 1/4"	3 5/16"	11	6	4-16d	4-8d
4x16	1"	2"	14 1/4"	3 5/16"	11	6	4-16d	4-8d
2-2x4	1"	2"	3"	3 1/2"	11	2	2-16d	2-8d
2-2x6	1"	2"	5"	3 1/2"	11	3	3-16d	3-8d or 2-16d
2-2x8	1"	2"	6 1/4"	3 1/2"	11	5	3-16d	4-8d or 3-16d
2-2x10	1"	2"	8 1/4"	3 1/2"	11	5	3-16d	5-16d
2-2x12	1"	2"	10 1/4"	3 1/2"	11	6	4-16d	4-8d
2-2x14	1"	2"	12 1/4"	3 1/2"	11	6	4-16d	4-8d
2-2x16	1"	2"	14 1/4"	3 1/2"	11	6	4-16d	4-8d

Joist Hanger Schedule

TYPICAL CONSTRUCTION JOINTS — 10 / S-7

TYPICAL METAL CONNECTORS — 9 / S-7

GENERAL NOTES AND TYPICAL DETAILS

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DRAWN BY: LeROY	ADDITIONS TO TAHOE CITY FIREHOUSE	SHEET NO. S-7
CHECKED BY: G	TAHOE CITY, CALIFORNIA	DATE: MARCH 1961
REVISED		JOB NO. 60-100

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