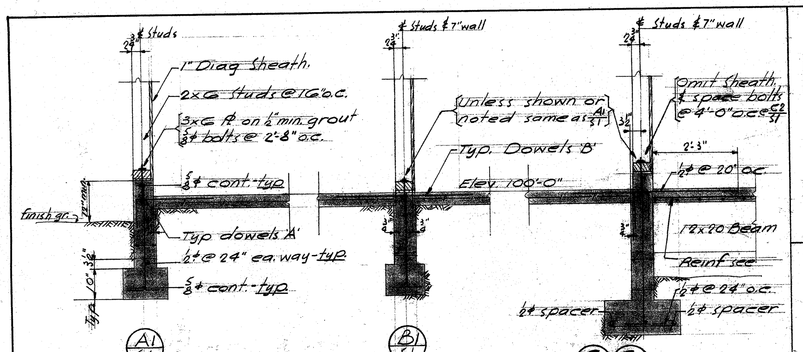
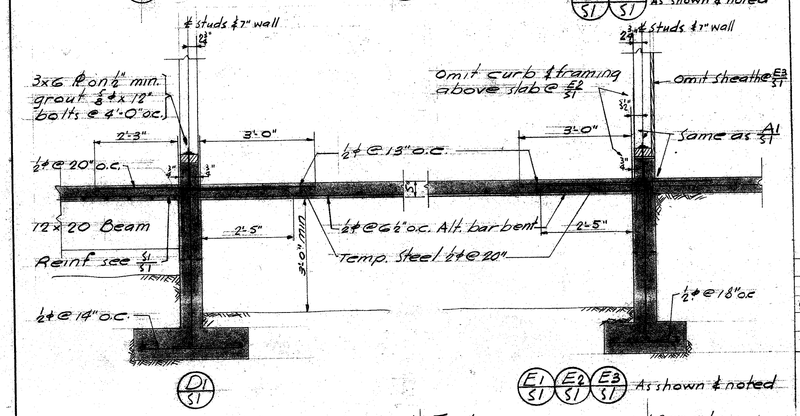
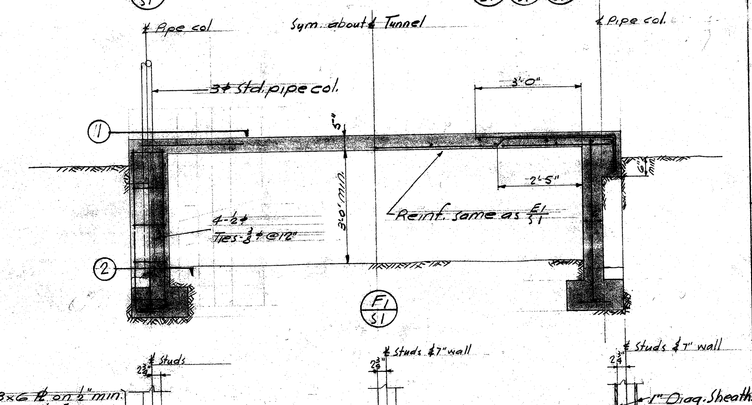
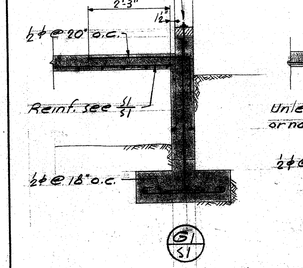
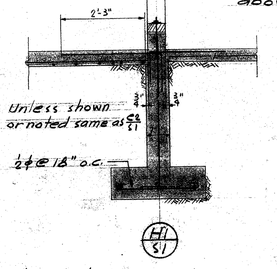
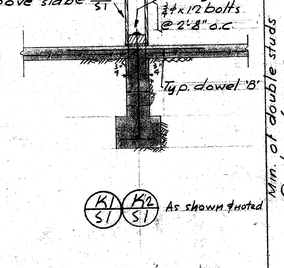


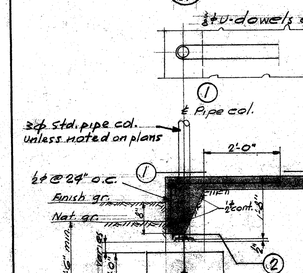


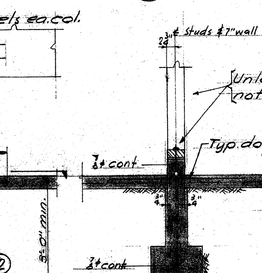


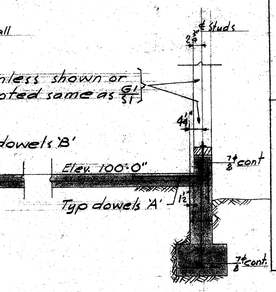


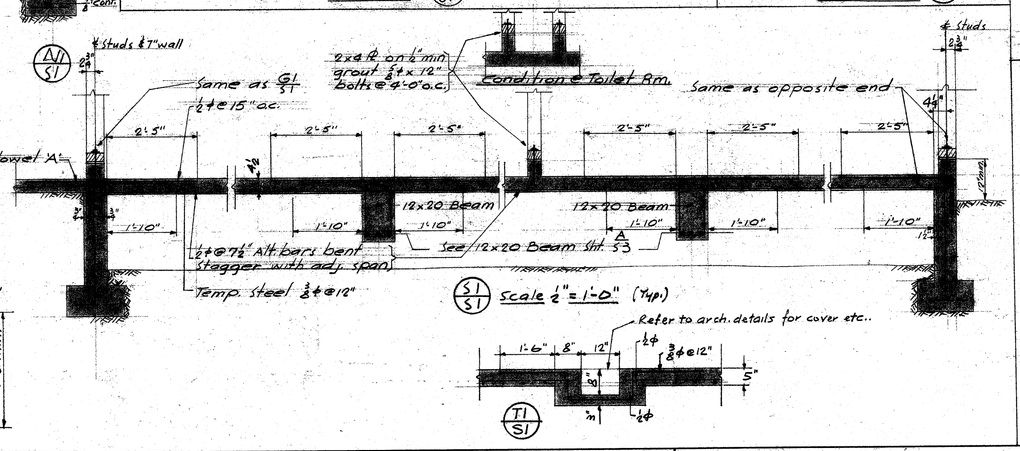


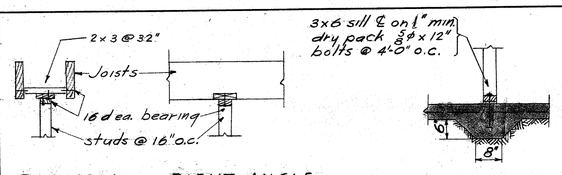


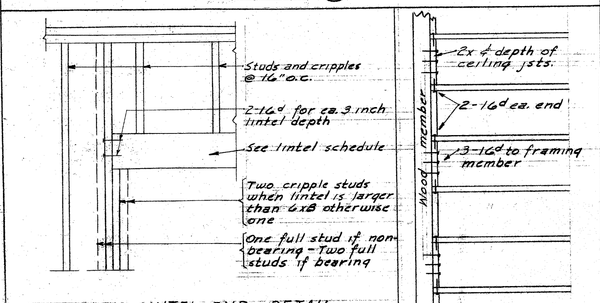






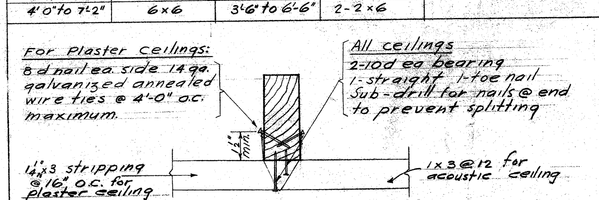


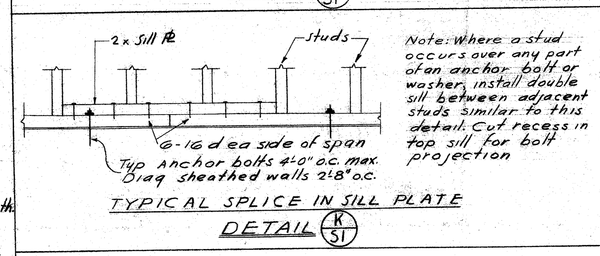


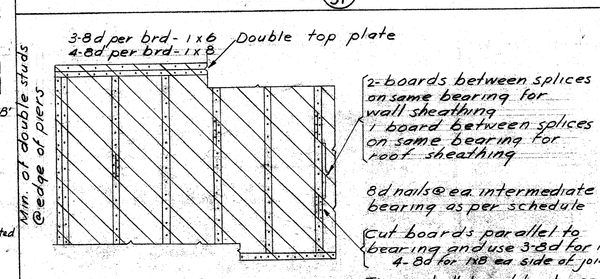


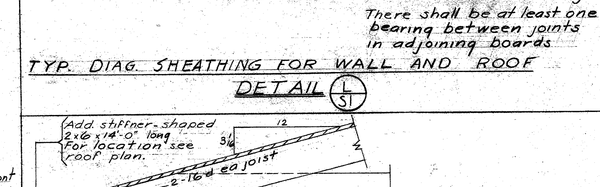
LINTEL SCHEDULE

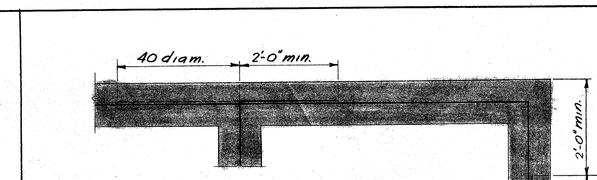
BEARING WALLS		NON BEARING WALLS	
OPENING SIZE	LINTEL SIZE	OPENING SIZE	LINTEL SIZE
3'-6" or less	2-2x6	3'-0" or less	2-2x4
4'-0" to 7'-2"	6x6	3'-6" to 6'-6"	2-2x6

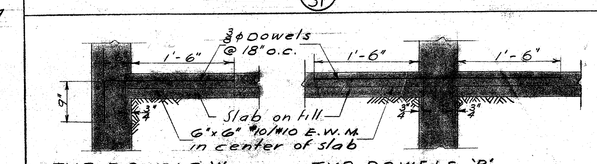


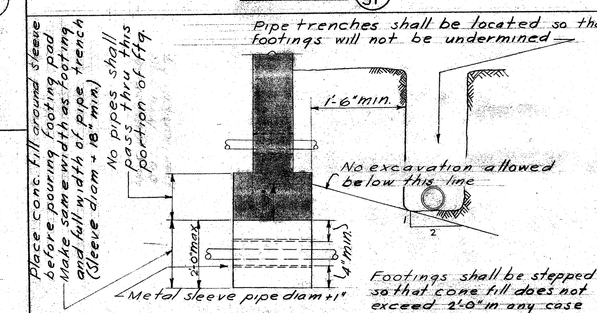


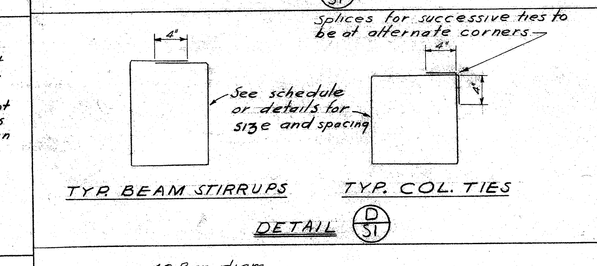


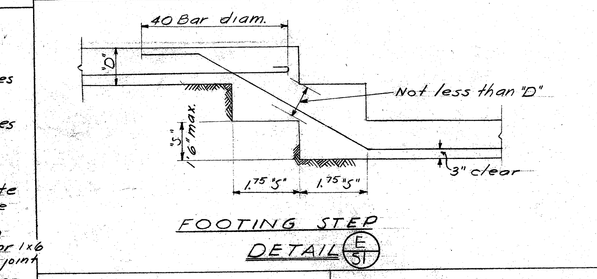


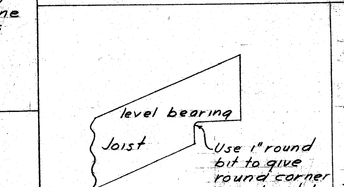


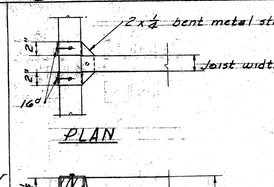


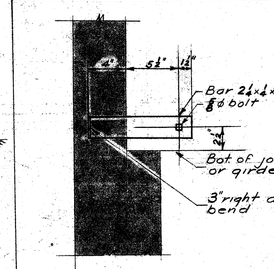












GENERAL NOTES

REINFORCED CONCRETE:

1. Soil supporting footing is sandy loam
2. Soil bearing value used in design assumed to be 1200 #/ft² D+L
3. Footings shall be at least 1'-6" into natural undisturbed soil and deeper where so indicated (2'-0" in cafeteria bldg.)
4. No brick or porous material shall be used to support footing steel off ground
5. All concrete shall have a min. ultimate compressive strength of 2500 #/in² @ 28 days
6. Anchor bolts and dowels shall be securely held in place before concrete is placed
7. Splices in reinforcing steel shall lap 40 bar diam. except that column may lap 30 bar diam. min., unless noted. Separate bars 2¢ diam. o.c. at all laps (1½" clear).
8. Column dowels may be separated 1" min. clear.
9. Reinf. steel shall have the min. protective concrete covering indicated below.

Footing pads	3"	Beams sides tops and soffits	1½
Columns (main steel)	2"	Slabs	¾

10. Slabs on fill other than walks shall be reinf. 6'x6'-10#/10# E.W.M. (electric welded wire fabric) placed in center of slab
11. Dowel slabs to walls as per typ. details.
12. See Arch. and/or Mech. drawings for location of pipe, vent duct and other similar openings.
13. Anchorage of dowels shall be equivalent to bar splice

STRUCTURAL STEEL:

1. Rivets shall be ¾ϕ. Bolts shall be ¾ϕ unless otherwise noted
2. When stresses are not given or details not shown design connections for member carrying direct stress to develop the strength of the members.
3. Standard beam connections or connections of equal strength shall be used for all beam connections not shown.
4. Base plates shall be bedded on dry pack of 1" min. thickness. All structural steel shall conform to the latests A.S.T.M. serial designated A-7
5. All welding shall be done by the electric shielded arc process. Provide "Magnaflux" inspection where called for on various details

TIMBER:

1. All framing lumber to be grade 1200f Douglas Fir except beams 5" or more in width which are to be 1600 f.b.f. Post, beams, etc. to be S4S
2. Mudsills shall be treated Douglas Fir set in drypack 1" min. and bolted to conc. with ⅝ϕ x 12" bolts @ 4'-0" o.c. for unsheathed walls and 2'-8" o.c. for sheathed walls with a bolt within 9" of end of any piece
3. Studs shall be spaced @ 16" o.c. max. and of the size shown on plans
4. No structural member shall be cut for pipes unless specifically shown or noted
5. Unless specifically shown or noted small openings shall be framed with double joists or rafters of full length
6. Joists shall be spliced at supports only (except as detailed) Splices shall have a lap of joists not less than 1'-0" with 3-16d nails with a depth up to 8" and 1-16d additional for ea. 4" increase in depth of joists
7. Two inch solid blocking shall be placed between joists at all supports
8. Holes for bolts shall be bored with a bit of the same nominal diam. as the bolt
9. All roof sheathing shall be 1x6 or 1x8 T&G end matched

REINFORCED BRICK:

1. All masonry shall be grouted brick masonry
2. Mortar Mix: 1 part cement 3 parts sand, ½ quart of suconem per sack of cement Grout Mix: same
3. Grouted joint brick shall be grade M.W. burned clay brick
4. Splices in reinf. steel shall lap 50 bar diam.

NAILING SCHEDULE

DETAIL	*NAILING
Joists or rafters to sides of studs 8" or less	3-16d
for ea. add 4"	1-16d
Joists or rafters at all bearings-toe nail ea. side	2-10d
Studs to bearing-toe nail ea. side	2-10d
Blocking between joists or rafters to joists or rafters-toe nail ea. side ea. end	2-10d
to bearings-toe nail ea. side	2-10d
Sheathing @ interior bearings: @ end bearings:	
1x8 2-8d	3-8d
1x8 3-8d	4-8d
Cross bridging between joists or rafters-toe nail ea. end	2-8d
Herringbone blocking	2-10d
Ceiling strips	
1x3 to underside of jsts., per bearing	2-8d
1½"x3"	2-10d
Ribbons to studs	
1" ribbon	2-8d
2" ribbon	2-16d
Double top plates	
lower plate to top of stud	2-20d
upper plate to lower plate	16d @ 18"
Multiple studs stagger for widths more than 4"	16d @ 12"
Built up beams	
8" or less in depth - staggered	16d @ 12"
more than 8" deep	⅝ϕ bolts @ 24"
Double joists under partitions	
where not blocked apart-staggered	16d @ 12"
where blocked apart-@ ea. block	2-20d

*All nails shall be common wire nails
Covers min. permissible connections only
Refer to details for special nailing

LEGEND

- Concrete in section
- Wood in section
- wood blocking
- Brick in section
- Footing step
- 5 — 0'-00" Elevation at bottom of footing

No scale

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
ARCHITECTS BUILDING LOS ANGELES 13
Laurence Nowell

NOTE: CONTRACTOR IS TO VERIFY ALL DIMENSIONS ON THE WORK. THIS DRAWING IS THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED ON COMPLETION OF THE CONTRACT.

STATE OF CALIFORNIA-DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE:
APPLICATION NO. 5813 — APPROVED 5-27-48
Edgar W. Rule
REGISTERED STRUCTURAL ENGINEER

CASTRO LANE SCHOOL
FOR
BAKERSFIELD CITY SCHOOL DIST.
BAKERSFIELD CALIFORNIA

C. H. Biggar

CHARLES H. BIGGAR
A.I.A. ARCHITECT
& ASSOCIATES
HABERFELDE BUILDING
BAKERSFIELD CALIFORNIA

DRAWN JR & FC.
REVISIONS
SHEET NO. S1

S1