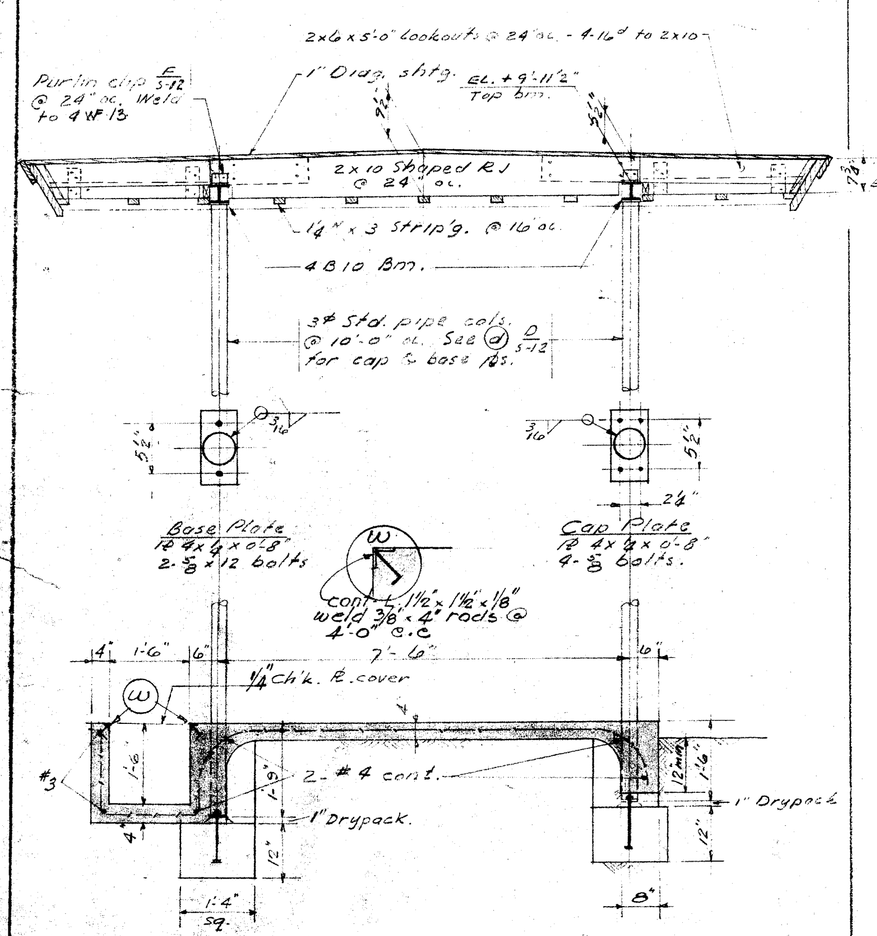
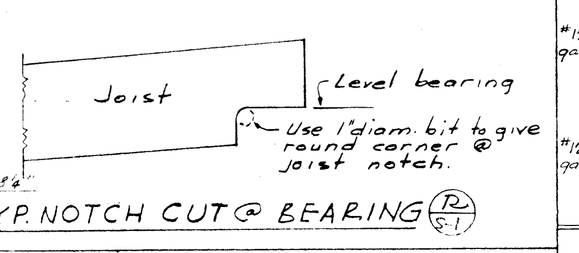
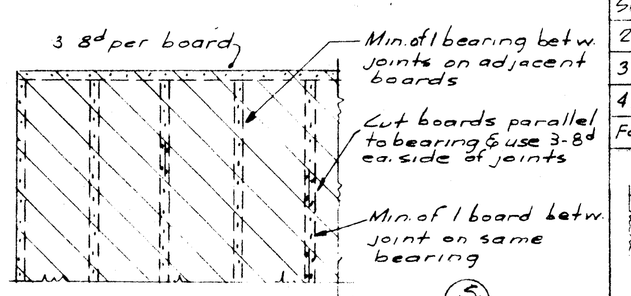
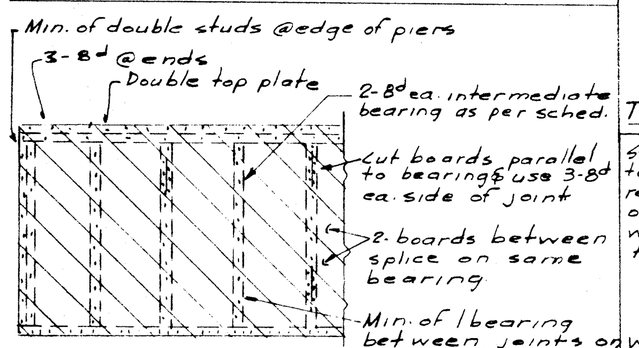




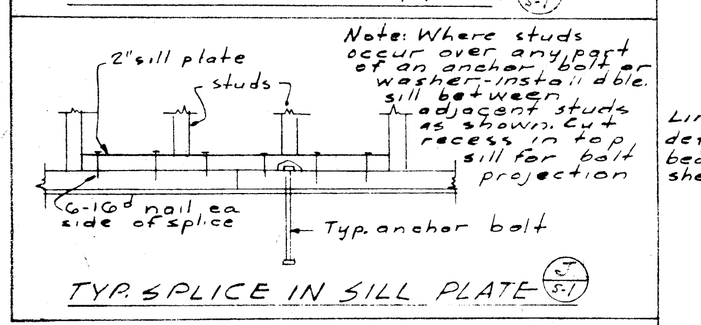
TYP. NOTCH CUT @ BEARING (P S-1)



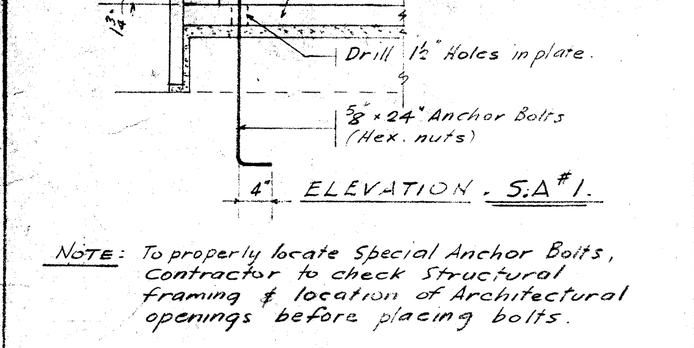
TYP. DIAG. ROOF SHEATHING (S S-1)



TYP. DIAG. WALL SHEATHING (T S-1)

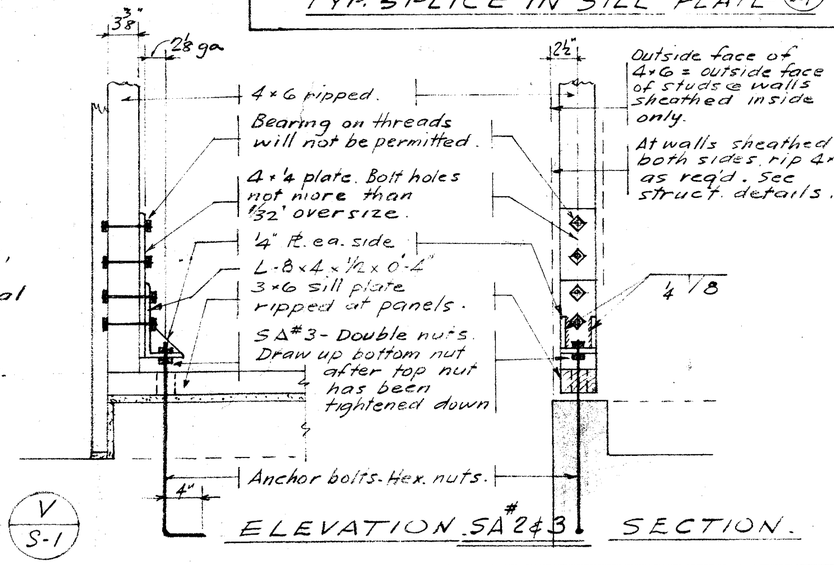


TYP. SPLICE IN SILL PLATE (U S-1)

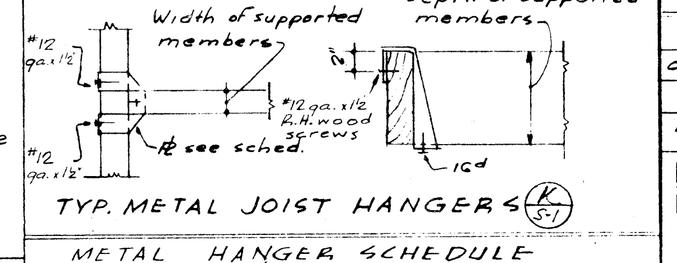


NOTE: To properly locate Special Anchor Bolts, contractor to check Structural framing & location of Architectural openings before placing bolts.

SA #2 - 3-3/4 Bolts. 1-3/4 x 9'-6" Anchor bolt.
SA #3 - 4-3/4 " 1-7/8 x 2'-6" " "



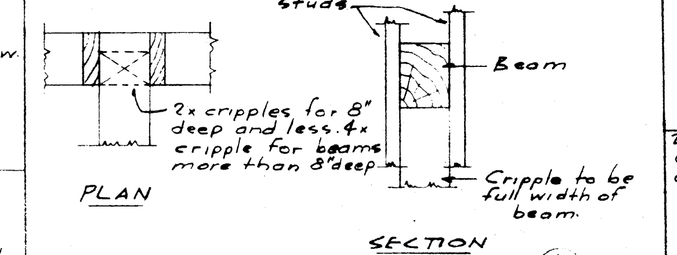
SPECIAL ANCHORS (V S-1)



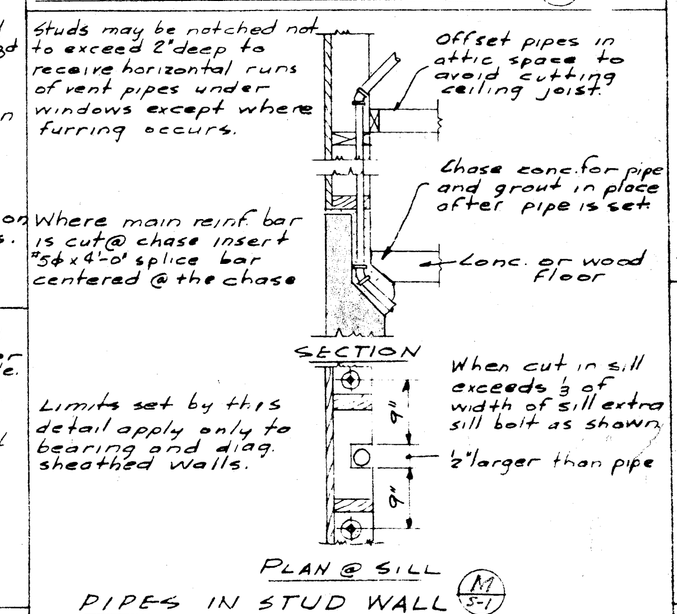
TYP. METAL JOIST HANGERS (K S-1)

METAL HANGER SCHEDULE

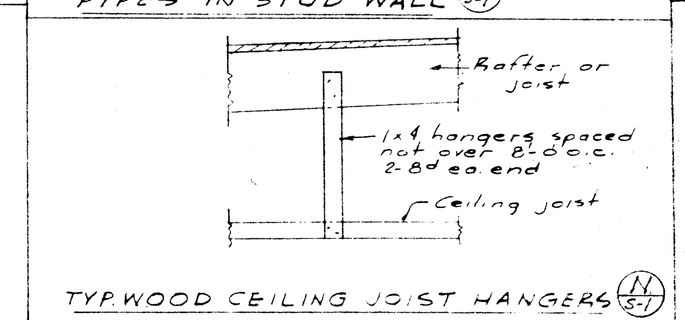
SIZE OF SUPPORTED MEMBER	SIZE OF MATERIAL
2x14 or 3x10 or less	2" x 3 1/2" fl
3x14 or 4x10 or less	2 1/2" x 3 1/2" fl
4x14 or 6x10 or less	2 1/2" x 4" fl
For ceiling joist only use 16 ga. material 2" wide	



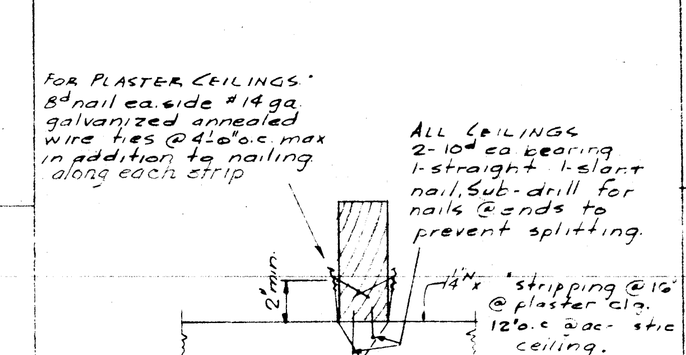
TYP. SUPPORT OF BEAM AT WALL (L S-1)



PIPES IN STUD WALL (M S-1)



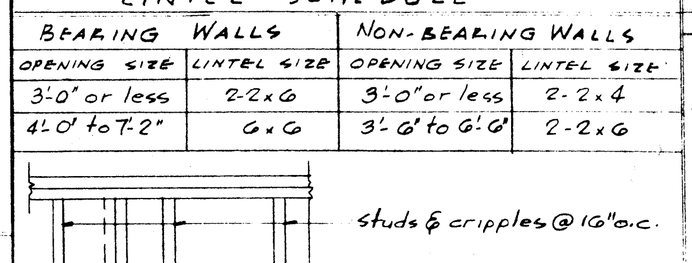
TYP. WOOD CEILING JOIST HANGERS (N S-1)



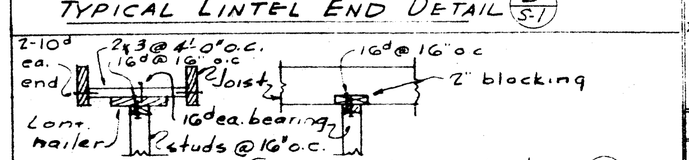
STRIPPING FASTENING (P S-1)

LINTEL SCHEDULE

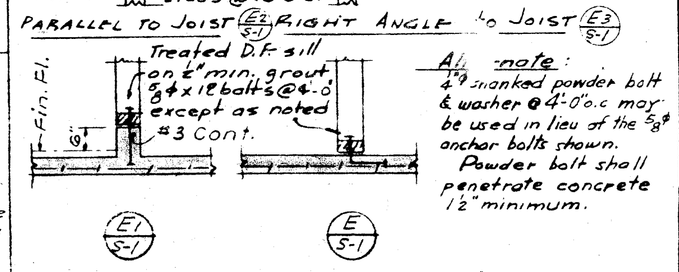
BEARING WALLS		NON-BEARING WALLS	
OPENING SIZE	LINTEL SIZE	OPENING SIZE	LINTEL SIZE
3'-0" or less	2-2x6	3'-0" or less	2-2x4
4'-0" to 7'-2"	6x6	3'-6" to 6'-6"	2-2x6



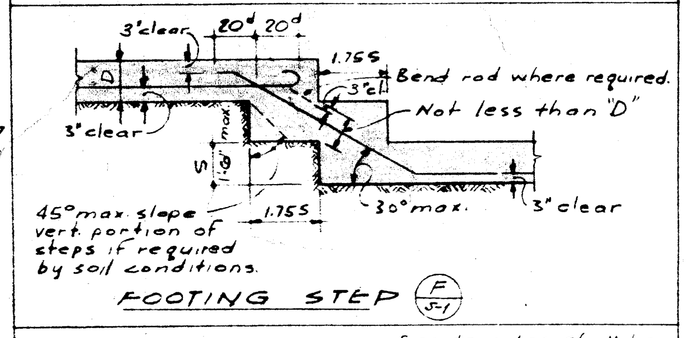
TYPICAL LINTEL END DETAIL (D S-1)



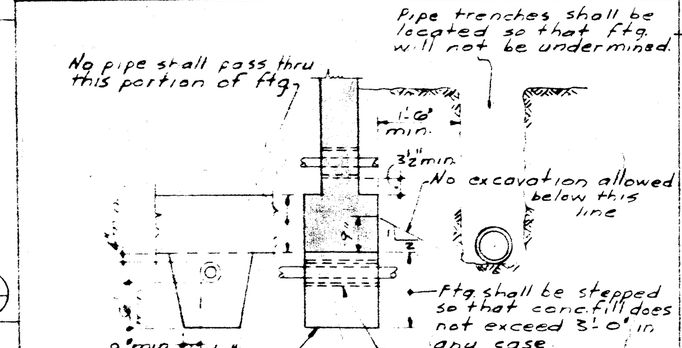
PARALLEL TO JOIST RIGHT ANGLE to JOIST (E S-1)



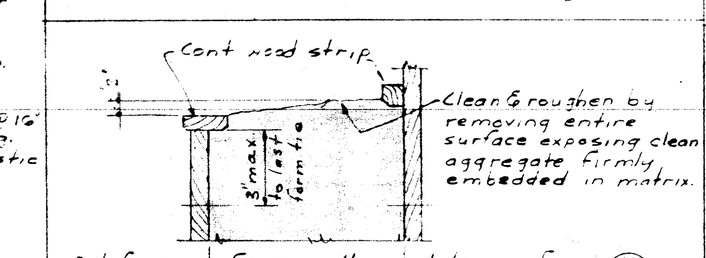
TYP. NON-BEARING PARTITIONS (E S-1)



FOOTING STEP (F S-1)



PIPE & TRENCH LOCATION (G S-1)



TYP. FORM DETAIL @ POUR JOINT (H S-1)

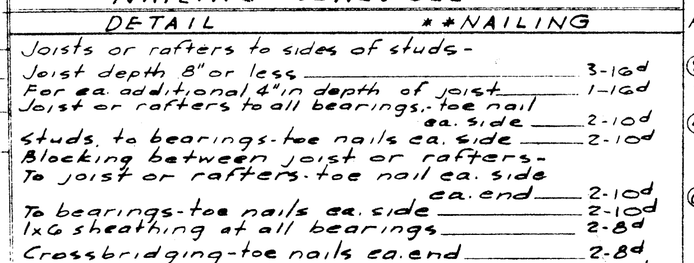
* NAILING SCHEDULE

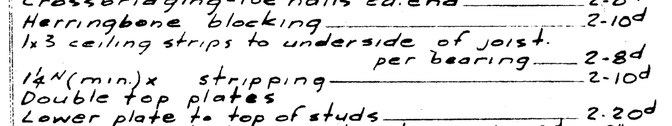
DETAIL	** NAILING
Joists or rafters to sides of studs -	
Joist depth 8" or less	3-10d
For ea. additional 4" in depth of joist	1-10d
Joist or rafters to sol bearings, toe nail ea. side	2-10d
Studs, to bearings - toe nails ea. side	2-10d
Blocking between joist or rafters - To joist or rafters - toe nail ea. side ea. end	2-10d
To bearings - toe nails ea. side	2-10d
1x6 sheathing at all bearings	2-8d
Cross bridging - toe nails ea. end	2-8d
Herringbone blocking - toe nails ea. side	2-10d
1x3 ceiling strips to underside of joist. per bearing	2-8d
1 1/2" (min) x stripping	2-10d
Double top plates	2-10d
Lower plate to top of studs	2-20d
Upper plate to lower plate - staggered	16d @ 18" o.c.
Multiple studs staggered for width more than 4"	16d @ 12" o.c.
Built up beams 8" or less in depth - staggered	16d @ 12" o.c.
More than 8" deep - staggered	5/8" bolts @ 24" o.c.
Double joists under partitions	2-8d
Where not blocked apart - staggered	16d @ 12" o.c.
Where blocked apart - at ea. block	2-20d
1" ribbons to studs	2-8d

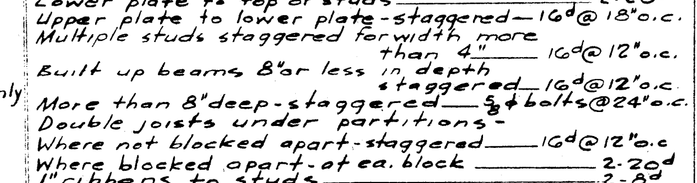
* Covers most permissible conns. only. Refer to details for special nailing.
** Use all nails shall be common wire nails. Where possible, nails driven perpendicular to the grain shall be used instead of toe nails.

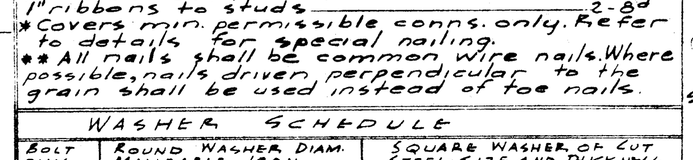
WASHER SCHEDULE

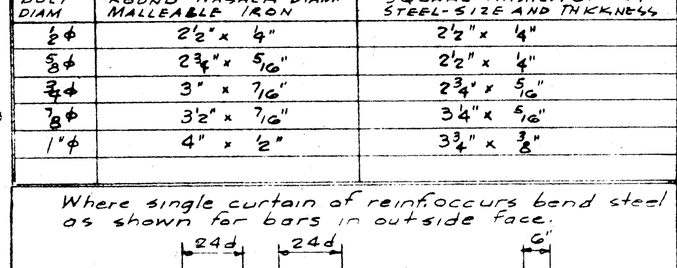
BOLT DIAM.	ROUND WASHER DIAM. MALLEABLE IRON	SQUARE WASHER OR CUT STEEL - SIZE AND THICKNESS
1/2" ø	2 1/2" x 1/4"	2 1/2" x 1/4"
5/8" ø	2 3/4" x 5/16"	2 1/2" x 1/4"
3/4" ø	3" x 7/16"	2 3/4" x 5/16"
7/8" ø	3 1/2" x 7/16"	3 1/4" x 5/16"
1" ø	4" x 1/2"	3 1/2" x 3/8"











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 extend at least 1'-6" into natural undisturbed grade or below finish grade whichever is lower.
4. No brick or porous material shall be used to support footing steel off the ground.
5. All concrete shall have a minimum ultimate compressive strength of 2000 #/in.² at 28 days unless otherwise noted.
6. Anchor bolts and dowels shall be securely held in place before concrete is poured.
7. Splices in reinforcing steel shall lap 30 bar diam. min. also column dowels shall lap 30 bar diam. min. unless otherwise noted. Splices and bar laps at splices 2" clear minimum but in no case less than 1½" clear except for column bar splices or dowels which shall be separated 1" min. clear. Wall steel may be wired together.
8. Reinforcing steel shall have the minimum protective conc. covering indicated below:

Footing pedestal	3"
Tie columns (main steel)	2"
Wall steel, beams, slabs, top & soffits	1½"
Joists sides, top & soffits	¾"
Slabs on fill other than walks shall be reinforced with 6"x6"/10x10 E.W. Mesh at mid depth of slab.	

9. Dowel slabs to wall as per typical details.
10. See Architectural and/or Mech. drawings for location of pipe vents, ducts and other similar openings.
11. All walls shall be doweled to supporting footing beams or pads with bars of the same size and spacing as vertical bars in walls.
12. Anchorage of dowels shall be equivalent to bar splice. If not provided for in details wall footing pad shall be 10" wider than wall width and reinf. as per typical details.
13. Deformation required for reinf. shall conform with ASTM Specn A305-50T

STRUCTURAL STEEL -

1. When stress is not given or details not shown design connections for members carrying direct stress to develop the strength of the members.
2. A.I.S.C. standard beam connections or connections of equal strength shall be used for all beam connections not shown.
3. Base plates shall be bedded on grout ¼" minimum thickness.
4. All welding shall be done by electric shielded arc process.
5. The following steel requires testing:
   - (a) No thread bearing will be permitted on bolted connections, to avoid such bearing washers or the equivalent shall be used.

TIMBER -

1. All framing lumber to be grade marked D.F. see specs.
2. Plywood CAS-48
3. Sill plates shall be bolted to concrete with 5/8ø x 12" bolts @ 4'-0" o.c. max. unless otherwise noted. At all corners, intersections and door openings place a bolt 9" max. from end of sill pieces. Splice sills as shown in detail when bolts are more than 9" from each side of joint.
4. Where sills for thens join conc. or masonry walls the end stud shall be anchored thereto with 5/8 bolts near top and bottom and at each row of blocking. Such bolts shall be embedded in the wall not less than 3" and shall be hooked.
5. Studs shall be spaced @ 16" o.c. max. and of the size shown on plans.
6. No structural members shall be cut for pipes, vents, ducts and other similar openings, except as detailed or specified.
7. Joist and rafters shall be spliced at supports only except as detailed. Splices shall not be less than 4" wide and 3/4" nails.
8. 1" inch solid blocking shall be placed between all joist and rafters at all supports and under all partitions unless otherwise detailed.
9. 2 x 3 cross bridging shall be placed between joist or rafters where spans exceed 8'-0". The distance between lines of bridging and between bridging and wall shall not exceed 8'-0". Crossbridging may be omitted for roof and ceiling joists 8" and under in depth. Solid bridging shall be placed between joist or rafters at all points of support.
10. All bolts shall be fitted with malleable iron or steel plate washers. Holes for bolts shall be bored with a bit of the same nominal diameter as the bolt.

Reinforcing Concrete

* Min. #3 above lists footing depths for Classrooms, Multi Purpose Rooms requirements are 2'-0"

LEGEND

- Existg. conc.
- Conc. in sect
- Wood blocking
- Cont. wood
- Brick in section
- Footing step
- 0'-0" Elev. at bottom of footing.
- (A S-1) section on Sheet, Sheet number.
- E.W.M. Electric welded mesh.
- Nominal finished floor elevation 0'-0" = 96.5'

BAKERSFIELD CITY SCHOOL DISTRICT
OFFICE OF SUPERINTENDENT
APPROVED (BY)
BOARD ORDER NO. 2574
RESOLUTION NO.
BOOK 1111 PAGE 1262
DATED 10-8-53
BY John F. Fermoyle

HILTMAN & NOWELL STRUCTURAL ENGINEERS ARCHITECTS BUILDING LOS ANGELES 17	STATE DIVISION OF ARCHITECTURE DATE OF APPROVAL DEC 9 1953 APPLICATION NO. 11352 APPROVED BY	ARCHITECTS WRIGHT METCALF & PARSONS Architects A.I.A. 2220 E. EIGHTH ST. PHONE 4-6248 BAKERSFIELD, CALIFORNIA DATE 10-8-53	KERN COUNTY SUPT. OF SCHOOLS APPROVED DATE
BAKERSFIELD CITY SCHOOL DISTRICT BOARD OF EDUCATION APPROVED DATE	DATE 10-8-53 DRAWN BY A.C.A. CHECKED BY A.C.A.	TYPICAL DETAILS UNITS C-D-E & F JOHN C. FREMONT SCHOOL FOR BAKERSFIELD CITY SCHOOL DISTRICT TEXAS & EIGHTH BAKERSFIELD, KERN COUNTY, CALIFORNIA	JOB NO. 2259 SHEET NO S-1