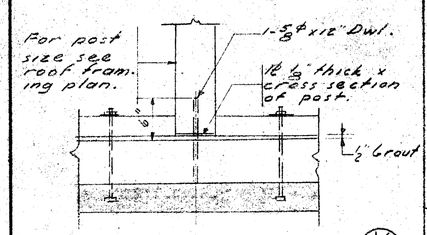
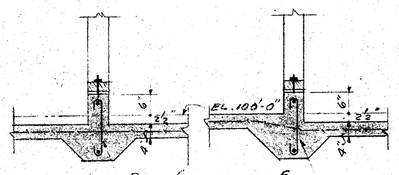
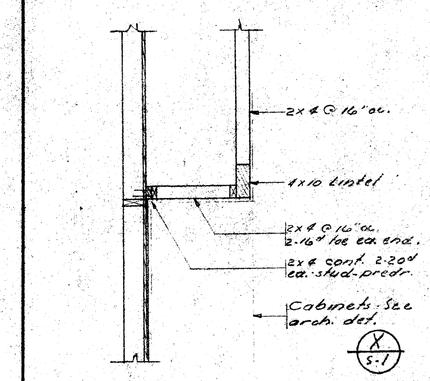


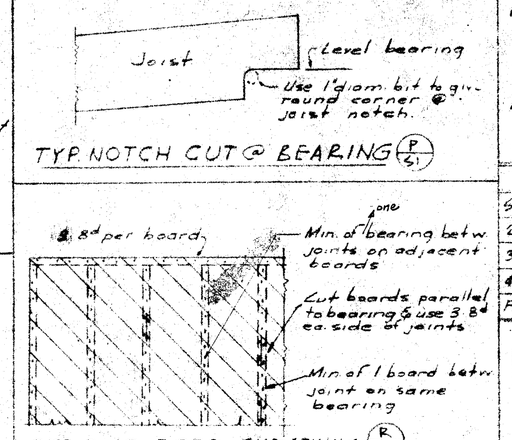
TYP. POST BASE CONN. (V S-1)



TYP. NON-BEARING TOILET RM PARTITIONS (W S-1) (W1 S-1)

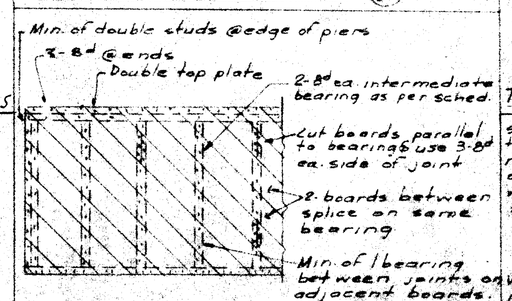


TYP. LINTEL @ CLASS'M. CABINETS (X S-1)

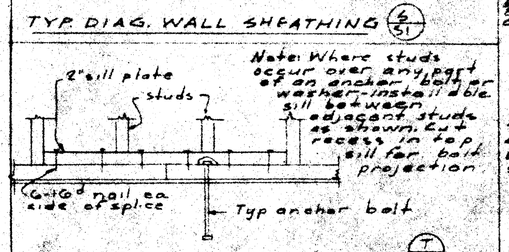


TYP. NOTCH CUT @ BEARING (P S1)

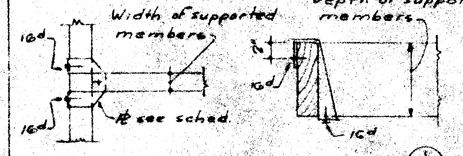
TYP. DIAG. ROOF SHEATHING (K S1)



TYP. DIAG. WALL SHEATHING (S S1)



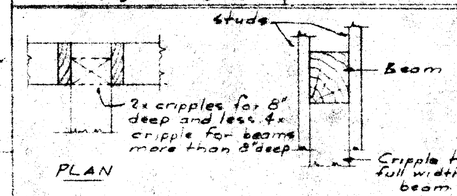
TYP. SPLICE IN SILL PLATE (T S1)



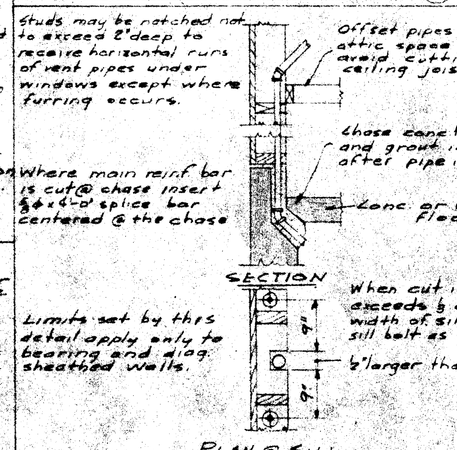
TYP. METAL JOIST HANGERS (J S1)

METAL HANGER SCHEDULE

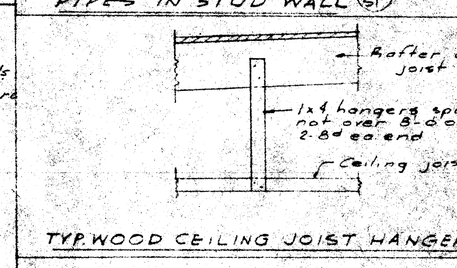
SIZE OF SUPPORTED MEMBER	SIZE OF MATERIAL
2x14 or 3x10 or less	2" x 3/16" Fe
3x14 or 4x10 or less	2 1/2" x 3/16" Fe
4x14 or 6x10 or less	2 1/2" x 1/4" Fe
For ceiling joist only use 16 ga. material 8" wide	



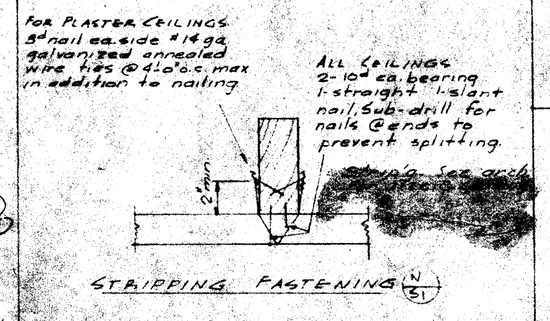
TYP SUPPORT OF BEAM AT WALL (K S1)



PIPES IN STUD WALL (L S1)



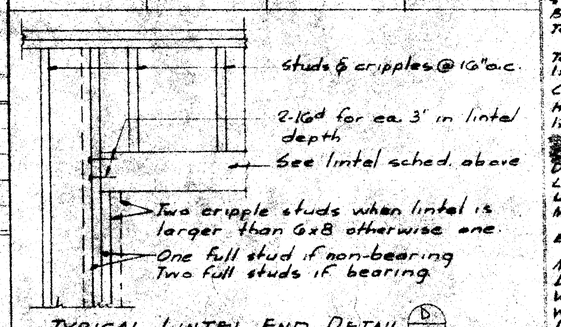
TYP. WOOD CEILING JOIST HANGERS (M S1)



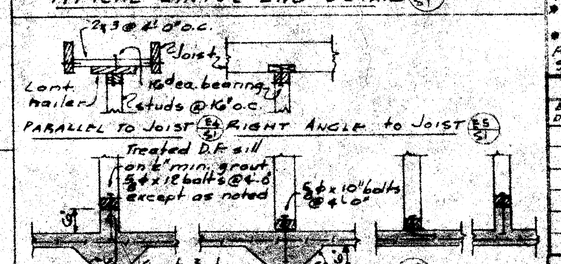
STRIPPING FASTENING (N S1)

LINTEL SCHEDULE

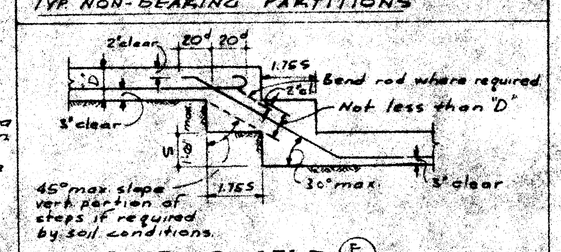
BEARING WALLS		NON-BEARING WALLS	
OPENING SIZE	LINTEL SIZE	OPENING SIZE	LINTEL SIZE
3'-0" or less	2-2x6	3'-0" or less	2-2x4
4'-0" to 7'-2"	6x6	3'-6" to 6'-0"	2-2x6



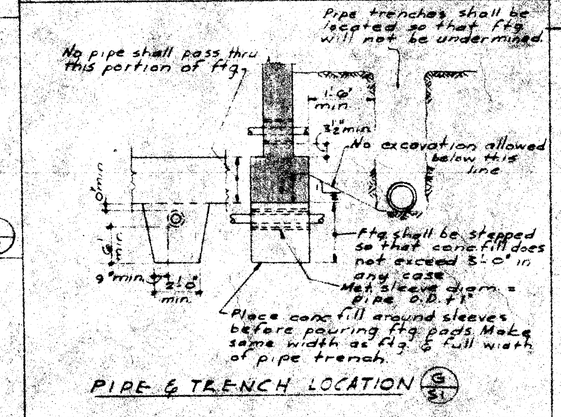
TYPICAL LINTEL END DETAIL (D S1)



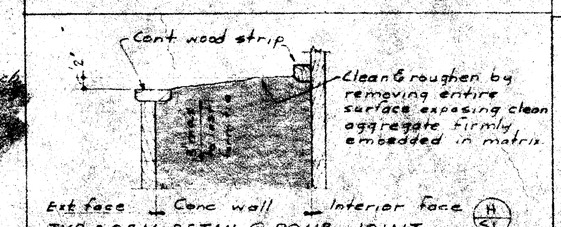
TYP NON-BEARING PARTITIONS



FOOTING STEP (F S1)



PIPE & TRENCH LOCATION (G S1)



TYP FORM DETAIL @ POUR JOINT (H S1)

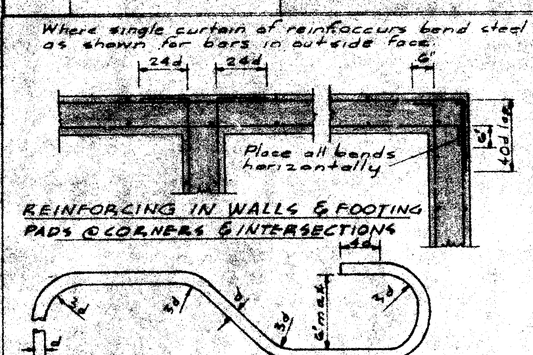
*NAILING SCHEDULE

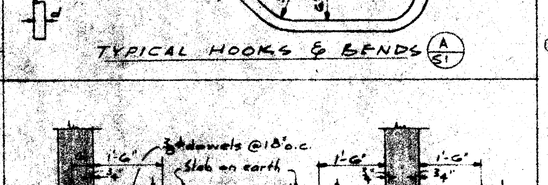
DETAIL	**NAILING
Joists or rafters to sides of studs-	
Joist depth 8" or less	3-10d
For ea. add'l inch 8" in depth of joist	1-10d
Joist or rafters to all bearings-toe nail ea. side	2-10d
studs to bearings-toe nails ea. side	2-10d
Blocking between joists or rafters to joist or rafters-toe nail ea. side 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	2-10d
1x3 ceiling strips to underside of joist. per bearing	2-8d
Bearing partitions-	2-10d
Double top plates	
Sole plate to top of studs	2-20d
Upper plate to lower plate-staggered	16d @ 18" o.c.
Multiple studs staggered for width more than	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-	
Where not blocked apart-staggered	16d @ 12" o.c.
Where blocked apart-at ea. block	2-20d
1" ribbons to studs	2-8d

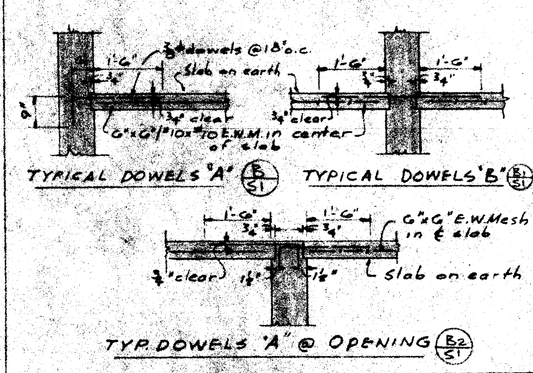
* Covers min. permissible conns. only. Refer to detail for special nailing.
** All nails shall be common wire nails. Where possible, nails driven perpendicular to the grain shall be used instead of toe nails.

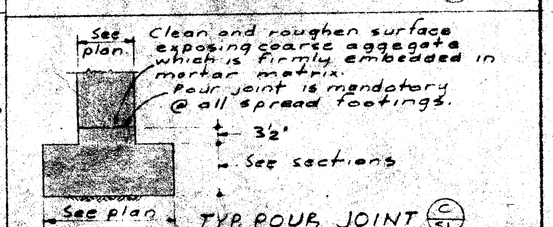
WASHER SCHEDULE

BOLT DIAM.	ROUND WASHER DIAM. MALLEABLE IRON	SQUARE WASHER OR CUT STOCK SIZE AND THICKNESS
1/2"	2 1/2" x 1/4"	2 1/2" x 1/4"
5/8"	2 1/2" x 5/16"	2 1/2" x 1/4"
3/4"	3" x 7/16"	2 1/2" x 5/16"
7/8"	3 1/2" x 7/16"	3" x 5/16"
1"	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" below natural grade or finish grade whichever is lower.
4. No brick or porous material shall be used to support footing steps 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 40 bar. diam. min. except column dowels shall lap 30 bar. diam. min. unless otherwise noted. Separate bars and bar laps at splices 2½ diam. o.c. min. 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 pads	3"	Wall steel above grade	1"
Tie columns (main steel)	2"	Slabs on fill	¾"
Spiral wrapped cols. (face of spiral)	1½"	Beams sides, top & soffits	1½"
Wall steel below grade	2"	Joists sides, top & soffits	1"

9. Slabs on fill other than walks shall be reinforced with 6"x6"/10x10 E.W. Mesh at mid depth of slab.
10. Dowel slabs to walls as per typical details.
11. See architectural and/or M&E drawings for location of pipe vents, ducts, and other similar openings.
12. All walls shall be doweled to supporting footing beams or pads by bars of the same size and spacing as vertical bars in walls.
13. Anchorage of dowels shall be equivalent to bar splice. Unless provided for in details wall footing pad shall be 10" thick and 12" in width and reink as per typical details.

STRUCTURAL STEEL

1. Where stresses are 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 3/8" min. Grout ½" minimum thickness.
4. All welding shall be done by electric shielded arc process.
5. See specs for steel requiring testing.

TIMBER

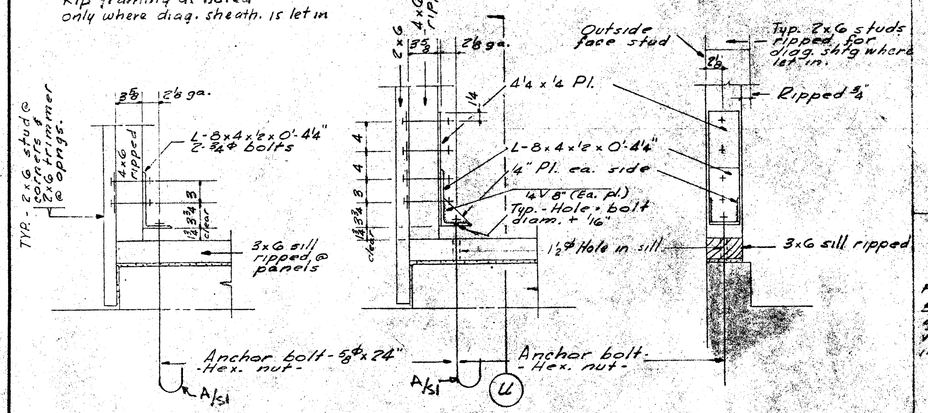
1. All framing lumber to be grade, marked D.F. see specs.
2. All sill plates shall be treated D.F. All mudsills to be set on 3/4" min. grout bed when over ½" out of level.
3. Sill plates shall be bolted to concrete with 5/8"x12" bolts @ 4'-0" o.c. max. unless otherwise noted at all corners, intersections and door openings place a bolt 6" max. from and 4" all pieces. Splices as shown in detail when regular bolts are more than 9" from each side of joint.
4. Where stud partitions 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 into wall not less than 3" and wall thickness.
5. Studs shall be spaced @ 16" o.c. and at the size shown on plans.
6. All structural members shall be cut for plumbing, 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 lap not less than 4'-0" with a min. of 8-10d nails.
8. Two inch solid blocking shall be placed between all joist and rafters at all supports and under all partitions unless otherwise detailed.
9. 2x3 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". Cross bridging 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.

Typ. 8" wall reinforcing { ½ @ 24" vertical both face; ½ @ 16' Horizontal both face

LEGEND

- Existg conc.
- Conc. in sect.
- Wood blocking
- Cont. wood
- Brick in section
- Gravel fill
- Footing step
- 0'-0" Elev. at bottom of Footing
- A / S-1 Detail letter / Sheet number
- E.W.M. Electric welded mesh
- Nominal finished Floor elevation 100'-0" = 402.25'

NOTE:
Rip framing as noted only where diag. sheath. is let in


Typ. 2x6 stud @ corners & 2-6 ga angles
26 ga.
Typ. 2x6 studs clipped for diag. sht'g where 16" o.c.
Outside face stud
4'-4" x 1'-4" Pl.
L-6 x 4 x 1'-6" x 0'-4½"
4" Pl. ea. side
4V 6 (Ea. Pl.) Typ. - Hole - bolt diam. + 1/16"
Ripped 5/8"
1½" Hole in sill
3x6 sill ripped
3x6 sill ripped @ panels
2-3/4" Hole
2-5/8" Hole
2-3/4" Hole
2-5/8" Hole
2-3/4" Hole
2-5/8" Hole