GENERAL NOTES

(APPLYING TO ALL STRUCTRUAL FEATURES OF THE WORK UNLESS NOTED OTHERWISE)

GENERAL

1. THE FOLLOWING NOTES, TYPICAL DETAILS AND SCHEDULES, SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
3. PROVIDE OPENINGS AND SUPPORTS AS REQUIRED PER TYPICAL DETAILS FOR MECHANICAL EQUIPMENT, VENTS, DUCTS, PIPING, ETC. ALL MECHANICAL EQUIPMENT TO BE PROPERLY SWAY BRACED AGAINST LATERAL FORCES.
4. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.

FOUNDTION AND EARTHWORK

FOUNDATION AND EARTHWORK SHALL BE IN ACCORDANCE WITH THE SOIL REPORT PREPARED BY GEOTECHNICAL ENGINEERING, INC., JOB NO. 4101, DATED APRIL 28, 1981.

1. PIER AND GRADE BEAM TYPE FOUNDATIONS SHALL BE USED WITH ALLOWABLE SKIN FRICTION OF 350 PSF FOR NATURAL SOIL.
2. ALL EARTHWORK, FOUNDATION CONSTRUCTION, SLAB AND PAVING SHALL BE INSPECTED BY GEOTECHNICAL ENGINEERING, INC.
3. IF GROUND WATER IS ENCOUNTERED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY CASING. THE CASING SHALL BE REMOVED JUST BEFORE CONCRETE IS PLACED. WATER AND/OR MUD SHALL BE REMOVED FROM THE SHAFTS PRIOR TO POURING OF CONCRETE.

CONCRETE

1. FOR FOUNDATIONS AND SLABS ON GRADE, ULTIMATE COMPRESSIVE CONCRETE STRENGTH AT 28 DAYS SHALL BE 2500 PSF. MAXIMUM AGGREGATE SIZE - 1½"; MINIMUM CEMENT - 5 SACKS PER YARD; MAXIMUM WATER CONTENT - 5.0 GALLONS PER SACK.
2. STRUCTURAL WALLS, SLABS, BEAMS, AND COLUMNS SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI, USING 6½ SACKS OF CEMENT PER CUBIC YARD, 1½" AGGREGATE AND A 4" MAXIMUM SLUMP.
3. TRANSIT MIXED CONCRETE SHALL CONFORM TO A.S.T.M. SPECIFICATION C-94 AND ABOVE PROVISIONS.
4. CONCRETE STRENGTH SHALL BE VERIFIED BY STANDARD CYLINDER TESTS MADE BY AN APPROVED TESTING LABORATORY. APPROVED LABORATORY DESIGN MIX MAY BE SUBSTITUTED FOR THE MIX SPECIFIED.
5. AT ALL SPLICES IN REINFORCING, LAP BARS 40 DIAMETER MINIMUM, BUT NOT LESS THAN 2'-0".
6. ALL REINFORCING STEEL TO HAVE THE FOLLOWING MINIMUM CONCRETE COVERAGE:

COVERAGE	LOCATION
3"	IN FOOTINGS WHERE POURED AGAINST EXCAVATION.
2"	IN FOOTINGS WHERE FORMED BOTH SIDES AND IN WALLS BELOW GRADE.
1"	IN WALLS SLABS AND BEAMS ABOVE GRADE.
1½"	IN COLUMNS.

7. (2) #5 MARGINAL BARS SHALL BE PROVIDED MINIMUM AROUND ALL CONCRETE WALL OPENINGS. EXTEND 2'-0" BEYOND EDGE OF OPENING EACH WAY.
8. SLAB ON GRADE SHALL BE 4" THICK, PLACED OVER EITHER 4" OF SAND, CRUSHED ROCK, OR PEA GRAVEL REINFORCED WITH WIRE MESH 6x6 - NO.10 x NO.10.
9. CONSTRUCTION JOINTS SHALL BE THOROUGHLY AIR AND WATER CLEANED AND HEAVILY ROUGHENED SO AS TO EXPOSE COARSE AGGREGATES. ALL SURFACES TO RECEIVE CONCRETE SHALL BE MAINTAINED CONTINUOUSLY WET AT LEAST THREE HOURS IN ADVANCE OF POURING.
10. ALL ANCHORS, BOLTS, INSERTS, AND ANY OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE FIRMLY SET IN POSITION BEFORE CONCRETE IS PLACED.

REINFORCING STEEL

1. ALL REINFORCING SHALL BE INTERMEDIATE GRADE BARS WITH DEFORMATIONS PER A.S.T.M. SPECIFICATION A-305; AND WELDED WIRE MESH PER A.S.T.M. SPECIFICATION A-185 SHALL BE USED.
2. AT SPLICES IN REINFORCING, LAP BARS 32 DIAMETERS IN CONCRETE, AND 48 DIAMETERS IN CONCRETE BLOCK. REINFORCING SHALL BE BENT 18" MINIMUM AROUND CORNERS IN WALLS AND PILASTERS, UNLESS NOTED OTHERWISE.
3. TO HOLD BARS IN THEIR TRUE POSITION AND PREVENT DISPLACEMENT, STANDARD TIE AND ANCHORAGE DEVICES MUST BE PROVIDED.
4. SUBCONTRACTORS ARE TO SUBMIT FOUR COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION OF ANY REINFORCING STEEL.

CONCRETE MASONRY BLOCK WALLS & PILASTERS

1. CONCRETE BLOCKS SHALL BE GRADE "A" AS SPECIFIED BY THE A.S.T.M. SPECIFICATION C-90.
2. MORTAR USED IN BLOCK WALLS SHALL BE COMPOSED OF NOT LESS THAN 1/6 PART NOR MORE THAN 1/2 PART LIME PUTTY, ONE PART PORTLAND CEMENT, AND NOT MORE THAN 4 PARTS SAND, BASED ON DRY LOOSE VOLUMES. MORTAR SHALL DEVELOP A STRENGTH OF 1500 PSI AT THE END OF 28 DAYS.
3. GROUT SHALL CONSIST OF ONE PART PORTLAND CEMENT TO NOT MORE THAN 3 PARTS SAND. PEA GRAVEL MAY BE USED, BUT THE COMBINED MIX SHALL NOT EXCEED 1:3:2. GROUT SHALL DEVELOP A MINIMUM STRENGTH OF 2000 PSI AT 28 DAYS.
4. ALL VOIDS IN PIERS SHALL BE FILLED SOLID WITH GROUT AND REINFORCED. PIERS ARE WALLS LESS THAN 6'-0" LONG (SIX FEET).
5. ALL VERTICAL CELLS, ESPECIALLY THOSE CONTAINING ANCHORS, BOLTS, DOWELS AND STRAPS, SHALL BE FILLED SOLID WITH GROUT AND RODDED TO INSURE FULL CELL FILLING.
6. REINFORCING WALLS WITH #4 @ 24" VERTICAL. PROVIDE (3) REINFORCED VERTICAL CELLS AT CORNERS WITH #4 VERTICAL. PROVIDE (1) #4 VERTICAL EACH SIDE OF OPENING, FULL HEIGHT. BOND BEAMS WITH (2) #4 HORIZONTAL BARS WILL BE PROVIDED AT 4' O.C. AND AT TOP OF WALLS. WINDOW AND DOOR OPENING 4'-0" WIDE OR MORE SHALL BE REINFORCED WITH (2) BOND BEAMS (4-#4 TOTAL) IMMEDIATELY OVER OPENINGS, BARS TO EXTEND 2'-0" EACH SIDE OF OPENING.
7. ALL HORIZONTAL STEEL SHALL BE SPLICED WITH 40 DIAMETER MINIMUM LAP OR NOT LESS THAN 2'-0" AT CORNERS AND INTERSECTIONS. ALL VERTICAL STEEL SHALL BE DOWELED INTO FOUNDATIONS WITH SAME SIZE SPACING STEEL. LAP DOWEL IN WALLS 40 DIAMETERS, VERTICALLY, MINIMUM.
8. CLEANOUTS ARE TO BE PROVIDED AT THE BOTTOM COURSE OF EACH CORE TO BE REINFORCED WHEN CORE HEIGHT IS IN EXCESS OF 4'-0". THE INSPECTOR OR ENGINEER SHALL INSPECT CELLS BEFORE CLEANOUTS ARE CLOSED. GROUT IS TO BE STOPPED 1½" BELOW TOP OF MASONRY UNITS WHEN GROUT POUR IS STOPPED FOR ONE HOUR OR LONGER.

MISCELLANEOUS & STRUCTURAL STEEL

1. ALL STEEL IS TO BE A.S.T.M. A-36 STEEL, OR BETTER, USING A.I.S.C. CODE OF PRACTICE AND A.W.S. SPECIFICATION FOR WELDING.
2. ALL STEEL SHALL BE PAINTED ONE SHOP COAT AND FIELD TOUCHED UP WITH RED LEAD AS NECESSARY.
3. SUBCONTRACTORS ARE TO SUBMIT FOUR COPIES OF SHOP DRAWINGS INCLUDING PROPOSED DESIGN AND DETAIL ALTERNATIVES.

CARPENTRY

1. BEAMS, GIRDERS, JOISTS, RAFTERS, POSTS AND MULLIONS SHALL BE DOUGLAS FIR (COAST REGION) GRADED AS FOLLOWS, UNLESS NOTED DIFFERENTLY IN THE DRAWINGS:

TIMBER CONSTRUCTION DESIGN CRITERIA WITH NEW 1970 LUMBER GRADING RULES

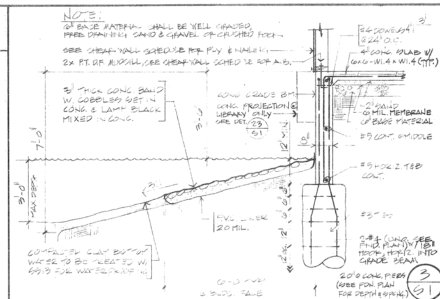
USE	GRADE	F	E x 10
STRUC LIGHT FRAMING (4 x 4)	DENSE NO.2	1450 1250	1.7 1.7
STRUC. JOISTS & PLANKS & RAFTERS	DENSE NO. 2	1450 1250	1.7 1.7
LIGHT FRAMING & STUDS (4 x 4)	CONSTR. GRADE STAND. GRADE	1050 600	1.5 1.5
BEAMS & STRINGERS	DENSE SEL. STRU. DENSE NO. 1	1900 1550	1.7 1.7
POST & TIMBERS	DENSE NO. 1	1400 1200	1.7

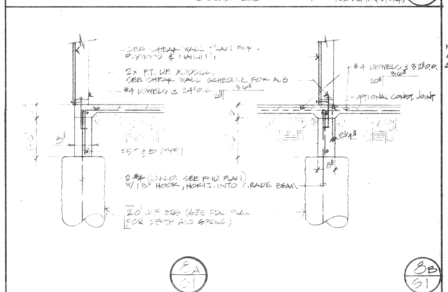
2. SILL PLATES ON CONCRETE SHALL BE 2" NOMINAL REDWOOD OR PRESSURE TREATED D.F. SILL PLATES SHALL BE BOLTED TO THE CONCRETE WITH 5/8" x 10" BOLTS @ 48" O.C. TYPICAL. BOLTS SHALL BE PLACED NOT MORE THAN 9" FROM ENDS OF PIECES.
3. PROVIDE (2) FRAMING CLIPS TOP AND BOTTOM OF ALL POSTS, MULLIONS AND DOUBLED STUDS AT EDGES OF OPENINGS. HEAVIER STEEL PLATE POST TO BEAM, OR TO FOUNDATIONS ARE TO BE INSTALLED AS SPECIFIED IN THE DRAWING DETAILS.
4. WHERE STUD WALLS ABUT MASONRY WALLS, END STUD SHALL BE 3 X MEMBER AND BOLTED TO MASONRY WITH 1/2" x 10" BOLTS @ 2'-8" O.C. AND 6" FROM TOP AND BOTTOM.
5. PROVIDE SOLID BLOCKING BETWEEN JOISTS @ 7'-0" O.C. MAXIMUM.
6. WHERE PLYWOOD IS USED ON ROOF OR FLOOR, SHEETS SHALL BE LAID PERPENDICULAR TO DIRECTION OF JOISTS. PLYWOOD SHEETS SHALL BE STAGGERED. MINIMUM AREA OF SHEET: 16 SQ. FT. ALL PLYWOOD IS TO BE D.F. STRUCTURAL II GRADE (OR EXTERIOR USE C-C OR C-D GRADE), GRADE MARKED BY D.F.P.A.
7. WHERE INDICATED, EDGES OF PLYWOOD SHEETS NOT NAILED TO STUDS, JOISTS OR SOLID BLOCKING SHALL BE BLOCKED AND NAILED TO 2 X 4 FLAT WITH PERIMETER NAILING, UNLESS TONGUE AND GROOVE PLYWOOD IS USED.
8. BOLTS BEARING ON WOOD SHALL HAVE STANDARD CAST IRON OR MALLEABLE IRON WASHERS. BOLT HOLES SHALL BE DRILLED 1/16" LARGER THAN BOLT DIAMETER. THREADS SHALL NOT BEAR ON WOOD.
9. LAG SCREWS SCREW INTO PREDRILLED HOLES SAME DIAMETER AS ROOT OF THREAD. ENLARGED TO SHANK DIAMETER FOR LENGTH OF SHANK.
10. METAL FRAMING DEVICES SHALL BE AS MANUFACTURED BY SIMPSON OR TIMBER ENGINEERING CO., OR APPROVED EQUAL OR AS INDICATED AS OTHERWISE.
11. NAILING FOR FRAMING SHALL BE WITH COMMON NAILS, NUMBER AND SIZE AS FOLLOWS, EXCEPT AS NOTED ON PLANS AND DETAILS.
12. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN 1/2 OF THEIR LENGTH, NOR CLOSER TO THE EDGE OF MEMBER THAN 1/4 THEIR LENGTH, EXCEPT FOR SHEATHING. PENETRATION 1/2 LENGTH OF NAIL MINIMUM.
13. NAILING NOT NOTED BELOW OR ON PLANS AND DETAILS SHALL BE A MINIMUM OF (2) NAILS PER CONTACT, (8D) FOR 1" MATERIAL AND (16D) FOR 2" MATERIAL.

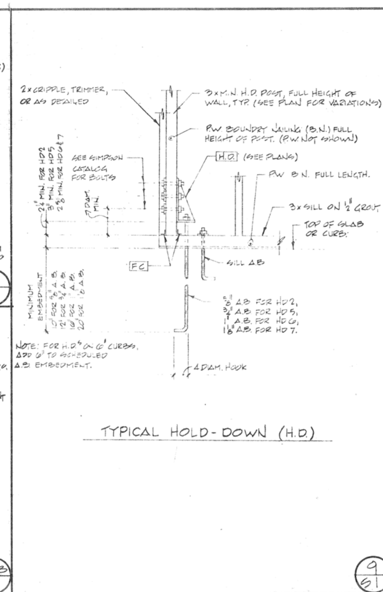
JOIST AT ALL BEARINGS	TOE NAILS EACH SIDE	(2)-10D
STUDS TO BEARING	TOE NAILS EACH SIDE	(2)-10D
BLOCKING BETWEEN JOISTS	TO JOIST BEARING, TOE NAIL EA SIDE	(2)-10D
BLOCKING BETWEEN STUDS	EACH END, TOE NAIL OR	(2)-10D
	END NAIL	(2)-16D
SHEATHING AT ALL BEARINGS	3/8" PLYWOOD: AROUND EDGES OF SHEETS	8D @ 6" OR 8D @ 4"
	AT INTERMEDIATE BEARINGS	8D @ 12"
	1/2" & 5/8" PLYWOOD: AROUND EDGES OF SHEETS	10D @ 6" OR 10D @ 4"
	AT INTERMEDIATE BEARINGS	10D @ 12"
RIBBONS TO STUDS	1" RIBBONS	(2)-8D
DOUBLE TOP PLATES	LOWER PLATE TO TOP OF STUD	(2)-20D
	UPPER PLATE TO LOWER PLATE, STG'D	16D @ 12"
	UPPER PLATE TO LOWER PLATE, AT INTERSECTION	(3)-16D
MULTIPLE STUDS OR JOISTS	STAGGER FOR WIDTH MORE THAN 4"	16D @ 12"
BUILT-UP BEAMS	10" OR MORE, STAGGERED	1/2" BOLTS @ 24" O.C.
DOUBLE JOISTS UNDER - PARTITIONS	WHERE NOT BLOCKED APART, STG'D	16D @ 12"
	WHERE BLOCKED APART, AT EA BLOCK, EACH SIDE	(2)-16D

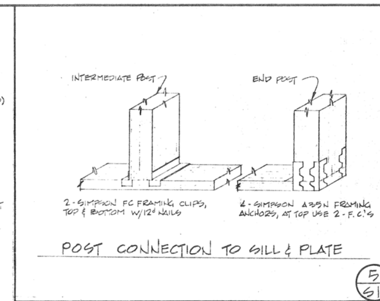
GLUED - LAMINATED BEAMS

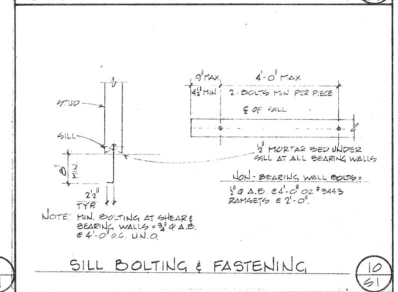
1. ALL GLUED - LAMINATED BEAMS SHALL BE DOUGLAS FIR (COAST REGION), COMBINATION A 2400F, ARCHITECTURAL APPEARANCE GRADE.
2. THE MANUFACTURING OF THE GLUED LAMINATED BEAMS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION. (A.I.T.C.)
3. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH A.I.T.C. INSPECTION CERTIFICATES.
4. THE BEAMS SHALL BE END SEALED AND LOAD WRAPPED FOR PROTECTION DURING SHIPMENT.
5. THE BEAMS SHALL BE CAMBERED WITH STANDARD RADIUS AS CALLED FOR ON THE DRAWINGS.

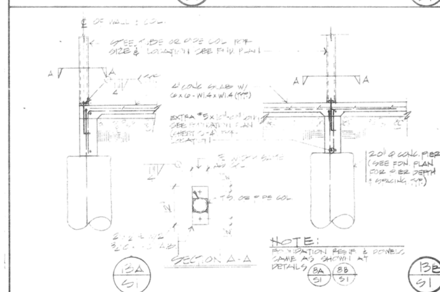


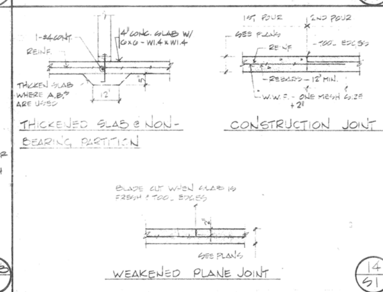


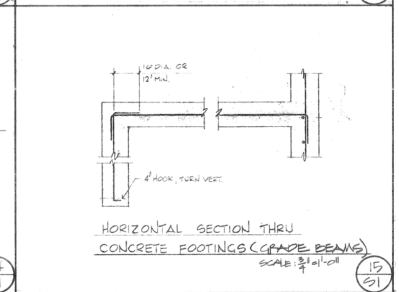


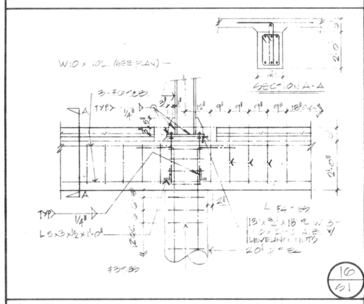


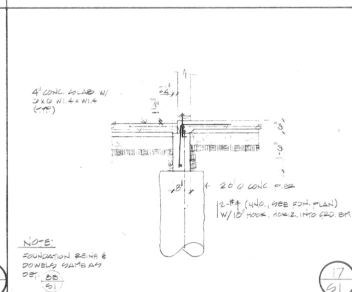


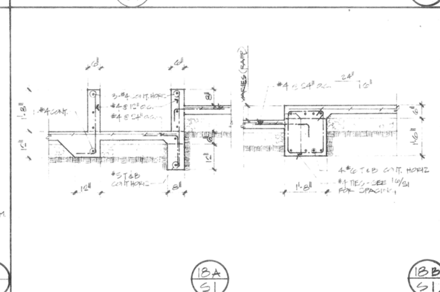


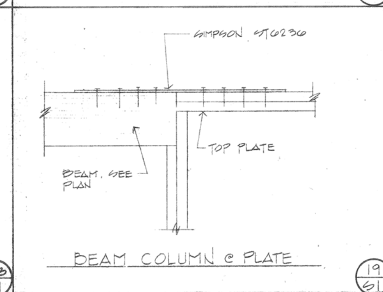


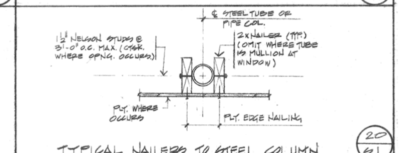


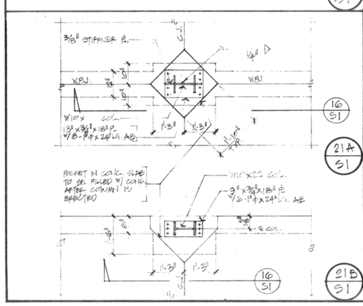


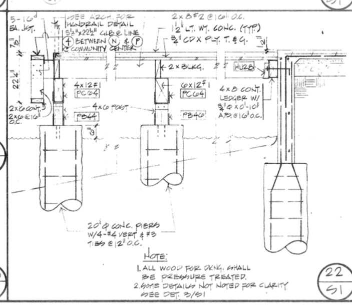


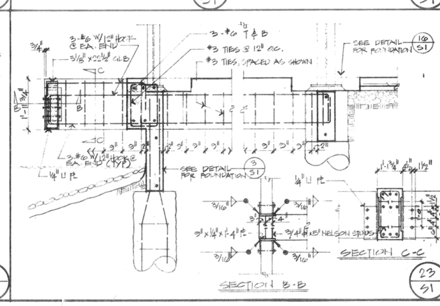


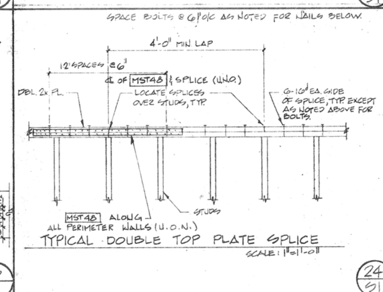


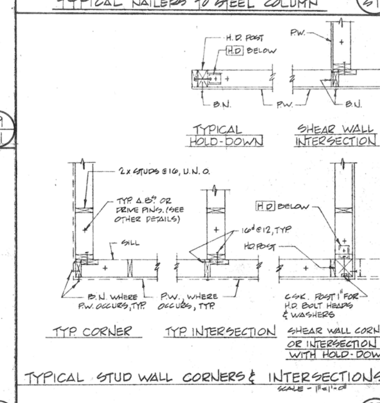












SCALE: ½" = 1'-0" TYPICAL (U.N.O.)

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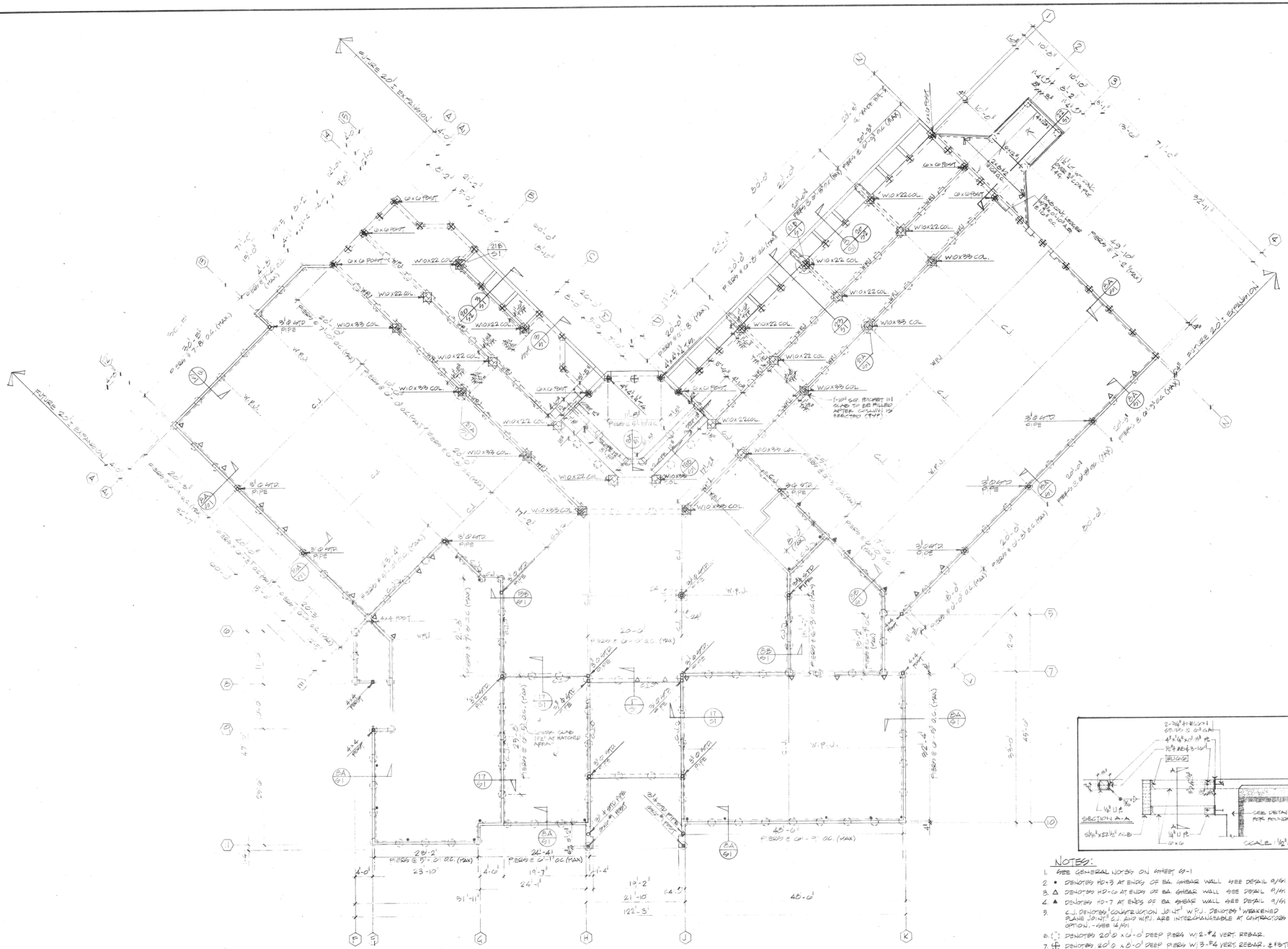
GENERAL NOTES & STRUCTURAL DETAILS

JOB	SHEET	DATE	REV
	S1	8-4-81	



NOTES:

1. SEE GENERAL NOTES ON SHEET S-1
2. • DENOTES HD-5 AT ENDS OF BA. SHEAR WALL SEE DETAIL 9/S1
3. △ DENOTES HD-6 AT ENDS OF BA. SHEAR WALL SEE DETAIL 9/S1
4. ▲ DENOTES HD-7 AT ENDS OF BA. SHEAR WALL SEE DETAIL 9/S1
5. C.J. DENOTES "CONSTRUCTION JOINT" W.P.J. DENOTES "WEAKENED PLANE JOINT" C.J. AND W.P.J. ARE INTERCHANGEABLE AT CONTRACTORS OPTION. - SEE 14/S1
6. ◯ DENOTES 20'Ø x 6'-0" DEEP PIERS W/2-#4 VERT. REBAR.
7. ⊕ DENOTES 20'Ø x 8'-0" DEEP PIERS W/3-#4 VERT. REBAR. & #3 TIES @ 12" O.C.
8. ◌ DENOTES 24'Ø x 9'-0" DEEP PIERS W/4-#5 VERT. REBAR. & #3 TIES @ 12" O.C.
9. PIER DEPTH INDICATED SHALL BE BELOW PRESENT GROUND SURFACE.

FOUNDATION PLAN
LIBRARY

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

N

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JOB	SHEET	DATE	REV
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FOUNDATION PLAN
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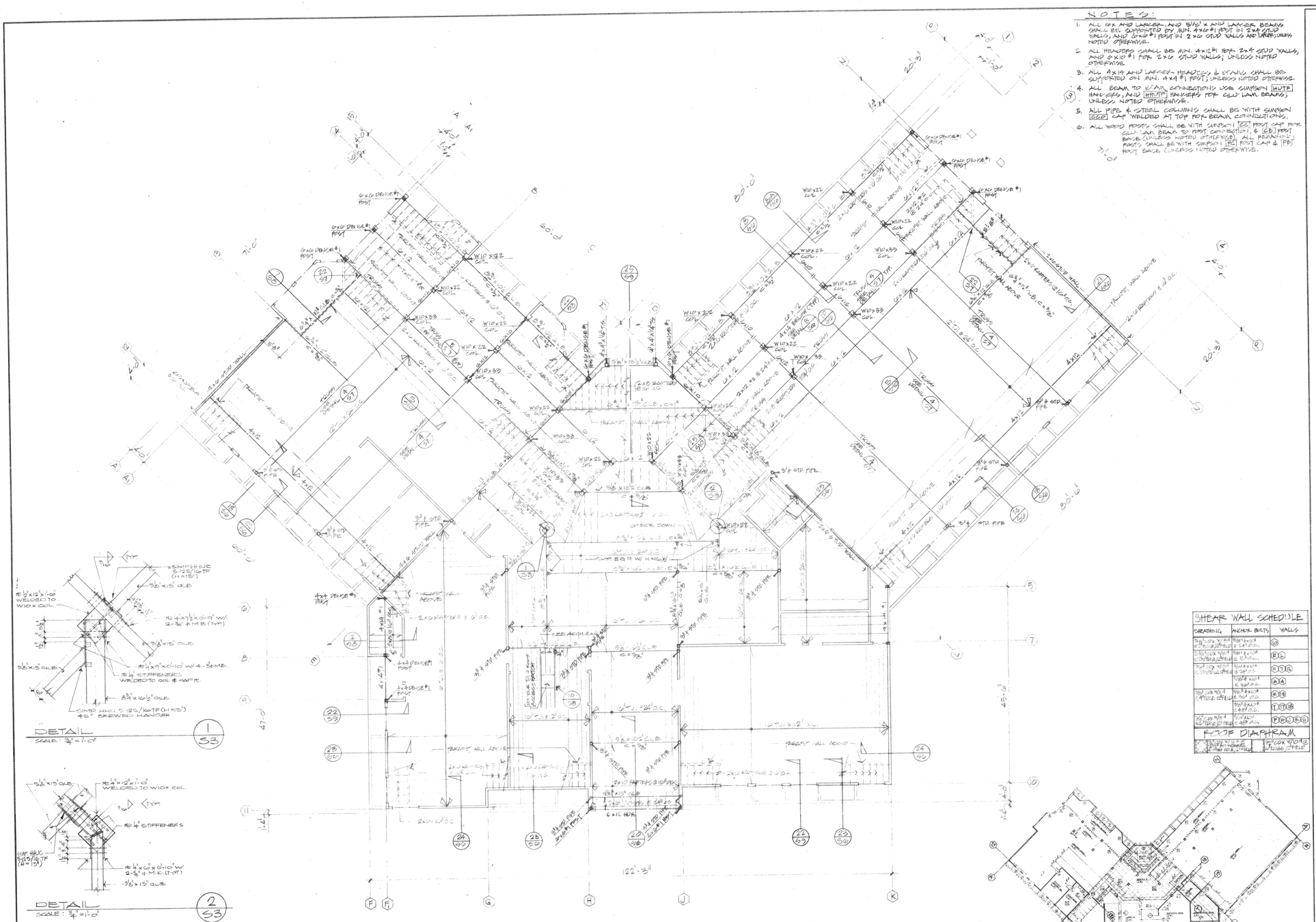
NOTES:

1. ALL 6X AND LARGER, AND 5½" X AND LARGER BEAMS SHALL BE SUPPORTED BY MIN. 4X6 #1 POST IN 2X4 STUD WALLS, AND 6X6 #1 POST IN 2X6 STUD WALLS AND LARGER, UNLESS NOTED OTHERWISE.
2. ALL HEADERS SHALL BE MIN. 4X12 #1 FOR 2X4 STUD WALLS, AND 6X10 #1 FOR 2X6 STUD WALLS, UNLESS NOTED OTHERWISE.
3. ALL 4X14 AND LARGER HEADERS & BEAMS SHALL BE SUPPORTED ON MIN. 4X4 #1 POST, UNLESS NOTED OTHERWISE.
4. ALL BEAM TO BEAM CONNECTIONS USE SIMPSON HUTF HANGERS, AND HHUTF HANGERS FOR GLU. LAM. BEAMS, UNLESS NOTED OTHERWISE.
5. ALL PIPE & STEEL COLUMNS SHALL BE WITH SIMPSON CAP WELDED AT TOP FOR BEAM CONNECTIONS.
6. ALL WOOD POSTS SHALL BE WITH SIMPSON PC POST CAP FOR GLU. LAM BEAM TO POST CONNECTION, & BC POST BASE UNLESS NOTED OTHERWISE. ALL BRACING POSTS SHALL BE WITH SIMPSON PC POST CAP & PB POST BASE UNLESS NOTED OTHERWISE.



TJI JOISTS: (OR EQUAL)

1. TRUSS-JOISTS MANUFACTURER SHALL PROVIDE CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION OF TJI (THE 35 SERIES SHALL BE USED)
2. ROOF TJI DESIGN LOADS:
   TL = 24 PSF LL = 20 PSF & CONCENTRATED LOAD FROM TILE MANSARD FRAMING DL = 20 PSF LL = 20 PSF.

WOOD TRUSSES:

TRUSSES SHALL BE GLULAMINATED TIMBER - DOUGLAS FIR AND WESTERN LARCH COMBINATION 24F-V4. THE MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT PRIOR TO FABRICATION OF TRUSSES.
TRUSS MANUFACTURER SHALL PURNISH AND INSTALL LATERAL BRACING ADQUATE TO PROPERLY ALIGN TRUSSES. TRUSSES SHALL BE ADEQUATELY CAMBERED TO COMPENSATE FOR DEAD LOAD DEFLECTION.

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ROOF FRAMING PLAN
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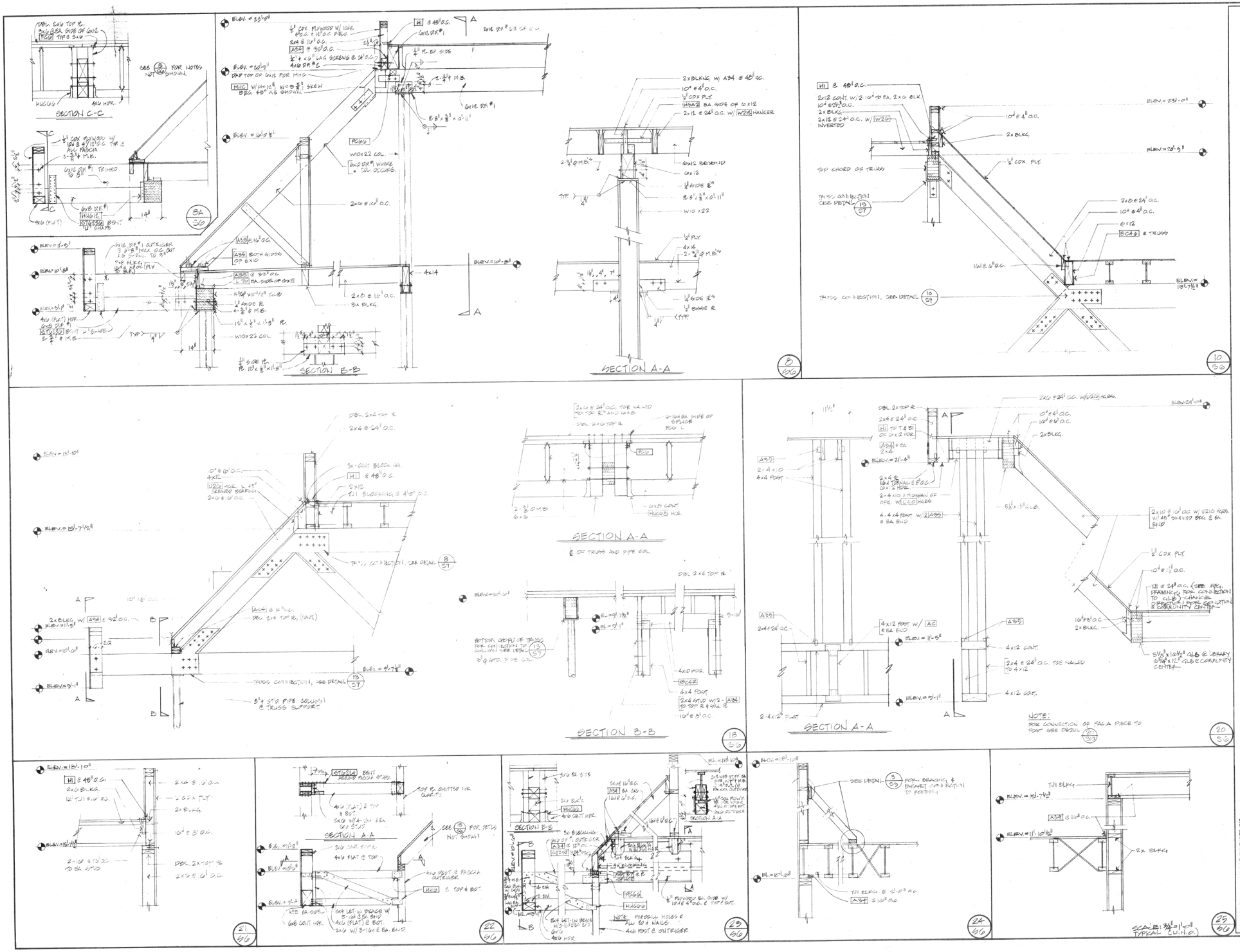

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STRUCTURAL DETAIL SECTIONS
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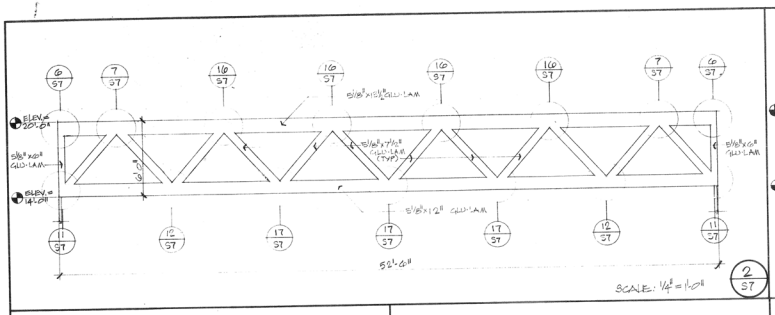
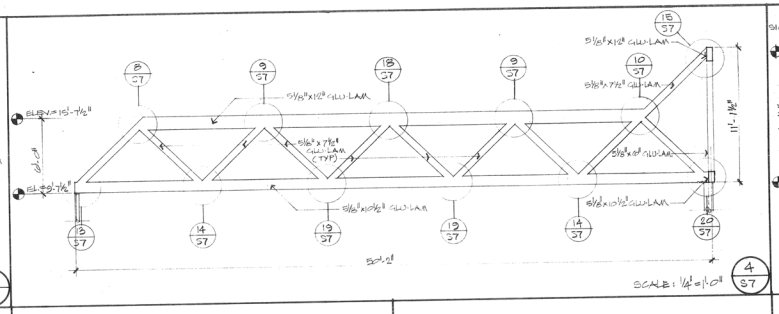
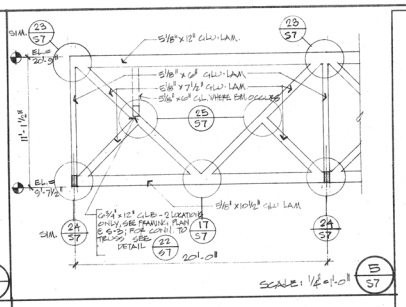
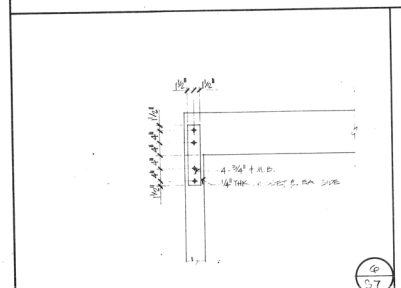
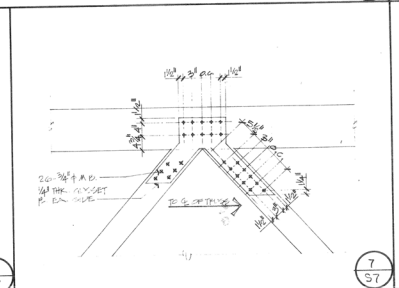
	S6	6-4-81	

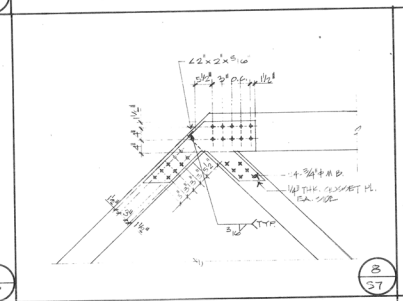


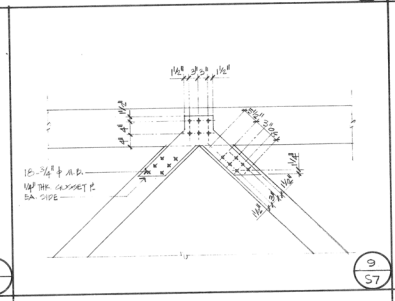


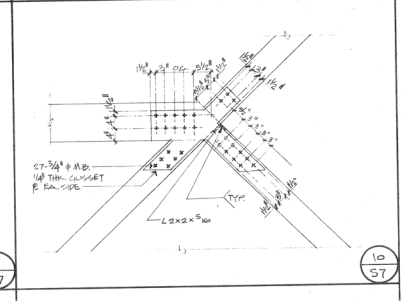


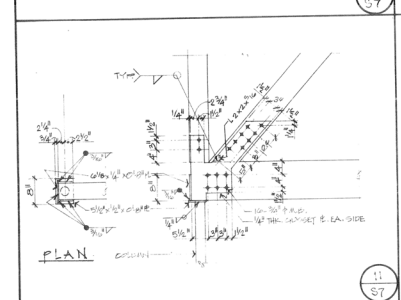


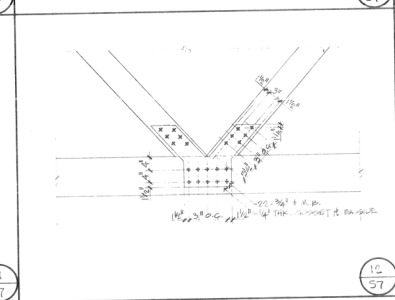


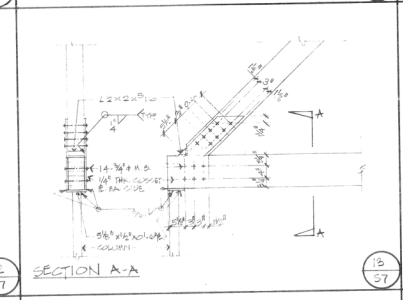


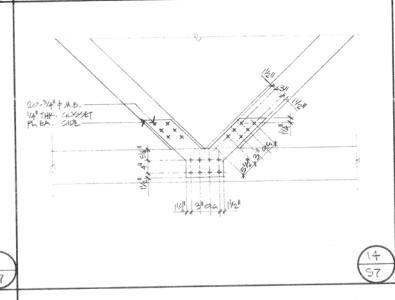


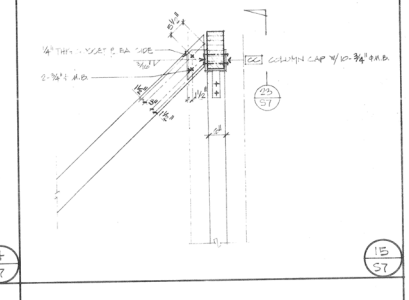


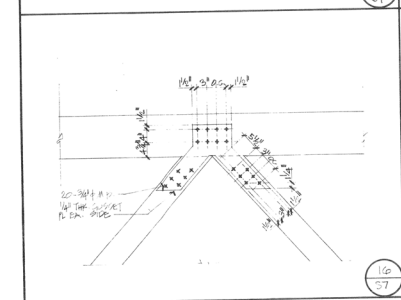


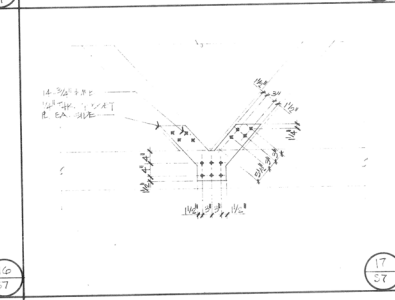


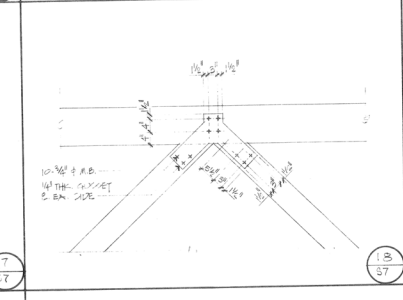


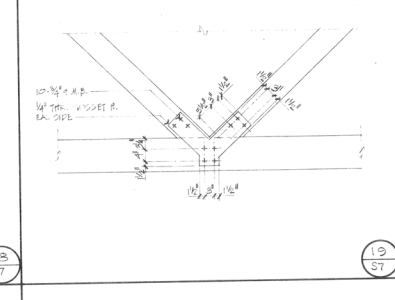


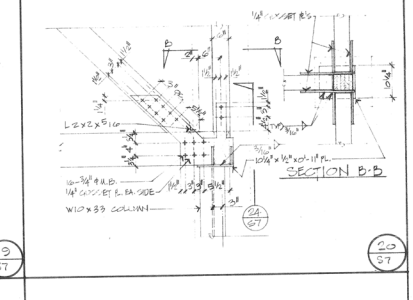


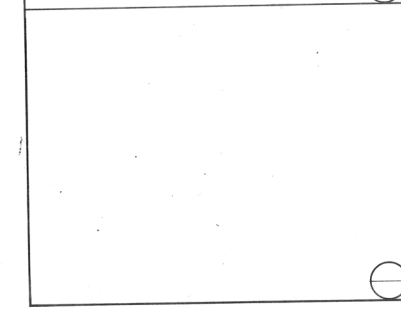


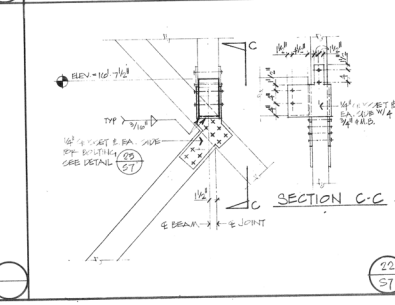


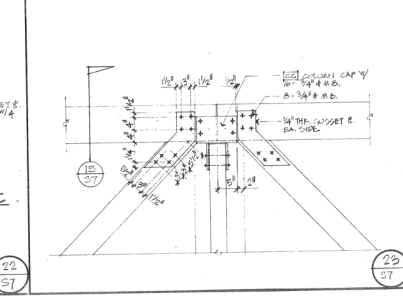


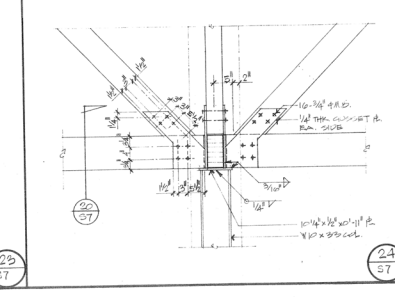


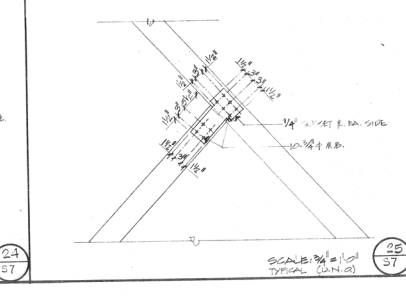












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TRUSSES

LIBRARY and COMMUNITY BUILDINGS
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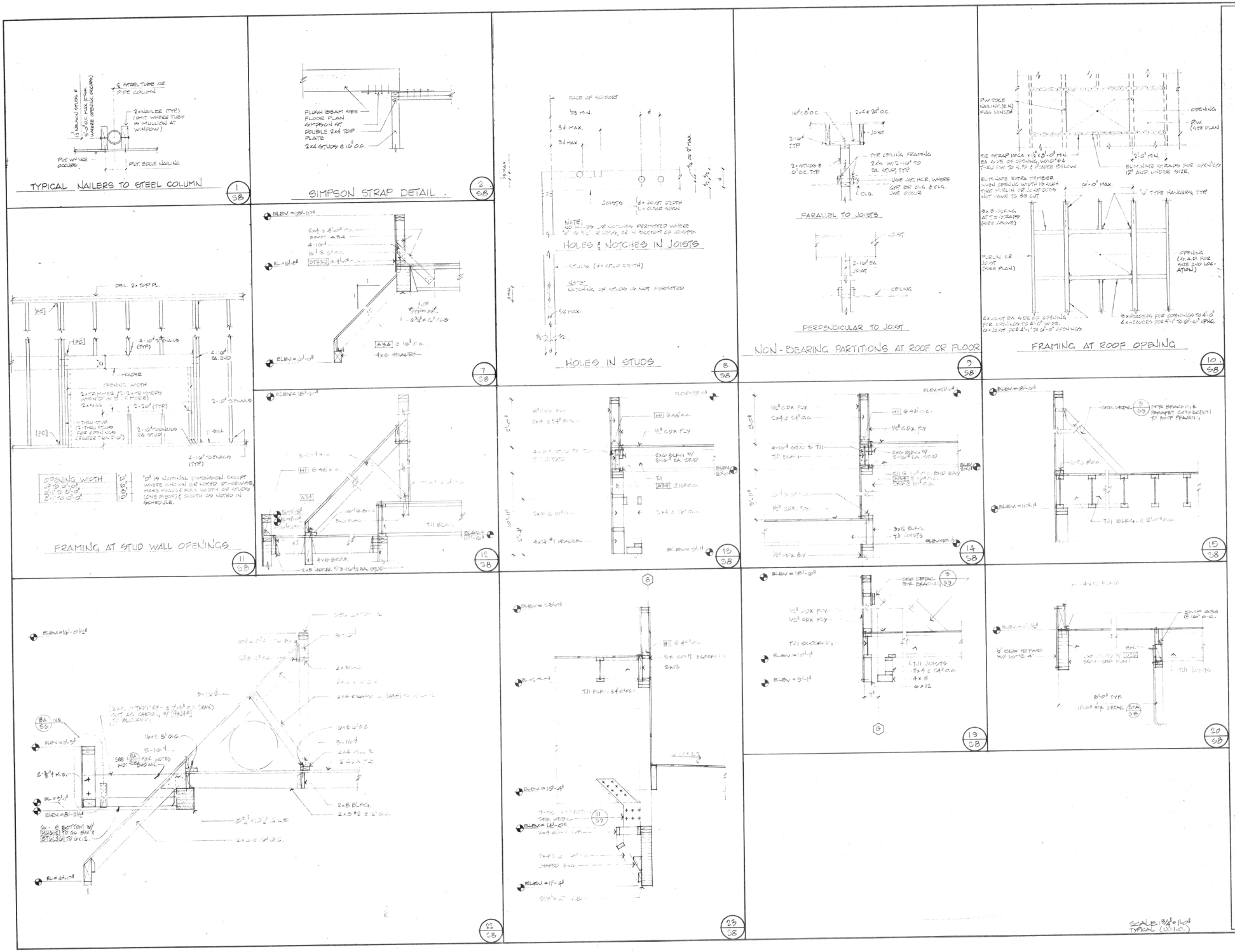
455 E. CALAVERAS BLVD. MILPITAS, CALIF.

GOODWIN B. STEINBERG ASSOCIATES
ARCHITECTS
1737 N. FIRST ST. SUITE 475, SAN JOSE, CALIFORNIA 295-5446



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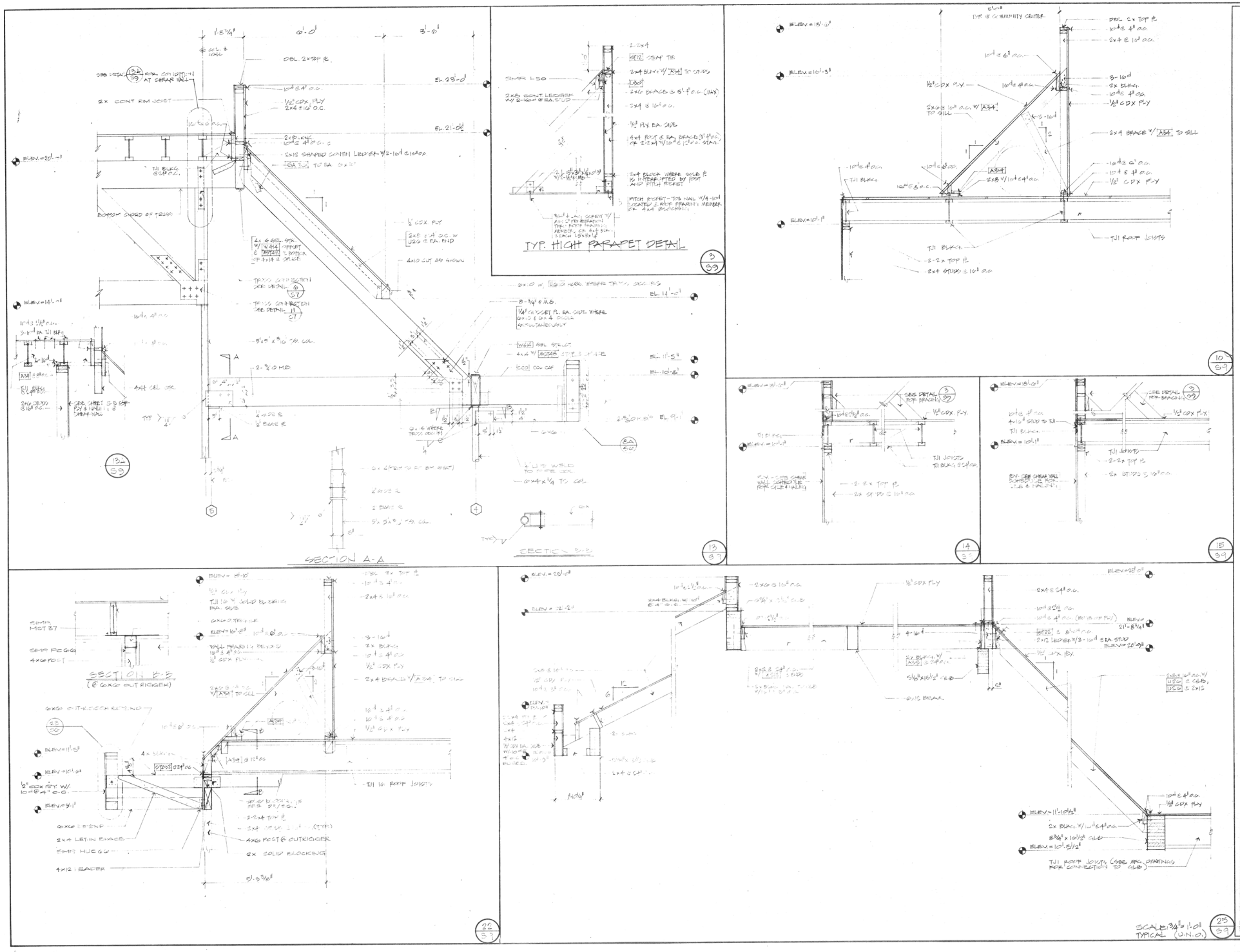

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