SITE WORK

1. All site work shall be by Bakersfield City School District.
2. See Sheet A/1 and A/6 for all site utilities and paving work.
3. All buildings shall set level and BE CONTINUOSLY SUPPORTED W/AC LEVELING BED
4. A.C. paving shall be placed by Bakersfield City School District at ramps and at perimeter of buildings to provide positive drainage away from building.
5. All buildings shall be anchored with 1" Ø x 15" lg galvanized steel pipe at max. 10' o/c. See Detail 23/A4.
6. Set all closure trim after buildings are level and true with all mechanical/electrical/plumbing in place.

WOOD

1. Bolt holes in wood shall be 1/32" oversize.
2. Standard cut washers shall be used under all head and nuts bearing on wood unless otherwise shown.
3. Place 2" solid blocking between joists/rafters over all supports, except where joists or rafters rest on a let-in ribbon.
4. Place continuous 2 x 3 cross bridging or solid blocking for rafters more than 8" deep at 10'-0" o/c maximum and for joists more than 4" deep at 8'-0" o/c or use approved metal "x" bridging at same spacing.
5. In stud walls, staggered blocking 2" thick and the width as the studs shall be provided at 10'-0" o/c vertically. Staggered blocking not required where splice blocking for plywood is used.
6. See details and specs for trussed rafters where occurs.
7. All framing lumber shall be grade marked Douglas Fir, West Coast Region, as called by drawings.
8. All bolts shall be retightened prior to the application of sheathing, plaster, etc.
9. Provide 30# felt under all plywood exterior siding - unless noted otherwise.
10. Block at +4' each side doors - typical.

NAILING SCHEDULE

Nailing for framing shall be common wire nails, number and size as follows, except as otherwise noted on Plans. Nails shall not be driven closer together than 1/2 their length nor closer to the edge of member than 1/4 their length. Holes shall be bored for the nails where necessary to prevent splitting. Penetration shall be PER UBC TABLE 25G

1. Joist or rafters to sides of studs
   8" joists or less....................3-16d
   For each additional 4" in depth of joists..........1-16d
2. Joists or rafters at all bearings, toenail each side....................2-10d
3. Studs to bearings, toenail each side 2x4,2-10d
   2x6,3-10d
   2x8,4-10d
4. Blocking between joists, studs or rafters
   To joist, stud or rafter, toenail ea. side,ea. end...2-10d
   In place of toenails one end-joist, stud or rafter to end of blocking....................2-16d
   To joist or rafter bearing (plates) toenail ea.side..2-10d
   Vertical blocking to side of horizontal blocking.....2-16d
5. Sheathing at all bearings (including blocking and Herringbone bridging)
   1 x 6 sheathing....................2-8d
   2 x 6 T & G Sheathing....................2-16d
   1 x 8 sheathing....................3-8d
6. Sheathing at ends of boards
   1 x 6 sheathing....................3-8d
   2 x 6 T & G sheathing....................3-16d
   1 x 8 sheathing....................4-8d
7. Herringbone blocking, toenail each end....................2-10d
   Cross bridging between rafters, toenail ea. end........2-8d
8. Ribbons to stud - 1" ribbon....................2-10d
   2" ribbon....................2-16d
9. Double top plates
   Lower plate to top of studs - 2x4,2-16d;2x6,2-16d;2x8,3-16d
   Upper plate to lower plate, staggered......16d at 16"O.C.
   Upper plate to lower plate, at splice/4'0" min lap..8-16d
10. Multiple studs, staggered for width more than 4"....................16d at 16"O.C.
11. Multiple studs, at corners and intersecting (at contact)....................16d at 12"O.C.
12. Built-up beam over window and door openings and multiple roof joists, each side staggered....................16d at 10"O.C.
    Beams 10" or less in depth, each side, staggered....................16d at 12"O.C.
    Beams more than 10" deep...1/2" bolts at 24"O.C. staggered
13. Finish plywood nailing (non-structural)
    All edges................6d finish nails at 6" o.c.
    Intermediate (field nailing).........6d finish nails at 12" o.c.
14. Ceiling stripping
    1" thick....................2-8d (1-slant)
    1" thick, with plaster
    1-8d stronghold type annular nail (10 ga. x 2-1/2")
    2" thick....................2-16d(1 slant)
    2" thick, with plaster
    1-16d stronghold type annular nail(8 ga. x 3-1/2")

    Holes shall be pre-drilled for nails at ends of stripping board. One (1) stronghold type annular nails may be used in lieu of two (2) common nails.

Nailing not noted above or on plans shall be a minimum of two (2) common nails at each contact, 8d for 1" material and 16d for 2" materials.

GENERAL

1. The contractor shall verify all dimensions, conditions and elevations prior to starting work, the architect shall be notified immediately of discrepancies.
2. Notes and details on drawings shall take precedence over these general notes.
3. The typical details shown on this sheet shall apply in all cases unless specifically shown otherwise. Where no detail is shown, construction shall be as shown for other similar work.
4. It is the intention of these drawings to provide for the following continuities:
   a. All roof struts shall be continuously connected for the full length of the roof system.
   b. All wall bracing shall be connected to the roof.
   c. All masonry and/or concrete walls shall be positively anchored to the roof system at maximum intervals of 4'-0" l/c. (200#/lf min.)
5. Design Loads: Dead

Roof		Floor	
a. COMP SHINGLES	2.1#/SF	a. VA TILE	1.5#/SF
b. 1/2" PLYWOOD	1.5#/SF	b. PLYWOOD 1 1/8"	3.4#/SF
c. 15 # FELT	0.5#/SF	c. TRUSSES	1.0#/SF
d. TRUSSES	2.7#/SF	d. INSUL. R-19	0.4#/SF
e. R-30 INSUL	0.6#/SF	e. MISC.	1.2#/SF
f. 3/8" PLYWOOD	1.1#/SF		
g. 5/8" TILE	1.0#/SF		
h. MISC.	1.0#/SF		
TOTAL	10.5#/SF	TOTAL	7.5#/SF

6. Design Loads: Live
   A = AREA IN SF

Roof	Floor	Misc.	
a. 4/12 SLOPE 16#SF	a. CLASSRM 50#/SF	a. WIND	15#/SF
		b. GRAVITY	.187G
		c. CLG	10#/SF

7. Governing Code: 1979 Uniform Building Code
8. Character of Foundation SURFACE - AC PAVING
9. Design Soil Pressure: 1000 #/s.f.
10. Extra Material Allowance:
    Contractors shall provide in his bid an allowance for the FF:
    a. 40 LF of 2x4 or 2x6 BLK'G size shape, LOCATION and placement as directed by architect.
    b. Hundred Dollars (Mtl. cost only) of misc. rough framing hardware.

The labors of items a & b shall be included in base price. Job Supt./Arch. shall keep cost accounting together in the event the above allowance for misc. steel/hardware is not used, the Owner shall be credited accordingly.

The Contract drawings and specifications represent the finished structure. Unless otherwise shown, they do not indicate the method of construction. The contractor shall supervise and direct the work and he shall be solely responsible for all construction means, methods, techniques, sequences and procedures in accordance with generally accepted construction practices, the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of the Architect to conduct construction review of the contractor's performance is not intended to include review of the adequacy of the contractor's safety measures in, on, or near the construction site.

Any support services performed by the Architect's field representatives during construction shall be distinguished from continuous and detailed inspection services which are furnished by others. These support services performed by the Architect, whether of material or work, and whether performed prior to, during or for the purpose of assisting in quality control and in achieving conformance with contract drawings and specifications, but they do not guarantee contractor's performance and shall not be construed as supervision of construction.

All work shall conform to TITLE 19, 21, & 24, CAC & LATEST construction safety requirements of OSHA and any other governmental entity having jurisdiction.

ROUGH CARPENTRY

1 GENERAL REQUIREMENTS

A. Supervision
Perform Rough Carpentry work under direction of a capable experienced foreman. Cooperate with sub-contractors and tradesmen doing work. Carefully plan and lay out work of construction.

B. Cutting
Under this section, have skilled mechanics do cutting and framing of wooden members required to accommodate structural members, routing of piping, conduit, ducts, and installation of mechanical, electrical, or other apparatus or equipment. Cutting must be approved by Architect and Structural Engineer.

C. Framing
Provide necessary shoring, bracing, or temporary structural units required to properly and safely construct framing indicated and specified. Accurately saw-cut lumber and timber framing and fit into respective positions, and securely nail, spike, lag screw, or bolt together as indicated, specified or directed.

D. Nailing
Conform to nailing schedules shown and to Building Code.

2 MATERIALS

A. Structural and Framing Lumber
Provide Douglas Fir structural and framing lumber graded in accordance with "Standard Grading and Dressing Rules of West Coast Lumber Inspection Bureau," No. 16, latest edition.

B. Grade Marking
Each piece of structural and framing lumber must bear official grade mark of association under whose rules it was graded. Association performing grading and grade marking of lumber must be acceptable to Architect, Structural Engineer, and Owner. Minimum grading shall be as follows:

1. 2 x 4 studs, blkg. bridging, in non-bearing partitions....................No. 2
2. 2 x 6 studs, blkg. bridging, rafters and ceiling joists....................No. 2
3. 4 x 4 posts and headers....................No. 1
4. 4 x 6 and larger beams and posts..........No. 1
5. Floor joists....................No. 1
6. Sills--pressure treated Douglas Fir........No. 2

C. Sizing
Provide S4S lumber, dressed to standard sizes of association under which it is graded unless otherwise indicated rough sawn, textured, etc.

D. Seasoning
Provide lumber dried to a maximum moisture content of 19% or less before use.

E. Pressure Treated Lumber
Pressure treat in accordance with American Wood Preserver's Association Manual of Recommended Practice, "Standard for Preservation Treatment by Pressure Process--All Timber Products, D1-61." Use preservative complying with "Standards for Water-Borne Preservatives P5-60". Do not use creosote. Use treated lumber for all wood bearing on concrete or masonry and within 1'-0" of the ground. Thoroughly paint newly cut surfaces with preservative material used in treatment of lumber.

F. Plywood
Softwood plywood shall be identified with the DFPA grademark of the American Plywood Association and shall meet the requirements of Product Standards PS 1-74. Types and grades as follows:

FOR 2.F. I. II. III. IV. V.
SEE BELOW.

G. Redwood Facia and Trim
Construction Heart, S4S unless indicated rough sawn, textured, etc. W/SCARF JT.

3 ROUGH HARDWARE

A. Nails
Where indicated or specified, provide ring-shank annular-grooved nails as manufactured by Independent Nail Corporation, Colorado Fuel and Iron Corporation, or equal, elsewhere, provide common wire nails.

B. Bolts
ASTM A-307. Holes for bolts shall be true to line and 1/32" larger in diameter than the bolt.

C. Stock Framing Connectors
"Simpson" or equal types indicated or required, galvanized. Use nails furnished by manufacturer of anchors used. Fully drive nails in all holes in anchors. Contractor shall allow an allowance of $150.00 for misc. extra framing anchors--if not used and documented, shall be credited to contract at end of job. (Labor shall be included in base bid.) This is a material allowance only.

D. Metal Cross Bridging
"Simpson Metal Bridging" manufactured by Simpson Company, "Gilbraltar Metal Products", El Monte, California, or approved equal. Nail securely to joists with 8d common wire nails driven up tight; two nails at each end of bridging member. Nails for "Contac" bridging may be 8d "Contac" nails as supplied by bridging manufacturer.

E. Felt
15 pound asphalt-saturated roofing felt.

F. Hanger Wires
8 gauge galvanized annealed steel wire.

4 NAILING

A. Use nails
or spikes of such length that, where joining one piece of lumber or timber to another, penetration of nail into second or farther piece is not less than one-half nail length, except 16d nails may be used to connect pieces of 2" nominal thickness.

B. Spacing and Drilling
Drive nails no closer than one-half their length, nor closer to edge of timber than one-quarter their length. Whenever necessary to prevent splitting, bore holes for nails or spikes, diameter of hole smaller than diameter of nail or spike.

C. Ring-Shank Annular-Grooved Nails
Provide where indicated, and for nailing plywood subflooring and underlayment, including stairs.

5 LAG SCREWS

Place lag screws by screwing and do not drive into place. Install screws with anchorage embedment in piece lagged of not less than six-tenths (0.6) of a screw length or 8 diameters. Provide standard malleable iron or steel plate washers under head. In placing lag screws in wood, bore a hole of same diameter and depth as shank. For threaded portion of screw, bore hole with a bit not larger than base of thread. Provide cast O.G. washers when directed by Architect for exposed bolts.

6 BOLTS

Clamp members together and bore holes 1/32" to 1/16" larger than bolts, bored true to line. Provide steel plates or standard malleable iron washers under heads and nuts where bearing on wood. Draw nuts up tight when installed and again just before being enclosed with other fixed materials or at completion of work.

7 SILLS ON CONCRETE

Bolt to concrete as indicated. Tighten with washers and nuts to level bearing.

8 ROOF AND CEILING FRAMING

A. Provide rafters and joists as indicated, laid with crowining edge up. Frame in for vents, openings, etc., as indicated or required to complete work. Suspended ceilings shall be hung with hanger wires as shown and/or indicated.

B. Bridging
Provide for rafters or joists 8" or more in depth as specified for floor joists.

C. Blocking
Provide solid blocking between rafters and ceiling joist over partitions and at end supports. Provide flat blocking for roof sheathing as noted and detailed.

9 PLYWOOD SHEATHING AND SHEAR PANELS

Provide plywood roof sheathing and wall shear panels, thickness and nailing indicated. Set panels with close joints. Do not use panels having holes or cut-outs.

10 FURRING

Provide wood furring at points indicated or required to apply finish over masonry, to conceal piping, structural metal work, or other unfinished work. Construct furring of 2" studs of required width or other members as required or directed.

11 GROUNDS

Provide and set wood grounds at points where wood trim occurs, Douglas Fir S1S, thickness and location as required. Set plumb or level and true to line. Securely nail to wood backing at each stud or bearing; wherever grounds are applied to concrete or masonry surfaces, securely nail to wood blocks provided and built into concrete or masonry under direction of carpentry foreman.

12 NAILING STRIPS AND PLATES

Provide and securely fasten in place wood nailing strips, plates, blocking, etc., indicated or required to complete work. Bolt nailing strips in connection with metal work as indicated.

13 WOOD BACKING

Provide wood backing to receive plumbing and/or electrical fixtures and equipment, bases, cabinets, door stop plates and other fixed equipment, as indicated or required to complete work, securely nailed to framework. Include backing required for accessory items and items indicated N.I.C.

14 INSTALLATION OF PREFABRICATED TRUSSED JOISTS

Trusses shall be handled, installed, placed and stabilized in accordance with the manufacturer's shop drawings.

Temporary construction loads which cause member stresses beyond the design limits are not permitted.

No holes or connections to the trusses other than those shown on the contract drawings and/or the approved shop drawings shall be permitted.

15 CLEAN UP

All rubbish and debris resulting from the operations of this trade shall be cleaned up and removed from the site as work progresses.

2. F CONT.

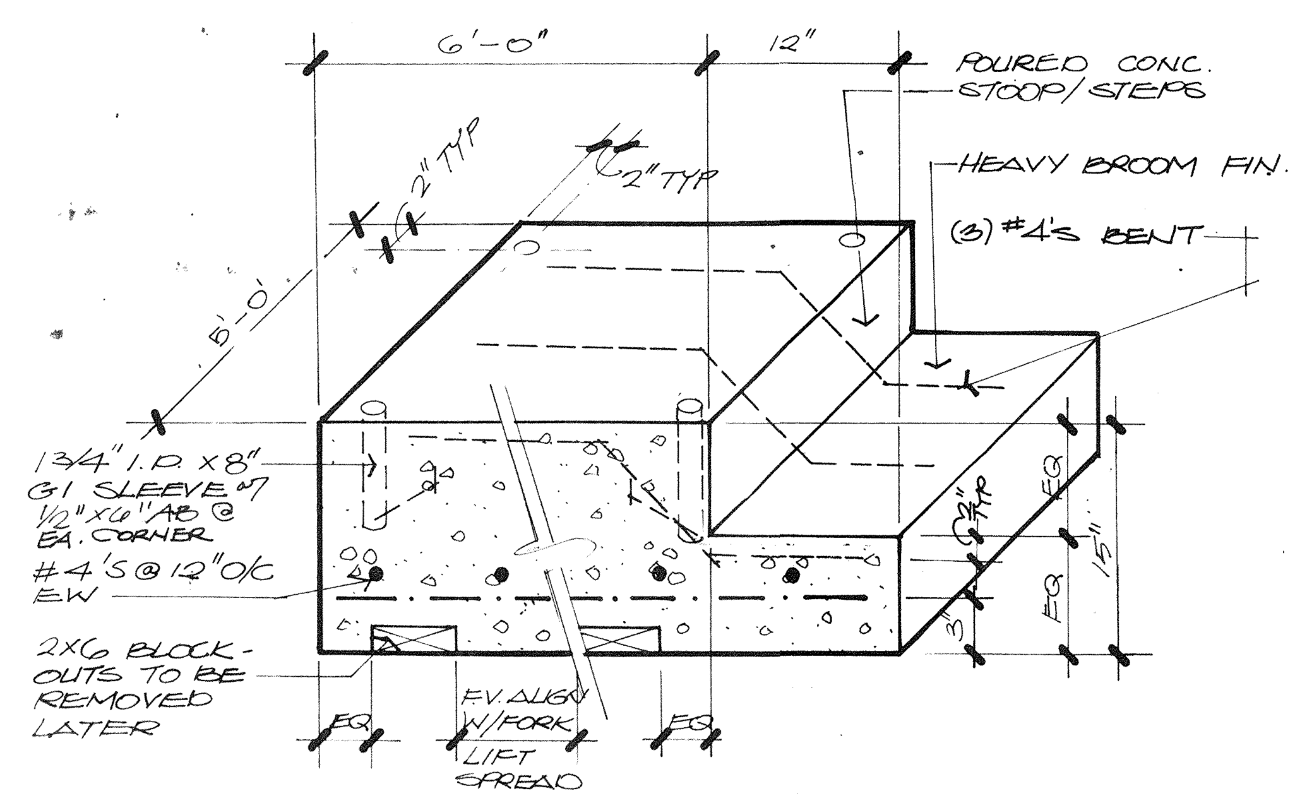
I. SOFFIT - 5/8" DOUGLAS FIR APA 303 - SIDING - EXT. SMOOTH SANDED GROUP - 1 EXPOSURE - 1

II. EXT. WALL SHEATHING - 5/8" DOUGLAS FIR APA 303 T-111 SIDING EXT. GROUP - 1 EXPOSURE - 1

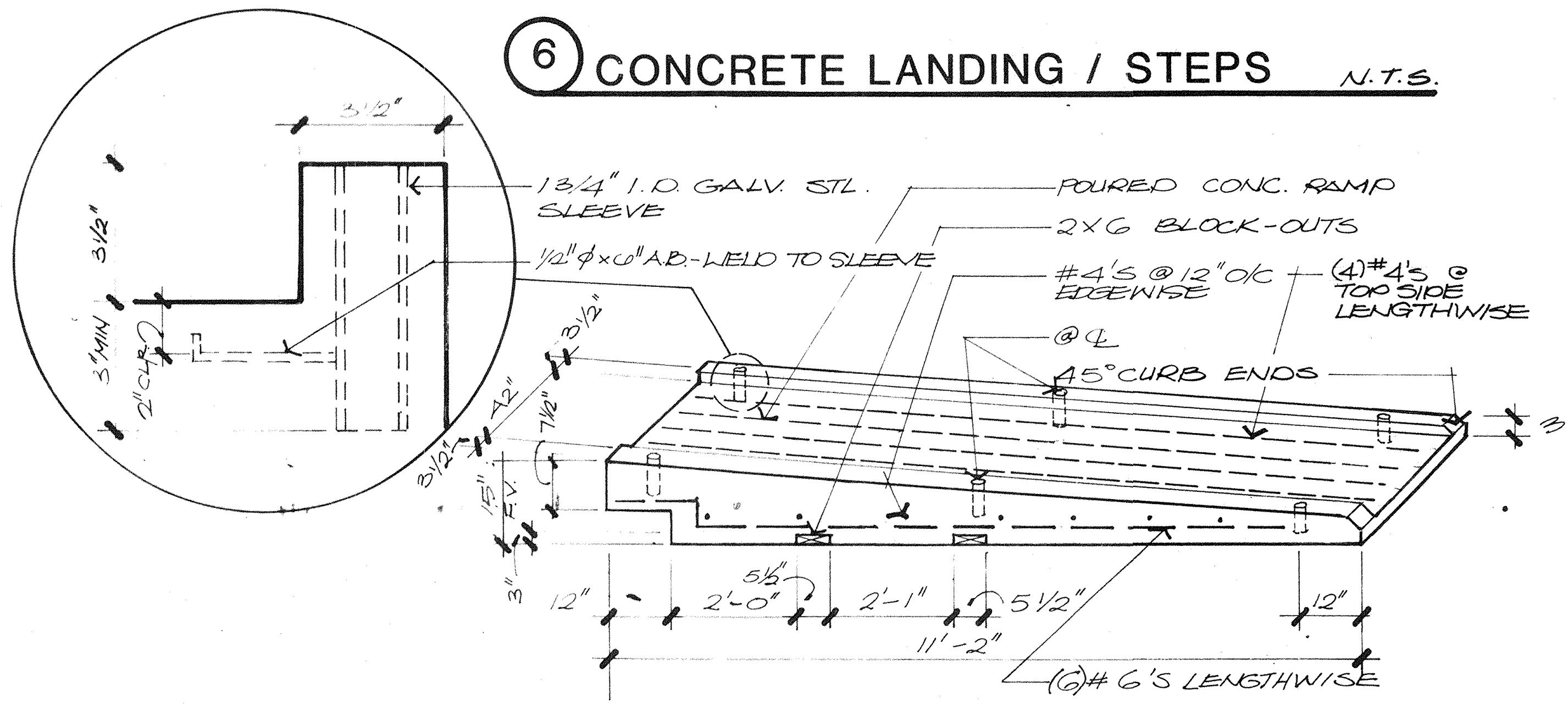
III. FLOOR SHEATHING - 3/4" T & G APA RATED STURD-I FLOOR EXT. GROUP - 1 EXPOSURE - 1

IV. INT. WALL SHEATHING - 3/8" DOUGLAS FIR APA A.D. INT. GROUP - 2 EXPOSURE - 2

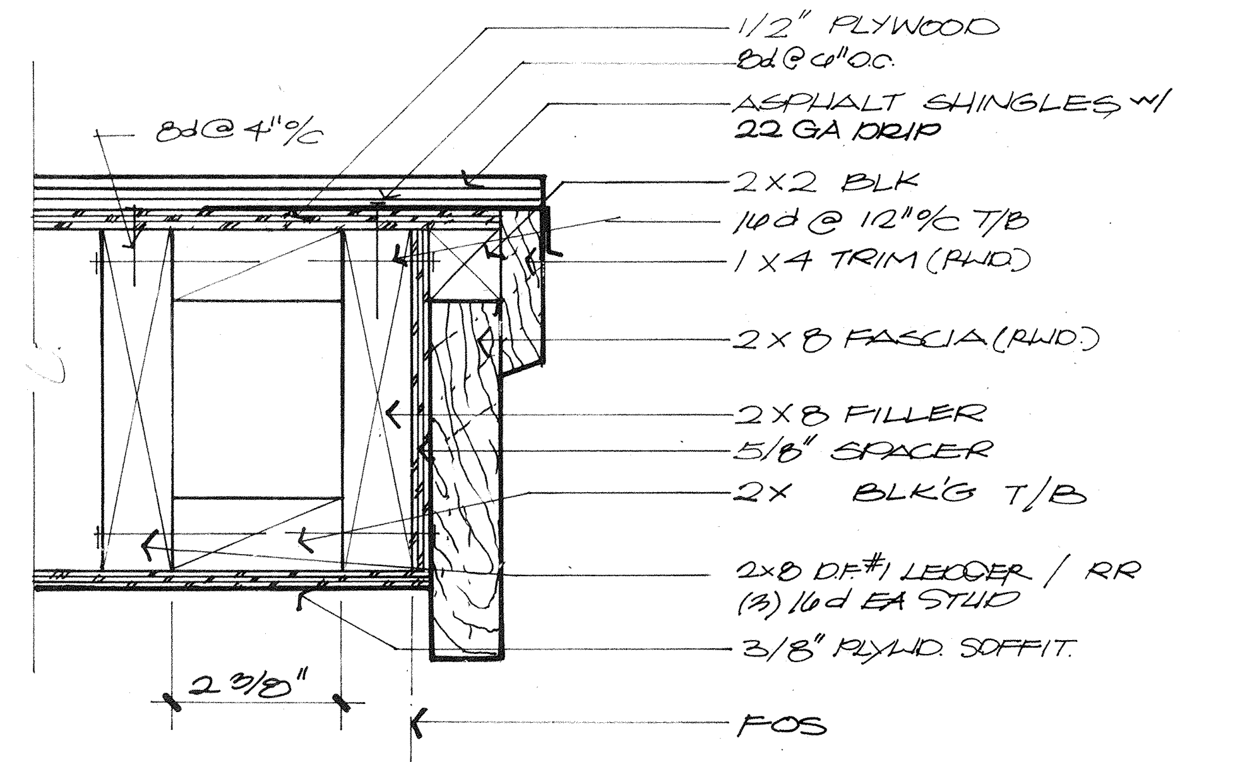
V. ROOF SHEATHING - 1/2" DOUGLAS FIR APA CP RATED SHEATHING GROUP - 1 EXPOSURE - 1



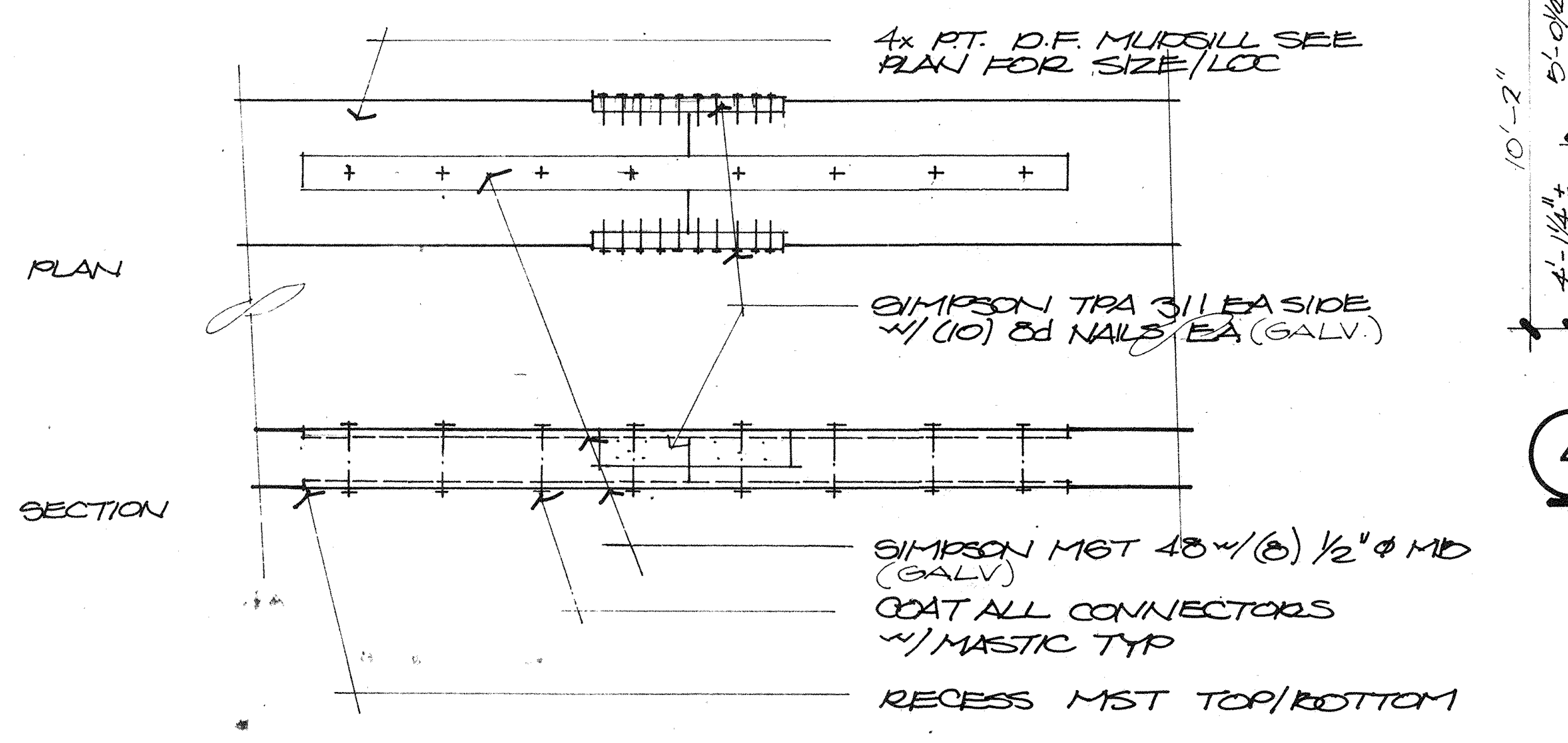
6 CONCRETE LANDING / STEPS N.T.S.



7 CONCRETE RAMP N.T.S.

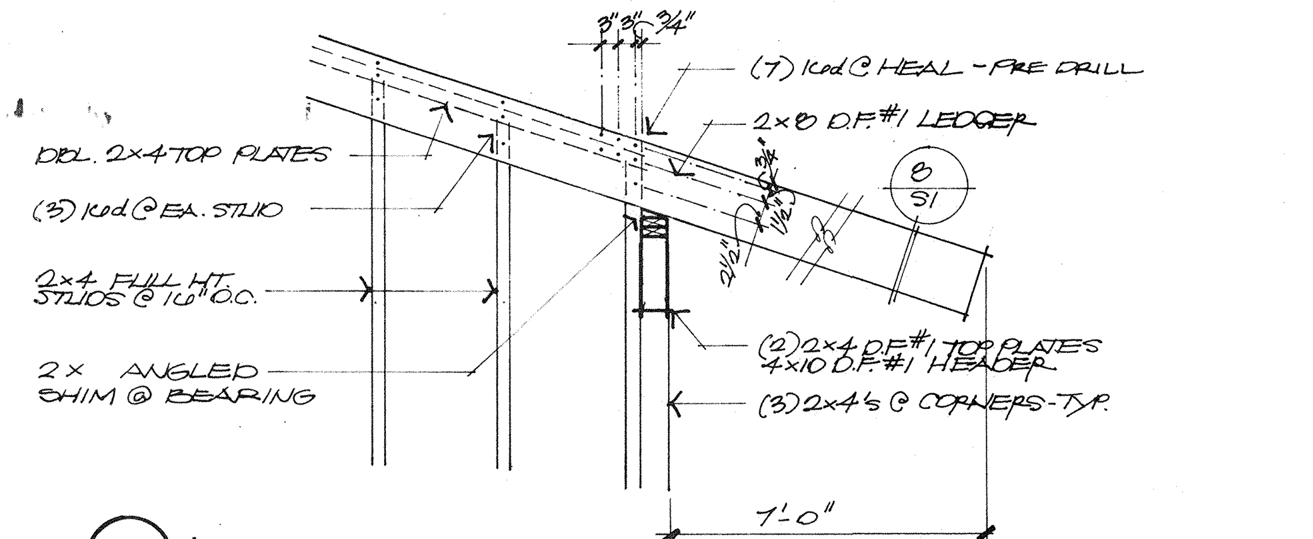


8 SOFFIT DETAIL ◦3"

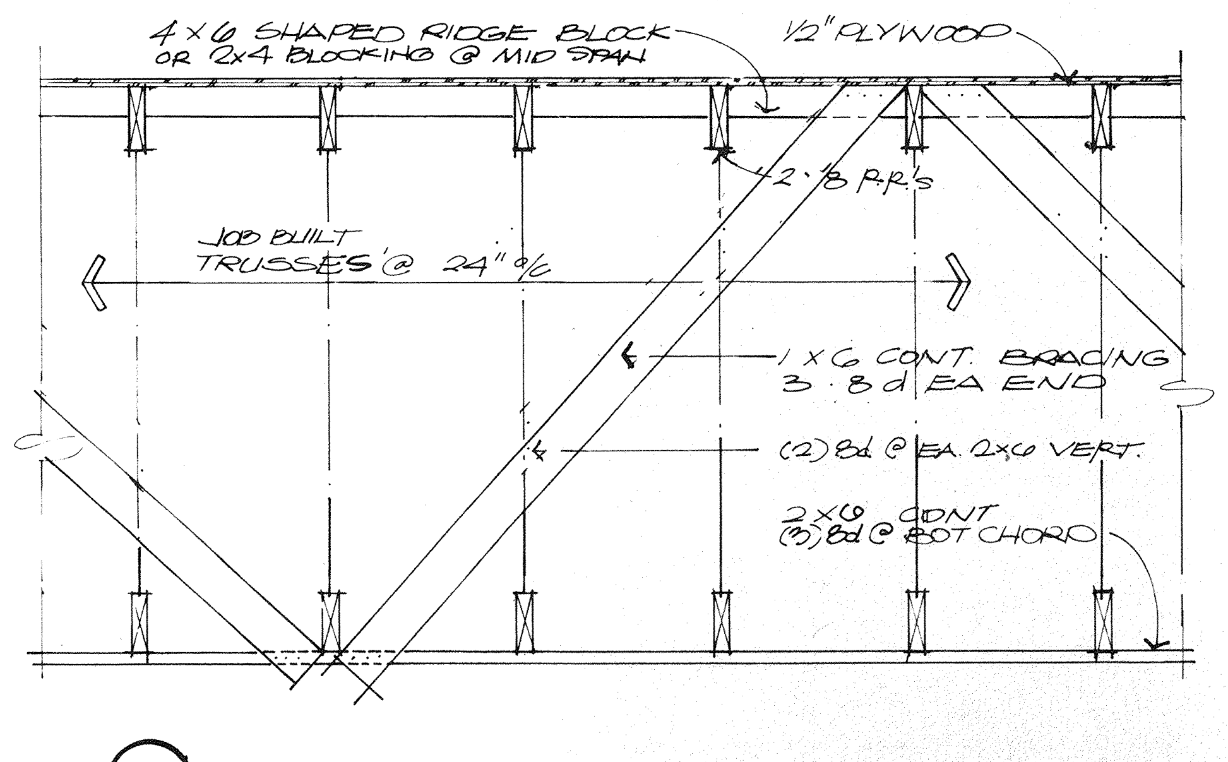


9 MUDSILL SPLICE

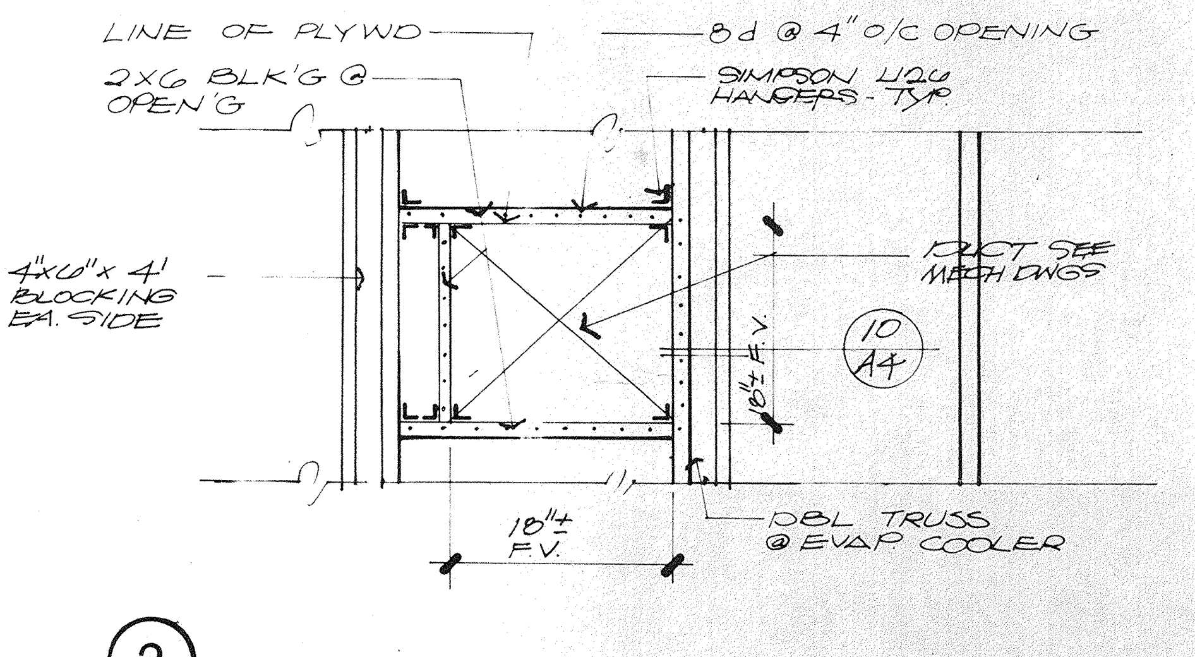
FOR GABLE ENDWALLS ONLY, NO SPLICE ALLOWED IN SIDEWALL ◦1"



10 LEDGER DETAIL ◦1/2"

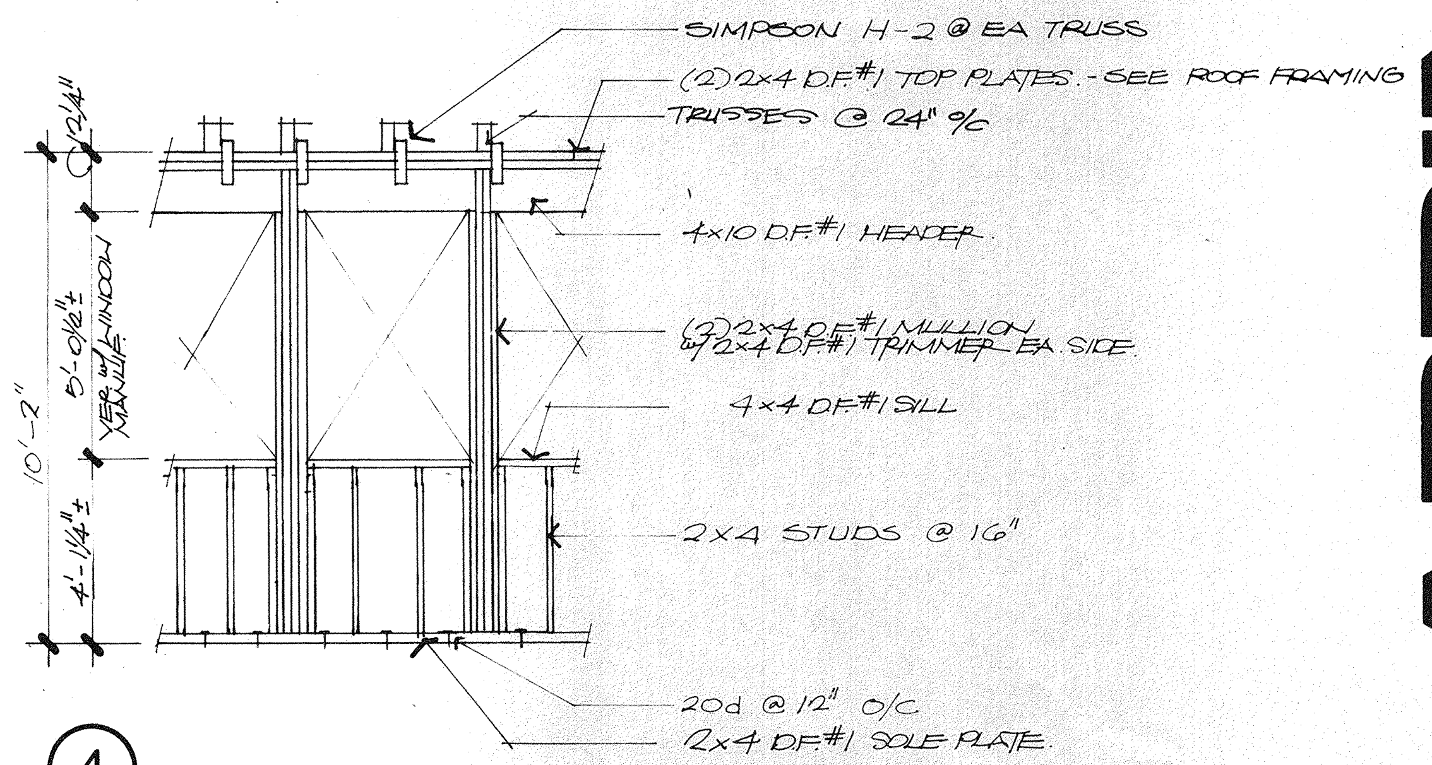


1 BRACING DETAIL ◦1/2"

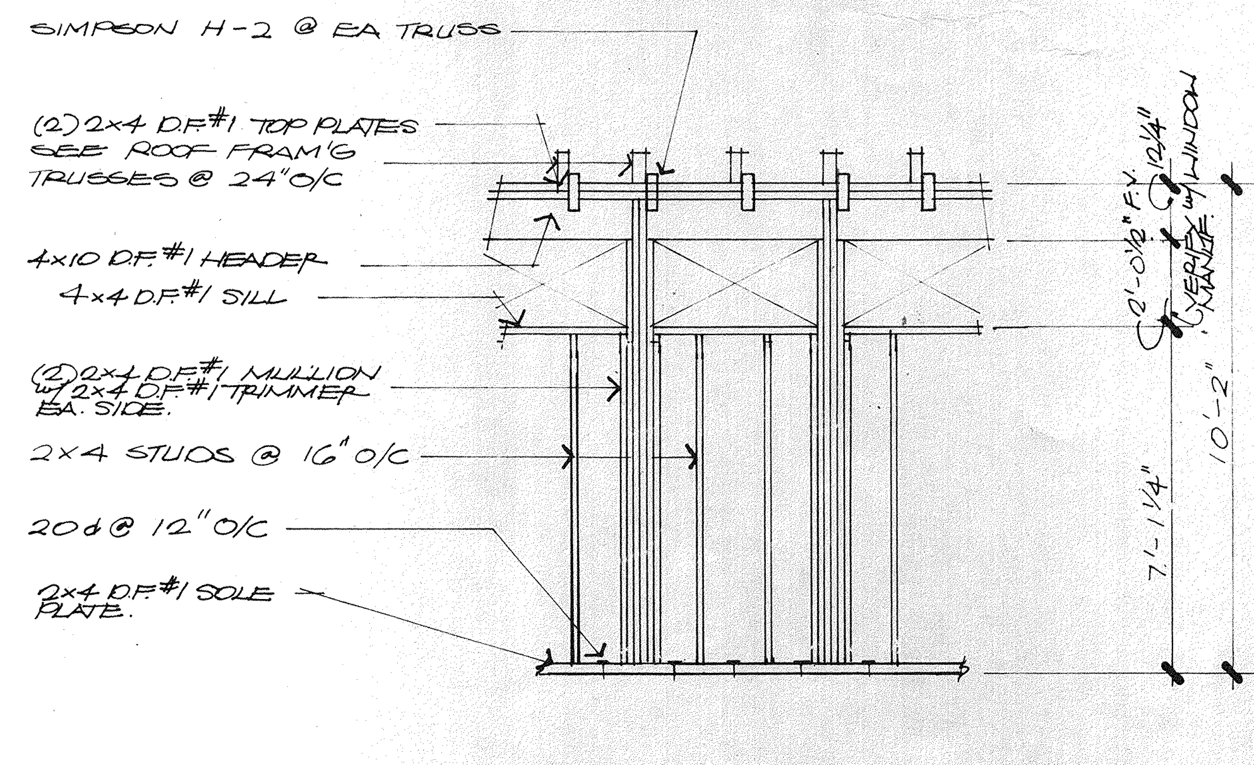


2 FRAMING AT ROOF OPENING N.T.S.

3



4 WALL FRAMING DETAIL ◦1/4"



5 WALL FRAMING DETAIL

CHRIS A. ADDINGTON & ASSOCIATES
A.I.A. ARCHITECTS · 3434 TRUXTUN AVE. SUITE #240 · BAKERSFIELD · CALIF. 93301/805 · 327-1699

83182

OFFICE OF THE STATE ARCHITECT
STRUCTURAL SAFETY SECTION
A 454-6 JUN 13 1985
APPROVED APPLICATION NO.
CRC

DATE:	PRINTS ISSUED FOR:	MARK	DATE	REVISIONS
5.10.85	BOARD APPROVAL	1		
5.20.85	OSA	2		
5.23.85	BIDDING	3		
		4		
		5		

DRAWN K.N.
DATE 5.10.85
JOB NO. 85.242.1
CHECK'D M.M.S.

CAA
CHRIS A. ADDINGTON C 9093

MISCELLANEOUS STRUCTRAL NOTES & DETAILS
NEW PORTABLE CLASSROOM
FOR BAKERSFIELD CITY SCHOOL DISTRICT.
BAKERSFIELD · KERN COUNTY · CALIFORNIA

S 1
OF 3 SHEETS