

- NOTES**
- AREAS NOTED NIC ARE NOT IN THE CONTRACT. THEY ARE TO BE CONSTRUCTED AT A LATER DATE.
 - THE EXISTING PARK SHALL BE KEPT OPEN TO THE PUBLIC DURING CONSTRUCTION.
 - THE EXISTING BUILDING OPERATIONS SHALL BE KEPT OPERATIONAL FOR THE FIRST 5 MONTHS OF CONSTRUCTION.
 - A COPY OF THE GEOTECH REPORT SHALL BE KEPT AT THE JOB SITE AT ALL TIMES FOR THE REVISION OF THE INSPECTOR.
 - ALL REFERENCES TO "OR EQUAL" OR "OR EQUIVALENT" ARE TO BE APPROVED BY BUILDING DEPARTMENT AND NOT OUT IN THE FIELD IF SUBSTITUTIONS ARE MADE.

- FIRE DEPARTMENT REQUIREMENTS**
- Provide a minimum, unobstructed width of 26 feet clear to sky, vehicular access to within 150 feet of all portions of the exterior walls. Fire code 902.2.1.
 - The required fire flow for PUBLIC fire hydrants at this location is 2000 gallons per minute at 20 psi for a duration of 2 hours, over and above maximum daily domestic demand.
 - The required fire flow for ON-SITE hydrants is 1250 gallons per minute at 20 psi.
 - Hydrants shall measure 6" x 4" x 2 1/2", brass or bronze, conforming to current A.W.A. Standard C533, or approved equal. Hydrants shall be installed per specification of the Los Angeles County Water Ordinance No. 7834. (Title 23) USRY Manual, Section 4.0 to 4.6.
 - All required public fire hydrants shall be installed, tested and accepted prior to construction.
 - Vehicular access must be provided and maintained serviceable throughout construction.
 - Provide an approved fire sprinkler system. Submit plans for approval prior to installation. Fire Code 103.2.1.
 - The fire sprinkler system shall be calculated per Pamphlet # 13, # 13D, # 231 or # 231C, whichever is applicable.
 - The fire sprinkler system shall be supervised as required in the Building Code, 904.3.1.
 - Plans showing underground piping of on-site hydrants, sprinkler systems shall be submitted for approval prior to installation.
 - On-site protection facilities (i.e., hydrants, sprinklers, etc.) shall be submitted for approval prior to occupancy.
 - The inspection, hydrostatic test and flushing of the hydrant and/or sprinkler system shall be witnessed by the proper Fire Department representative and no underground piping shall be covered with earth or hidden from view until the Fire Department representative has been notified and given no less than 48 hours in which to inspect such installations.
 - Exit doors shall swing in the direction of exit travel when serving any hazardous area or when serving an occupant load of 50 or more. Title 24, 1004.2.
 - Exit doors shall be operable from the inside without use of a key or any special knowledge or effort. Title 24, 1004.3.
 - Width and height of required exit doorways to comply with Title 24, 1004.4.
 - Exits shall be illuminated at any time the building is occupied, with light having an intensity of not less than one foot-candle at floor level. Title 24, 1012.1.
 - Provide Exit signs per Title 24, 1013.
 - Provide approved exit illumination and illuminated exit signs which are powered from separate sources. Title 24, 1012.2.18. Fire extinguisher requirements shall be determined by field inspector. Fire Code 1002.
 - Fire extinguisher requirements shall be determined by field inspector. Fire Code 1002.
 - Building address numbers to be provided on the front of all buildings and shall be visible and legible from street fronting the property. Said numbers shall contrast with their background. Fire Code 901.4.4.
 - Commercial dumpsters or containers with an individual capacity of 1.5 cubic yards or greater shall not be stored or placed within five feet of combustible walls, openings or combustible roof eave lines unless ones containing dumpsters are protected by an approved sprinkler system. Fire Code 1103.2.2.
 - Provide approved panic hardware on required exit doors. Title 24, Sections 1016.4 & 1004.4.
 - Provide an approved fixed fire extinguisher system for the kitchen hood, duct and cooking surfaces. Indicate U.L. approval, system number and submit U.L. approved schematic drawing to area inspection unit. Fire Code Section 1004.2.
 - Interior finish shall be provided in accordance with Title 24, Section 804, as follows: Class I - Vertical Enclosures; Class II - Corridors; Class III - Rooms. Atriums, hanging curtains, drapes and all other decorative material to comply with Fire Code Section 1103.3.3.
 - Comply with posting of room capacity. Fire Code 2501.16.1 Title 24, Section 1002.3 (Subject to field inspection approval).
 - The maximum occupant load for an assembly use shall not exceed the occupant load as determined in accordance with Title 24, Section 1002.2, Table 10A. Refer to sheet A-1.

BUILDING DATA:
 EXISTING - 2,309 SF
 NEW - 7,437 SF
 TOTAL - 9,746 SF

OCCUPANCY: 366 MAXIMUM
 E-2, B, A-3

TYPE Vn FULLY SPRINKLED

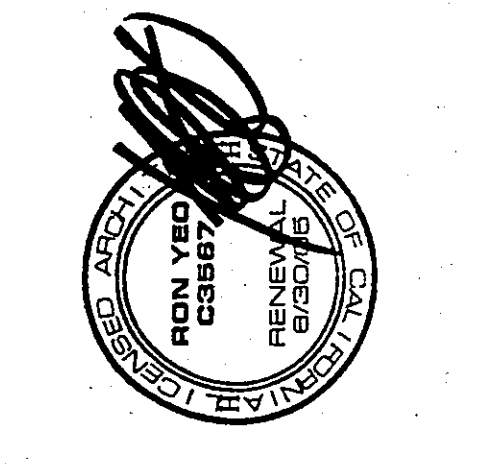
SITE DATA:
 Total Site Area 26.451 acres

PARKING DATA:

LOT (A)	EXISTING	PROPOSED
9 x 20 STALLS	39	30
ACCESSIBLE	1	1
VAN ACCESSIBLE	1	6
	41	37
LOT (B)		
9 x 20 STALLS		27
		32
LOT (C)		
9 x 20 STALLS		0
		138
TOTALS	68	207 ONE BUS

NOTE: REFER TO CIVIL PLANS FOR ALL SITE IMPROVEMENTS

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 San Mateo, CA 94401
 CALIFORNIA REG. NO. 44481
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

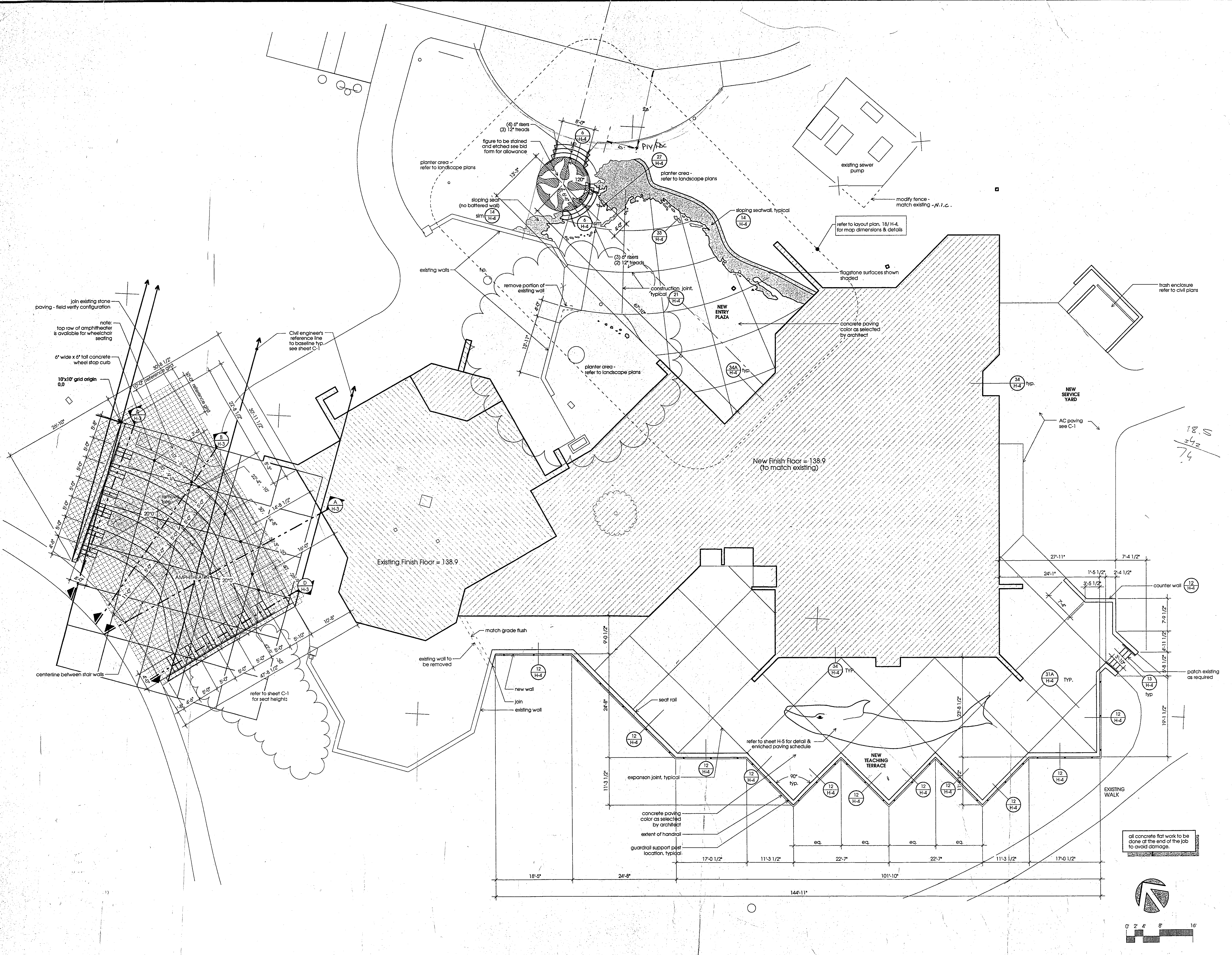
Site Plan

DRAWN P.M.M.G.
CHECKED R.Y.
 DATE 2/1/99
 SCALE 1" = 40'
 JOB NO. 95-120
 SHEET

Scale: 1" = 40'

2 OF 61 SHEETS

border
paper edges
scratch



join existing stone paving - field verify configuration

note:
top row of amphitheater is available for wheelchair seating

6" wide x 6" tall concrete wheel stop curb

10'x10' grid origin 0,0

Civil engineer's reference line to baseline typ. see sheet C-1

remove portion of existing wall

planting area - refer to landscape plans

planting area - refer to landscape plans

planting area - refer to landscape plans

planting area - refer to landscape plans

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Existing Finish Floor = 138.9

New Finish Floor = 138.9 (to match existing)

match grade flush

existing wall to be removed

new wall

join

existing wall

seat rail

refer to sheet H-5 for detail & enriched paving schedule

90° typ.

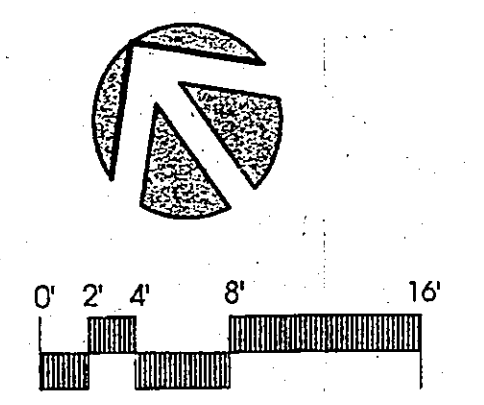
expansion joint, typical

concrete paving color as selected by architect

extent of handrail

guardrail support post location, typical

oil concrete flat work to be done at the end of the job to avoid damage.



HARDSCAPE PLAN

RON YEO FAIA ARCHITECT, INC.
1501 MARKET STREET, SUITE 100
SAN FRANCISCO, CA 94102
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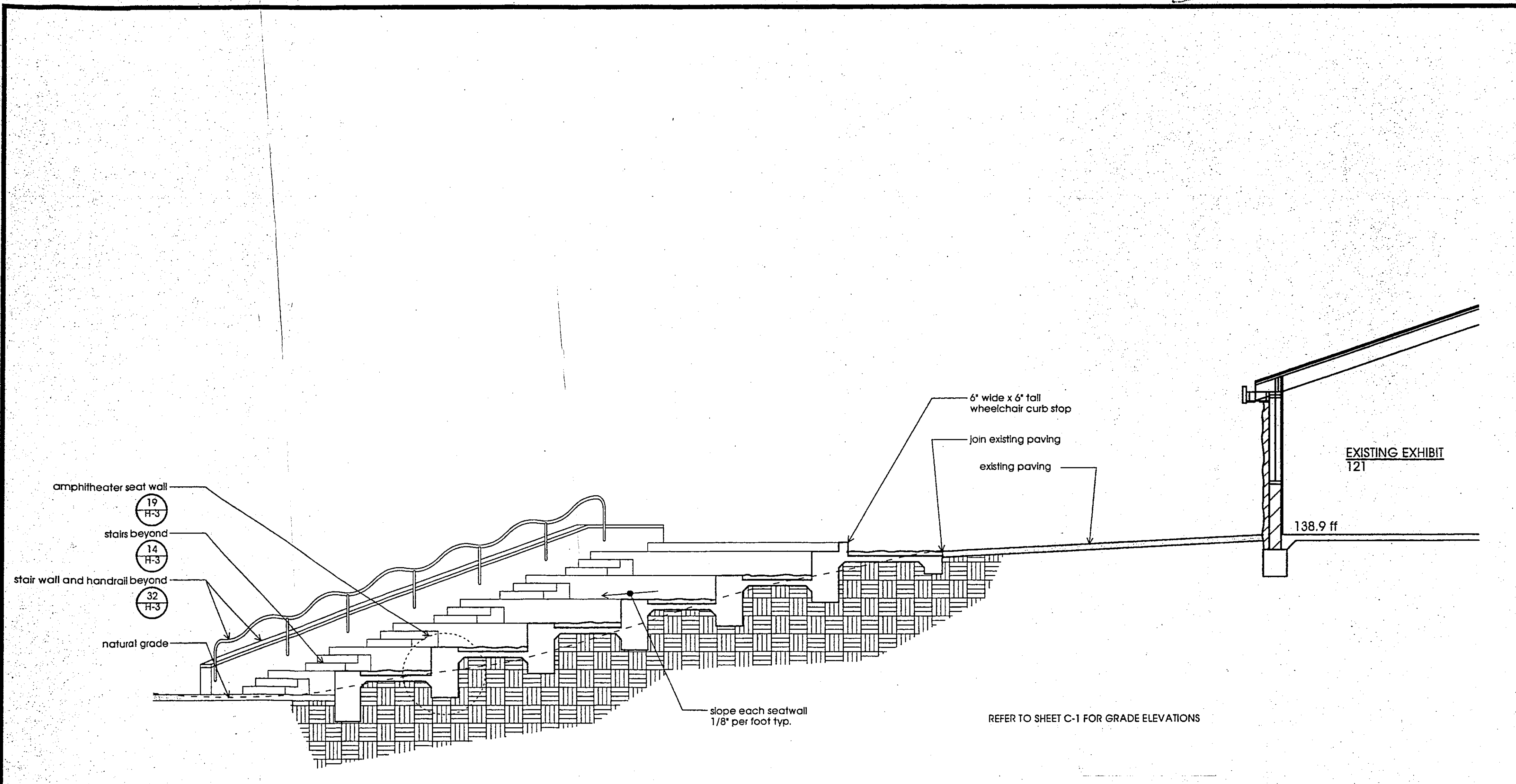
POINT VICENTE INTERPRETIVE CENTER EXPANSION
311001 Palms Verdes Drive, West
Rancho Palms Verdes, CA

12/23/03 update revisions

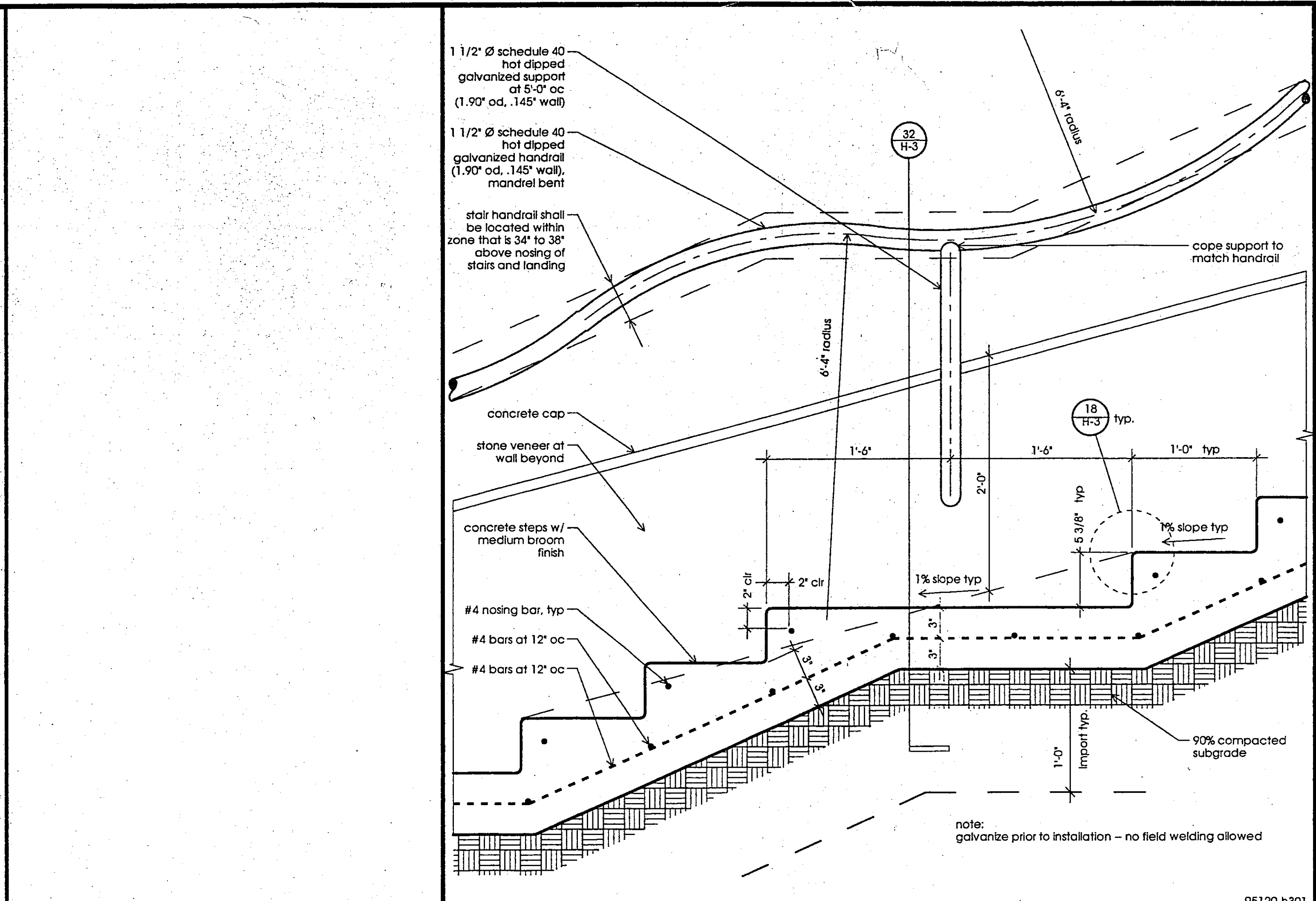
Hardscape Plan

DRAWN	PW/MMG
CHECKED	RY
DATE	2/1/09
SCALE	1/8" = 1'-0"
JOB NO.	95-120
SHEET	

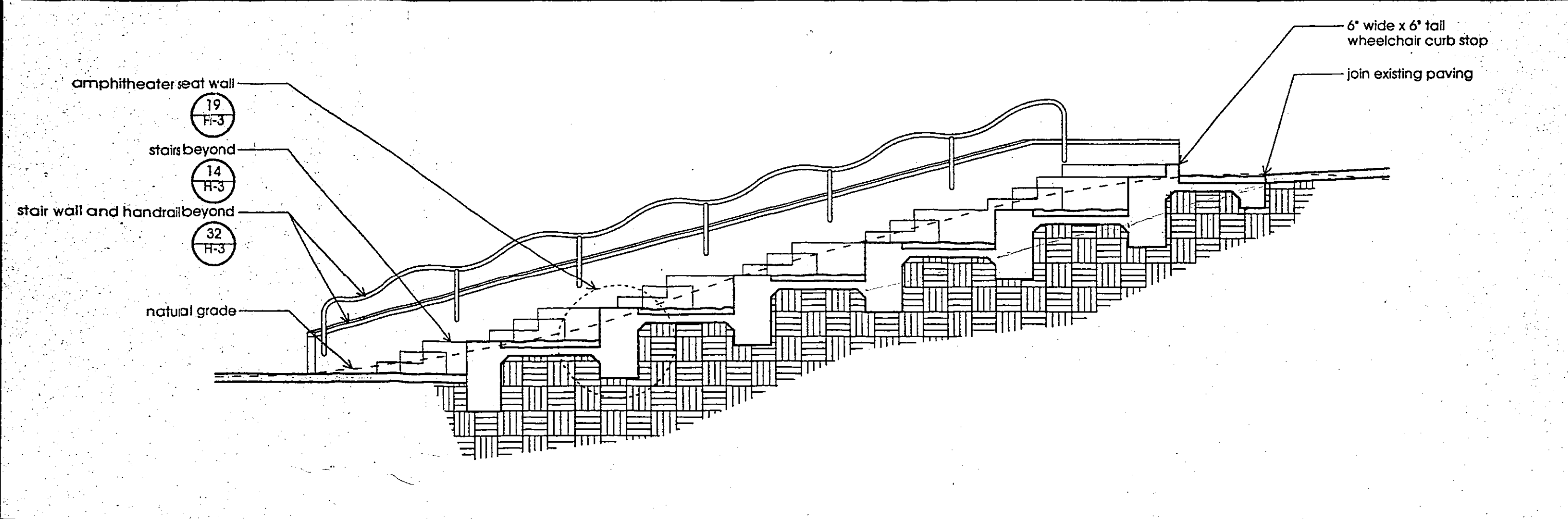
H-2
3 OF 69 SHEETS



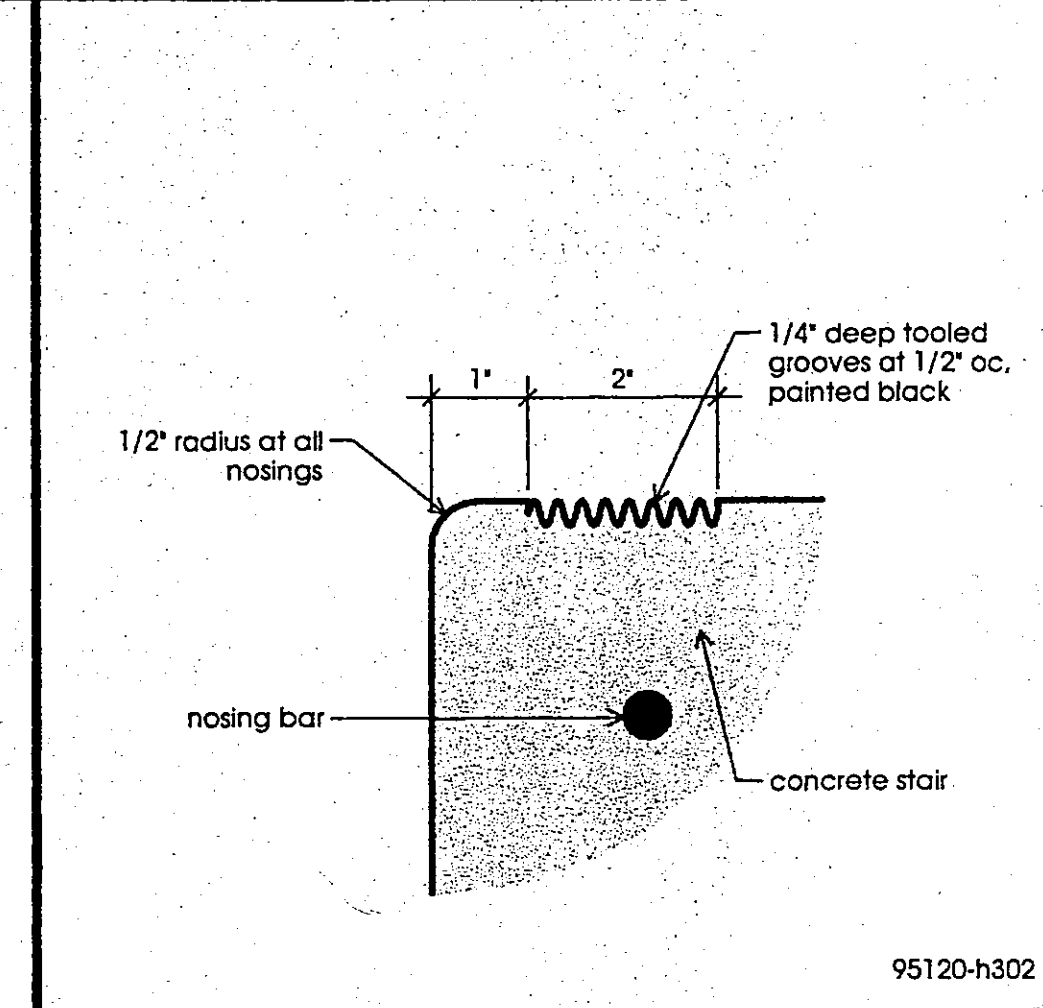
AMPHITHEATER SECTION Scale: 1/4" = 1'-0" **A**



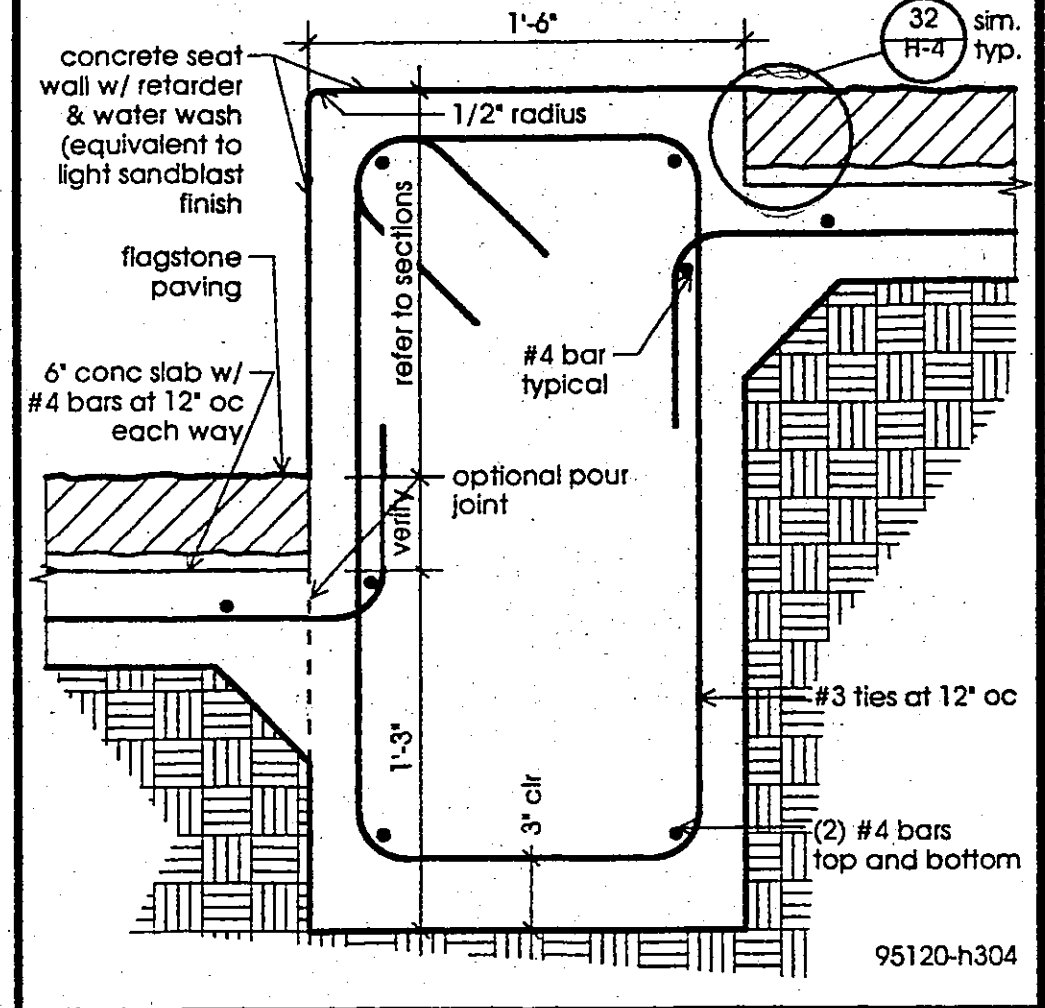
AMPHITHEATER STAIRS & HANDRAIL Scale: 1 1/2" = 1'-0" **14**



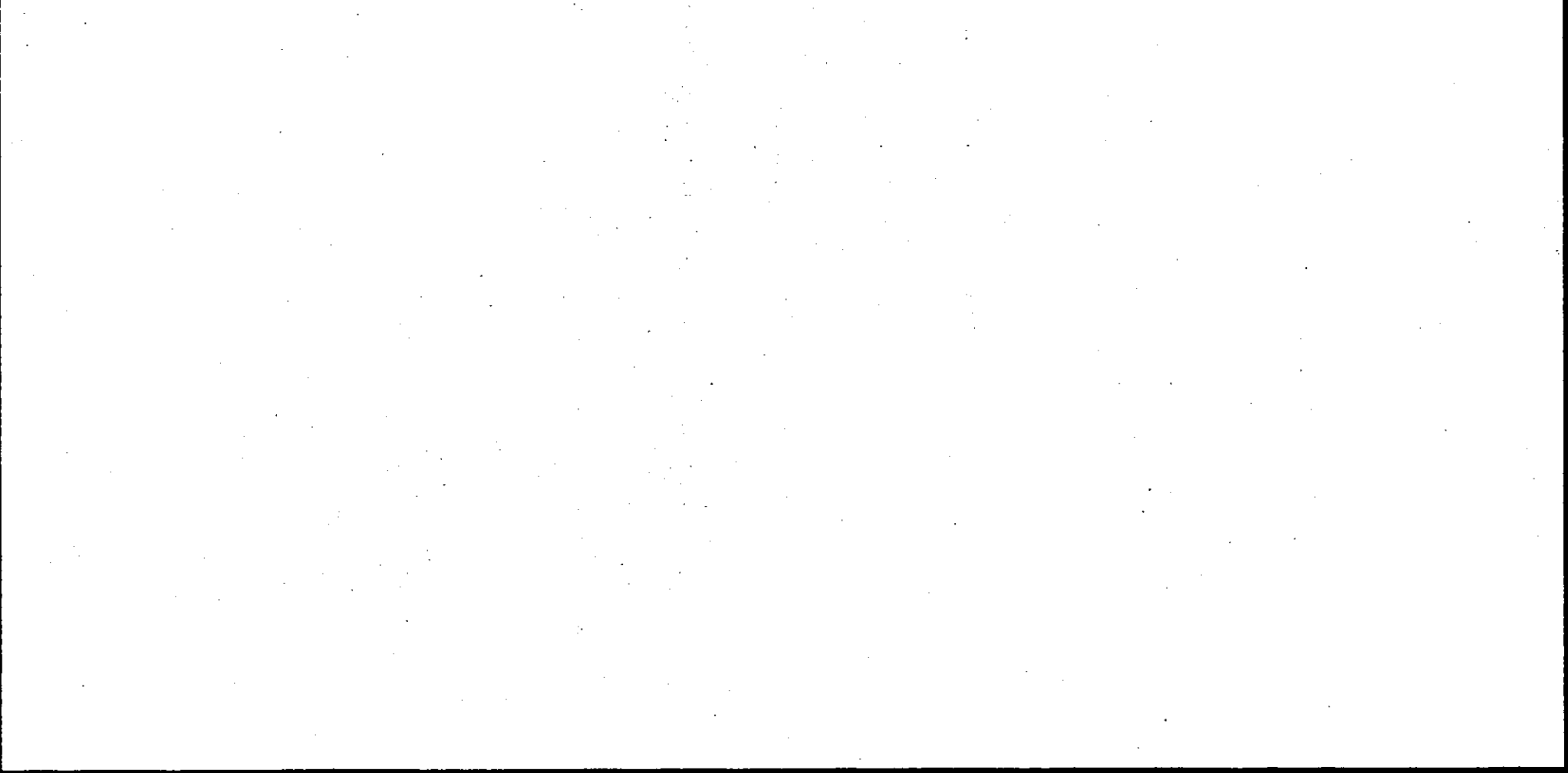
AMPHITHEATER SECTION Scale: 1/4" = 1'-0" **B**



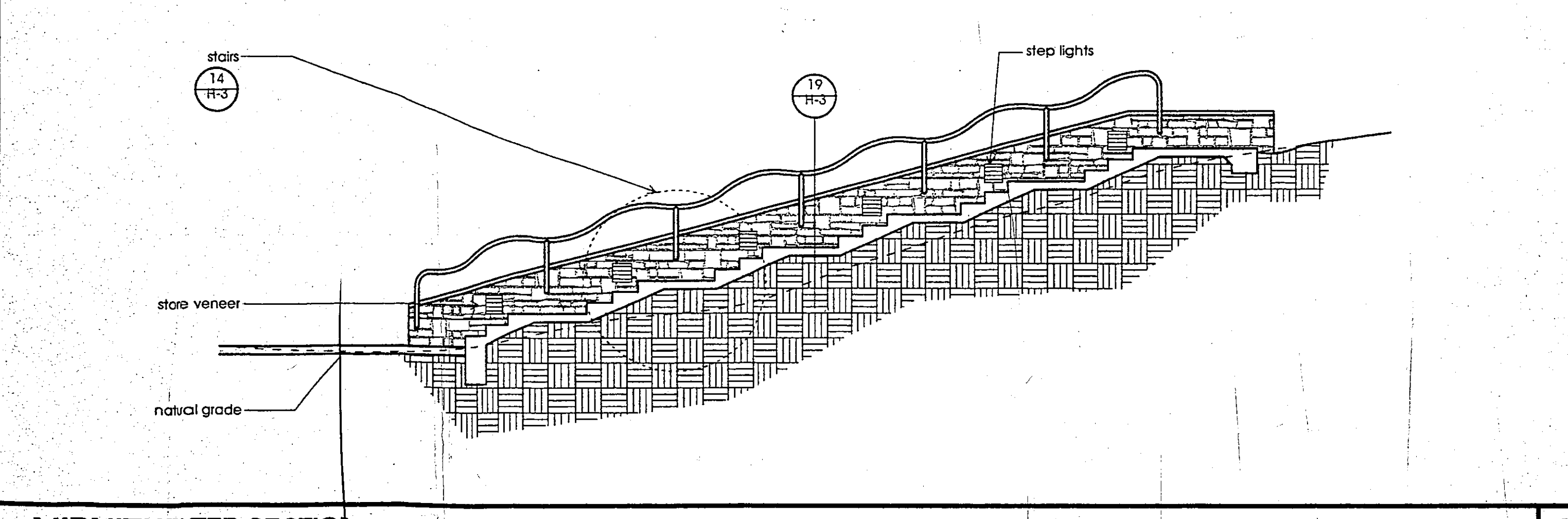
STAIR NOSING Scale: 6" = 1'-0" **18**



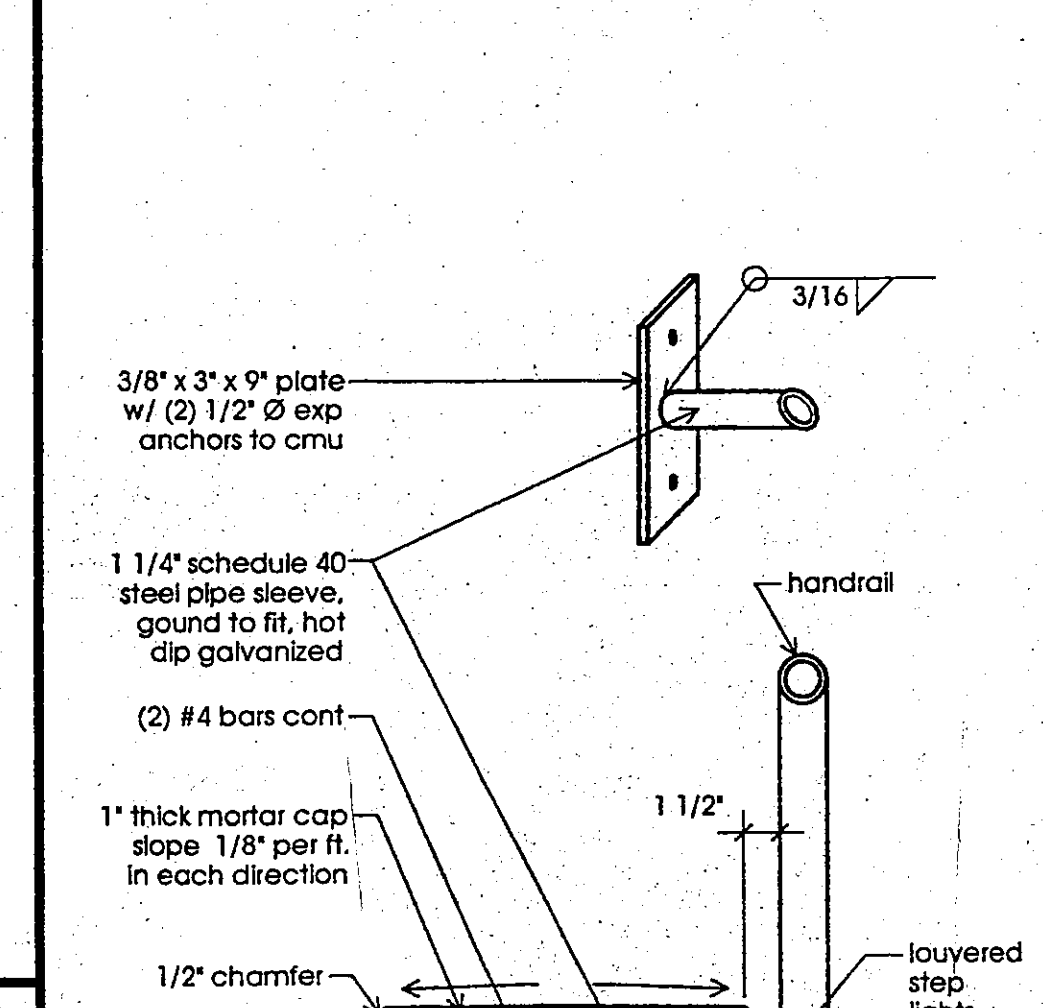
SEAT WALL Scale: 1 1/2" = 1'-0" **19**



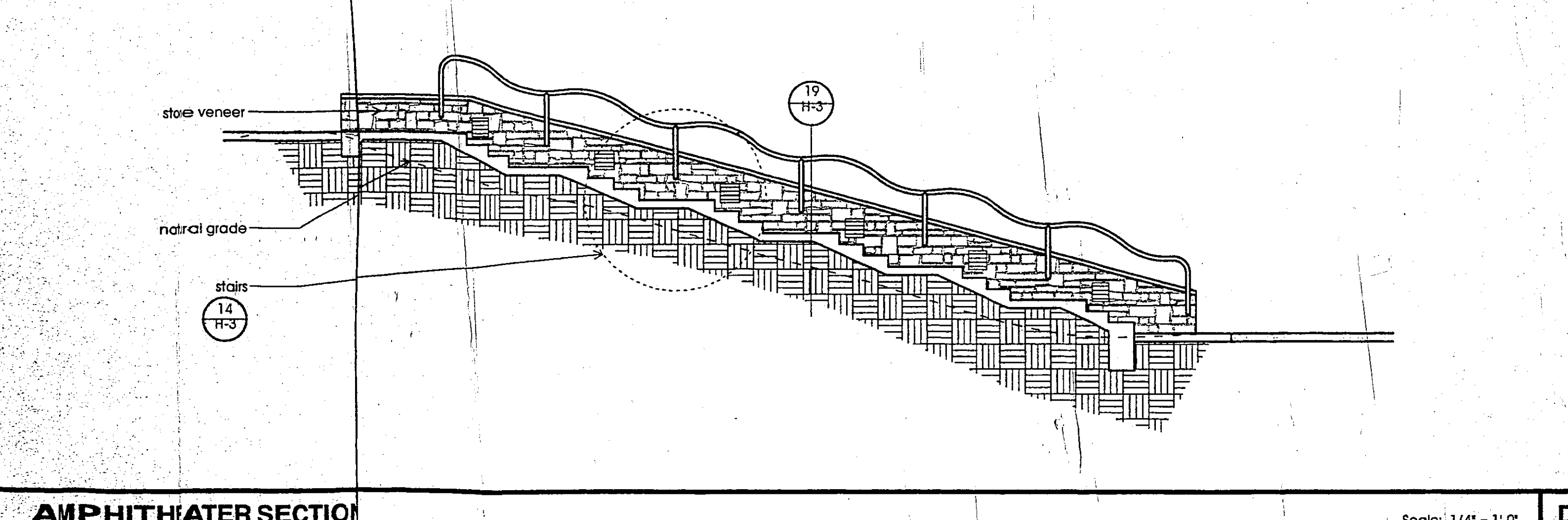
DETAIL TITLE Scale: 1 1/2" = 1'-0" **33**



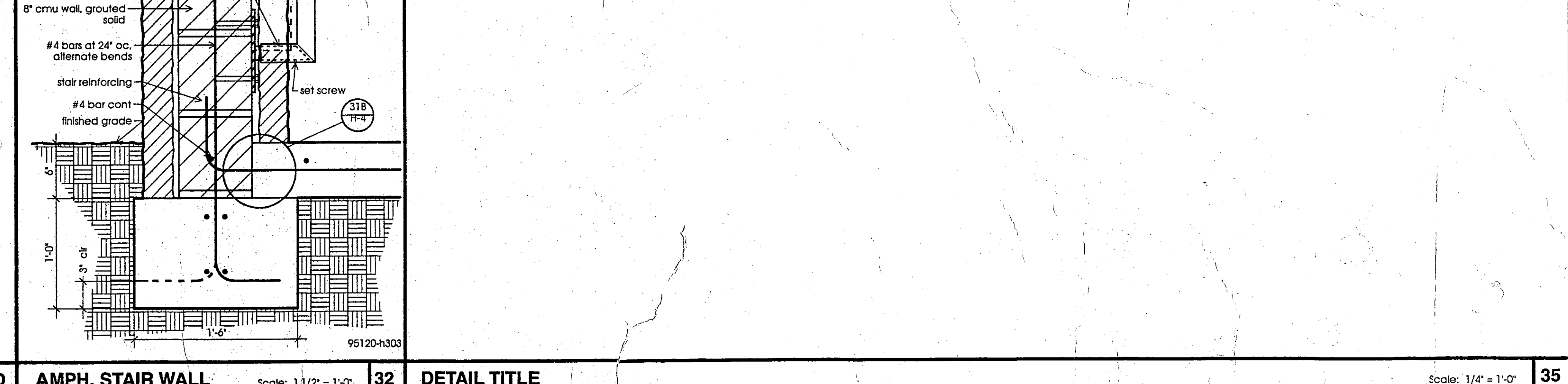
AMPHITHEATER SECTION Scale: 1/4" = 1'-0" **C**



AMPH. STAIR WALL Scale: 1 1/2" = 1'-0" **32**

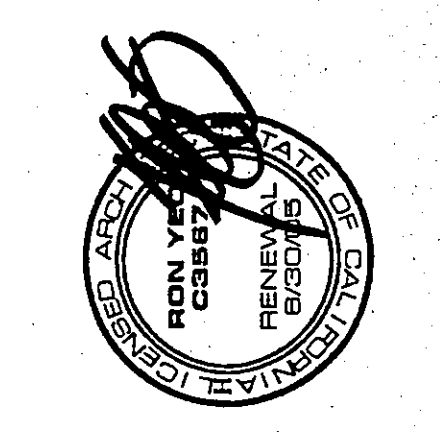


AMPHITHEATER SECTION Scale: 1/4" = 1'-0" **D**



DETAIL TITLE Scale: 1/4" = 1'-0" **35**

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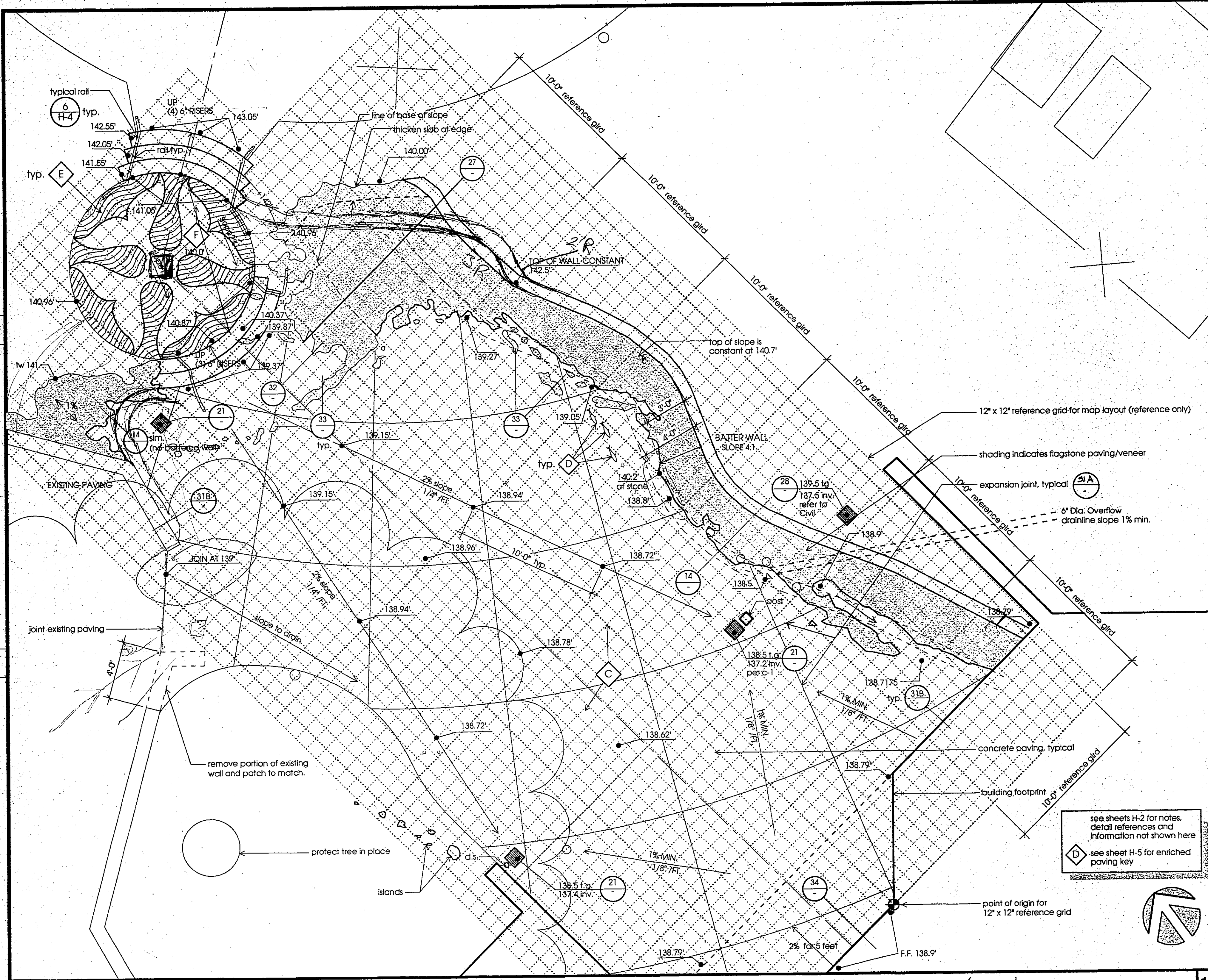
12/23/03 update revisions

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palms Verdes Drive West
 Rancho Palms Verdes, CA

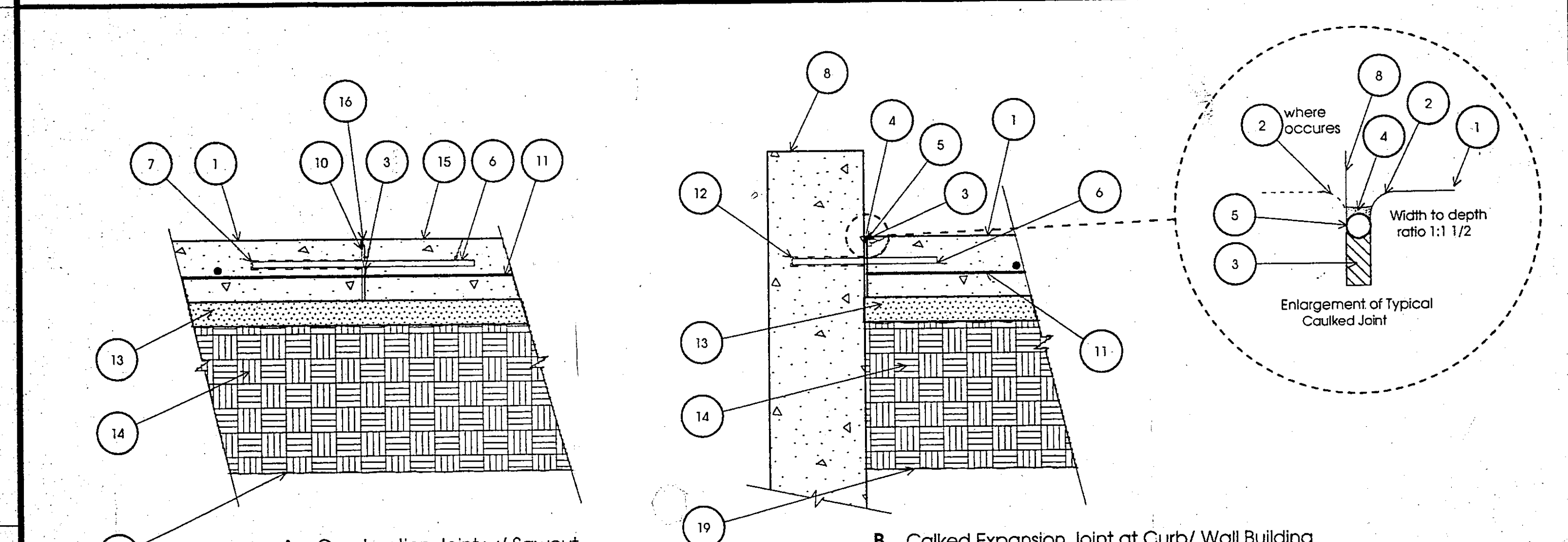
Hardscape Details & Sections

DRAWN: PM/MG
 CHECKED: BY
 DATE: 2/1/99
 SCALE: (as noted)
 JOB NO.: 95120
 SHEET: **H-3**
 4 OF 61 SHEETS

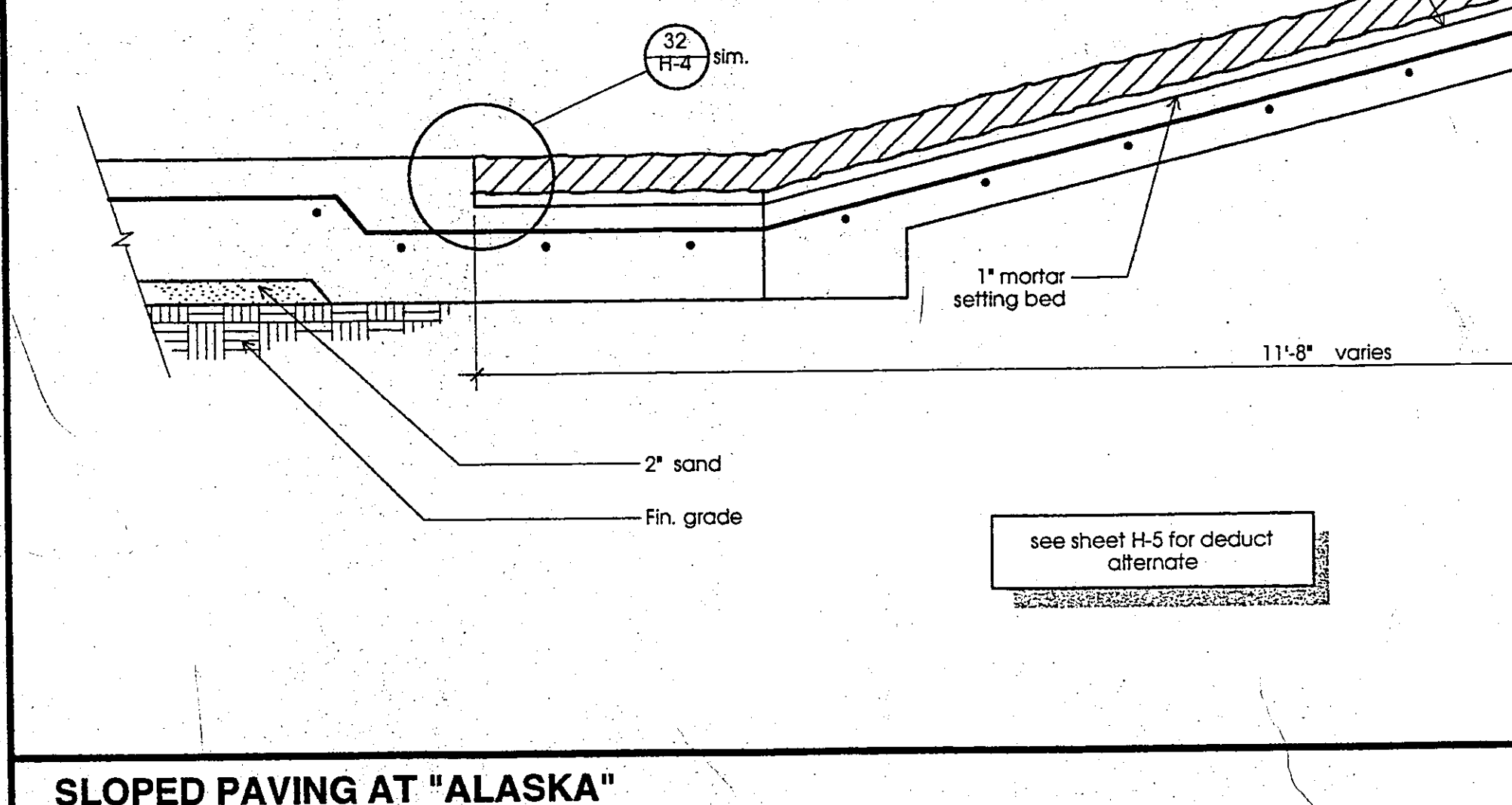
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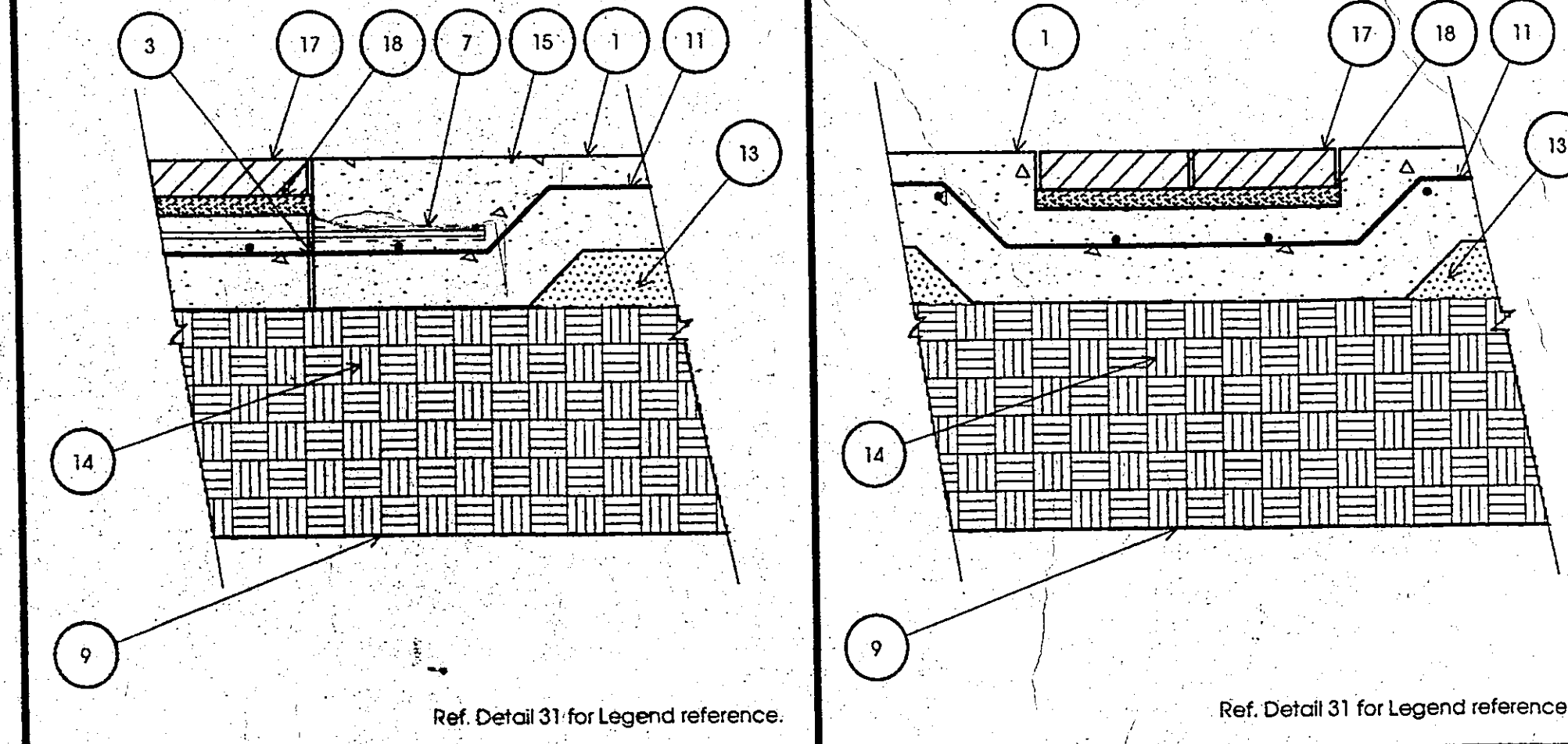
STONE PAVING MAP LAYOUT PLAN Scale: 1/4" = 1'-0" 18



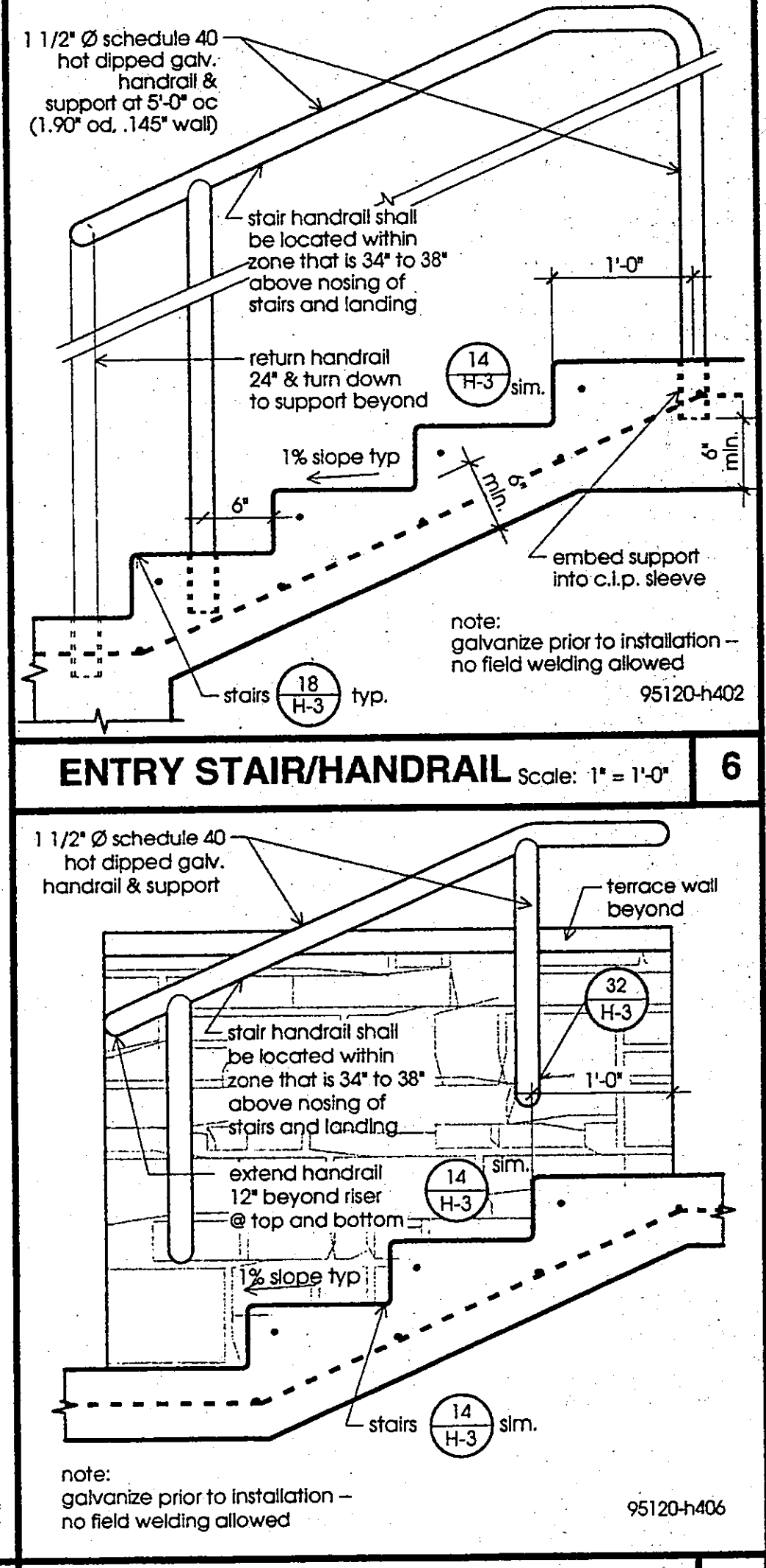
- Legend:**
- Concrete Paving. Pour in checkerboard fashion. 5" min. thickness over 2" sand.
 - 1/4" Toolled radius edge.
 - 1/4" Premolded expansion joint filler. Use 3m adhesive to attach to all sides. Mount 3/4" below top of slab.
 - Polyurethane sealant - color to match adjacent paving.
 - Closed-cell polyurethane backer rod.
 - 1/2" steel dowel 24" long at 24" O.C. Center in concrete.
 - Speed dowel at 24" o.c. 12" Long
 - Wall or Building Slab.
 - Compacted subgrade per Geotechnical.
 - Sawcut Joint - 3/4" depth of concrete paving.
 - #5 Rebar 12" of slab on center each way. center of slab unless noted otherwise on structural plans
 - 12" speed dowel 24" O.C. at building slab. Refer to architectural drawings for detail along building slab
 - 2" sand
 - 12" imported sandy non-expansive fill expansion board
 - 2nd concrete pour. Concrete to cover expansion board
 - 24 hours after 2nd pour, sawcut out the concrete 'cantilevered' over the expansion joints
 - 2" Thick random flagstone paving.
 - 1" mortar setting bed.



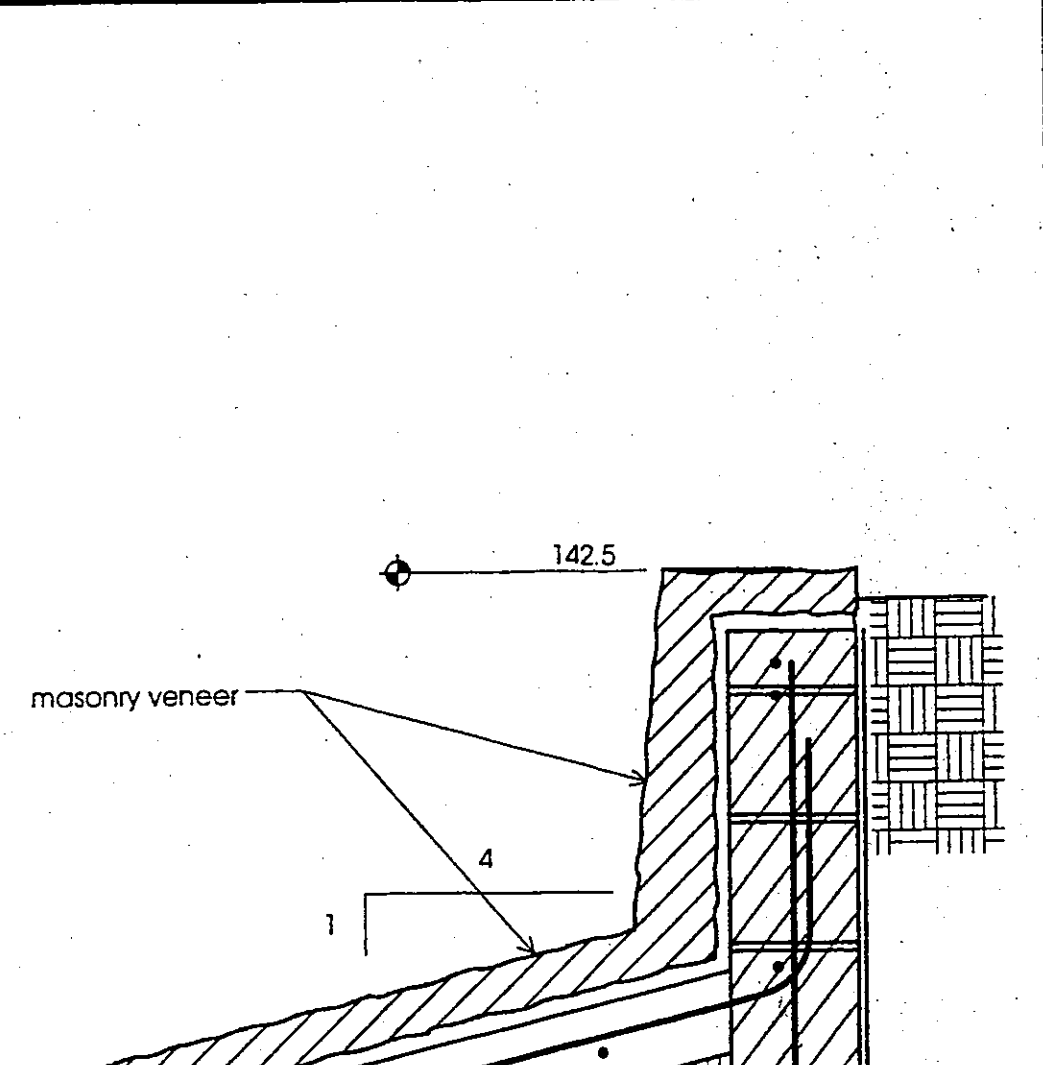
SLOPED PAVING AT "ALASKA" Scale: 1" = 1'-0" 27



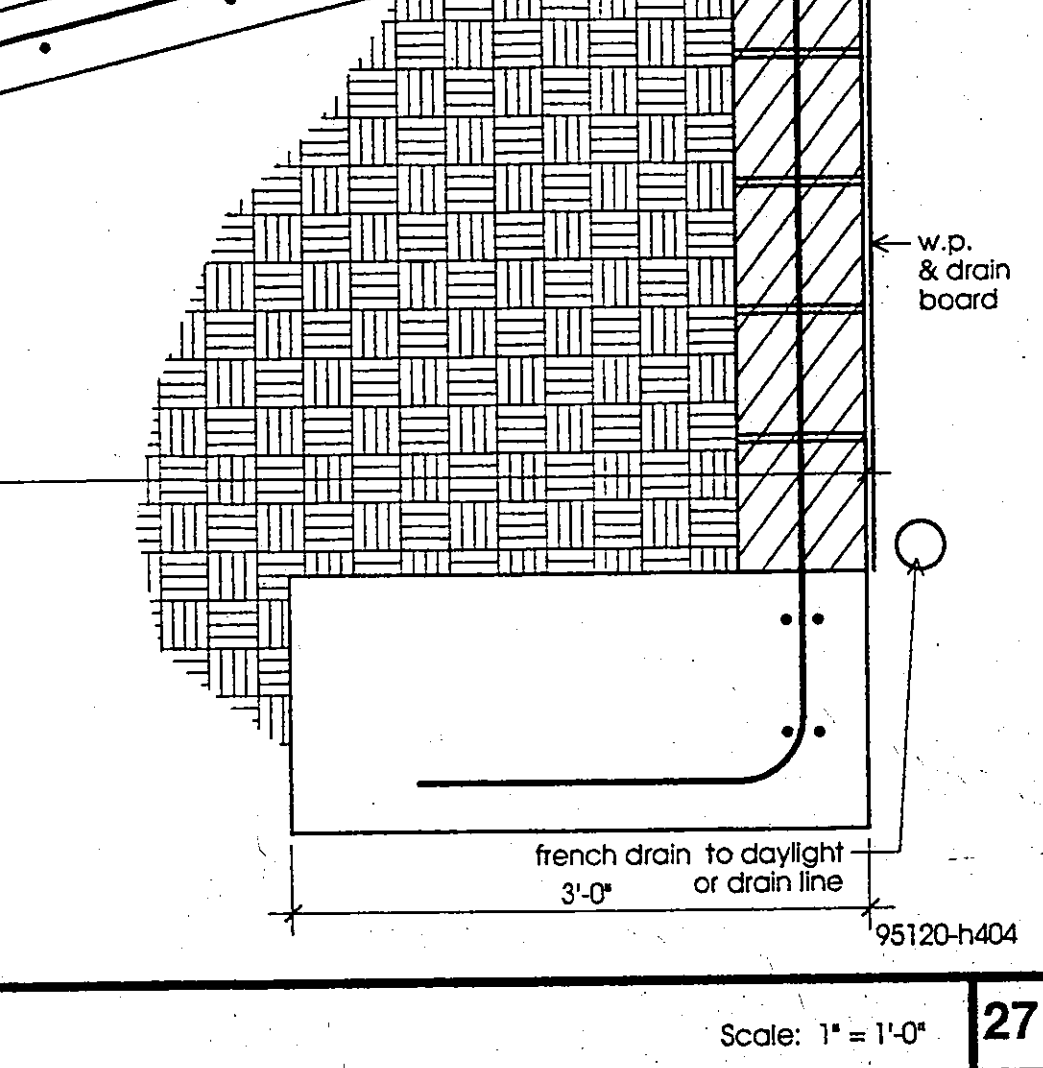
STONE/CONCRETE ISLAND Scale: none 31 32



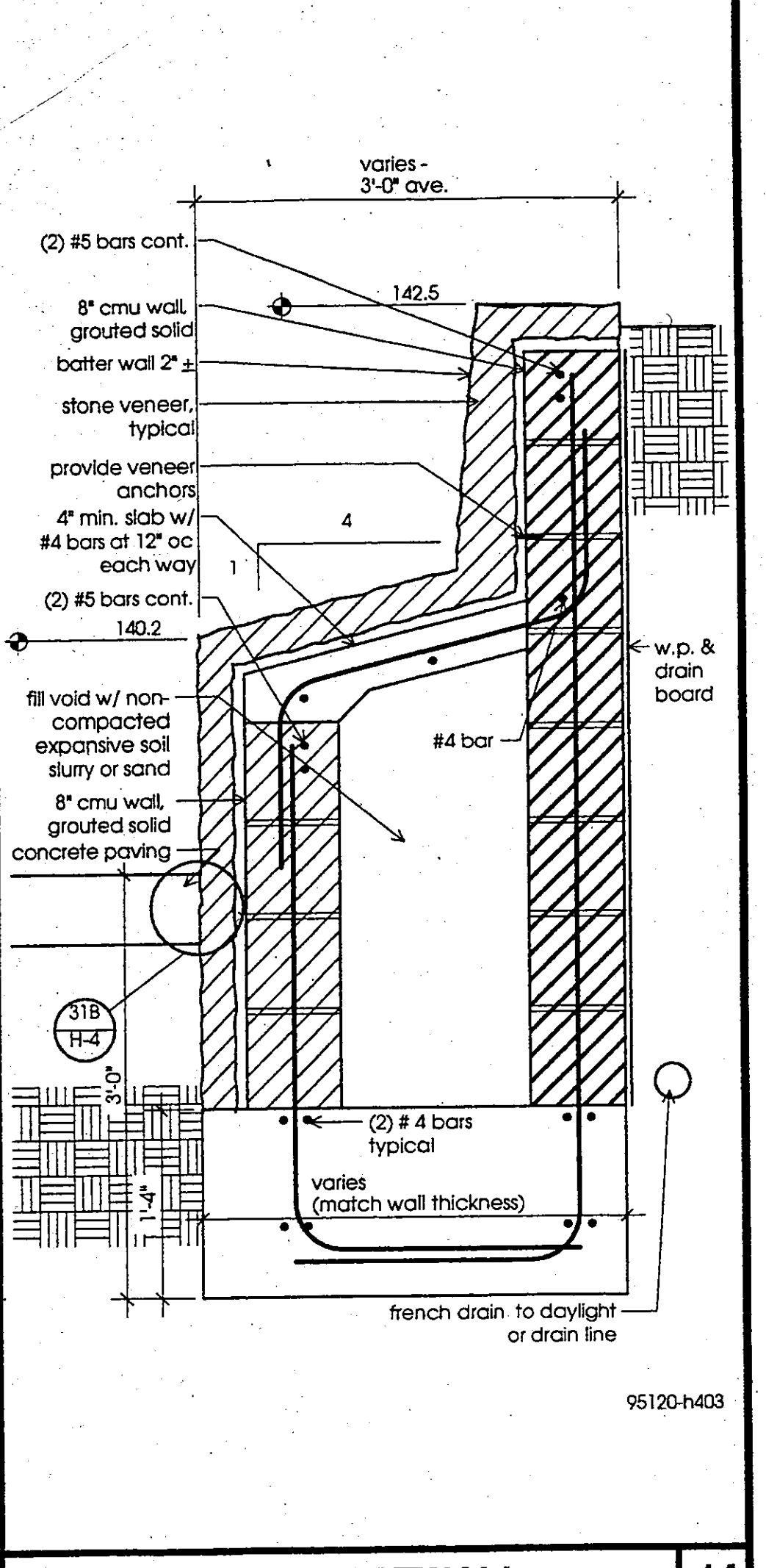
ENTRY STAIR/HANDRAIL Scale: 1" = 1'-0" 6



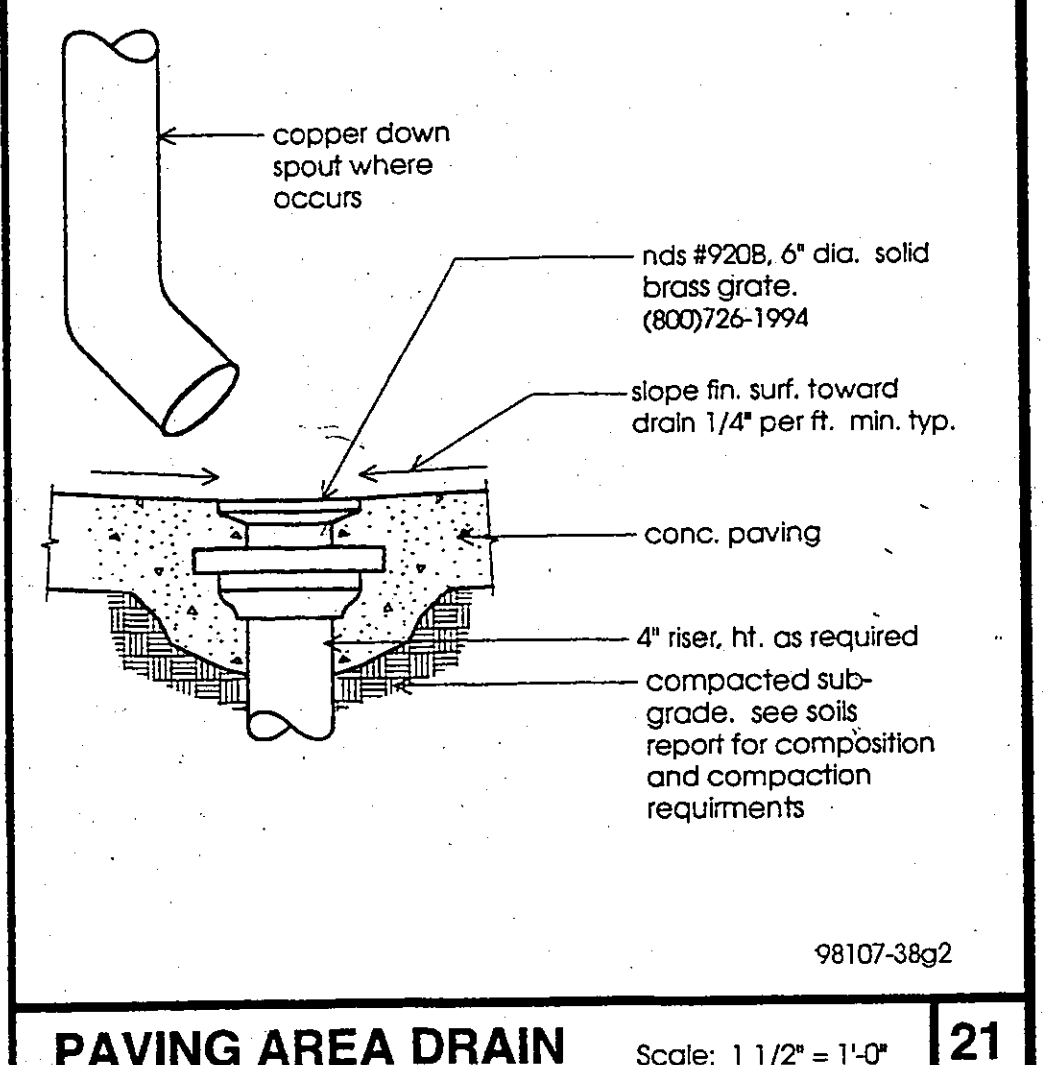
TERRACE WALL Scale: 1" = 1'-0" 12



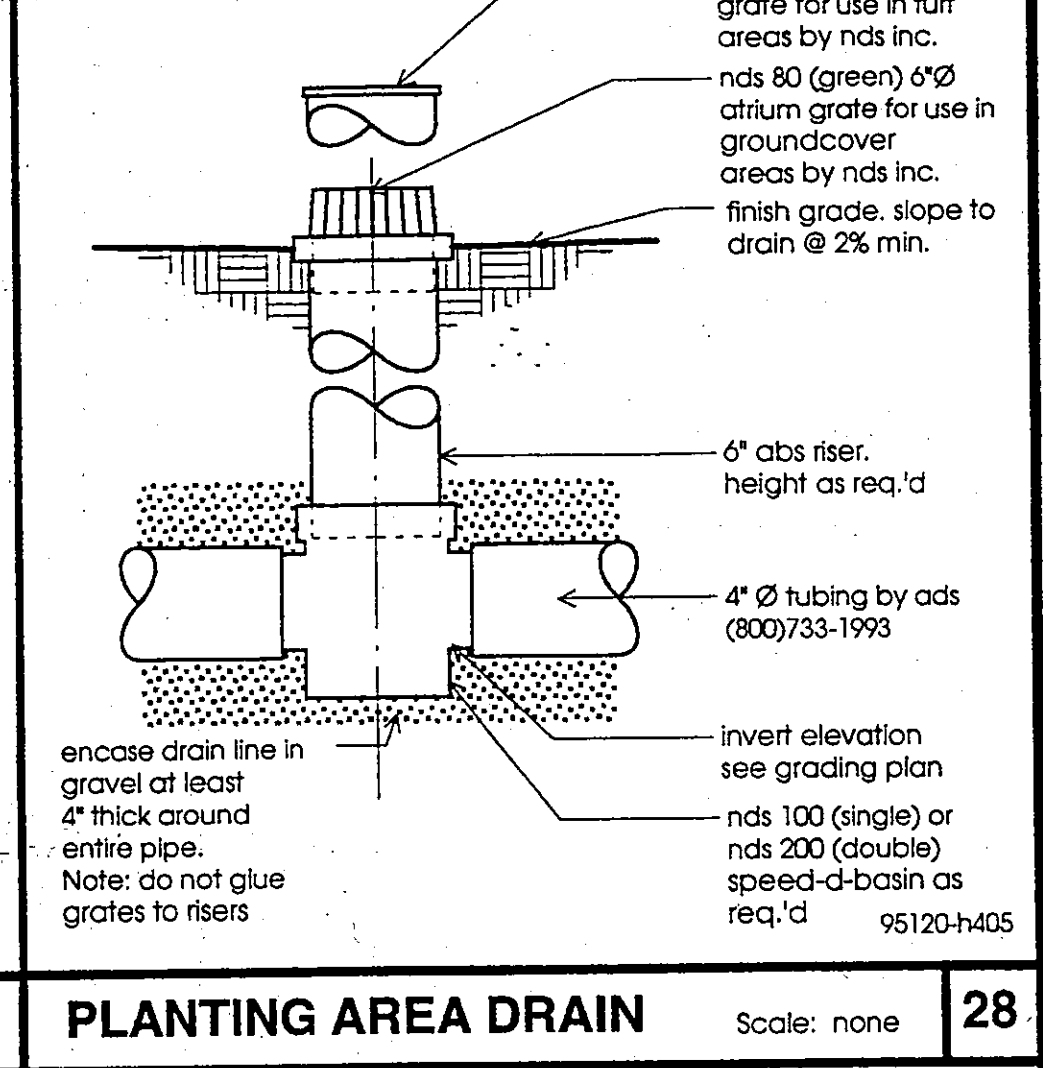
TERRACE STAIR Scale: 1" = 1'-0" 13



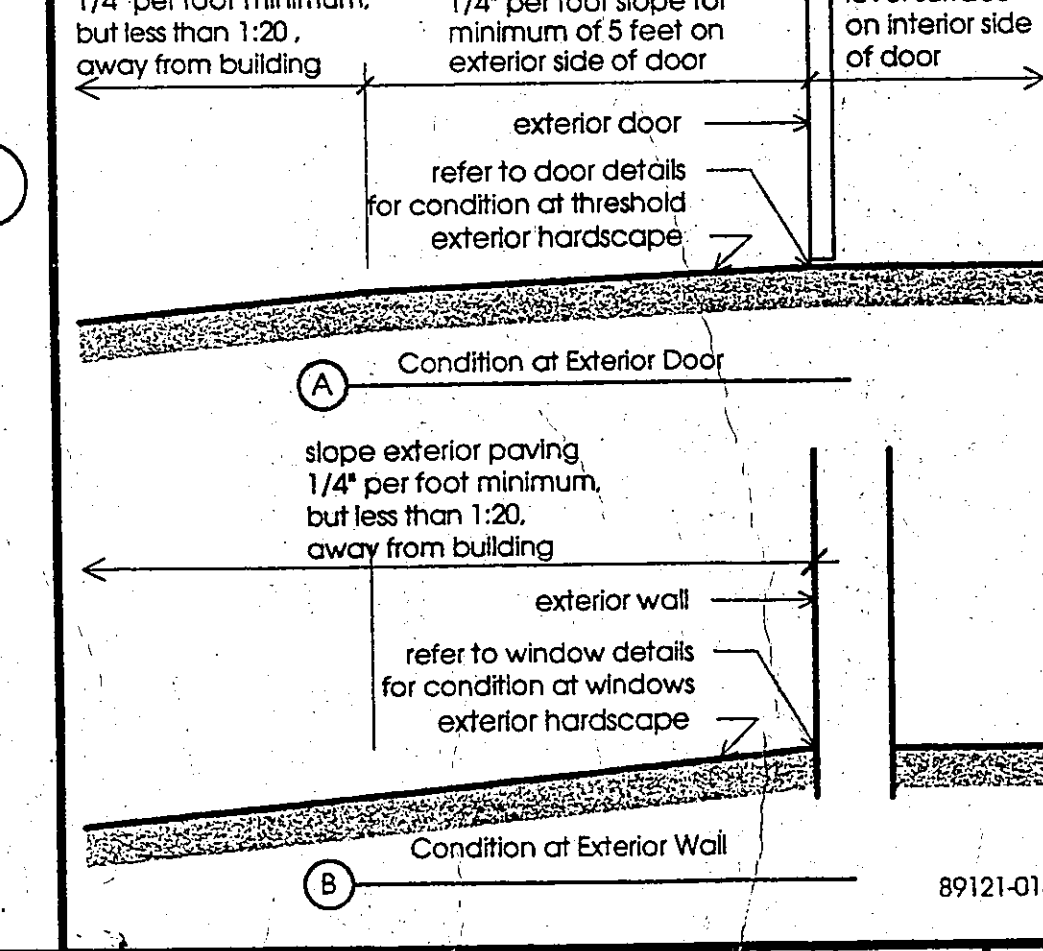
MIGRATION MAP SEATWALL Scale: 1" = 1'-0" 14



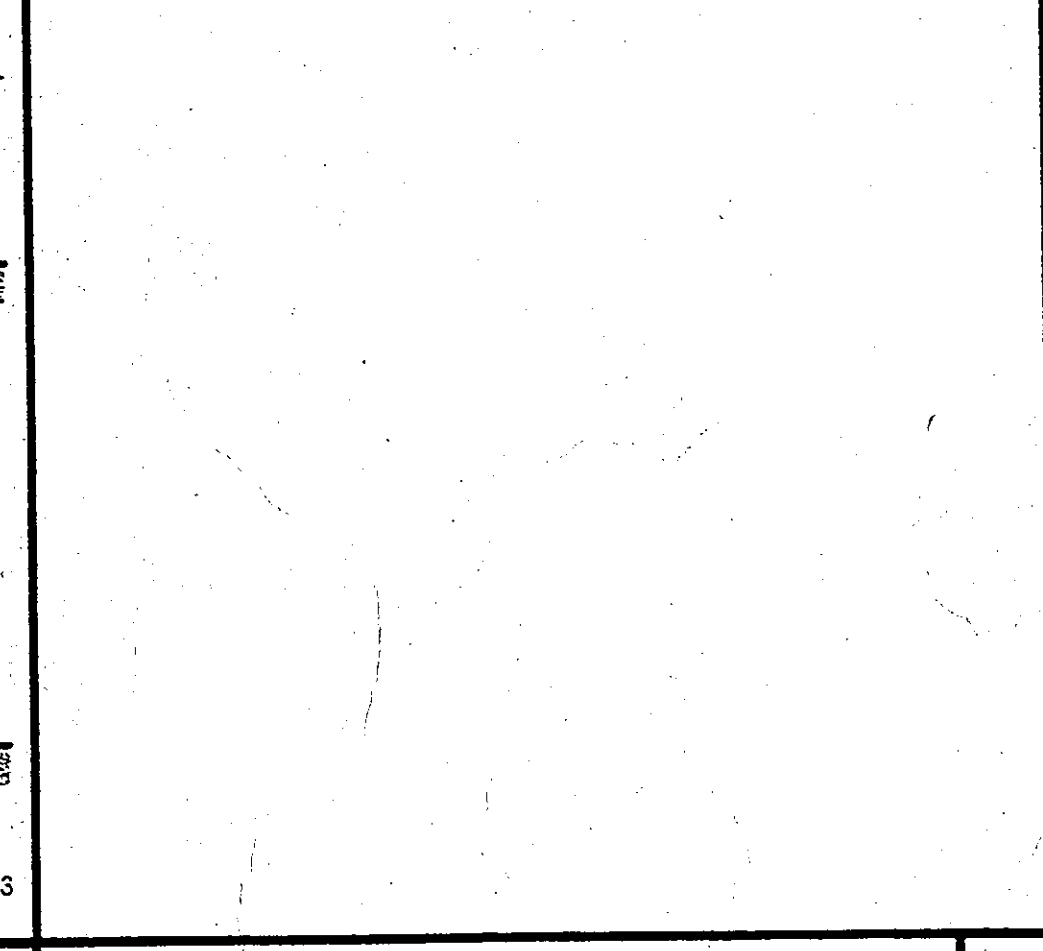
PAVING AREA DRAIN Scale: 1 1/2" = 1'-0" 21



PLANTING AREA DRAIN Scale: none 28

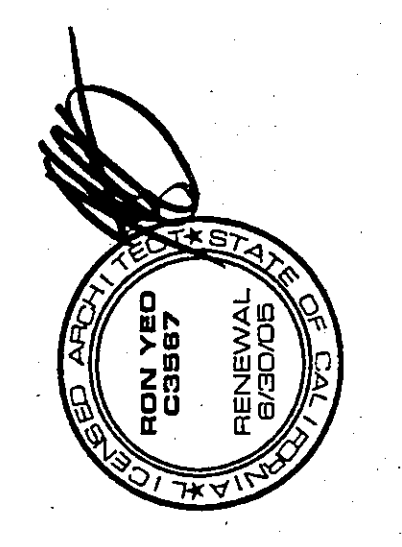


HARDSCAPE @ BLDG. Scale: 1/1/2" = 1'-0" 34



DETAIL TITLE Scale: 1/1/2" = 1'-0" 35

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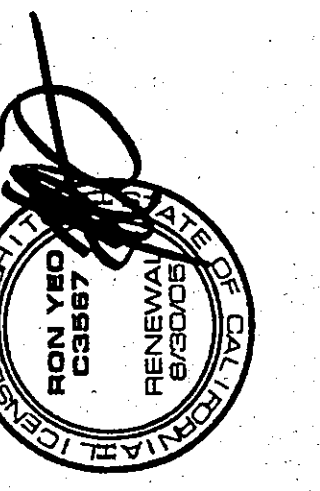
12/23/03 update revisions

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

Hardscape Details & Sections

DRAWN: PM/IMG
 CHECKED: RY
 DATE: 2/1/99
 SCALE: (as noted)
 JOB NO.: 95-120
 SHEET

H-4
 5 OF 67 SHEETS



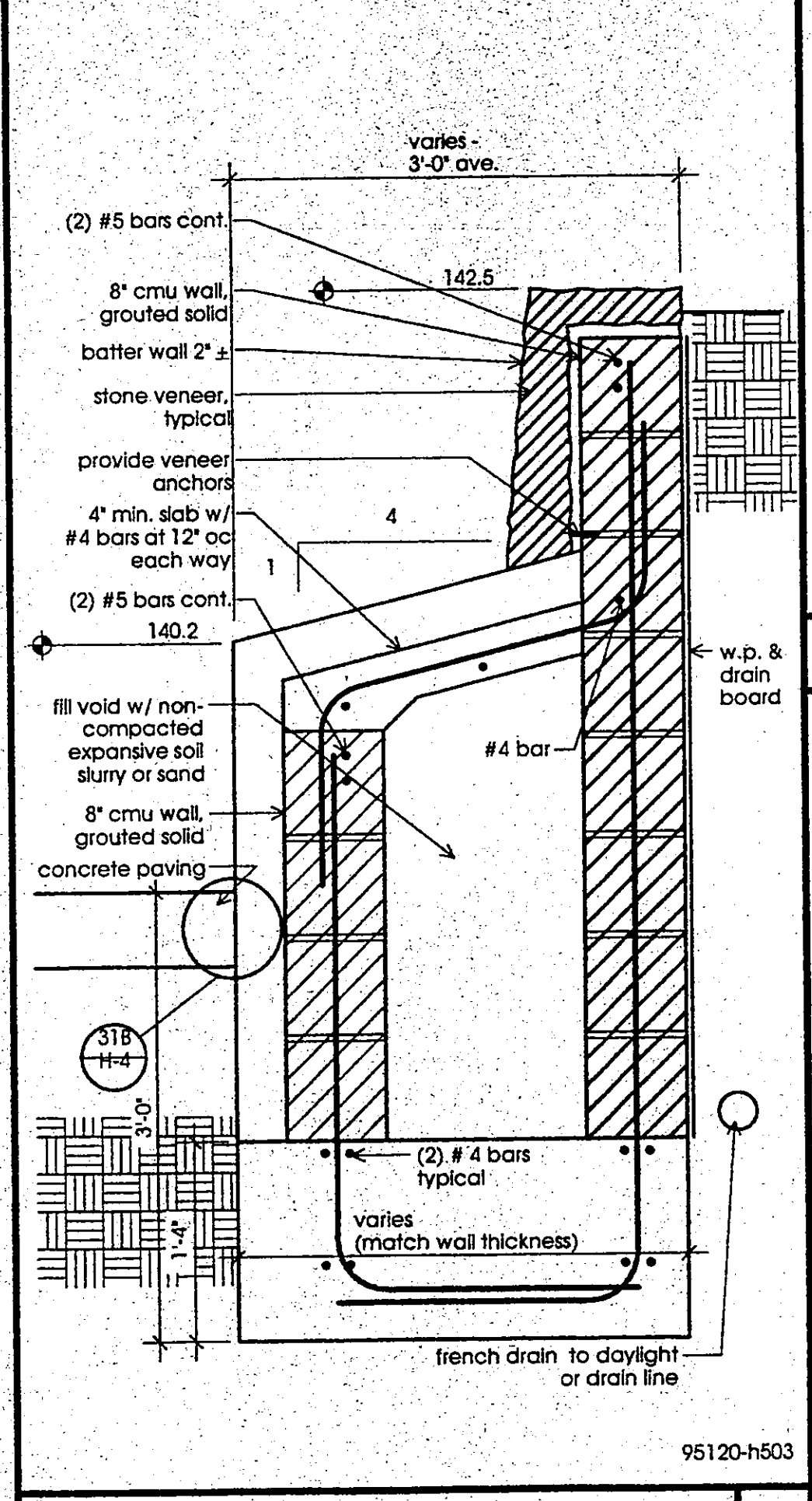
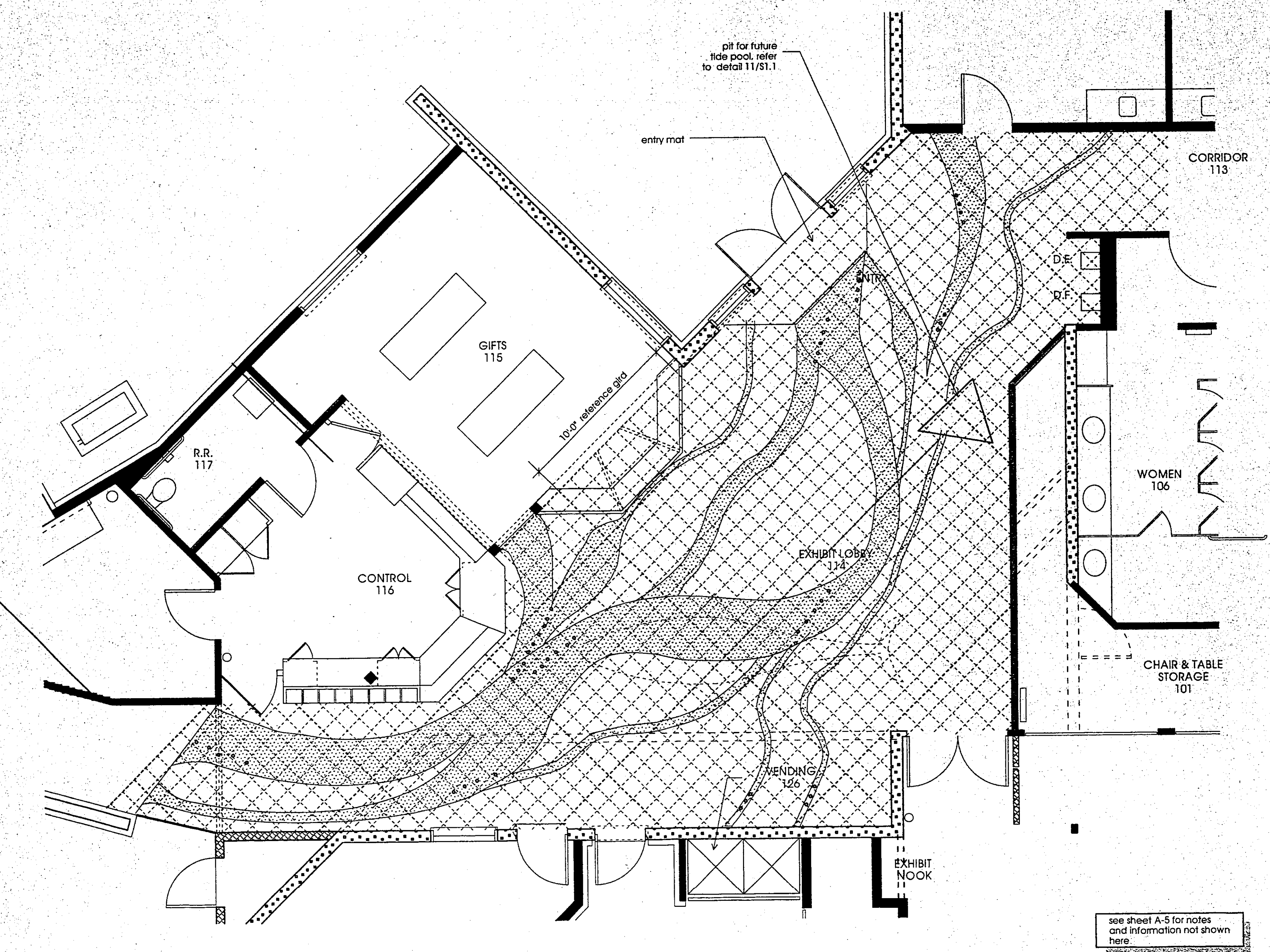
12/23/03 update revisions

POINT VICENTE INTERPRETIVE
 CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

Hardscape/
 Carpet
 Drawings

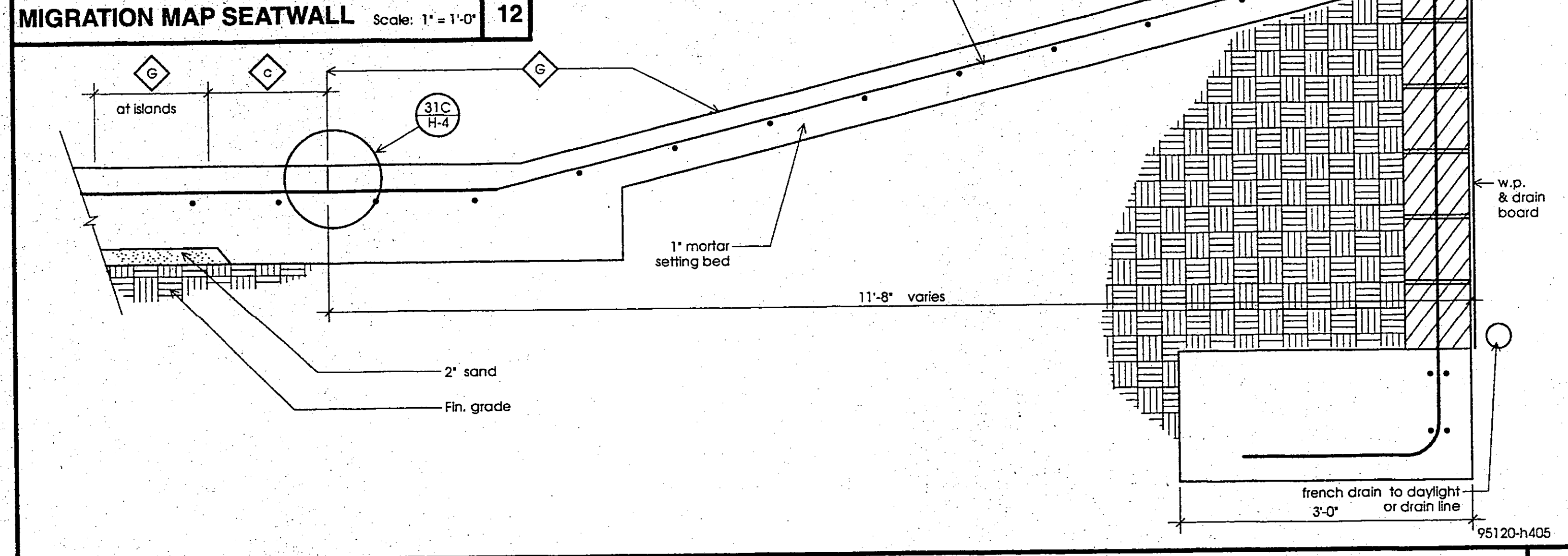
DRAWN
CHECKED
DATE
SCALE
JOB NO.
SHEET

H-5

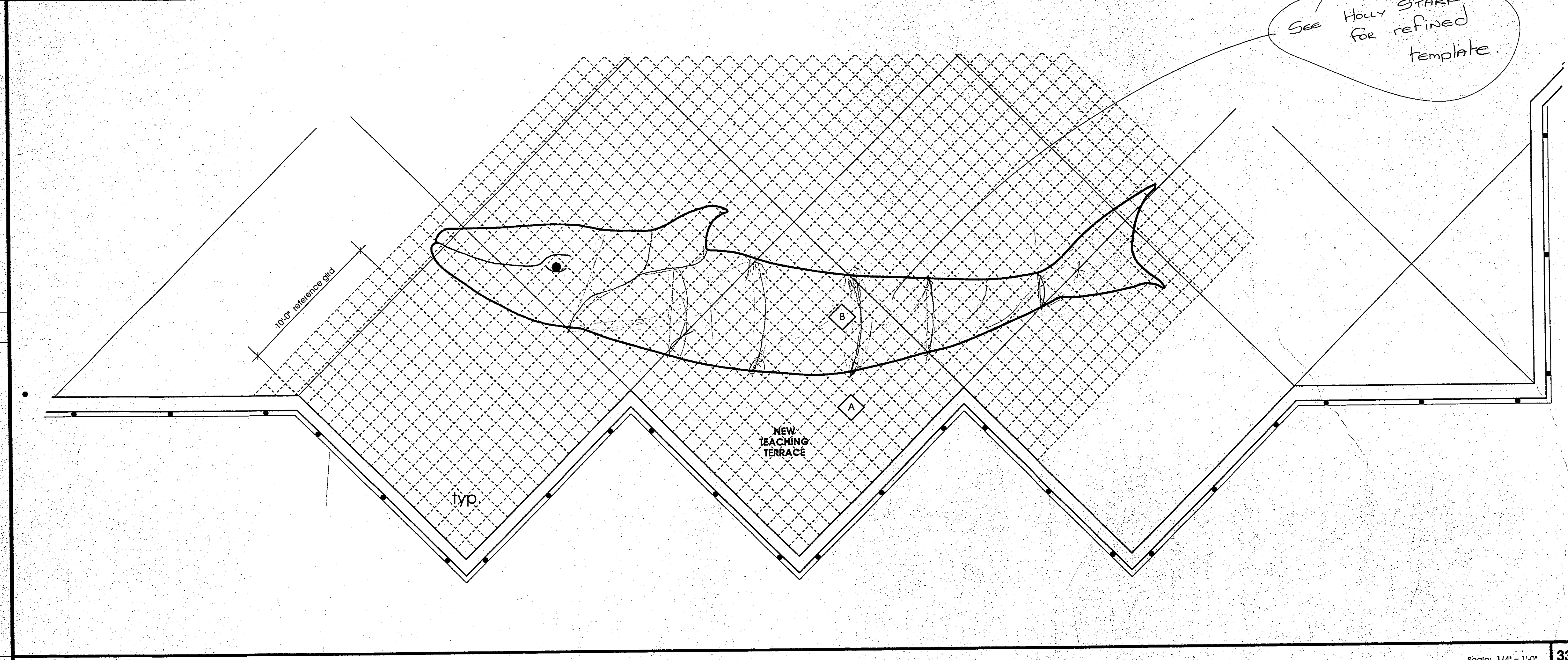


DETAIL TITLE Scale: 1/1/2" = 1'-0" 6

DETAIL TITLE Scale: 1/1/2" = 1'-0" 7



CARPET LAYOUT Scale: 1/4" = 1'-0" 18



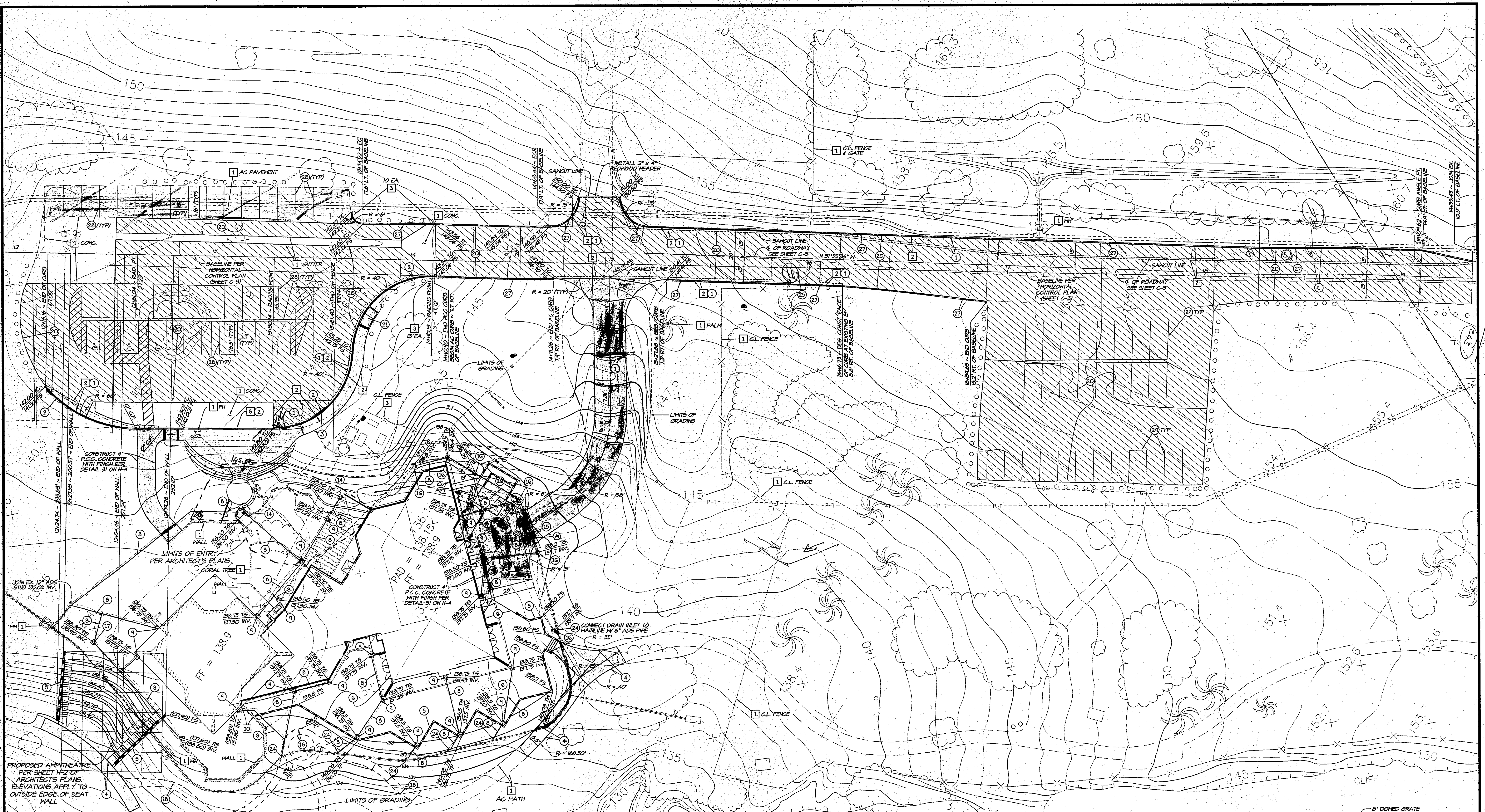
CONCRETE SLOPED PAVING AT "ALASKA" (deduct alternate) Scale: 1" = 1'-0" 21

SYMBOL	DESCRIPTION	COLOR	FINISH	REMARKS
A	Teaching Terrace "Field"	Natural Gray, stain: <i>Blackberry</i>	Exposed Finish Medium Sandblast embedment	<i>Abalone</i> Hand seed Aggregate Sealed
B	Teaching Terrace Large Whale	Natural Gray, stain: <i>Blackberry</i>	Light Sandblast	<i>Patina Stain</i> Sealed
C	Entry Plaza "Field"	Natural Gray, stain: <i>Bluegrass</i>	Exposed Finish Light Sandblast Blue Glass	Hand seed Aggregate Sealed
X	Entry Plaza Whales	Natural Gray, no stain	Smooth Impressions	Small Whale
D	Entry Platform "Field"	Natural Gray, stain: <i>Bluegrass</i>	Exposed Finish Light Sandblast	<i>Abalone</i> Sea Shell embedment Sealed
F	Entry Platform "Tails"	Natural Gray, stain: <i>Bluegrass</i>	Light Sandblast	<i>Patina Stain</i> Sealed
G	Entry Plaza Landform (Deduct-Alternate)	Integral color "Saddle Brown" FLAG STONE	Water Wash	Exposed Pea Gravel

Wally Stearns

TERRACE WHALE Scale: 1/4" = 1'-0" 33

ENRICHED PAVING SCHEDULE 35



SYMBOL OF ACCESSIBILITY
SEE DETAIL THIS SHEET.

VAN STALL

PASSENGER CAR STALL

NOTE
ALL STRIPES SHALL BE BLUE PAINT. BLUE PAINT SHALL BE "AMERITONE" T800 BLUE OR APPROVED EQUAL.

DISPOSITION NOTES:

- PROTECT IN PLACE.
- REMOVE EXISTING HOOD BOLLARDS.
- REMOVE EXISTING A.C. SIDEWALK.
- REMOVE EXISTING TREE.
- REMOVE EXISTING P.C.C. CURB.
- REMOVE EXISTING P.C.C. SIDEWALK.
- REMOVE EXISTING WALL.

NOTES:

- ALL STROKES TO BE 3" WIDE.
- PROVIDE 2 COATS OF PAINT.
- SYMBOL COLOR TO BE WHITE ON A BLUE BACKGROUND.
- LOCATE SYMBOL AT CENTER OF STALL WHERE SHOWN ON SITE PLAN.

ADDITIONAL ACCESSIBILITY SIGNAGE REQUIREMENTS:
EACH PARKING SPACE RESERVED FOR THE HANDICAPPED, AS SHOWN PER THE SITE PLAN, SHALL BE IDENTIFIED BY A PERMANENTLY AFFIXED REFLECTORIZED SIGN CONSTRUCTED OF PORCELAIN ON STEEL BEADED TEXT, OR EQUAL, DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SIGN SHALL NOT BE SMALLER THAN 10 SQUARE INCHES IN AREA AND SHALL BE CENTERED AT THE INTERIOR END OF THE PARKING STALL AT A MINIMUM HEIGHT OF 80 IN. FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE.

A SIGN SHALL ALSO BE POSTED, IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO THE OFF-STREET PARKING FACILITY, NOT LESS THAN 10' X 22' IN SIZE WITH LETTERING NOT LESS THAN 1/2" IN HEIGHT, WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING:

"UNAUTHORIZED VEHICLES NOT DISPLAYING DISTINGUISHED PLACARDS OR LICENSE PLATES ISSUED FOR PHYSICALLY HANDICAPPED PERSONS MAY BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT _____ OR BY TELEPHONING _____."

CONSTRUCTION NOTES:

- CONSTRUCT 1" A.C. OVER COMPACTED NATIVE.
- CONSTRUCT 6" P.C.C. CURB TYPE A14, PER ALPHA STD. 120-1.
- CONSTRUCT 4" P.C.C. SIDEWALK PER ALPHA STD. 115-1.
- CONSTRUCT 4" A.C. PATH.
- CONSTRUCT WALL PER DETAIL 12 ON SHEET H-4.
- CONSTRUCT TERRACE PAVING PER DETAIL 31 ON SHEET H-4.
- CONSTRUCT 6" ADS N-12 PIPE INCLUDING ALL FITTINGS.
- CONSTRUCT DRAIN INLET PER DETAIL 21 ON SHEET H-4.
- CONSTRUCT DRAIN INLET PER DETAIL 20 ON SHEET H-4.
- CONSTRUCT 12" ADS N-12 PIPE INCLUDING ALL FITTINGS.
- CONSTRUCT 8" DRAIN BASIN W/ 6" DOMED GRATE PER ADS STDS AND PER DETAIL HEREON.
- CONSTRUCT 10" DRAIN BASIN W/ 10" X 10" SQUARE GRATE PER ADS STDS.
- CONSTRUCT 6" DECOMPOSED GRANITE.
- CONSTRUCT 1" A.C. OVERLAY.
- CONSTRUCT SIDEWALK ACCESS RAMP PER ALPHA STD. III-2, CASE B, TYPE I, SECTION B.8, DETAIL 12, MODIFIED (RAMP ONLY TO WEST).
- INSTALL 12" X 6" ADS N-12 NYE, PART NO. 120-AN.
- REMOVE EXISTING AND REPLACE WITH 1" A.C. PAVEMENT OVER COMPACTED NATIVE.
- CONSTRUCT TRASH ENCLOSURE PER DETAIL ON SHEET C-2.
- CONSTRUCT 6" A.C. CURB.
- CONSTRUCT 4" WHITE PAVEMENT STRIPING FOR PARKING STALLS.
- REPLACE EXISTING PAVEMENT STRIPING IN KIND.

NOTES:

- REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING PLANS.
- REFER TO LANDSCAPE DRAWINGS FOR IRRIGATION IMPROVEMENTS TO BE PROTECTED OR RELOCATED.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY CHEN'S GEOTECH DATED OCTOBER 24, 1991, WITH ADDITIONS.
- APPROVED EROSION CONTROL MEASURES SHALL BE IN PLACE AND MAINTAINED THROUGHOUT THE RAINY SEASON FROM OCTOBER 15 TO APRIL 15.
- STORM WATER POLLUTION PREVENTION BEST MANAGEMENT PRACTICES SHALL BE FOLLOWED AT ALL TIMES.
- WHEREVER "ADS N-12 PIPE" IS SPECIFIED, THE SAME OR APPROVED EQUAL SHALL BE USED.
- THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL MEASURES. WATER ACTIVE SITES AT LEAST TWICE DAILY. SUSPEND ALL EXCAVATING AND GRADING OPERATIONS WHEN WIND SPEEDS EXCEED 25 MPH.

DOMED GRATE DETAIL
N.T.S.

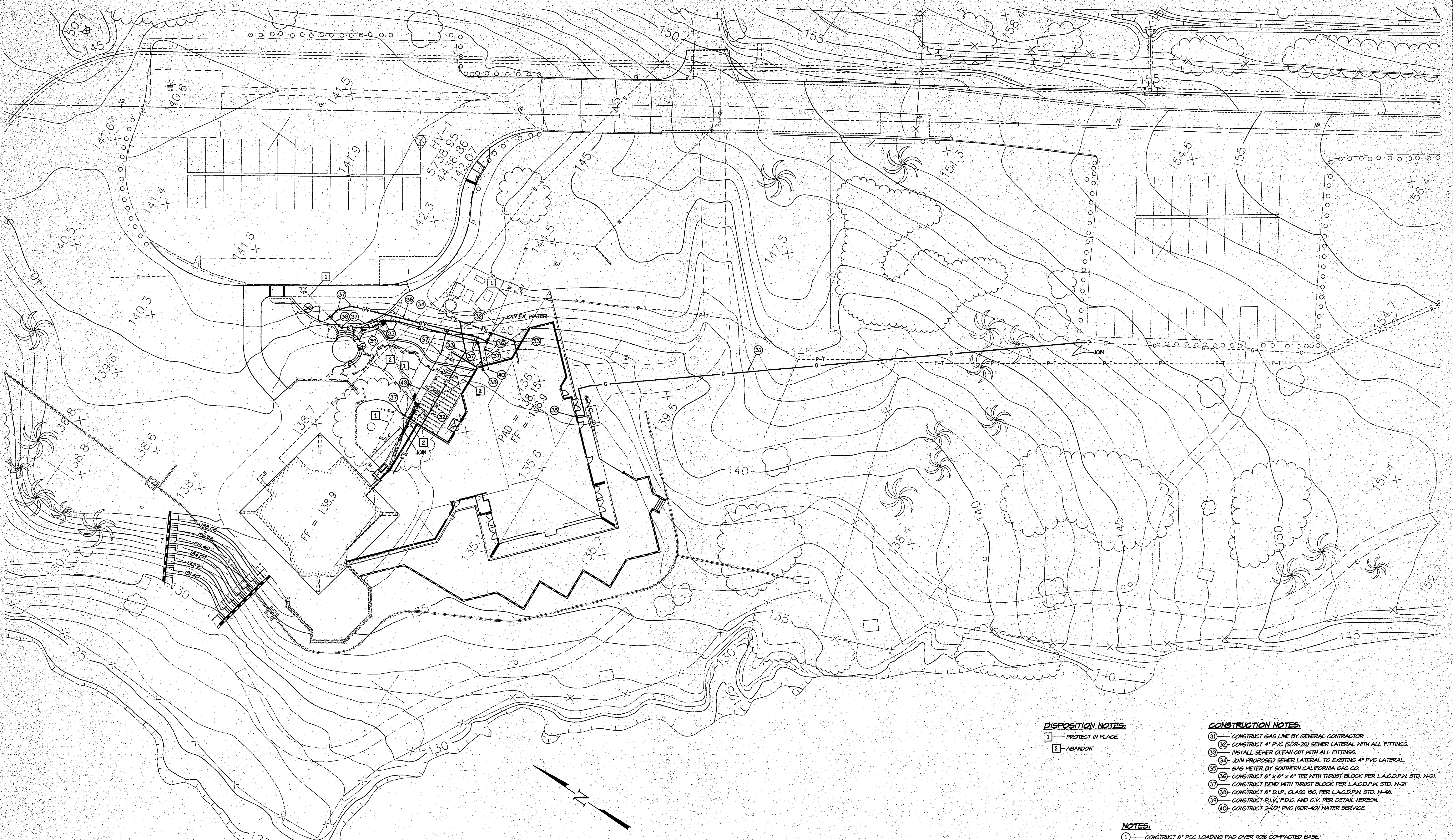
TABLE OF COURSES AND CURVE DATA

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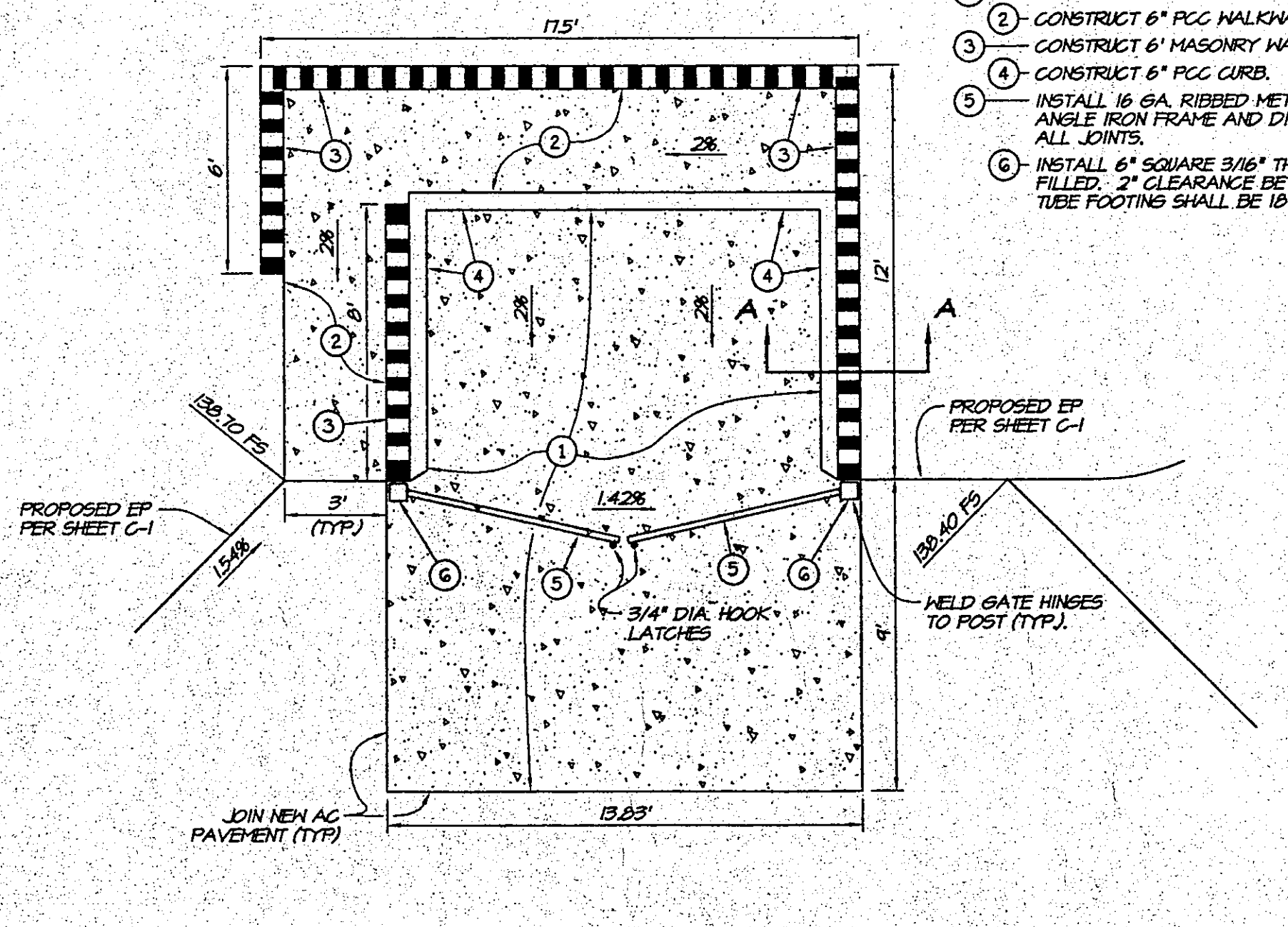
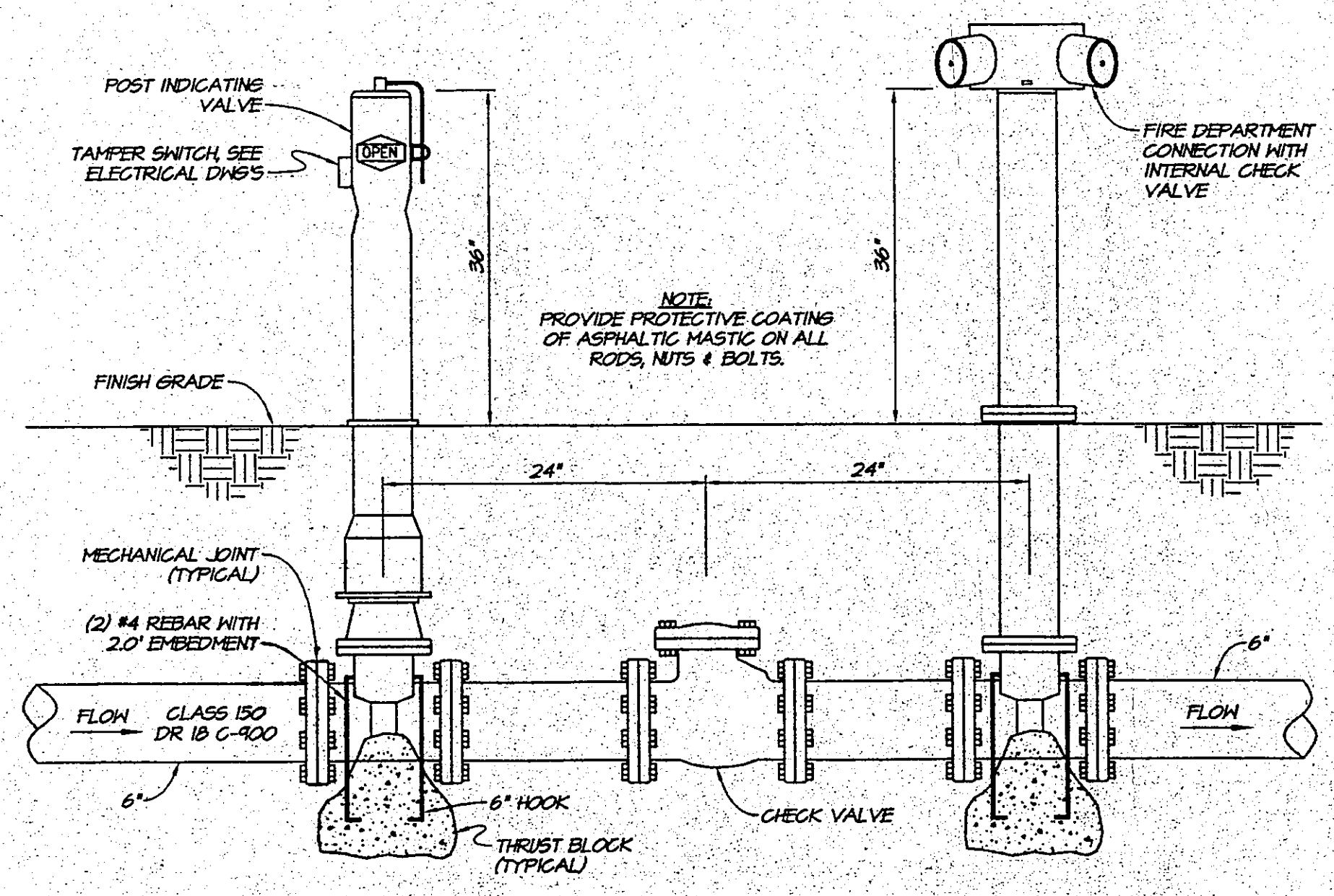
EARTHWORK (CY)

	CUT	FILL	NET
BUILDING PAD	10	1080	1070
SITE GRADINGS	275	275	0

24,645 = 158 lbs
3910 = 171 lbs
5F x 2 x 0.0625
Asphalt
Tons



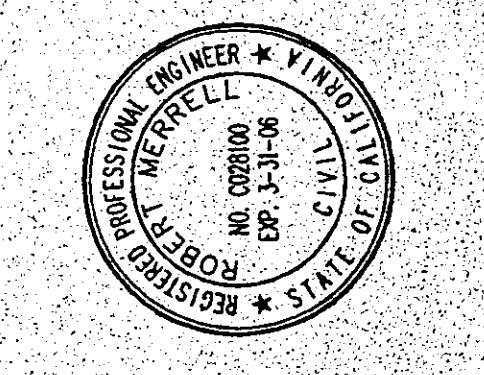
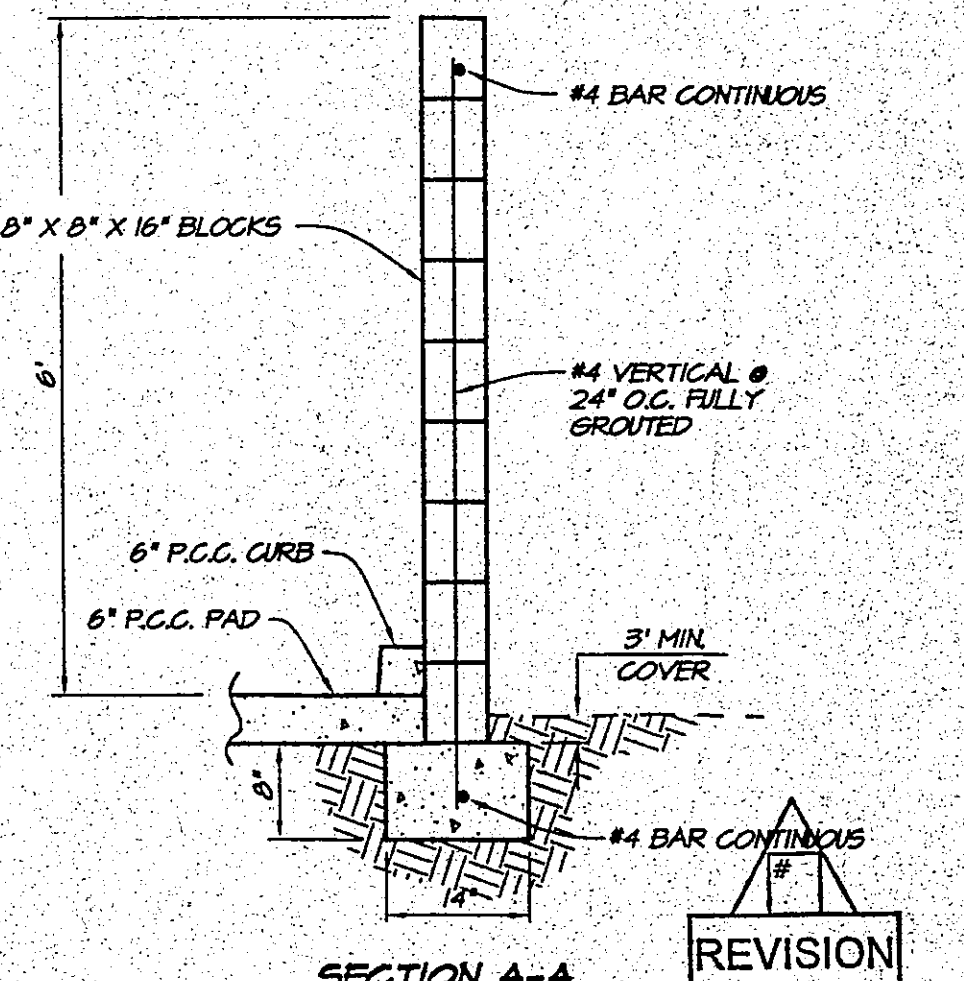
- NOTES:**
- REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING PLANS.
 - REFER TO LANDSCAPE DRAWINGS FOR IRRIGATION IMPROVEMENTS TO BE PROTECTED OR RELOCATED.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY CHENS GEOTECH DATED OCTOBER 24, 1991, WITH ADDITIONS.
 - APPROVED EROSION CONTROL MEASURES SHALL BE IN PLACE AND MAINTAINED THROUGHOUT THE RAINY SEASON FROM OCTOBER 15 TO APRIL 15.
 - STORM WATER POLLUTION PREVENTION BEST MANAGEMENT PRACTICES SHALL BE FOLLOWED AT ALL TIMES.
 - WHENEVER "AS D-I PIPE" IS SPECIFIED, THE SAME OR APPROVED EQUAL SHALL BE USED.
 - THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL MEASURES. WATER ACTIVE SITES AT LEAST THICE DAILY. SUSPEND ALL EXCAVATING AND GRADING OPERATIONS WHEN WIND SPEEDS EXCEED 25 MPH.



- DISPOSITION NOTES:**
- PROTECT IN PLACE
 - ABANDON

- CONSTRUCTION NOTES:**
- CONSTRUCT GAS LINE BY GENERAL CONTRACTOR.
 - CONSTRUCT 4" PVC (SDR-26) SENE LATERAL WITH ALL FITTINGS.
 - INSTALL SENE CLEAN OUT WITH ALL FITTINGS.
 - JOIN PROPOSED SENE LATERAL TO EXISTING 4" PVC LATERAL.
 - GAS METER BY SOUTHERN CALIFORNIA GAS CO.
 - CONSTRUCT 6" x 6" x 6" TEE WITH THRUST BLOCK PER L.A.G.D.P.M. STD. H-21.
 - CONSTRUCT BEND WITH THRUST BLOCK PER L.A.G.D.P.M. STD. H-21.
 - CONSTRUCT 4" D.I.P., CLASS 150, PER L.A.G.D.P.M. STD. H-46.
 - CONSTRUCT R.I.V., F.D.C. AND C.V. PER DETAIL HEREON.
 - CONSTRUCT 2-1/2" PVC (SDR-40) WATER SERVICE.

- NOTES:**
- CONSTRUCT 6" P.C.C. LOADING PAD OVER 40% COMPACTED BASE.
 - CONSTRUCT 6" P.C.C. WALKWAY.
 - CONSTRUCT 6" MASONRY WALL (8" x 8" x 16" BLOCKS).
 - CONSTRUCT 6" P.C.C. CURB.
 - INSTALL 16 GA. RIBBED METAL GATES WITH 2" x 2" x 1/4" STEEL ANGLE IRON FRAME AND DIAGONAL BRACING. CONTINUOUS HELD ALL JOINTS.
 - INSTALL 6" SQUARE 3/16" THICK STEEL JAMB TUBES, CONCRETE FILLED, 2" CLEARANCE BETWEEN TUBES AND WALLS. GATE POST/ TUBE FOOTING SHALL BE 16" DIA. X 36".



REVISIONS

NO.	DESCRIPTION
1	CHANGED WATER SENE AND GAS LINE ALIGNMENTS

POINT VICENTE INTERPRETIVE CENTER EXPANSION
31501 Pinos Verdes Drive West
Rancho Palms Verdes, CA

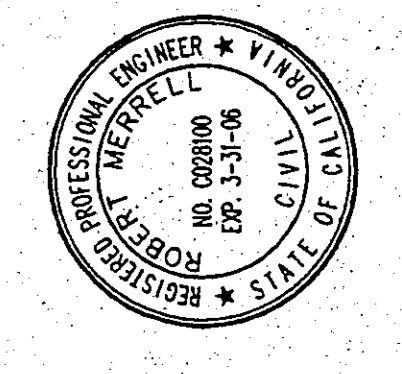
UTILITY PLAN
(REVISED 12-21-2004)



TABLE OF COURSES AND CURVE DATA

ID	BEARING/DELTA	RADIUS	LENGTH
A	02°04'12"	500'	10.06'
B	N83°54'40"W	-	24.22'
C	01°54'39"	500'	17.40'
D	N82°00'04"W	-	55.91'
E	S6°30'48"	50.00'	51.21'
F	N67°58'00"W	-	28.84'

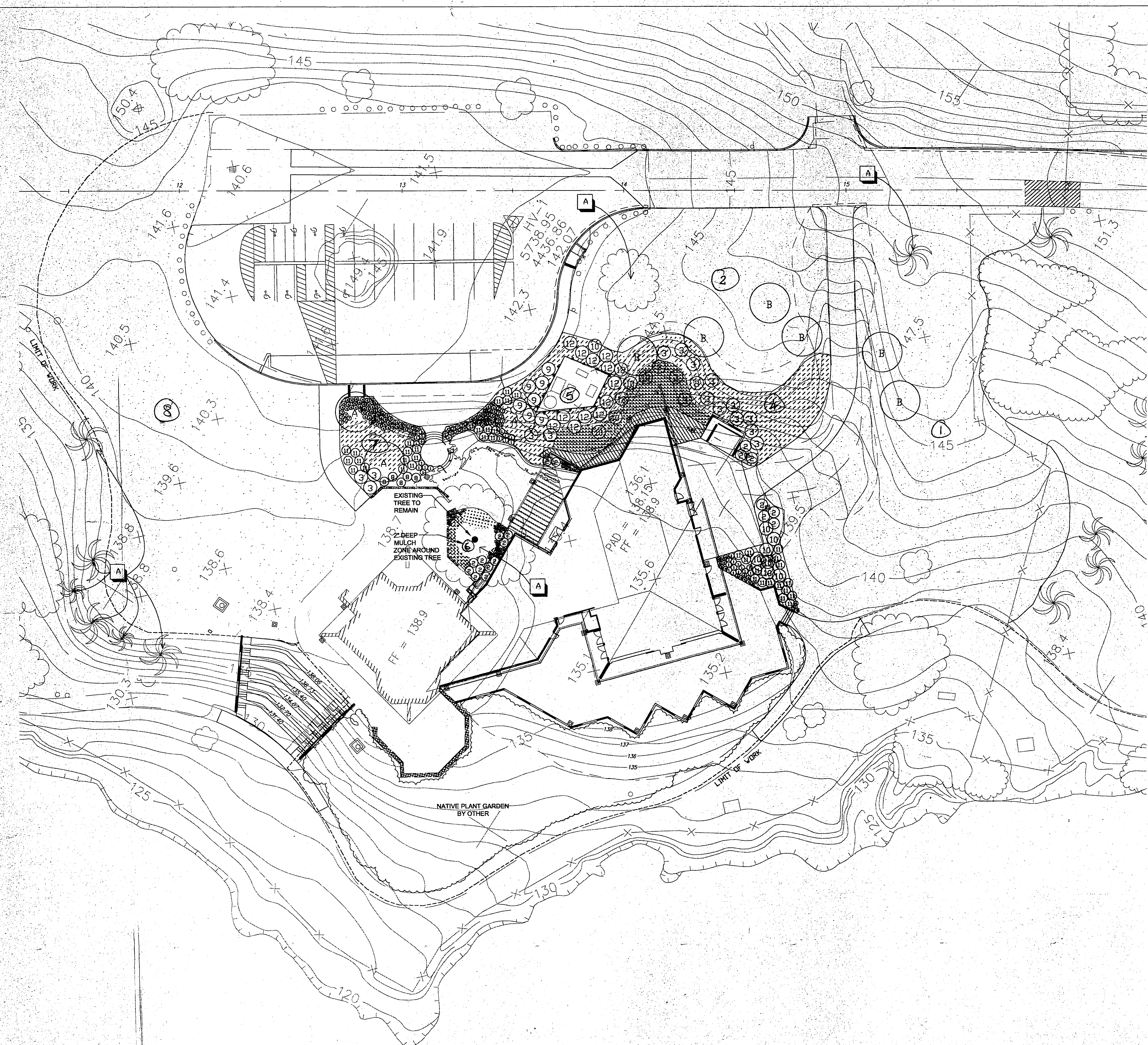
PREPARED UNDER THE SUPERVISION OF:
Ralph Merrell 2/14/04
 LICENSED PROFESSIONAL ENGINEER
 CIVIL ENGINEERING, INC.
 2100 W. Orangewood Ave., Suite 110, Orange, CA 92668 (714) 935-0239



POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

HORIZONTAL CONTROL PLAN

DRAWN: J. SINGHIA
 CHECKED: R. MERRELL
 DATE: NOVEMBER 2003
 SCALE: 1" = 40'
 JOB NO: 03-24
 SHEET: C-3
 9 OF 69 SHEETS



PLANTING LEGEND

TREES

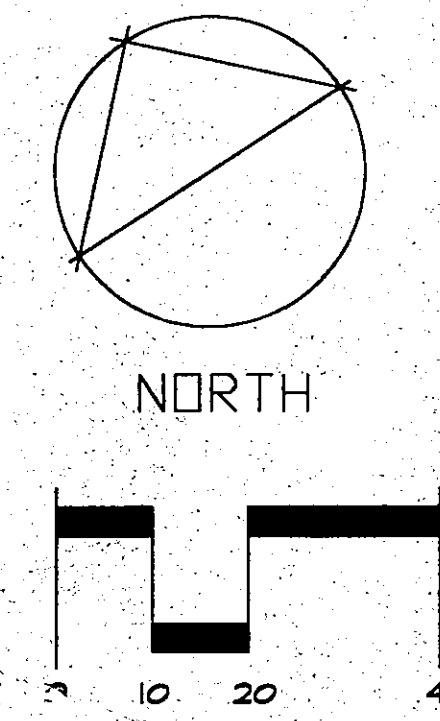
BOTANICAL NAME	COMMON NAME	SIZE
ARBUTUS UNEDO 'MARINA'	MARINA STRAWBERRY TREE	24" BOX LOW BRANCHED
FINUS HALEPENSIS	ALEPPO PINE	24" BOX

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPEC.	COMMENT
1	ALOE STRIATA	CORAL ALOE	5 GALLON	8" FULL	
2	ARBUTUS UNEDO 'COMPACTA'	STRAWBERRY TREE (COMPACT FORM)	5 GALLON	2H X 2' DIA	
3	MELALEUCA NESOPHILA	PINK MELALEUCA	5 GALLON	2.5' H X 2.5' DIA	
4	HELICTOTRICHON SEMPERVIRENS	BLUE CAT GRASS	1 GALLON	8" FULL	
5	NOT USED				
6	LIRIOPE GIGANTEA	LILY TURF	5 GALLON	12" H X 8" FULL	
7	PHORMIUM 'AMAZING RED'	FLAX CULTIVAR	5 GALLON	12" H X 8" FULL	
8	PHORMIUM 'MAORI CHIEF'	FLAX CULTIVAR	5 GALLON	12" H X 8" FULL	
9	MELALEUCA NESOPHILA	PINK MELALEUCA	15 GALLON	3.5' H X 3.5' DIA	
10	RHUS OVATA	LEMONADE BERRY	5 GALLON	3' H X 2' DIA	AVAILABLE FROM THEO PAYNE 818 768 1822
11	SALVIA 'WINFRED GILMAN'	'WINFRED GILMAN' SAGE	5 GALLON	3' H X 3' DIA	AVAILABLE FROM THEO PAYNE 818 768 1822
12	RHUS OVATA	SUGAR BUSH	15 GALLON	4' H X 30" DIA	AVAILABLE FROM THEO PAYNE 818 768 1822
▼	DISTICTIS BUCCINATORIA	BLOOD RED TRUMPET VINE	5 GALLON	4H X 12" FULL	
▨	COTONEASTER LOWFAST	LOWFAST BARBERRY	1 GALLON @ 36"	12" FULL	PLANT FIVE FOOT CLEAR FROM THE BASE OF BLUE CAT GRASS, PHORMIUM AND ALOE PLANTINGS. PLANT SIX FOOT FROM THE BASE OF ALL TREES, AND LEMONADEBERRY, SAGE AND MELALEUCA PLANTINGS.
▨	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	1 GALLON @ 18" O.C.	12" FULL	PLANT THREE FOOT CLEAR FROM THE BASE OF MELALEUCA AND LEMONADEBERRY.
▨	MARATHON II	SEEDED TURF			THE FOLLOWING SHALL BE INCORPORATED INTO THE SLURRY FOR THE HYDROSEED MIX—(FOR BIDDING PURPOSES ONLY, TO BE CONFIRMED BY AN AGRONOMIST AFTER THE SOILS ANALYSIS IS COMPLETED.) • TURF SEED MIX @ 10 LBS. PER 1,000 SQ. FT. • WOOD CELLULOSE FIBER @ 1800 LBS. PER ACRE • N BINDER - 120 LBS. PER ACRE • N-20-20 FERTILIZER @ 200 LBS. PER 1000 SQ. FT. • AGRICULTURAL GYPSUM @ 500 LBS. PER ACRE • UREAFORM (38-0-0, WIN 27%) @ 150 LBS. PER ACRE
▨	4" DIA. SMOOTH COBBLE TO BE SELECTED BY LANDSCAPE ARCHITECT				AVAIL. THRU SOUTHWEST BOULDER & STONE (800) 540 1147. FINISHED SURFACE TO BE FLUSH WITH ADJACENT SOIL. WET DOWN AND COMPACT WITH HAND ROLLER.
▨	2" THICK DECOMPOSED GRANITE TO BE SELECTED BY LANDSCAPE ARCHITECT				AVAIL. THRU SOUTHWEST BOULDER & STONE (800) 540 1147. FINISHED SURFACE TO BE FLUSH WITH ADJACENT SOIL. WET DOWN AND COMPACT WITH HAND ROLLER.

A EXISTING TREE PROTECTION

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING TREES (CORAL TREE, PINE TREE NEAR PARKING LOT, AND ALL CANARY PALMS) PRIOR TO DEMOLITION OR CONSTRUCTION, BY STAKING 3' HIGH PLASTIC TEMPORARY FENCING AROUND THE TREE CIRCUMFERENCE, 10' MINIMUM RADIUS FROM THE TREE TRUNK. THE INTENT OF FENCING AROUND THE TREE IS TO ELIMINATE / MINIMIZE SOIL COMPACTION, MATERIAL STORAGE AND DUMPING UNDER THE TREE CANOPY.



BOB VEO, FULTY ARCHITECT INC.
 2001 JONAS DRIVE, SUITE 100
 PALMDALE, CA 91366
 (818) 868-8800 FAX
 (818) 868-8800 FAX



JON DAVID CICHETTI
 LANDSCAPE ARCHITECT
 2001 JONAS DRIVE, SUITE 100
 PALMDALE, CA 91366
 (818) 868-8800 FAX

POINT VICENTE INTERPRETIVE
 CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

Planting Plan

DRAWN	LD
CHECKED	JDC
DATE	2-12-04
SCALE	1"=20'-0"
JOB. NO.	232
SHEET	

IRRIGATION LEGEND

SYMBOL	MFG	MODEL NO.	DESCRIPTION	RADIUS	GPM	PSI
●	RAINBIRD	1812-SAM-PRS-8Q	POP-UP SPRAY	8"	26	30
○	RAINBIRD	1812-SAM-PRS-8H	POP-UP SPRAY	8"	52	30
○	RAINBIRD	1812-SAM-PRS-8F	POP-UP SPRAY	8"	1.05	30
○	RAINBIRD	1812-SAM-PRS-12Q	POP-UP SPRAY	12"	65	30
○	RAINBIRD	1812-SAM-PRS-12H	POP-UP SPRAY	12"	1.30	30
○	RAINBIRD	1812-SAM-PRS-12F	POP-UP SPRAY	12"	2.60	30
○	RAINBIRD	1812-SAM-PRS-15Q	POP-UP SPRAY	15"	92	30
○	RAINBIRD	1812-SAM-PRS-15H	POP-UP SPRAY	15"	1.85	30
○	RAINBIRD	1812-SAM-PRS-15F	POP-UP SPRAY	15"	3.70	30
○	RAINBIRD	1812-SAM-PRS-5Q	POP-UP SPRAY	5"	1.10	30
○	RAINBIRD	1812-SAM-PRS-5H	POP-UP SPRAY	5"	2.20	30
○	RAINBIRD	1804-SAM-PRS-8Q	POP-UP SPRAY	8"	26	30
○	RAINBIRD	1804-SAM-PRS-8H	POP-UP SPRAY	8"	52	30
○	RAINBIRD	1804-SAM-PRS-8F	POP-UP SPRAY	8"	1.05	30
○	RAINBIRD	1804-SAM-PRS-15Q	POP-UP SPRAY	15"	92	30
○	RAINBIRD	1804-SAM-PRS-15H	POP-UP SPRAY	15"	1.85	30
○	RAINBIRD	1804-SAM-PRS-15F	POP-UP SPRAY	15"	3.70	30
○	RAINBIRD	1804-SAM-PRS-5Q-B	POP-UP STREAM BUBBLER	5"	5.70	30
○	RAINBIRD	1804-SAM-PRS-5CST-B	POP-UP STREAM BUBBLER	5"	.50	30

- USE PCS SCREENS TO ADJUST RADIUS. NO OVERSPRAY IS ALLOWED. CONTRACTOR MAY SUBSTITUTE TORO 10' NOZZLES AS NEEDED IN PLACE OF 8' NOZZLES.
- RAINBIRD 5004-PC-SAM-1.0 ROTOR 25' .80 35
- RAINBIRD 5004-PC-SAM-2.0 ROTOR 26' 1.77 35
- RAINBIRD 5004-FC-SAM-4.0 ROTOR 28' 3.84 35
- RAINBIRD 5004-PC-SAM-1.0 ROTOR 28' .97 35
- RAINBIRD 5004-PC-SAM-2.0 ROTOR 32' 1.99 35
- RAINBIRD 5004-FC-SAM-4.0 ROTOR 37' 3.86 35
- RAINBIRD 5004-PC-SAM-1.0 ROTOR 25' .80 35
- RAINBIRD 5004-PC-SAM-2.0 ROTOR 26' 1.77 35
- RAINBIRD 5004-FC-SAM-4.0 ROTOR 28' 3.84 35
- RAINBIRD 5004-PC-SAM-1.0 ROTOR 28' .97 35
- RAINBIRD 5004-PC-SAM-2.0 ROTOR 32' 1.99 35
- RAINBIRD 5004-FC-SAM-4.0 ROTOR 37' 3.86 35
- 2 1/2" GRISWOLD 2230 MASTER VALVE / PRESSURE REGULATOR.
- EXISTING 4" REDUCED PRESSURE TYPE BACKFLOW DEVICE - VERIFY LOCATION IN FIELD.
- 2" (DOMESTIC) EXISTING WATER METER - VERIFY ON SITE FOR EXACT LOCATION.
- NIBCO BRASS BALL VALVE OR EQUAL - LINE SIZE
- RAINBIRD PESB-PRS REMOTE CONTROL VALVE - SIZES INDICATED
- IRRIGATION CONTROLLER - SEE NOTE
- PVC SCH 40 LATERAL LINE - 1 1/2" COVER IN PLANTING AREAS, PVC SCH 40-24" COVER UNDER PAVING.
- PVC SCH. 40 MAINLINE 1 1/2" AND SMALLER CLASS 315 2" AND LARGER - 18" COVER IN PLANTING AREAS/ 24" COVER UNDER PAVING - SIZES INDICATED
- PVC CLASS 200 WIRE SLEEVE - SIZES AND LOCATION BY CONTRACTOR.
- PVC SCHEDULE 40 MAIN AND LATERAL LINE SLEEVE 2 X DIA. OF PIPE.
- INDICATES VALVE NUMBER
- INDICATES CONTROLLER
- INDICATES VALVE GPM
- INDICATES VALVE SIZE
- * CONTRACTOR TO PULL (6) LABELED CONTROL WIRES AND (1) COMMON WIRE TO THESE LOCATIONS FOR FUTURE DEVELOPMENT. LOCATE WIRES WITH A 36" LOOP IN A MARKED VALVE BOX. NOTE THESE LOCATIONS IN CONTROLLER ENCLOSURE.
- Quick Coupler (RFI 80)

IRRIGATION NOTES

DIAGRAMMATIC PLAN
THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS AND JOINT TRENCHES WHEREVER POSSIBLE.

SPRINKLER ADJUSTMENT REQUIRED
THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND PREVENT OVERSPRAY ONTO WALKS AND ROADWAYS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS. CONTRACTOR TO USE PRESSURE COMPENSATING SCREENS WHEN RADIUS IS REDUCED MORE THAN FIFTY PERCENT (50%).

FIELD CONDITIONS
DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS REQUIRED.

SWING JOINTS
INSTALL ALL HEADS WITH TRIPLE SWING JOINTS, USING STREET ELLS, AS PER DETAIL.

MINIMUM PRESSURE AND MAXIMUM GALLONS REQUIRED
THE SPRINKLER SYSTEM DESIGN IS BASED ON A MINIMUM OPERATIONAL PRESSURE AND A MAXIMUM DEMAND AT THE POINT OF CONNECTION, AS NOTED ON THE PLAN. BEFORE INSTALLING THE SYSTEM, CHECK POINT OF CONNECTION AND IMMEDIATELY NOTIFY CONTRACTING OFFICER IF PRESSURE IS NOT AS NOTED OR THE REQUIRED GALLONS PER MINUTE IS NOT AVAILABLE.

WATER LINE UNDER PAVING
ALL MAINLINE UNDER PAVING SHALL BE INSTALLED 24" DEEP. ALL LATERAL LINES UNDER PAVING SHALL BE SCH 40 PVC AND INSTALLED 24" DEEP.

SYSTEM COVERAGE
THE IRRIGATION CONTRACTOR IS TO ADJUST HEAD LOCATIONS IN THE FIELD IN ORDER TO GUARANTEE 100% COVERAGE. CONTRACTOR TO CONTACT THE CONTRACTING OFFICER PRIOR TO ANY MAJOR CHANGES RESULTING IN ADDITIONAL COST TO THE OWNER.

CONTROLLER NOTE 'A'
CONTRACTOR TO INSTALL AN IRRITROL SYSTEMS MC PLUS SERIES (36) STATION IRRIGATION CONTROLLER IN A STAINLESS STEEL ENCLOSURE, MODEL #CA1-IR1-36, BY UNITED GREENTECH. 800 427 0779.
CONTRACTOR TO PROVIDE 110V CONTINUOUS POWER.
INCLUDE WITH CONTROLLER A WCS RAIN GUARD RAIN SHUT OFF DEVICE.
LOCATE IN AN AREA FREE FROM OVERHEAD OBSTRUCTION.
COORDINATE LOCATION WITH CITY REP. AND LANDSCAPE ARCHITECT.

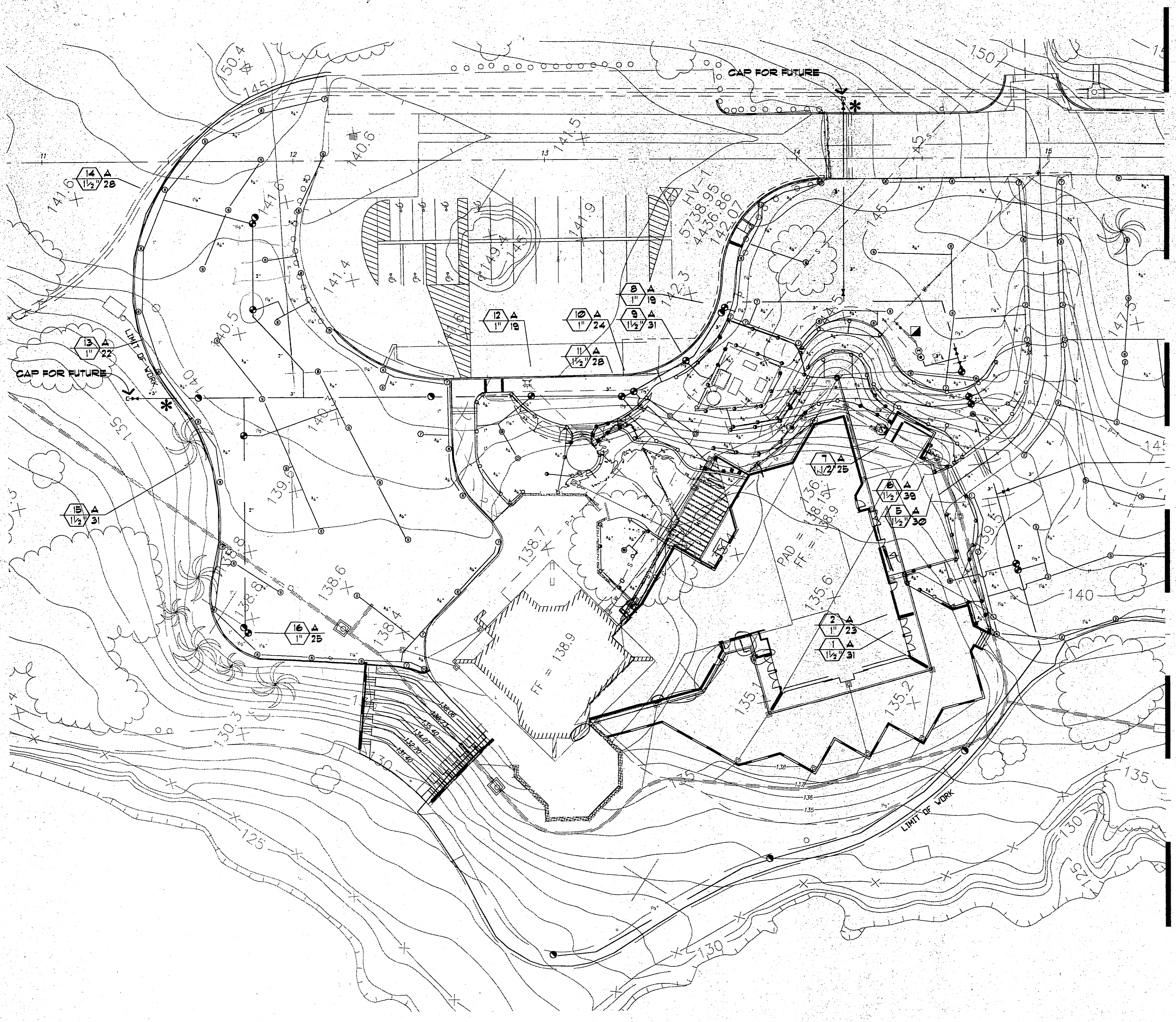
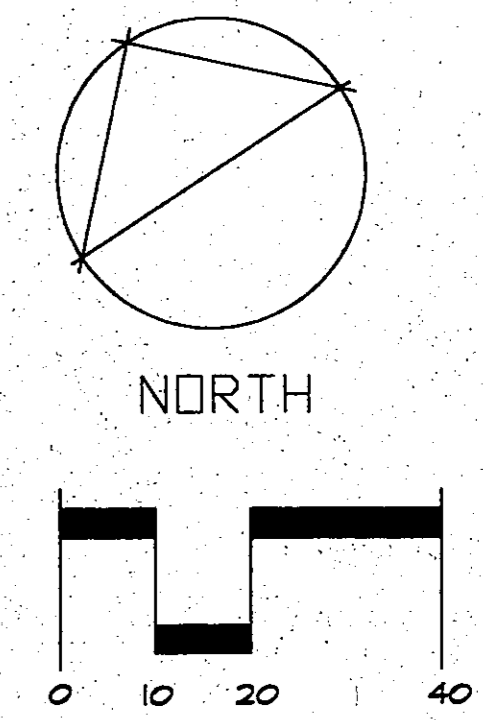
WORST CONDITION CALC.

VALVE A6 @ 39 GPM

SIZE	ITEM	LOSS
2"	EXISTING WATER METER	1.3
2"	EXISTING BACKFLOW DEVICE	13.0
3"	GATE VALVE	1.8
1 1/2"	REMOTE CONTROL VALVE	2.7
3"	CL 315 MAINLINE	0.19
2"	CL 315 MAINLINE	N/A
	SCH 40 PVC LATERAL LINES	4.8
	IRRIGATION HEAD PRESSURE ELEVATION LOSS	N/A
SYSTEM LOSS		53.79
10% RESIDUAL PRESSURE		5.4
TOTAL SYSTEM LOSS		59.19
AVAILABLE PRESSURE		115 PSI
RESIDUAL PSI		+ 55.8 PSI
SET REGULATOR @ 85 PSI WITH A NORMALLY OPEN MASTER VALVE.		

POINT OF CONNECTION 'A'
EXISTING REDUCED PRESSURE TYPE BACKFLOW DEVICE.
CONTRACTOR TO INSTALL A NEW MASTER VALVE / PRESSURE REGULATOR AND MASTER VALVE RELAY TO CONTROLLER.
COORDINATE THESE LOCATIONS WITH OWNER REPRESENTATIVE AND LANDSCAPE ARCHITECT.

AVAILABLE PRESSURE : 115 PSI
DESIGN PRESSURE : 59 PSI
MAXIMUM DEMAND : 39 GPM



MATCHLINE SEE SHEET # L-3

BON VEO, FALA ARCHITECT, INC.
500 JASMINNE AVENUE, CORONA, DEL MAR
CALIFORNIA 92626 P: 949-441-3111 F: 949-441-0449
PATRICK WARR, AIA, PE, ASSOCIATE ARCHITECT



JON DAVID CICHETTI
LANDSCAPE ARCHITECTS
C.N. 2181
2760 E. SPRING ST., SUITE 110
LONG BEACH, CA 90806
(562) 868-1870 FAX

POINT VICENTE INTERPRETIVE
CENTER EXPANSION
31501 Palos Verdes Drive West
Rancho Palos Verdes, CA

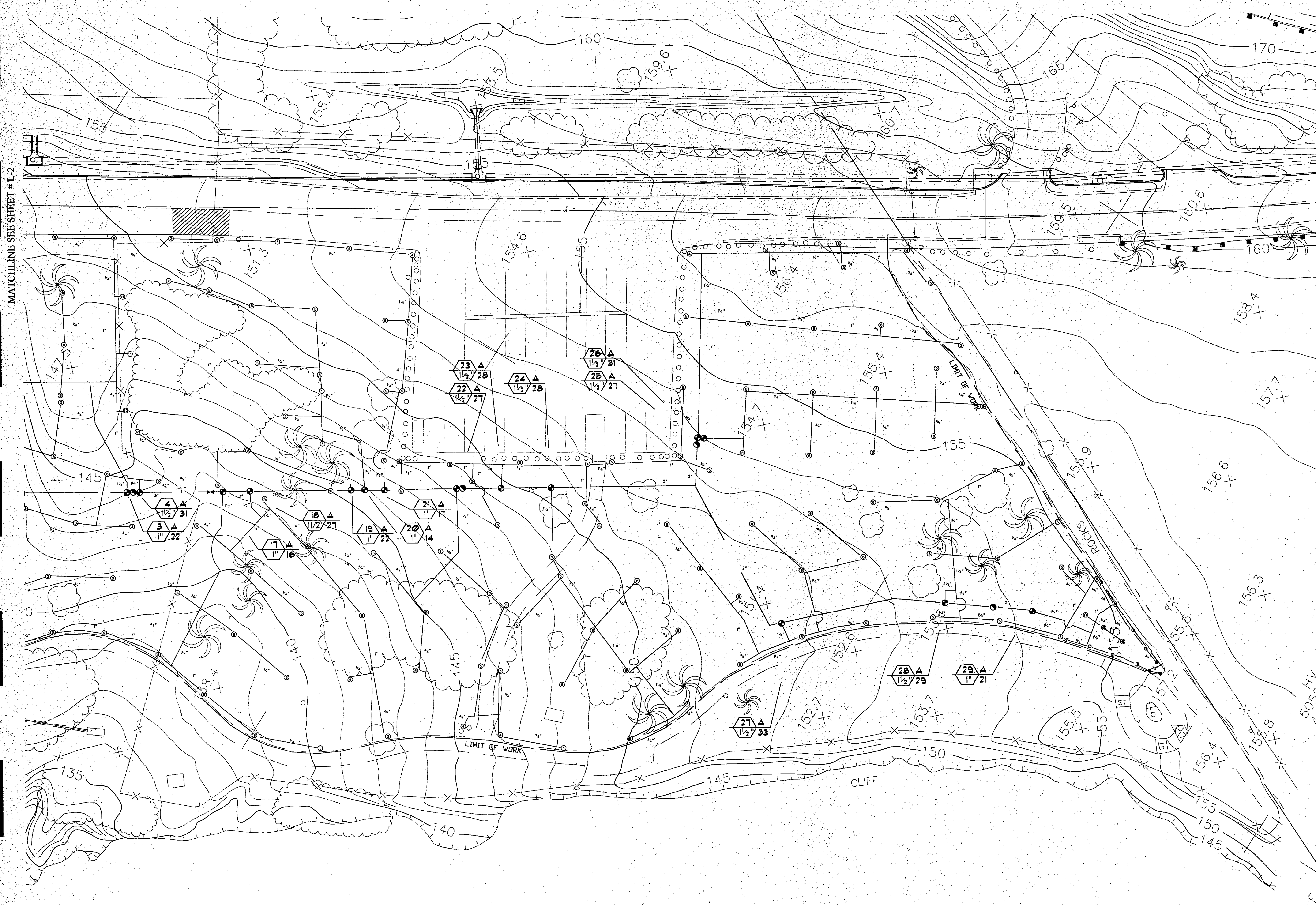
Irrigation Plan

DRAWN	
CHECKED	JDC
DATE	2.12.04
SCALE	1"=20'-0"
JOB. NO.	232
SHEET	

L-2
11 OF 69 SHEETS

In the Architect for projects requires the common law contract for services. These terms are subject to the terms and conditions of the contract. The Architect shall not be responsible for the construction and content of any law.

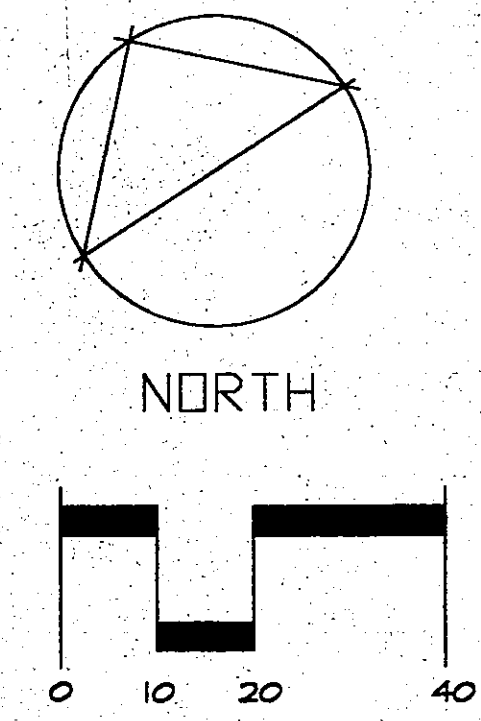
2/27/03



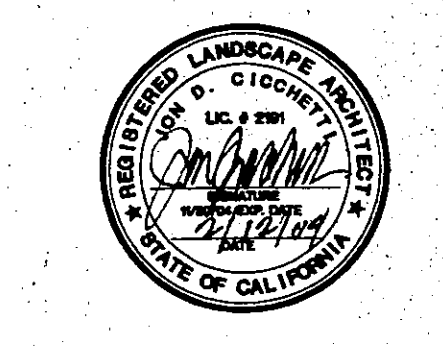
MATCHLINE SEE SHEET # L-2

MINIMIZING IRRIGATION DISTURBANCE IN COASTAL SAGE SCRUB AREAS:
 CONTRACTOR TO VERIFY LOCATION(S) OF COASTAL SAGE SCRUB WHEN LAYING OUT IRRIGATION PIPING AND HEADS. INTENT IS TO AVOID DISTURBING OR SPRAYING INTO SUBSTANTIAL AREAS OF NATIVE VEGETATION.

NOTE REGARDING 'IRRIGATION ONLY' ZONE: (THIS ENTIRE SHEET)
 CONTRACTOR TO COMPACT, REGRADE AND OVERSEED ALL AREAS DISTURBED BY IRRIGATION INSTALLATION. (i.e. TRENCHING ETC.)



BOB YEO, FALA ARCHITECT INC.
 500 TOWN CENTER DRIVE, SUITE 200
 PALM BEACH, FL 33411
 PH: 561-838-8800 FAX: 561-838-8800



JON DAVID CICHETTI
 LANDSCAPE ARCHITECTS
 C.N. 2191
 2195 E. SPRING ST. SUITE 110
 LONG BEACH, CA 90801
 (562) 598-8800 FAX

POINT VICENTE INTERPRETIVE
 CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

Irrigation Plan

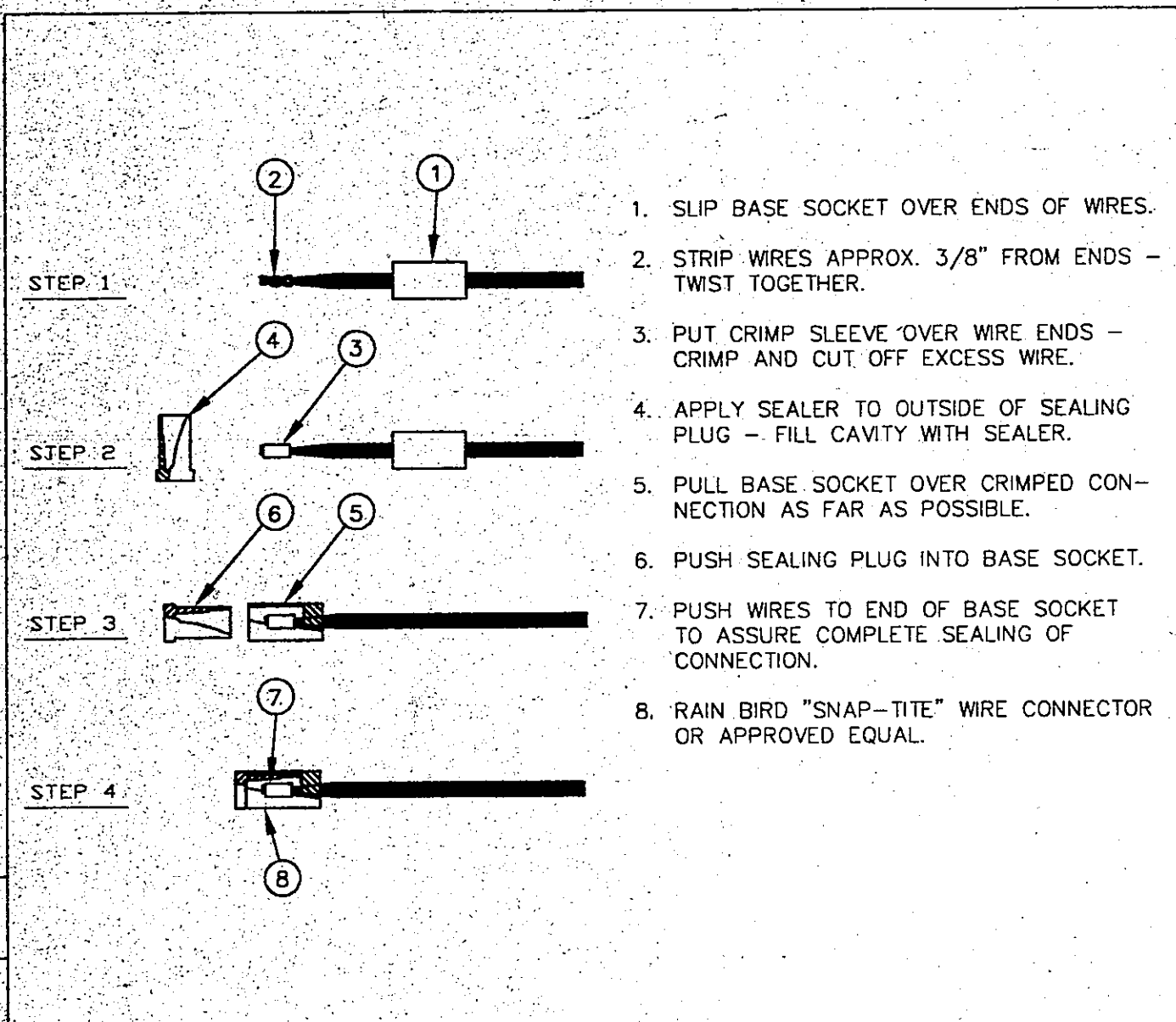
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JOB. NO.	232
SHEET	

L-3

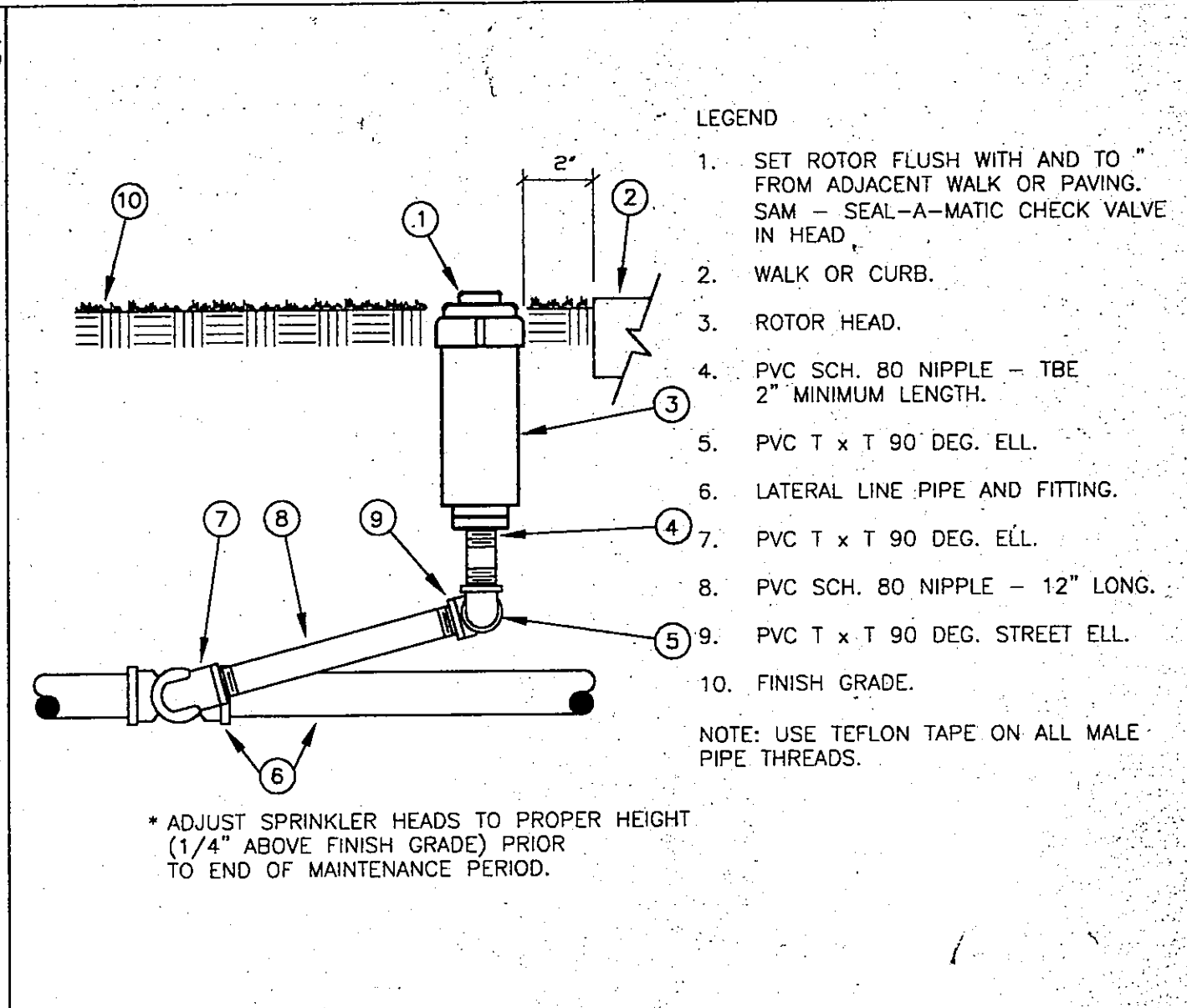
12 OF 69 SHEETS

This plan, including the general location, is
 shown as a guide only. It is not intended to
 be used as a basis for any construction or
 other work. The contractor shall be responsible
 for verifying the location and depth of all
 utilities and other conditions shown on this
 plan.

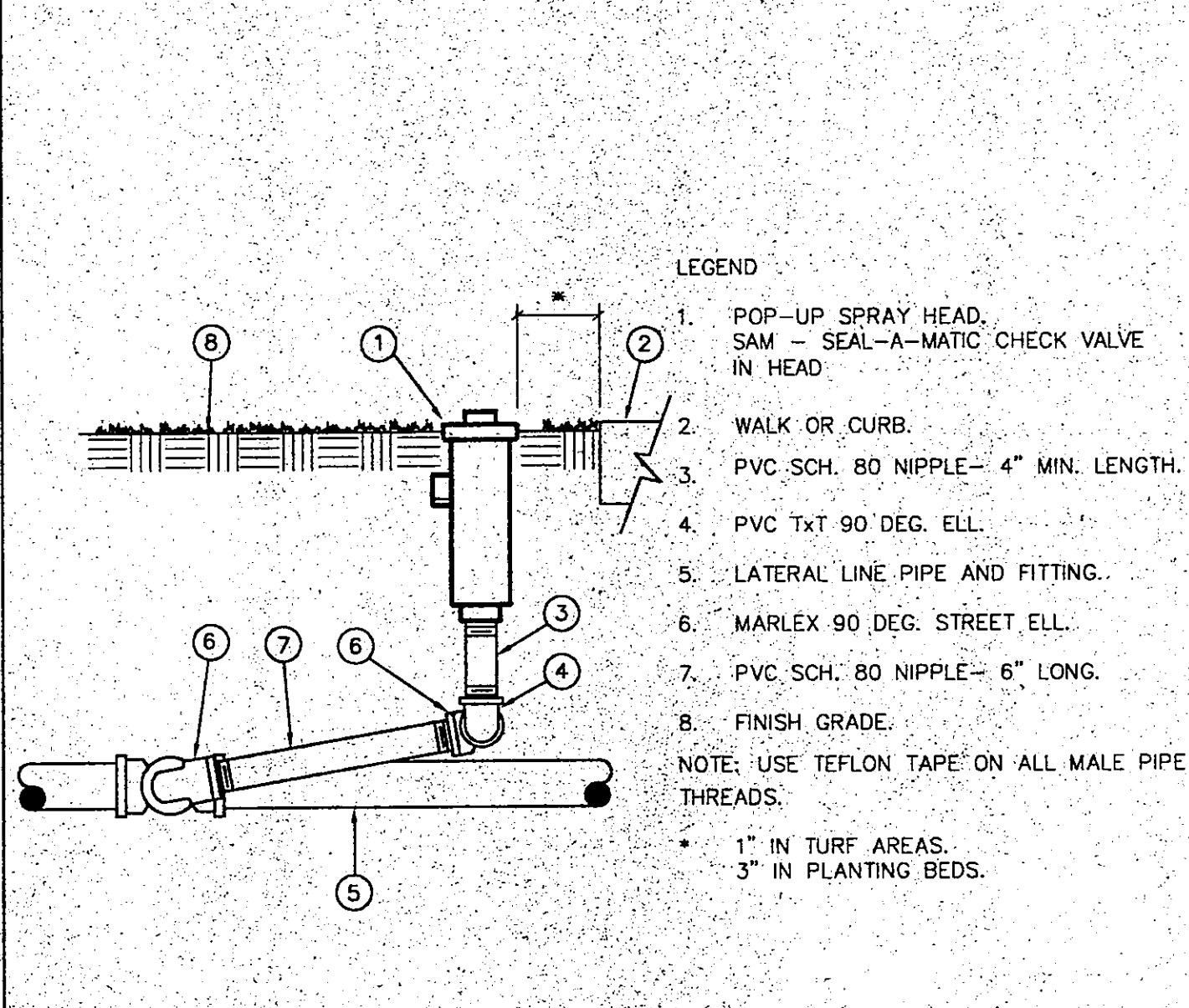
THIS DRAWING DOES NOT CONTAIN THE NECESSARY CONDITIONS FOR CONSTRUCTION SAFETY



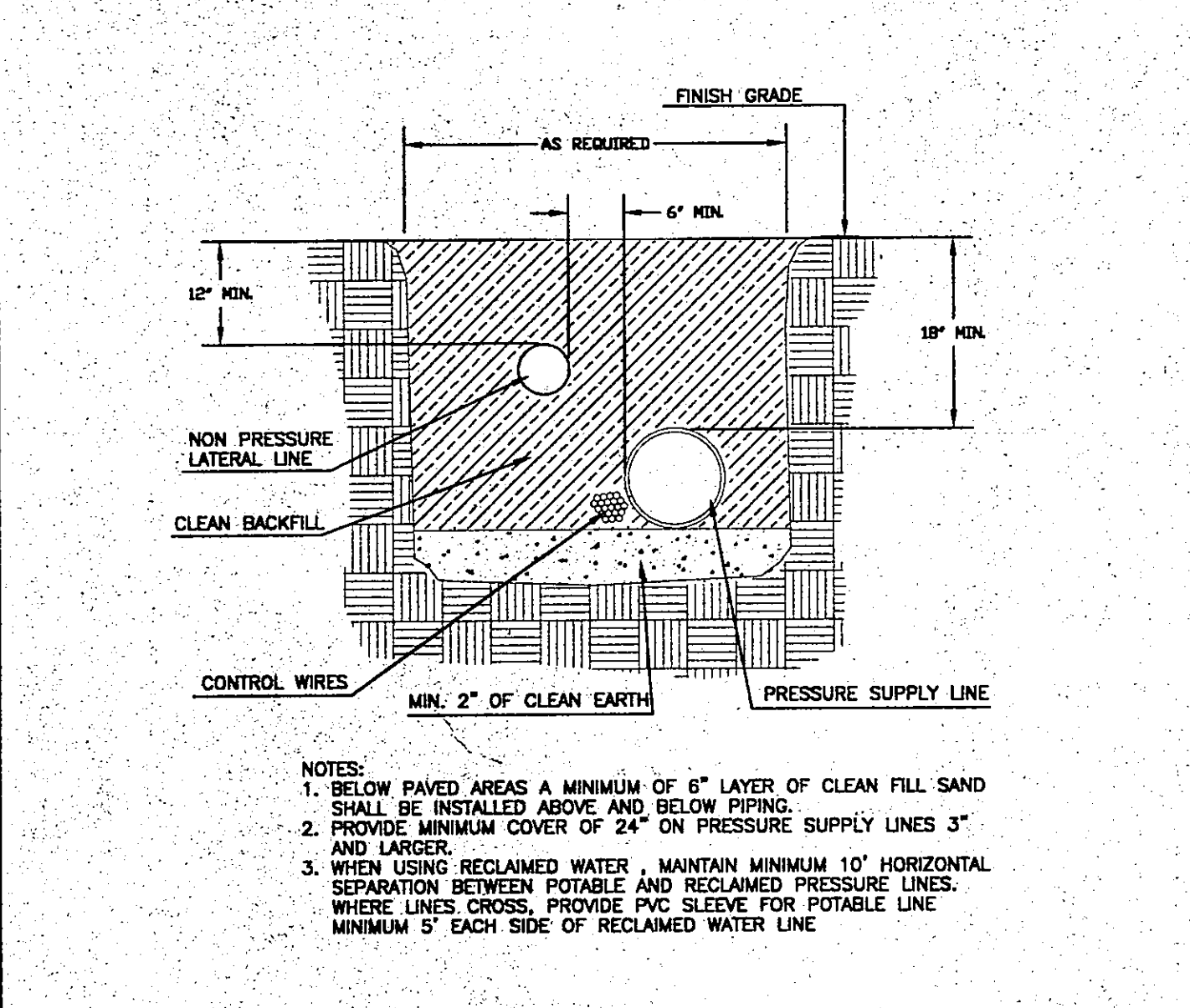
1 WIRE CONNECTOR



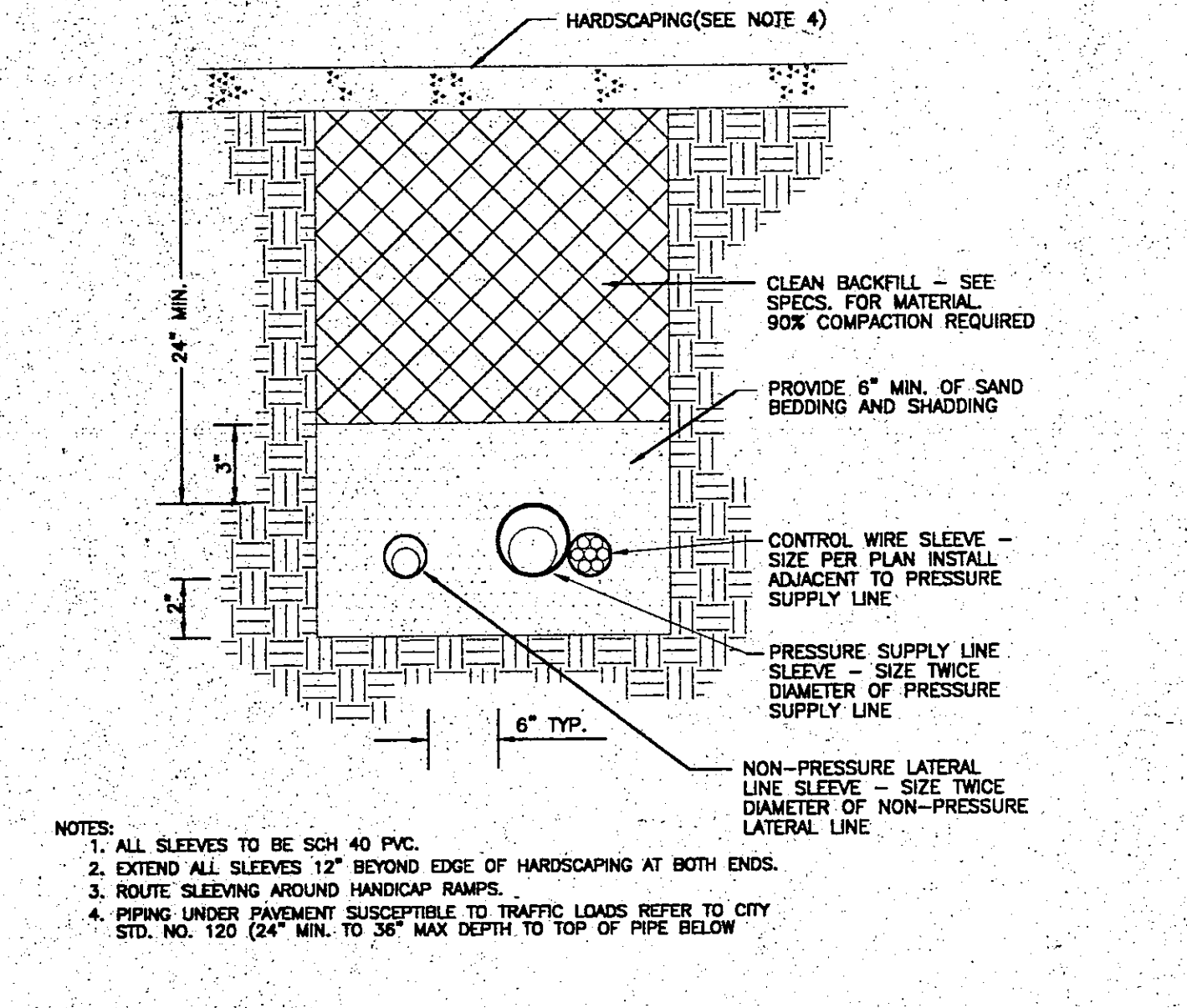
2 POP-UP STREAM ROTOR



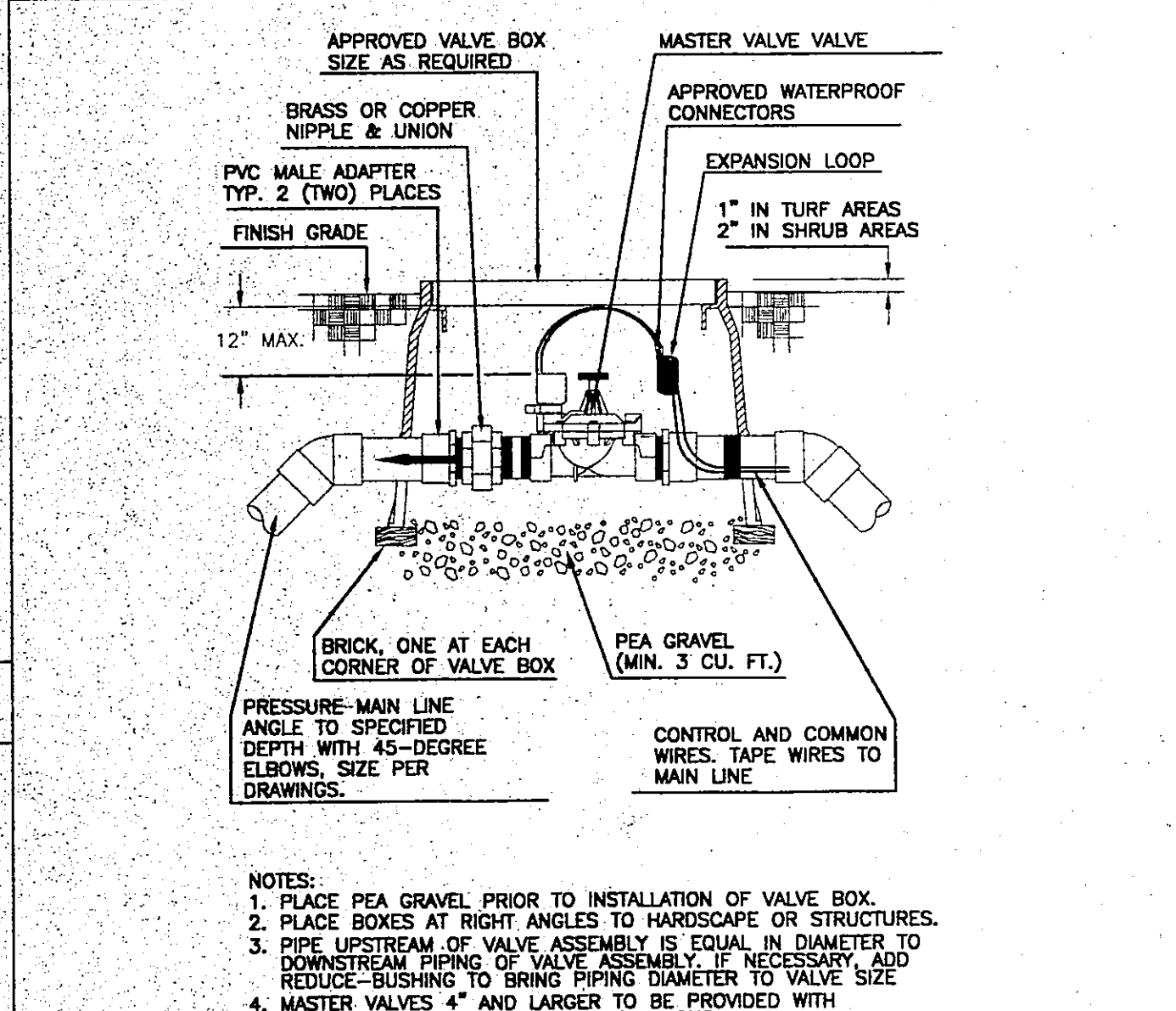
3 POP-UP SPRAY HEAD



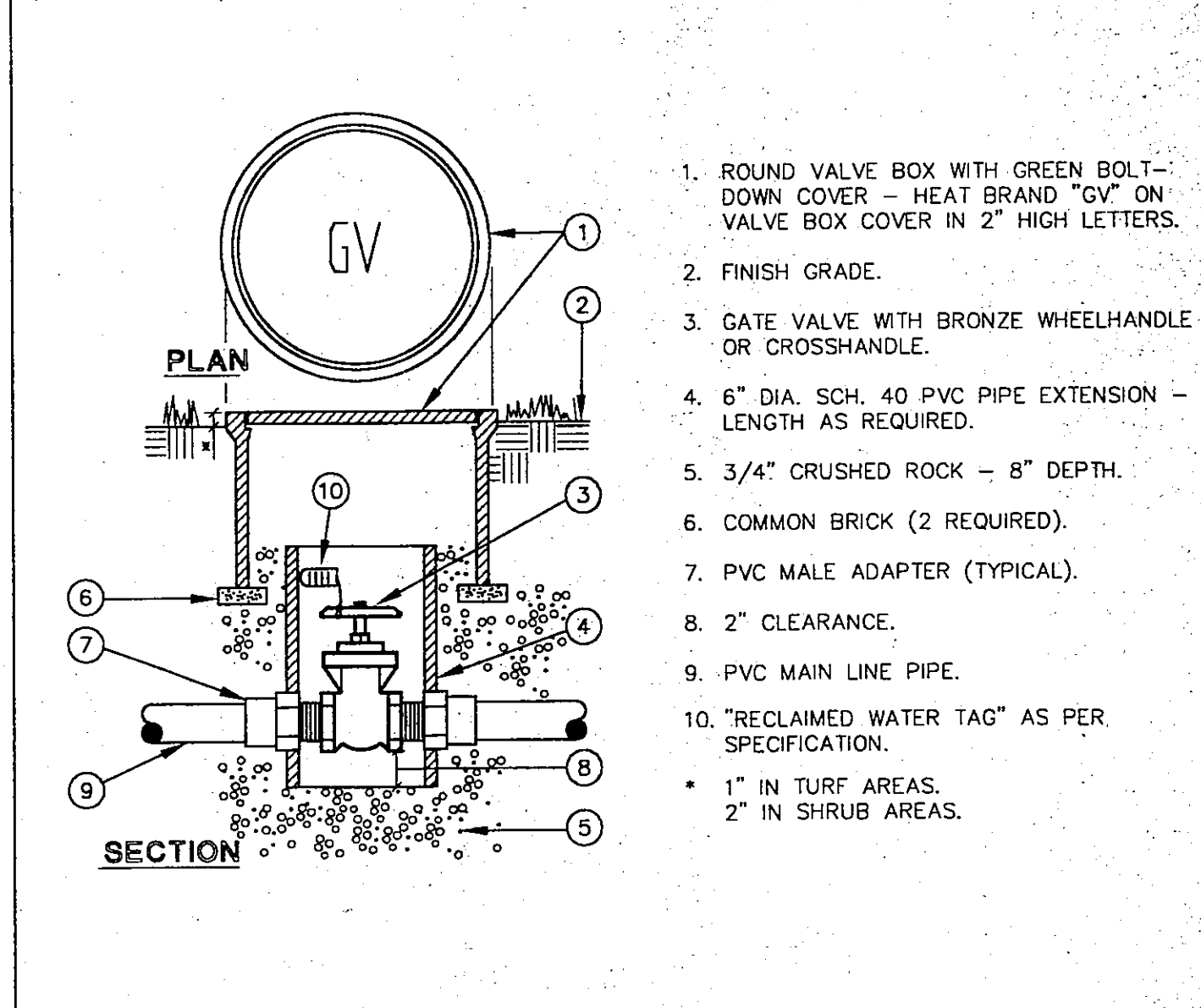
4 TYPICAL TRENCHING



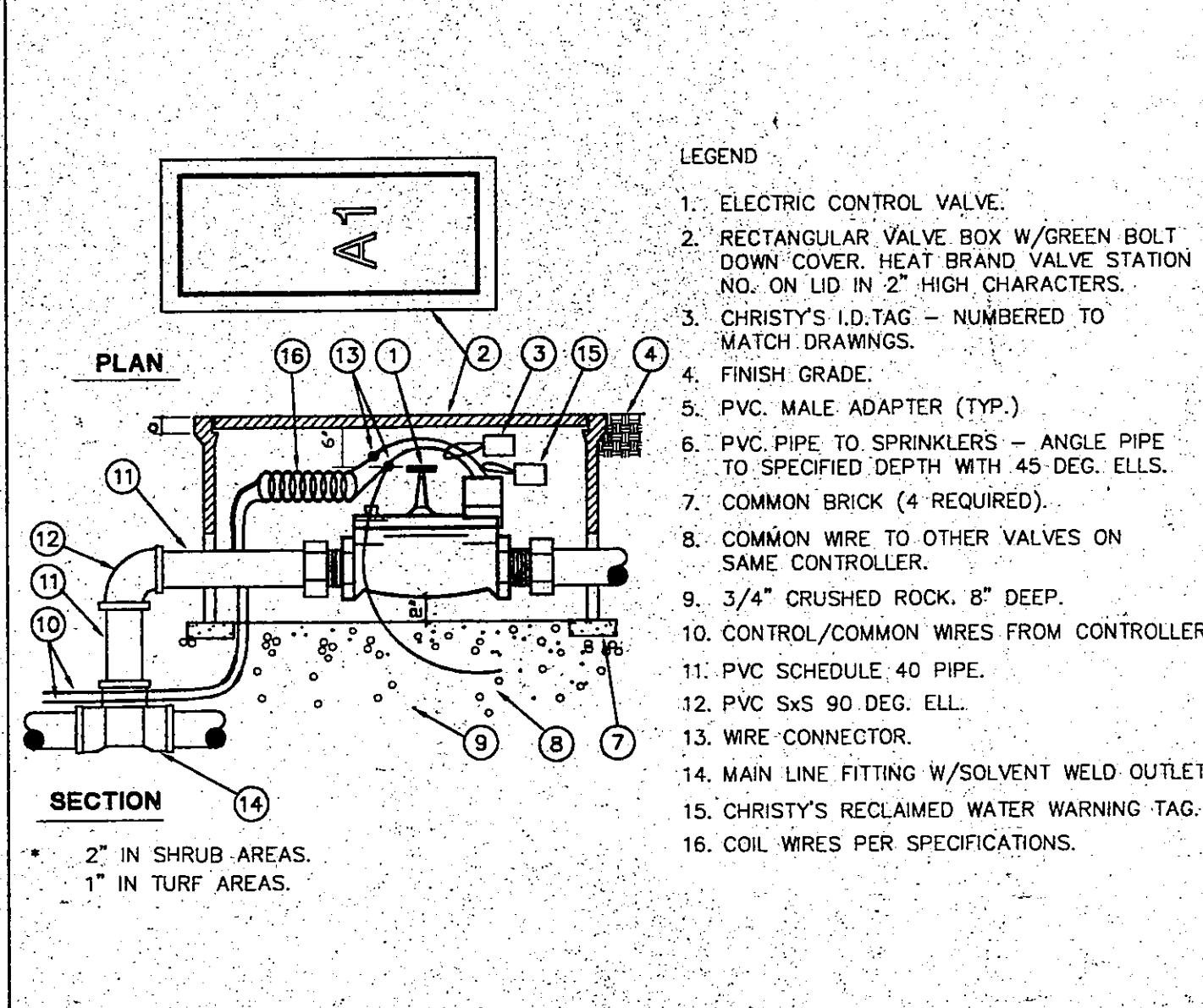
5 TYPICAL SLEEVING



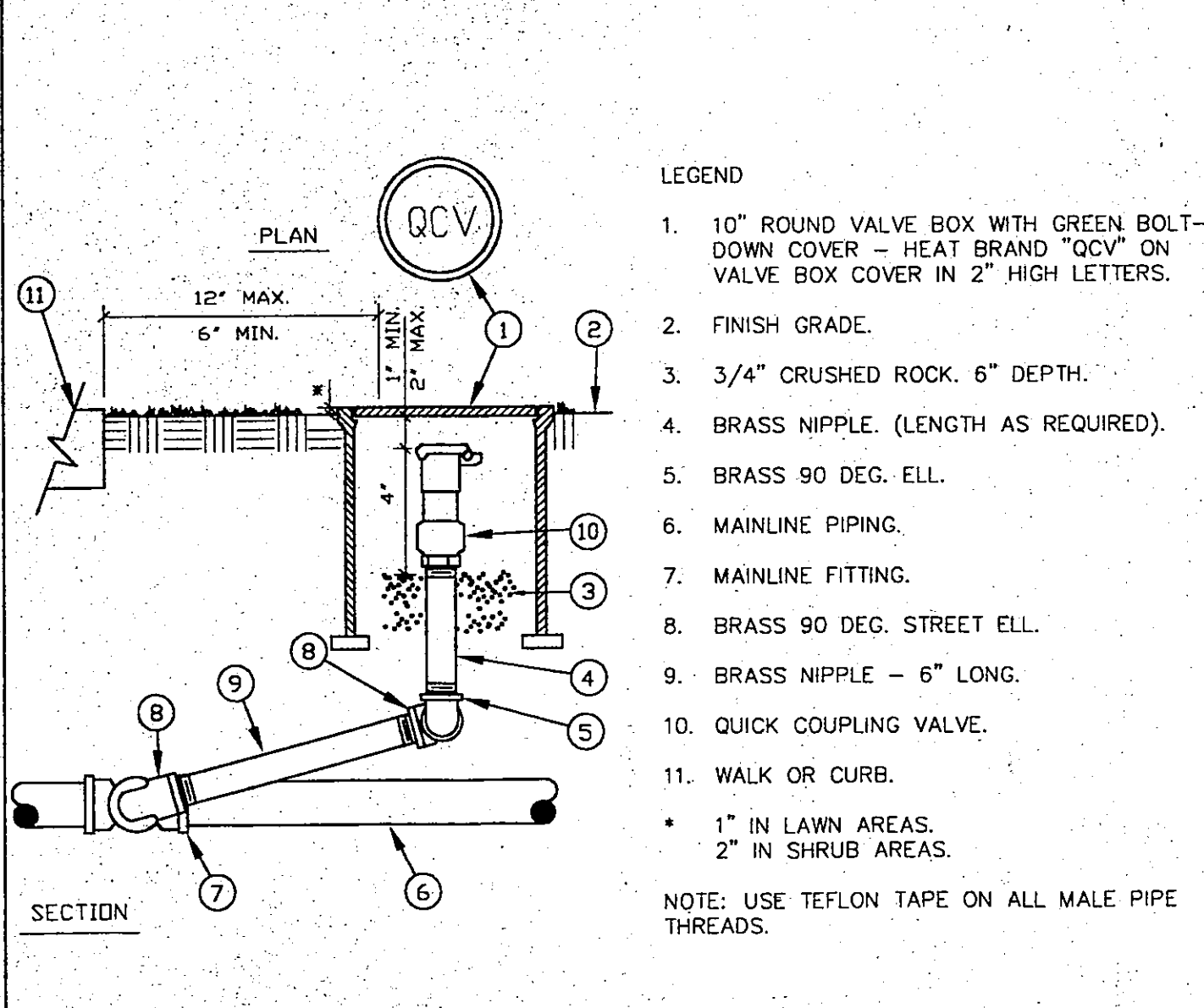
6 IRRIGATION MASTER VALVE



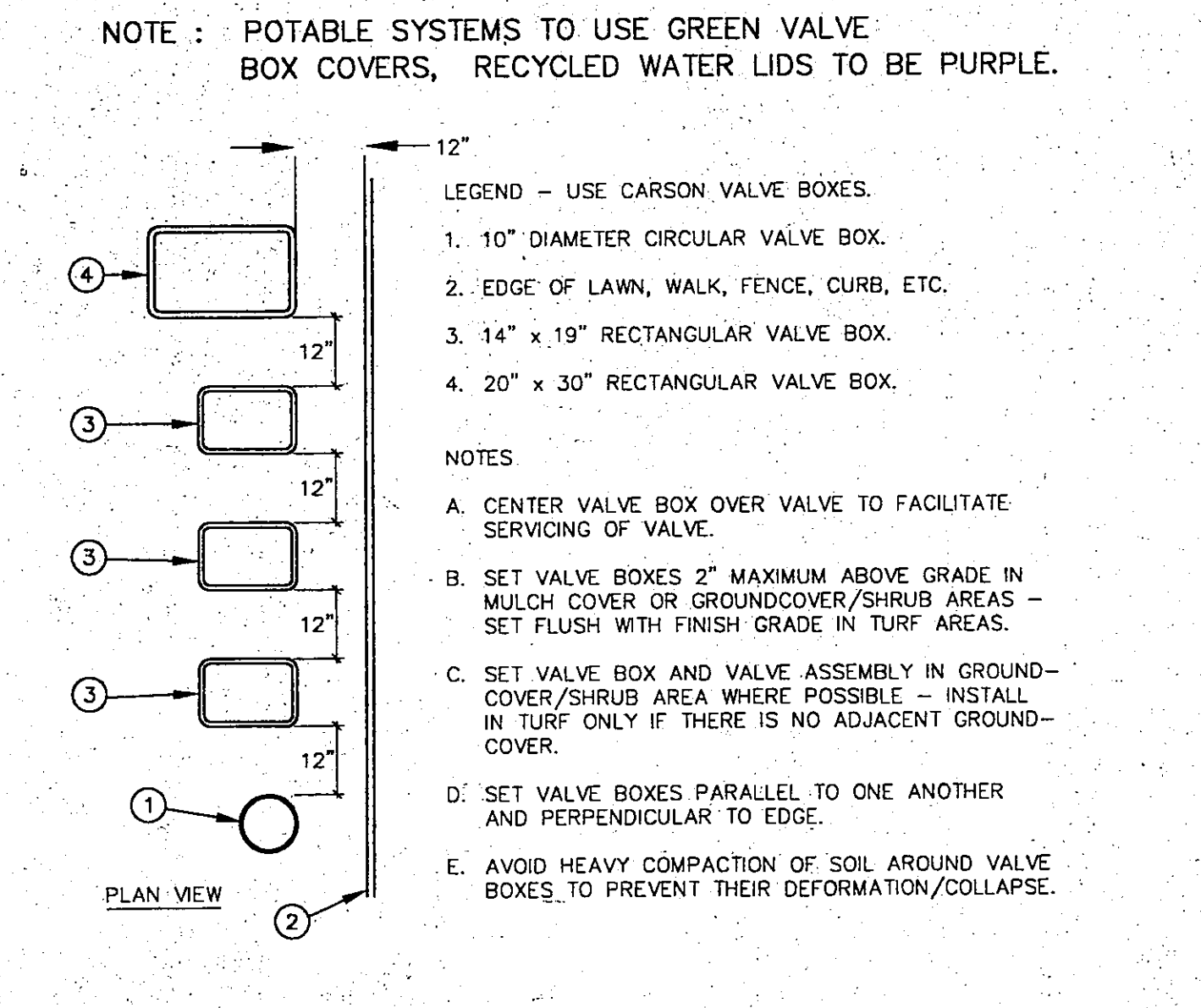
7 GATE VALVE



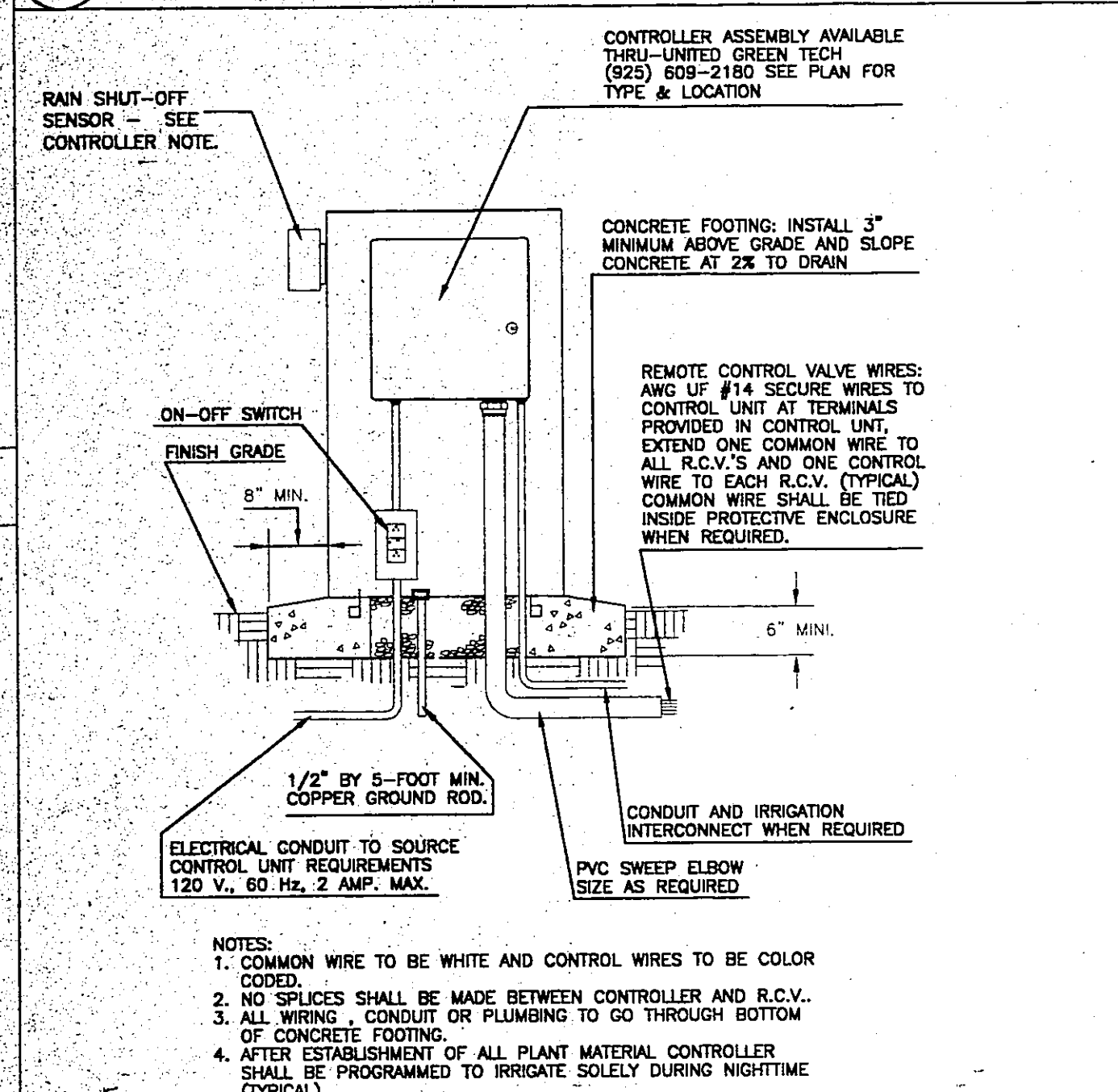
8 ELECTRIC CONTROL VALVE



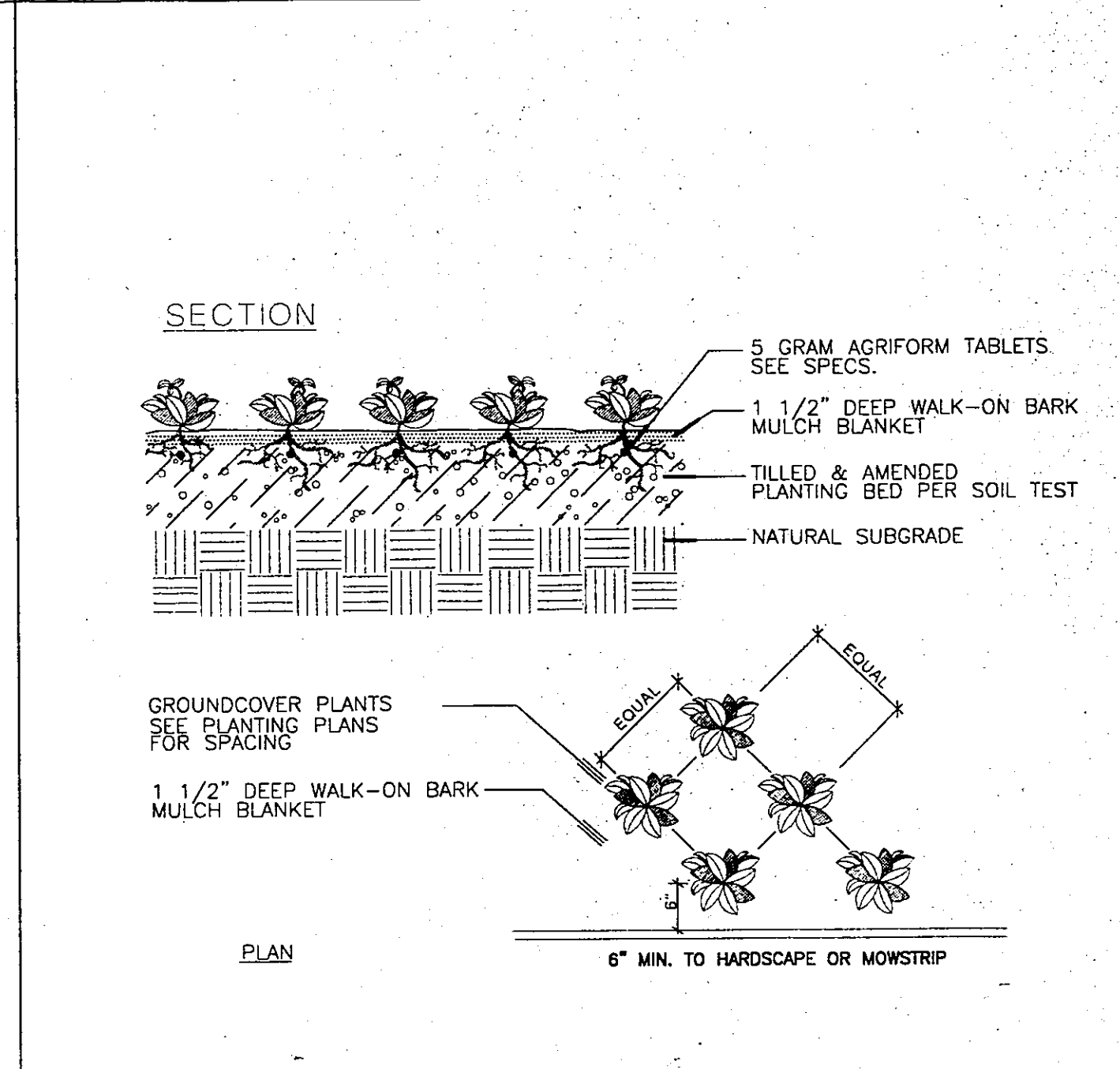
9 QUICK COUPLING VALVE - IN BOX



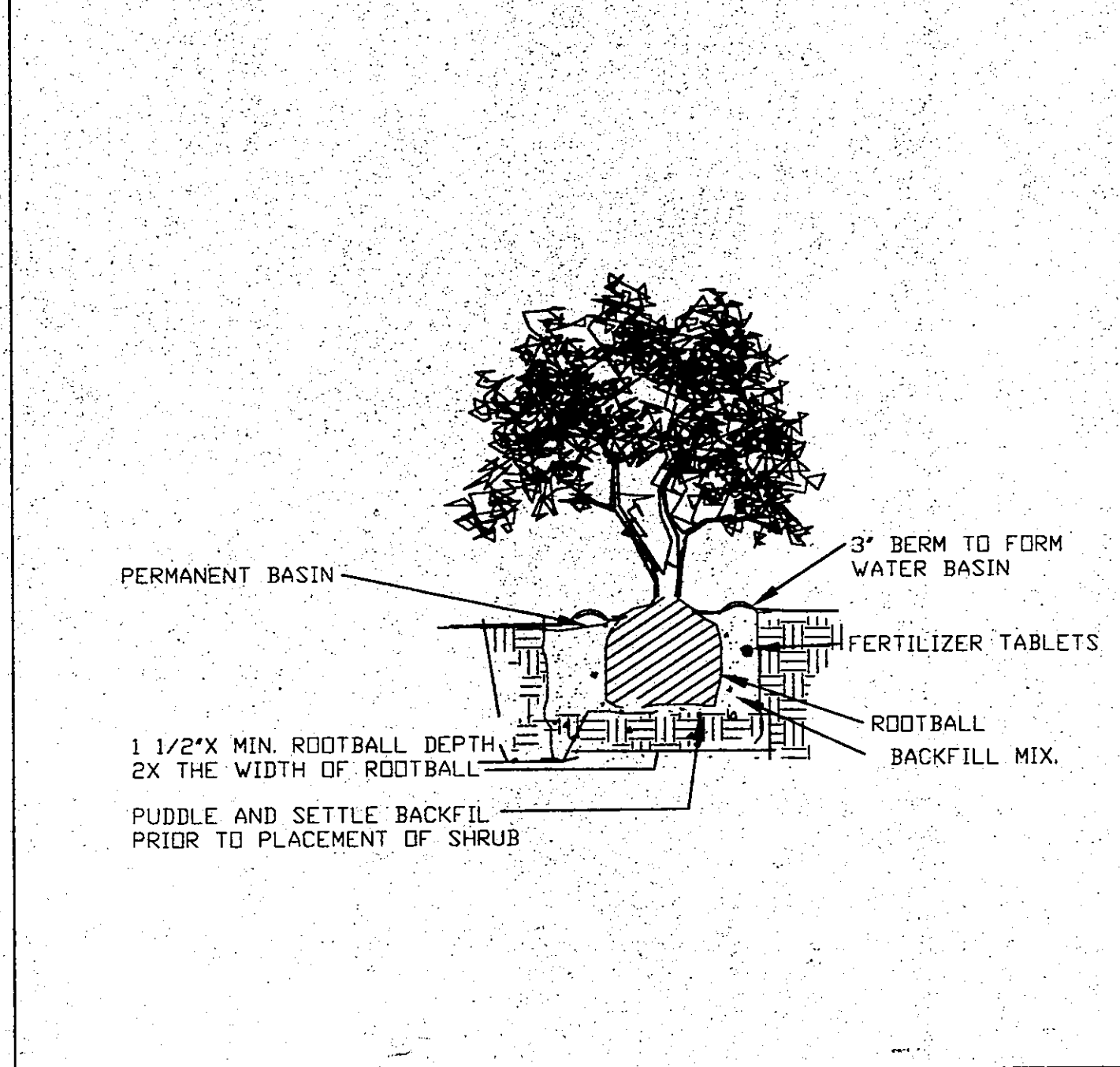
10 VALVE BOX INSTALLATION



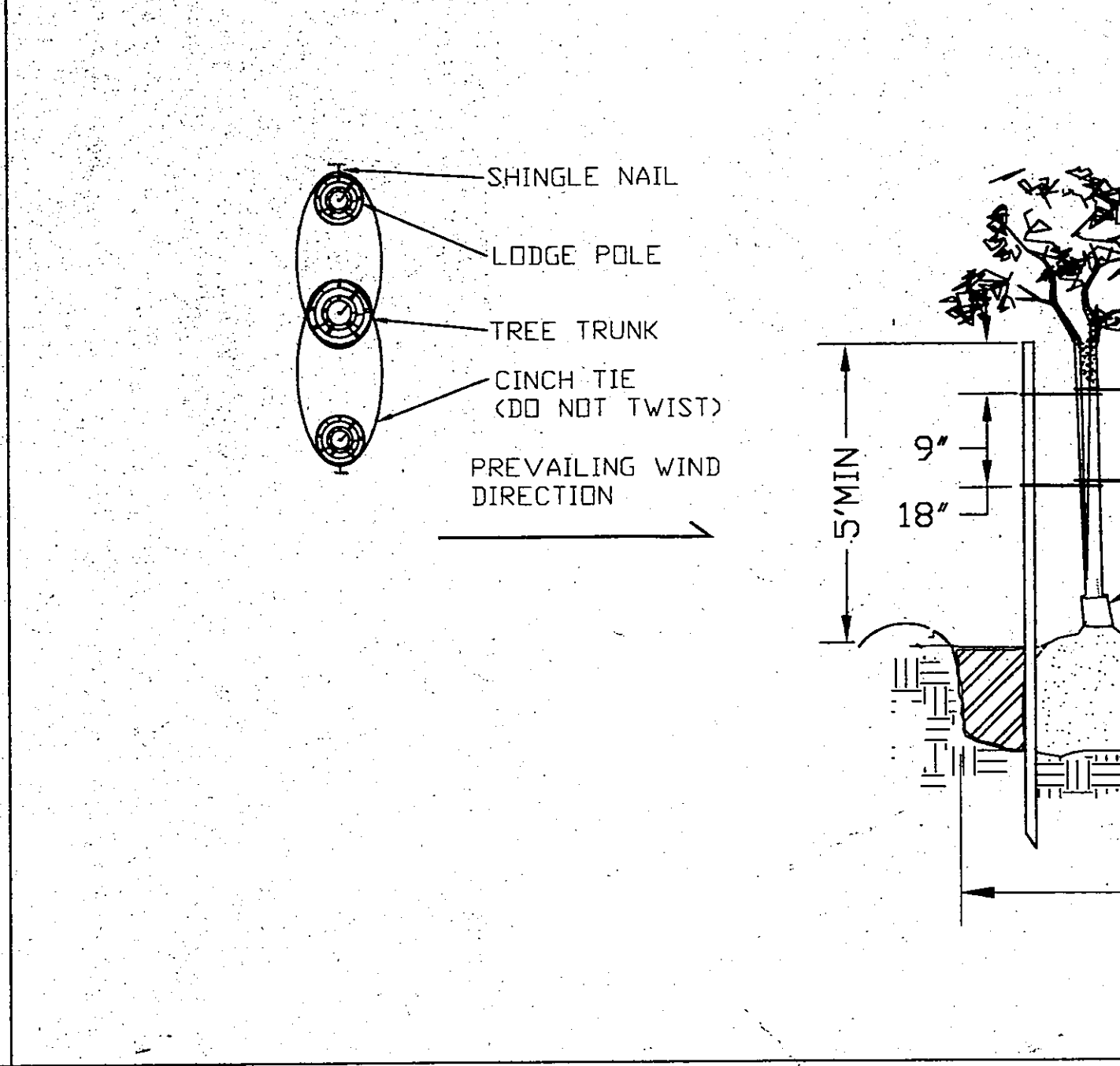
11 AUTOMATIC CONTROLLER



12 GROUNDCOVER PLANTING



13 SHRUB PLANTING



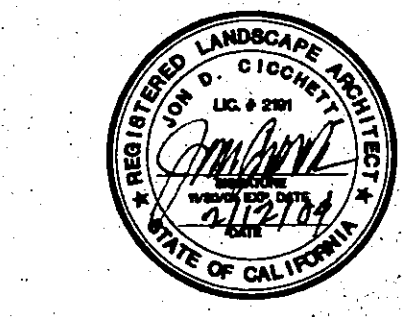
14 DOUBLE STAKE TREE PLANTING

Underground Service Alert
Call: TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

DRAWN
CHECKED
DATE
2.12.04
SCALE
1\"/>

13 OF 13 SHEETS

BOB VITO, P.E., ARCHITECT
 1000 S. GARDEN ST., SUITE 100
 PALM BEACH, FL 33480
 (561) 833-0449
 PALM BEACH ASSOCIATE ARCHITECT



JON DAVID CICCETTI
 LANDSCAPE ARCHITECT
 CA. REG.
 2700 S. GARDEN ST., SUITE 100
 PALM BEACH, FL 33480
 (561) 833-0449

POINT VICENTE INTERPRETIVE
 CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

Planting and
 Irrigation Details



12/23/03 update revisions

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palms Venderas Drive West
 Rancho Palms Venderas, CA

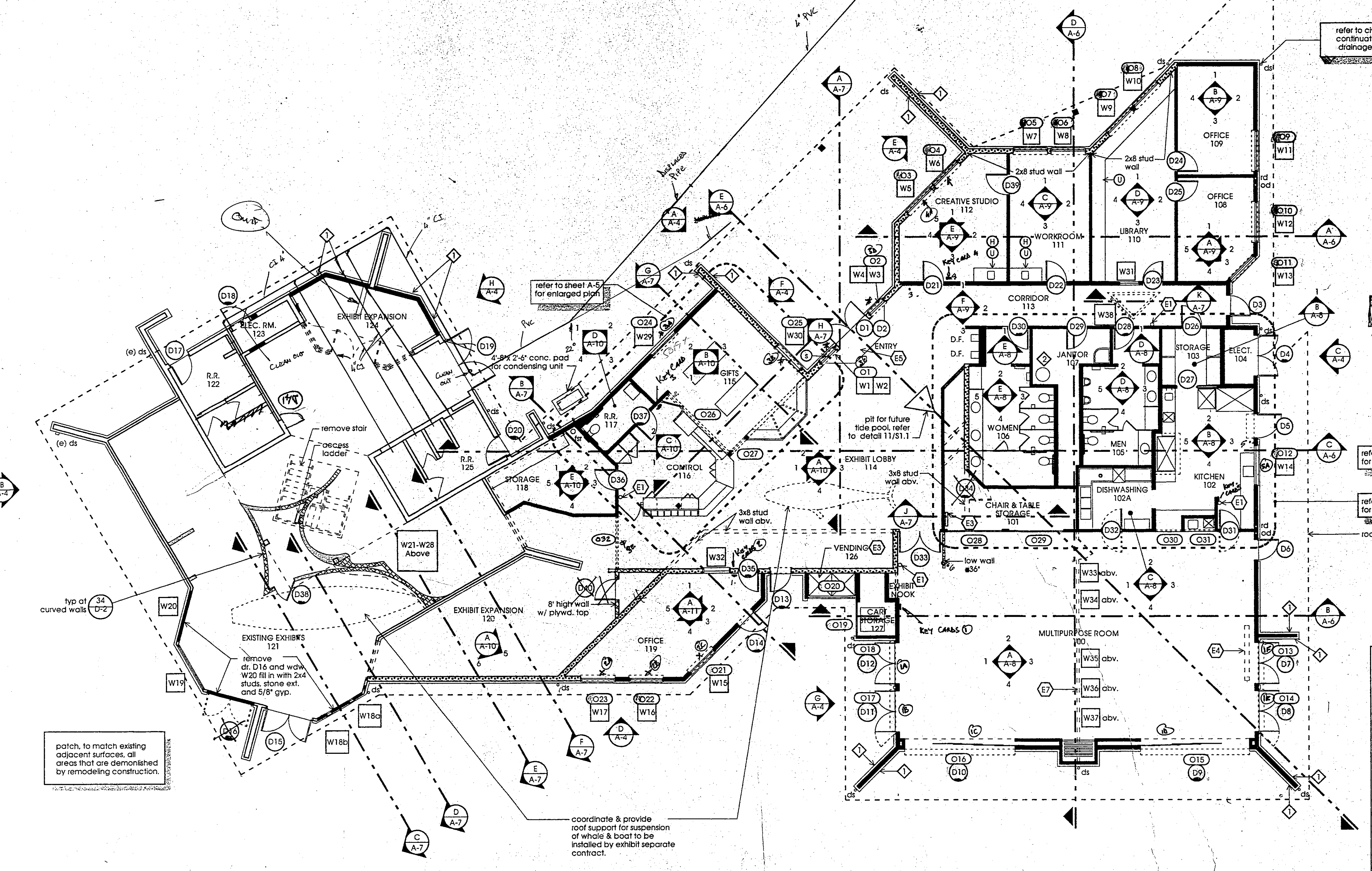
Floor Plan

DRAWN	PM/MG
CHECKED	RY
DATE	2/1/09
SCALE	(as noted)
JOB NO.	95-120
SHEET	A-1

14 OF XX SHEETS

CODE PLAN Scale: 1/32" = 1'-0"

A-3 occupancy 3715 sq. ft. / 15=248
 divide by 2 to account for exhibit space
 248/2 = 124. 2 exits required
 B occupancy 272 sq. ft. / 50=6: 1 exit required
 B occupancy 564 sq. ft. / 50=11: 1 exit required
 B occupancy 379 sq. ft. / 100=4: 1 exit required
 B occupancy 487 sq. ft. / 200 = 2: 1 exit required
 A-3 occupancy maximum seating = 194: 2 exits required
 1695 sq. ft. / 15 = 113: 2 exits required
 B occupancy 358 sq. ft. / 30=9: 1 exit required
 B occupancy 465 sq. ft. / 50=9: 1 exit required
 B occupancy 293 sq. ft. / 100=3: 3-1 exit reqd.



Plan note:

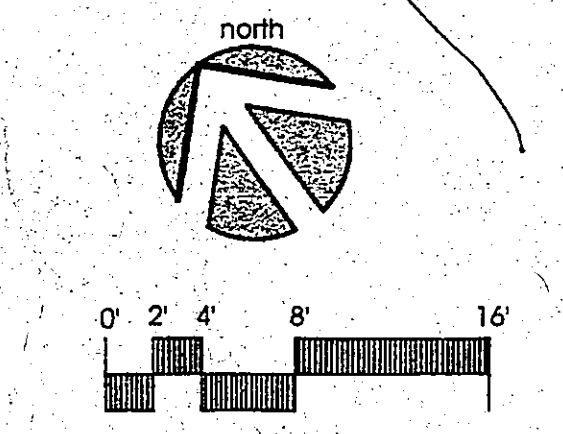
- stone veneer to be 1 1/2" thick @ double veneered walls where indicated
- provide comb. air to w.h. 6' from the floor & ceiling.

SYMBOL LEGEND

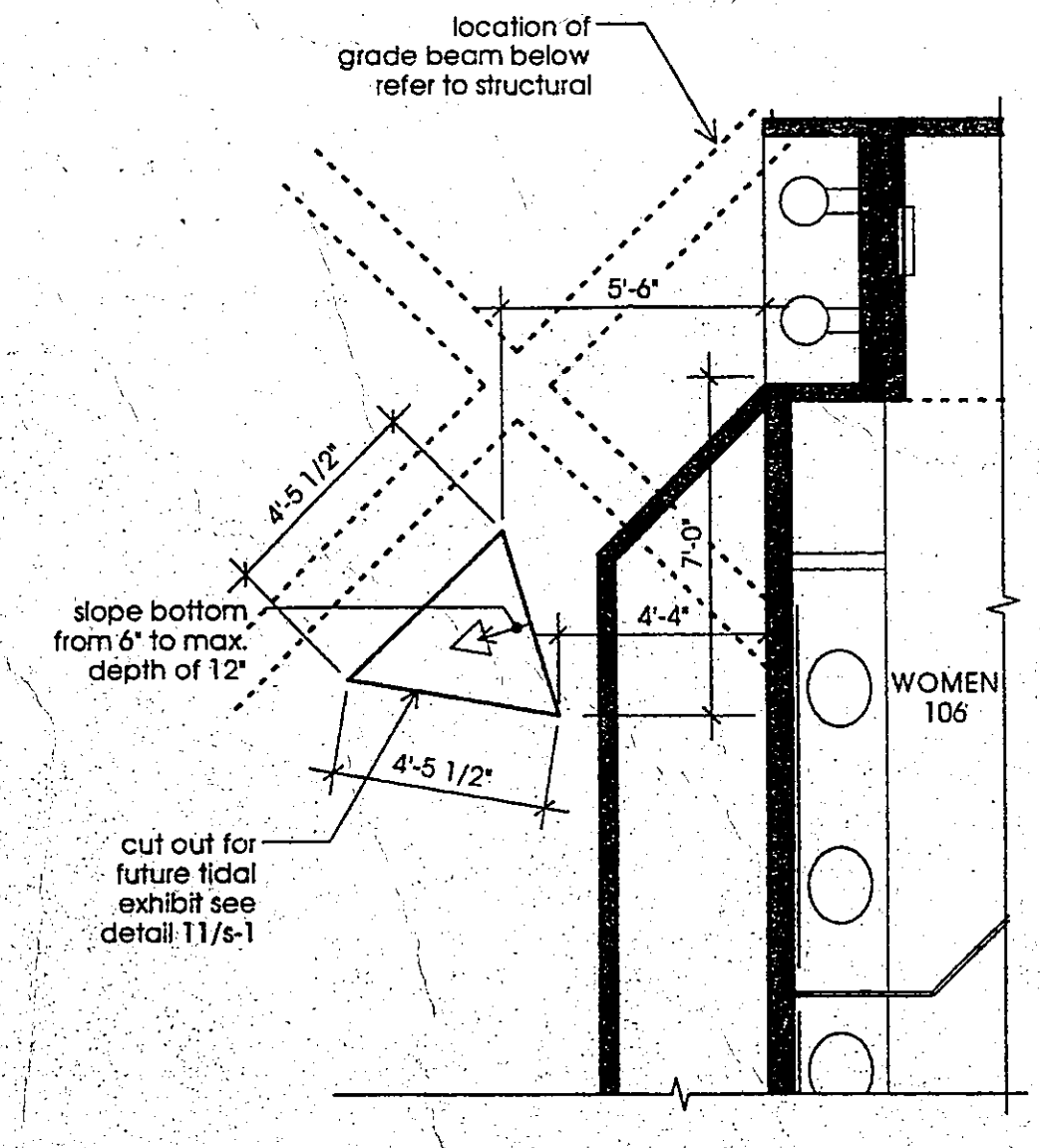
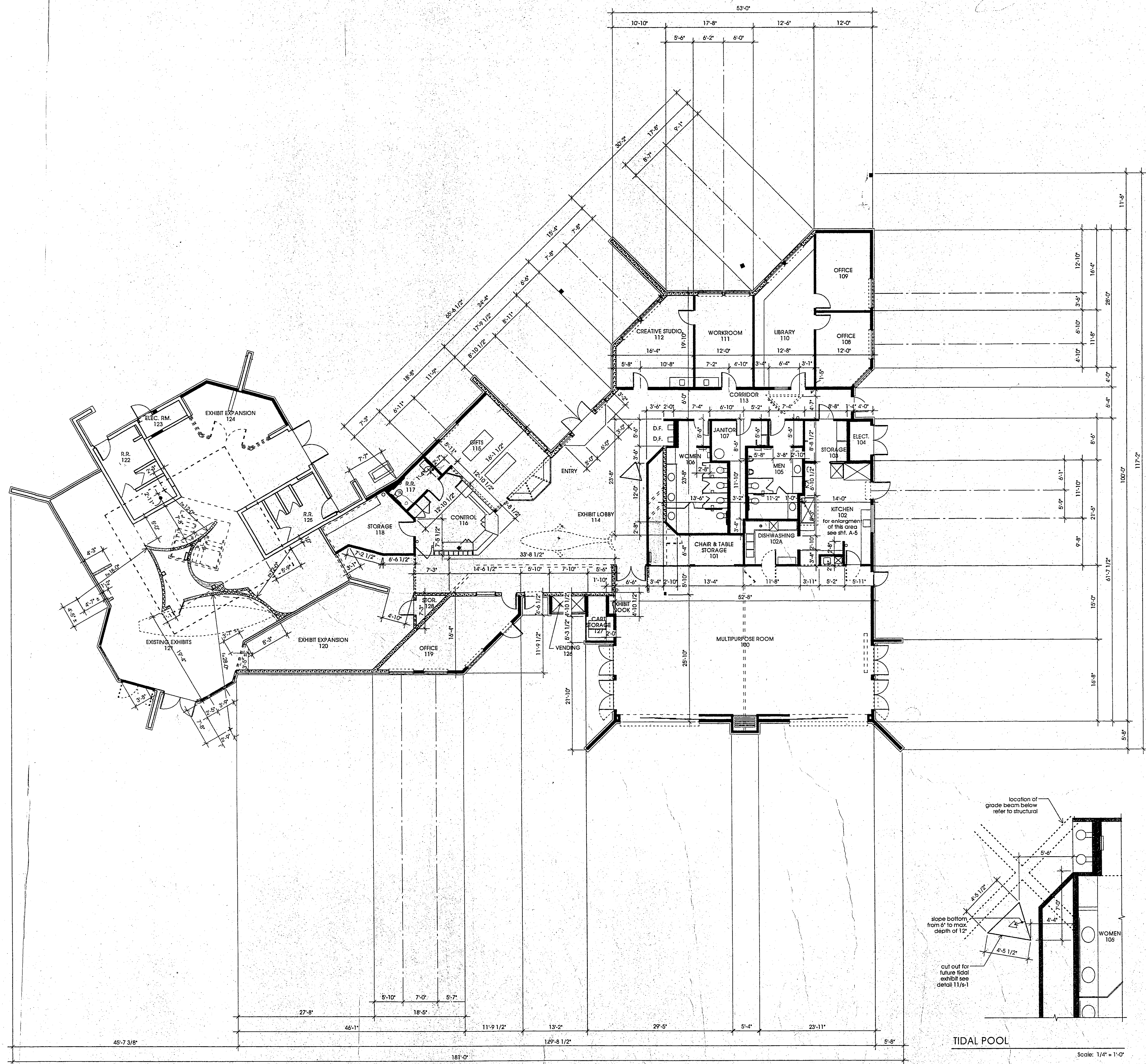
- stone veneer over new wall
- new walls 2x4 @ 16' o.c. U.N.O. new exterior walls - 2x6 @ 16' o.c. U.N.O. (refer to structural plans)
- new 3x8 walls @ 16' o.c. (refer to structural plans)
- existing walls
- exist. walls to be removed
- full ht. 2x4 studs @ 16' o.c. walls to 9'-6" ± clg. or 8'-0" soffit
- low wall 2x4 studs @ 16' o.c. 8'-0" ± w/ open ceiling abv.
- door
- window
- roll-up security shutter
- accessibility
- equipment
- restroom accessory
- kitchen equipment
- elevation indicator
- section cut

EXISTING AREA: 2309 Sq ft
 ADDITION TO EXISTING AREA: 186 Sq ft
 NEW BUILDING AREA: 7288 Sq ft
 TOTAL NEW AREA: 7474 Sq ft
 TOTAL SQUARE FOOTAGE: 9783 Sq ft

TOTAL LENGTH OF 4" CI PIPE REQUIRING RE-LINING = 180'



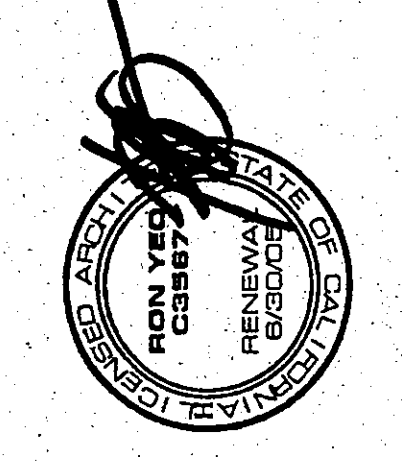
THESE DRAWINGS DO NOT CONSTITUTE NECESSARY CONSENT FOR CONSTRUCTION SAFETY
 FROM A MEMBER, FOR USE HEREIN TO BE ASSIGNED TO
 PERMIT AND COMMENT OF RON YEO, ARCHITECT
 INC.



DIMENSION FLOOR PLAN

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

RON YEO, FAIA ARCHITECT, INC.
 3001 SHIMMING CANYON ROAD, SUITE 111
 RANCHO PALMS VERDES, CA 91769-5440-489
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palms Verdes Drive West
 Rancho Palms Verdes, CA

12/23/03 update revisions

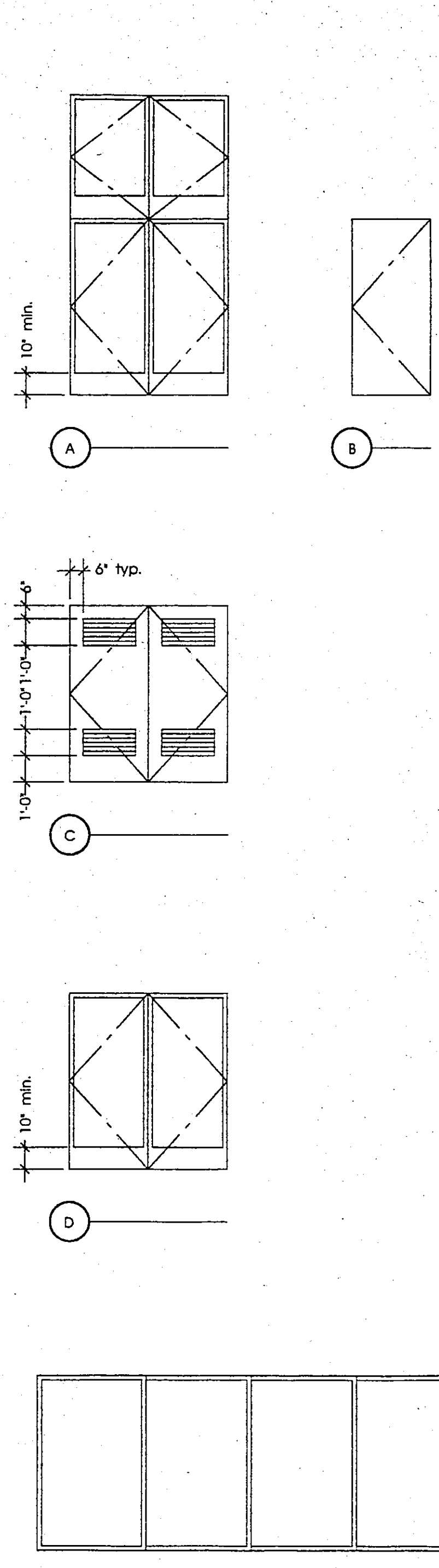
Dimension Floor Plan

DRAWN	PM/MS
CHECKED	BY
DATE	2/1/99
SCALE	1/8" = 1'-0"
JOB NO.	95-120
SHEET	A-2

DOOR SCHEDULE:

Table with columns: Mark, Width, Height, Type, Frame, Elev, HW Set. Contains door specifications for various materials like aluminum, wood, and metal.

- Door Notes: 1. All doors and their hardware shall comply with UBC 1004, including Title 24 Amendments...



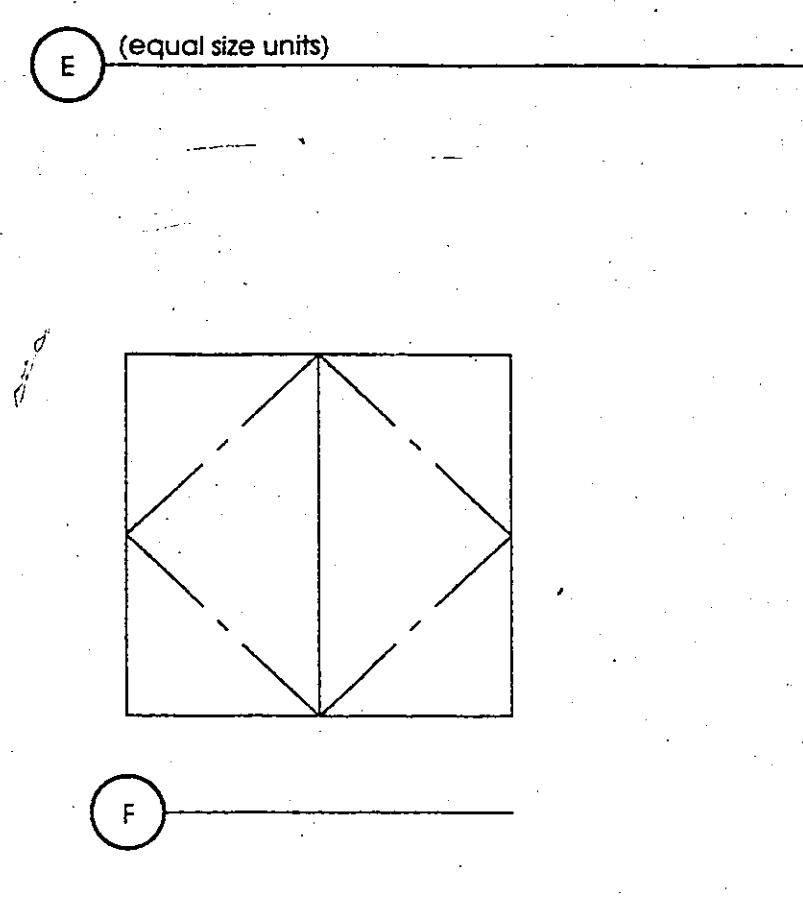
WINDOW SCHEDULE:

Table with columns: Mark, Width, Height, Type. Lists window specifications including aluminum fixed, aluminum slider, and aluminum fixed temp. porthole window.

Window Notes: 1. Exterior windows shall have a temporary label, not to be removed before inspection...

ACCESSIBILITY KEY NOTES:

- A. Provide a clear space of sufficient size to inscribe a circle with a diameter not less than 48".
- B. Provide a clear space 32" in width (minimum) from fixture to wall in handicap compartment...



SPECIALTIES EQUIPMENT SCHEDULE:

Table with columns: Mark, Equipment, Make/Model. Lists specialized equipment such as fire extinguishers, mop racks, vending machines, and roll-up projection screens.

KITCHEN EQUIPMENT SCHEDULE:

Table with columns: Mark, Equipment, Make/Model. Lists kitchen equipment including refrigerators, ice makers, microwaves, ranges, hoods, dishwashers, coffee makers, air curtains, shelving, counter sinks, and garbage disposals.

OVERHEAD COILING DOOR SCHEDULE:

Table with columns: Mark, Width, Height, Type. Lists overhead coiling door specifications for various materials like aluminum shutter and wood.

RESTROOM ACCESSORY SCHEDULE:

Table with columns: Mark, Equipment, Make/Model. Lists restroom accessories such as grab bars, toilet tissue dispensers, hand dryers, hand soap dispensers, towel dispensers, soap dispensers, towel hooks, waste containers, and napkin dispensers.

INTERIOR COLOR SCHEDULE

Table listing interior color specifications for floor covering, base paint, stain, glazed coating, wall covering, ceramic tile, doors, space-wall, laminated plastic, folding partition, floor mat, corner guard, high impact vinyl acrylic wainscot, acoustic wall panels, solid plastic surface, toilet partitions, and french doors and window wall.

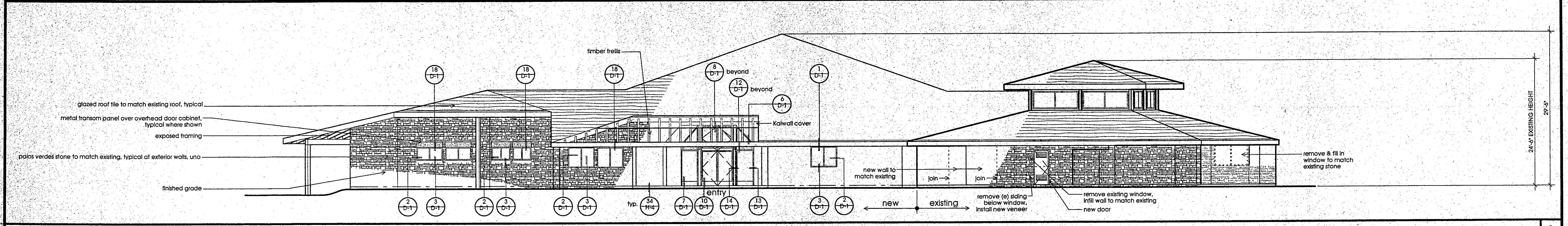
EXTERIOR COLOR SCHEDULE

Table listing exterior color specifications for stone, storefront & french doors, hollow metal doors and frames, sheet metal, glass, window s, and roof.

FINISH SCHEDULE:

Table with columns: Room Number, Room Name, Floor, Base, Walls, Ceiling, Ceiling Height, Interior Elevation, Remarks. Provides finish specifications for each room in the project.

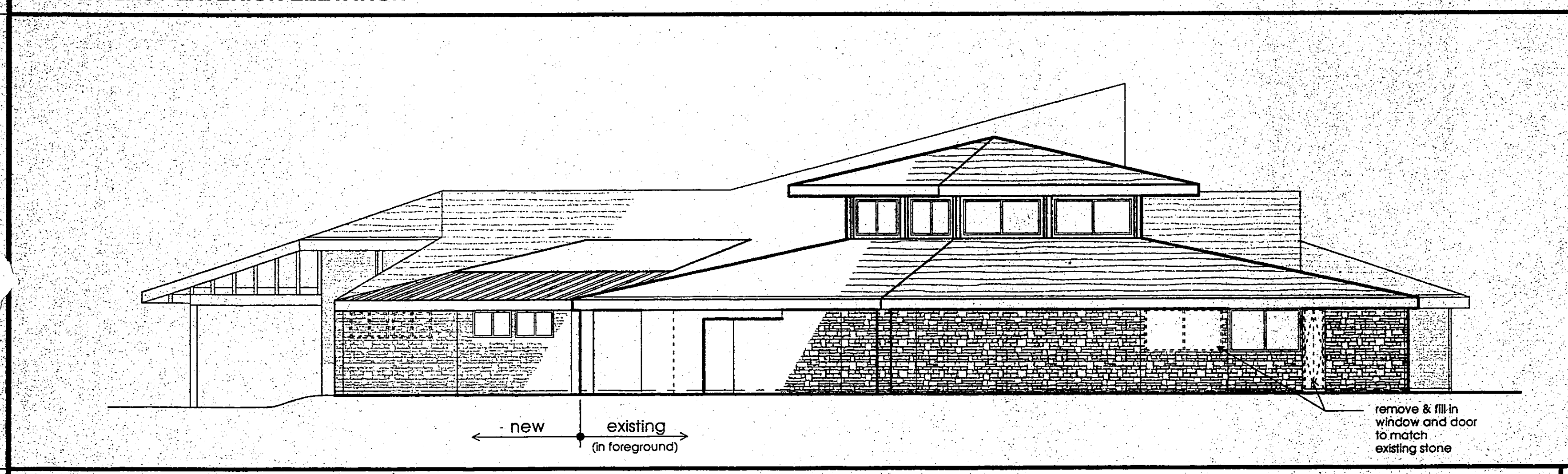
Project information including: POINT VICENTE INTERPRETIVE CENTER EXPANSION, Notes & Schedules, DRAWN PM/MG, CHECKED BY, DATE 2/11/99, SCALE (none), JOB NO. 92-100 SHEET, A-3, and 16 OF 61 SHEETS.



NORTHEAST EXTERIOR ELEVATION

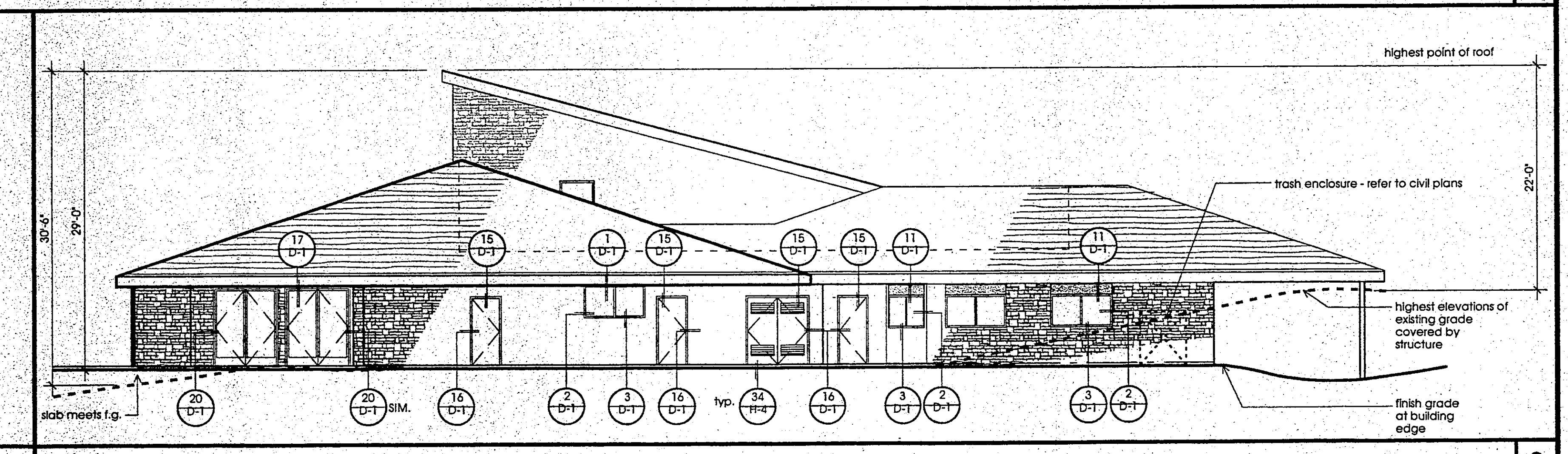
Scale: 1/8" = 1'-0"

A



NORTHWEST EXTERIOR ELEVATION

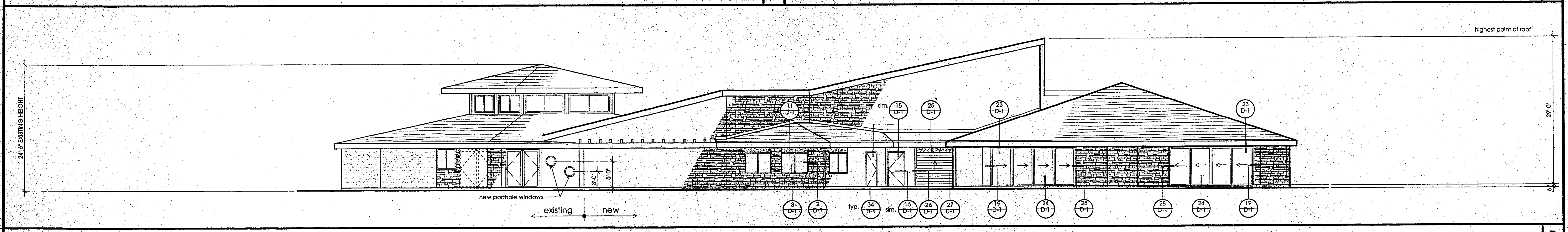
Scale: 1/8" = 1'-0"



SOUTHEAST EXTERIOR ELEVATION

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

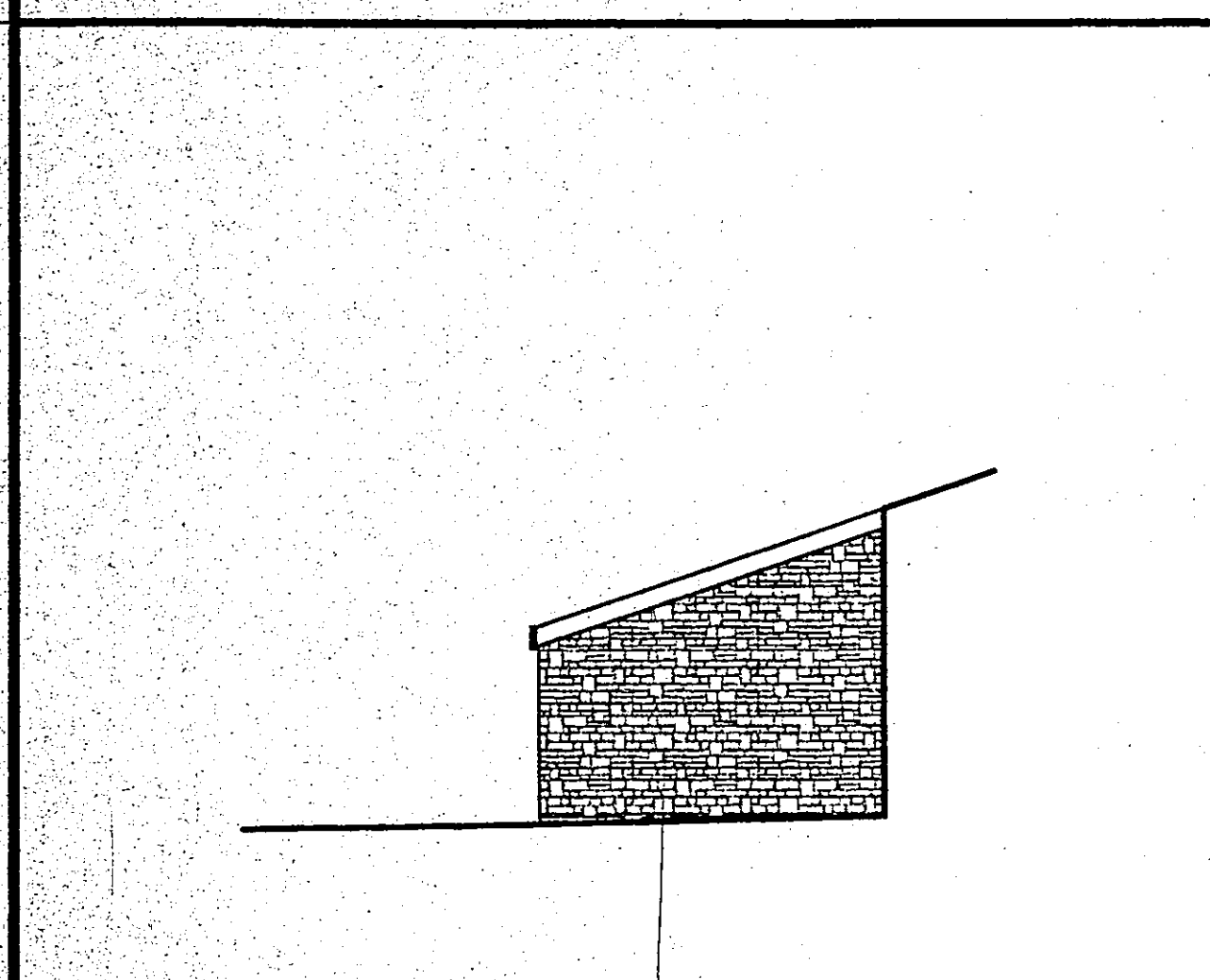
B



SOUTHWEST EXTERIOR ELEVATION

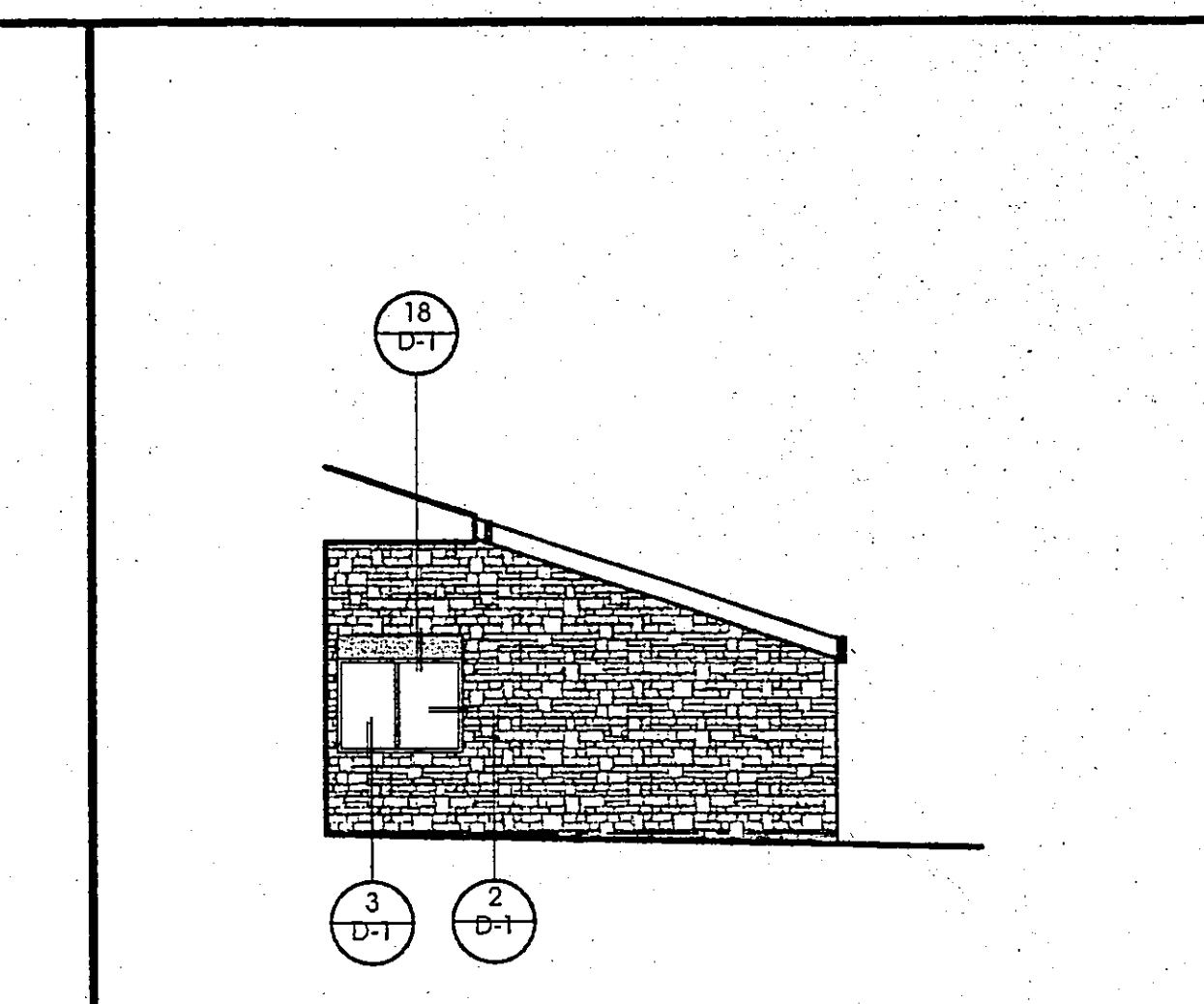
Scale: 1/8" = 1'-0"

C



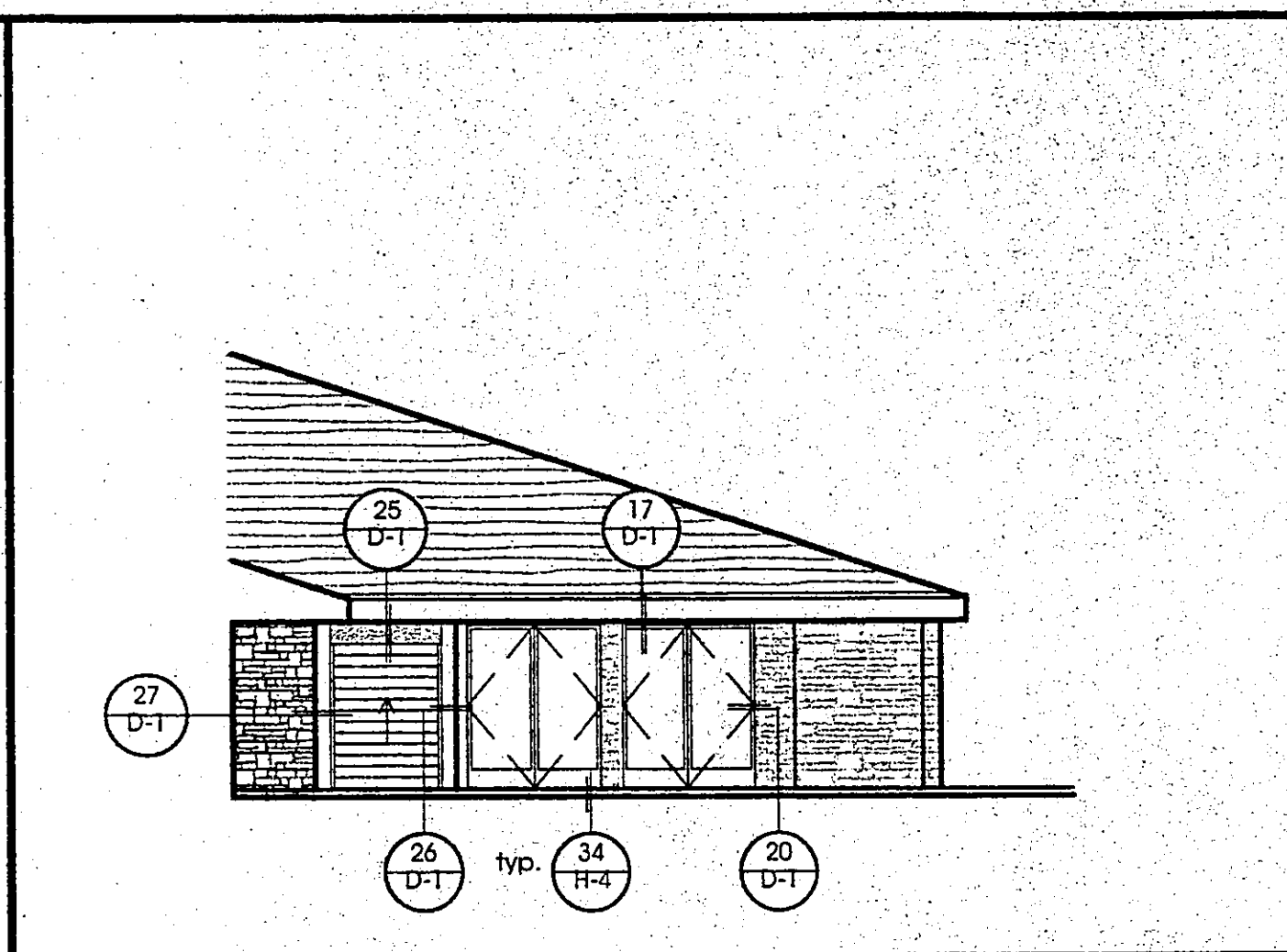
PARTIAL ENTRY ELEVATION

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



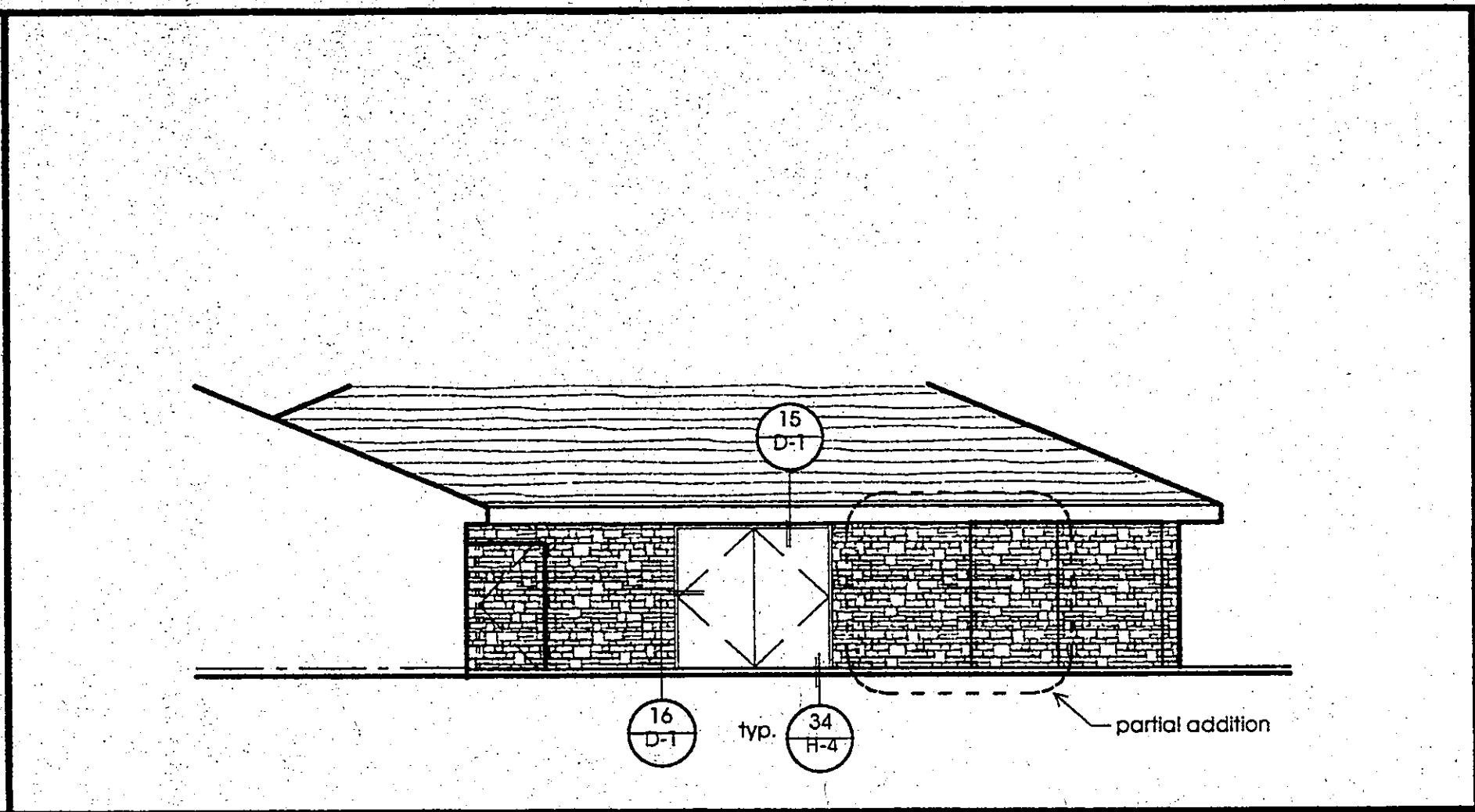
PARTIAL ENTRY ELEVATION

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



PARTIAL TERRACE ELEVATION

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

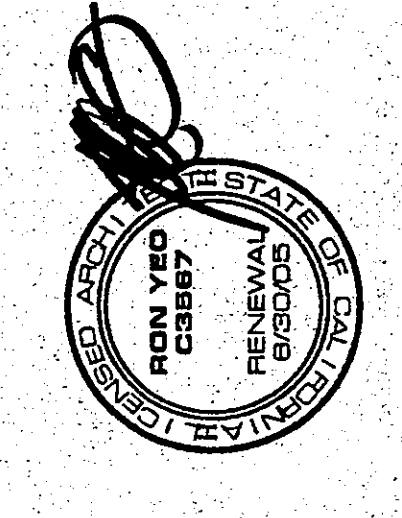


PARTIAL EXISTING ELEVATION

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

H

RON YEO, FAIA ARCHITECT, INC.
500 JASMINE AVENUE, CORONA DEL MAR,
CALIFORNIA 92625-7949-844-8111 FAX 949-444-0449
PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



12/23/03 update revisions

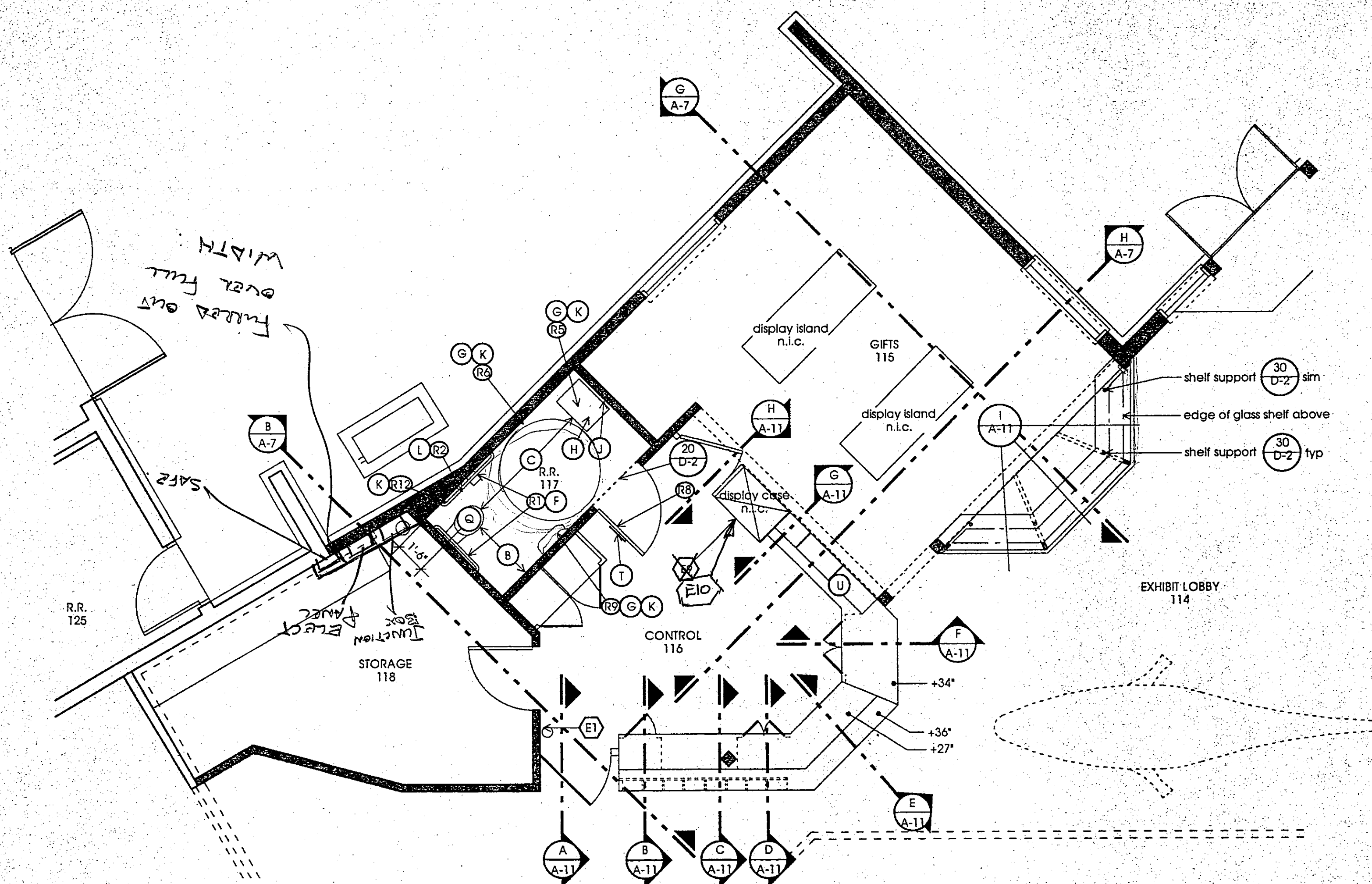
POINT VICENTE INTERPRETIVE
CENTER EXPANSION
31501 Palos Verdes Drive West
Rancho Palos Verdes, CA

Exterior
Elevations

DRAWN	PM/ANG
CHECKED	RY
DATE	2/1/99
SCALE	1/8" = 1'-0"
JOB NO.	95-120
SHEET	

ALL DIMENSIONS UNLESS OTHERWISE NOTED.
 DIMENSIONS TO FACE UNLESS NOTED OTHERWISE.
 FINISH GRADE UNLESS NOTED OTHERWISE.
 ALL WORK TO BE ACCORDING TO THE LATEST EDITIONS OF THE BUILDING CODES.
 ALL MATERIALS TO BE APPROVED BY THE ARCHITECT.
 ALL WORK TO BE ACCORDING TO THE LATEST EDITIONS OF THE BUILDING CODES.
 ALL MATERIALS TO BE APPROVED BY THE ARCHITECT.

THESE DIMENSIONS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

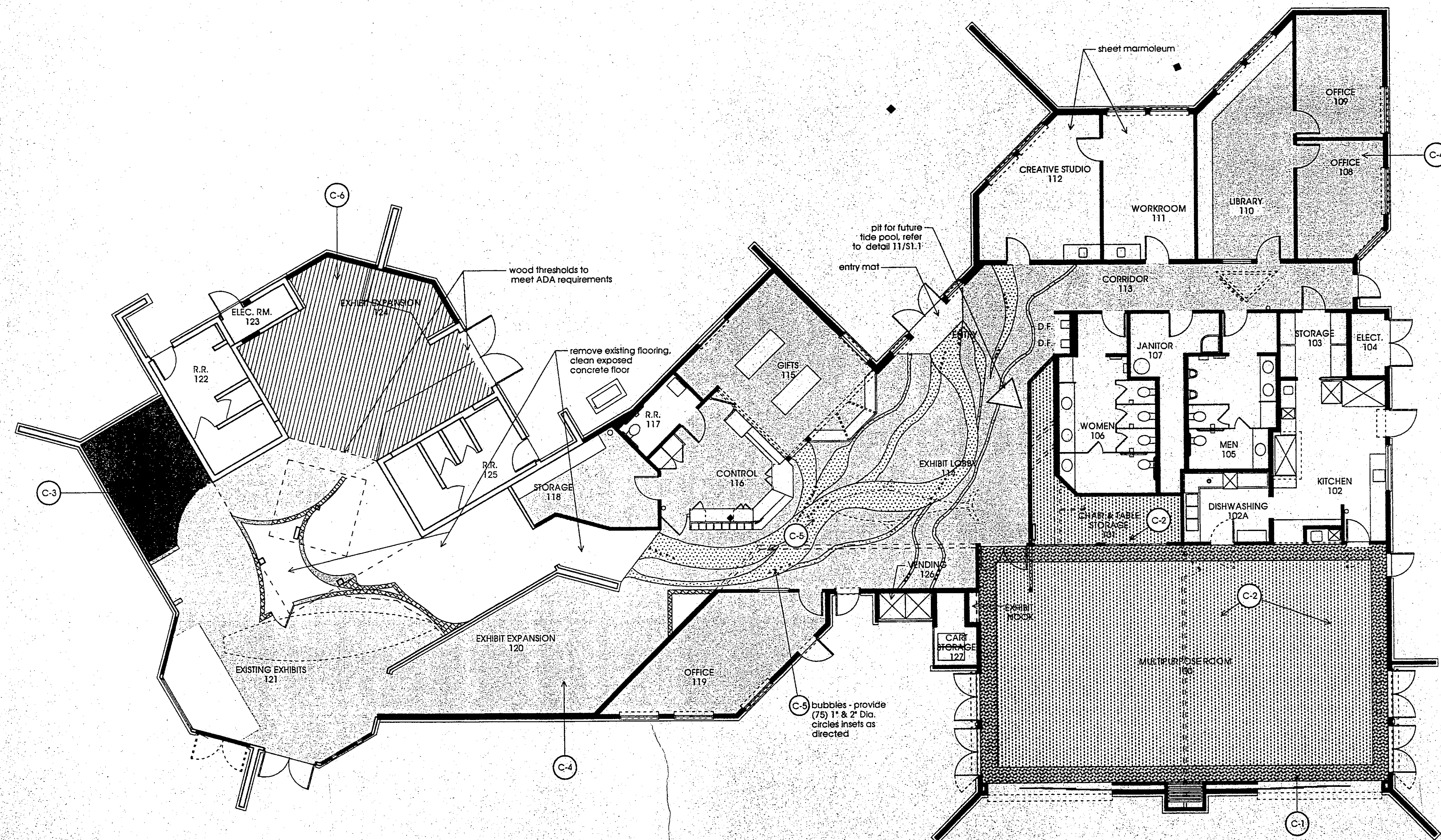


GIFT SHOP / CONTROL AREA FLOOR PLAN

Scale: 1/4" = 1'-0"

KITCHEN / RESTROOM FLOOR PLAN

Scale: 1/4" = 1'-0"



CARPET PLAN

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

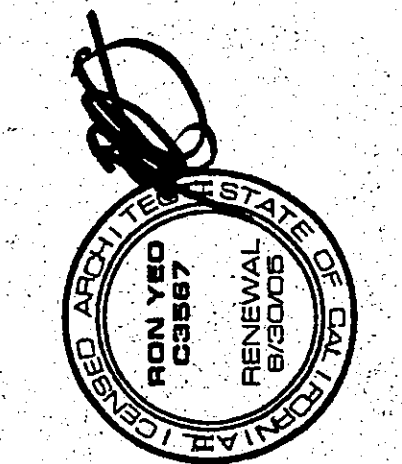
- Ⓐ accessibility notes
- Ⓔ equipment
- Ⓡ restroom accessory
- Ⓚ kitchen equipment
- Ⓐ elevation indicator
- ▲ section cut
- Ⓢ carpet
- Ⓢ ceramic tile

Refer to sheets A-1 thru A-3 for dimensions, notes, schedules and information not shown here

SYMBOL LEGEND

- ▨ C-1 carpet pattern
- ▨ C-2 carpet pattern
- ▨ C-3 carpet pattern
- ▨ C-4 carpet pattern
- ▨ C-5 carpet pattern
- ▨ C-6 wood floor

RON YEO, FAIA ARCHITECT INC.
 3001 CALIFORNIA ST., SUITE 100, DEL MAR, CA 92028
 TEL: 619-434-8111 FAX: 619-434-0449
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



12/23/03 update revisions

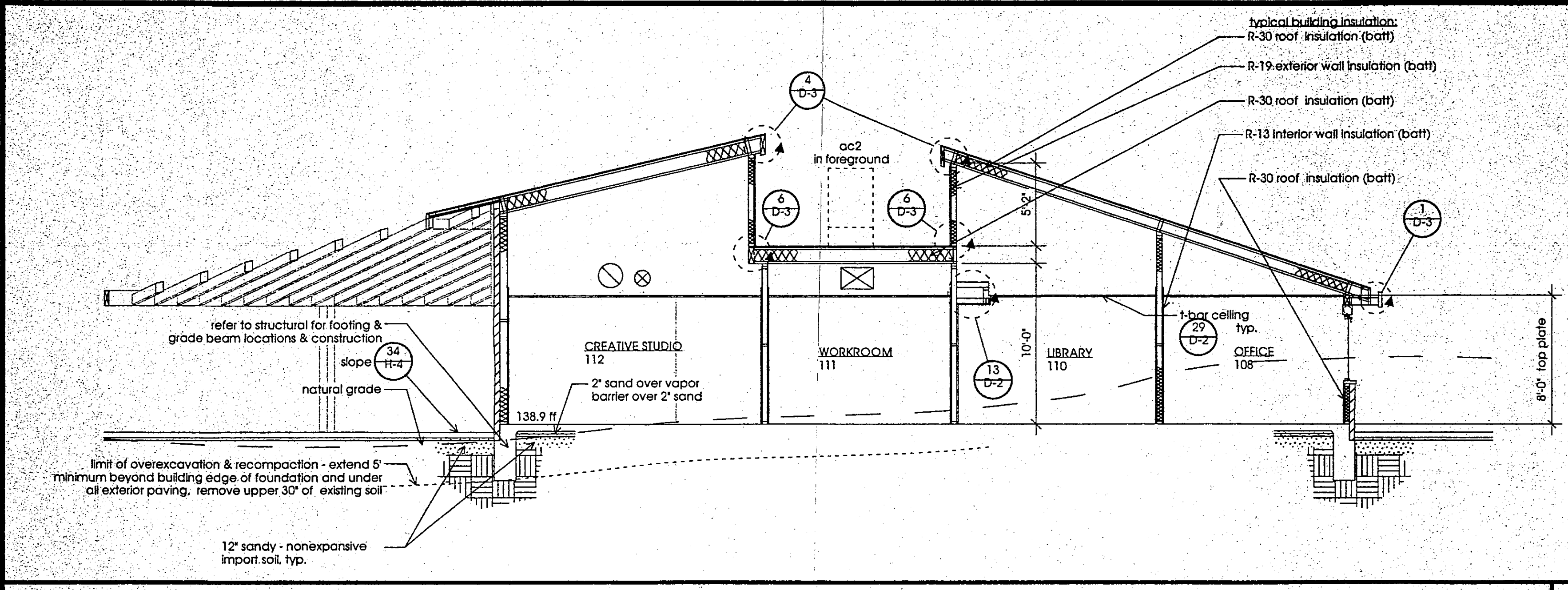
POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

Enlarged Plan/
 Carpet Plan

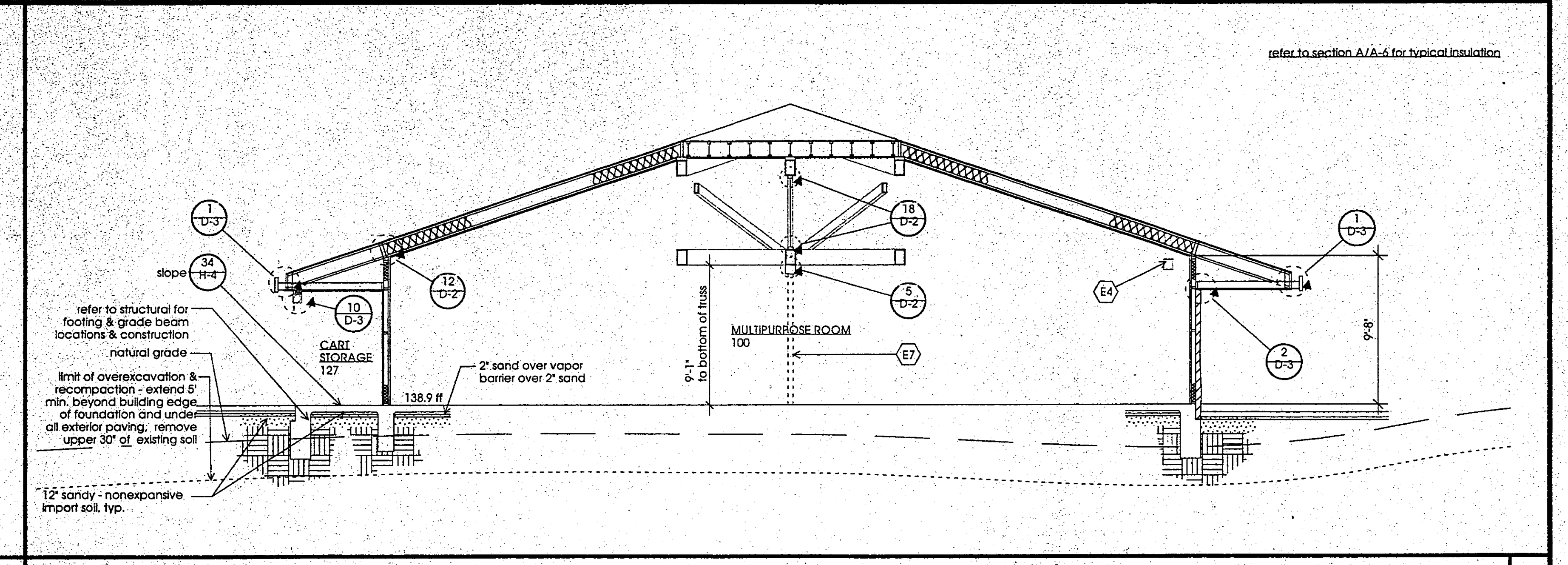
DRAWN	PM/MS
CHECKED	RY
DATE	2/1/99
SCALE	(as noted)
JOB. NO.	95-120
SHEET	

A-5
 18 OF 61 SHEETS

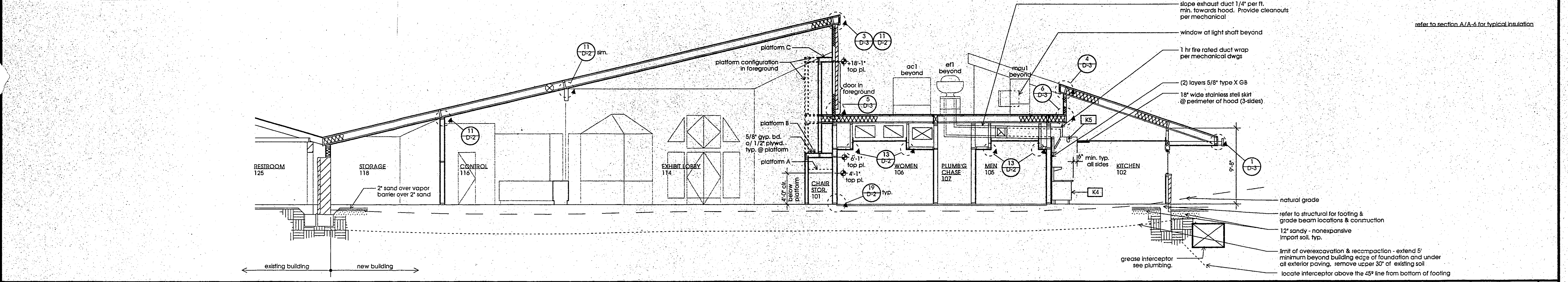
THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
 1/2"



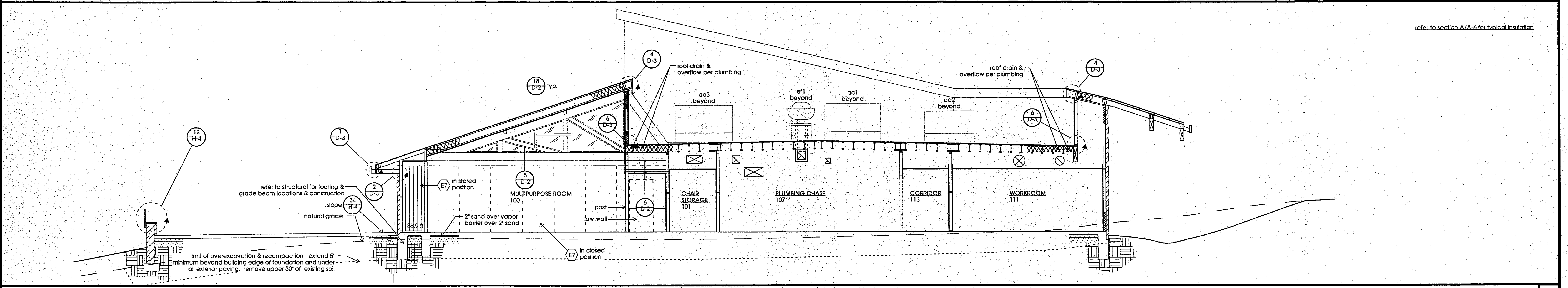
BUILDING SECTION A Scale: 3/16" = 1'-0"



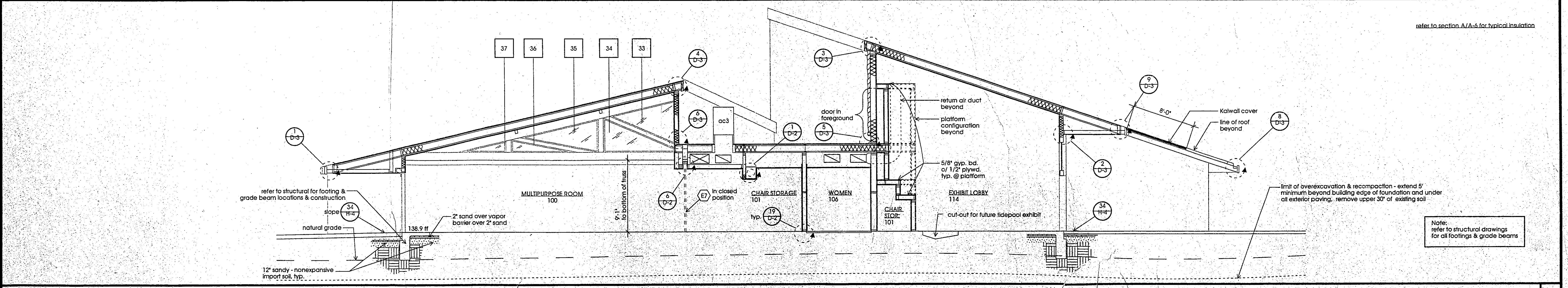
BUILDING SECTION B Scale: 3/16" = 1'-0"



BUILDING SECTION C Scale: 3/16" = 1'-0"

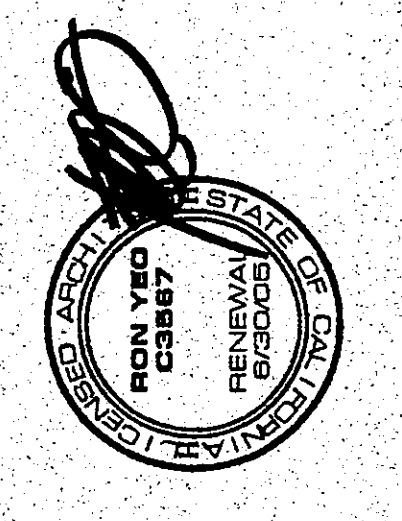


BUILDING SECTION D Scale: 3/16" = 1'-0"



BUILDING SECTION E Scale: 3/16" = 1'-0"

RON YEO, FAIA ARCHITECT INC.
 500 JASMINE AVENUE, CORONA DEL MAR
 CALIFORNIA 92625 P: 949-644-8111 F: 949-644-0449
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



POINT VICENTE EXPANSION
 CENTER FOR THE WEST
 31501 Palms Verdes Drive West
 Palmdale, Palms Verdes, CA

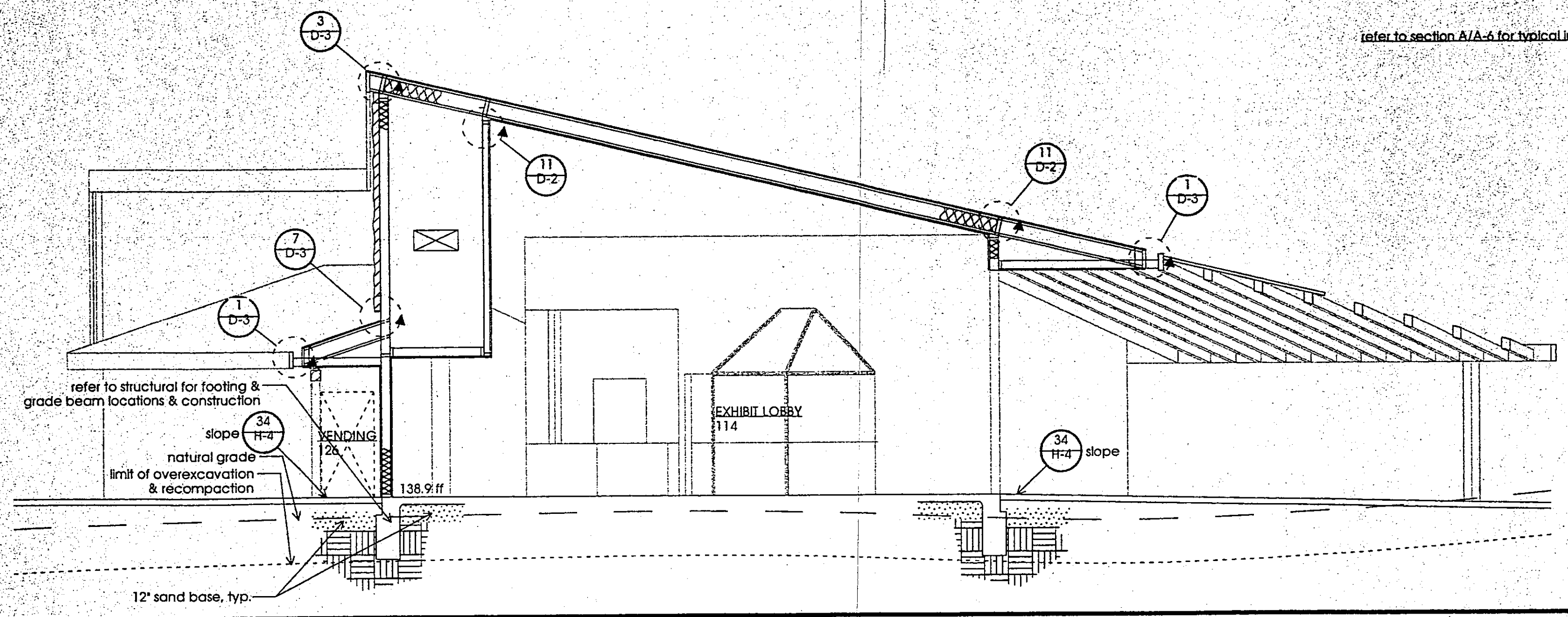
12/23/03 update revisions

Building Sections

DRAWN	RM/MS
CHECKED	RY
DATE	2/1/99
SCALE	1/8" = 1'-0"
JOB NO.	95-120
SHEET	A-6

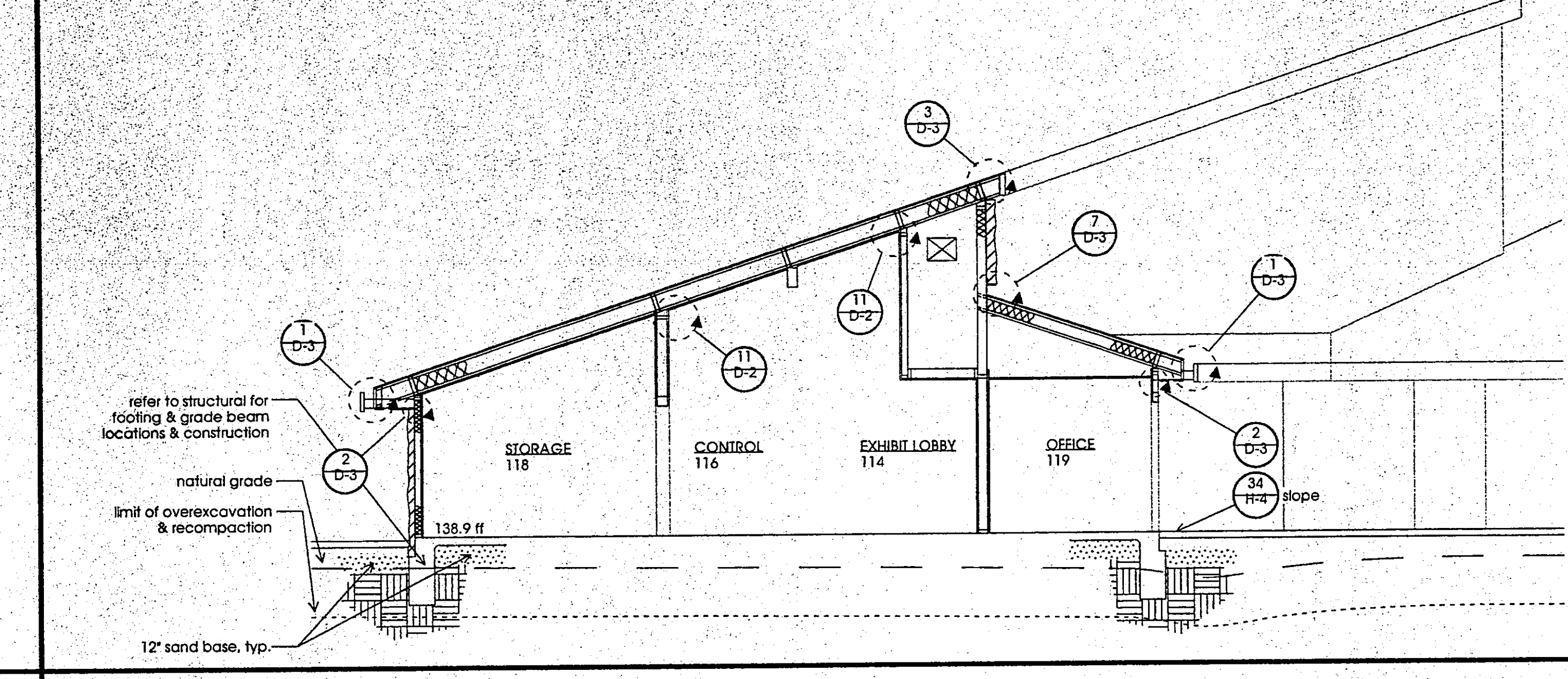
1 OF 6 SHEETS

THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY



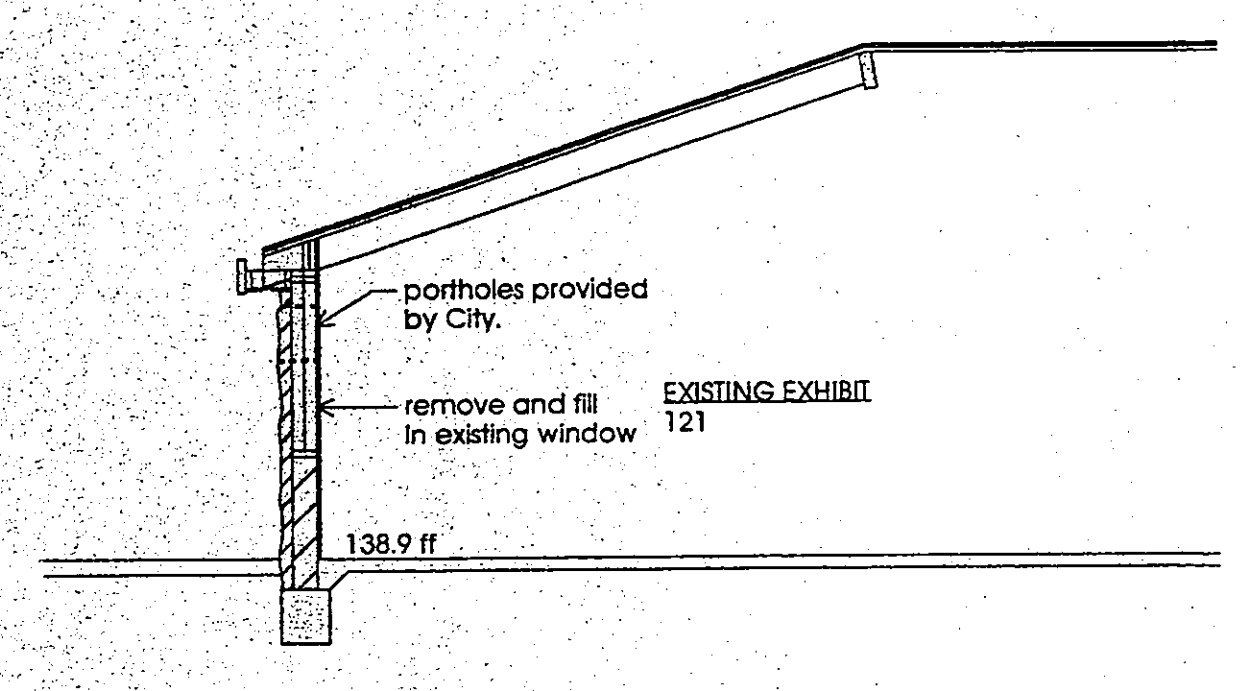
BUILDING SECTION A

Scale: 3/16" = 1'-0"



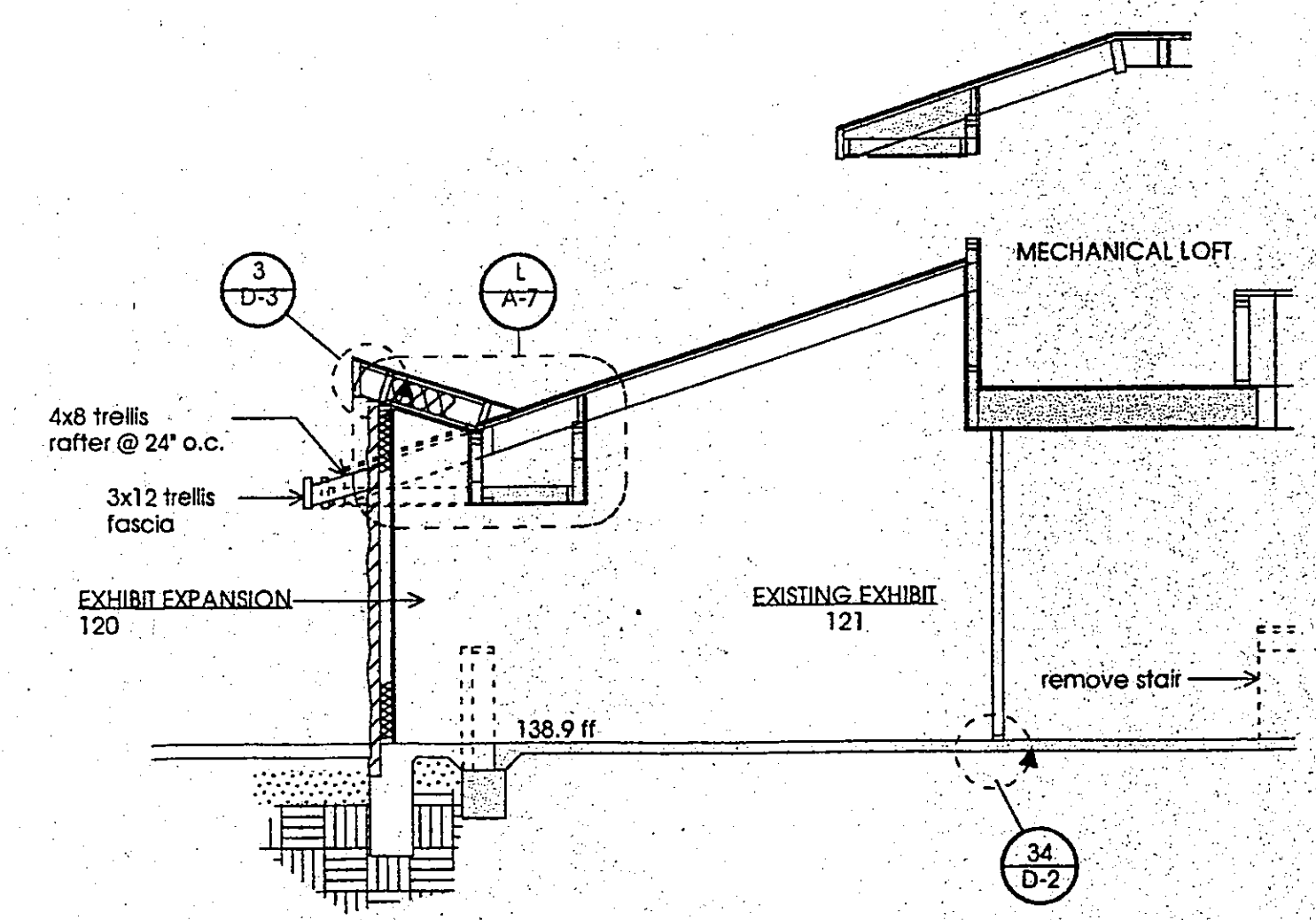
BUILDING SECTION B

Scale: 3/16" = 1'-0"



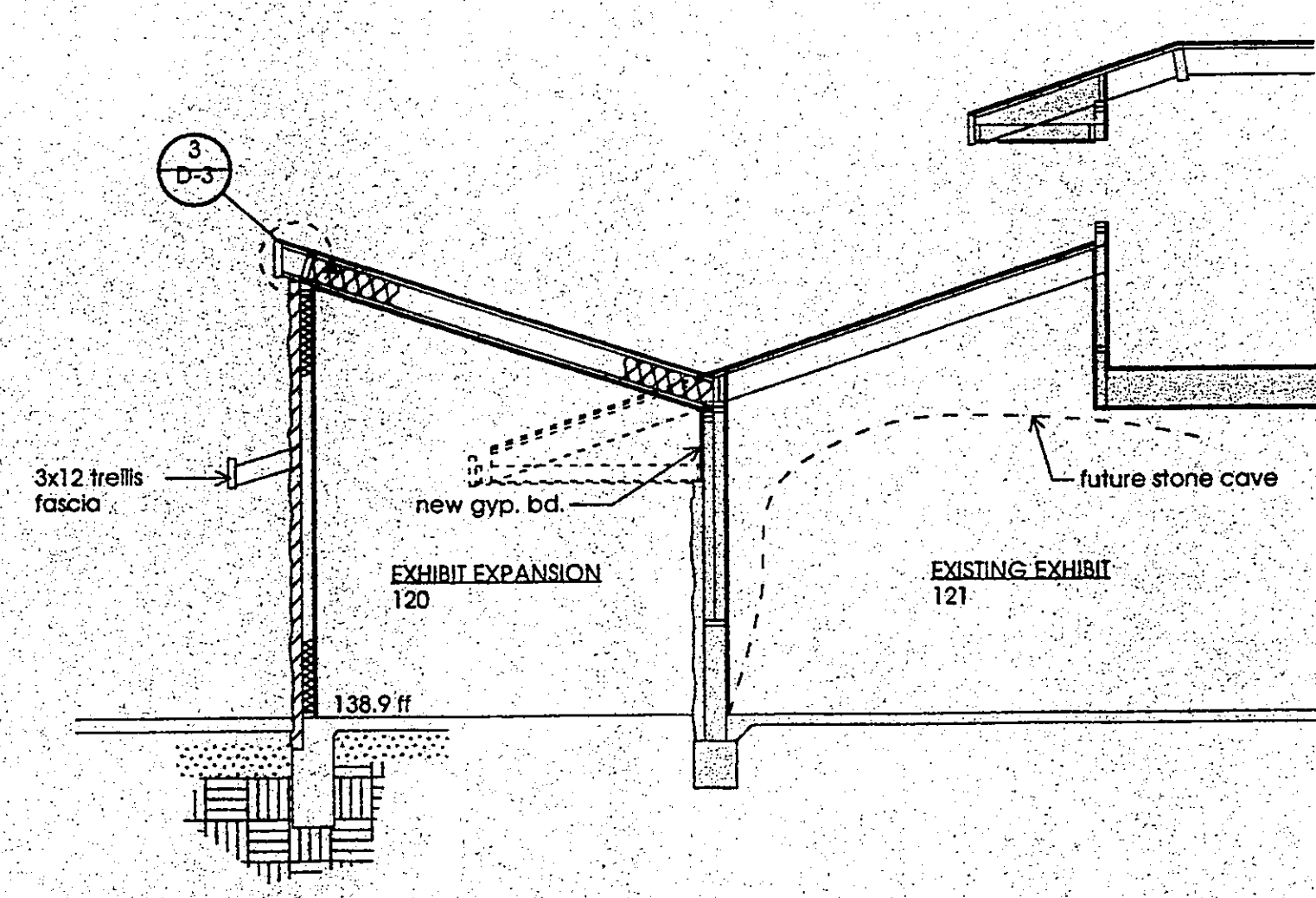
BUILDING SECTION C

Scale: 3/16" = 1'-0"



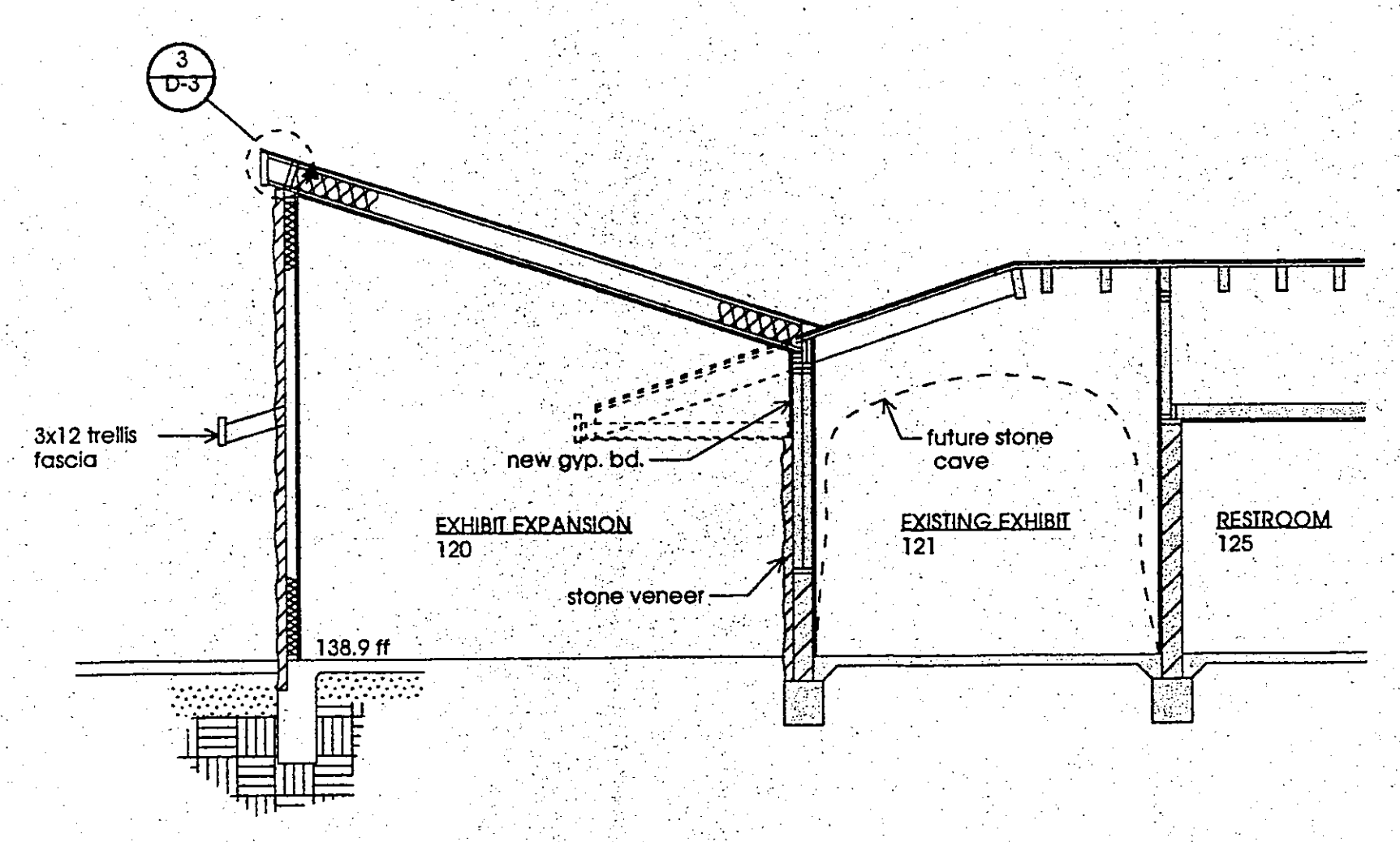
BUILDING SECTION D

Scale: 3/16" = 1'-0"



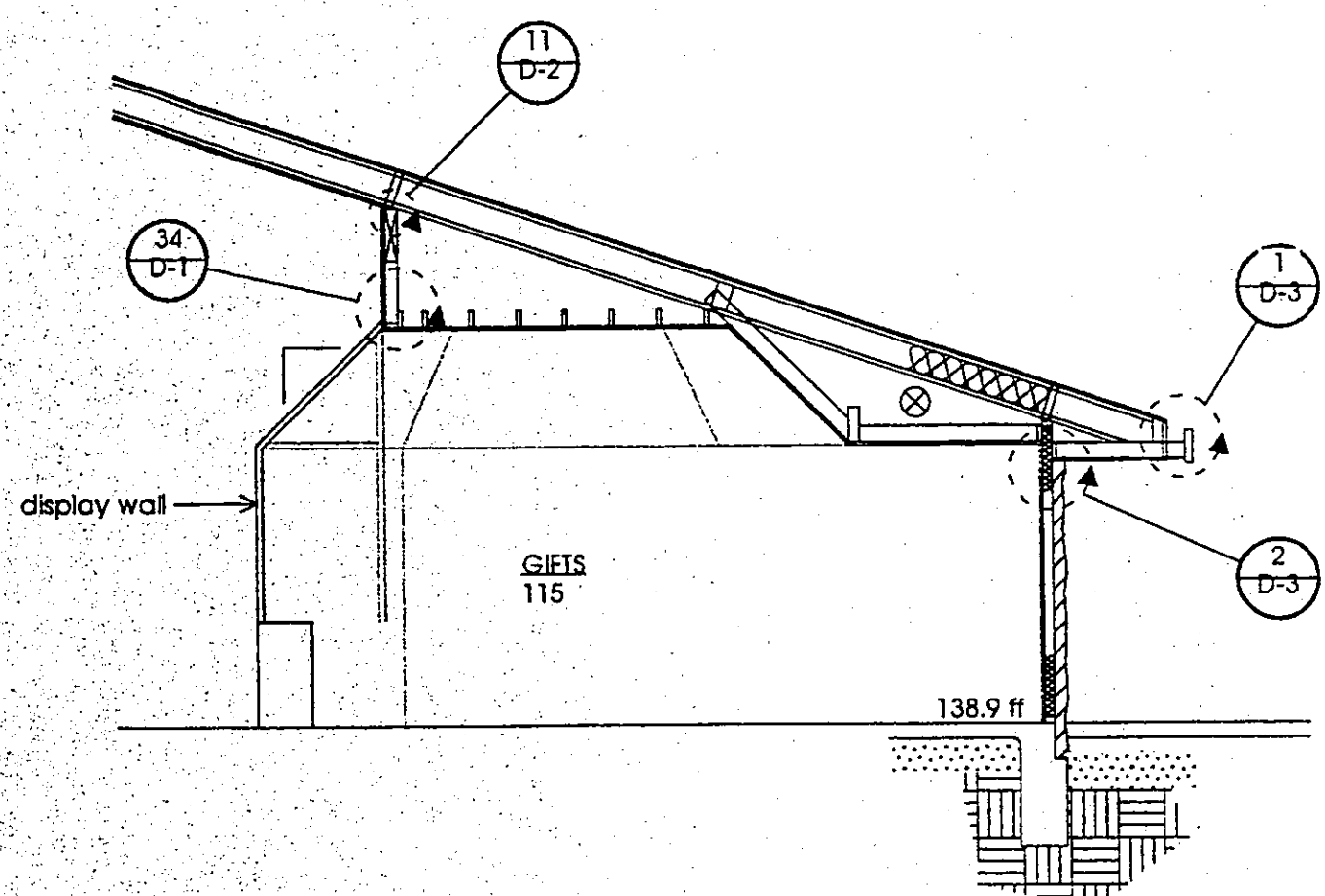
BUILDING SECTION E

Scale: 3/16" = 1'-0"



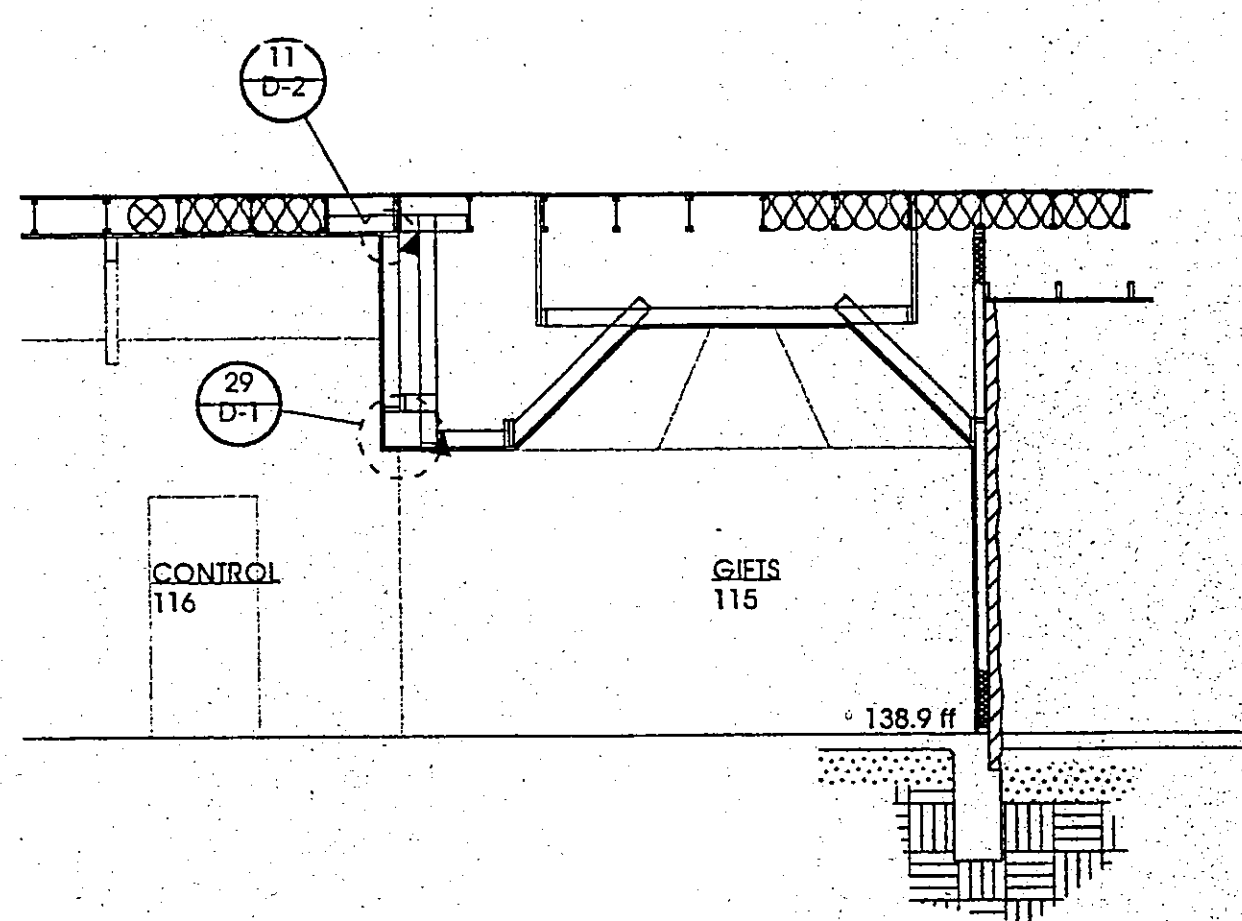
BUILDING SECTION F

Scale: 3/16" = 1'-0"



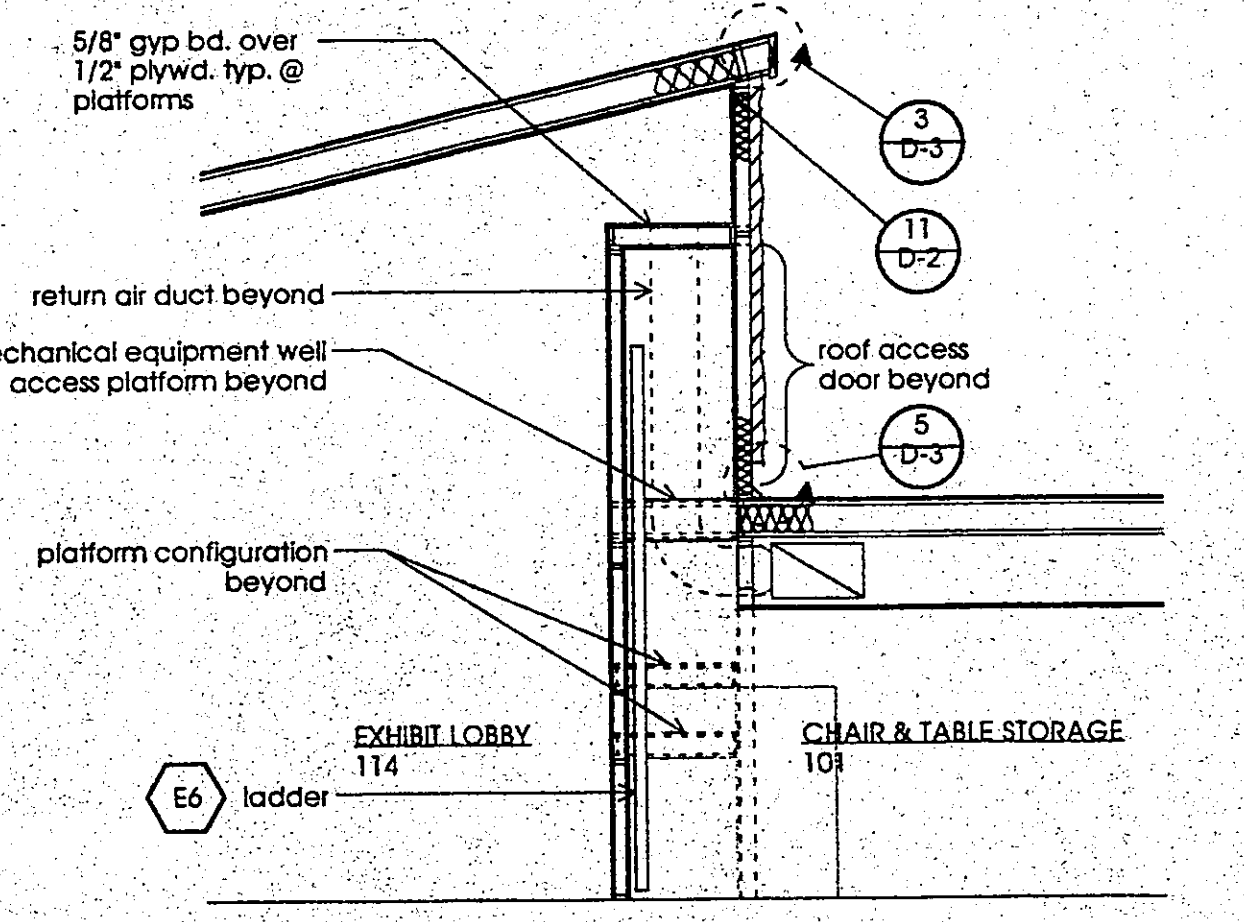
BUILDING SECTION G

Scale: 3/16" = 1'-0"



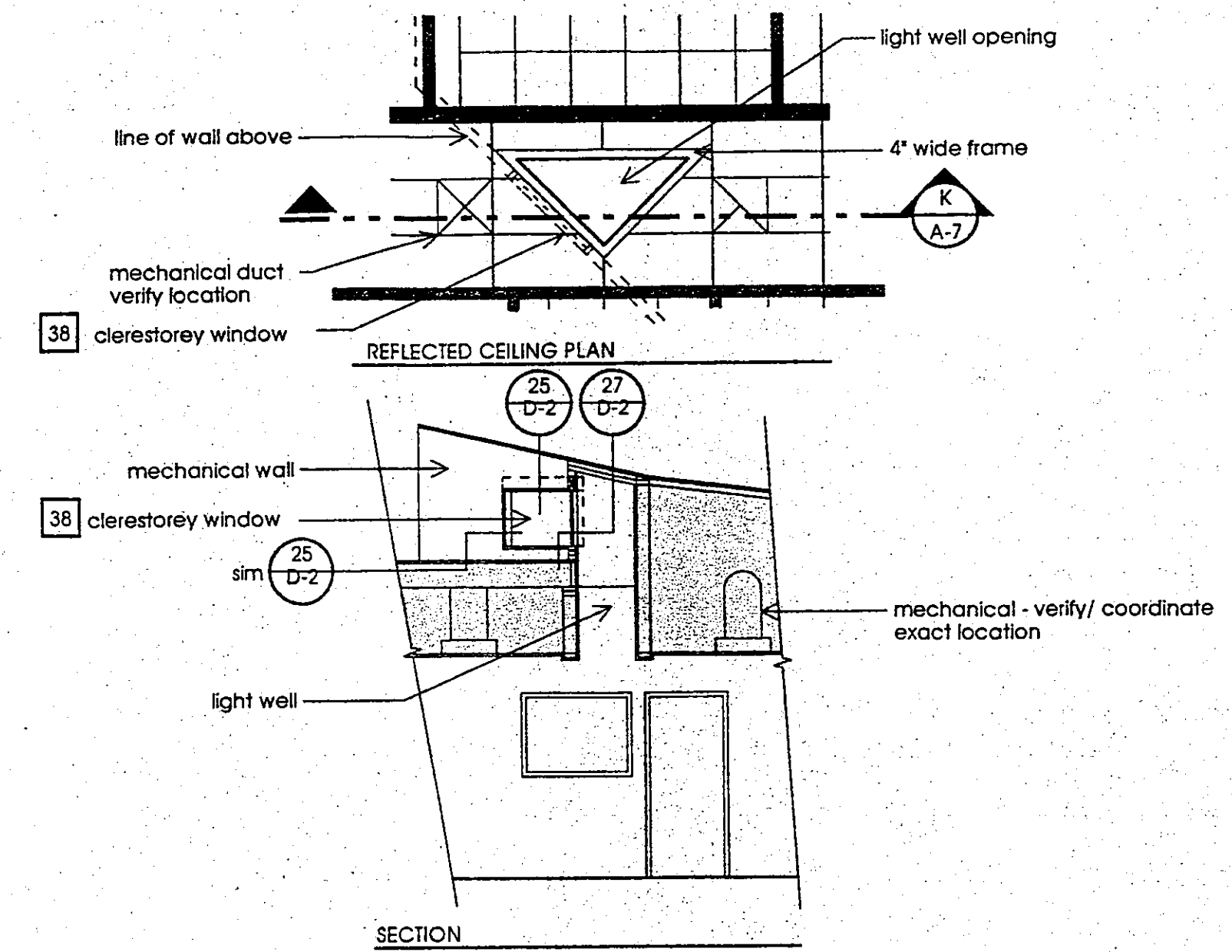
BUILDING SECTION H

Scale: 3/16" = 1'-0"



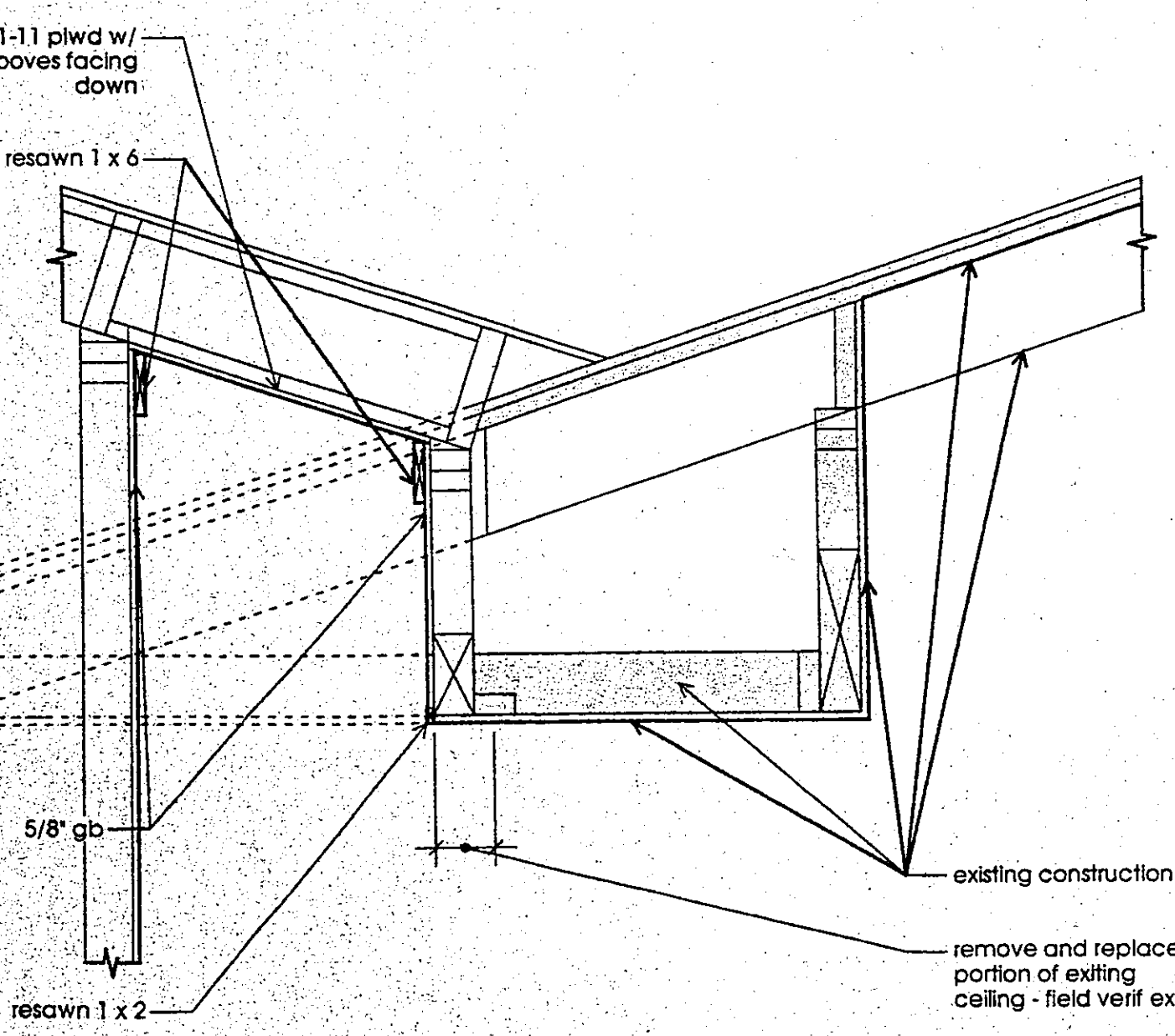
BUILDING SECTION J

Scale: 3/16" = 1'-0"



ENLARGED CEILING PLAN/BUILDING SECTION K

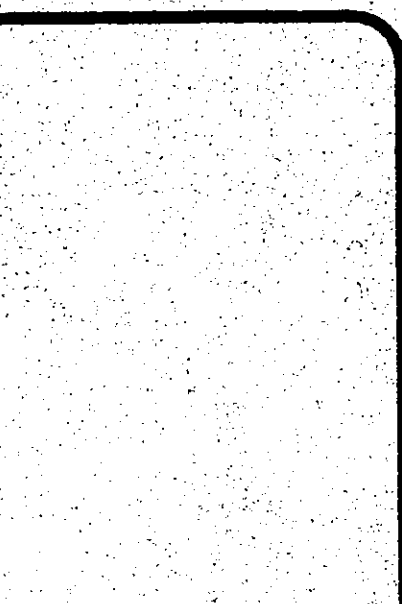
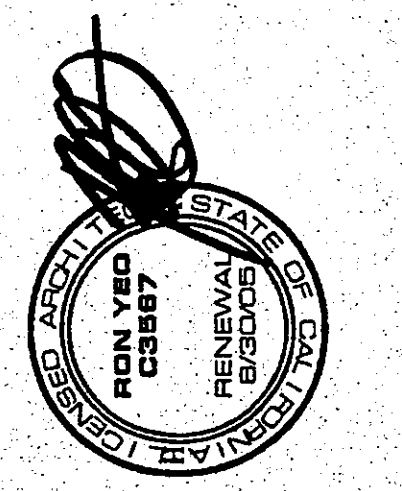
Scale: 3/16" = 1'-0"



PARTIAL BUILDING SECTION L

Scale: 3/4" = 1'-0"

RON YEO FAIA ARCHITECT, INC.
 500 JASMINE AVENUE, CORONA DEL MAR
 CALIFORNIA 92625 P-949-444-8111 F-949-544-0449
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



12/23/03 update revisions

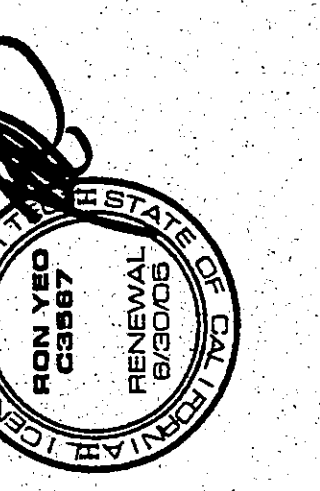
POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31150 T. Paul Jones Drive West
 Rancho Palms Verde, CA

Building Sections

DRAWN	FM/MG
CHECKED	RY
DATE	2/1/03
SCALE	3/16" = 1'-0"
JOB NO.	95-120
SHEET	

A-7
 20 OF 61 SHEETS

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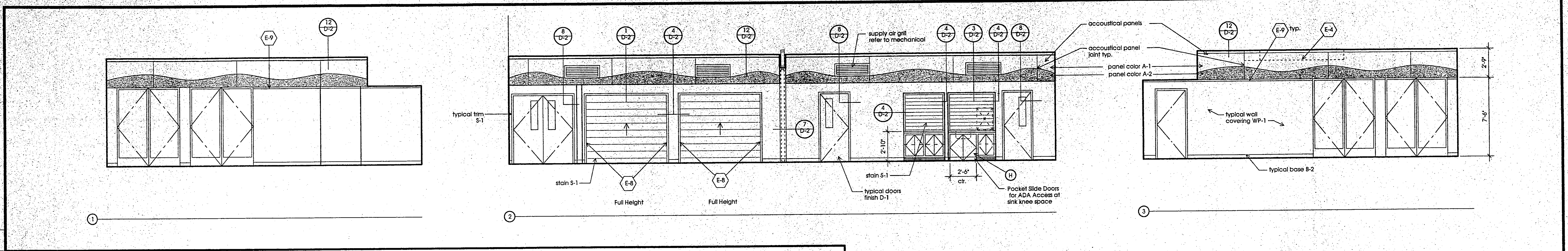
12/23/03 update revisions

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 By Ronald Yeo, Patrick Marr, Chava West
 Rancho Palms Ventures, CA

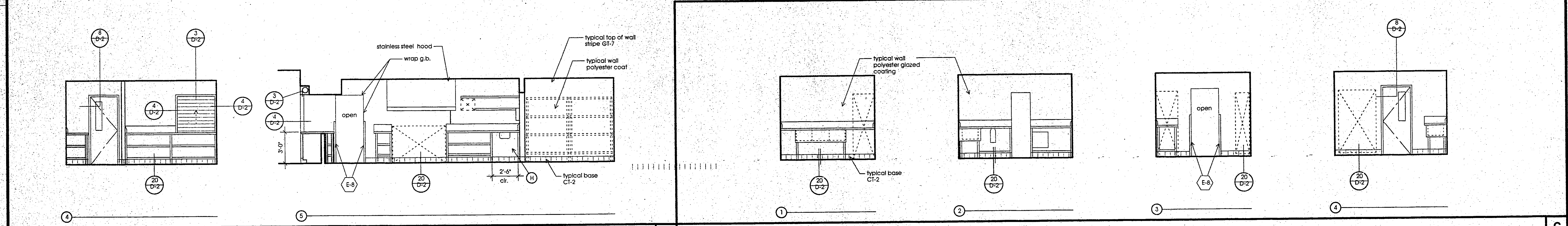
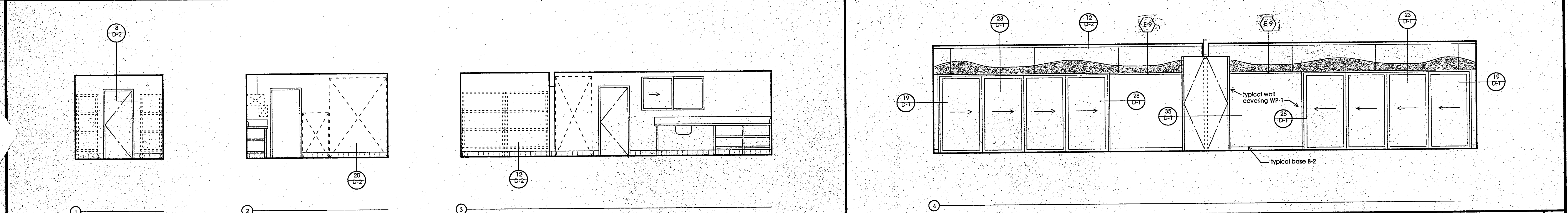
Interior Elevations

DRAWN: PM/MG
 CHECKED: BY
 DATE: 2/1/99
 SCALE: (as noted)
 JOB NO.: 95-120
 SHEET

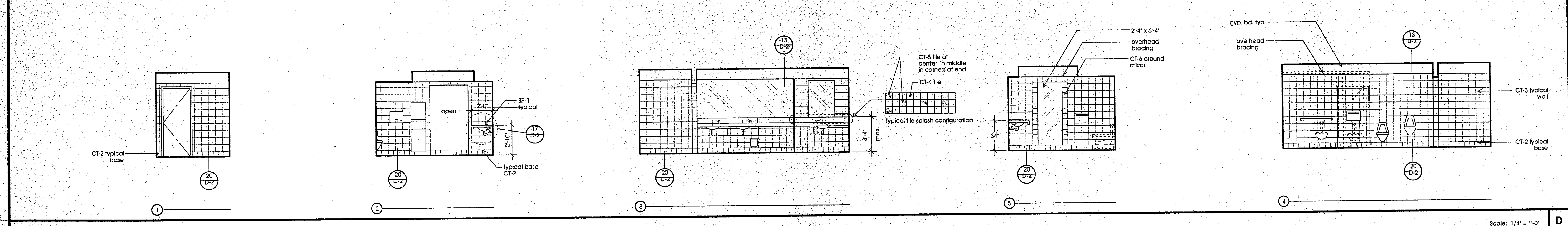
A-8
 21 OF 47 SHEETS



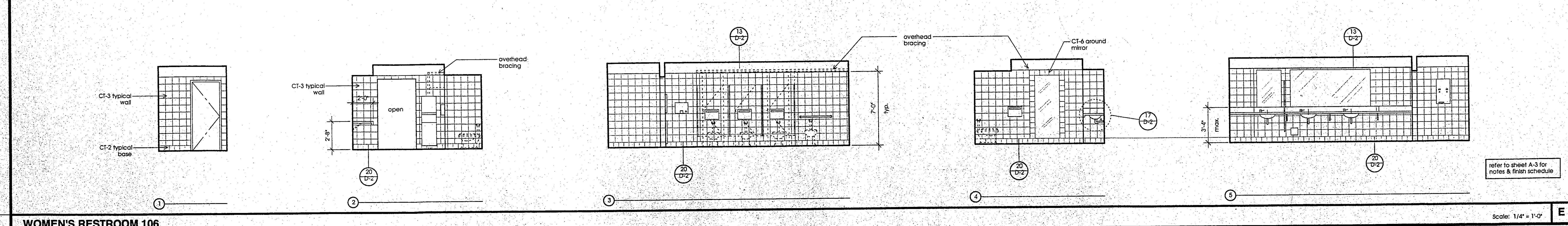
MULTIPURPOSE ROOM 100 Scale: 1/4" = 1'-0" **A**



KITCHEN 102 / STORAGE 103 Scale: 1/4" = 1'-0" **B**



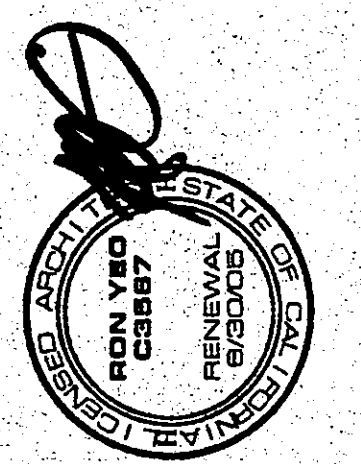
DISHWASHING 102A Scale: 1/4" = 1'-0" **C**



MEN'S RESTROOM 105 Scale: 1/4" = 1'-0" **D**

WOMEN'S RESTROOM 106 Scale: 1/4" = 1'-0" **E**

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 FORM OR MANNER, nor are they to be assigned to a third party for use in any project.
 Ron Yeo, Architect, Inc.



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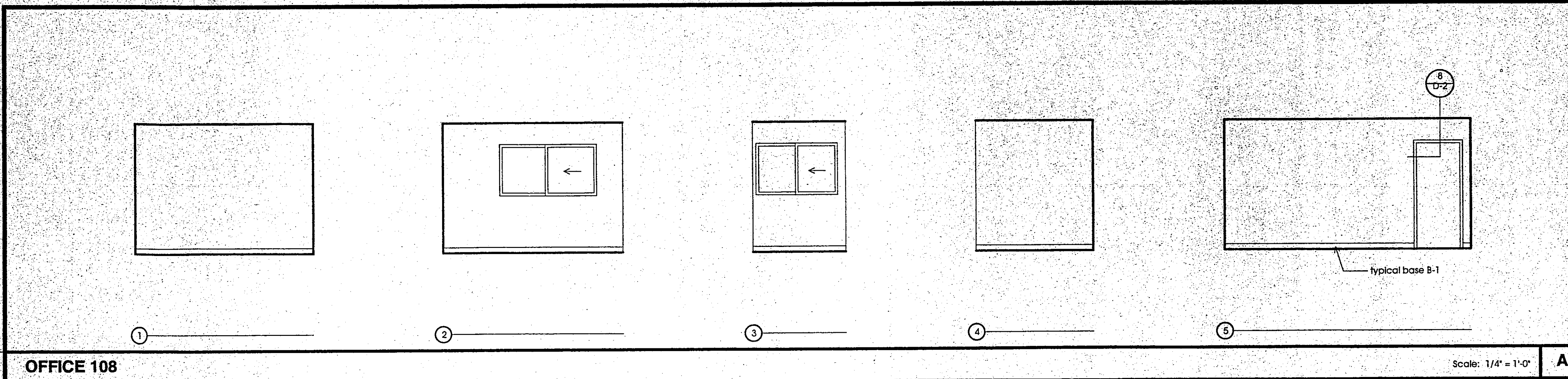
POINT VICENTE INTERPRETIVE
 CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

Interior
 Elevations

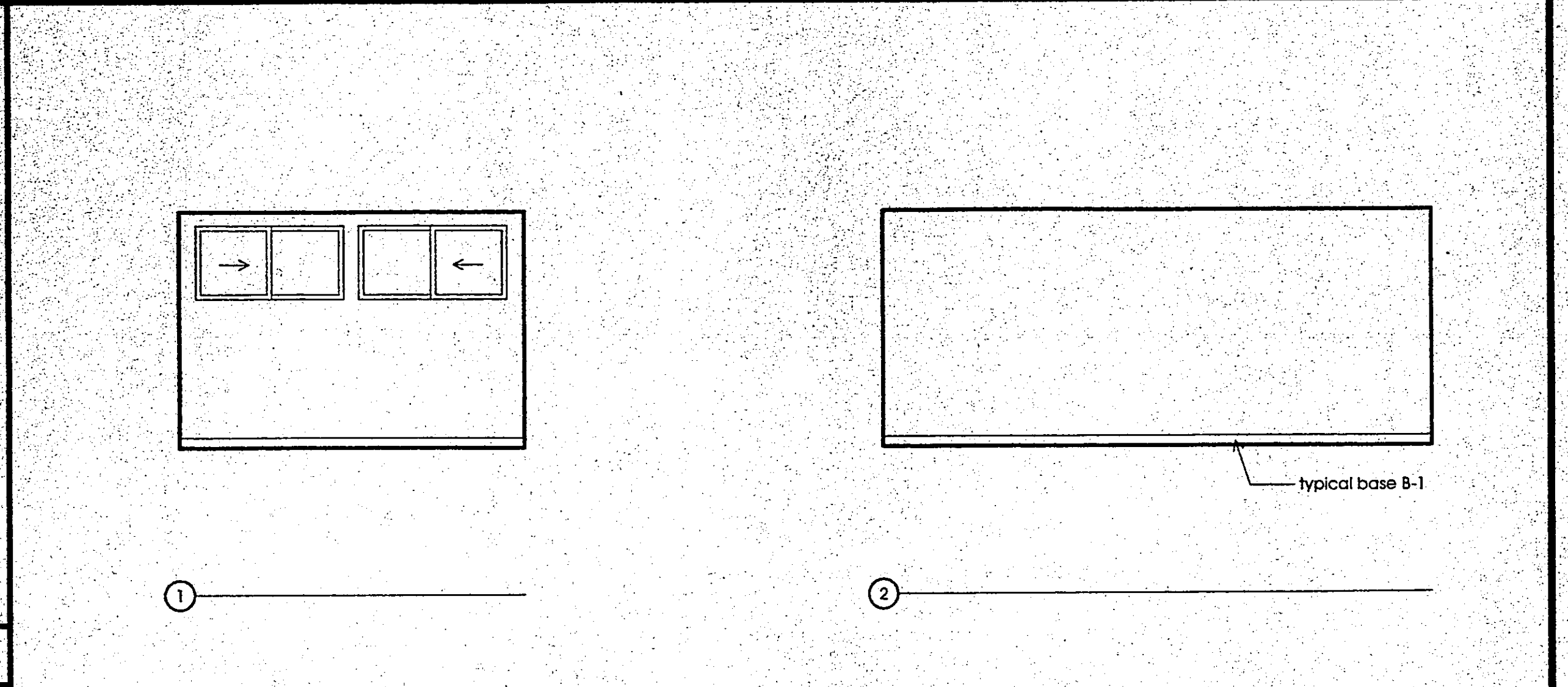
DRAWN	PM/MG
CHECKED	BY
DATE	2/1/99
SCALE	(as noted)
JOB. NO.	95-120
SHEET	

A-9

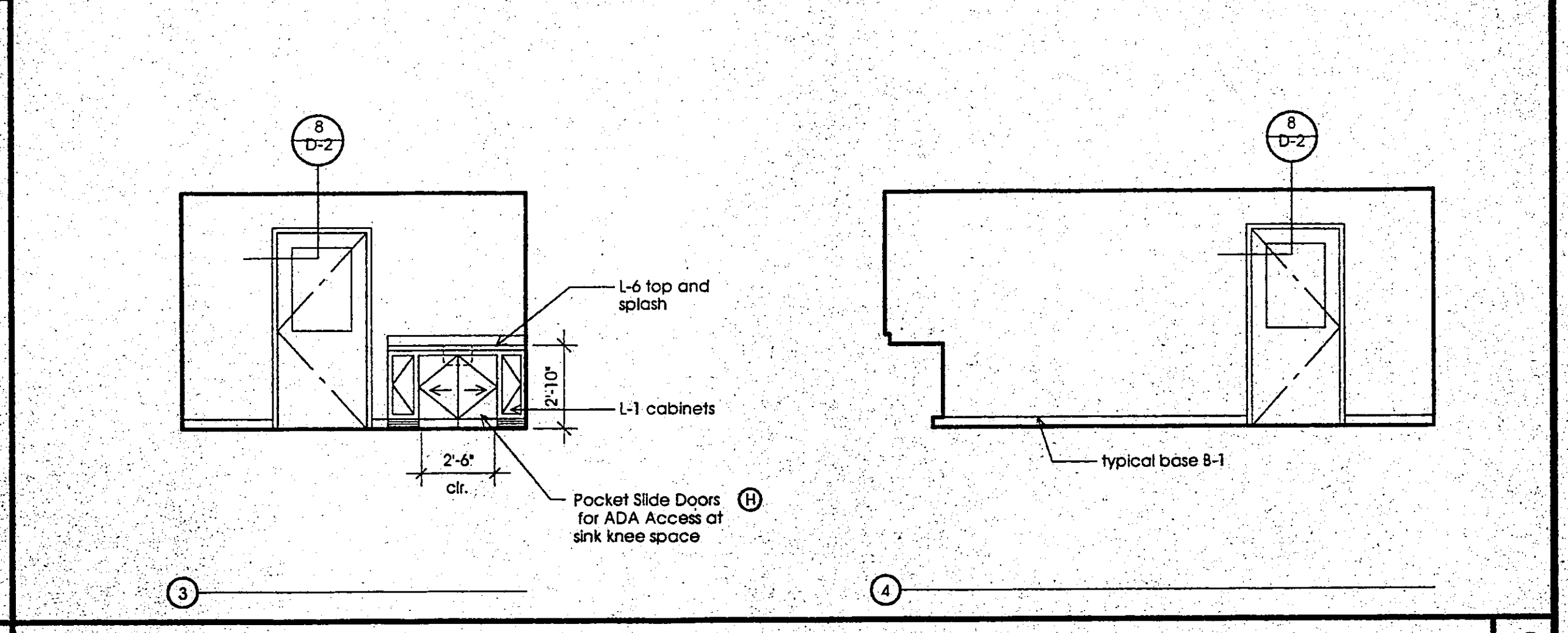
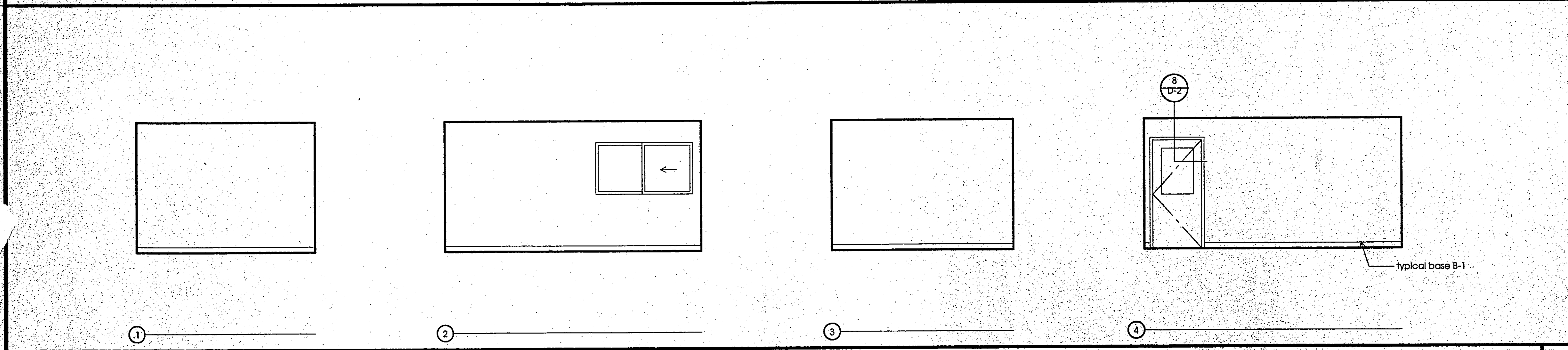
22 OF 61 SHEETS



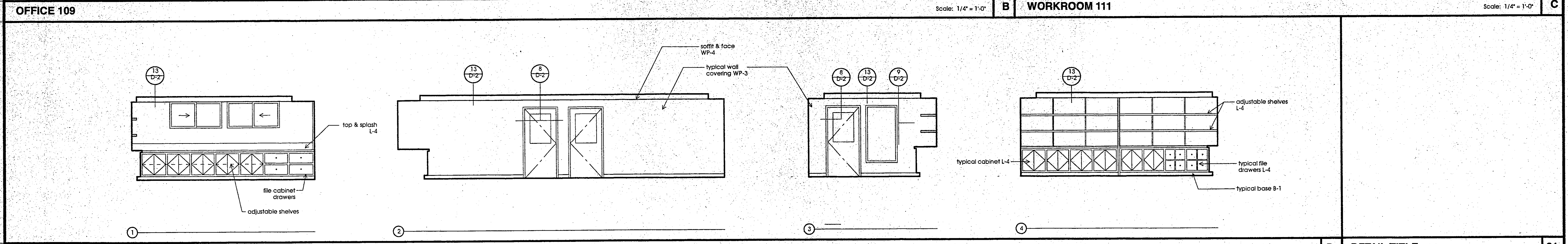
OFFICE 108 Scale: 1/4" = 1'-0" A



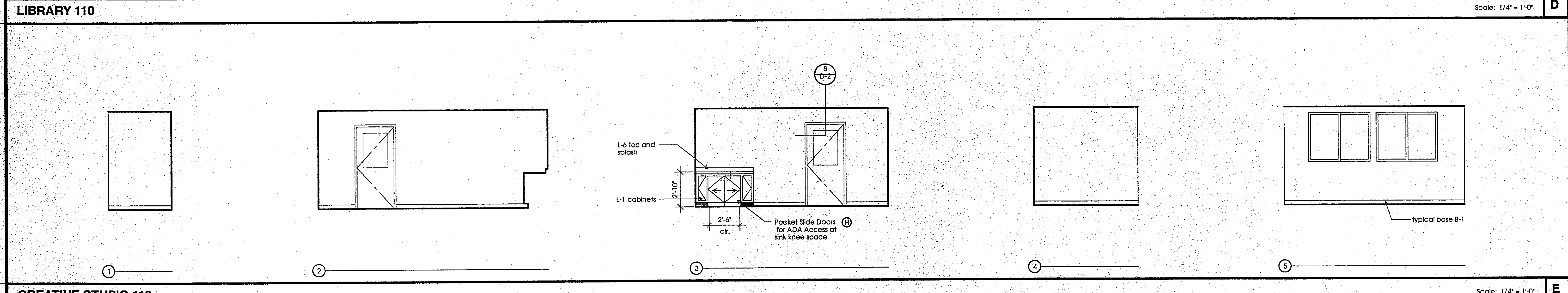
OFFICE 109 Scale: 1/4" = 1'-0" B



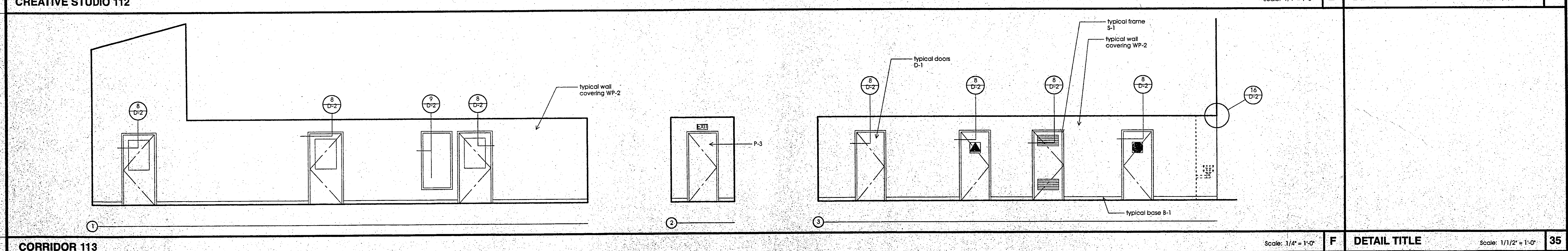
WORKROOM 111 Scale: 1/4" = 1'-0" C



LIBRARY 110 Scale: 1/4" = 1'-0" D



CREATIVE STUDIO 112 Scale: 1/4" = 1'-0" E



CORRIDOR 113 Scale: 1/4" = 1'-0" F

DETAIL TITLE Scale: 1/1/2" = 1'-0" 21

DETAIL TITLE Scale: 1/1/2" = 1'-0" 28

DETAIL TITLE Scale: 1/1/2" = 1'-0" 35

1/2
 2/23/03

indicated
dimension
wall
ceiling/window
indicated
horizontal
border
vertical grid
paper edges
vertical

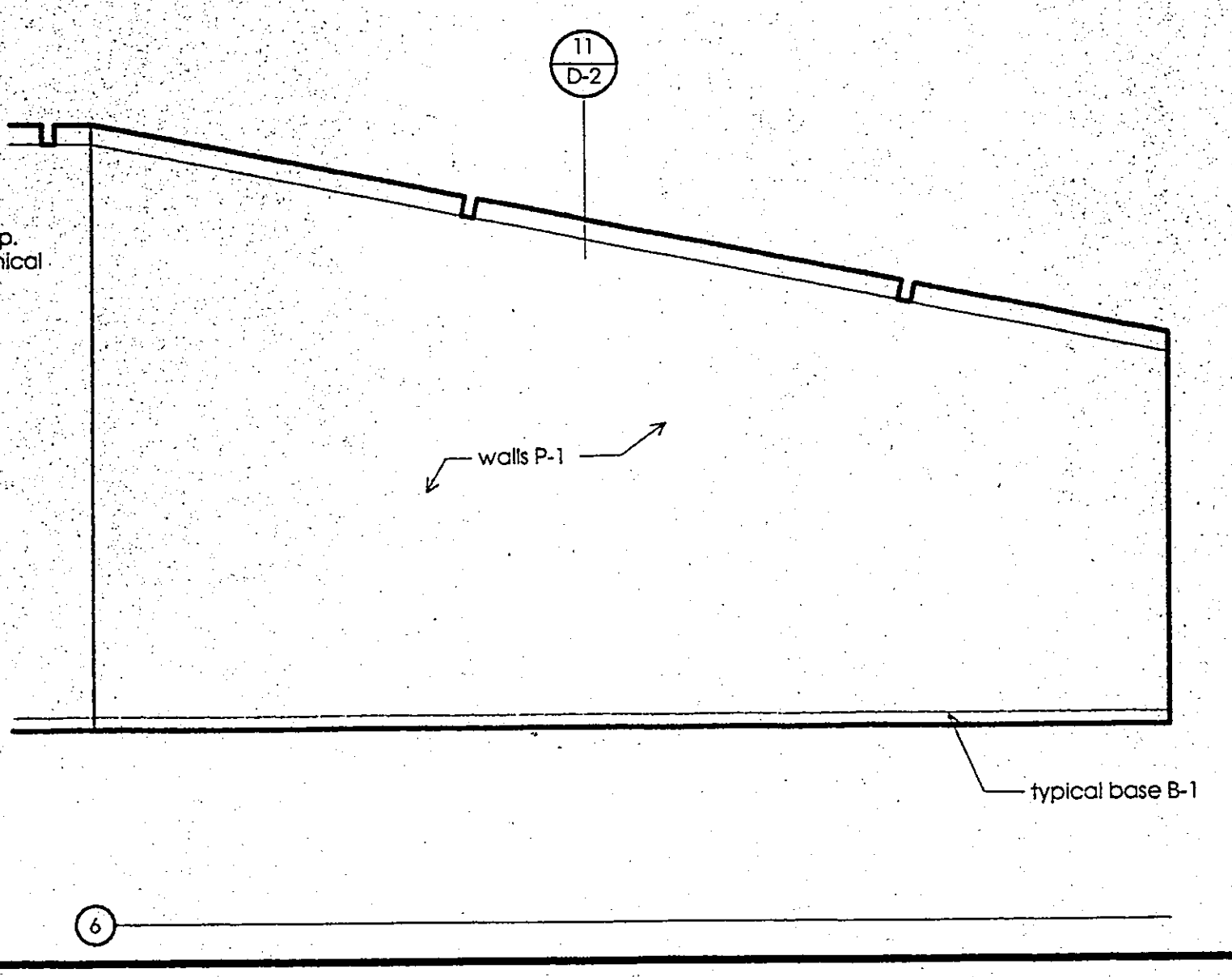
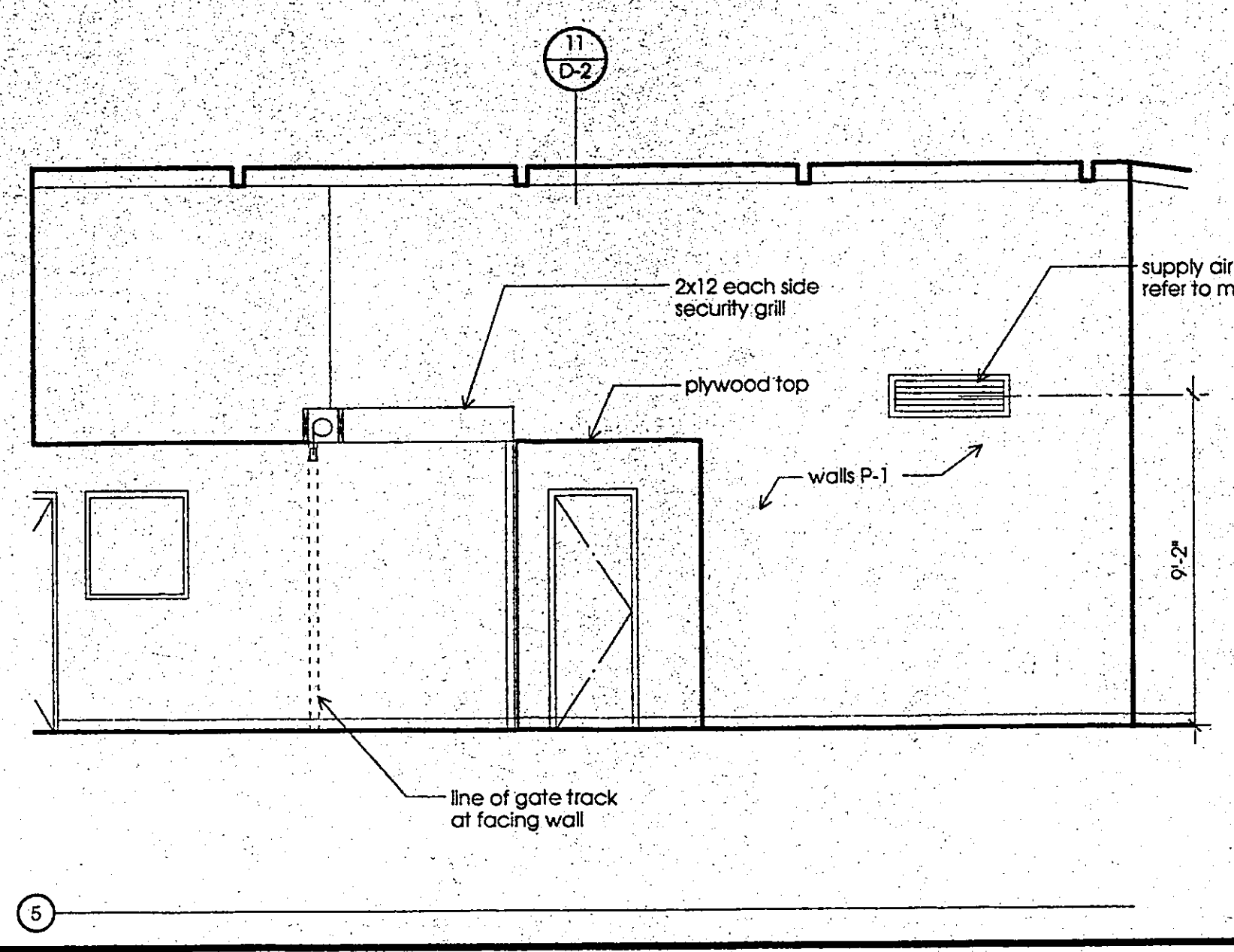
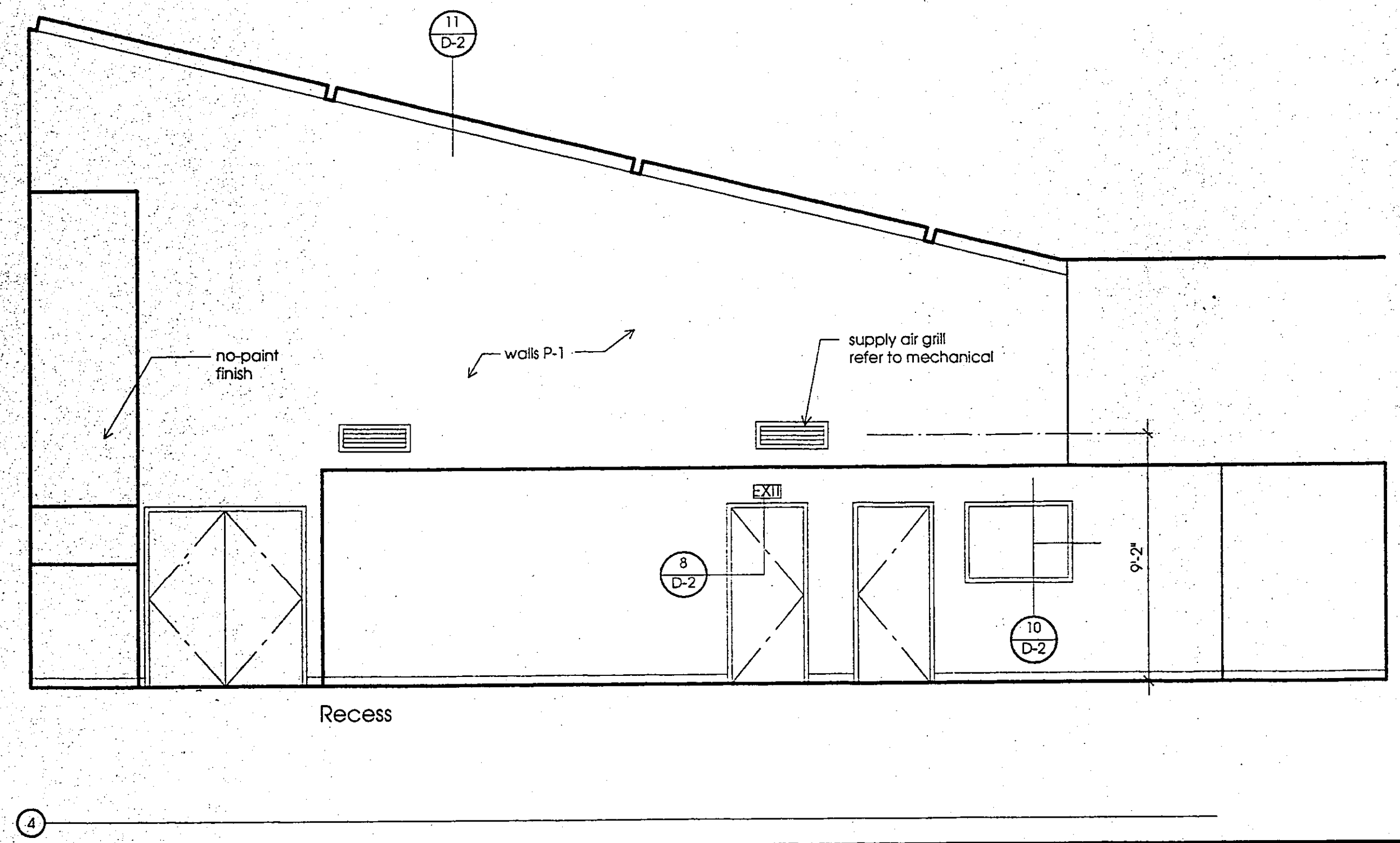
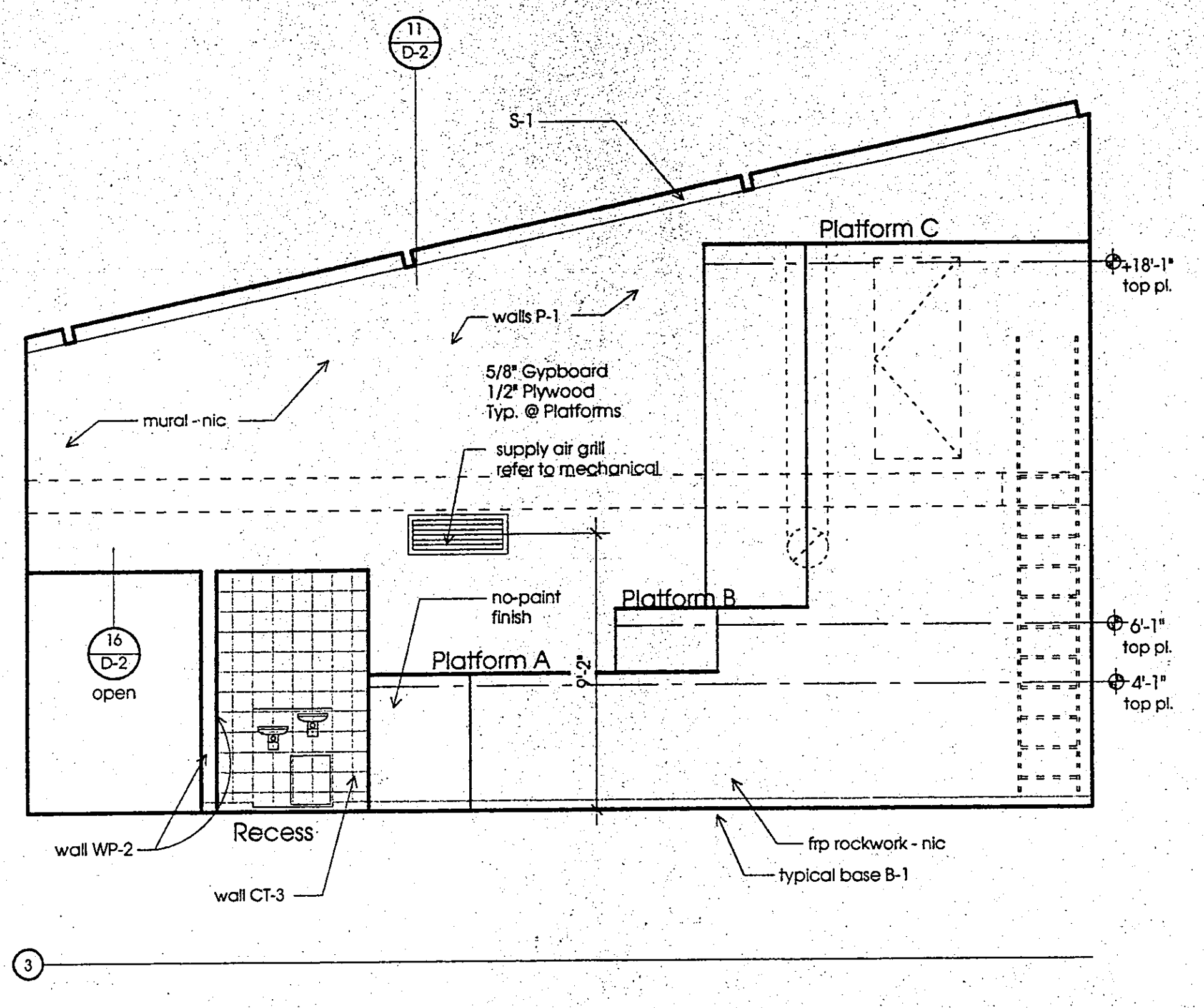
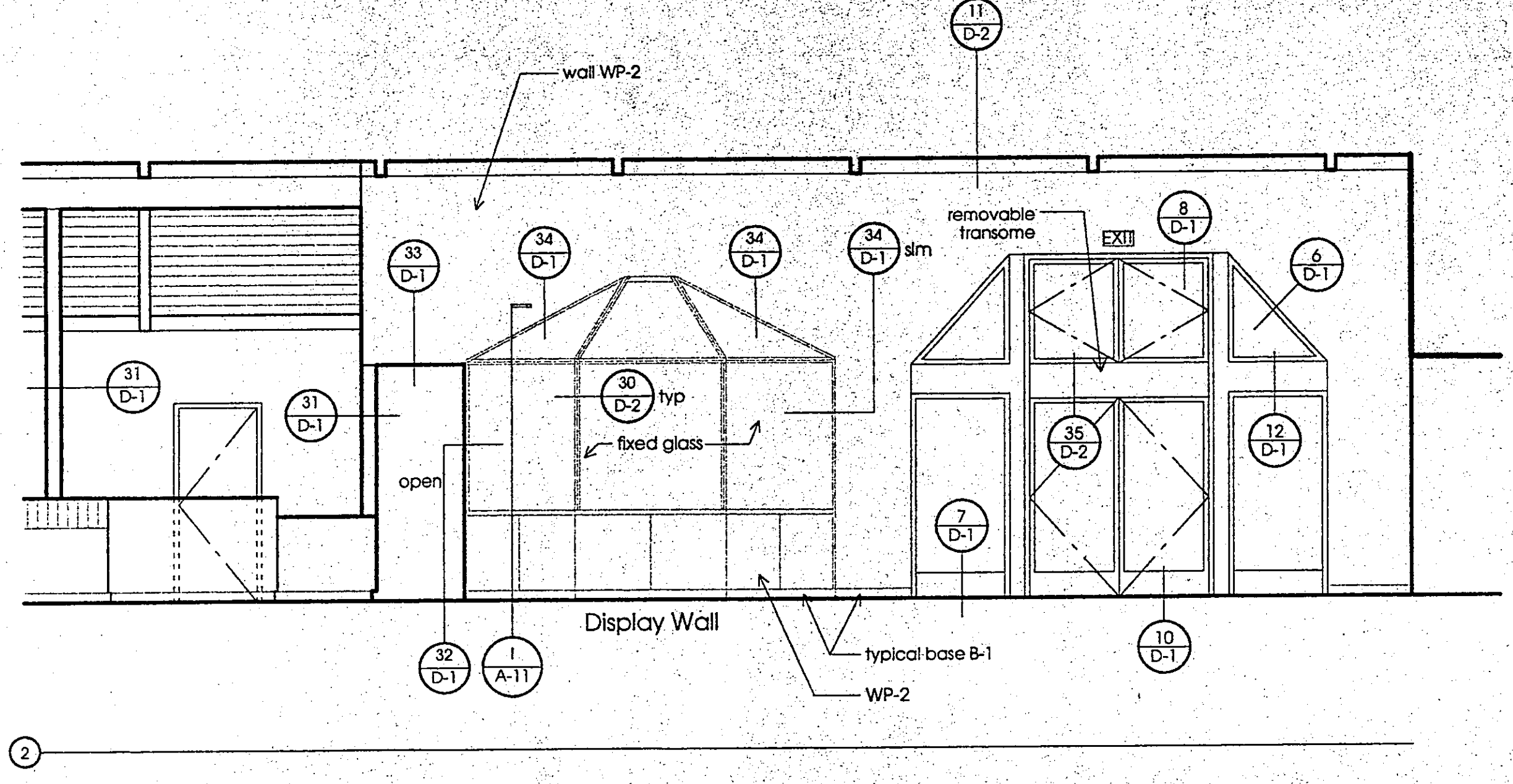
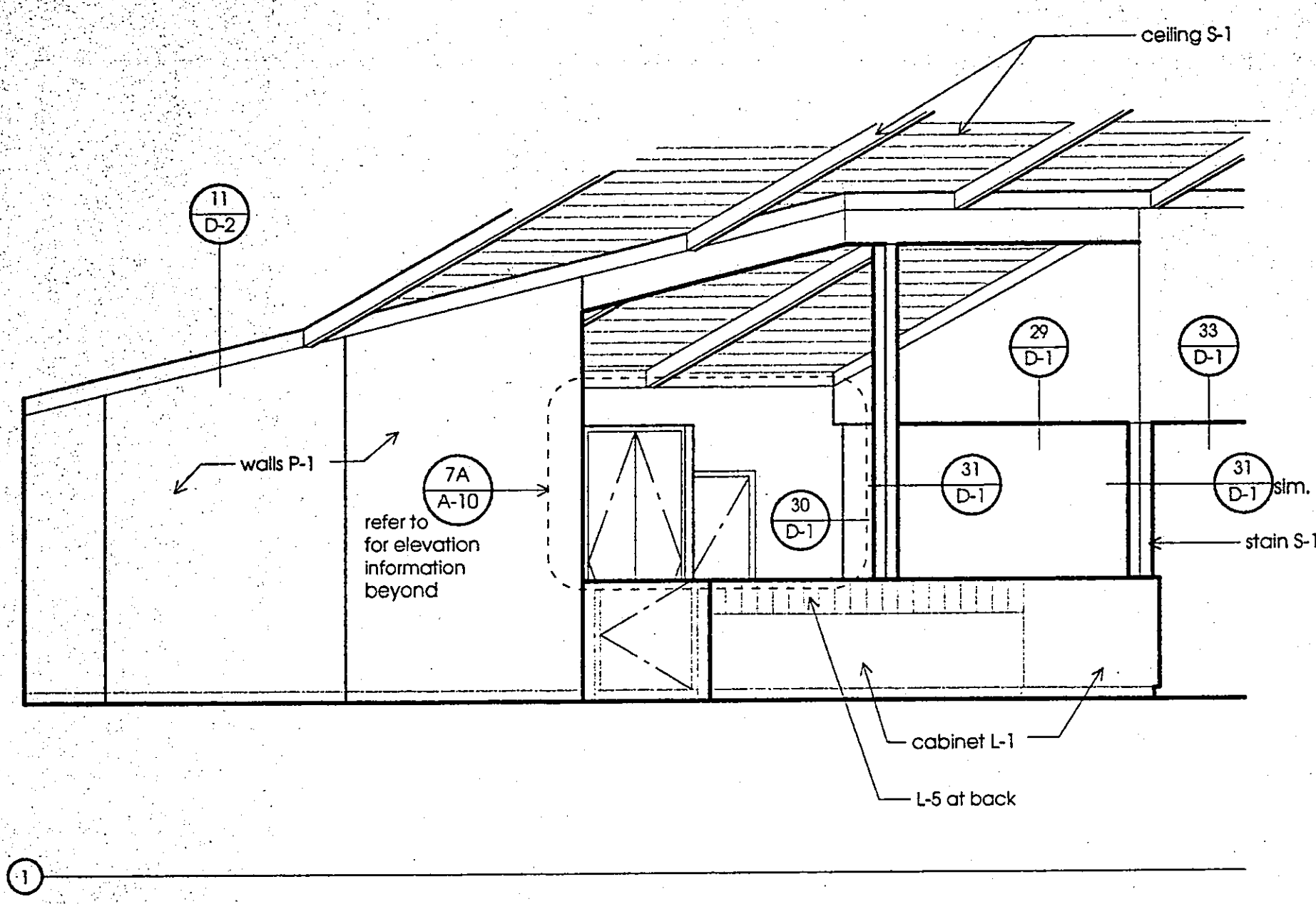
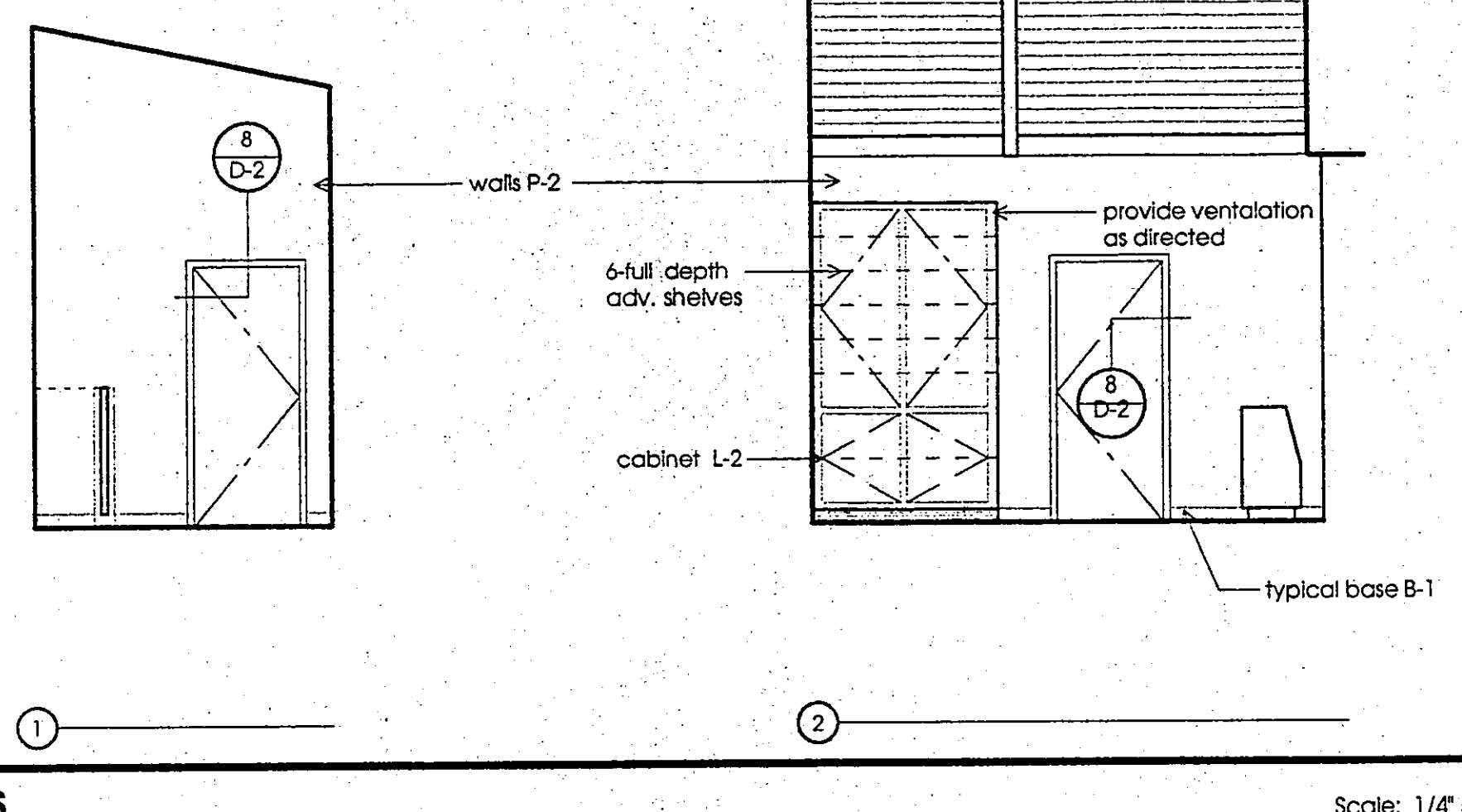
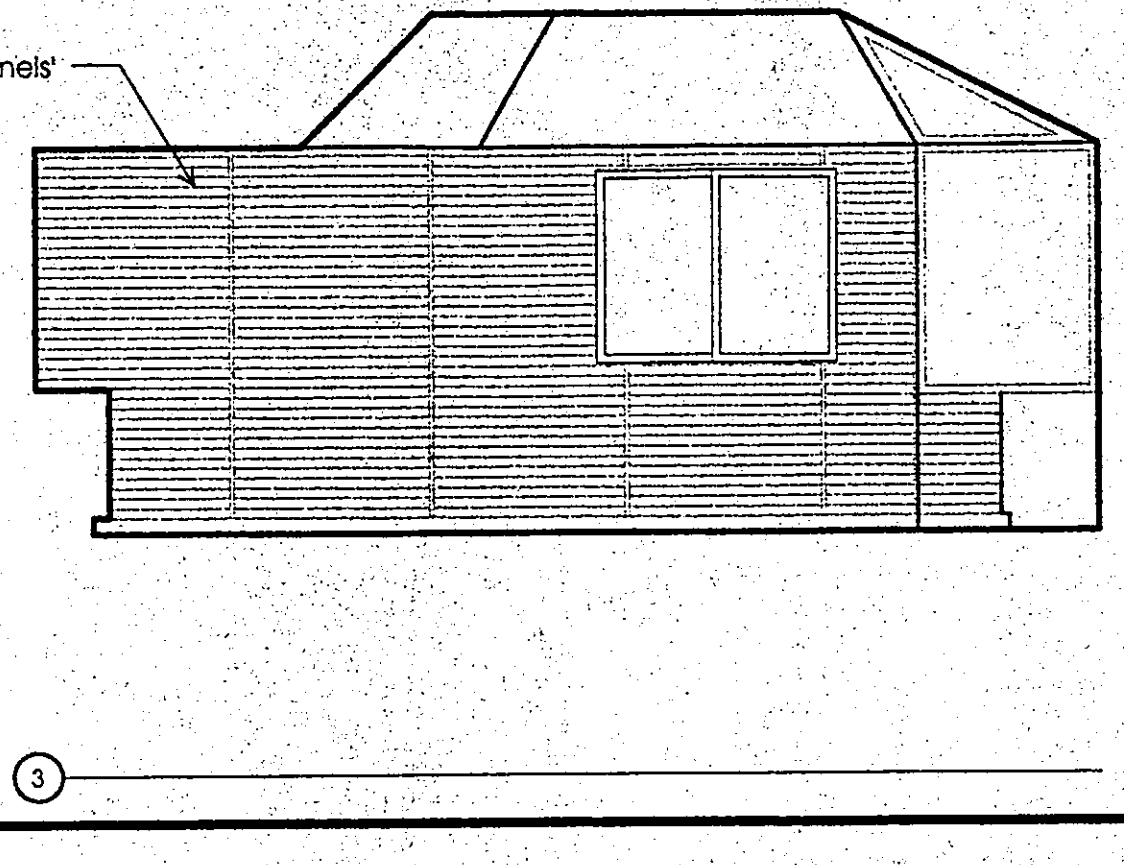
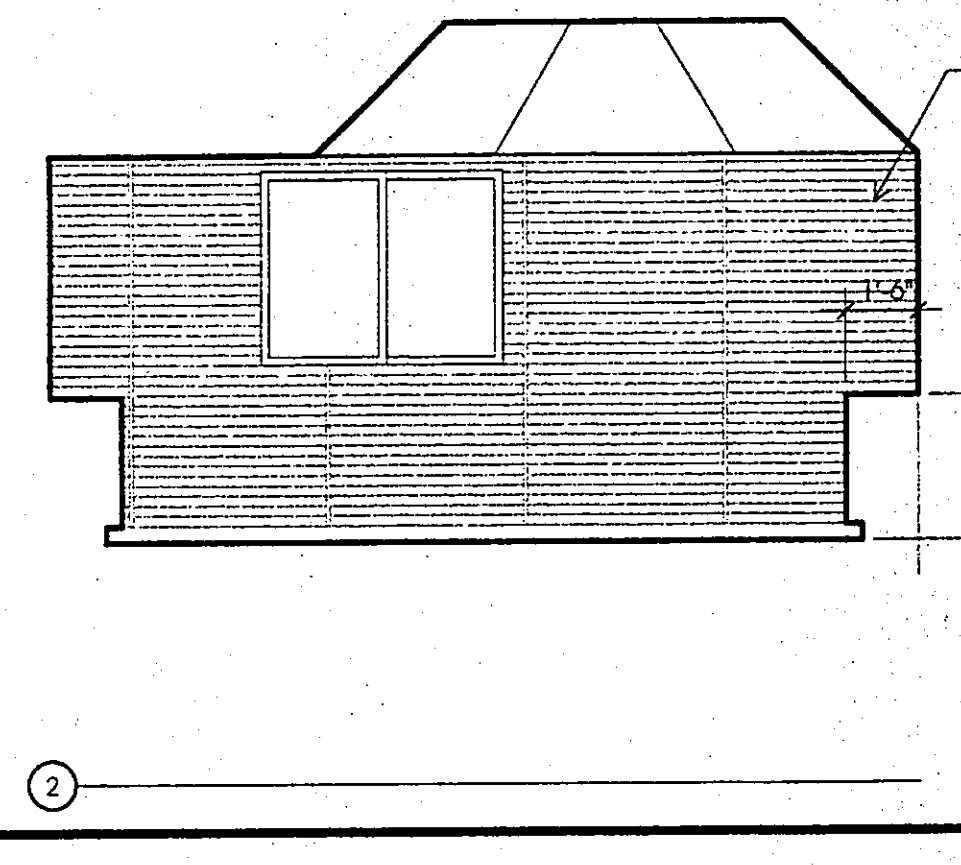
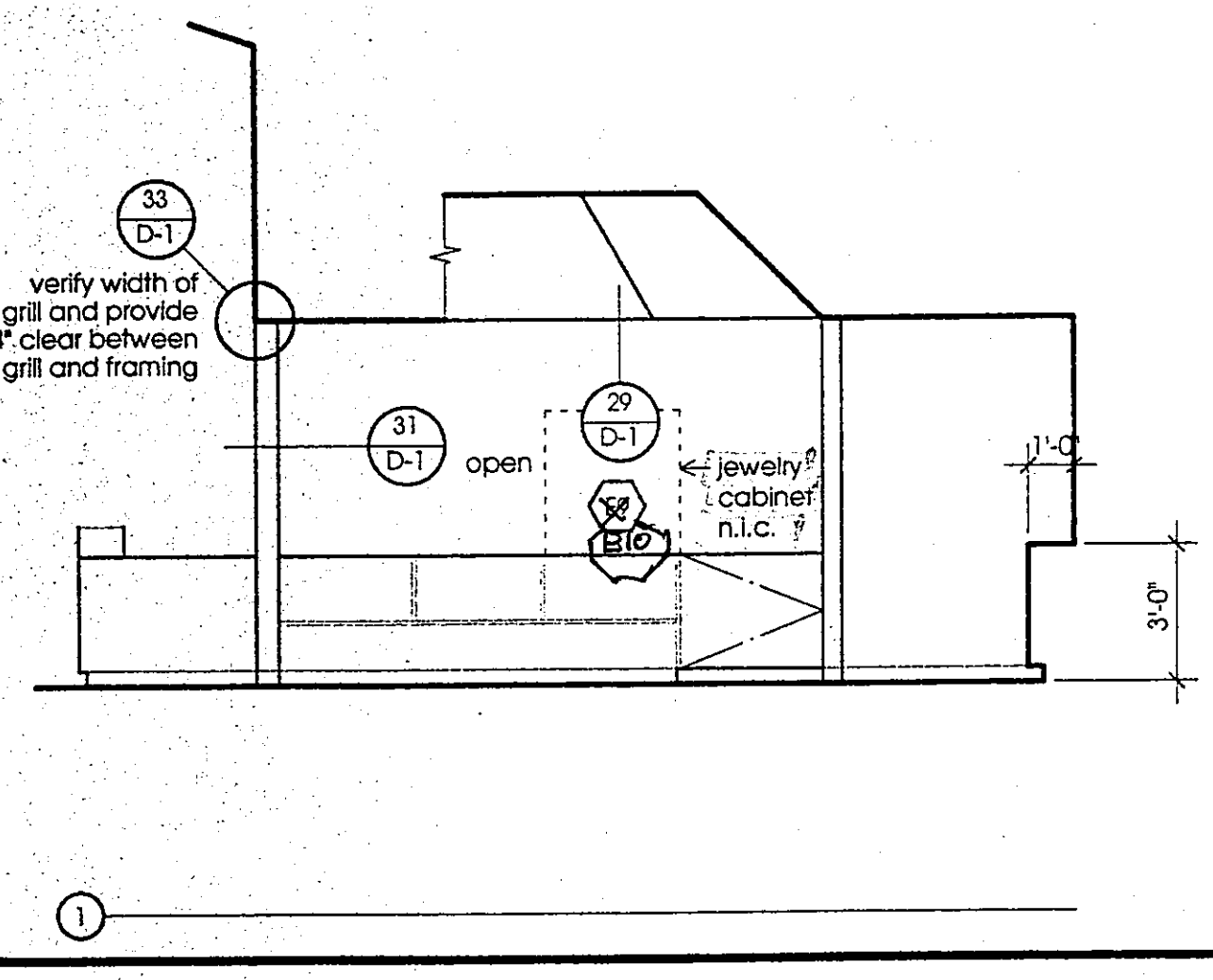


EXHIBIT LOBBY 114

Scale: 1/4" = 1'-0"

A



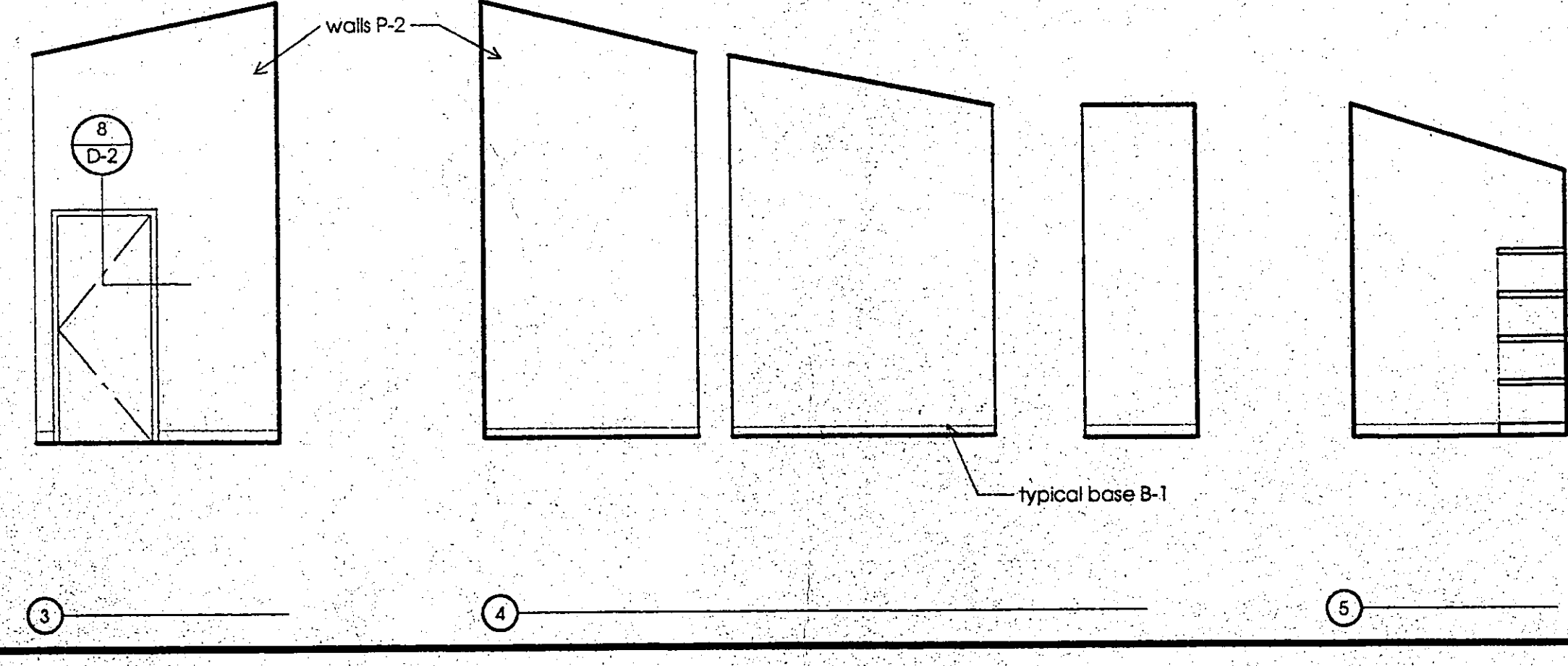
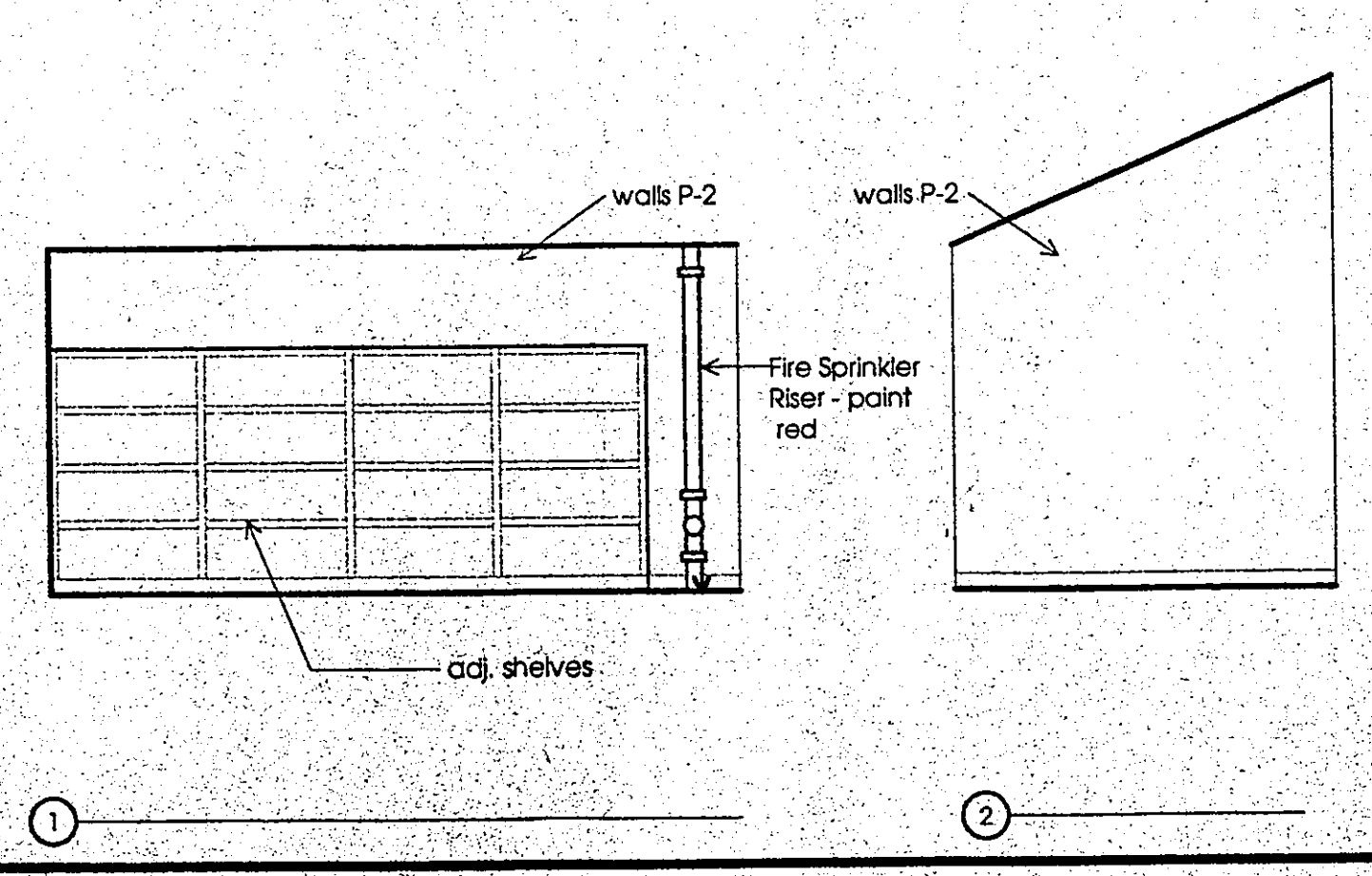
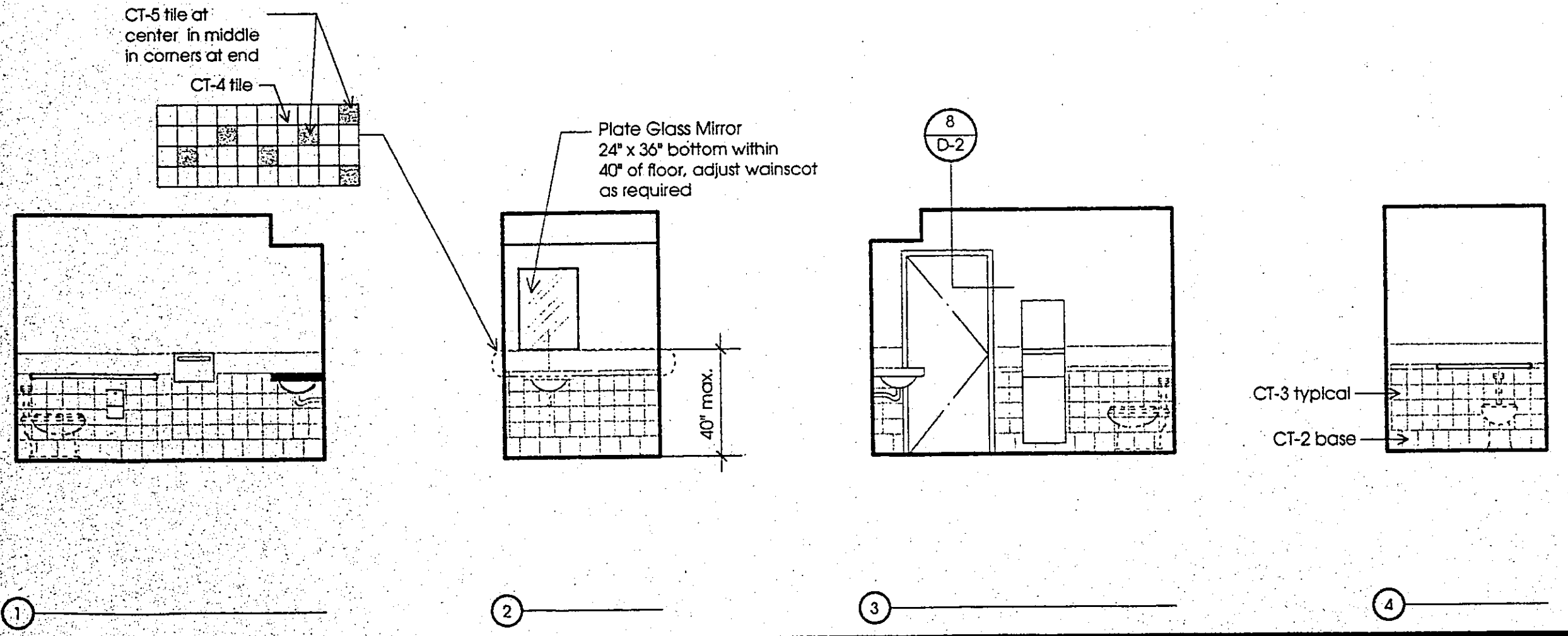
GIFTS 115

Scale: 1/4" = 1'-0"

CONTROL 116

Scale: 1/4" = 1'-0"

C



STAFF RESTROOM 117

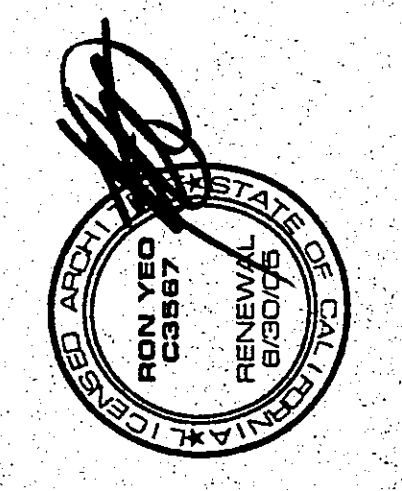
Scale: 1/4" = 1'-0"

STORAGE 118

Scale: 1/4" = 1'-0"

E

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800 MASSACHUSETTS AVENUE, COVINA, CA 91724
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PATRICK MARR, AIA, PE ASSOCIATE ARCHITECT



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POINT VICENTE INTERPRETIVE
CENTER EXPANSION
31501 Palos Verdes Drive West
Rancho Palos Verdes, CA

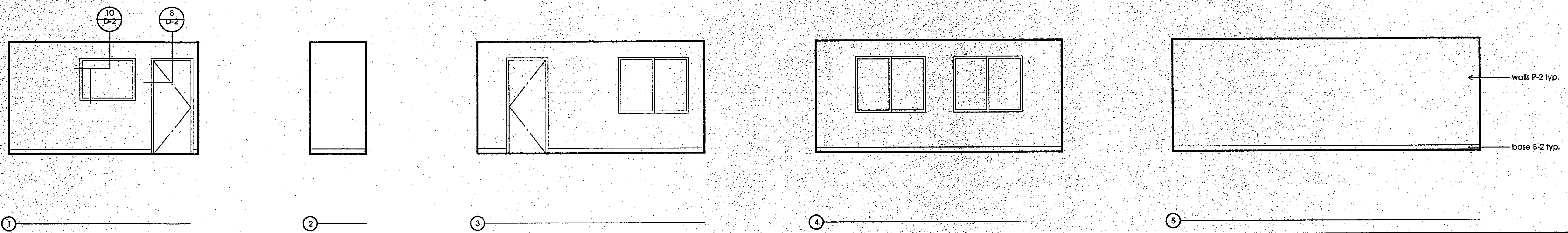
Interior
Elevations

DRAWN
P/M/MG
CHECKED
RY
DATE
2/1/09
SCALE
(as noted)
JOB NO.
95-120
SHEET

A-10
23 OF 69 SHEETS

These drawings do not contain the information necessary for construction safety.

1/2" = 1'-0" (vertical text on the left margin)



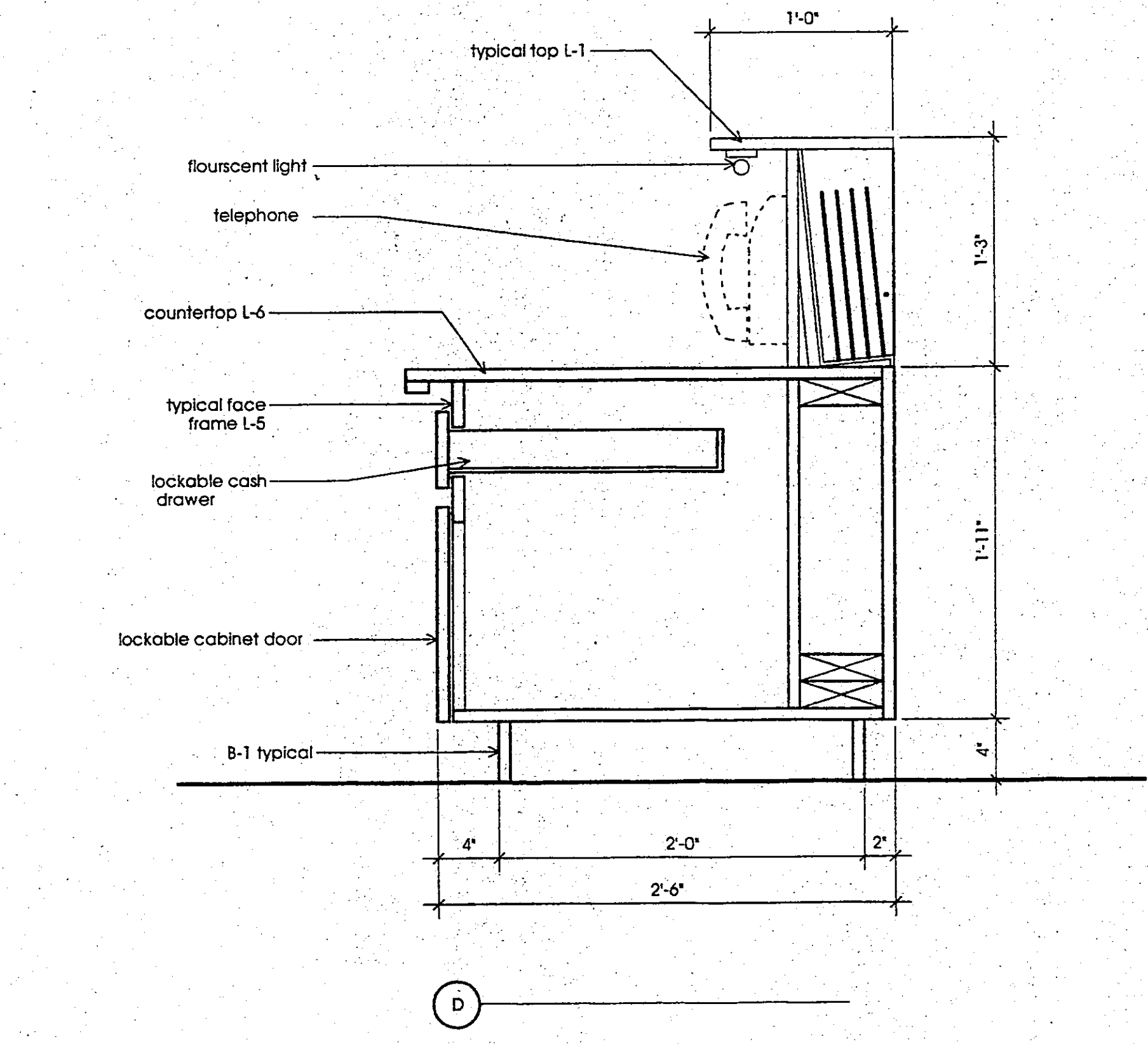
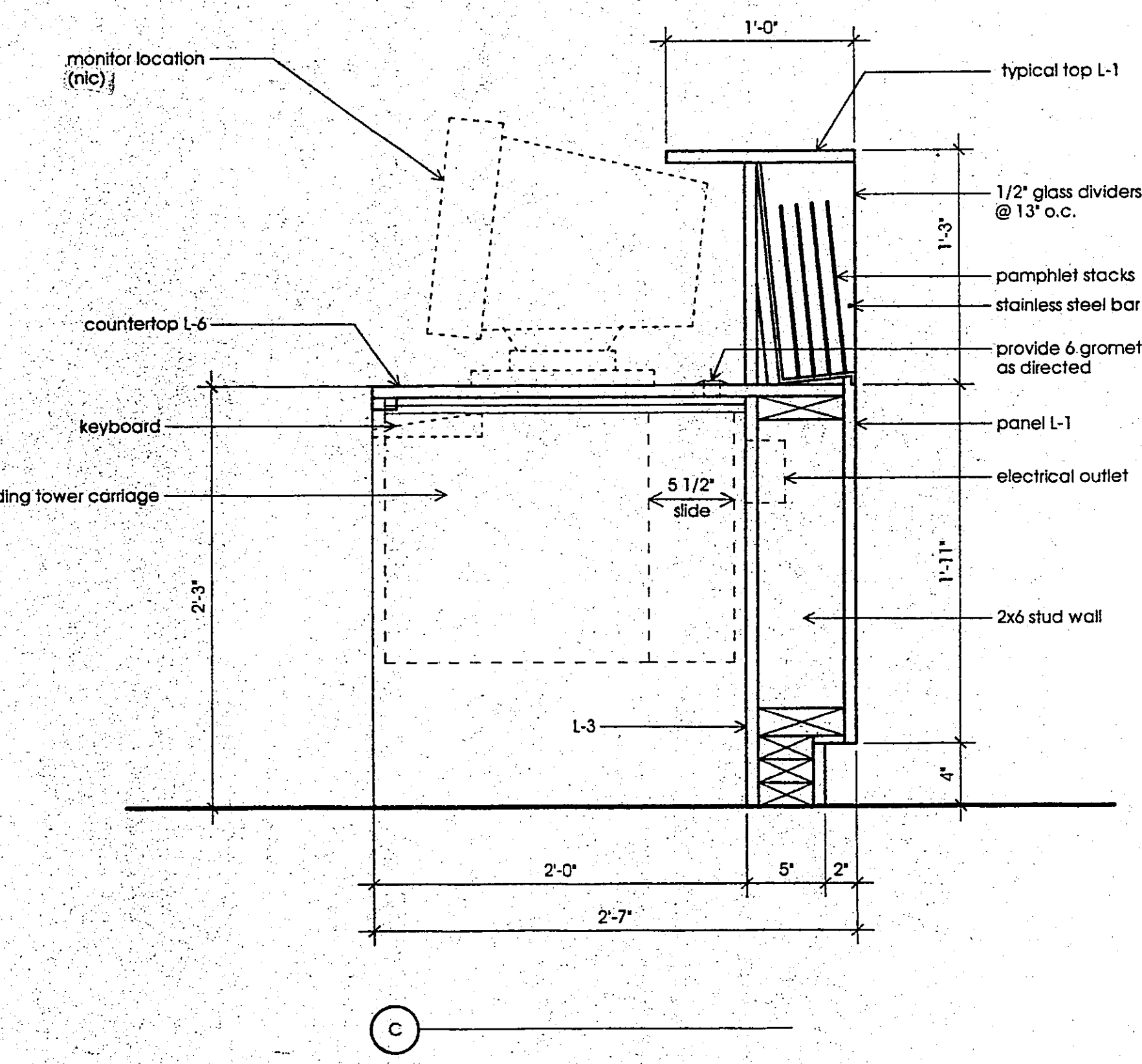
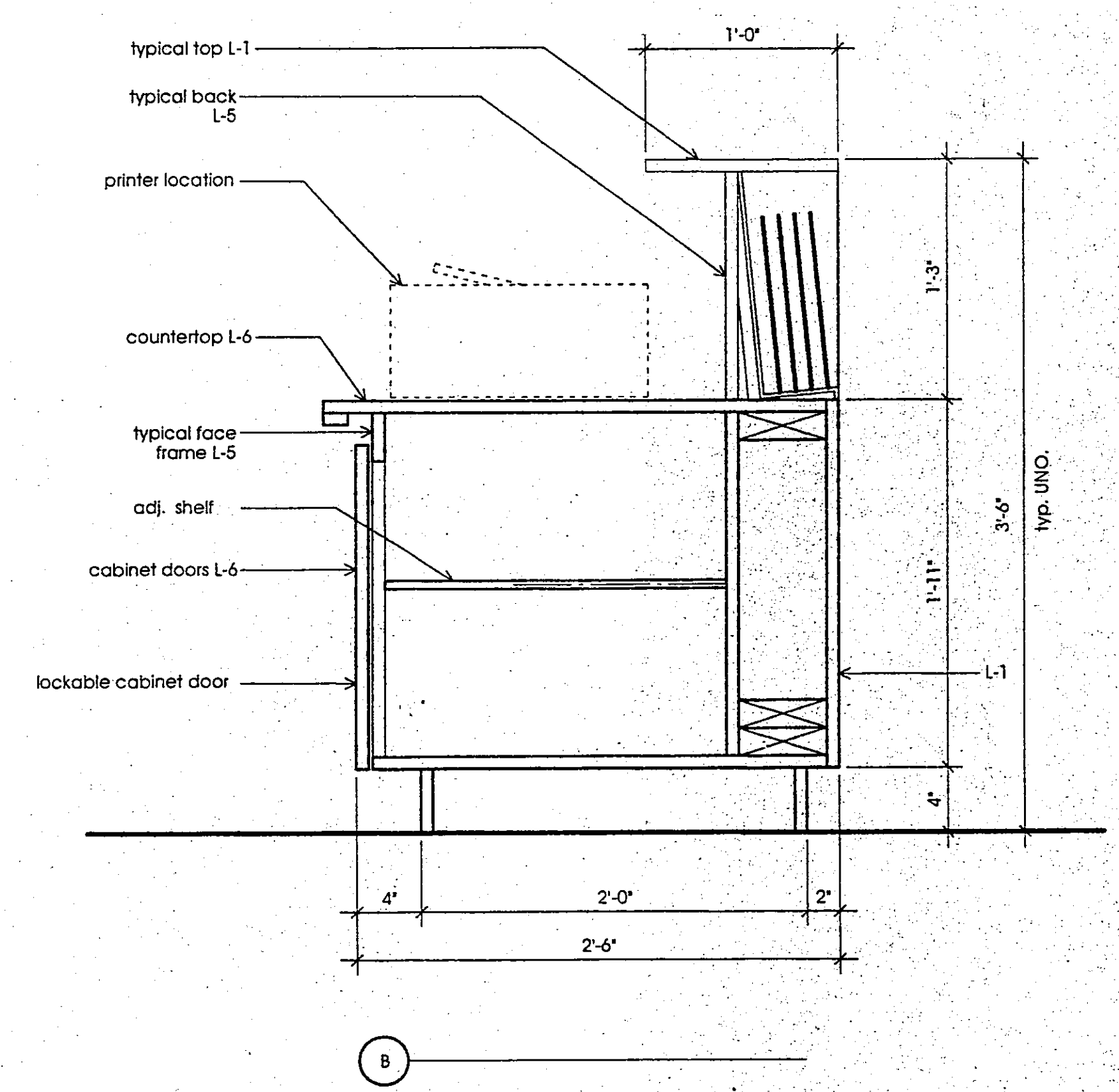
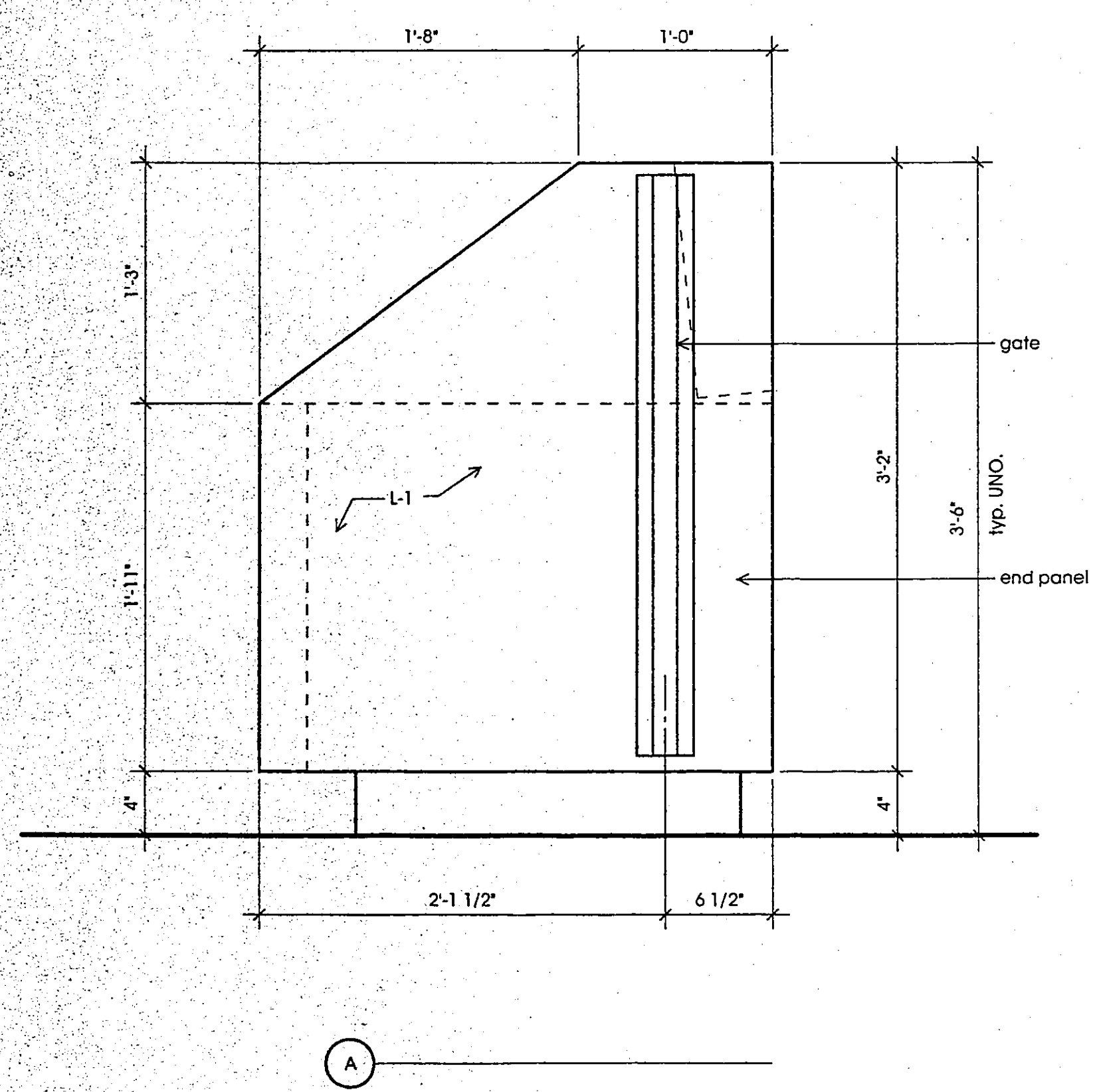
OFFICE 119

Scale: 1/4" = 1'-0"

A DETAIL TITLE

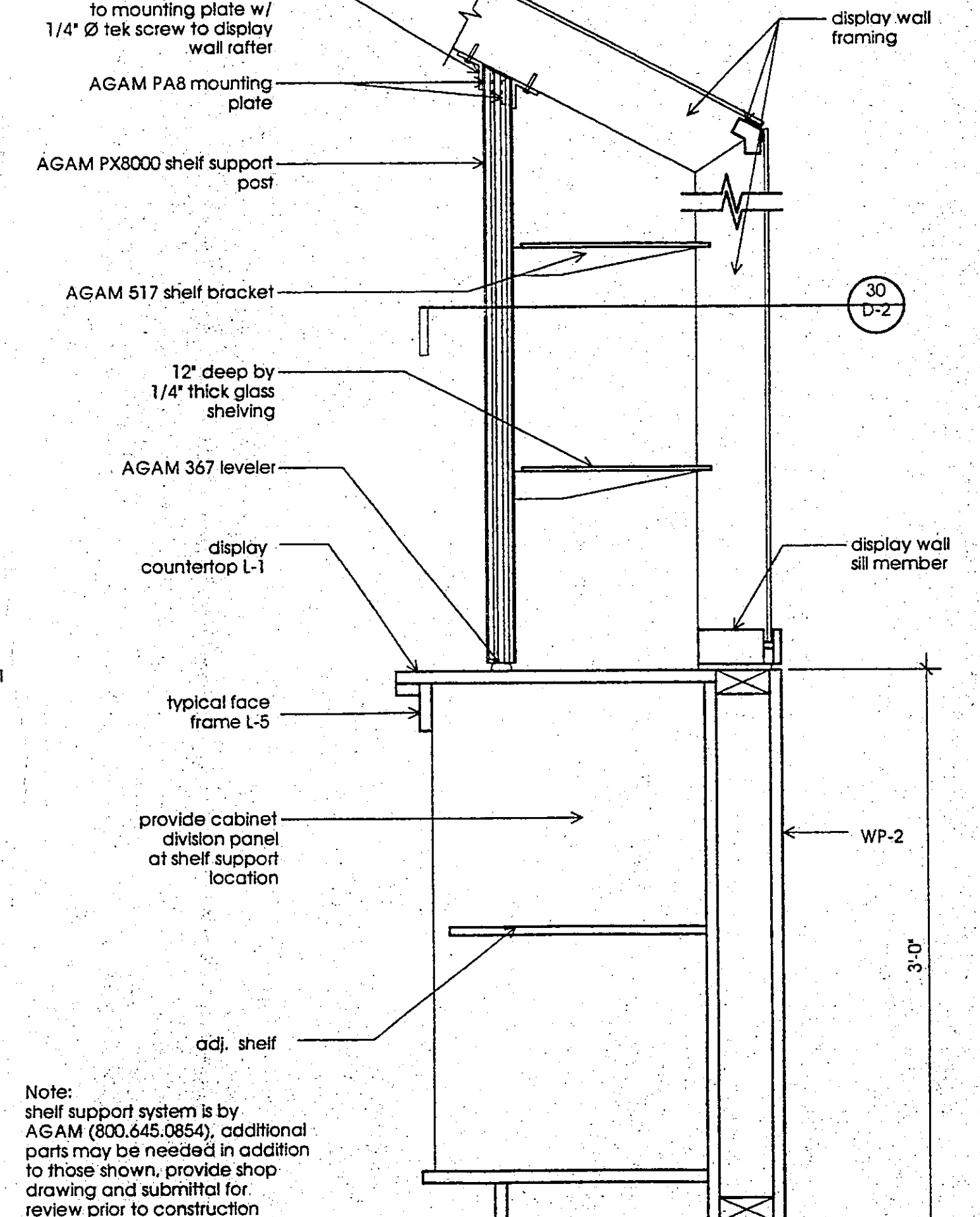
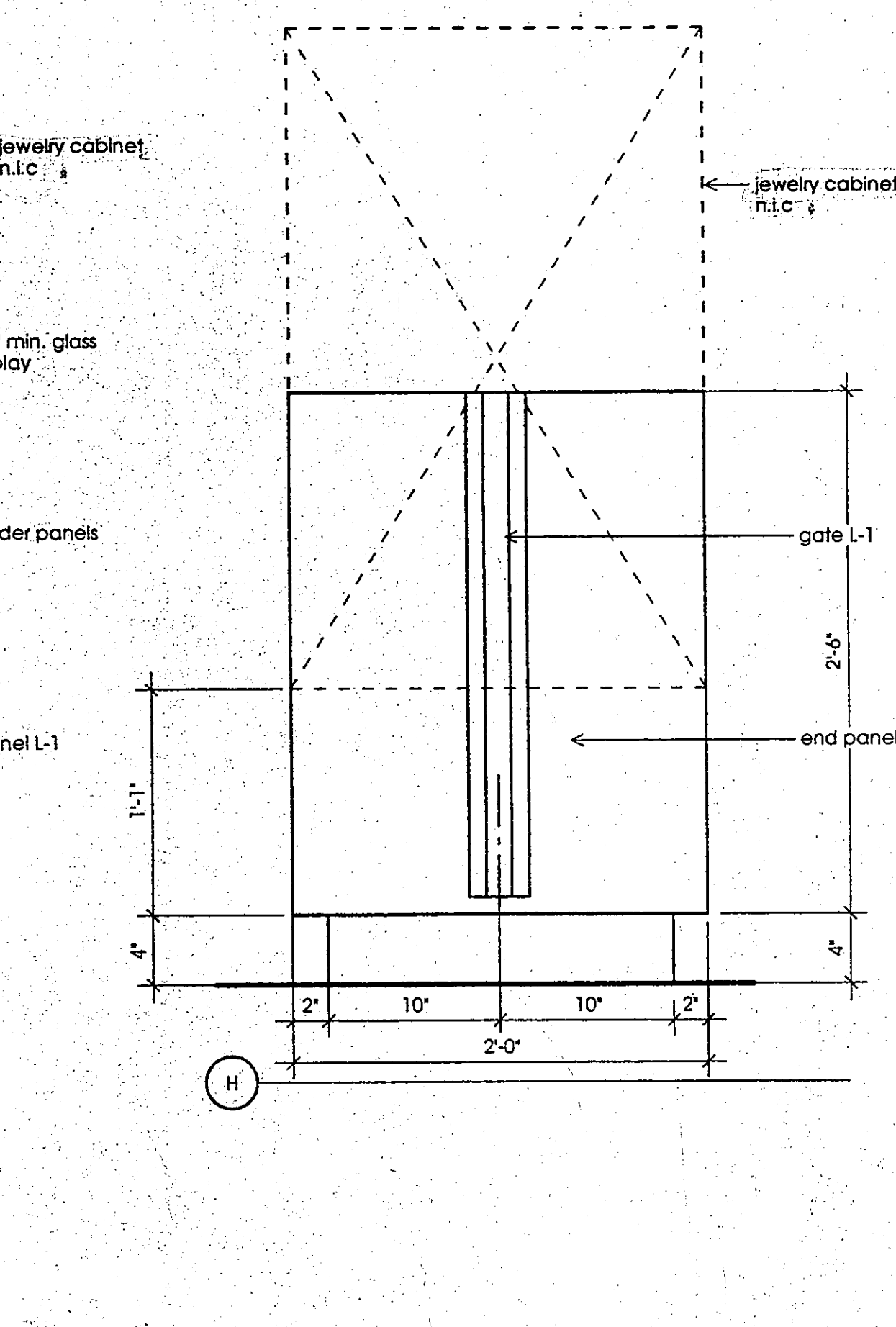
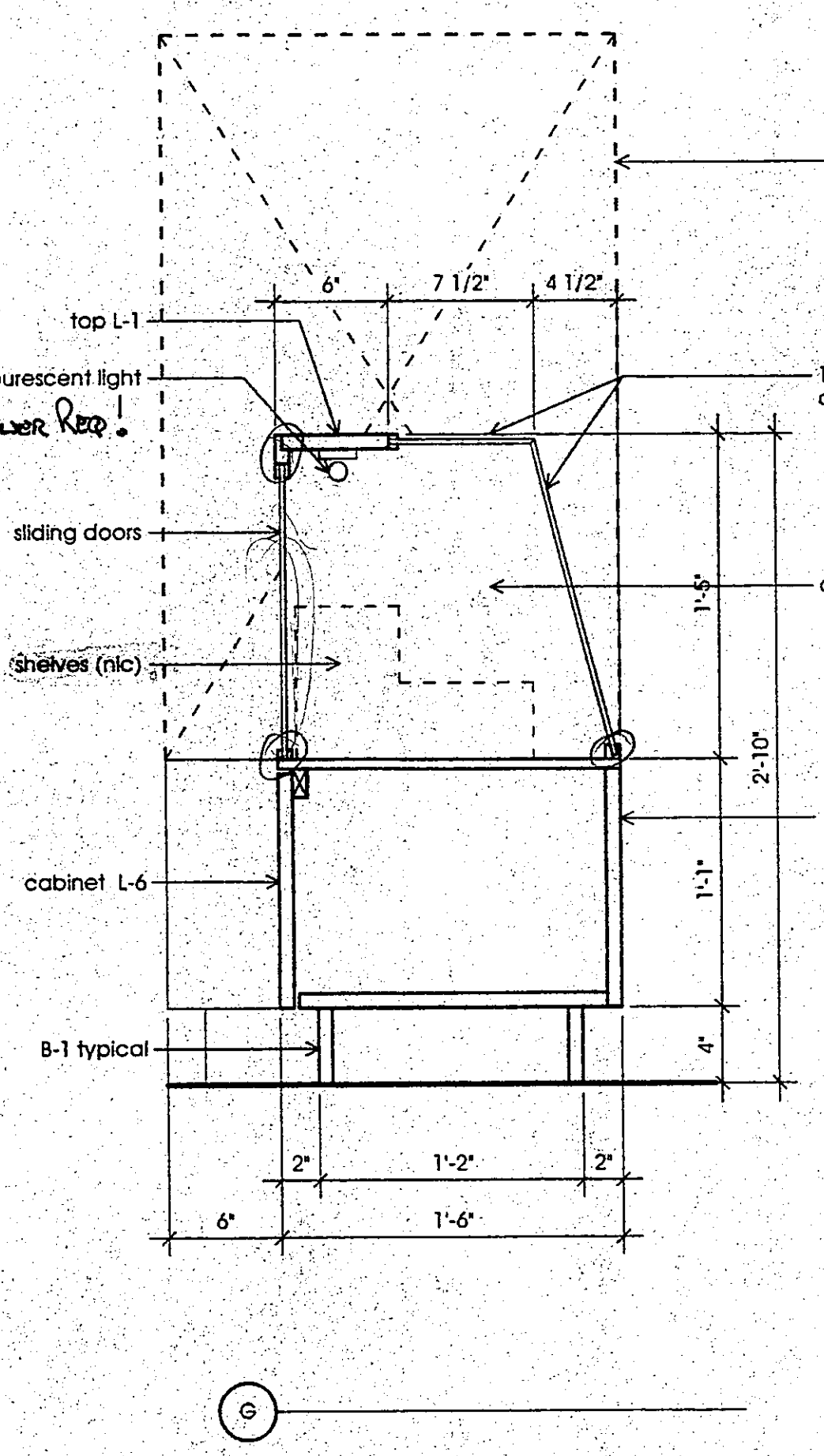
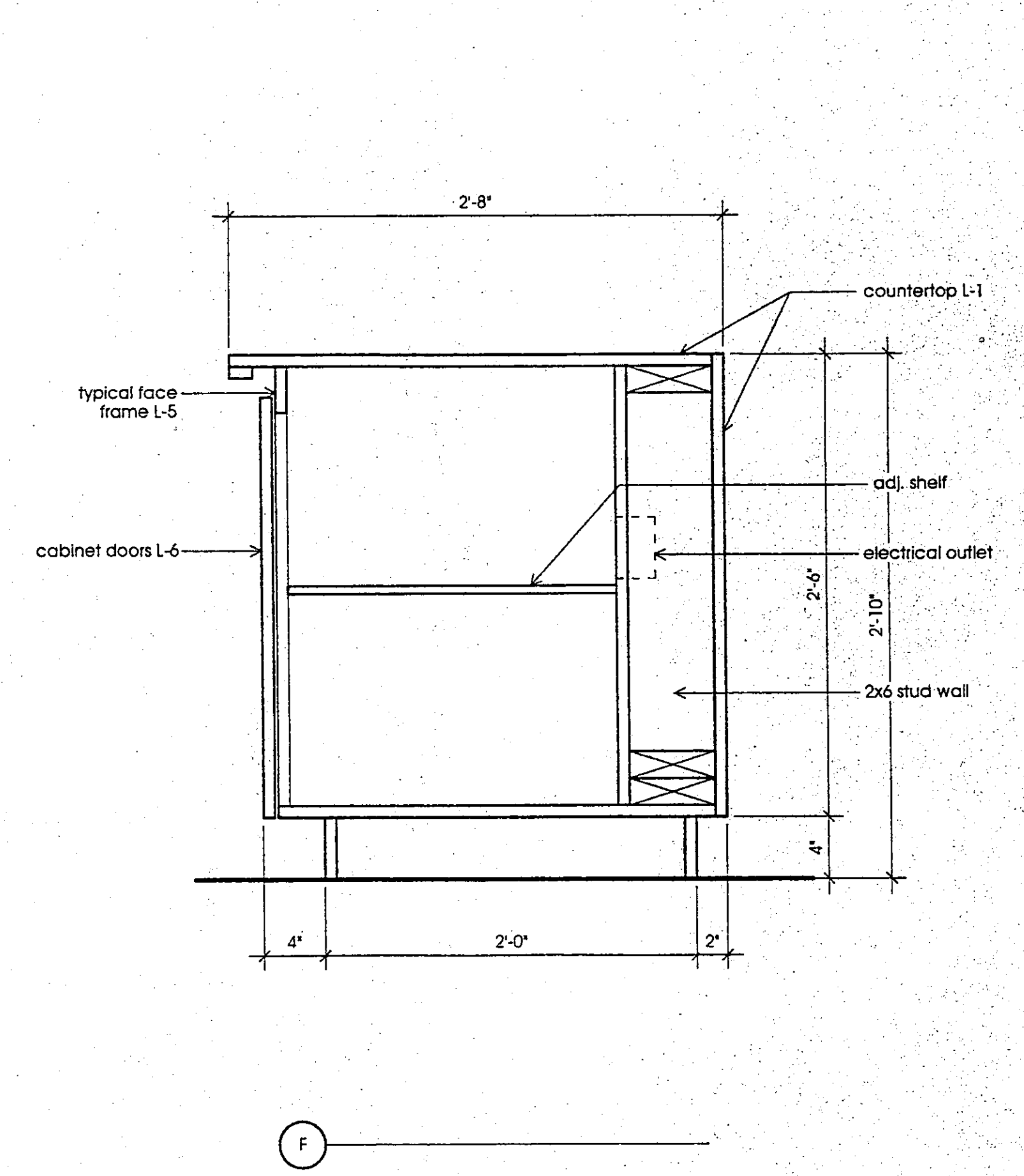
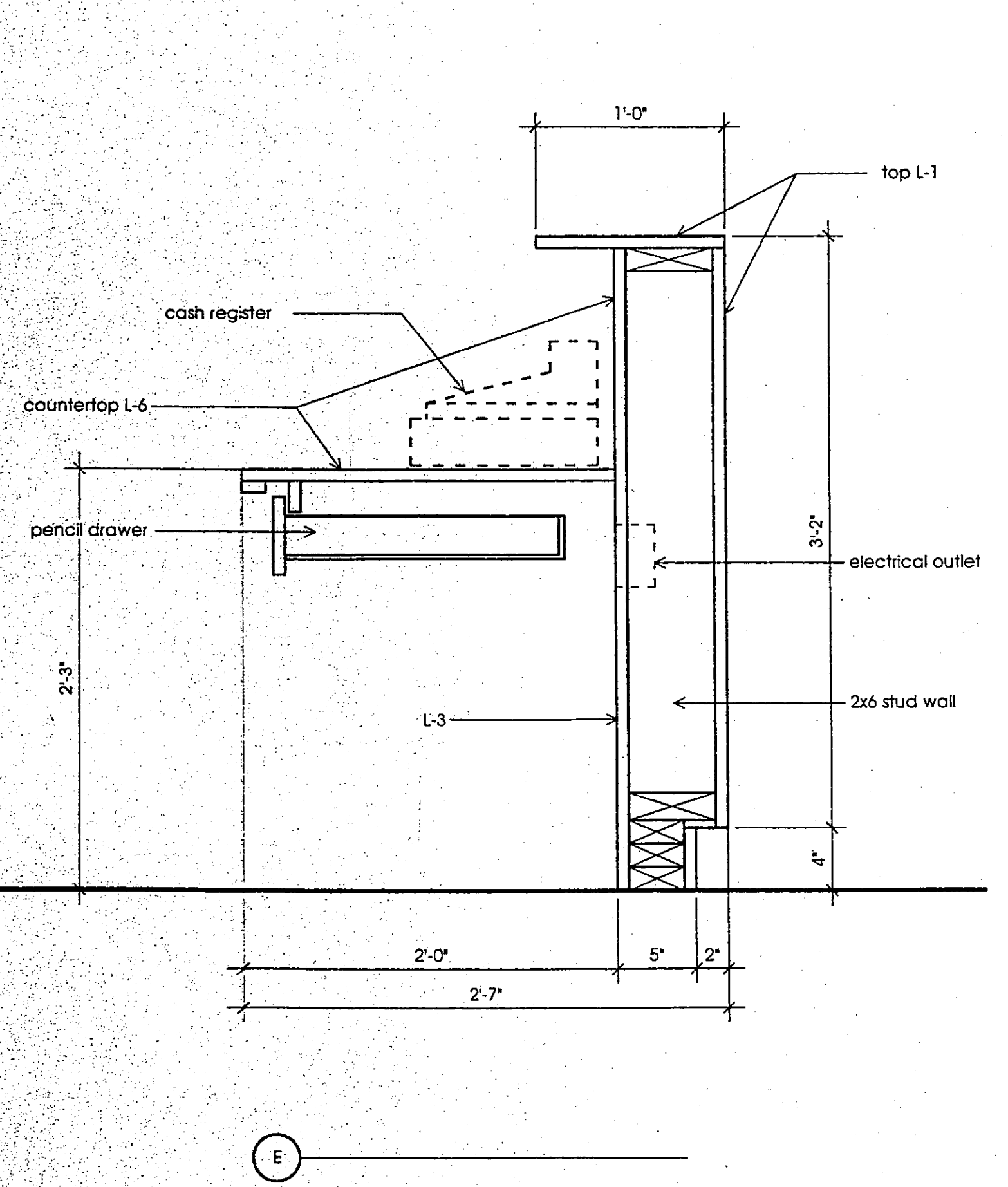
Scale: 1 1/2" = 1'-0"

7



CABINET SECTIONS

Scale: 1 1/2" = 1'-0"



Note: shelf support system is by AGAM (800.645.0854), additional parts may be needed in addition to those shown, provide shop drawing and submittal for review prior to construction

CABINET SECTIONS

Scale: 1 1/2" = 1'-0"

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POINT VICENTE INTERPRETIVE
CENTER EXPANSION
3150 Palms Verde Drive West
Rancho Palms Verde, CA

Interior
Elevations/
Cabinet
Sections

DRAWN
RM/MS
CHECKED
RY
DATE
2/1/99
SCALE
(as noted)
JOB NO.
95-120
SHEET

A-11
24 OF 61 SHEETS



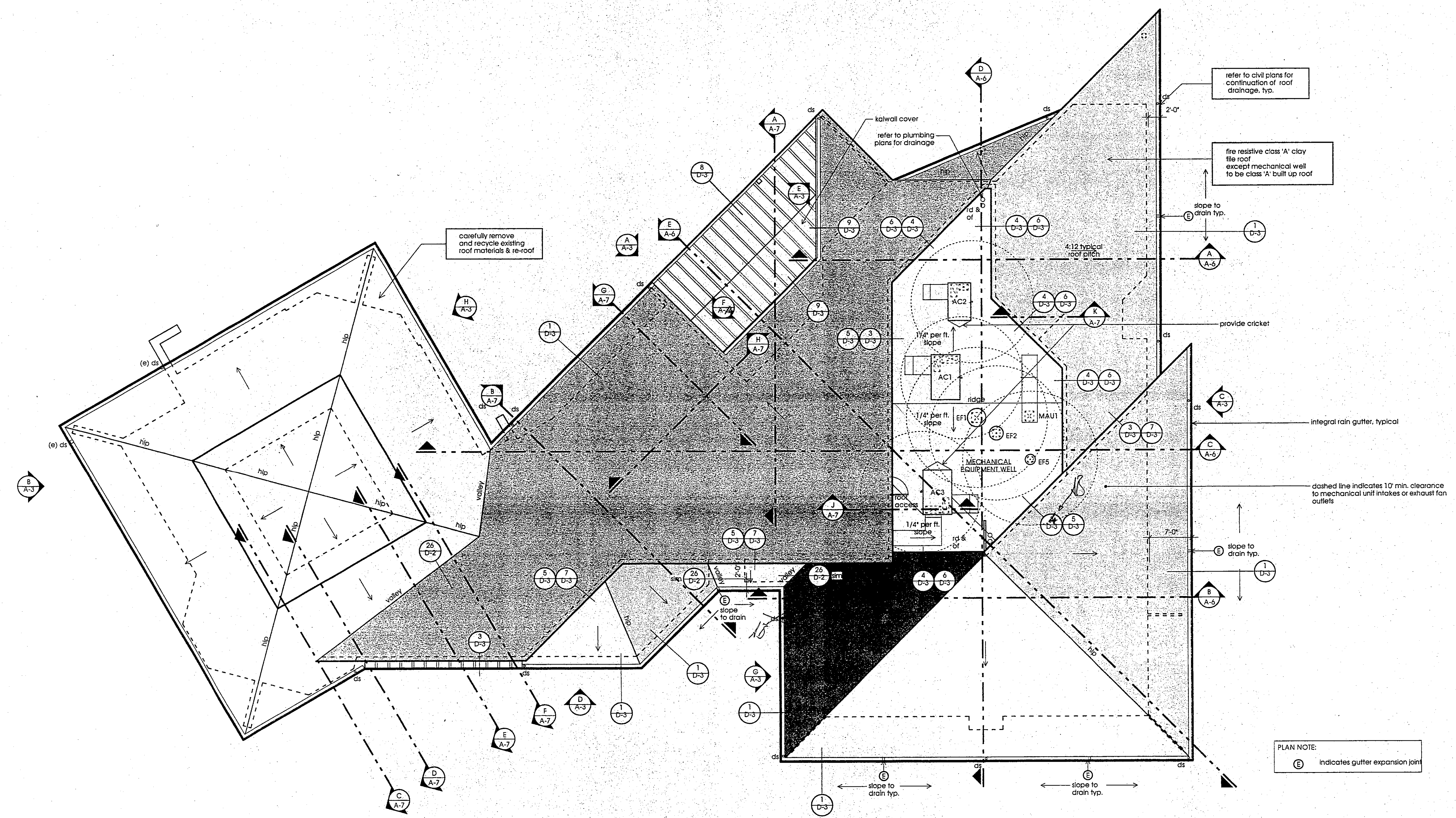
12/23/03 update revisions

**POINT VICENTE INTERPRETIVE
 CENTER EXPANSION**
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

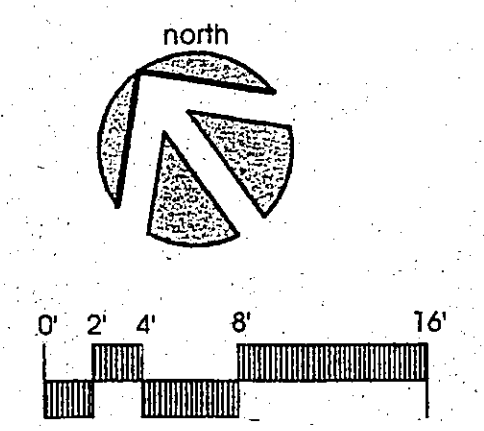
Roof Plan

DRAWN	PM/MG
CHECKED	RY
DATE	2/1/99
SCALE	1/8" = 1'-0"
JOB. NO.	95-120
SHEET	

A-12



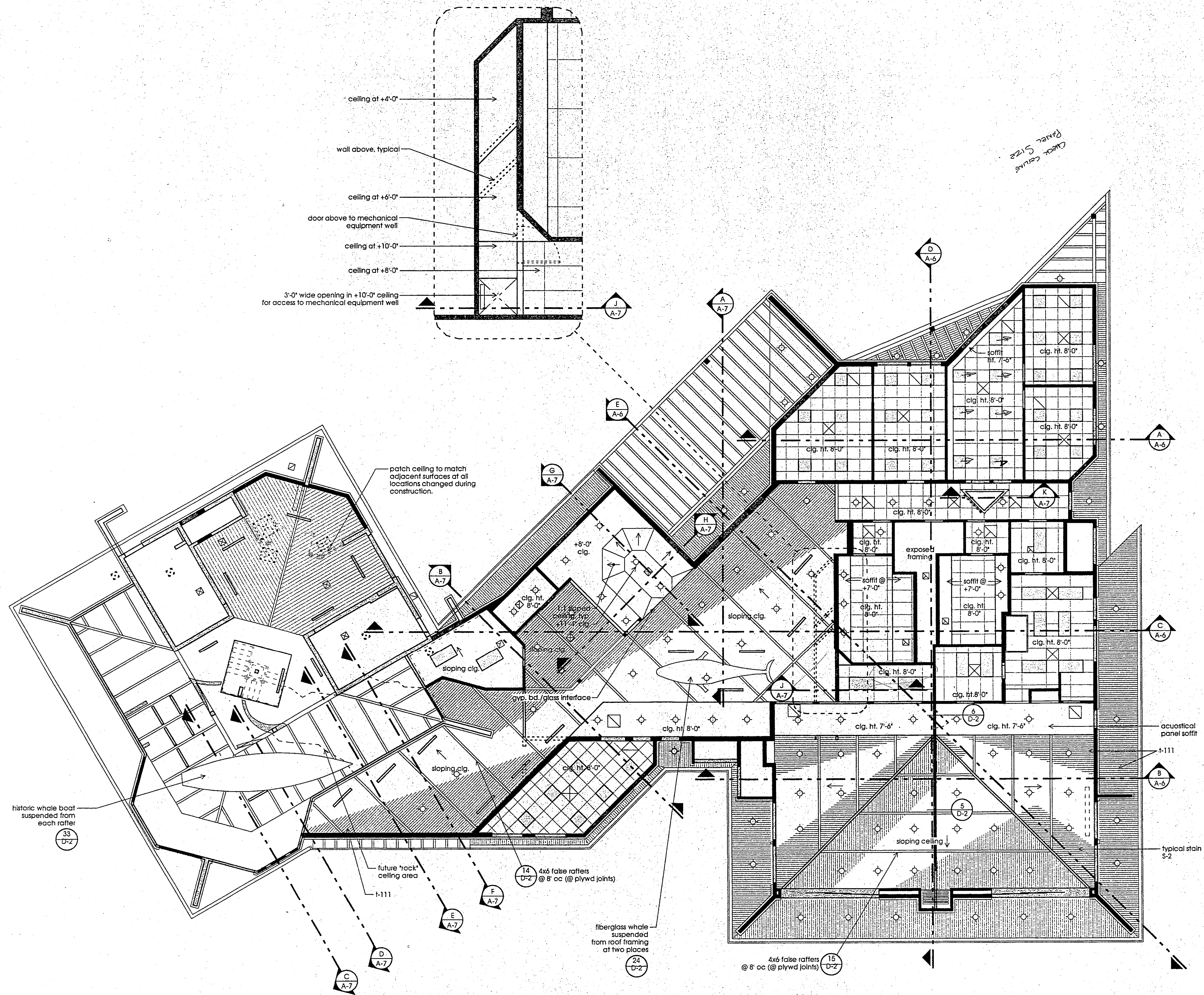
PLAN NOTE:
 (E) indicates gutter expansion joint



Plans are not to be changed or copied in any way without the written permission and consent of Ron Yeo, Architect.

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**PARTIAL REFLECTED CEILING PLAN
AT CHAIR & TABLE STORAGE 101**
1/4" = 1'-0"



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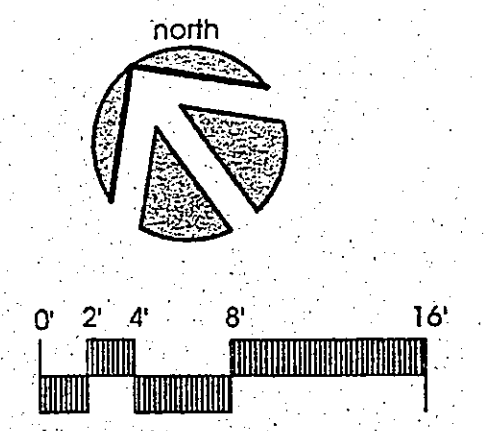
12/23/03 update revisions

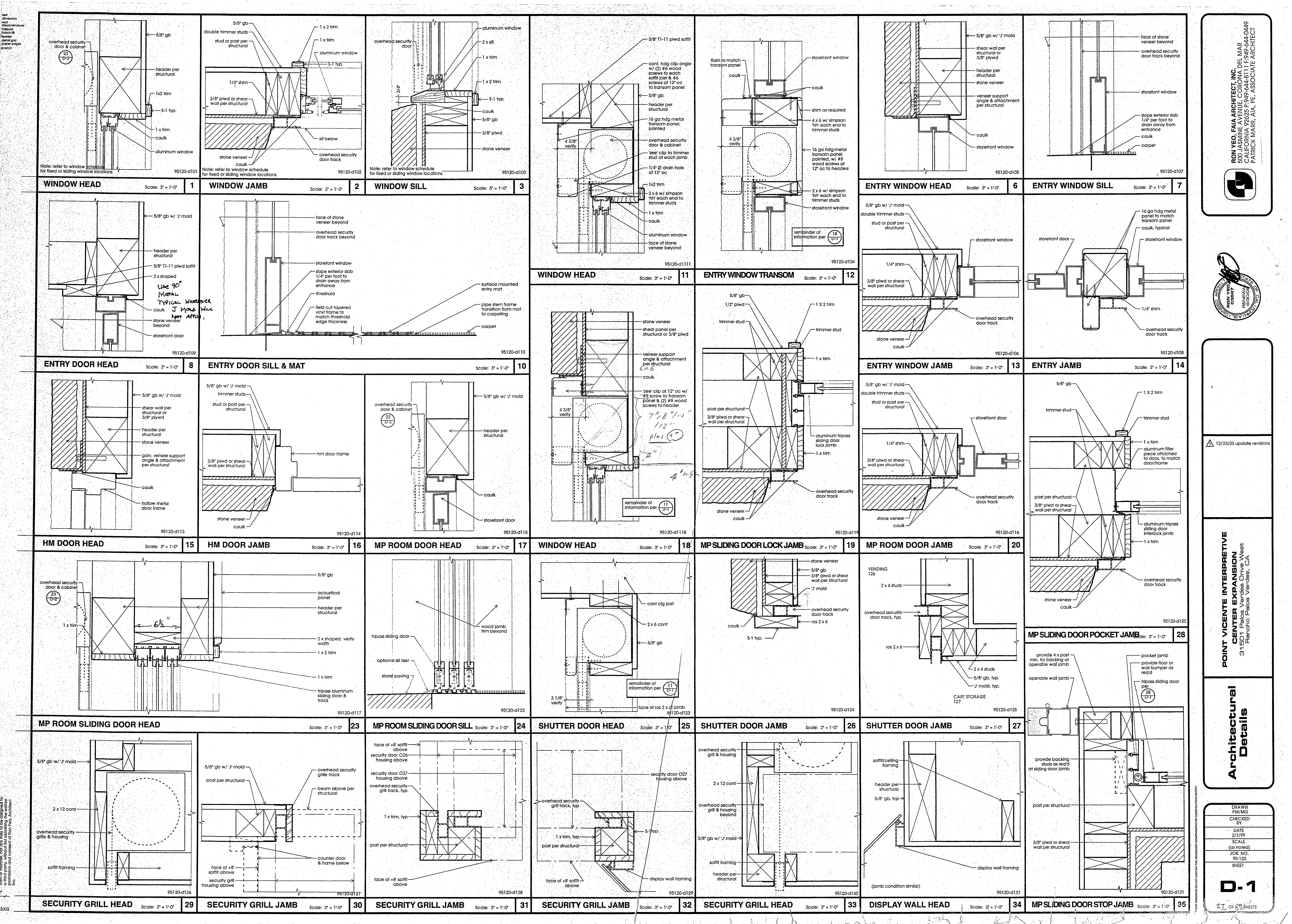
**POINT VICENTE INTERPRETIVE
CENTER EXPANSION**
31501 Palms Verdes Drive West
Palo Verde, CA

**Reflected
Ceiling Plan**

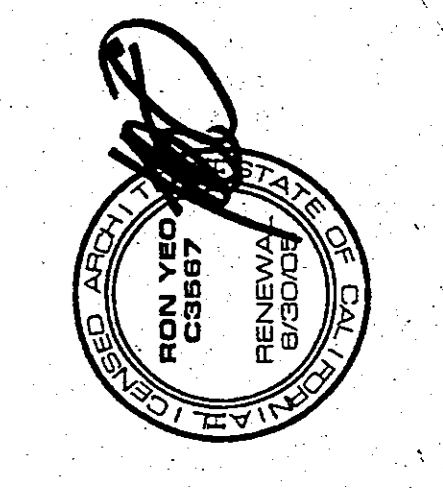
DRAWN
BY
CHECKED
BY
DATE
2/1/99
SCALE
1/8" = 1'-0"
JOB NO.
95-120
SHEET

A-13
26 OF 69 SHEETS





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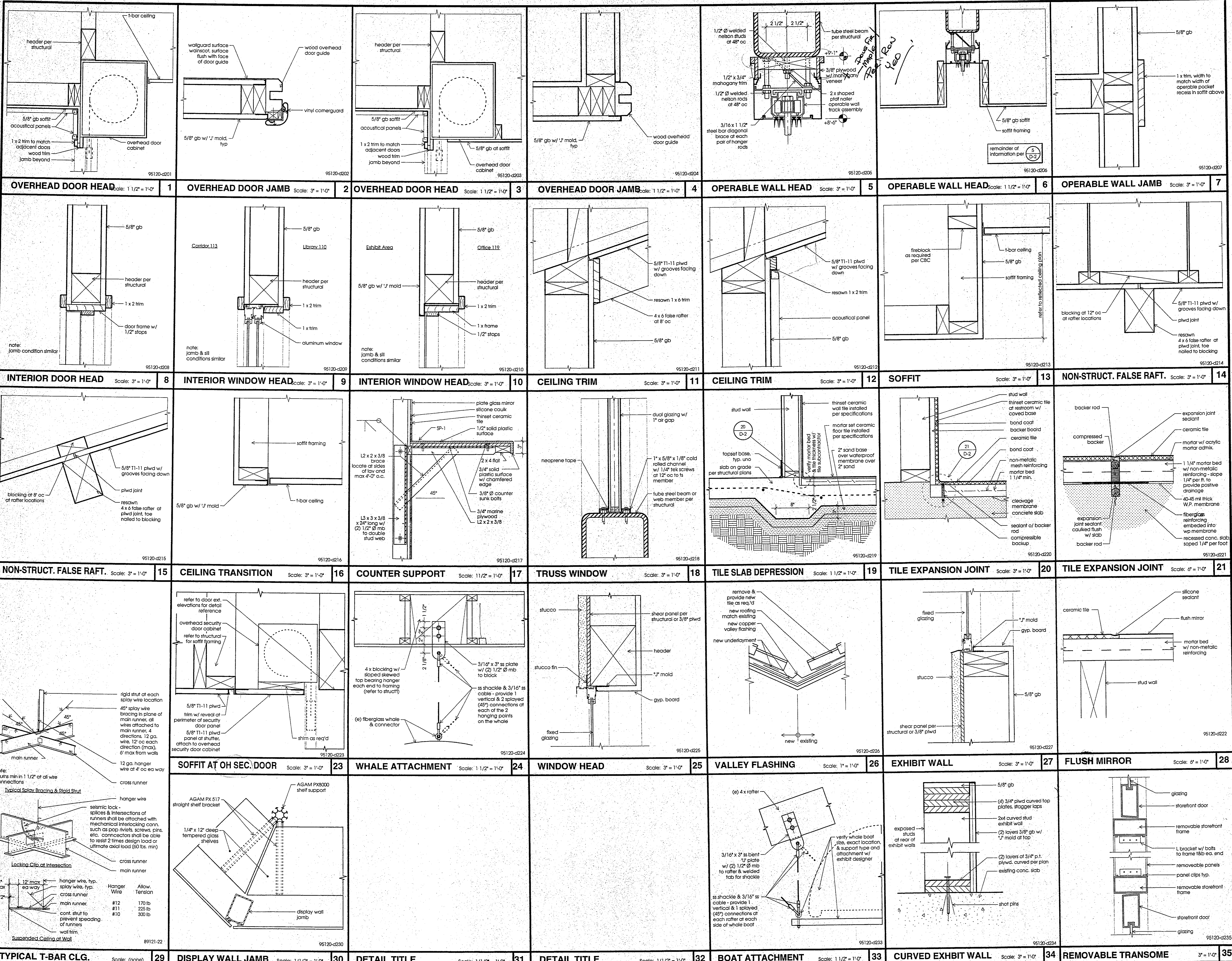
POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palms Vendes Drive West
 Rancho Palms Vendes, CA

Architectural Details

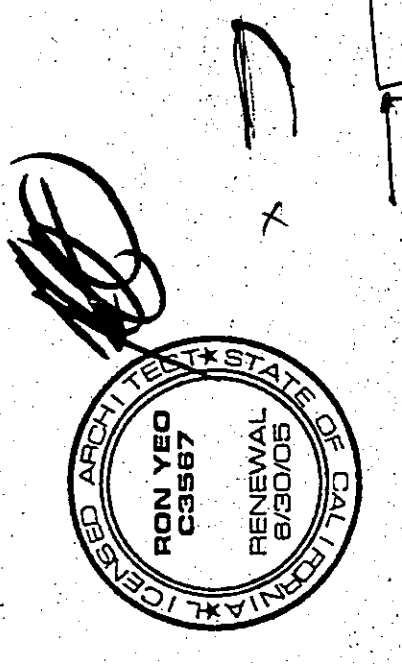
DRAWN PH/M/G
 CHECKED RY
 DATE 2/1/99
 SCALE (as noted)
 JOB NO. 95-120
 SHEET

D-1
 27 OF 63 SHEETS

1. head dimension
2. door/window
3. miter
4. header
5. border
6. jamb
7. door edge
8. door edge
9. door edge
10. door edge



RON YEO, FAIA ARCHITECT, INC.
3015 AVENUE 202, SUITE 200, PALM BEACH, FL 33480
TEL: 561-833-4444 FAX: 561-833-4449
PATRICK WARR, AIA, PE, ASSOCIATE ARCHITECT



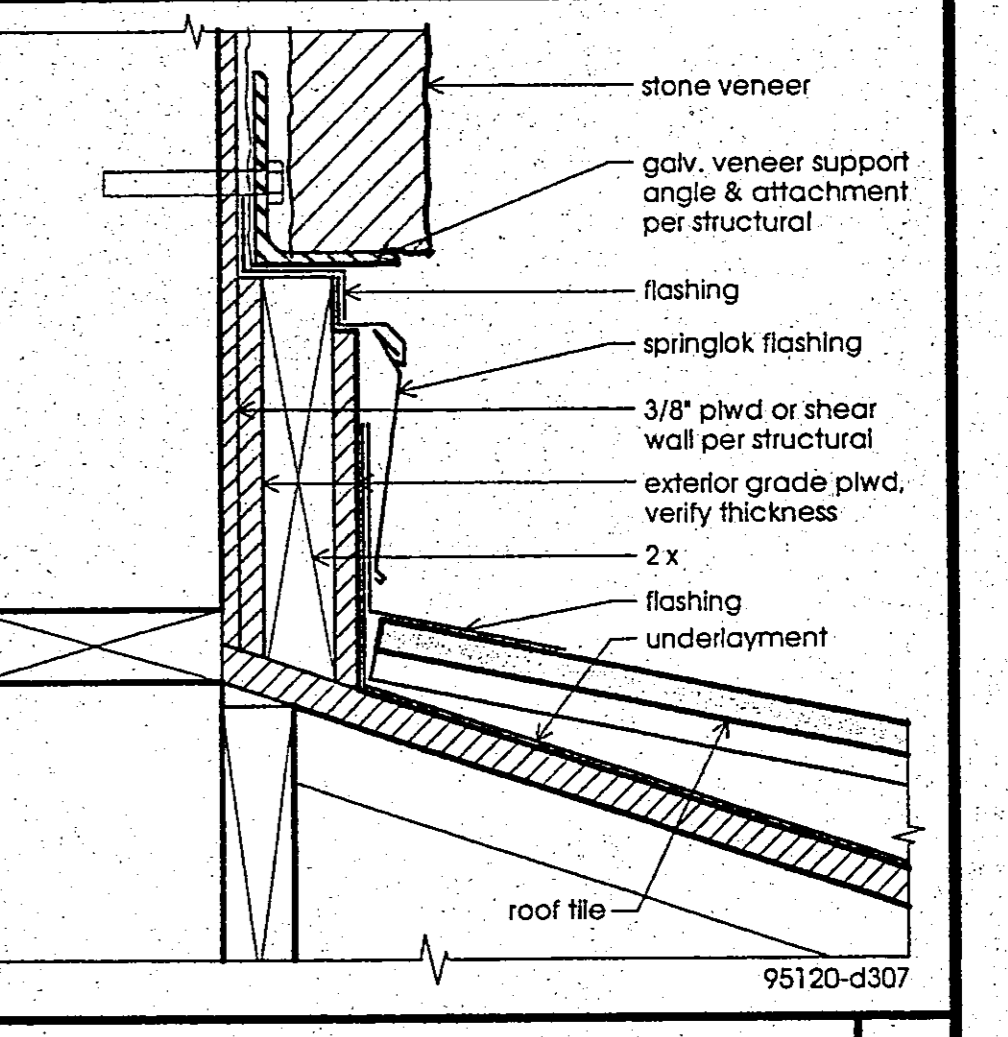
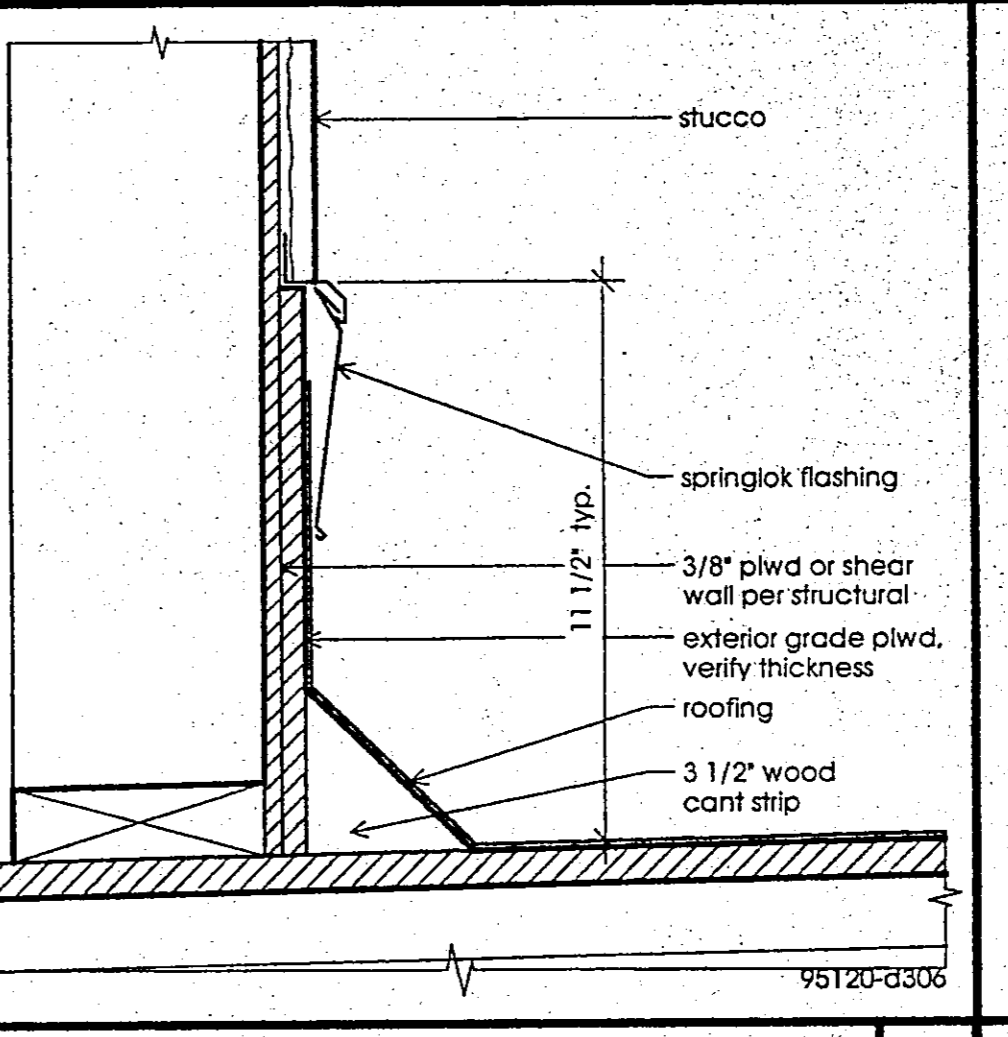
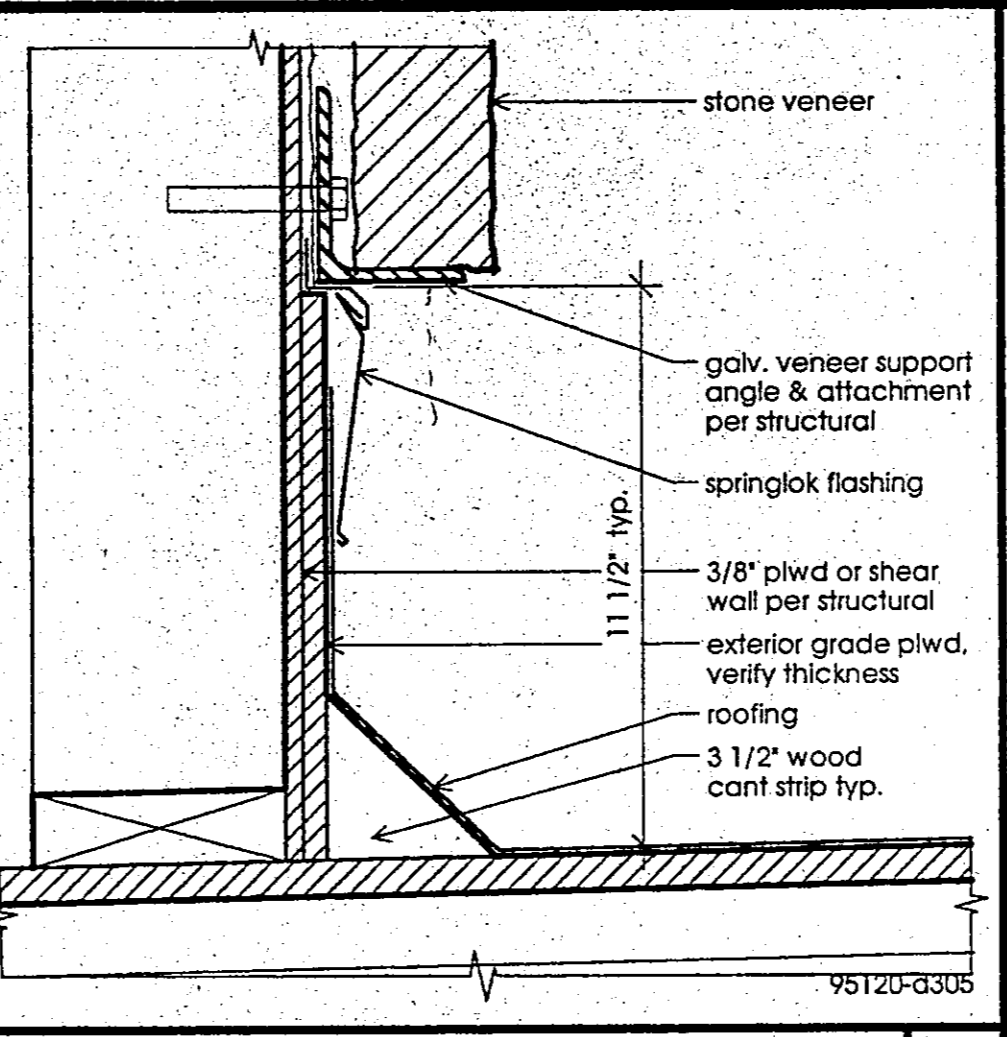
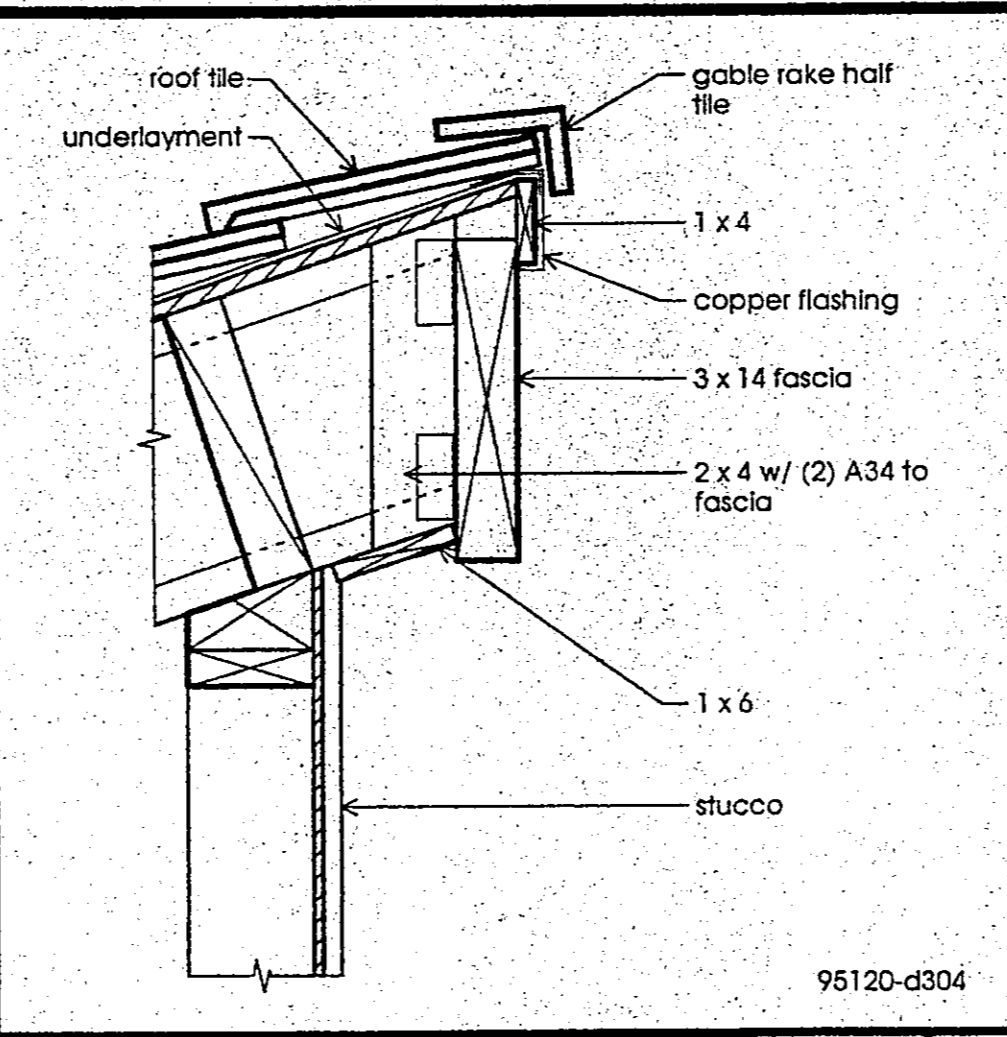
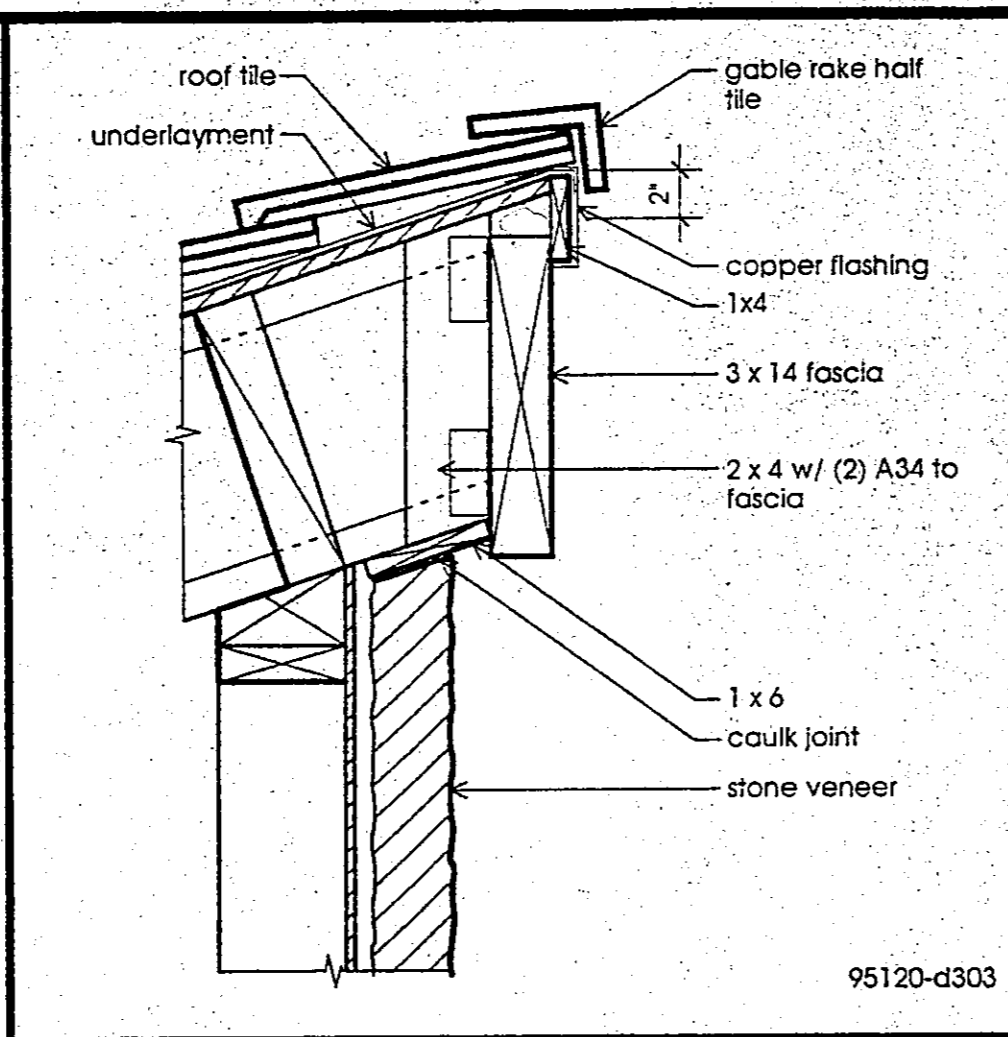
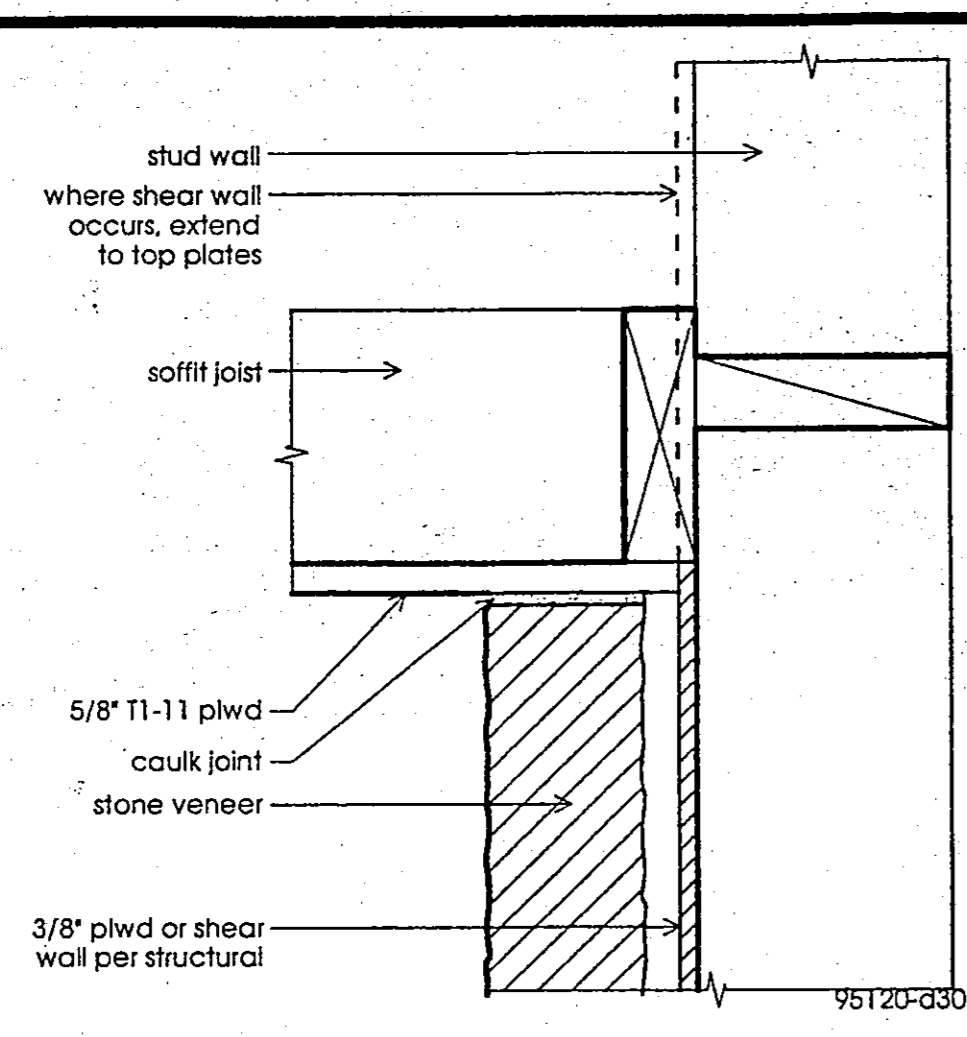
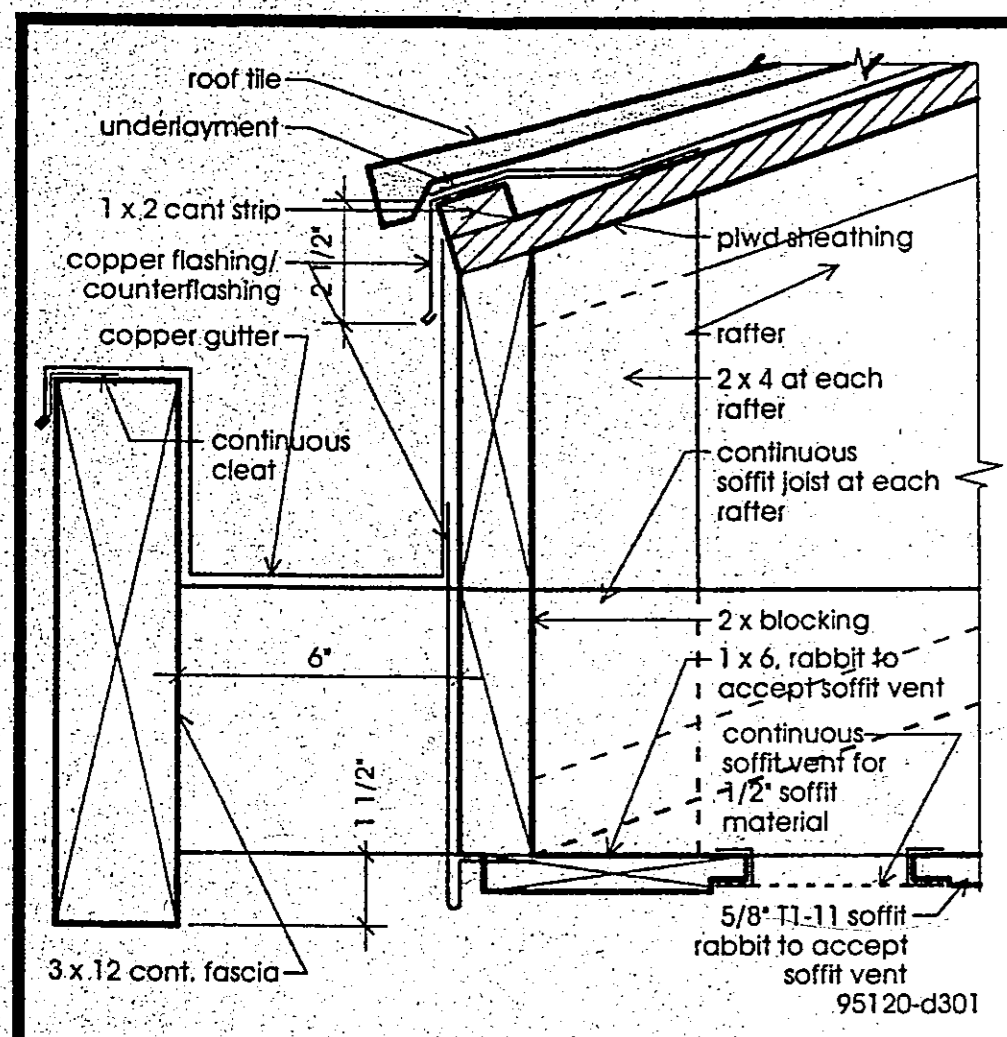
12/23/03 update revisions

POINT VICENTE INTERPRETIVE CENTER EXPANSION
31501 Palms Verde Drive West
Rancho Palms Verde, CA

Architectural Details

DRAWN PM/MG
CHECKED RY
DATE 2/1/99
SCALE (as noted)
JOB NO. 95-120
SHEET D-2
28 OF 67 SHEETS

2" Form of masonry, not one they to be assigned to permission and account of Ron Yeo, Architect, Inc.



TYPICAL EAVE Scale: 3" = 1'-0" 1

SOFFIT AT VENEER Scale: 3" = 1'-0" 2

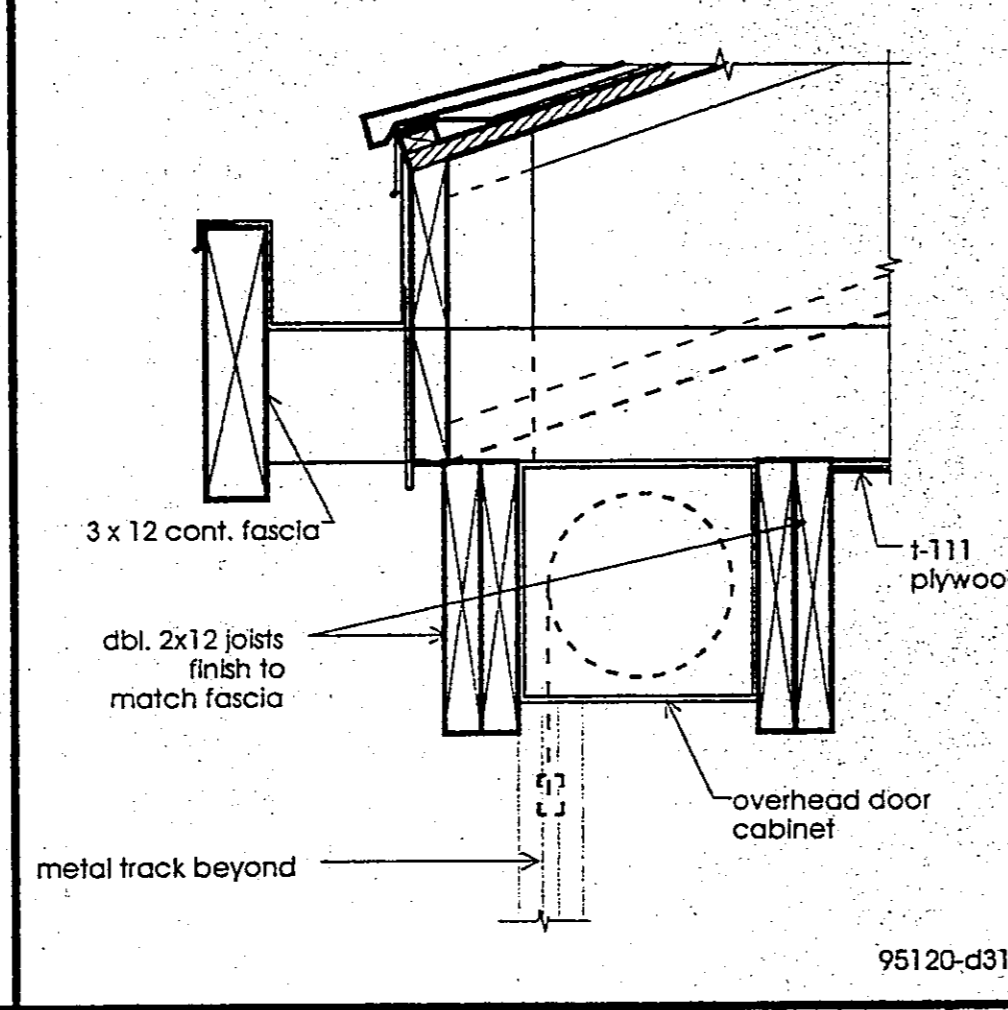
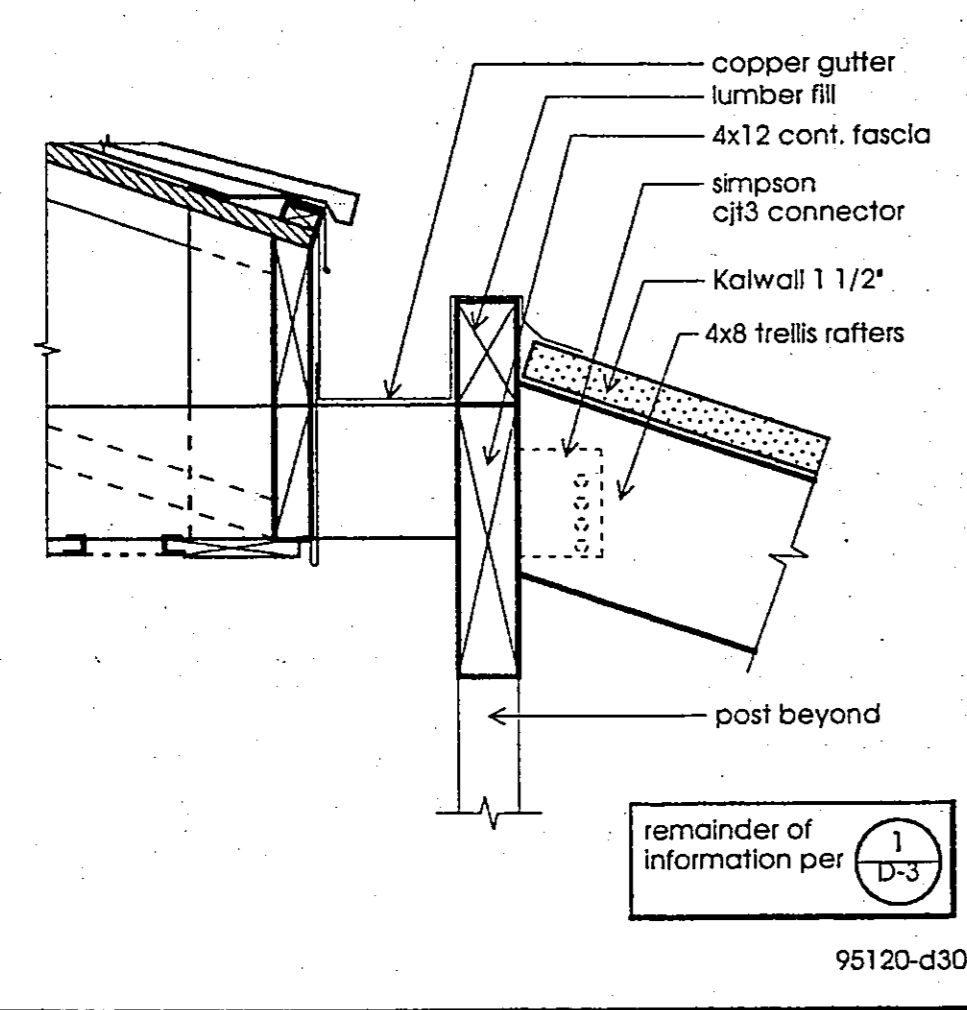
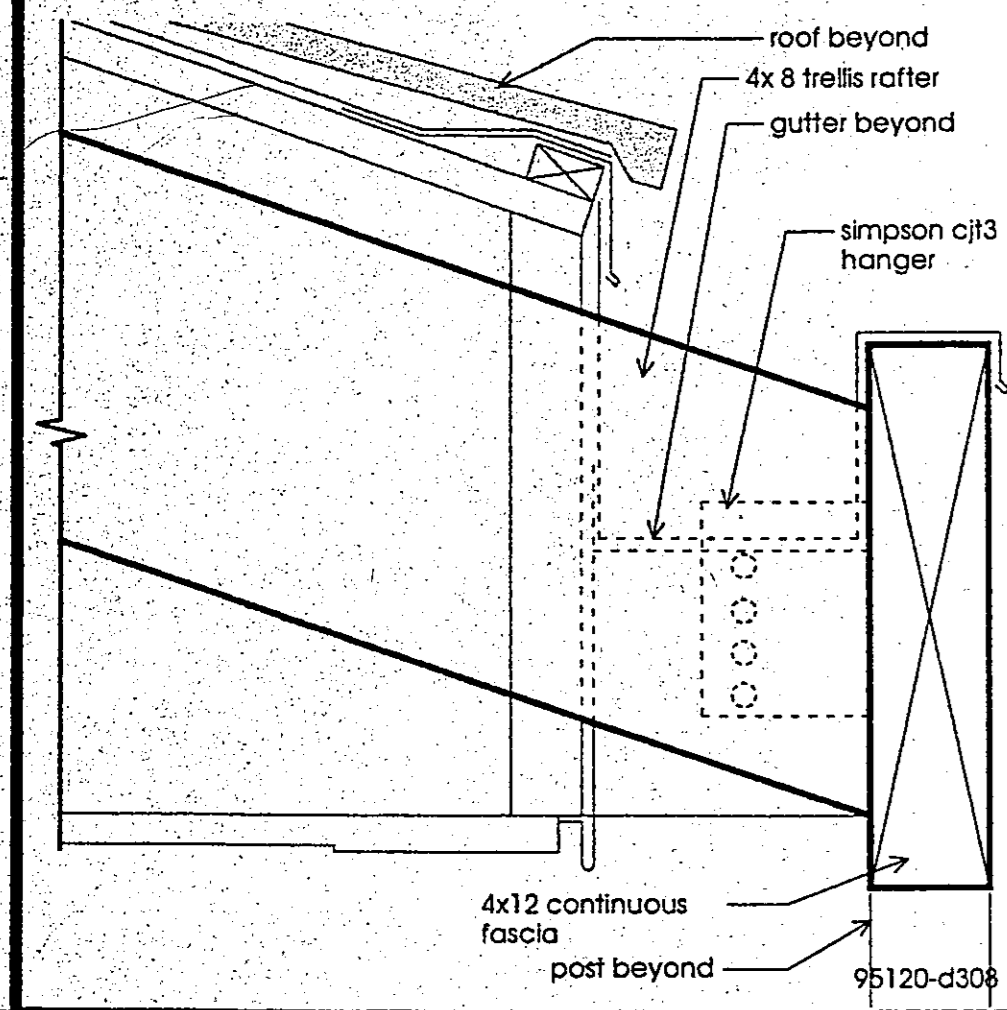
RAKE AT VENEER Scale: 1 1/2" = 1'-0" 3

RAKE AT STUCCO Scale: 1 1/2" = 1'-0" 4

VENEER AT MECH. WELL Scale: 3" = 1'-0" 5

STUCCO AT MECH. WELL Scale: 3" = 1'-0" 6

ROOF AT WALL Scale: 3" = 1'-0" 7



FASCIA AT TRELLIS Scale: 3" = 1'-0" 8

EAVE AT TRELLIS Scale: 1 1/2" = 1'-0" 9

OVERHEAD DOOR 1 1/2" = 1'-0" 10

DETAIL TITLE Scale: 1 1/2" = 1'-0" 11

DETAIL TITLE Scale: 1 1/2" = 1'-0" 12

DETAIL TITLE Scale: 1 1/2" = 1'-0" 13

DETAIL TITLE Scale: 1 1/2" = 1'-0" 14

DETAIL TITLE Scale: 1 1/2" = 1'-0" 15

DETAIL TITLE Scale: 1 1/2" = 1'-0" 16

DETAIL TITLE Scale: 1 1/2" = 1'-0" 17

DETAIL TITLE Scale: 1 1/2" = 1'-0" 18

DETAIL TITLE Scale: 1 1/2" = 1'-0" 19

DETAIL TITLE Scale: 1 1/2" = 1'-0" 20

DETAIL TITLE Scale: 1 1/2" = 1'-0" 21

DETAIL TITLE Scale: 1 1/2" = 1'-0" 22

DETAIL TITLE Scale: 1 1/2" = 1'-0" 23

DETAIL TITLE Scale: 1 1/2" = 1'-0" 24

DETAIL TITLE Scale: 1 1/2" = 1'-0" 25

DETAIL TITLE Scale: 1 1/2" = 1'-0" 26

DETAIL TITLE Scale: 1 1/2" = 1'-0" 27

DETAIL TITLE Scale: 1 1/2" = 1'-0" 28

DETAIL TITLE Scale: 1 1/2" = 1'-0" 29

DETAIL TITLE Scale: 1 1/2" = 1'-0" 30

DETAIL TITLE Scale: 1 1/2" = 1'-0" 31

DETAIL TITLE Scale: 1 1/2" = 1'-0" 32

DETAIL TITLE Scale: 1 1/2" = 1'-0" 33

DETAIL TITLE Scale: 1 1/2" = 1'-0" 34

DETAIL TITLE Scale: 1 1/2" = 1'-0" 35

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 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



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POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palms Verde Drive West
 Rancho Palms Verde, CA

Architectural Details

DRAWN: PM/MG
 CHECKED: RY
 DATE: 2/1/99
 SCALE: (as noted)
 JOB NO.: 95-120
 SHEET

D-3

29 OF 61 SHEETS

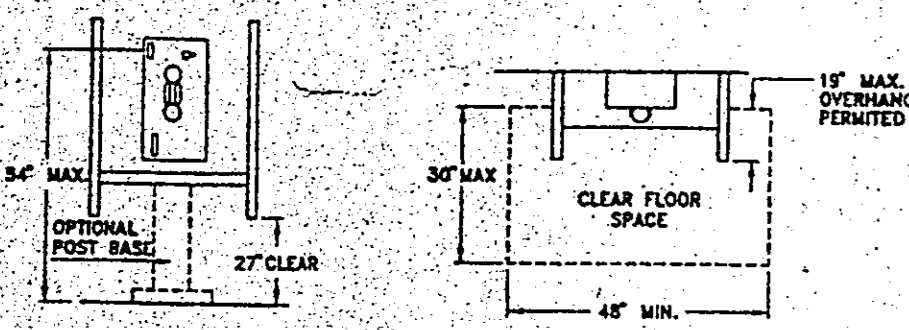


Fig.70-A
SIDE REACH ARRANGEMENT

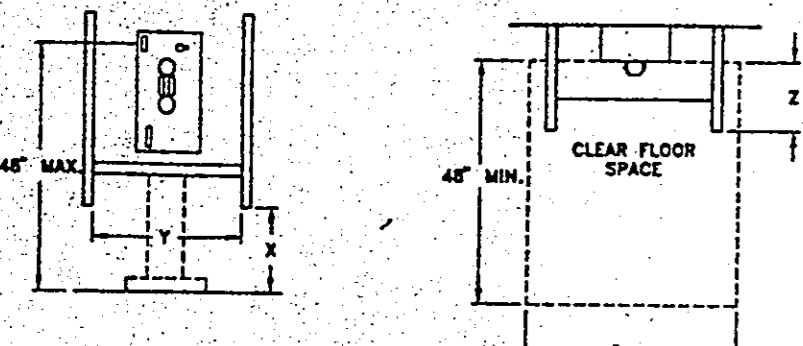


Fig.70-B
FORWARD REACH ARRANGEMENT

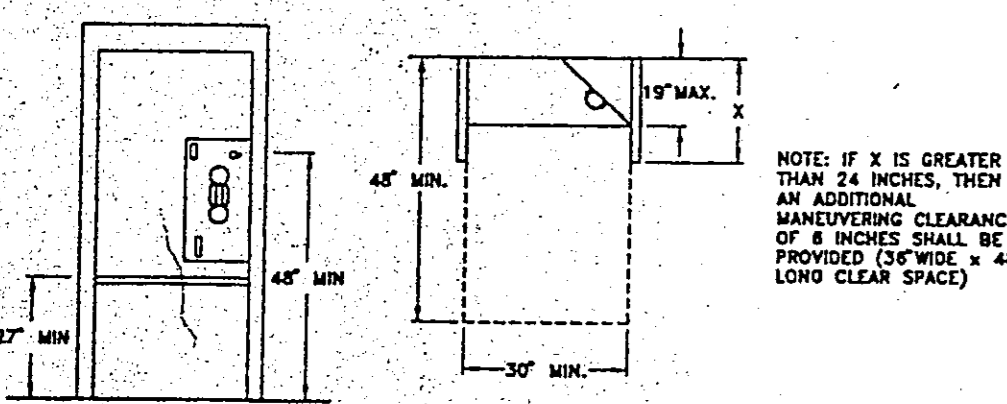


Fig.70-C
FULL HEIGHT ENCLOSURES

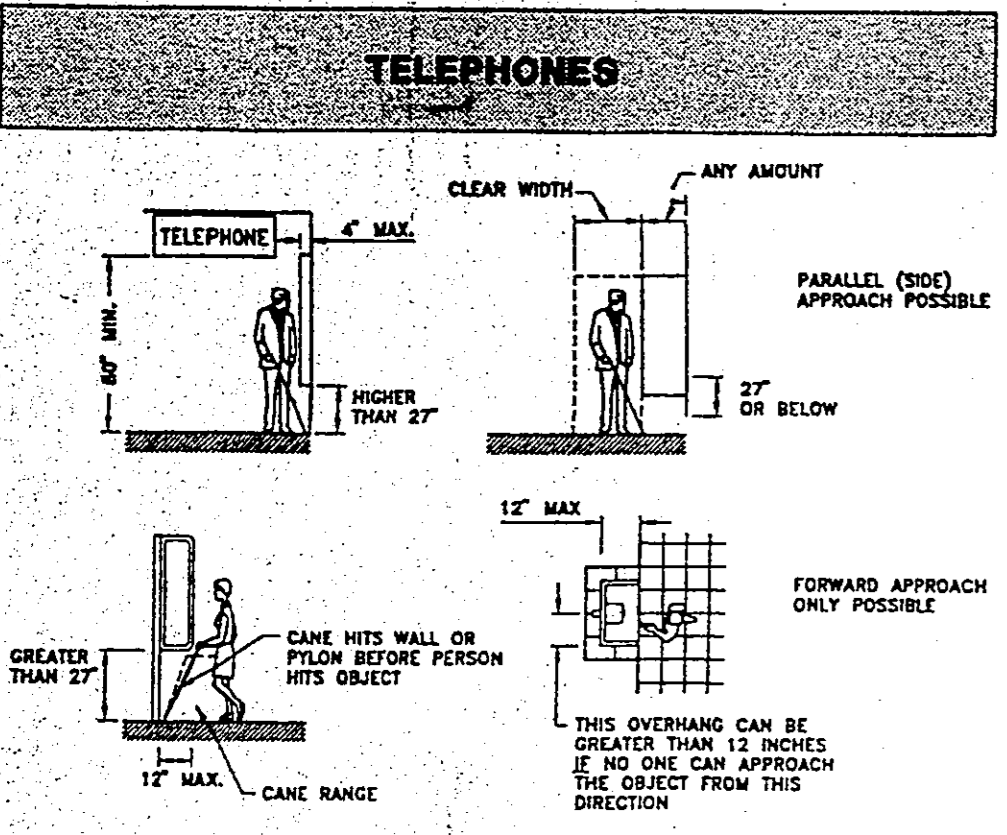


Fig.71-A
PROTRUDING TELEPHONE ENCLOSURES

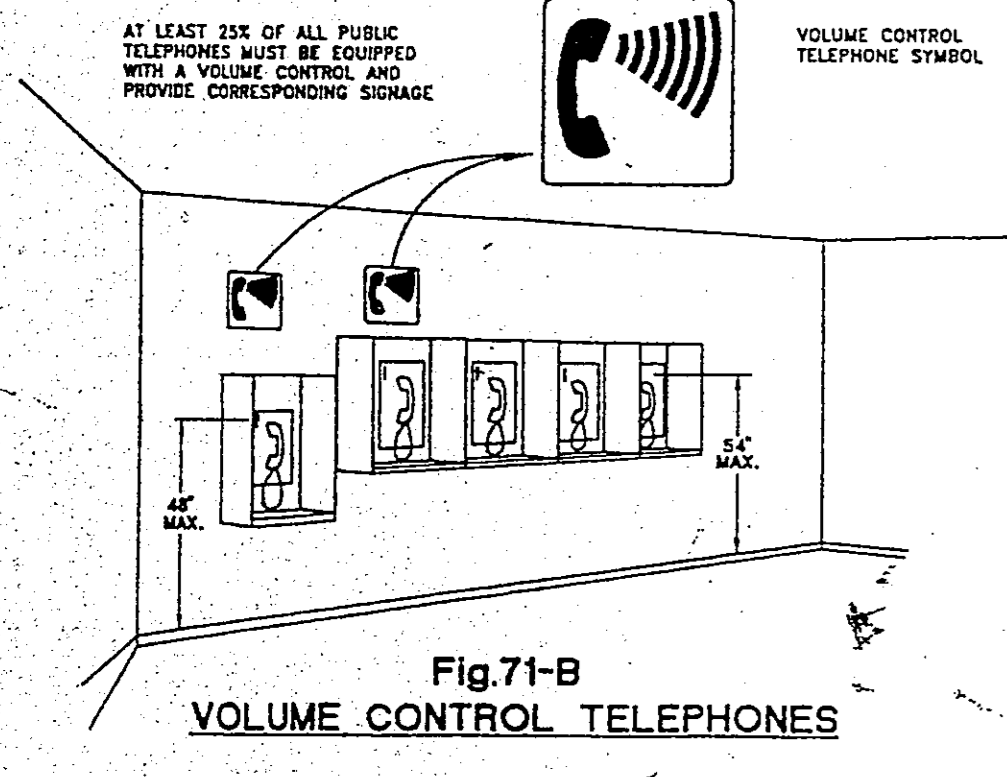


Fig.71-B
VOLUME CONTROL TELEPHONES

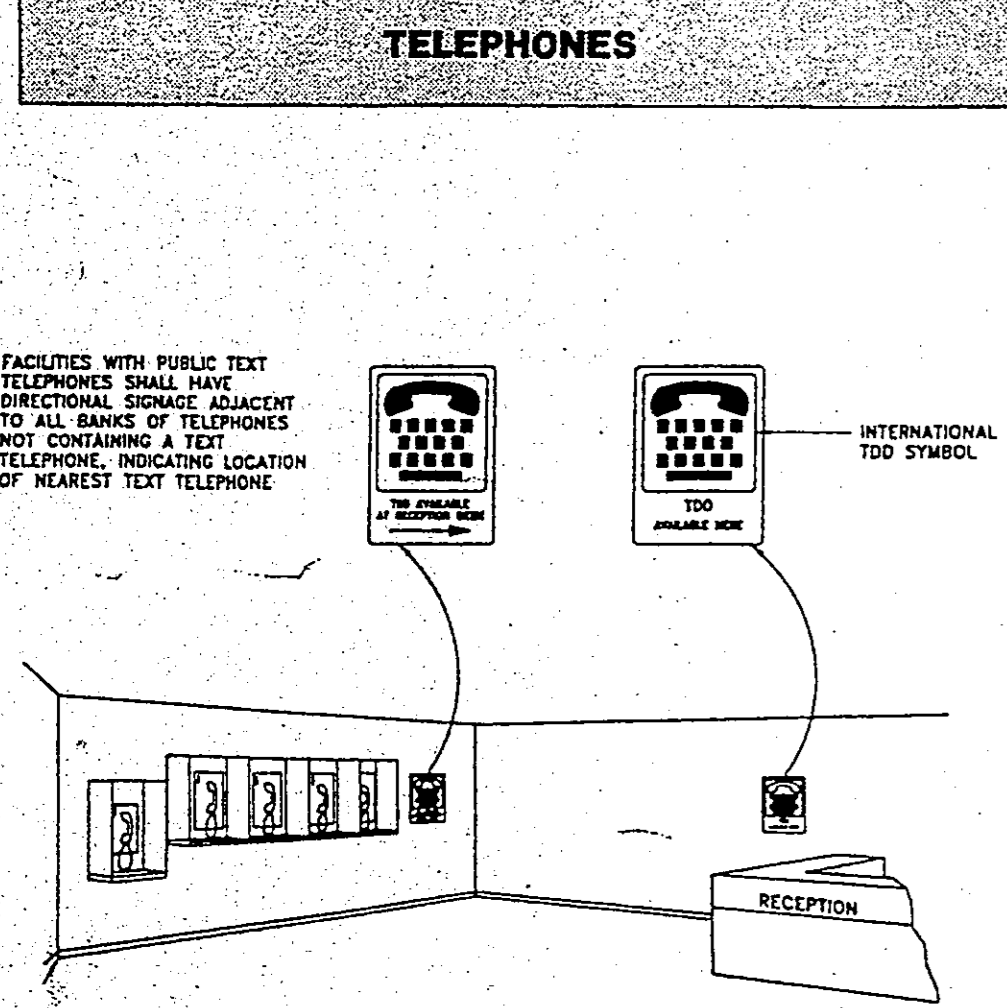


Fig.72
TEXT TELEPHONE (TDD) SIGNAGE

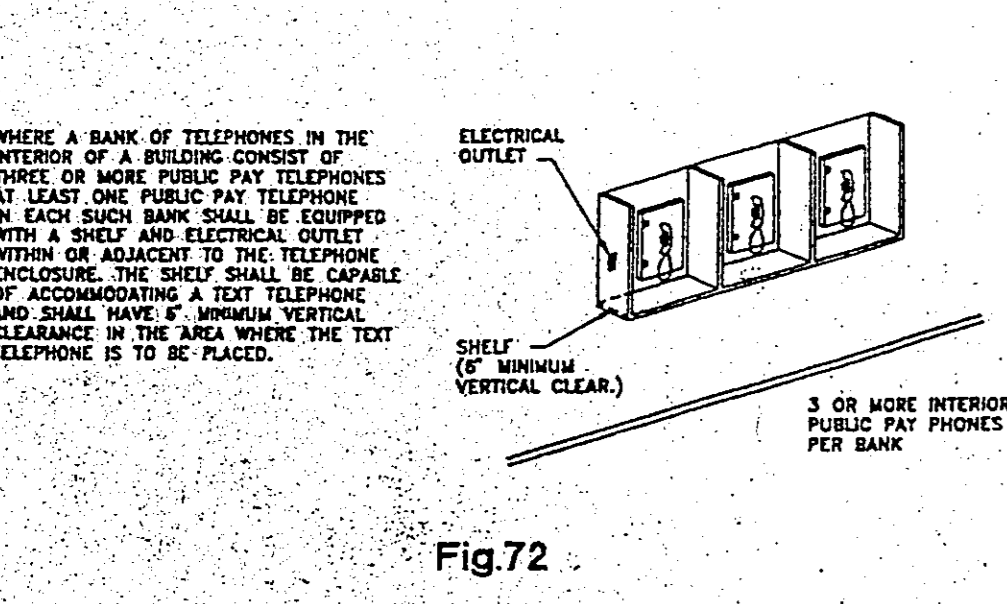


Fig.72
TEXT TELEPHONES (TDD)

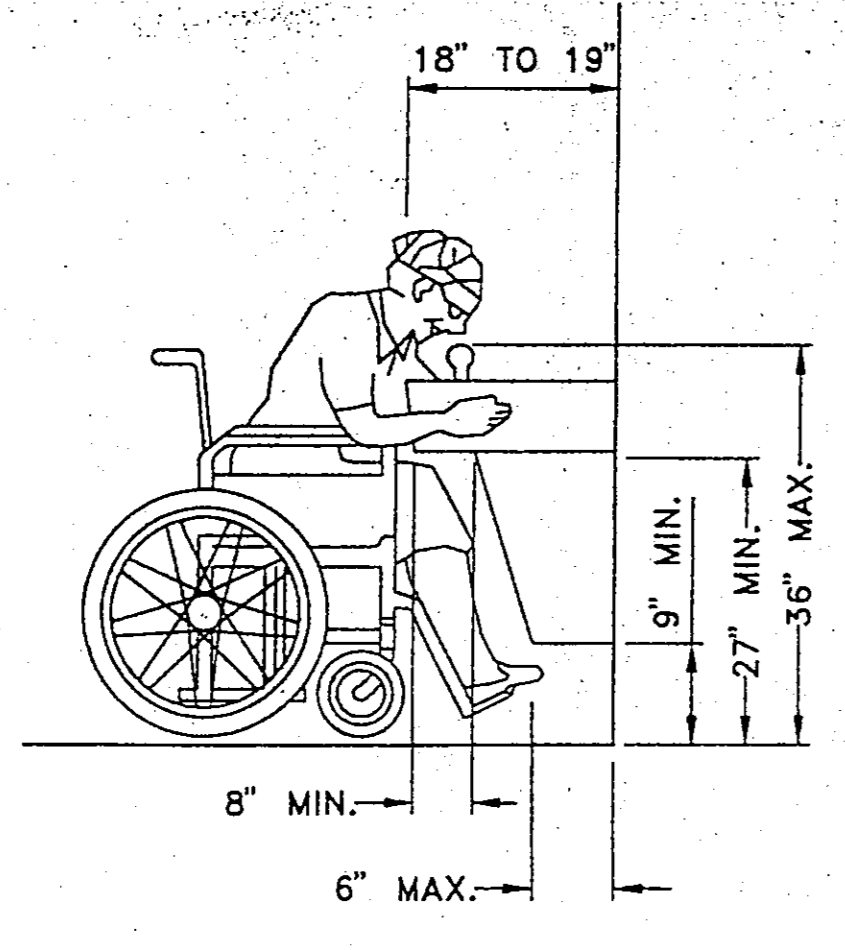


Fig.64
SPOUT HEIGHT AND KNEE CLEARANCE

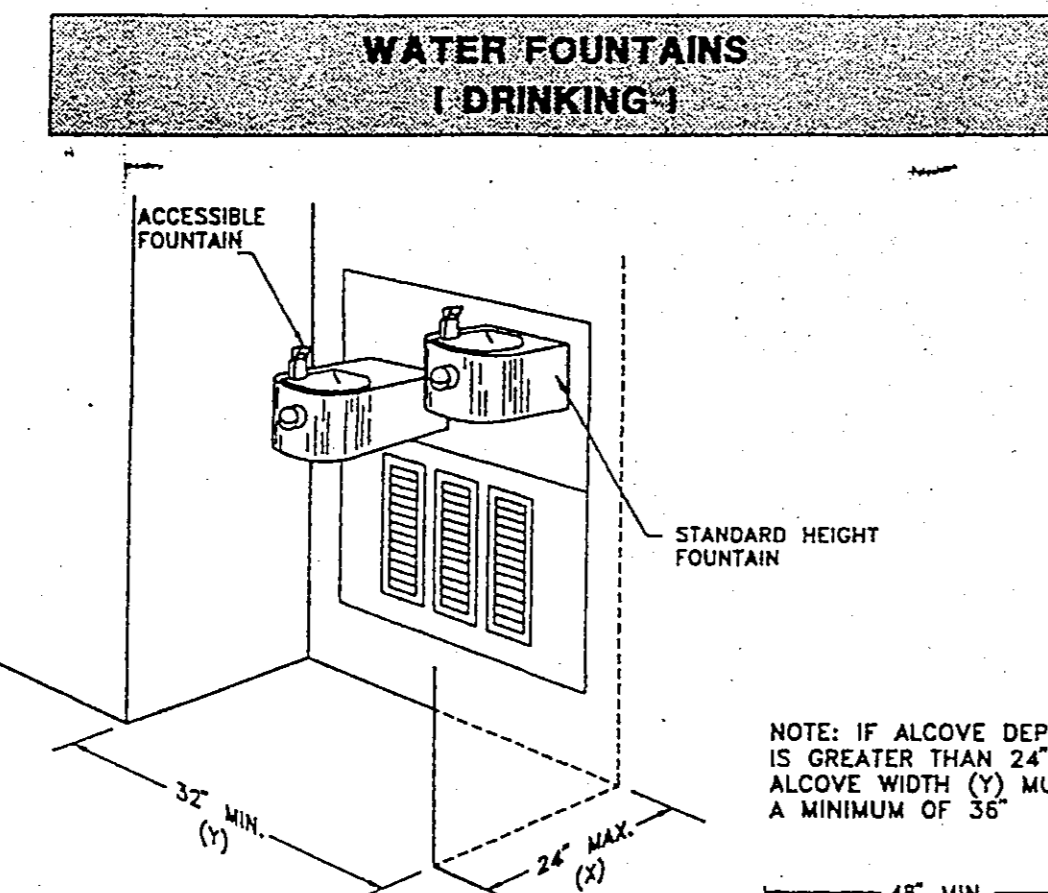


Fig.65-A
'HI-LO' FOUNTAIN DESIGN

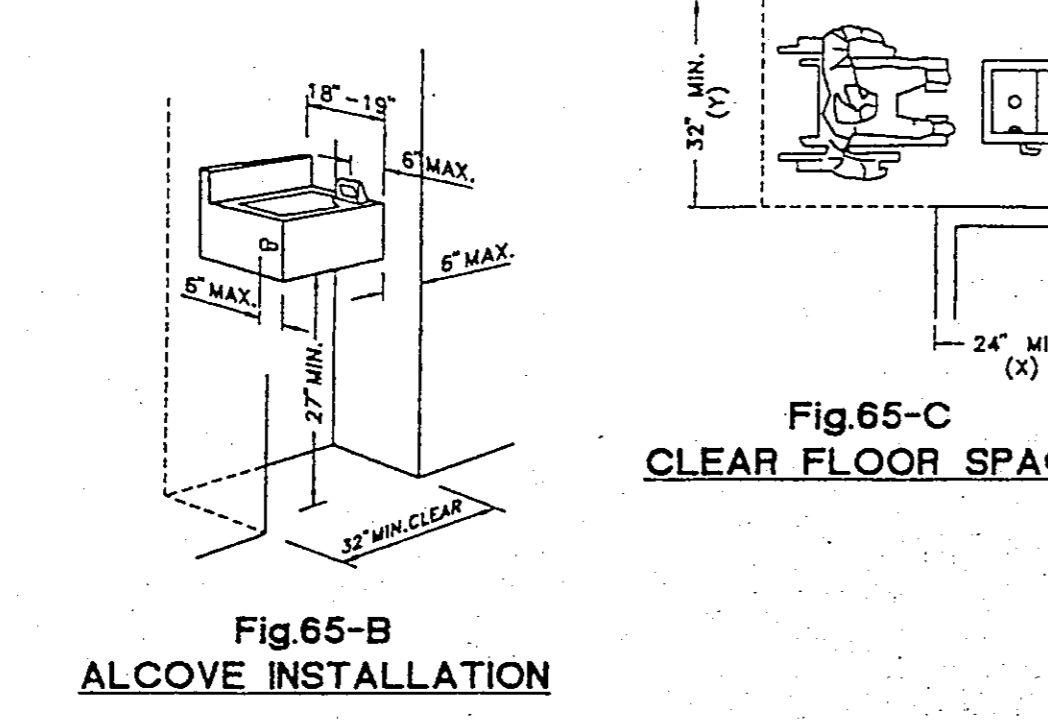


Fig.65-B
ALCOVE INSTALLATION

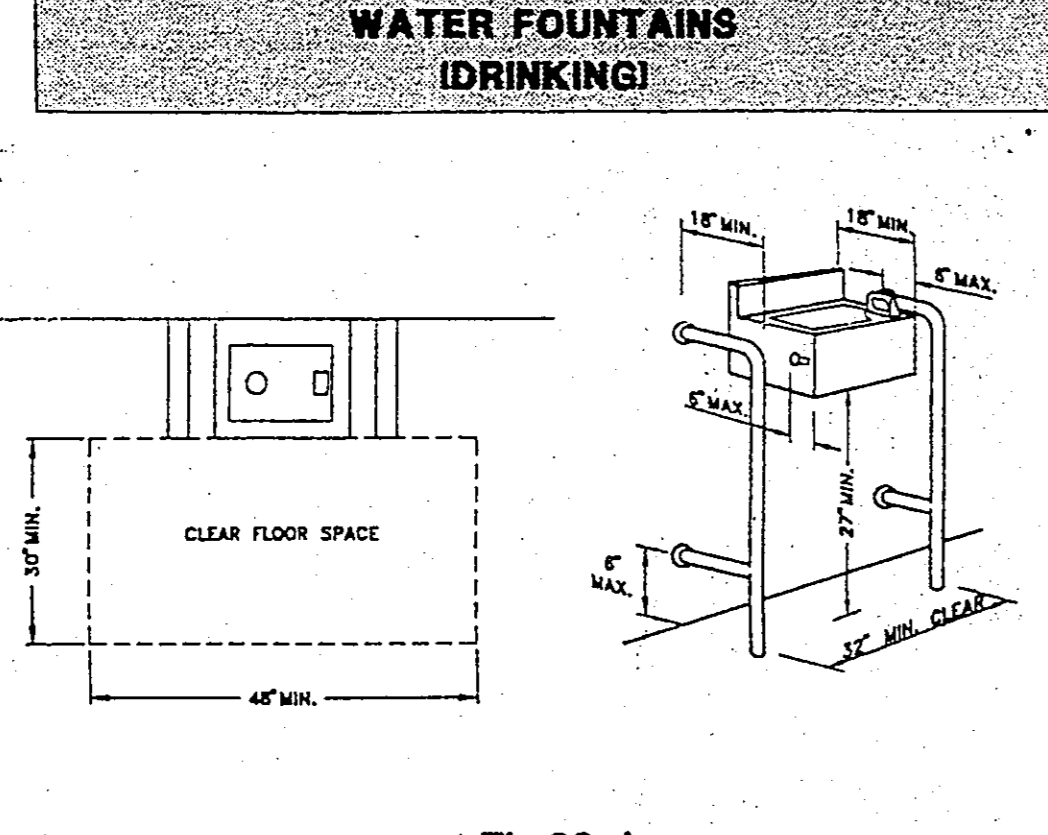


Fig.66-A
NON-ALCOVE WING WALL INSTALLATION
EXCEPTION ONLY

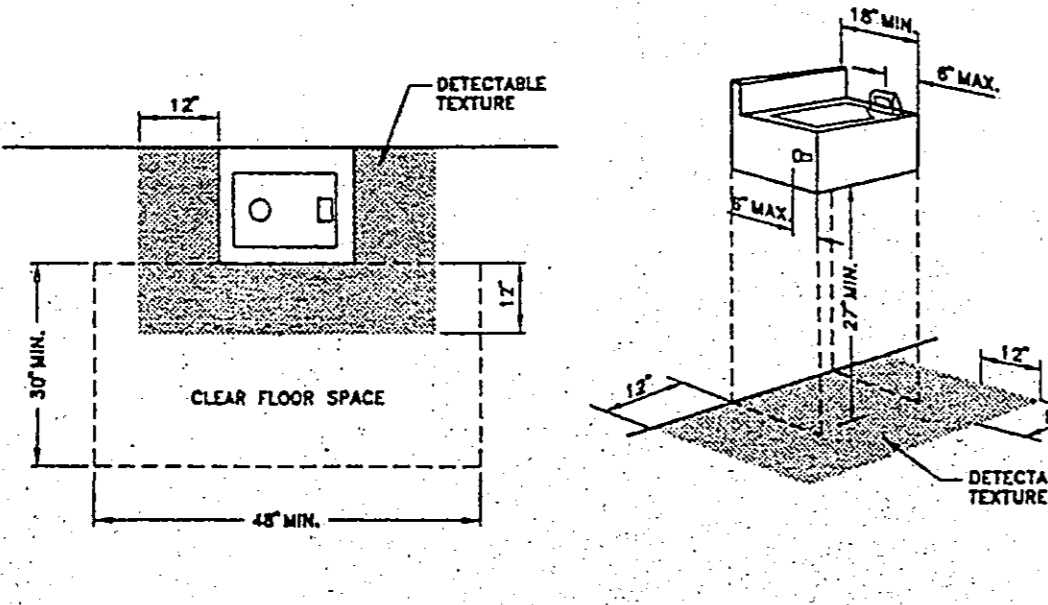


Fig.66-B
NON-ALCOVE CANE DETECTABLE SURFACE
INSTALLATION
EXCEPTION ONLY

Fig.66-B
NON-ALCOVE CANE DETECTABLE SURFACE
INSTALLATION
EXCEPTION ONLY

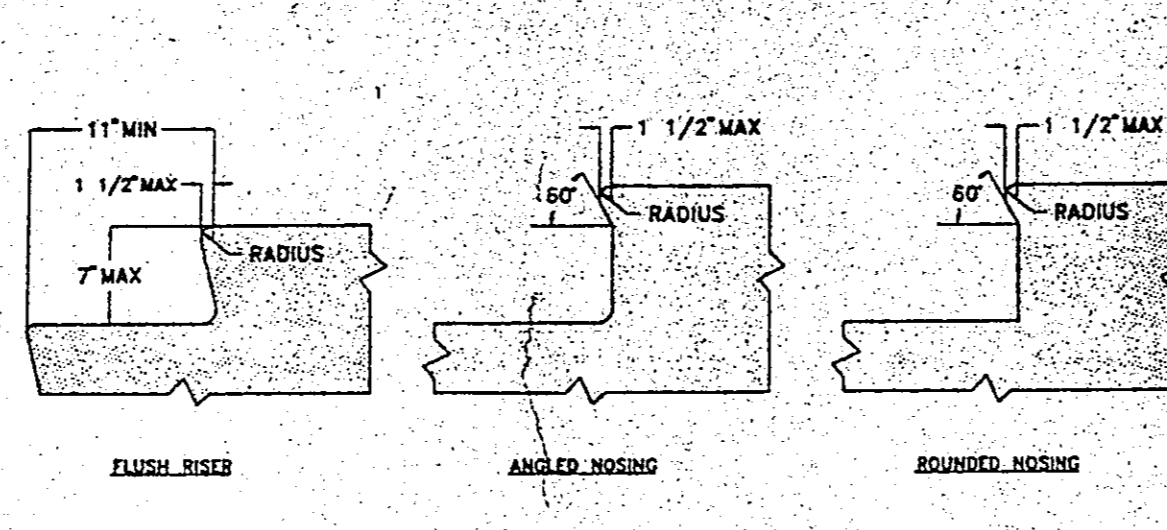


Fig.48-A
USABLE TREAD WIDTH AND EXAMPLES
OF ACCEPTABLE NOSING

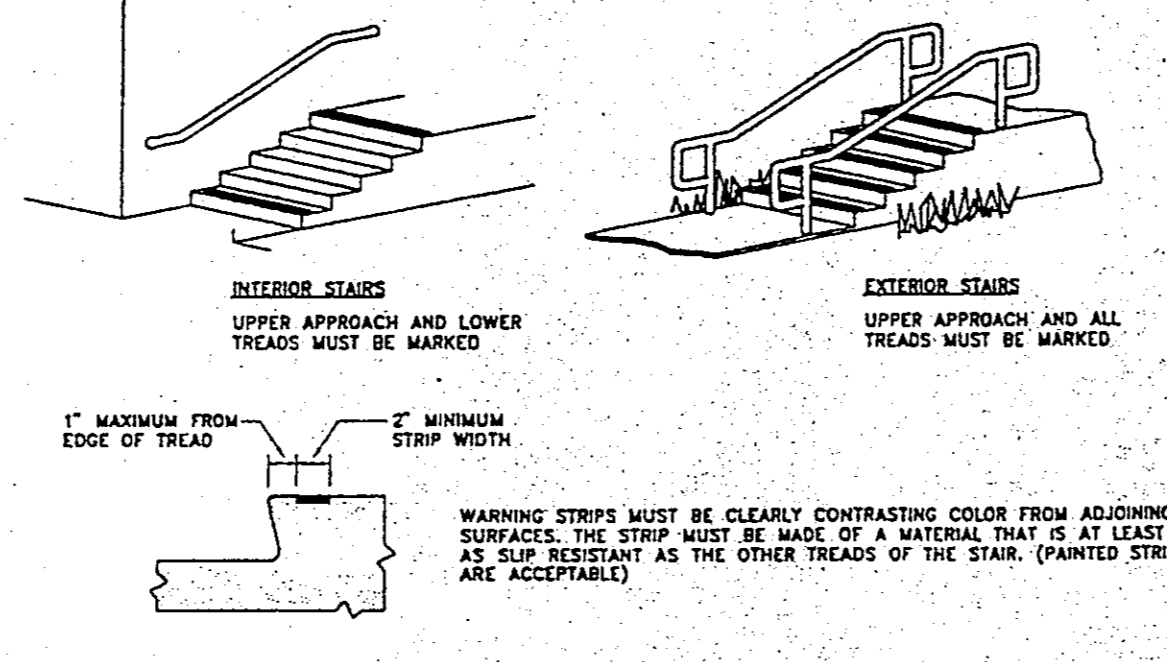
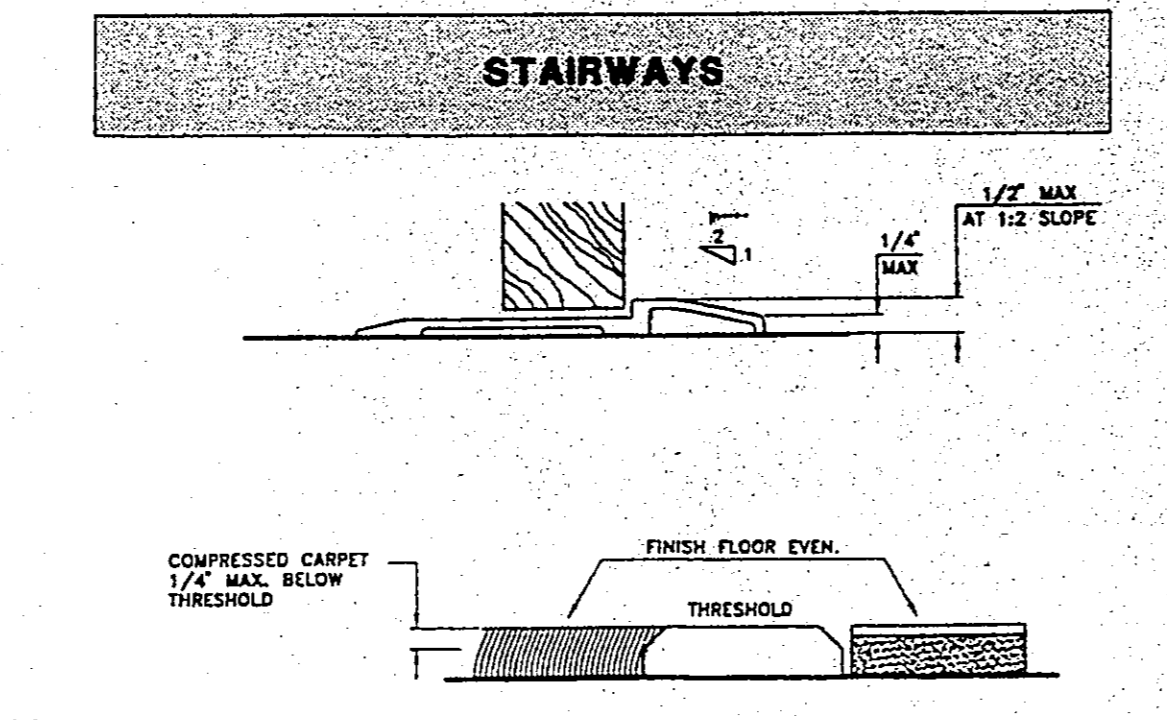


Fig.48-B
VISUALLY IMPAIRED WARNING STRIPING



STAIRWAYS

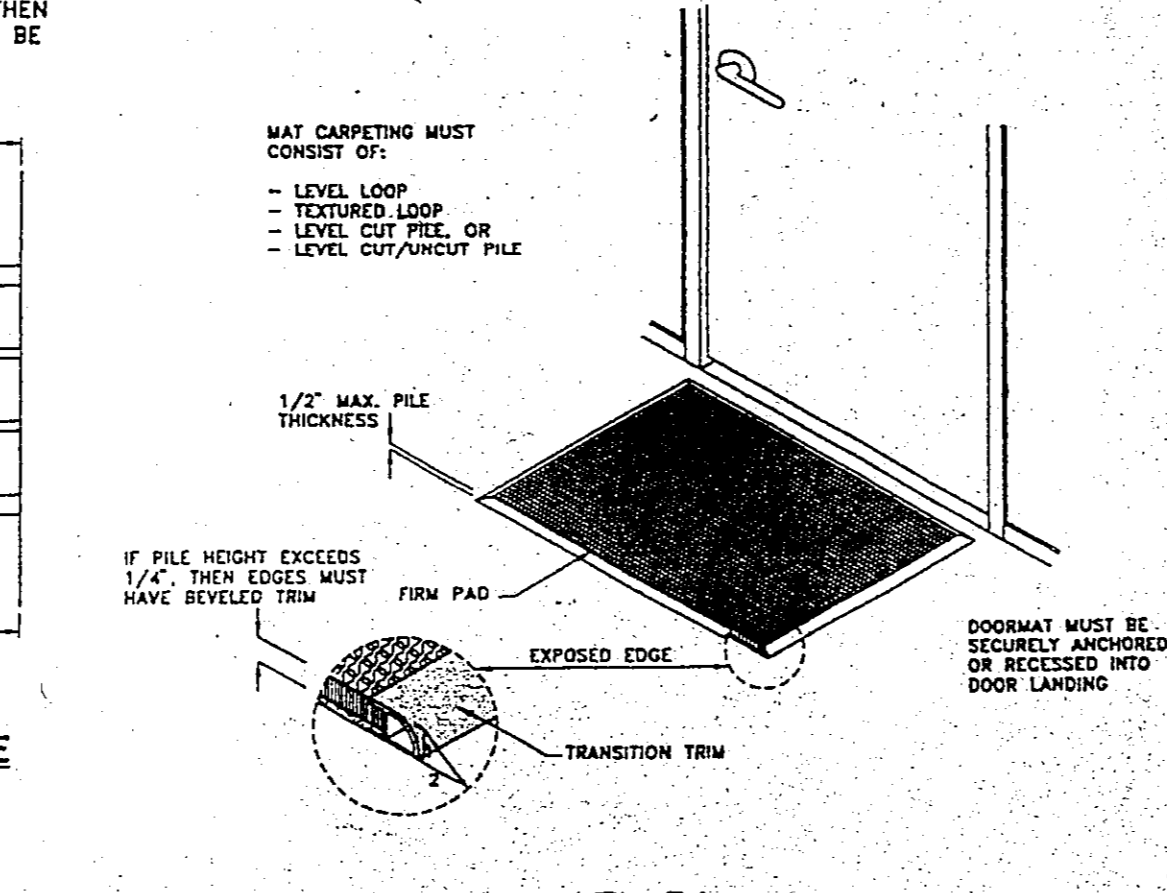


Fig.54

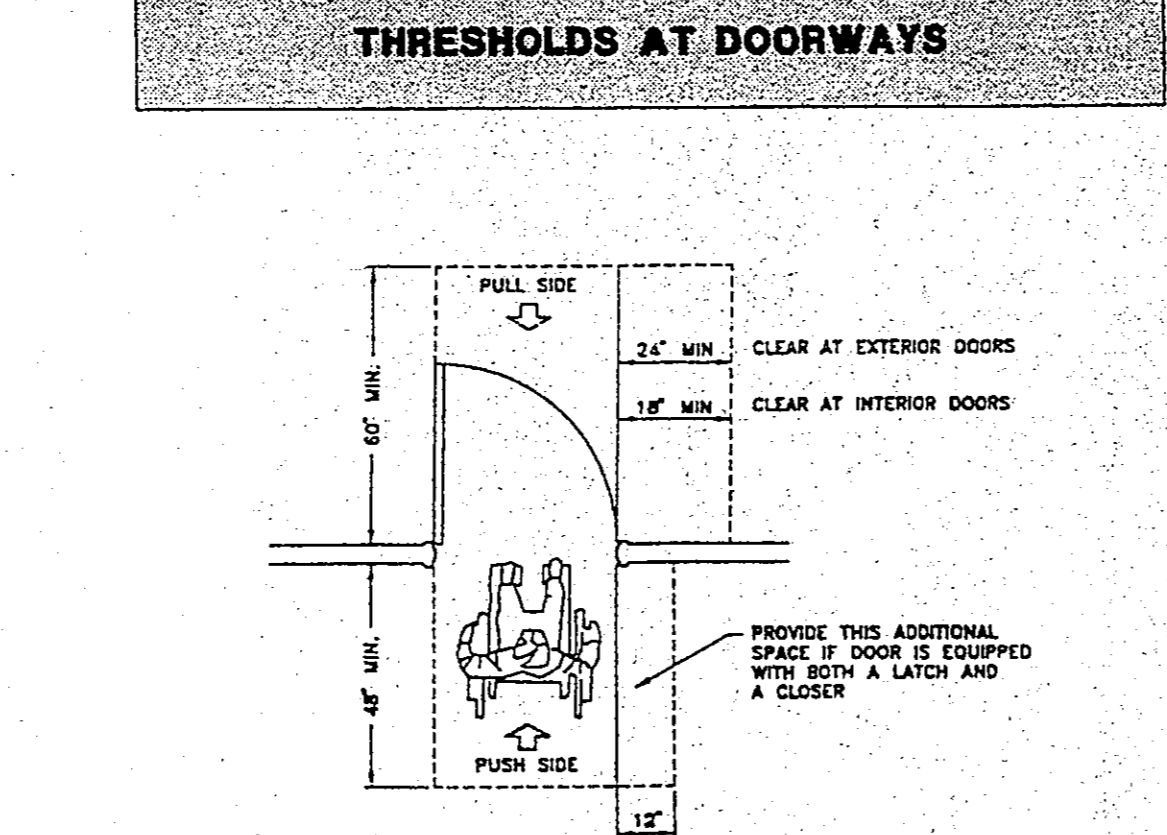


Fig.56
TWO HINGED DOORS IN SERIES

Fig.56
TWO HINGED DOORS IN SERIES

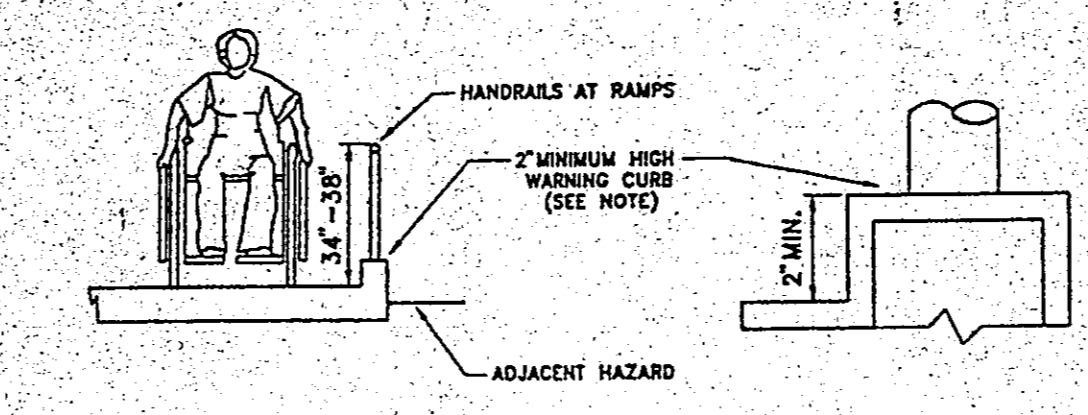


Fig.36
WARNING CURB EDGE PROTECTION

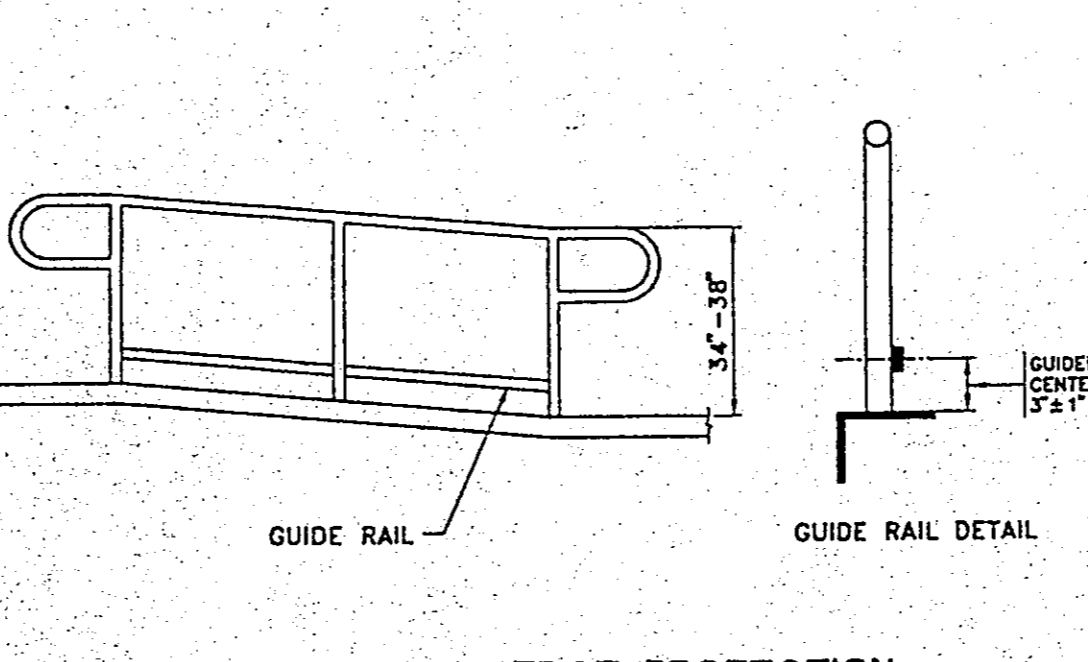
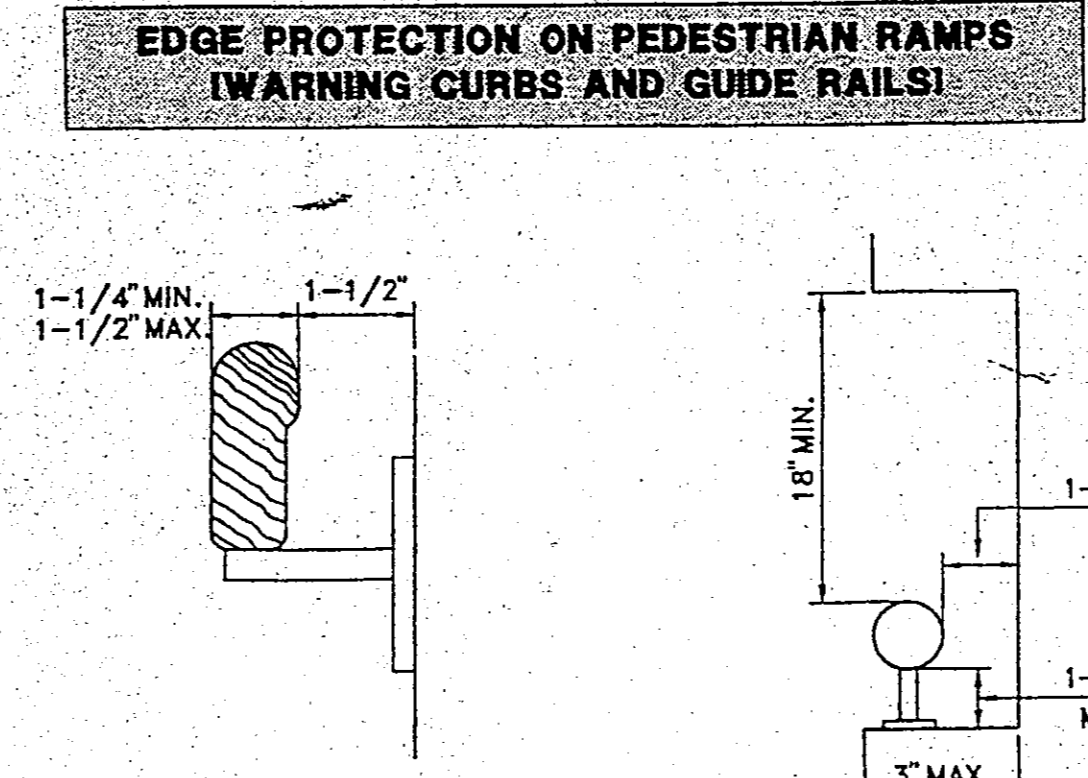


Fig.36
GUIDE RAIL EDGE PROTECTION



**EDGE PROTECTION ON PEDESTRIAN RAMPS
(WARNING CURBS AND GUIDE RAILS)**

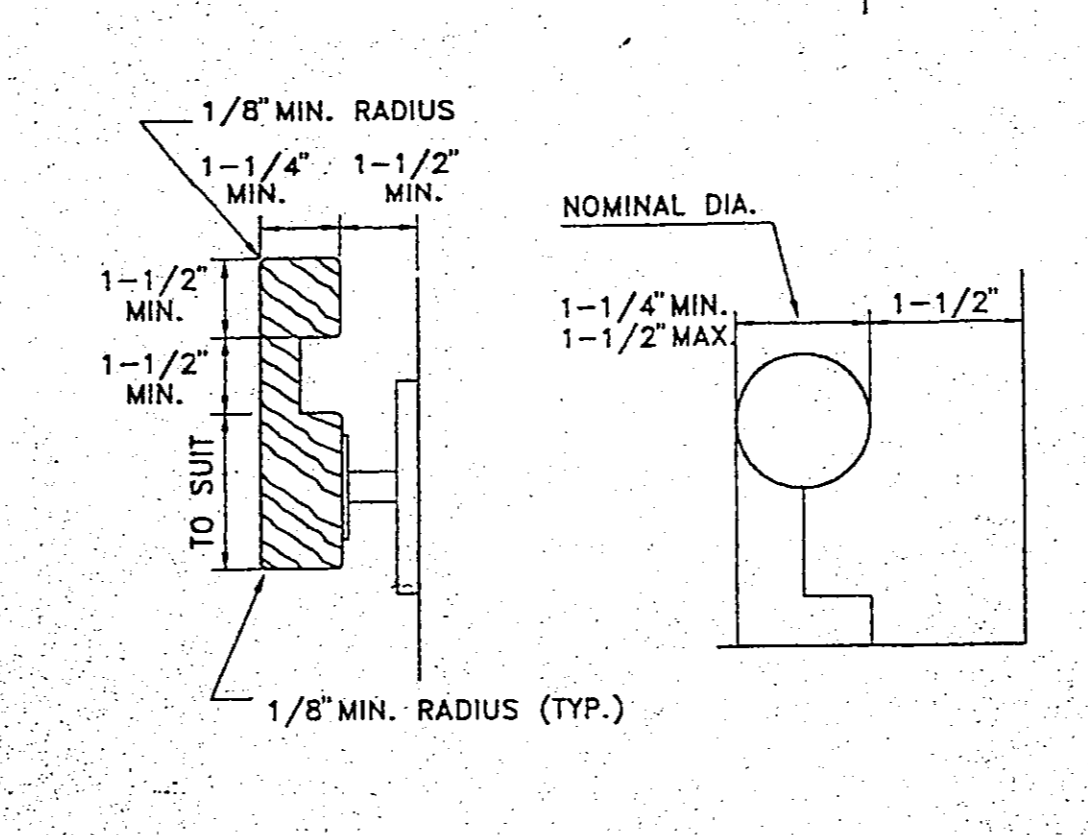


Fig.46

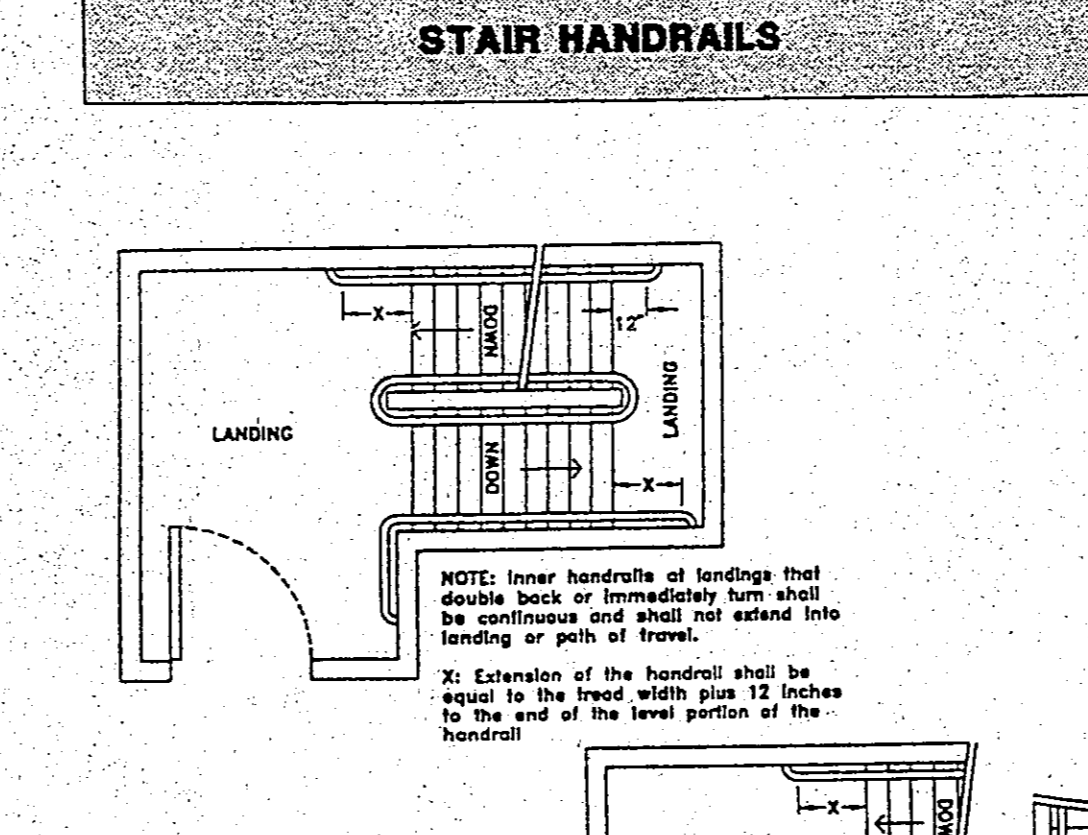


Fig.47

Fig.47
HANDRAIL EXTENSIONS
AT STAIRWAYS

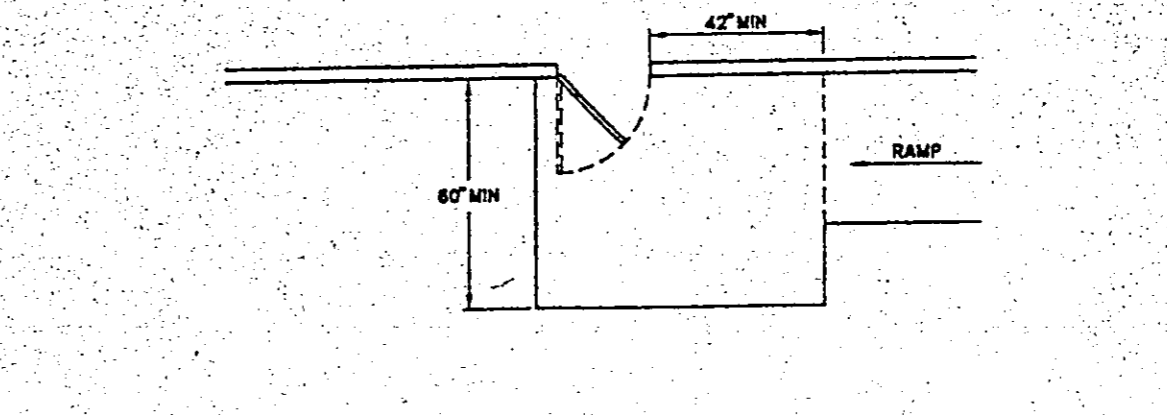


Fig.33

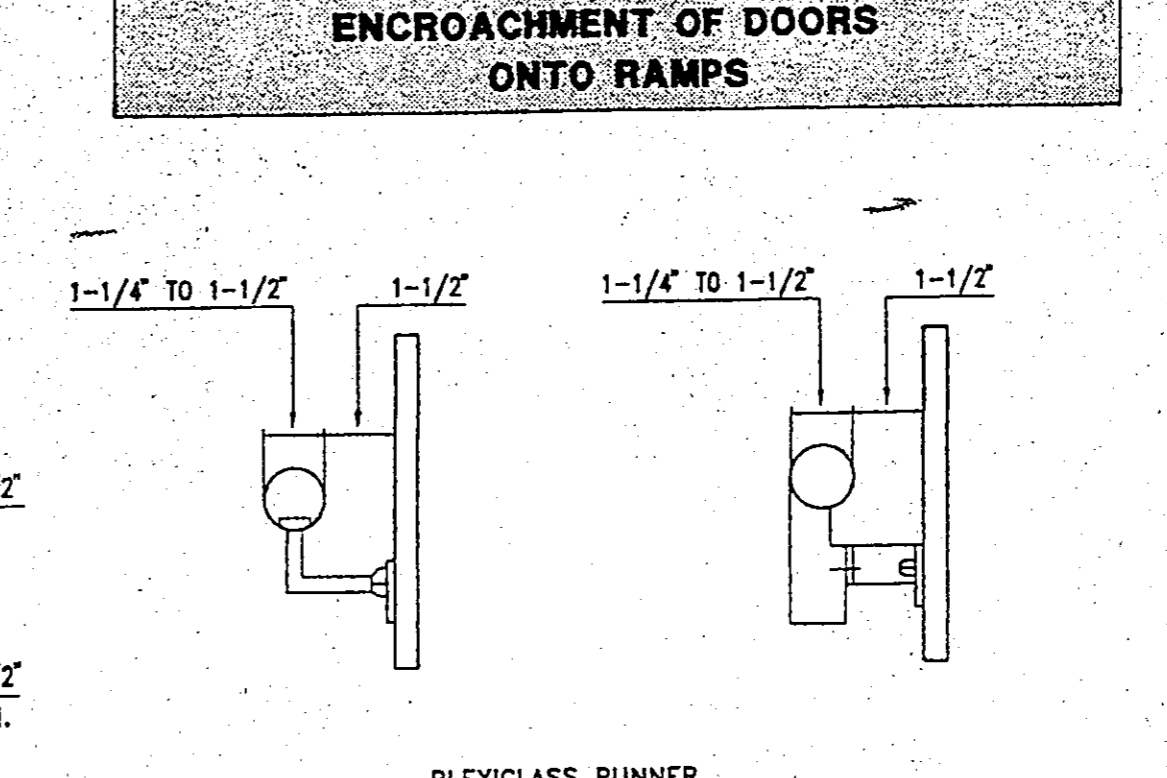


Fig.34

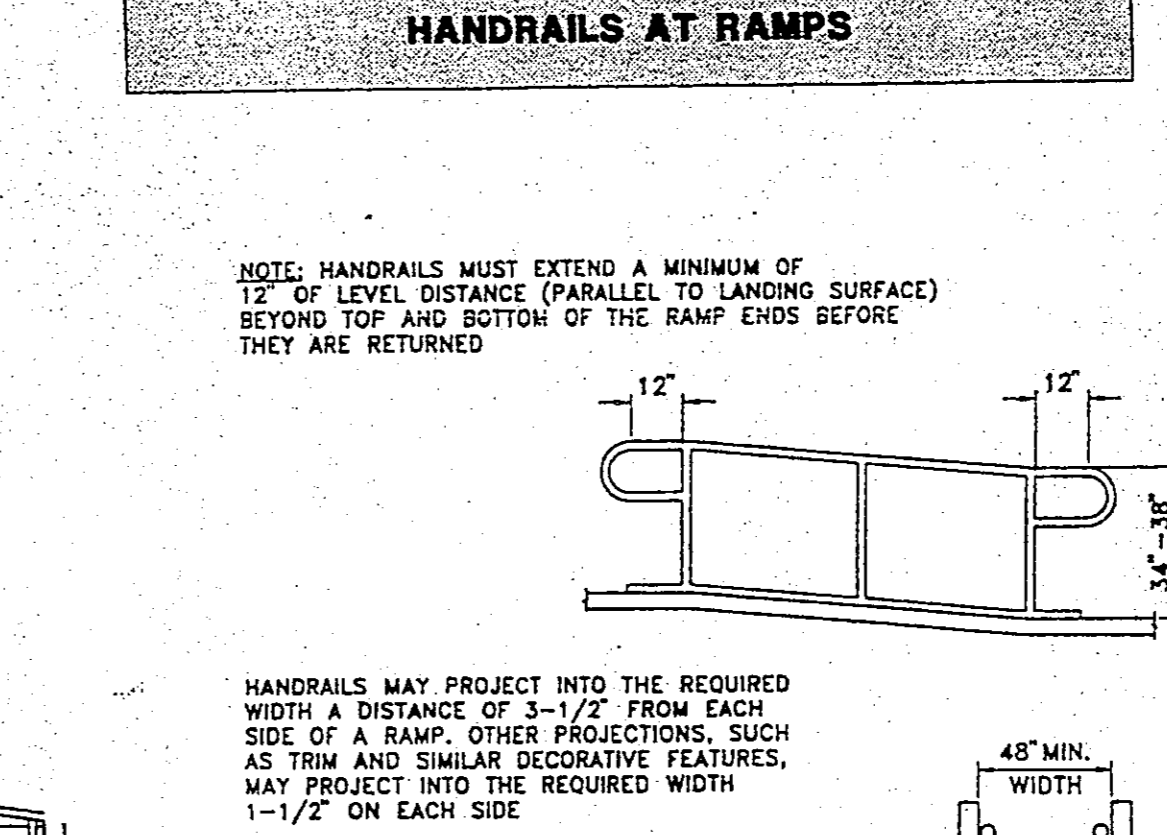


Fig.35

Fig.35
HANDRAILS AT RAMPS

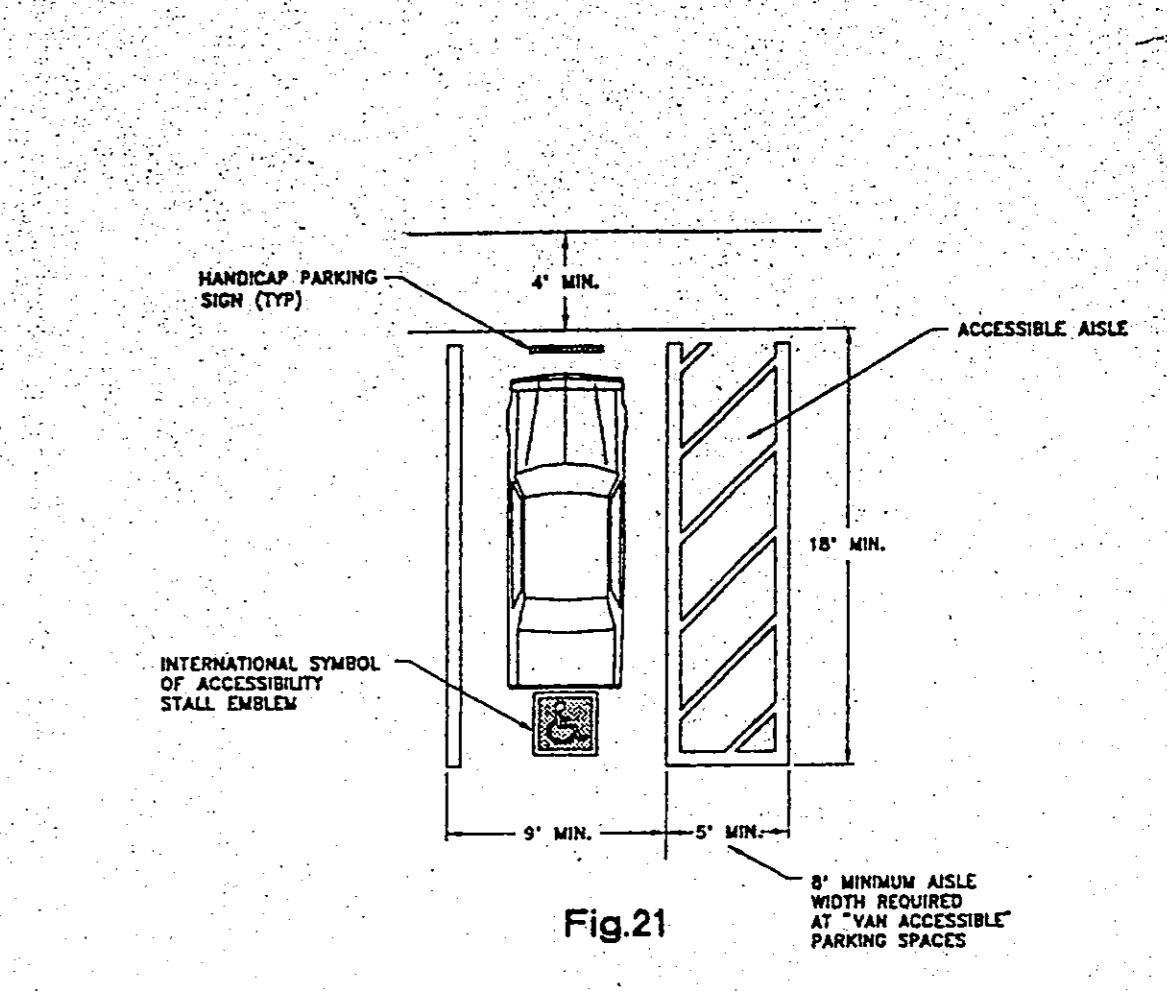


Fig.21

- GENERAL DISABLED PARKING SPACE NOTES:**
- 1) Disabled parking space must permit use of either car doors.
 - 2) A parking bumper is required when no curb or barrier is provided which will prevent encroachment of cars over the adjoining accessible route.
 - 3) Wheelchair users must not be forced to go behind parked cars other than their own to access an adjoining accessible route.
 - 4) The maximum surface slope within the disabled parking space and adjacent access aisle may not exceed 2% in any direction.
 - 5) Curb ramps may not encroach into the required dimensions of disabled parking spaces or adjacent access aisles.
 - 6) Access aisle (loading/unloading area) must connect to an accessible path of travel to the facility.

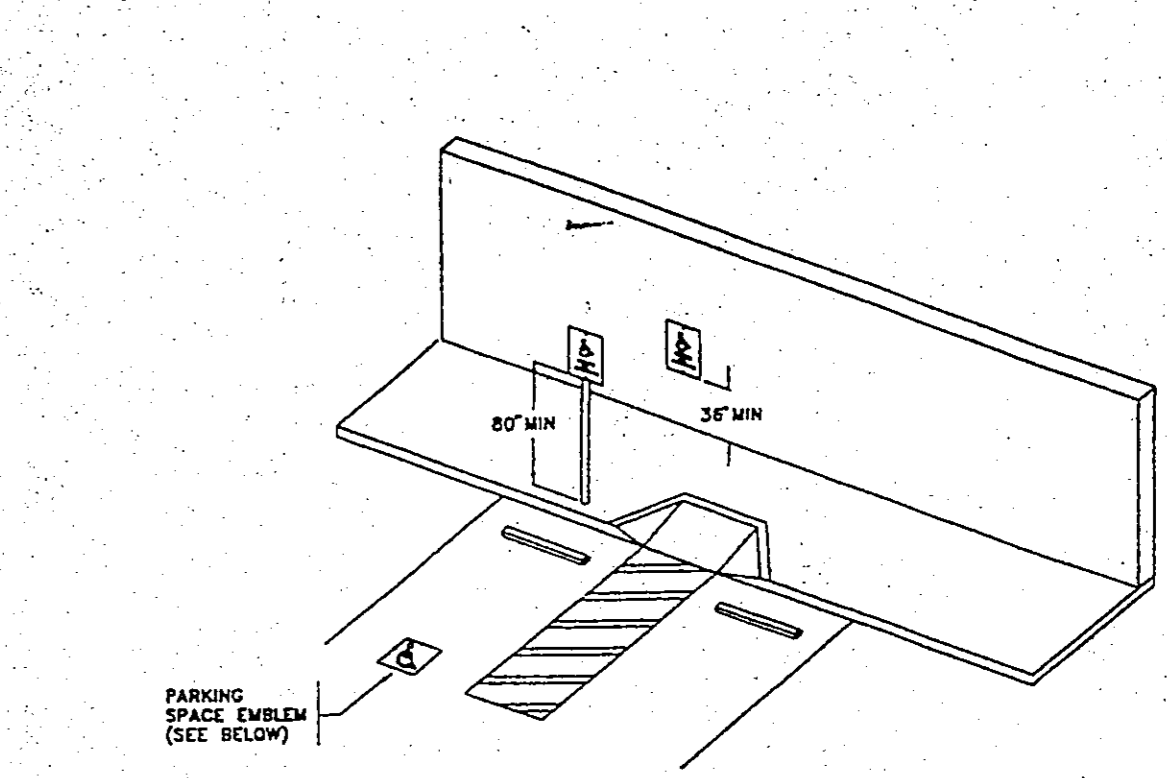


Fig.23

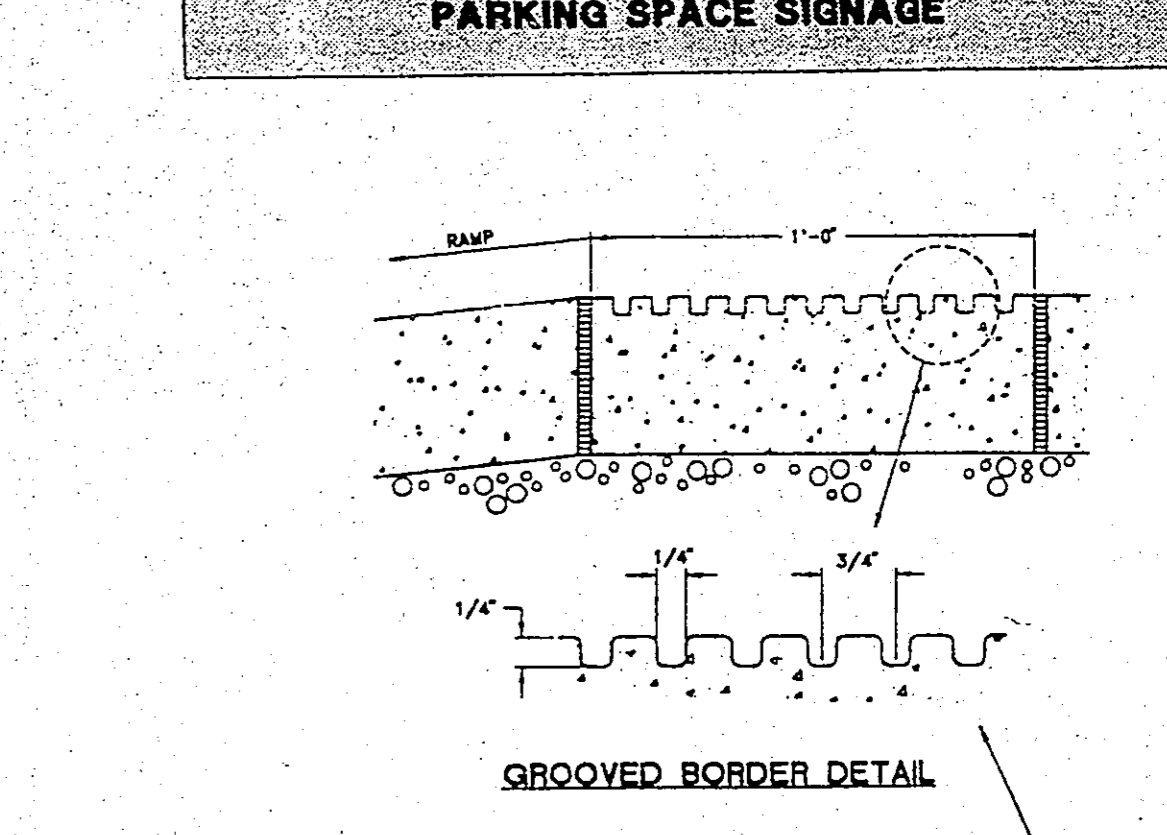
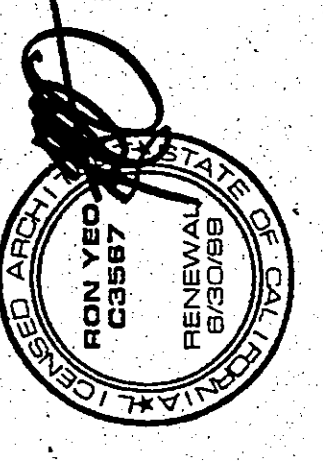
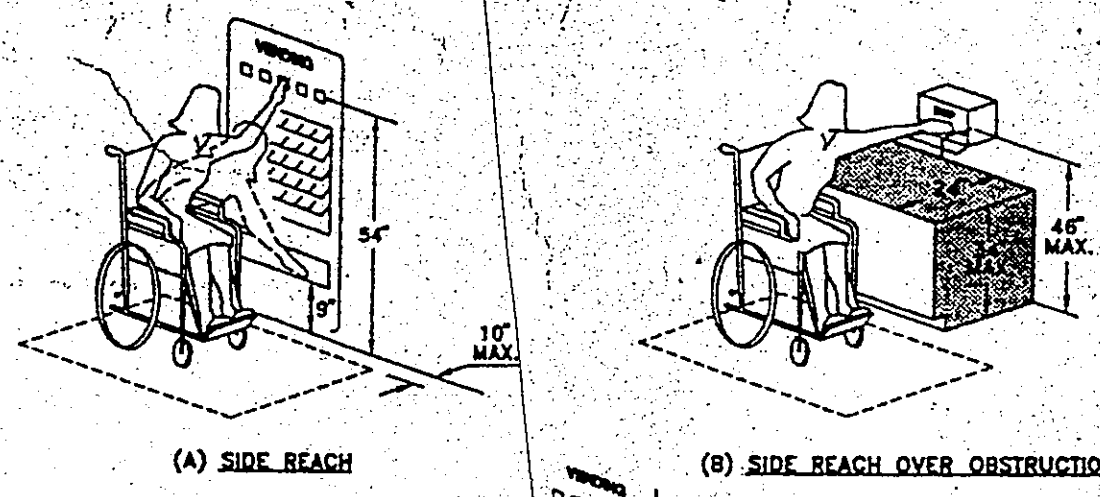


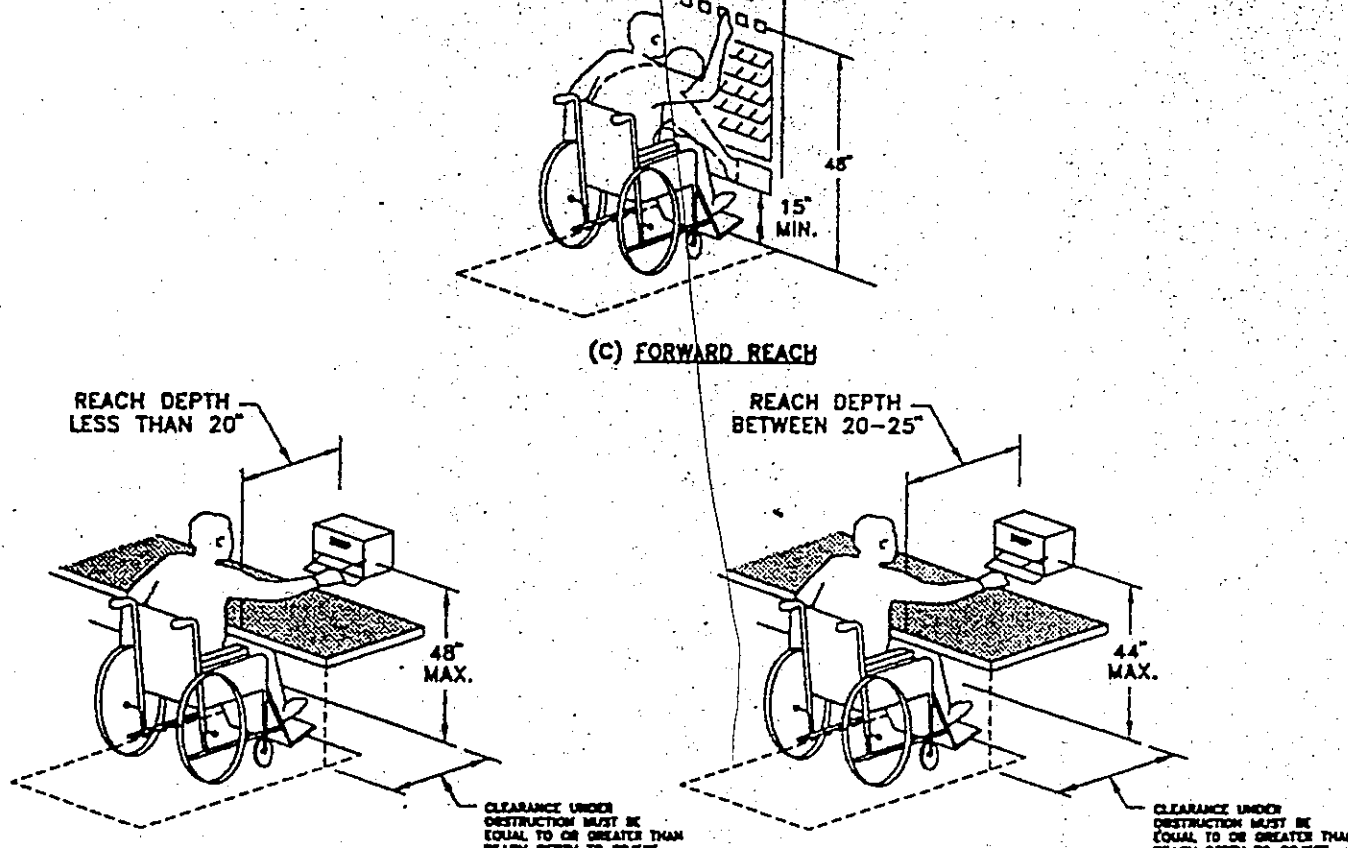
Fig.28

Fig.28
GROOVED BORDERS / DETECTABLE
WARNINGS ON CURB AND CURB-CUT RAMPS



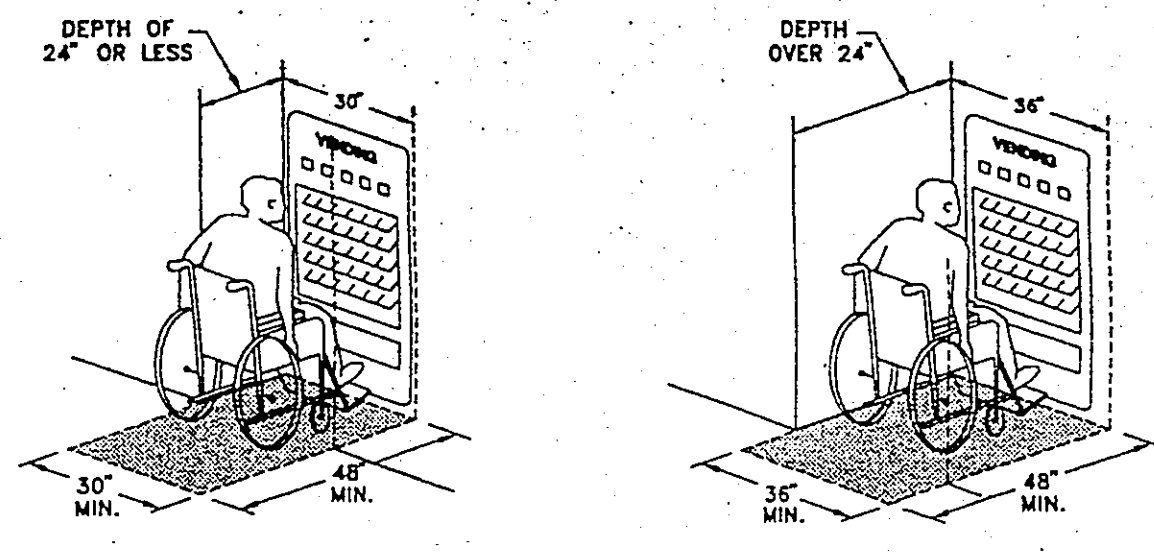


(A) SIDE REACH (B) SIDE REACH OVER OBSTRUCTION

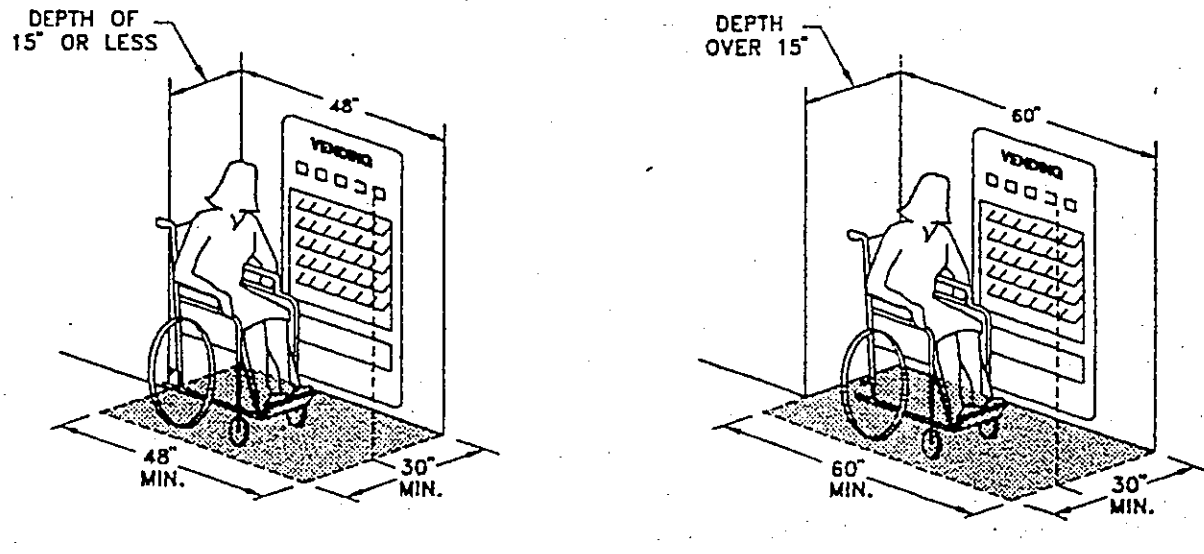


(C) FORWARD REACH (D) FORWARD REACH OVER OBSTRUCTIONS

CONTROLS AND OPERATING MECHANISMS, VENDING MACHINES



(A) FORWARD APPROACH TO OBJECTS WITHIN ALCOVES



(B) SIDE (PARALLEL) APPROACH TO OBJECTS WITHIN ALCOVES

CONTROLS AND OPERATING MECHANISMS, VENDING MACHINES

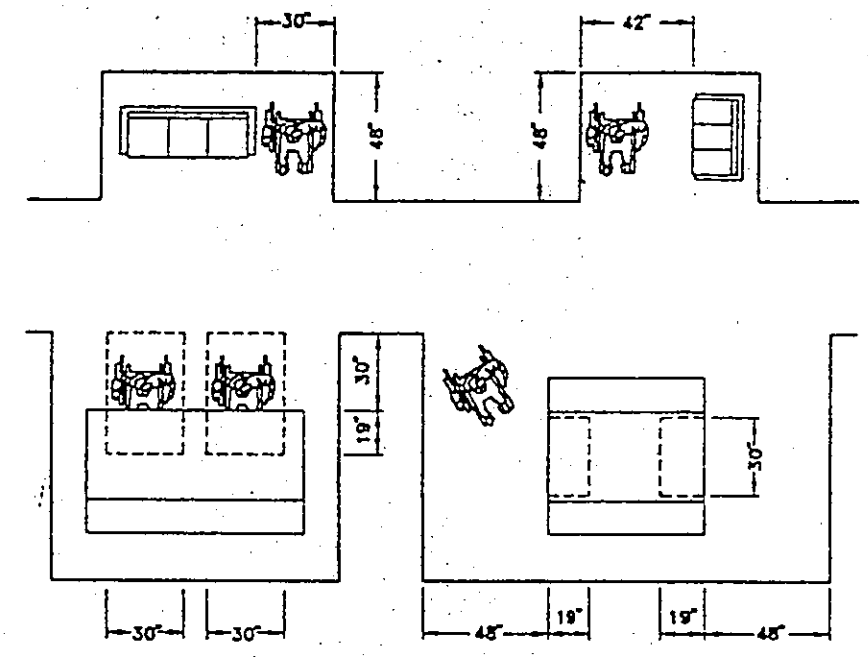


Fig. 106-A MINIMUM CLEARANCES FOR SEATING AND TABLES

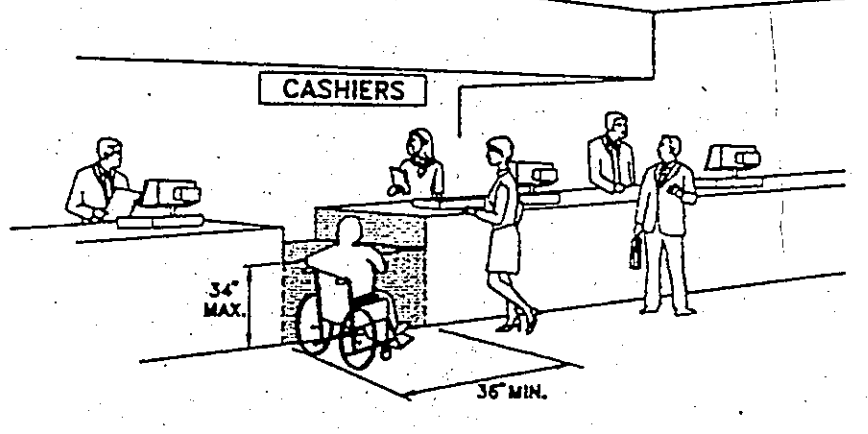


Fig. 106-B MULTIPLE TRANSACTION STATIONS
FIXED OR BUILT-IN SEATING, TABLES & COUNTERS

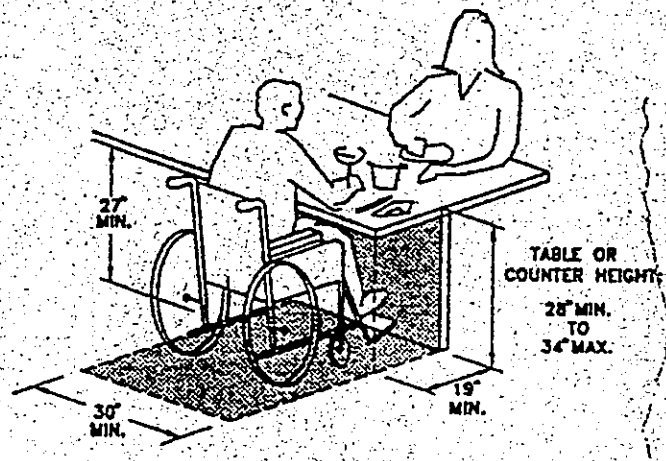


Fig. 105 REQUIRED KNEE CLEARANCES

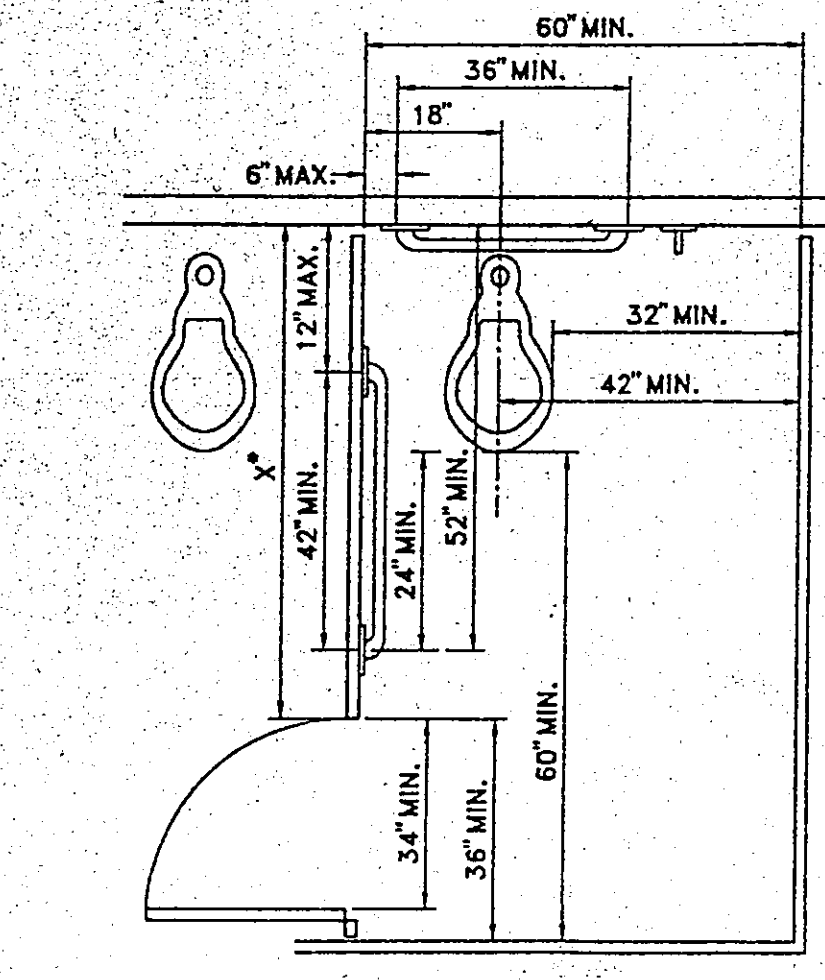
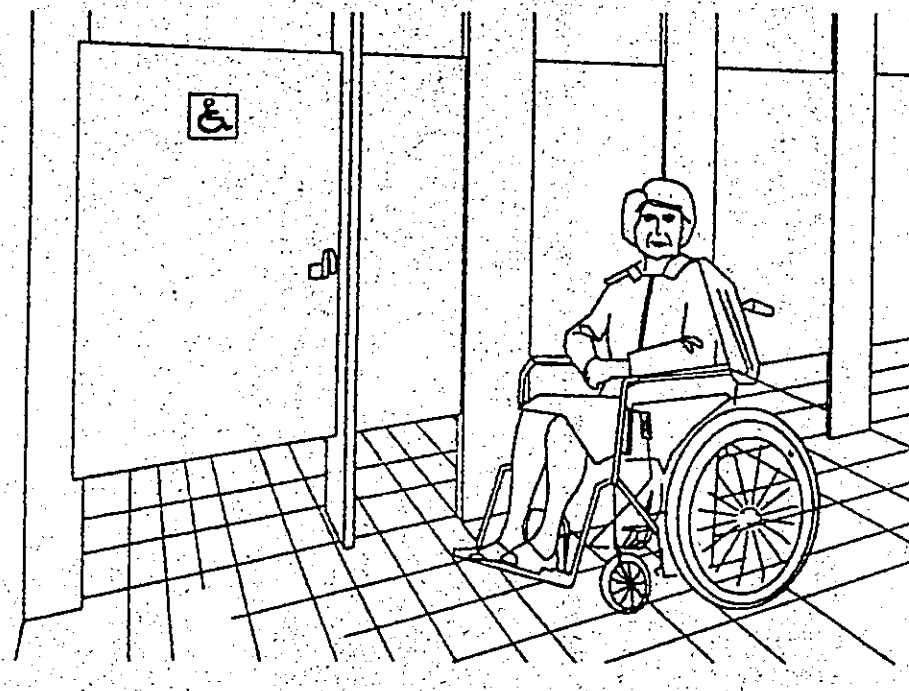


Fig. 81 STANDARD ACCESSIBLE TOILET STALL (DOOR OPENING AT SIDE OF STALL)

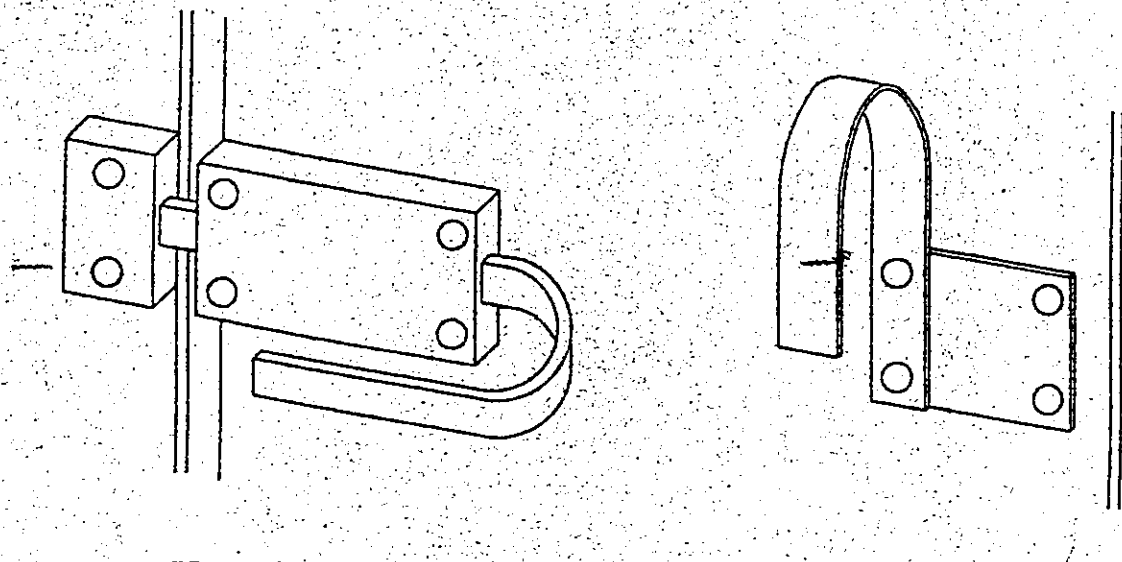


Fig. 84-B ACCESSIBLE STALL DOOR HARDWARE

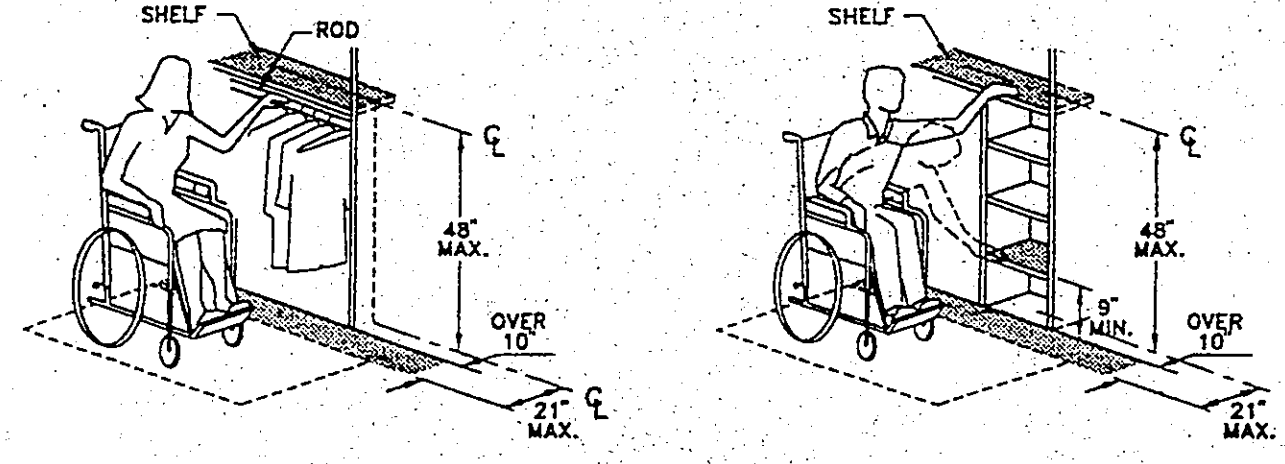


Fig. 97 SIDE REACH (DEPTH OVER 10')

STORAGE

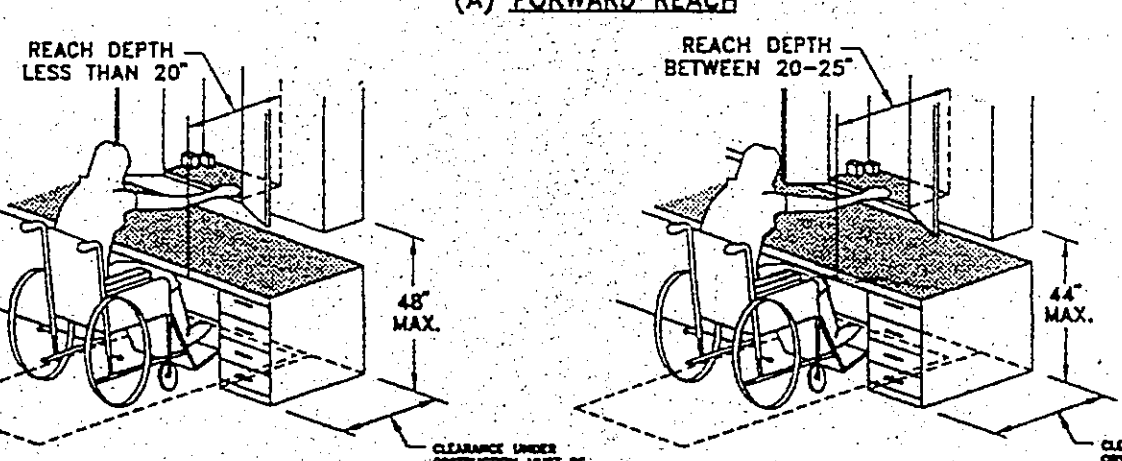
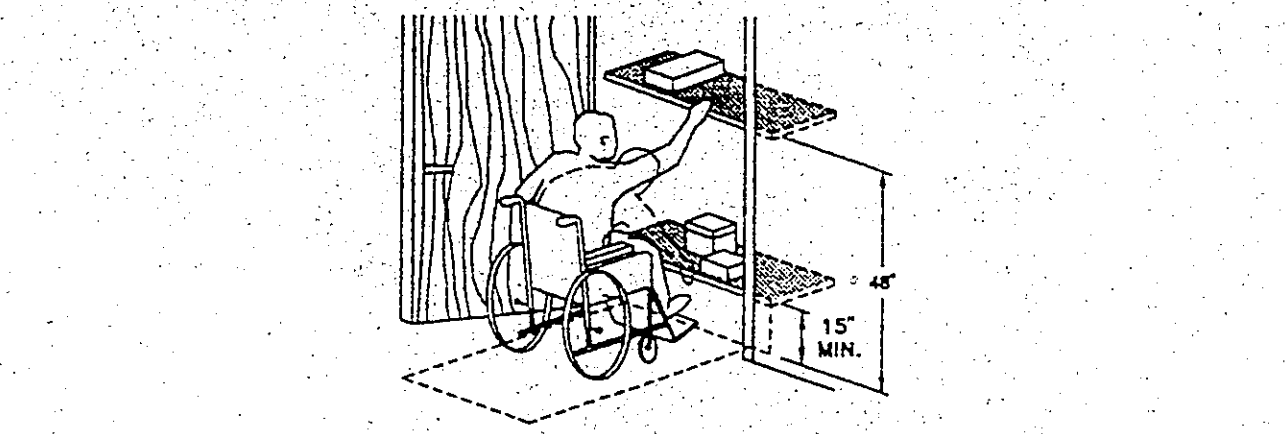


Fig. 98 STORAGE
(A) FORWARD REACH (B) FORWARD REACH OVER OBSTRUCTIONS
(C) SIDE REACH (REACH DEPTH 10' OR LESS) (D) SIDE REACH OVER OBSTRUCTIONS

MULTIPLE ACCOMMODATION TOILETS

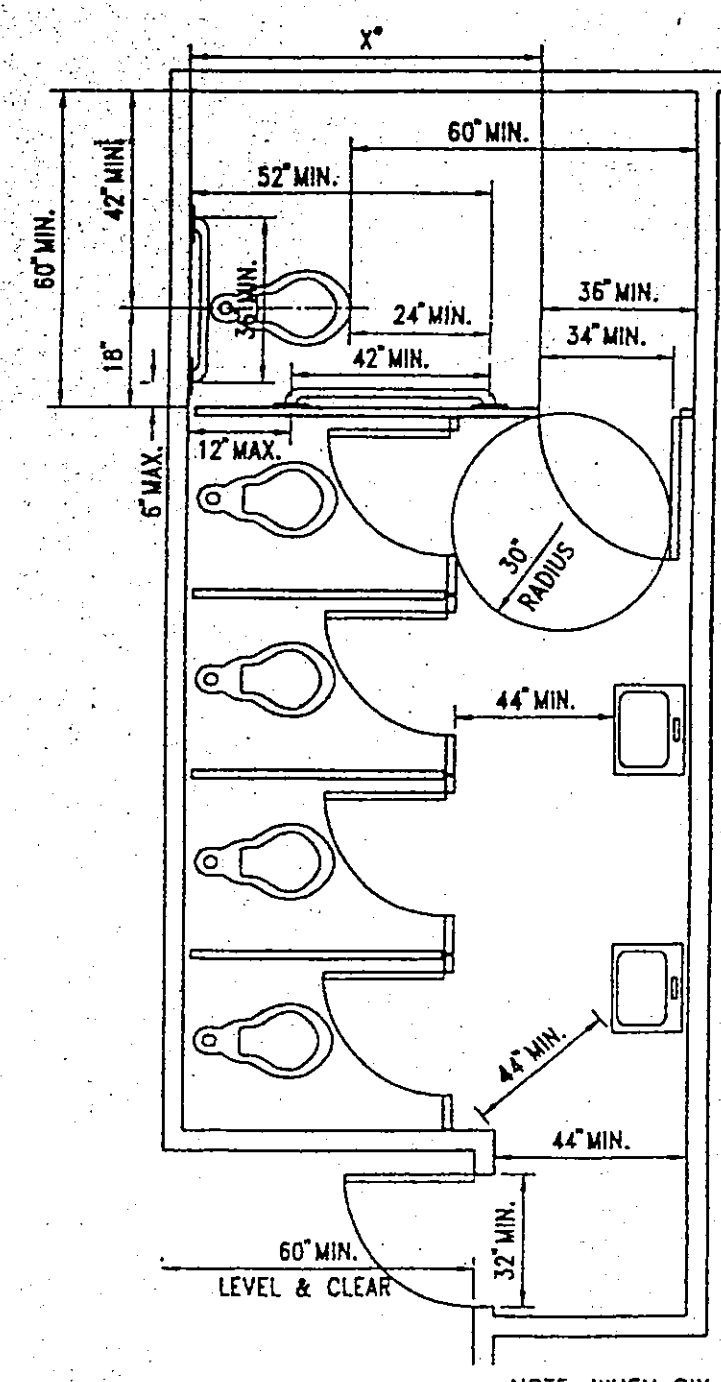


Fig. 82 MULTIPLE ACCOMMODATION TOILETS

MULTIPLE ACCOMMODATION TOILETS

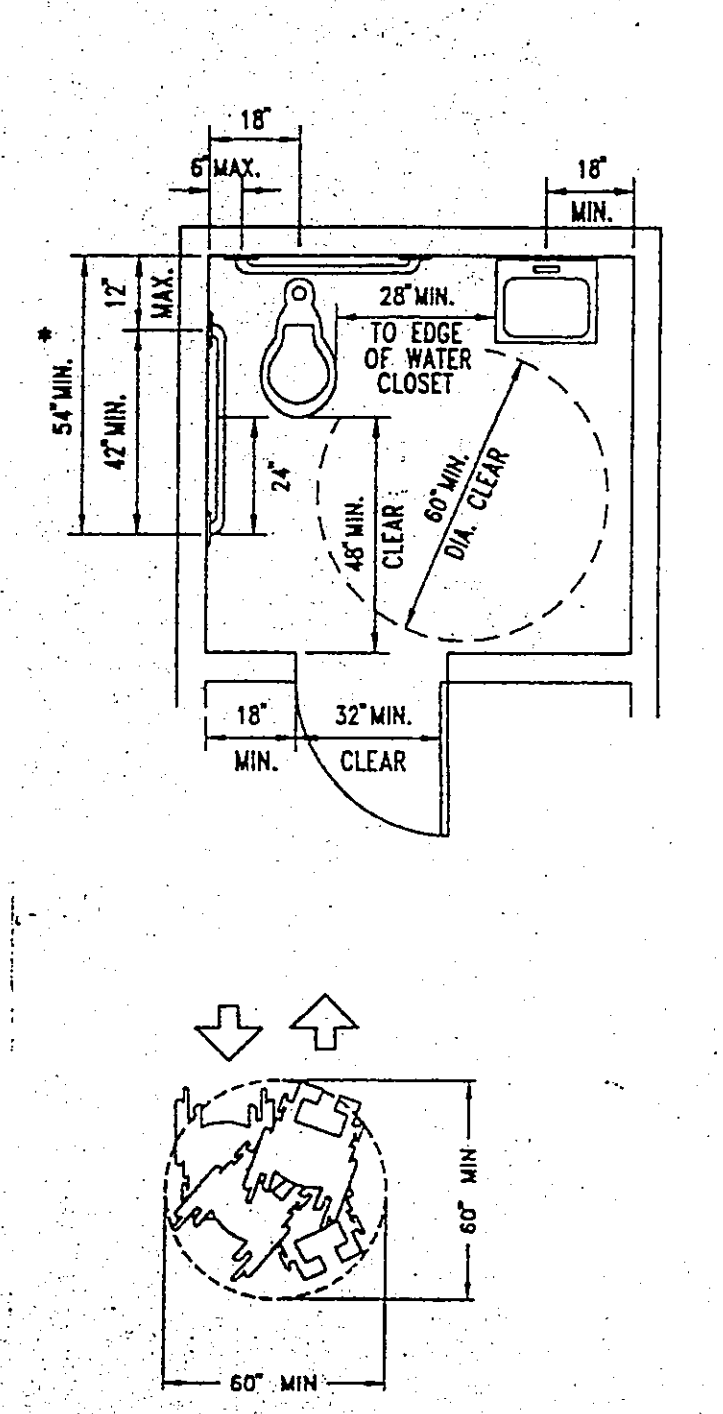


Fig. 84 SINGLE ACCOMMODATION TOILET

SINGLE ACCOMMODATION TOILET

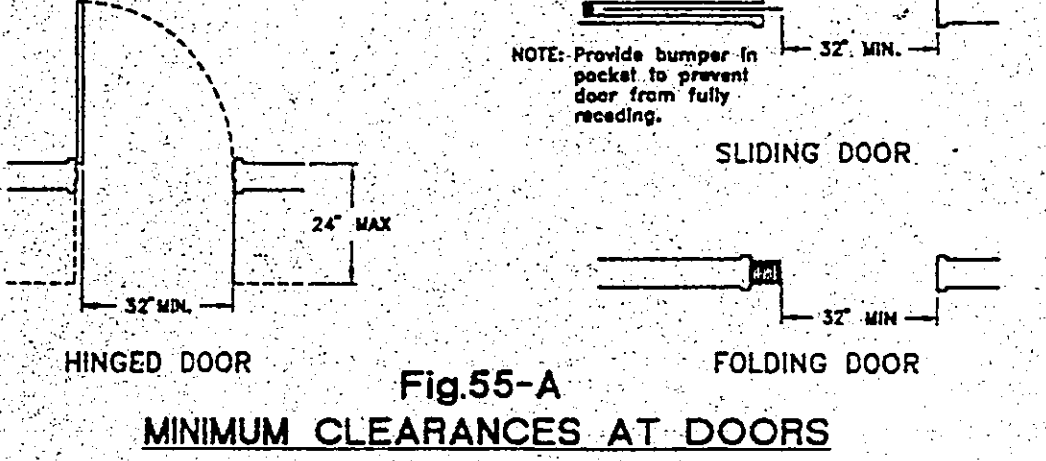


Fig. 55-A MINIMUM CLEARANCES AT DOORS

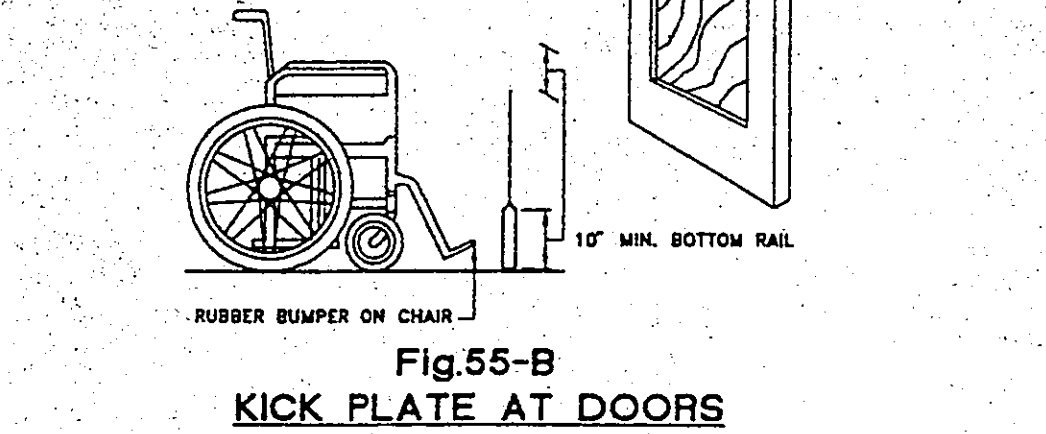


Fig. 55-B KICK PLATE AT DOORS

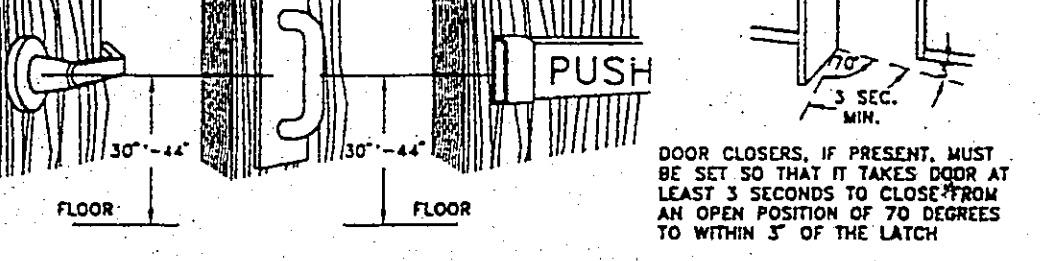


Fig. 55-C ACCEPTABLE DOOR HARDWARE & MOUNTING HEIGHTS

DOORS

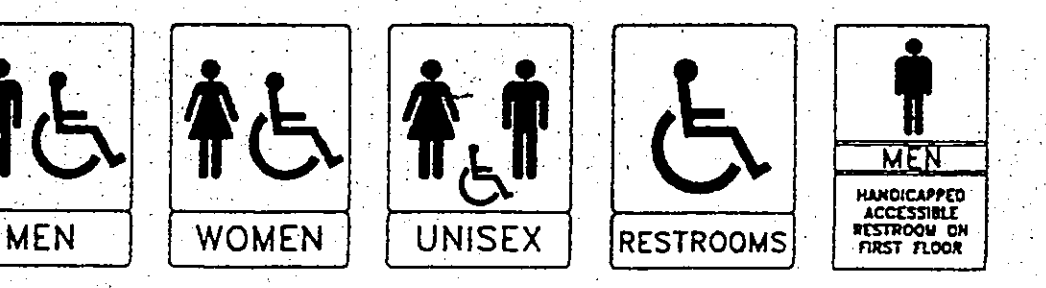


Fig. 55-D DOOR CLOSERS

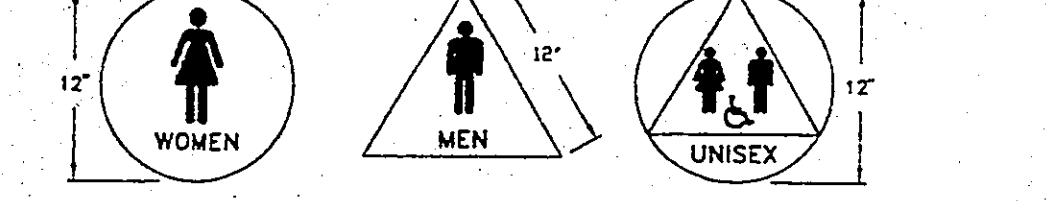


Fig. 78 IDENTIFICATION SYMBOLS FOR SANITARY FACILITIES

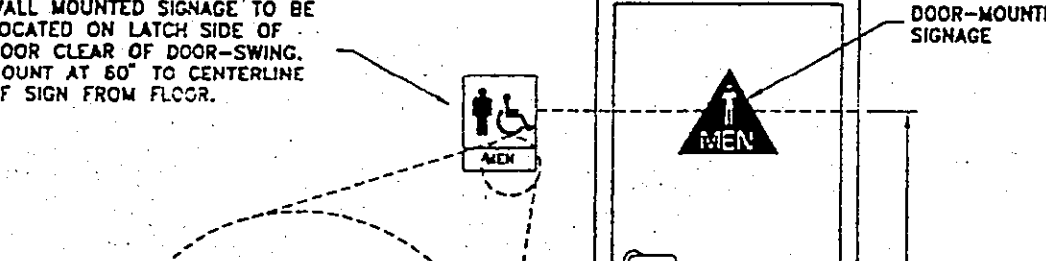


Fig. 78 IDENTIFICATION SYMBOLS FOR SANITARY FACILITIES

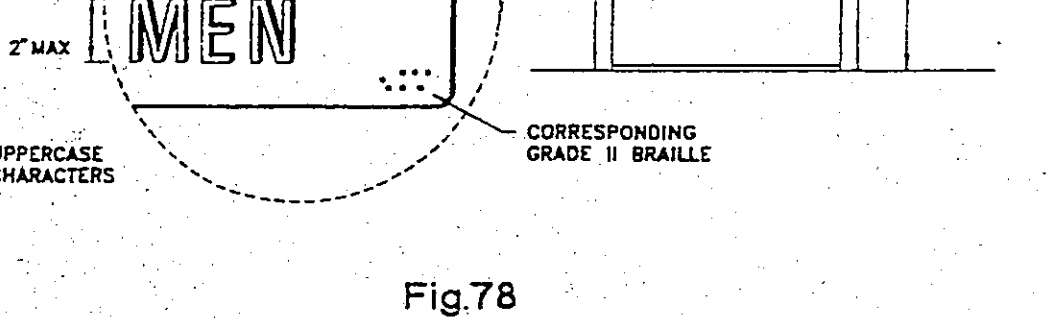


Fig. 78 IDENTIFICATION SYMBOLS FOR SANITARY FACILITIES

IDENTIFICATION SYMBOLS FOR SANITARY FACILITIES

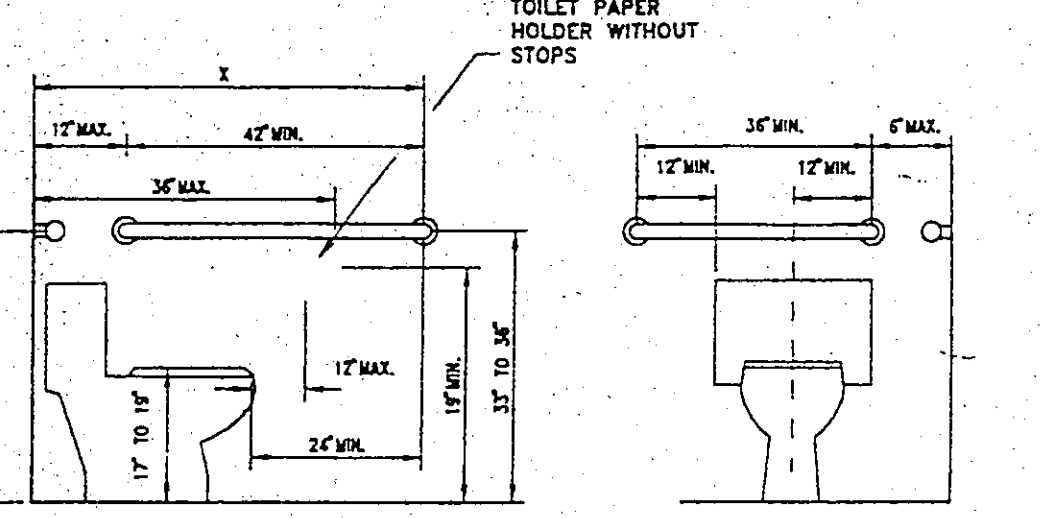


Fig. 80 WALL-MOUNTED WATER CLOSETS

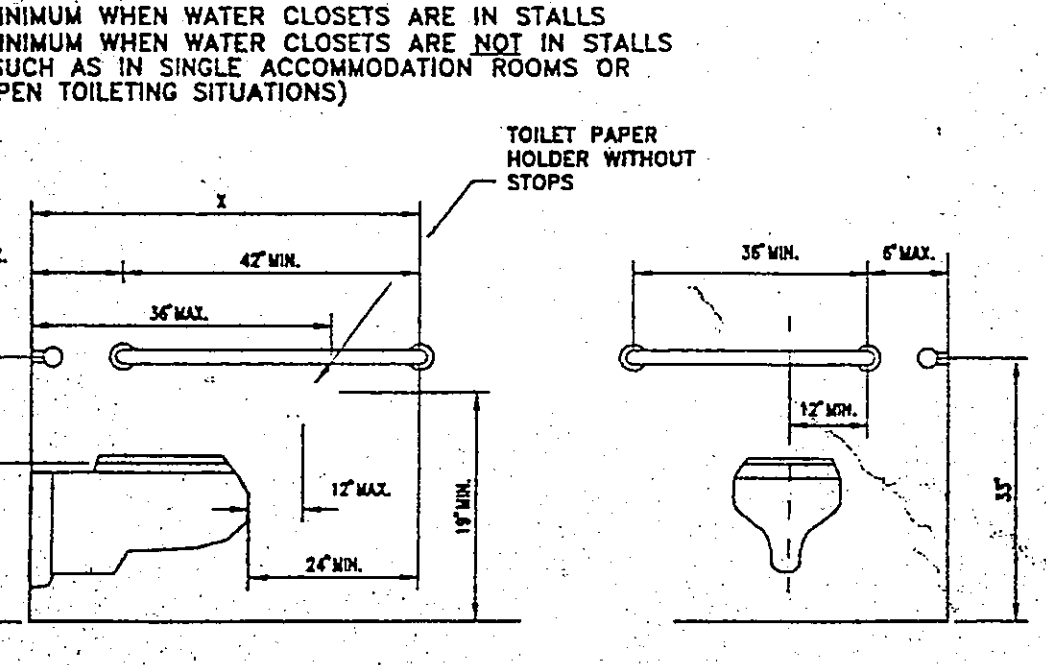


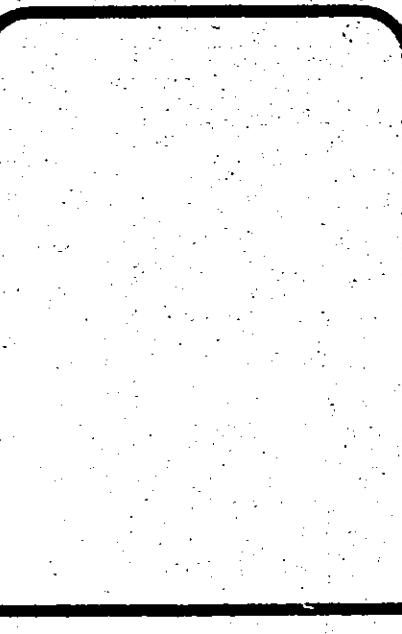
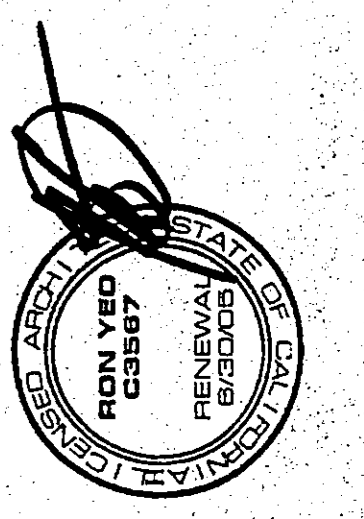
Fig. 80 WALL-MOUNTED WATER CLOSETS

WALL-FLOOR-MOUNTED WATER CLOSET DETAILS



text
dimension
wall
door
window
rftwork
hatchfill
border
detail
door
door
door
door

RON YEO, FAIA ARCHITECT, INC.
500 JASMIN AVENUE, CORONA, DEL MAR
CALIFORNIA 92625 P: 949-444-8111 F: 949-444-0449
PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



12/23/03 update revisions

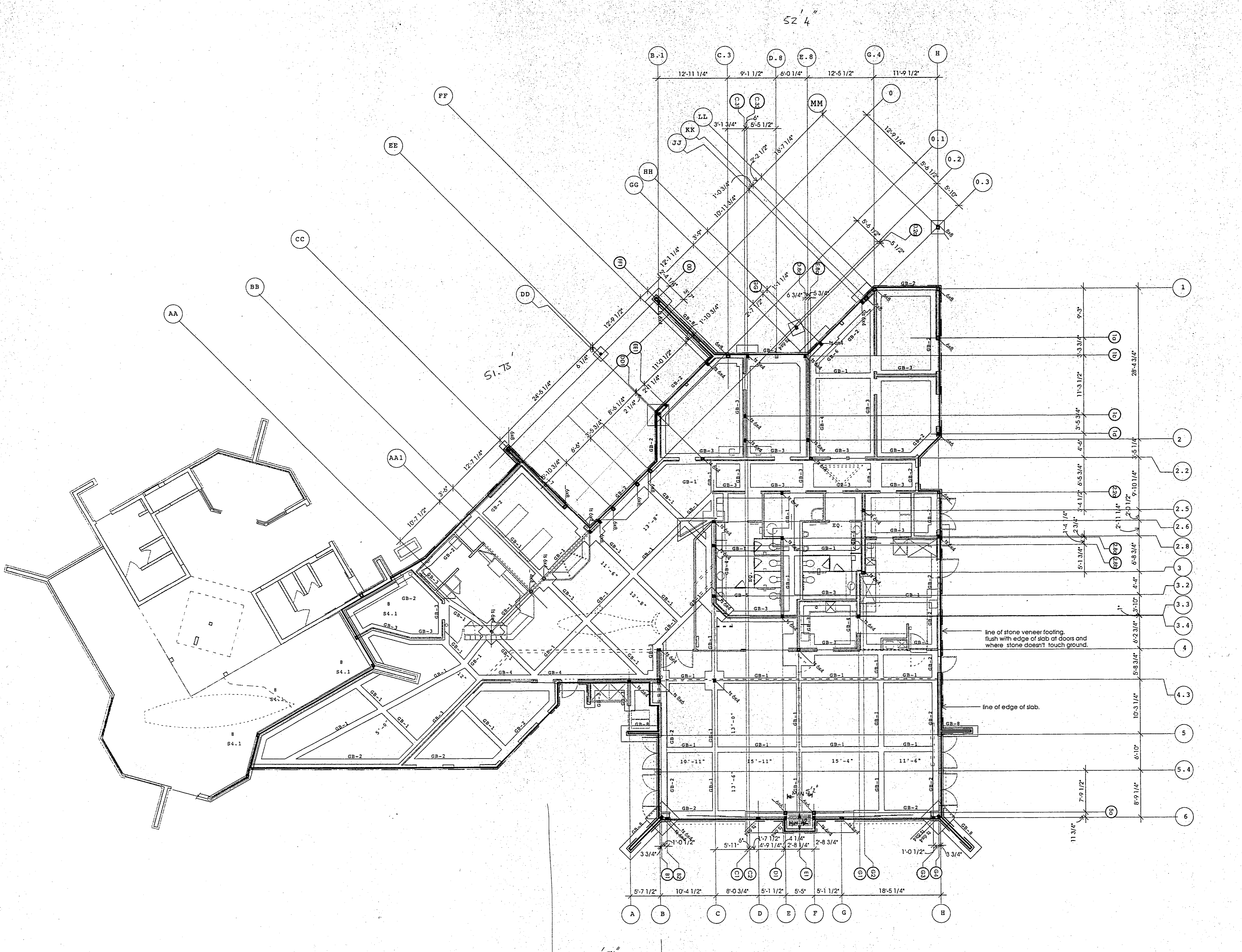
**POINT VICENTE INTERPRETIVE
CENTER EXPANSION**
31501 Palms Verdes Drive West
Rancho Palms Verdes, CA

**Dimensioned
Foundation
Anchorbolt
Plan**

DRAWN	FM/MS
CHECKED	RY
DATE	2/1/99
SCALE	1/8" = 1'-0"
JOB NO.	95-120
SHEET	

D-6

32 OF 69 SHEETS



2' 8 3/4"

88' 11"

These drawings do not contain the necessary computations for construction safety.
No part of these drawings may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without the prior written permission of Ron Yeo, Architect, Inc.

STRUCTURAL STEEL (05120)

- All workmanship and materials shall conform to the latest edition of the AISC Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings.
- Structural steel shall conform to ASTM A 992, unless otherwise noted.
- Steel pipes shall conform to ASTM A 53, Grade "B".
- Structural steel tubing shall conform to ASTM A 500, Grade "B", Fy = 46 KSI.
- Machine bolts and anchor bolts shall be Grade "A" conforming to ASTM A 307, unless otherwise noted.
- Nuts for machine bolts shall conform to ASTM A 563, Hex Grade A.
- High strength bolts shall conform to ASTM A 325.
- Nuts for high-strength bolts shall be heavy hex, Grade C, conforming to ASTM A 563.
- Shop drawings for structural and miscellaneous steel shall be submitted for review prior to fabrication.
- Non-shrink grout shall have a minimum compressive strength of 28 days of 2,000 PSI per ASTM C 109. Grouting of base plates prior to alignment of columns shall not be permitted.
- All welding shall be done by the shielded arc process using approved electrodes per AWS specification E70XX (low hydrogen electrodes). Welding shall conform to the latest edition of AWS D1.1 and shall be performed by certified welders qualified under the procedures contained therein.
- Welds identified as requiring continuous or periodic special inspection need not have special inspection when the welding is done in an approved fabricator's shop. However, the approved fabricator must submit a certificate of compliance in accordance with CBC Section 1701.7.
- Fabrication of structural steel shall be by an approved fabricator or fabrication shall be continuously inspected by a registered special inspector.
- Bolt holes in steel shall be drilled 1/16" larger diameter than nominal size of bolt used, except as noted otherwise.
- All steel exposed to weather or moisture conditions shall be hot dip galvanized after fabrication. Areas that have been field welded shall be coated with "ReGalv", "Galvalloy", or an approved equal.
- High-Strength Bolts where required.
 - High-strength bolts shall be installed, tightened, and inspected in strict accordance with ASTM A325. Threads shall be excluded from all shear planes. Contact surfaces or members to be bolted shall not be painted.
 - All high-strength bolts shall be installed in accordance with Paragraph 5E, "Tightening by Use of Direct Tension Indicators" of the Specifications for Structural Joints using ASTM A 325 or A 490 bolts, as approved by the Research Council on Riveted and Bolted Structural Joints, and endorsed by the American Institute of Steel Construction. Load indicator washers shall be used as the approved direct tension indicators and shall be installed as follows:
 - The load indicator washer shall be placed on the bolt with the protrusions facing the bolt head.
 - The assembly shall be fitted into place and the nut installed. Hardened round washers shall be used under the nut to reduce frictional resistance.
 - Sufficient bolts in the joint shall be engaged to draw the connecting members into close contact, then all bolts shall be tightened until the average gap between the face of the load indicator washer and the underside of the bolt head is reduced to at least 0.015 inch.
 - Tightening shall progress systematically from the most rigid part of the joint to its free edges until the load indicator washers on all bolts are closed to at least the required gap. The gap may be checked with a feeler gauge. Complete closure of the gap should be avoided, but is not necessarily reason for rejection.
 - When it is required to use the load indicator under the nut, a hardened round washer shall be fitted between the load indicator washer and the nut. After the bolt is installed in the connection, the load indicator washer shall be placed on the bolt with the protrusions facing the nut; the hardened round washer shall be placed against the load indicator washer protrusions before the nut is installed. For this assembly, tightening shall be continued until the average gap between the load indicator washer and the hardened round washer is closed at least 0.015 inch if the bolt head is turned during installation, and to at least 0.010 inch if the nut is turned in accordance with the procedure given below.
 - If the load indicator washer must be placed under the head and the head must be turned, then a hardened round washer must be used between the load indicator washer protrusions and the bolt head. For this fastener assembly, the average gap between the load indicator washer and the hardened round washer shall be closed to 0.010 inch.

FC-N Full CORE

NELSON WELDED STUDS

- Material:

Anchor studs shall be Nelson granular Flux-filled headed anchor (CBO #2614) studs or an approved equal and shall be made from C-1015 cold rolled steel and shall conform to ASTM Specification A-108, grades 1015-1020 with minimum tensile strength of 60,000 PSI. Stud welding inspection and testing shall conform to AWS D1.1-75.
- Installation:

The studs shall be automatically end welded in accordance with the manufacturer's recommendations in such a manner to provide complete fusion between the end of the stud and the plate. There should be no porosity or evidence of lack of fusion between the welded end of the stud and the plate. The stud shall decrease in length during welding approximately 1/8" for 5/8" and under, and 3/16" for over 5/8" diameter. Welding shall be done only by qualified welders approved by the welding inspector.
- Inspection:

Inspection of all the shop and field welding operations for the automatic end welded studs shall be made by a qualified welding inspector (approved by the governing agency). The type and capacity of the welding equipment shall be checked and approved by a welding inspector. At the beginning of each day's work, a minimum of 2 test stud welds shall be made with the equipment to be used to metal which is the same as the actual work piece. The test studs shall be subjected to a 90° bend test by striking them with a heavy hammer. After the above test, the weld section shall not exhibit any tearing out or cracking.

WOOD TRUSSES (06190)

- Prefabricated wood joists, open web joists, and bridging shall be manufactured and erected in accordance with the Truss Joist Manufacturer's Corporation or approved equal manufacturer. The truss manufacturer shall submit truss layout drawings, details, and calculations to the structural engineer for approval prior to fabrication.
- Prefabricated wood joist shown on these plans have been calculated and detailed for the specific truss shown. In addition, the manufacturer shall furnish to the Structural Engineer a certificate of compliance indicating compliance with CBC and which also identifies the joists delivered for this specific project. Such certificate of compliance shall be furnished prior to installation.

If any substitution is proposed by the contractor, new calculations will have to be prepared, the details may have to be altered, and new plans have to be issued. The contractor shall provide an allowance to cover the engineers fees to alter the approved plans and reissued for construction.
- All hangers supporting suspended piping, etc., hung from the bottom chords of joists shall be located at the panel points of the joists.
- All lateral bracing shown in these drawings are schematic only. The truss manufacturer shall submit bracing layout and details to the engineer for approval prior to fabrication.
- All prefabricated wood joist supporting mechanical equipment shall be designed by the truss manufacturer and submitted to the structural engineer for approval.
- See the truss manufacturer's drawings for truss flange sizes and material specifications, and grade of lumber.
- See the truss manufacturer's drawings for truss tubular web specifications and sizes, and connection pin specifications and sizes.
- Provide bridging for open web trusses at 8'-0" o.c. max. for floors and 12'-0" o.c. max. for roofs.
- See the truss manufacturer's drawings for support of piping at open web trusses.
- The fabrication of trusses and other assemblies constructed using wood and metal members, or using light metal plate connections, shall be continuously inspected by a qualified inspector approved by the enforcement agency. The inspector shall furnish the Architect, Structural Engineer and the enforcement agency with a report that the lumber species, grades and moisture content; type of glue, temperature and gluing procedure; type of metal members and metal plate connectors; and the workmanship conform in every material respect with the duly approved plans and specifications. Each inspected truss shall be stamped by the inspector with an identifying mark.
- Wood joist top flanges must be capable of receiving two rows of diaphragm boundary nailing per the plans without splitting.
- Wood trusses are designed assuming that the roofing consists of concrete tiles (12 psf max.). Contractor and/or wood truss manufacturer shall confirm maximum concrete tile weights before wood trusses are manufactured.

CONCRETE MASONRY UNITS (04300)

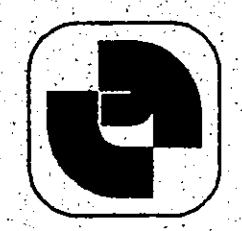
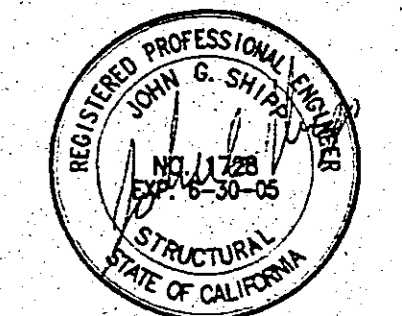
- Concrete masonry units shall be normal weight open end units conforming to ASTM C 90, Grade N-1, with maximum linear shrinkage of 0.06% (F'm = 1,500 PSI). (Medium weight = 115 PCF). Minimum Compressive Strength at 28 Days for CMU shall be as follows:

	Allowed For Design	Actual Min. Strength Of Units
Typ. U.N.O. High Strength CMU	f'm = 1,500 PSI f'm = 3,000 PSI	f'm = 2,000 PSI f'm = 3,750 PSI
- Mortar shall be type "S" conforming to CBC Table 21-A. Admixture shall be 1 pint of Red Label Suxonem per sack of cement. Mortar shall have a minimum compressive strength at 28 days as follows:

Typ. U.N.O. High Strength CMU	1,800 PSI 3,600 PSI
-------------------------------	------------------------
- Grout shall be composed of the following ratio by volume: 1-part portland cement, 3-parts sand, 2-parts pea gravel, and sufficient water for pouring without segregation of grout constituents. Admixture shall be Sika Grout Aid Type II, weight shall be a maximum of 105 PCF. Grout shall have a minimum compressive strength of 28 days as follows:

Typ. U.N.O. High Strength CMU	2,000 PSI 3,750 PSI
-------------------------------	------------------------
- All horizontal reinforcement shall be placed in bond beam or lintel beam units. The openings these webs for horizontal reinforcement shall be a minimum of 3 inches by 3 inches.
- When grouting is stopped for one hour or longer, horizontal construction joints shall be formed by stopping the grout pour 1-1/2" below top of the uppermost unit.
- All bond beam block shall be "Deep Cut" units.
- All grout shall be consolidated with a mechanical vibrator.
- Cement shall be as specified for concrete.
- See notes under "Reinforcing Steel" for requirements of reinforcing bars.
- Provide one bar diameter (a minimum of 1") grout between main reinforcing and masonry units.
- For low lift grouted construction, maximum grout pour height shall be 4 feet. Units shall be laid a maximum of 4'-0" before grouting.
- High lift grouted construction may be used in conformance with project specifications and CBC Section 2104.6, and state of California Interpretive Regulation IR 24-4.
- Provide inspection and cleanout holes at base of vertical cells having grout lifts in excess of 4'-0" in height.
- All cells in concrete blocks shall be filled solid with grout.
- Cells shall be in vertical alignment. Dowels in footings shall be set to align with cores containing reinforcing steel.
- Refer to architectural drawings for surface and height of units, laying pattern, and joint type.
- Sand shall be clean, sharp, well graded, and free from injurious amounts of dust, lumps, shale, alkali or organic material.
- Brick shall conform to ASTM C 62 and shall be Grade NW (F'm = 1,800 PSI) or better.

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 Fax (714) 734-4272



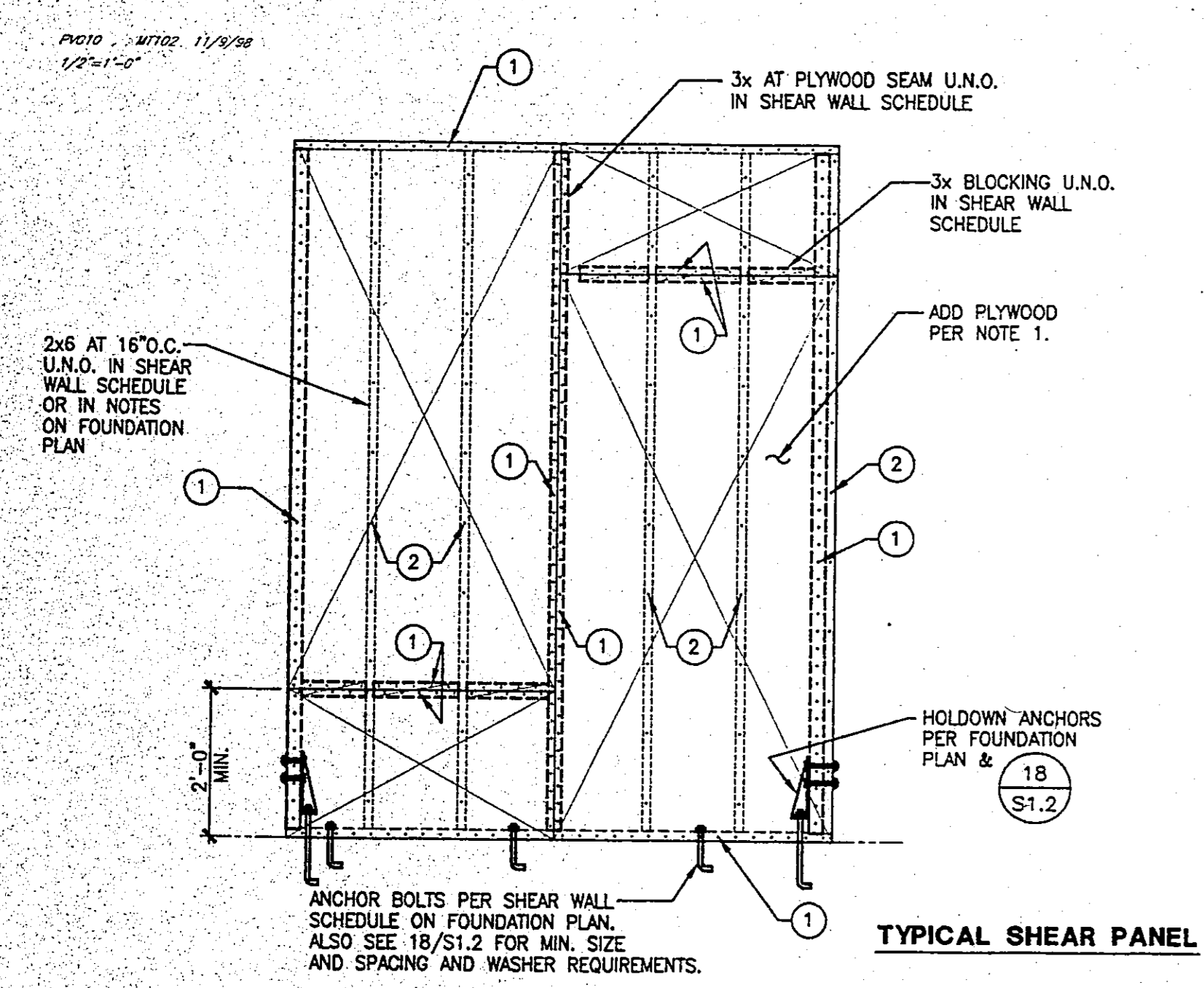
POINT VICENTE INTERPRETIVE CENTER EXPANSION
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GENERAL NOTES

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DATE
SCALE
JOB NO.
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These drawings do not contain the necessary components for construction.

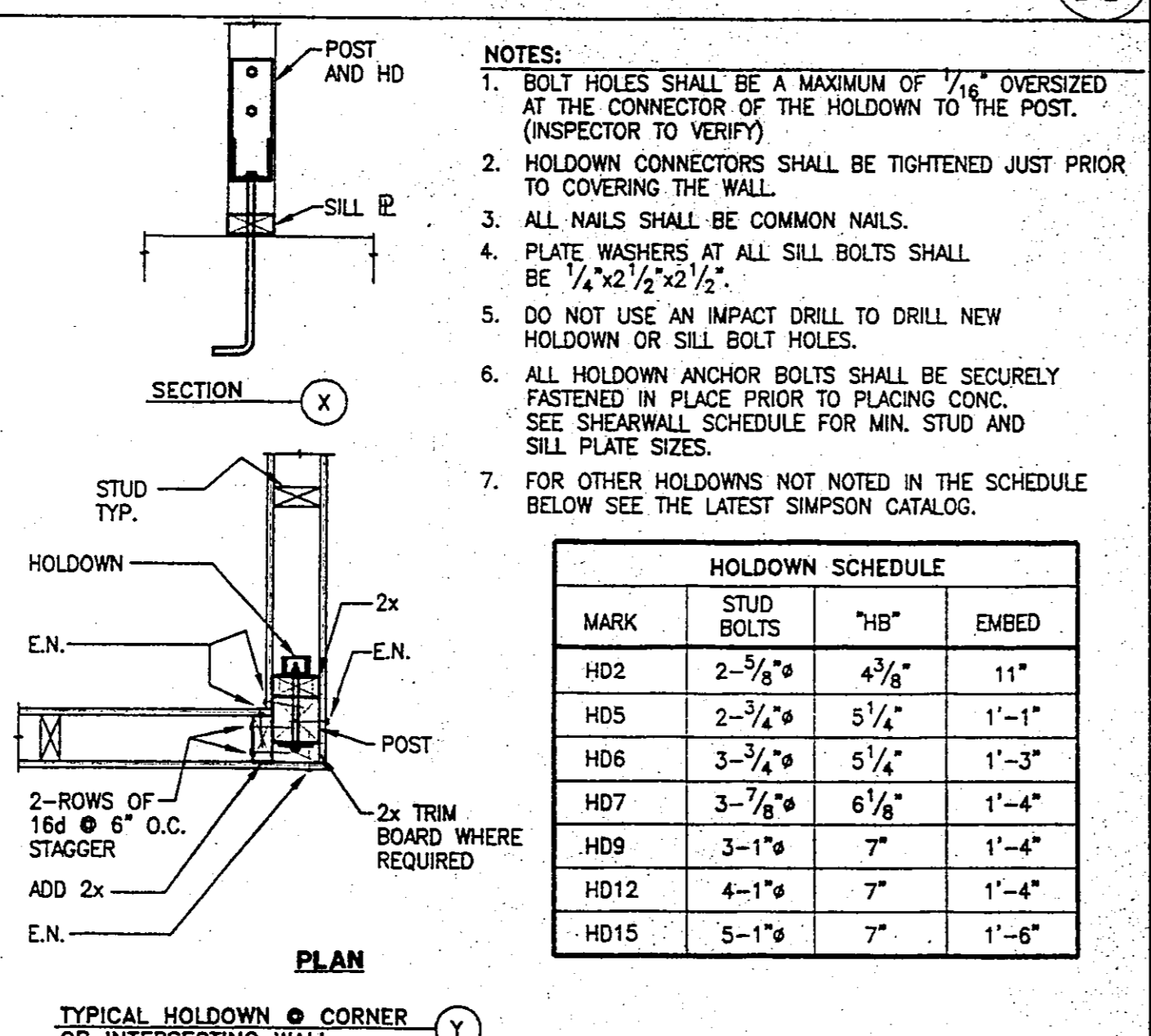
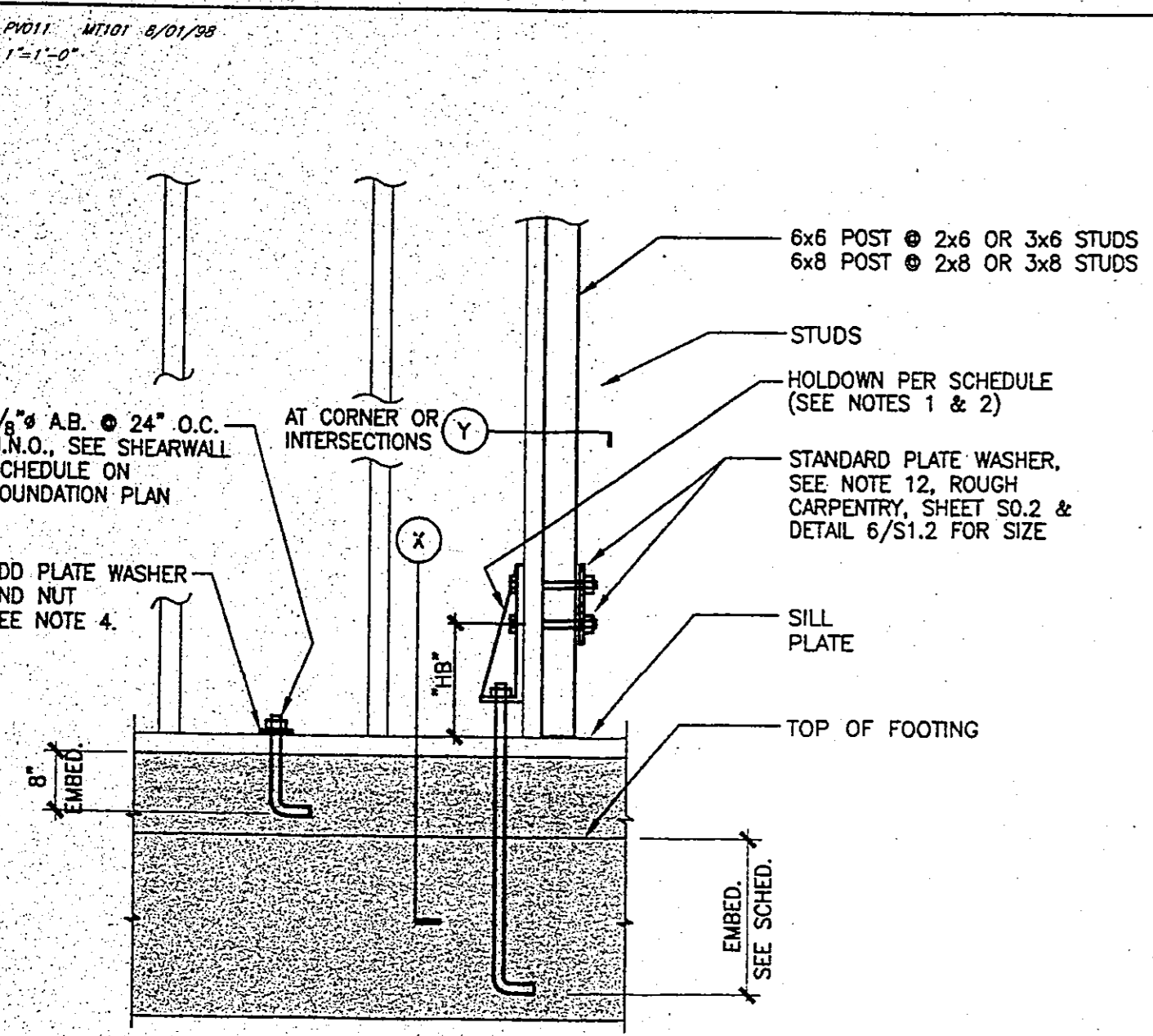
THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION.



- LEGEND:**
- ① EDGE NAILING, SEE SHEAR WALL SCHEDULE ON FOUNDATION PLAN
 - ② 10d NAILS @ 12" O.C. - FIELD NAILING
- NOTES:**
1. ALL PLYWOOD SHALL BE 1/2" STRUCT. I (24.0) 5 PLY. (BLOCKED)
 2. FACE GRAIN SHALL BE HORIZONTAL OR VERTICAL
 3. SEE PLAN FOR LOCATION OF SHEATHING
 4. BLOCK ALL EDGES OF PLYWOOD
 5. SHEAR WALL CALL-OUT APPLIES TO THE FULL LENGTH OF THE WALL SPECIFIED, U.N.O.
 6. ALL NAILS SHALL BE COMMON NAILS.
 7. SEE SCHEDULE ON FOUNDATION PLAN.

TYPICAL SHEAR PANEL

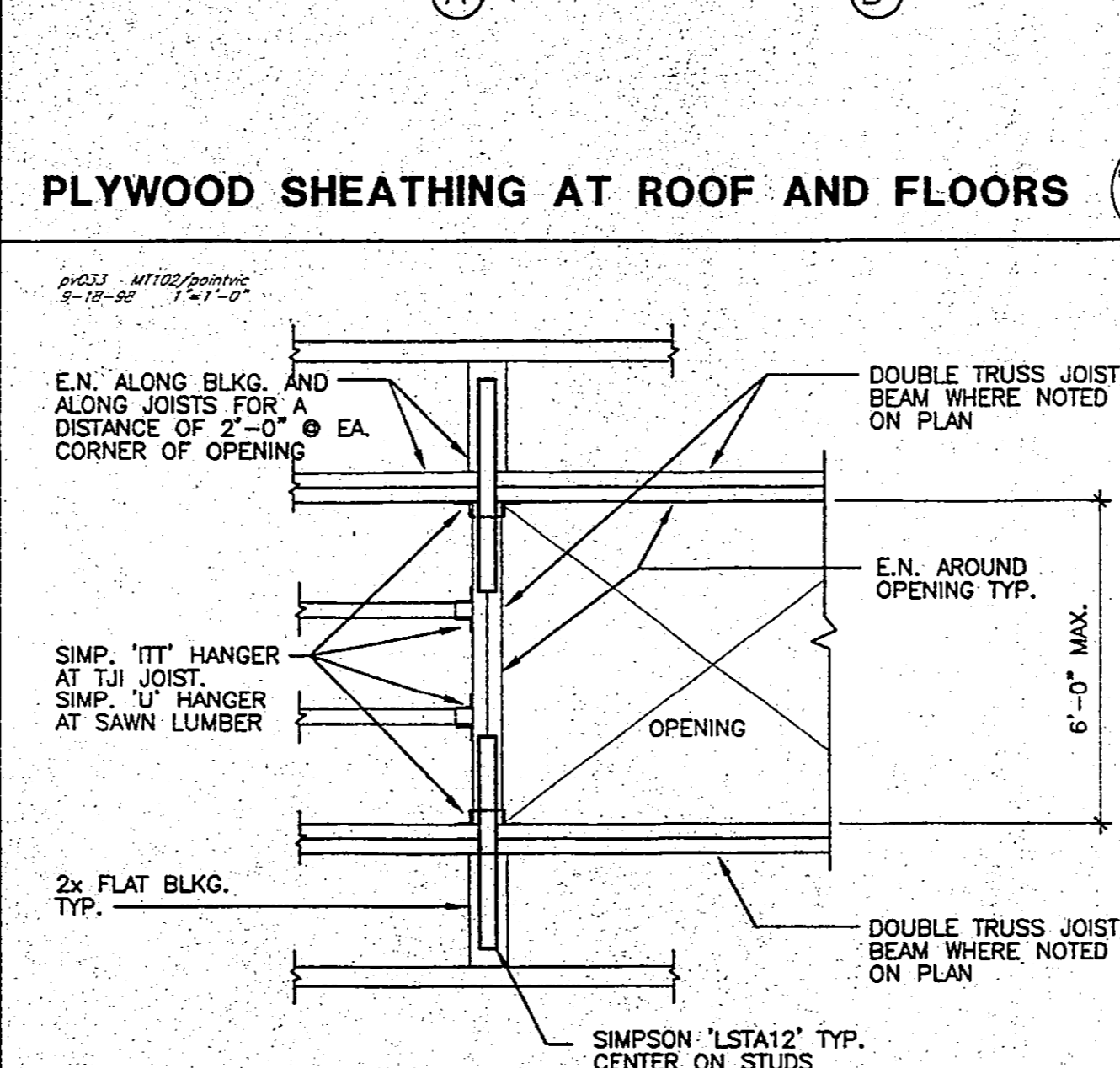
TYPICAL SHEARWALL ELEVATION



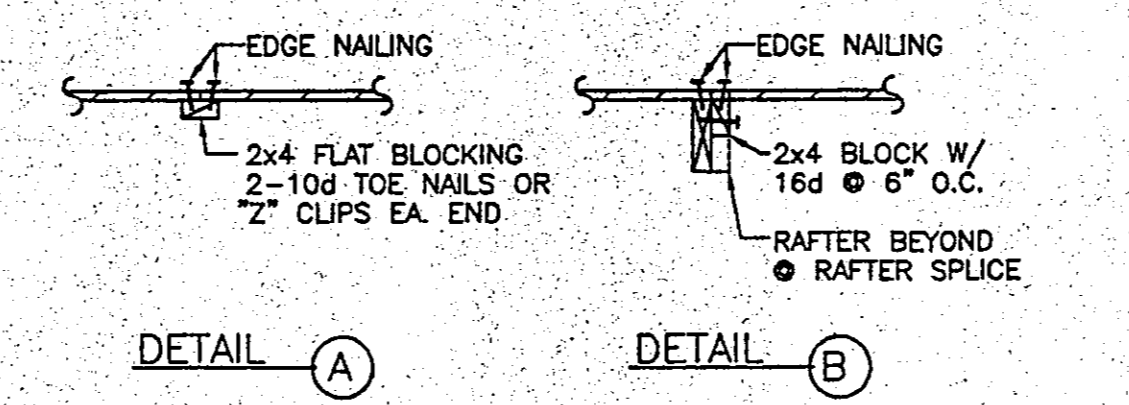
MARK	STUD BOLTS	"H"	EMBED
HD2	2-3/8"	4-3/8"	11"
HD5	2-3/4"	5-1/4"	1'-1"
HD6	3-3/4"	5-1/4"	1'-3"
HD7	3-7/8"	6-1/8"	1'-4"
HD9	3-1"	7"	1'-4"
HD12	4-1"	7"	1'-4"
HD15	5-1"	7"	1'-6"

TYPICAL HOLDOWN ANCHORS AND SILL BOLT DETAIL AT SHEARWALLS

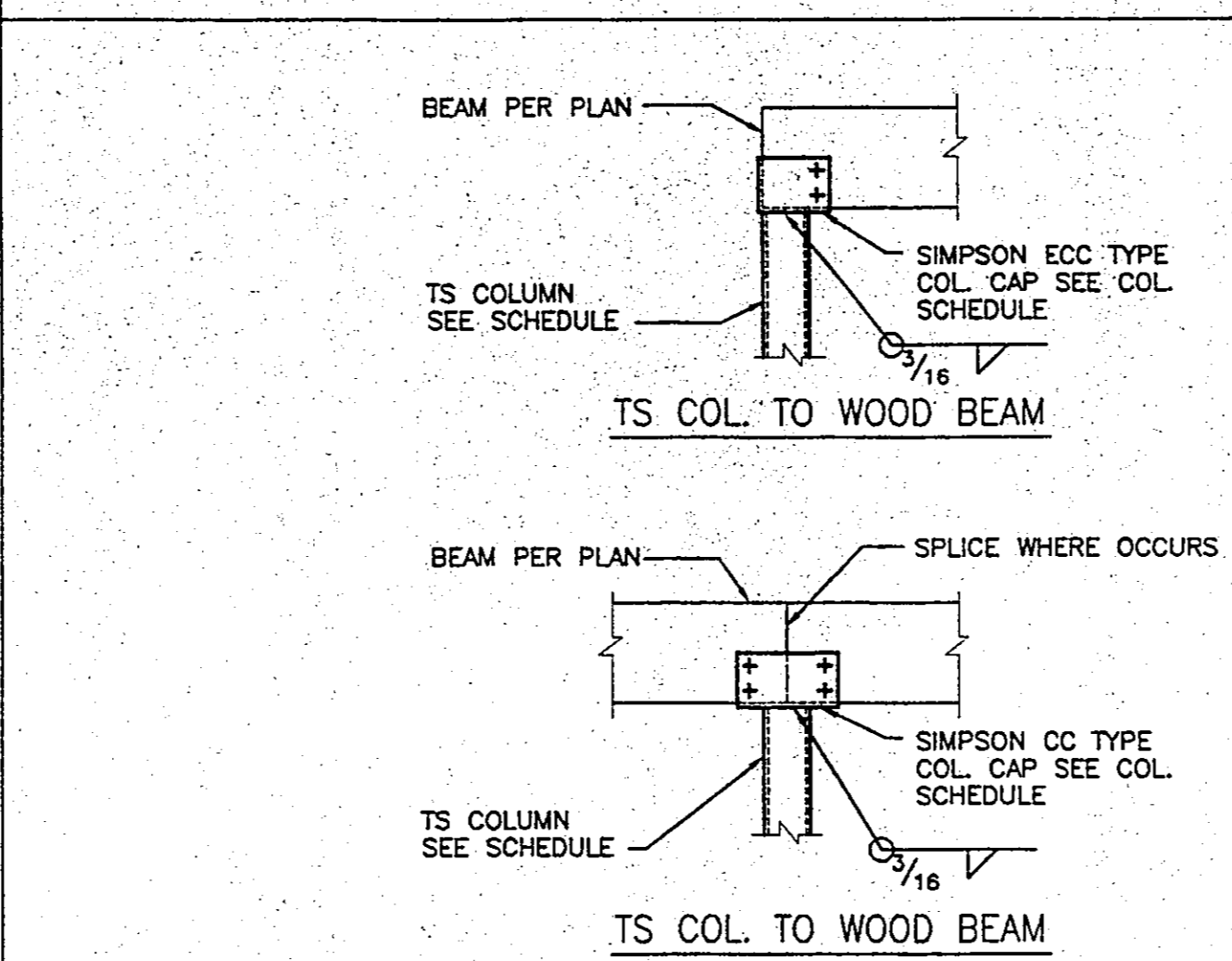
PLYWOOD SHEATHING AT ROOF AND FLOORS



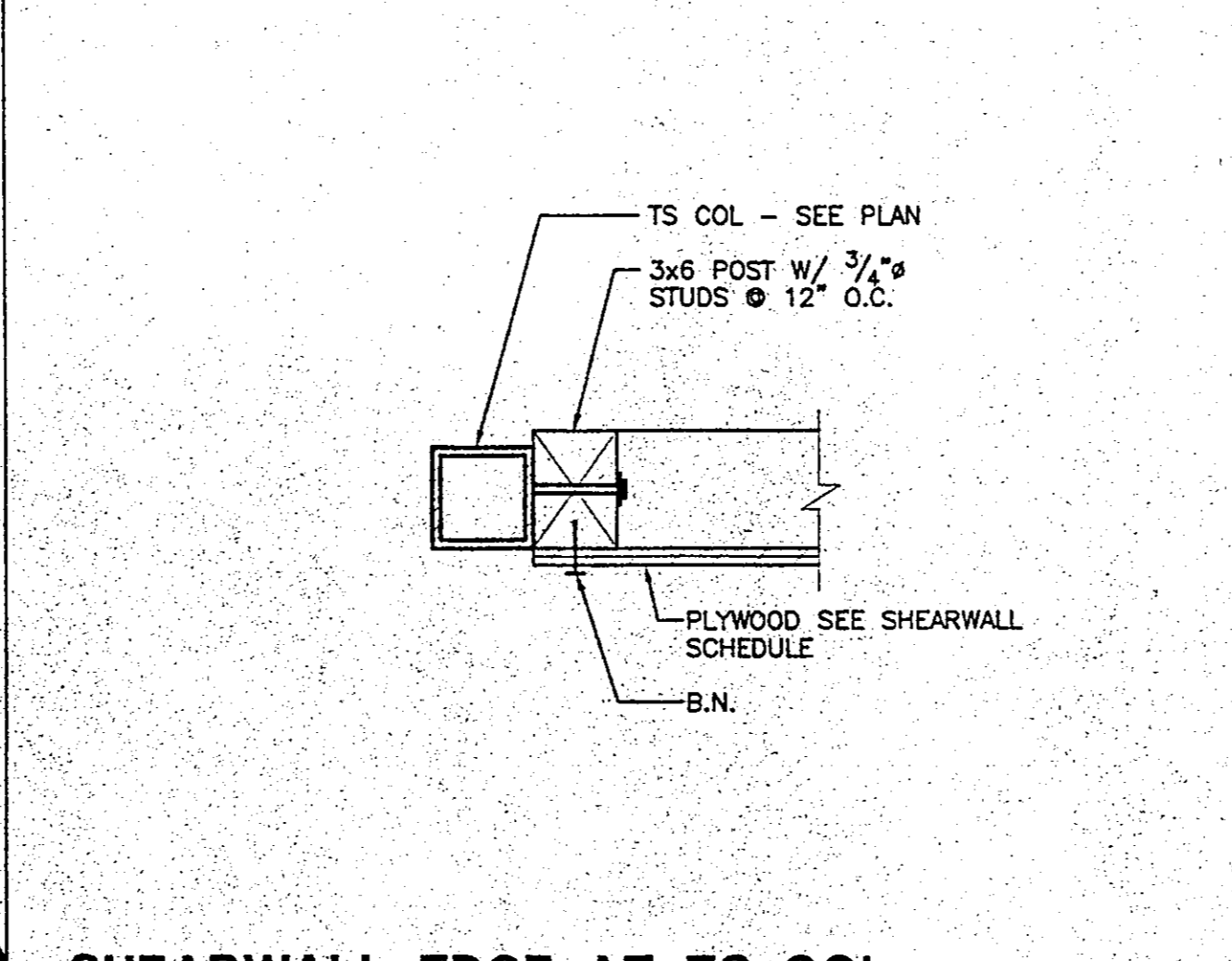
- NOTES:**
1. RUN LONG DIMENSION OF PLYWOOD SHEETS ACROSS (PERPENDICULAR TO) RAFTERS.
 2. STAGGER END JOINTS 2'-0" MIN. AS SHOWN.
 3. NAILING: SEE ROOF PLAN (USE NAILING BELOW UNLESS NOTED OTHERWISE)
 - BOUNDARY (BN) 10d @ 6" O.C. @ ROOF BOUNDARY, PLATE LINES, CHORDS, TIES AND AS CALLED FOR ON DRAWINGS
 - EDGE (EN) 10d @ 6" O.C. - ALL BEARING ENDS AND EDGES OF EACH PLYWOOD SHEET
 - FIELD (FN) 10d @ 12" O.C. ROOF - 10" O.C. FLOOR ALL INT. BEARING
 4. NAILS SHALL HAVE A MIN. 3/8" EDGE DISTANCE
 5. WHERE RAFTER LAP SPLICE OCCURS AND PLYWOOD END JOINTS ARE OFFSET - SEE DETAIL B BELOW
 6. ALL TRUSS JOISTS AND RAFTERS SHALL BE LAID OUT IN A 4'-0" MODULE TO COINCIDE W/ PLYWOOD PATTERN.



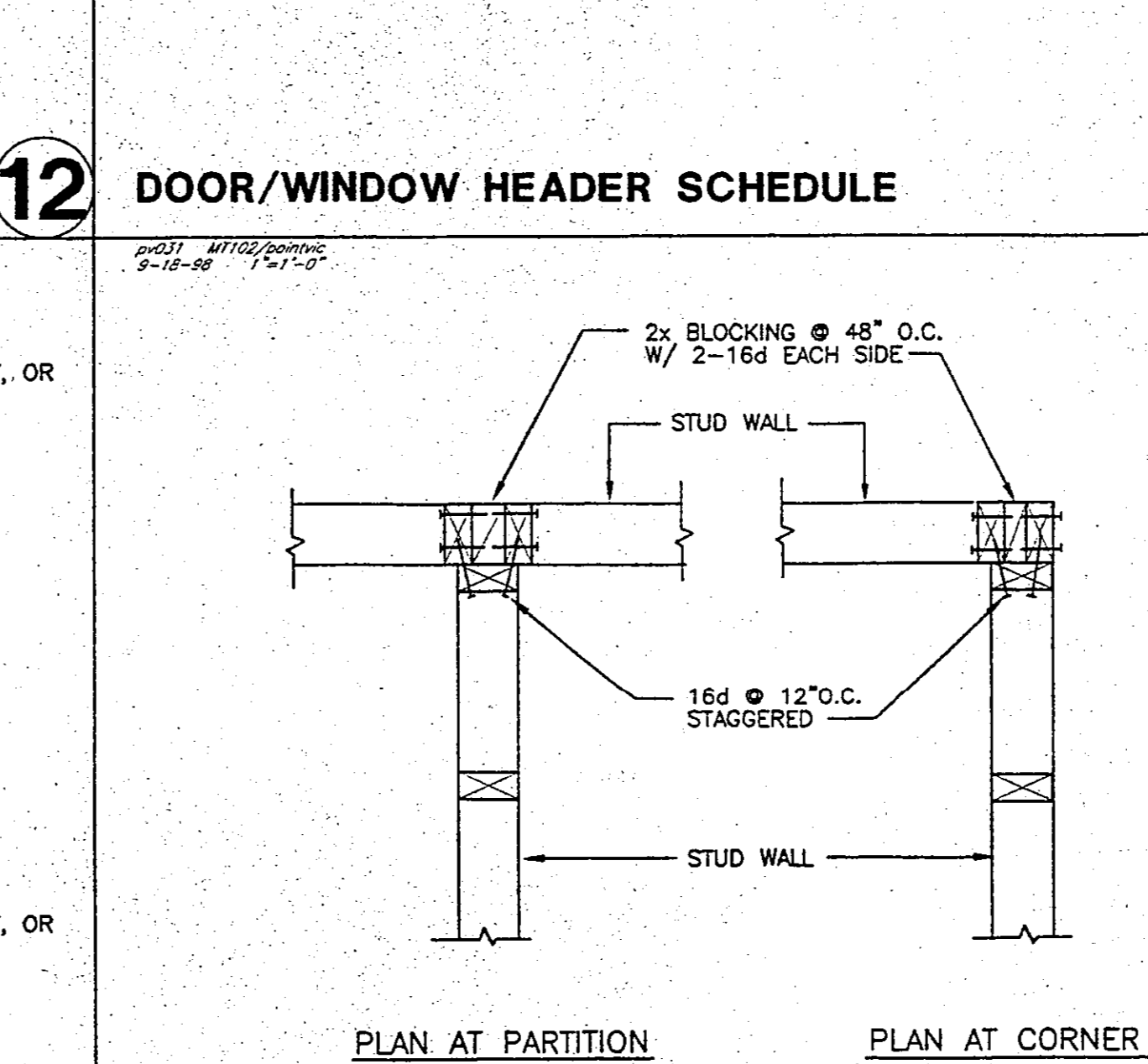
FRAMED OPENING IN FLOOR OR ROOF



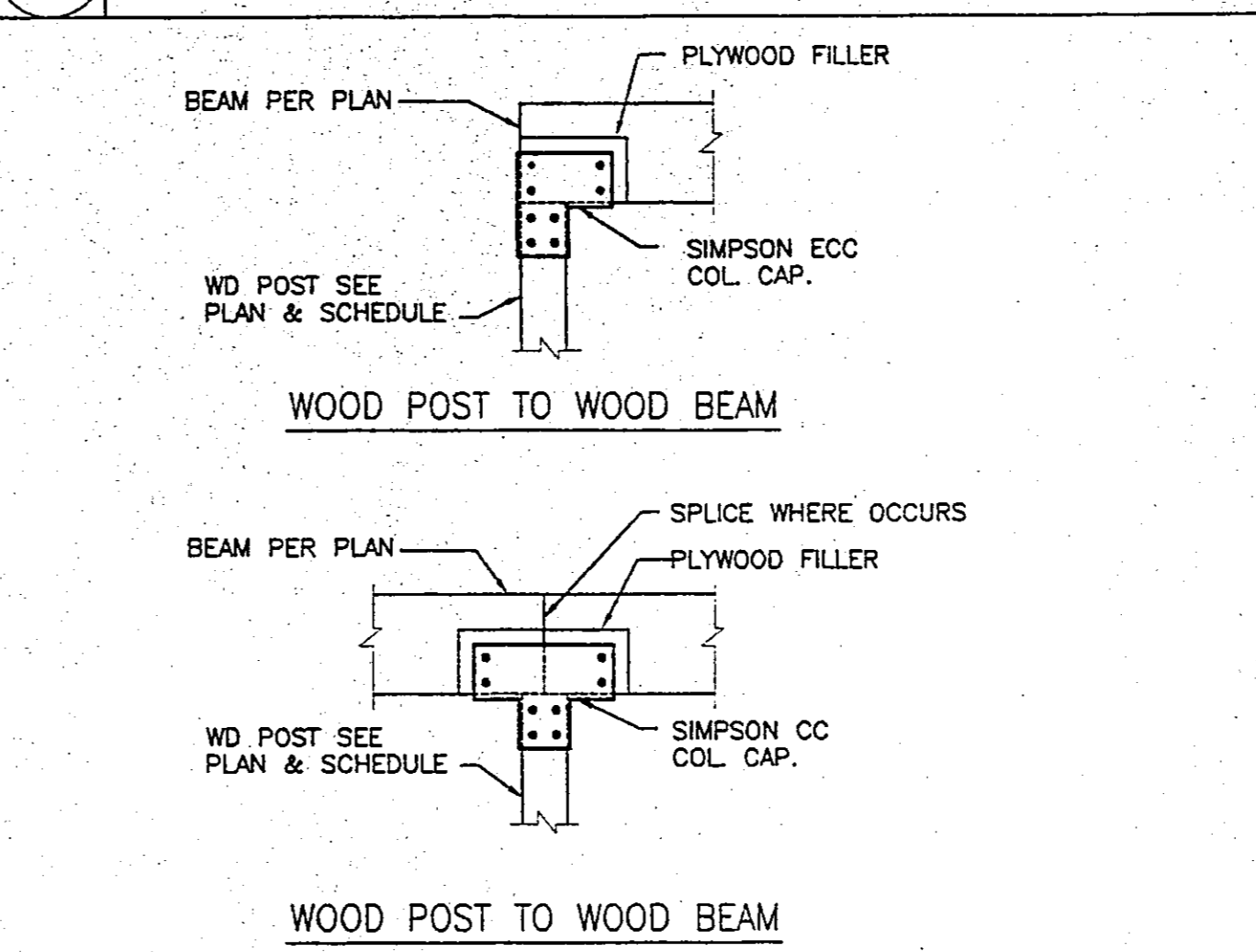
WOOD BEAM CONNECTIONS



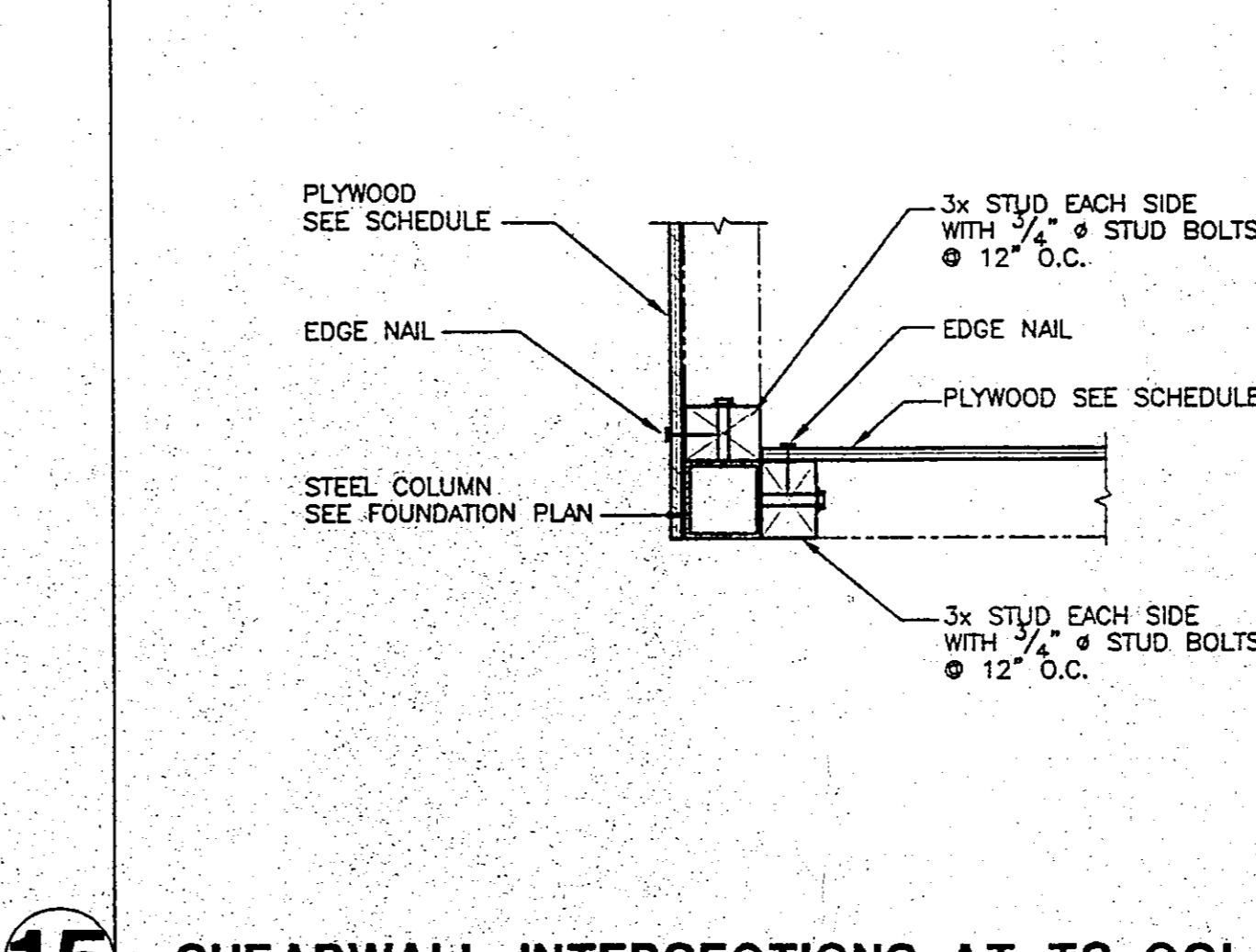
DOOR/WINDOW HEADER SCHEDULE



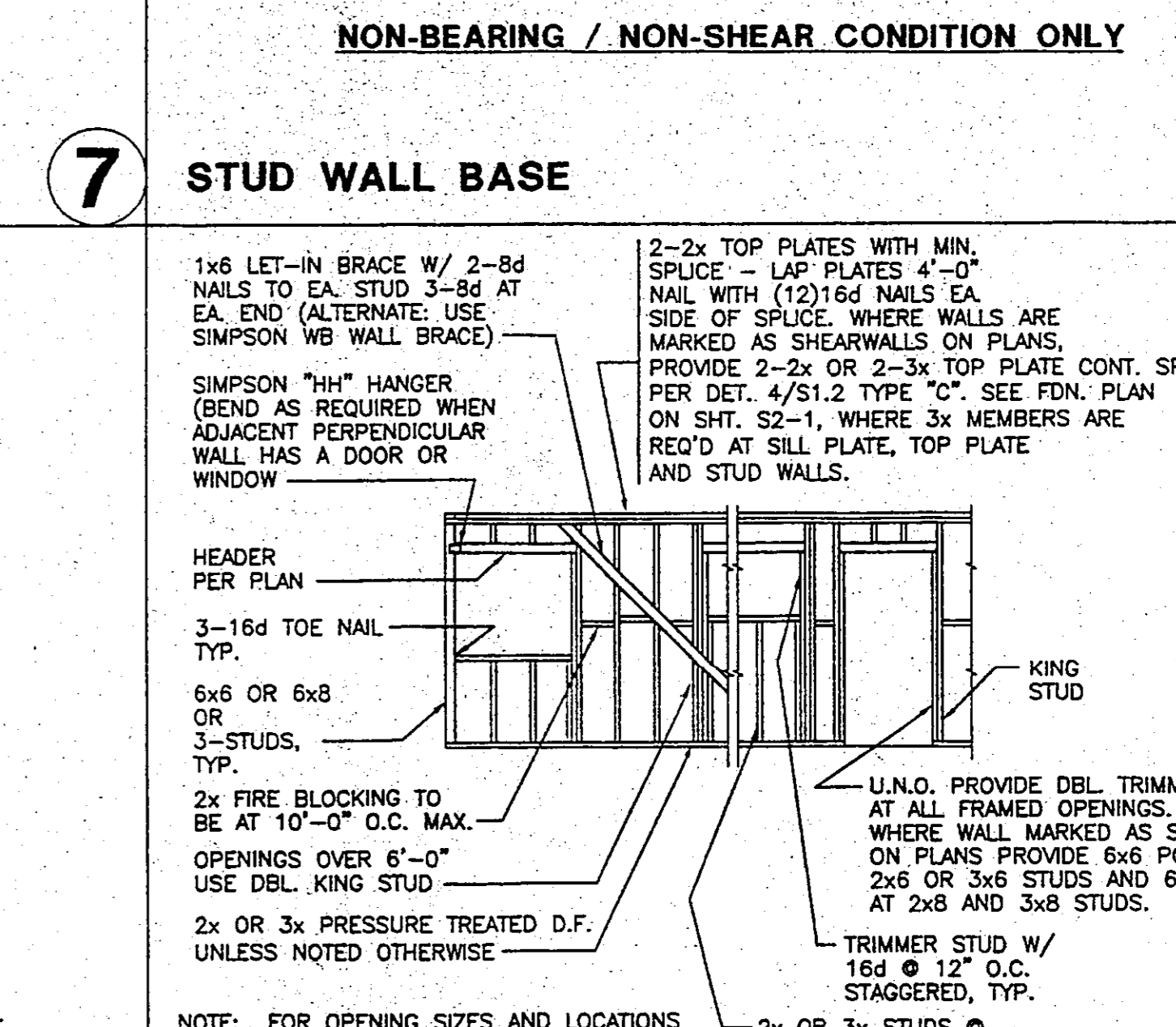
STUD WALL FRAMING AT INTERSECTIONS



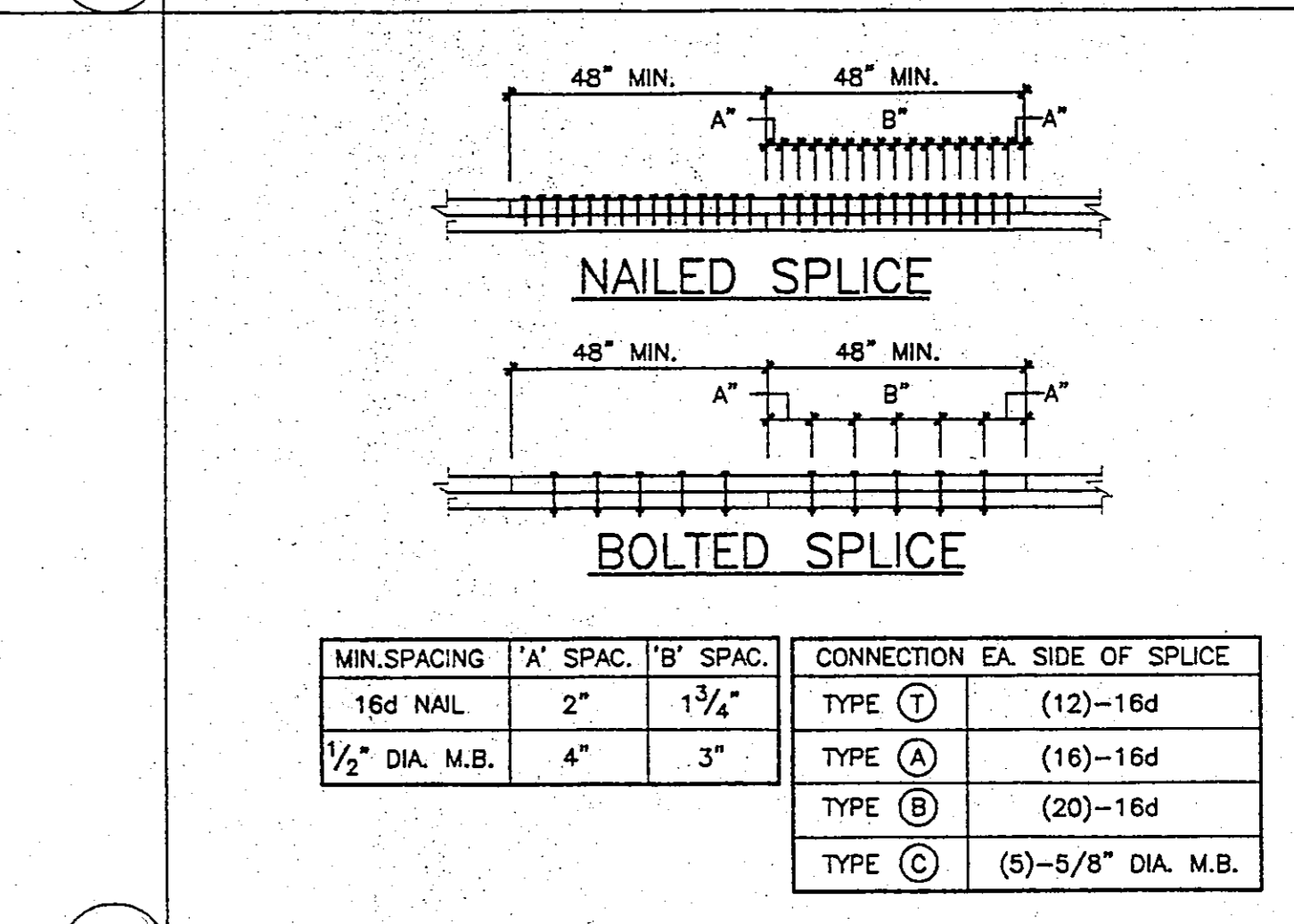
STUD WALL BASE



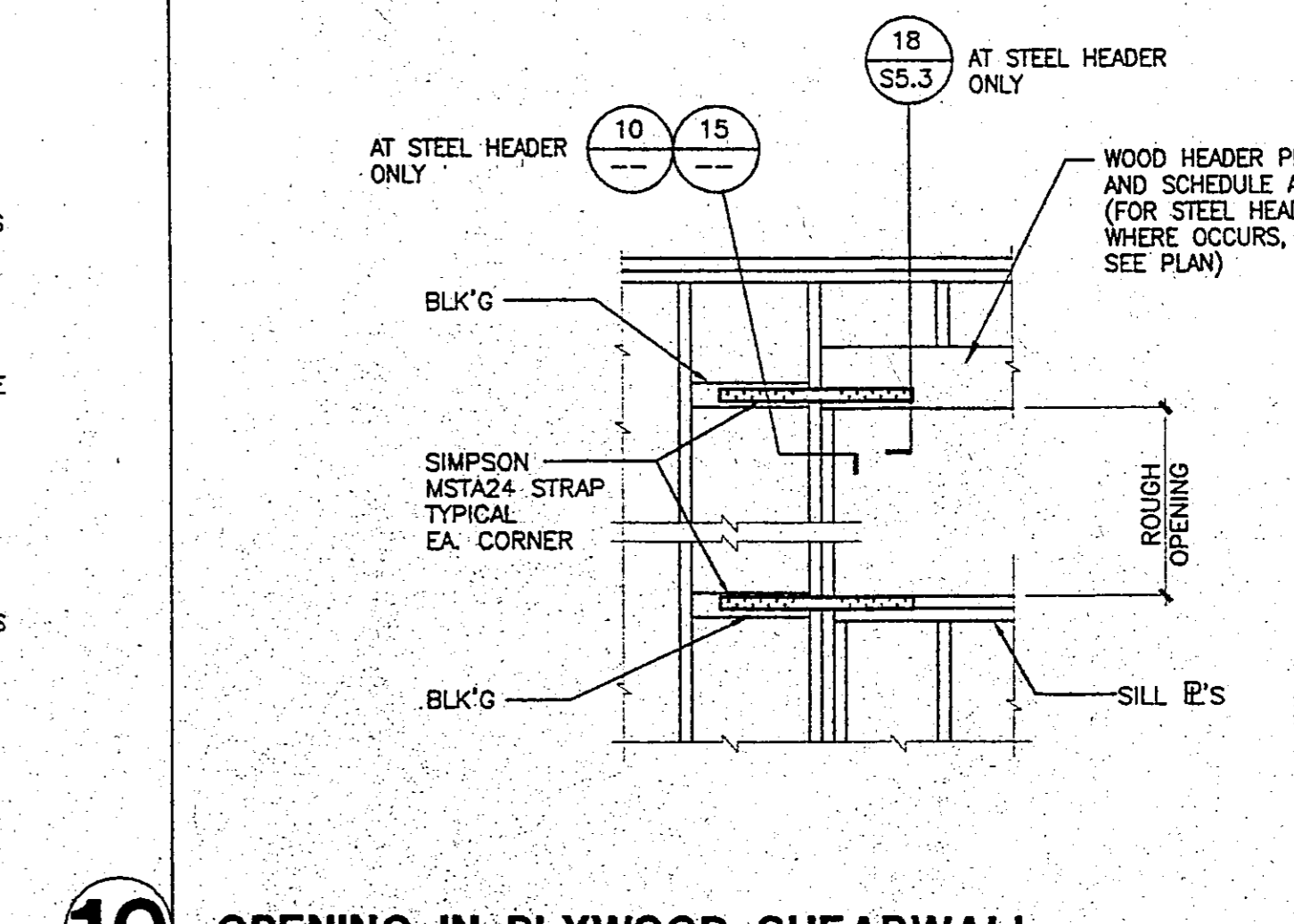
ANCHOR BOLT LAYOUT AT P.T. SILL



STUD WALL FRAMING



DBL. TOP PLATE SPLICES



BOLT SIZE	STEEL WASHERS		MALLEABLE IRON WASHERS		MALLEABLE IRON WASHERS SQUARE
	SQUARE	ROUND	ROUND	ROUND	
1/2"	2 1/2 x 1 1/4"	2 1/2 x 1 1/4"	2 1/4 x 1 1/4"	2 1/4 x 1 1/4"	2" x 2 1/4"
3/8"	2 1/2 x 1 1/4"	2 1/2 x 1 1/4"	2 1/4 x 3/8"	2 1/4 x 3/8"	2 1/2 x 2 1/2 x 1 1/4"
3/4"	3" x 1 1/4"	3" x 1 1/4"	3" x 7/16"	3" x 7/16"	3" x 3 1/4"
7/8"	3 1/2 x 3/8"	3 1/2 x 3/8"	3 1/2 x 7/16"	3 1/2 x 7/16"	3 1/2 x 3 1/2 x 3/8"
1"	4" x 3/8"	4" x 3/8"	4" x 1/2"	4" x 1/2"	4" x 4" x 1/8"

- NOTES:**
1. WASHERS SHALL BE USED UNDER ALL NUTS & BOLT HEADS BEARING ON WOOD.
 2. USE STANDARD CUT WASHERS INDICATED IN SCHEDULE ABOVE IN THE FOLLOWING LOCATIONS:
 - a) ANCHOR BOLT CONNECTIONS
 - b) WOOD TO STEEL CONNECTIONS
 3. USE MALLEABLE IRON WASHERS INDICATED IN SCHEDULE ABOVE FOR ALL BOLTS IN TENSION.

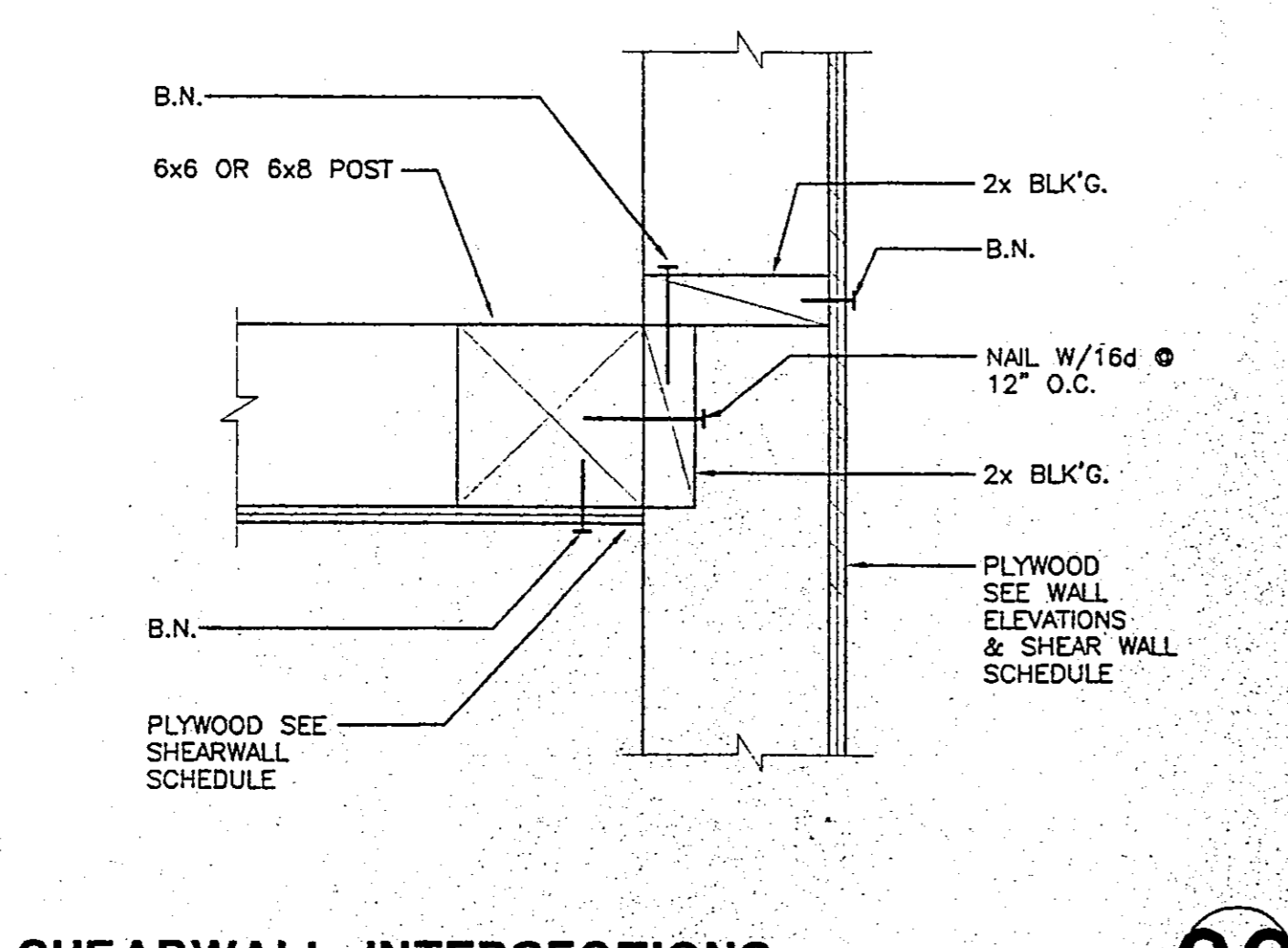
WASHER SCHEDULE

NOTE: USE THE FOLLOWING SIZE MEMBERS FOR OPENING WIDTHS INDICATED WHERE HEADER SIZE IS NOT INDICATED ON PLANS & DETAILS.

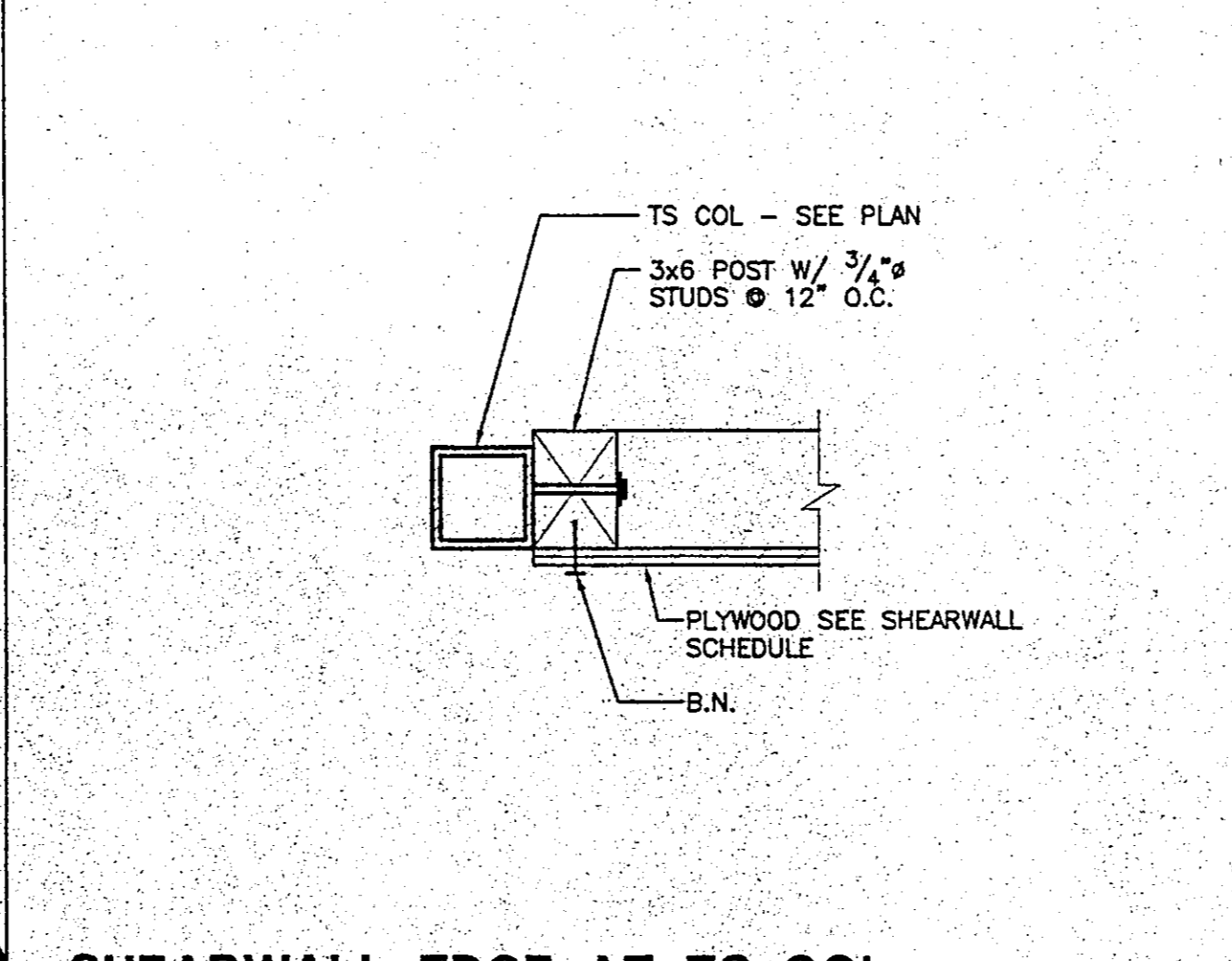
CLEAR OPENING WIDTH	HEADER SCHEDULE		
	HEADER SIZE (2x6 STUD WALL)	HEADER SIZE (2x6 STUD WALL)	HEADER SIZE (2x8 OR 3x8 STUD WALL)
0'-0" TO 6'-0"	4x6	6x6	8x6
6'-0" TO 8'-0"	4x8	6x8	8x8
8'-0" TO 10'-0"	4x10	6x10	8x10
10'-0" TO 12'-0"	4x12	6x12	8x12



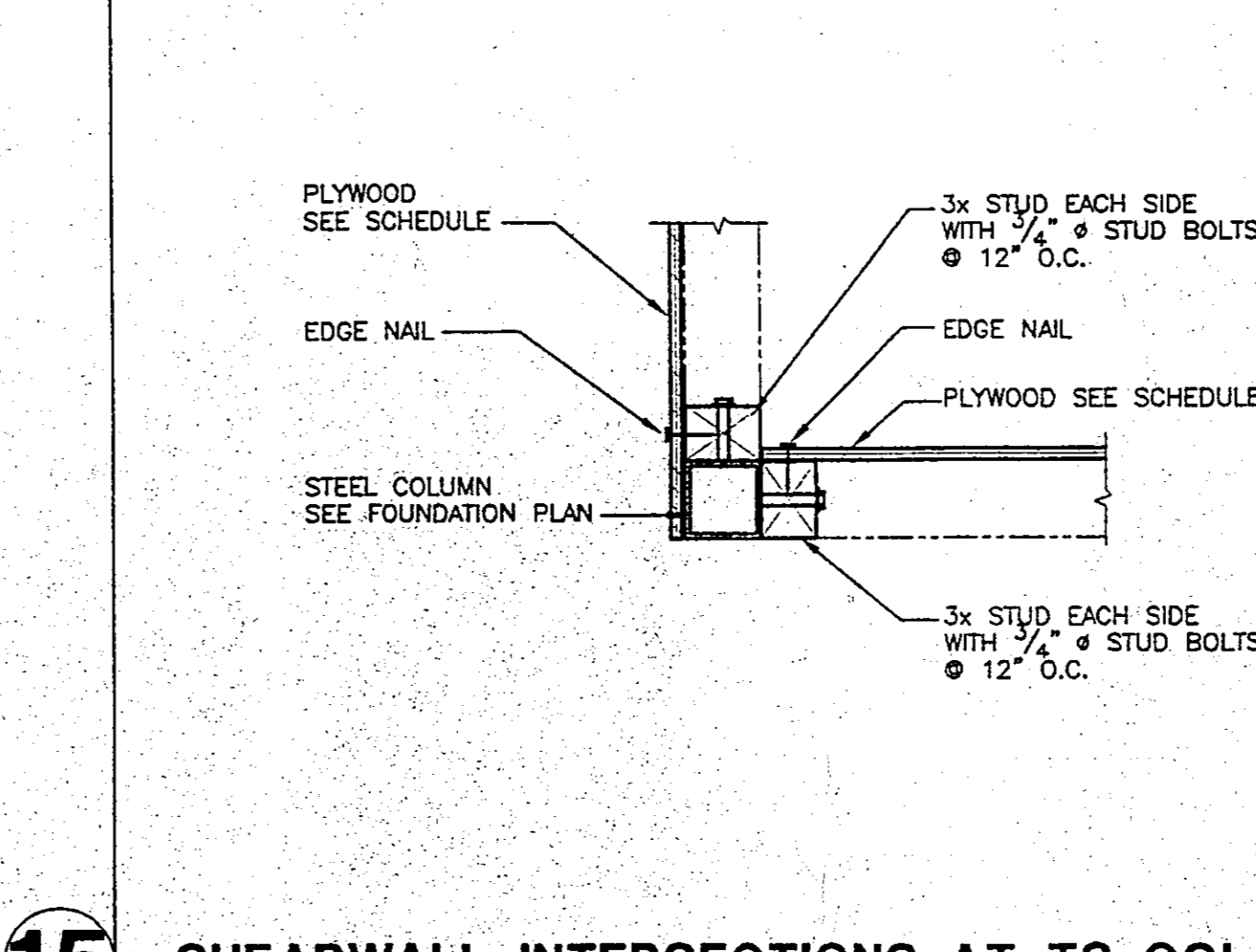
SHEARWALL INTERSECTIONS



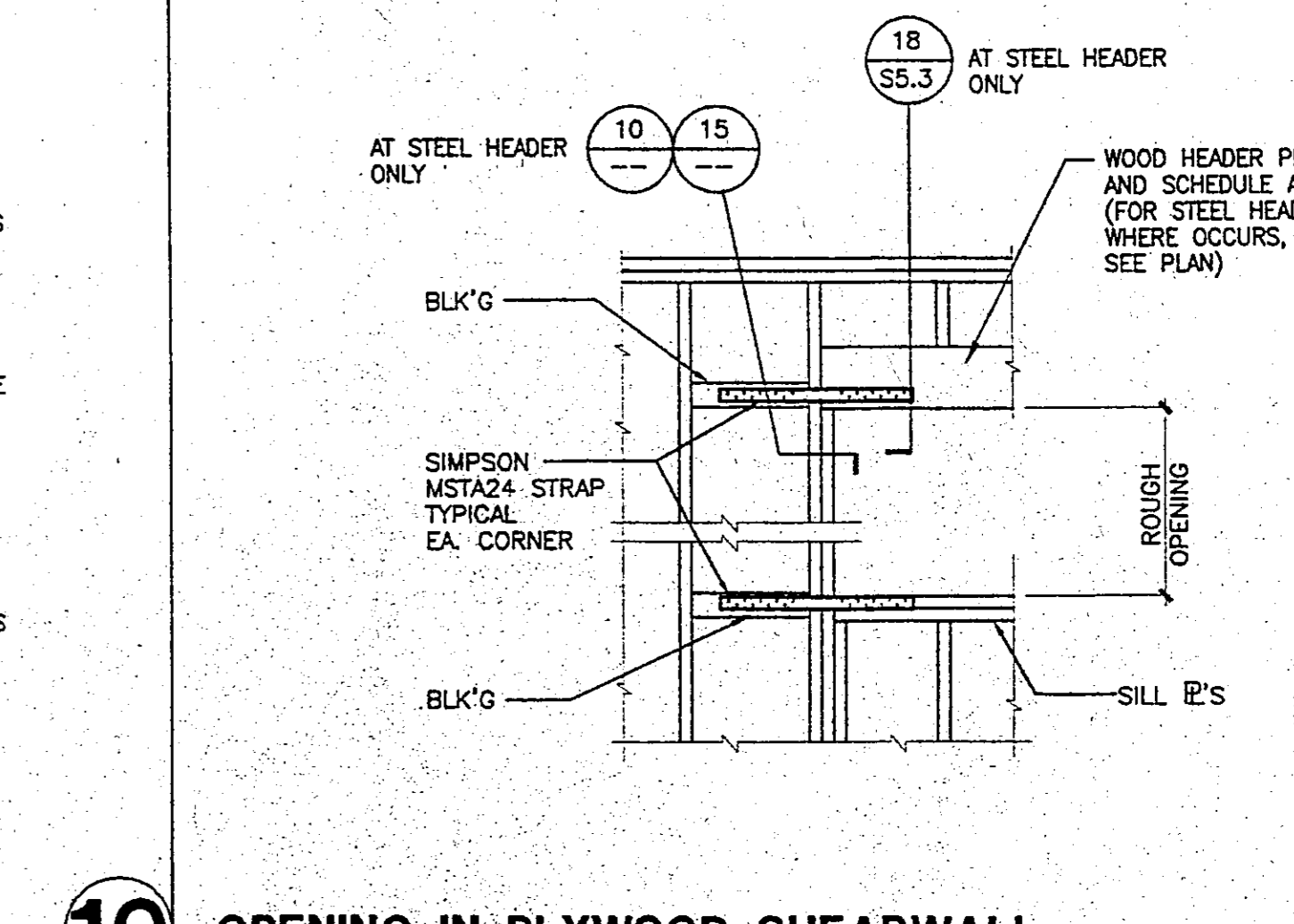
SHEARWALL EDGE AT TS COL.



SHEARWALL INTERSECTIONS AT TS COL.



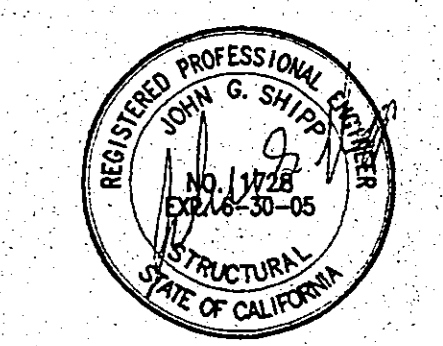
OPENING IN PLYWOOD SHEARWALL



MIN. SPACING	'A' SPAC.	'B' SPAC.	CONNECTION EA. SIDE OF SPLICE
16d NAIL	2"	1 3/4"	TYPE (T) (12)-16d
1/2" DIA. M.B.	4"	3"	TYPE (A) (16)-16d
			TYPE (B) (20)-16d
			TYPE (C) (5)-5/8" DIA. M.B.

OPENING IN PLYWOOD SHEARWALL

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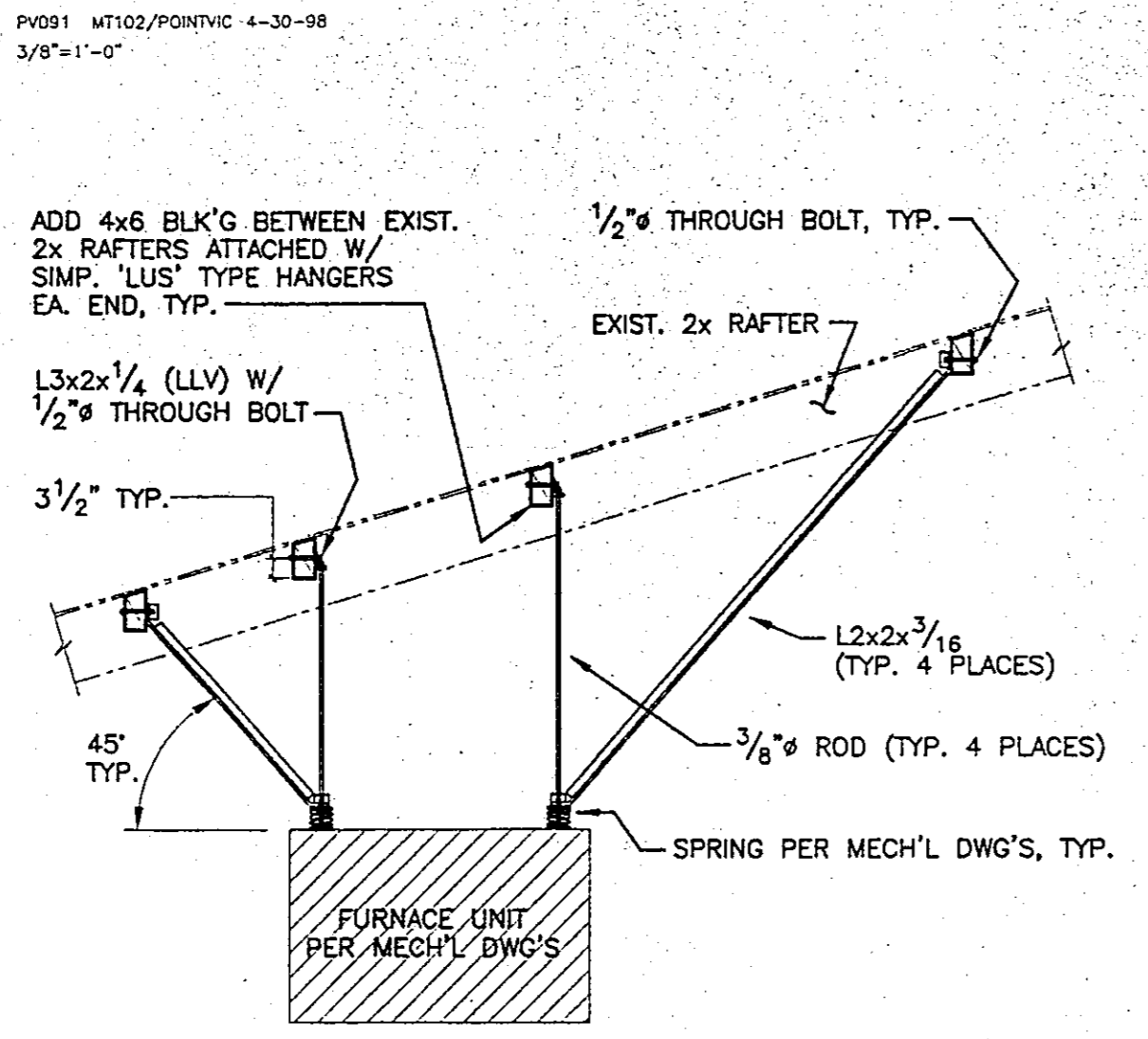
ABS Consulting
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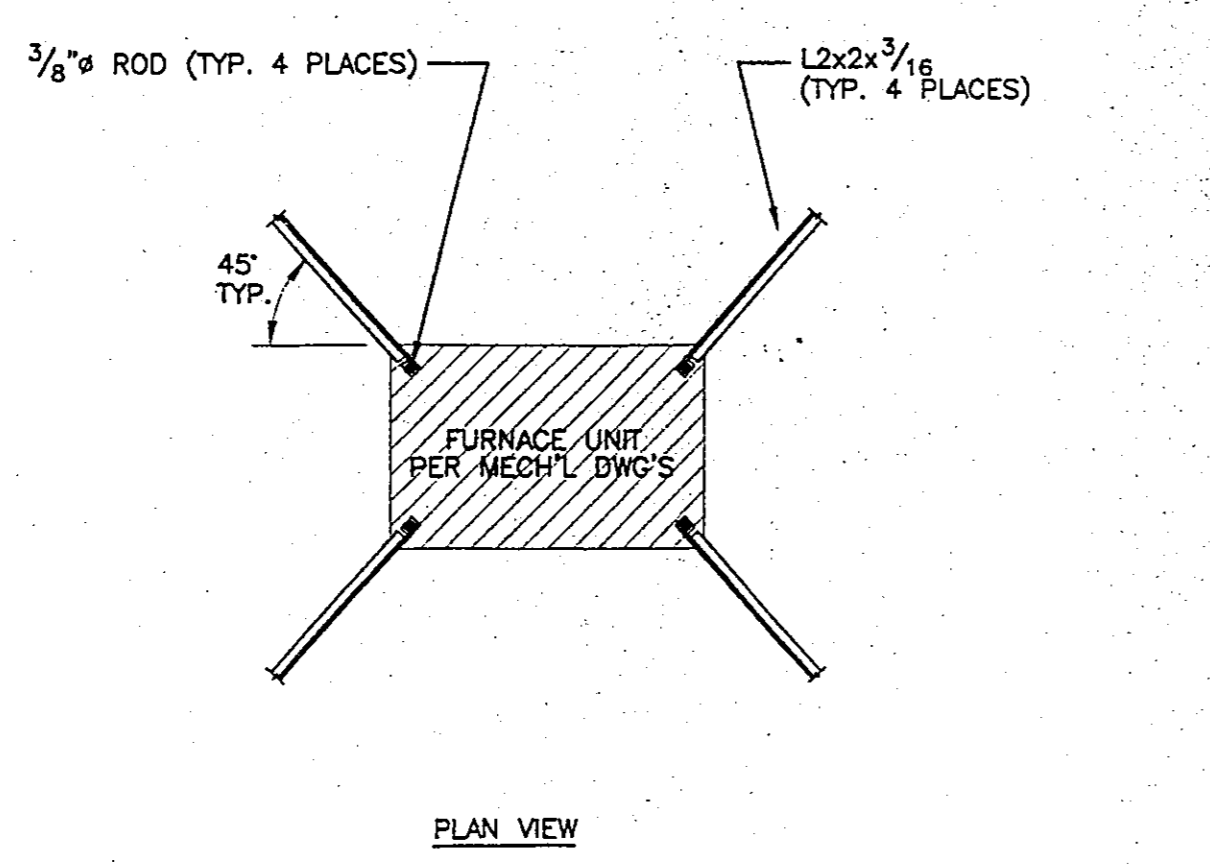
TYPICAL DETAILS

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 SCALE
 JOB NO. 20534/1
 SHEET
S1.2
 37 OF 69 SHEETS

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17



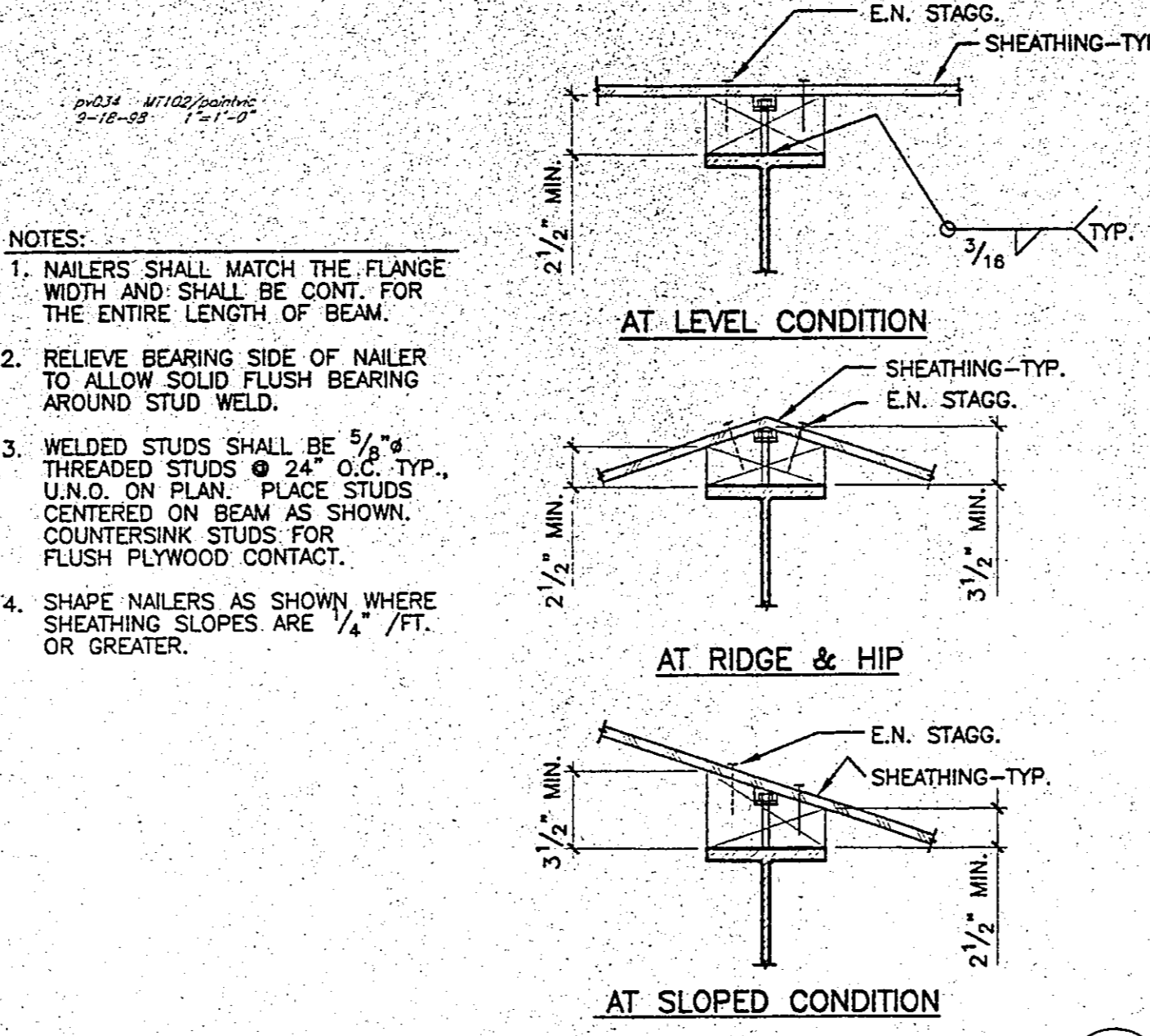
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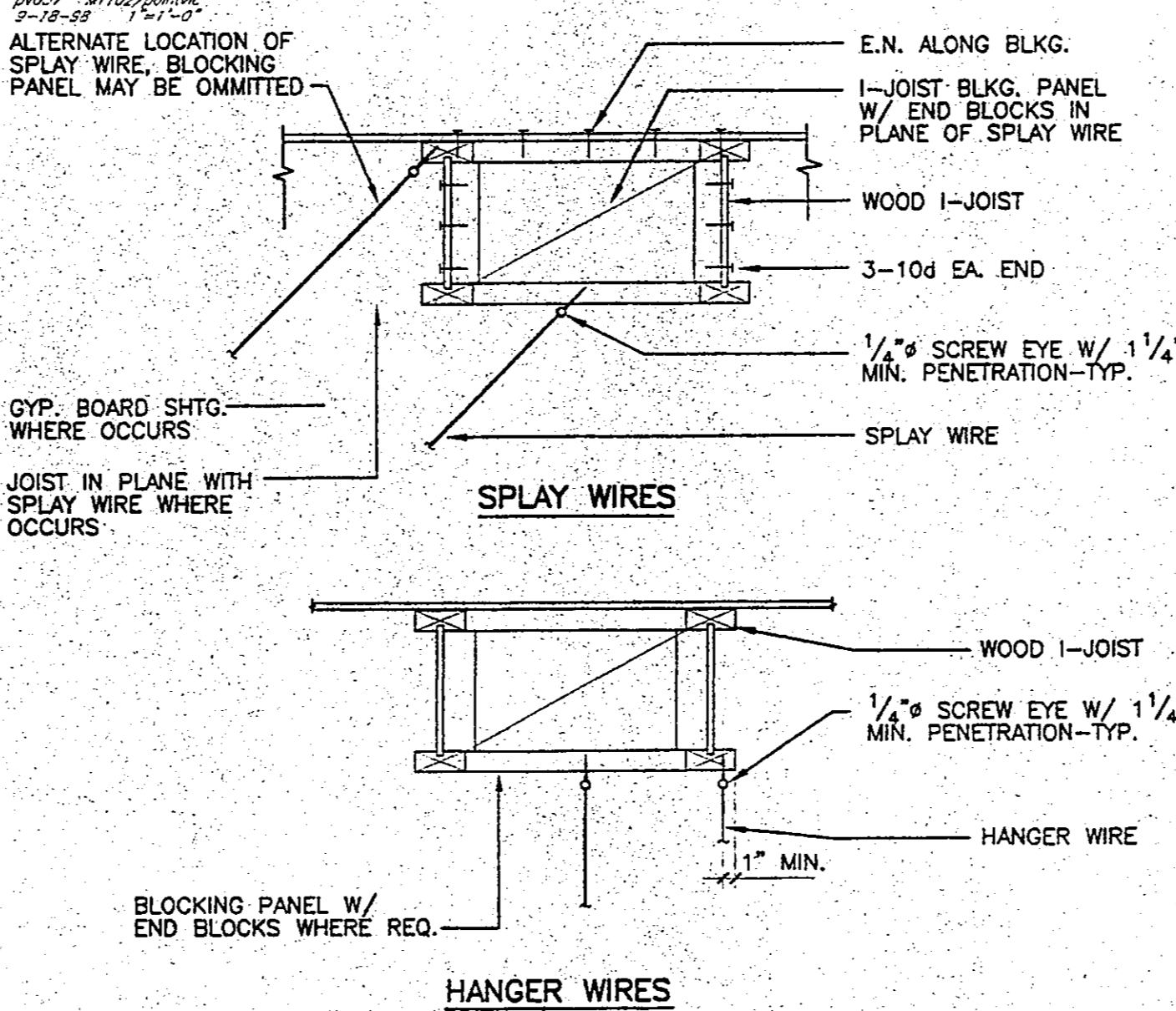
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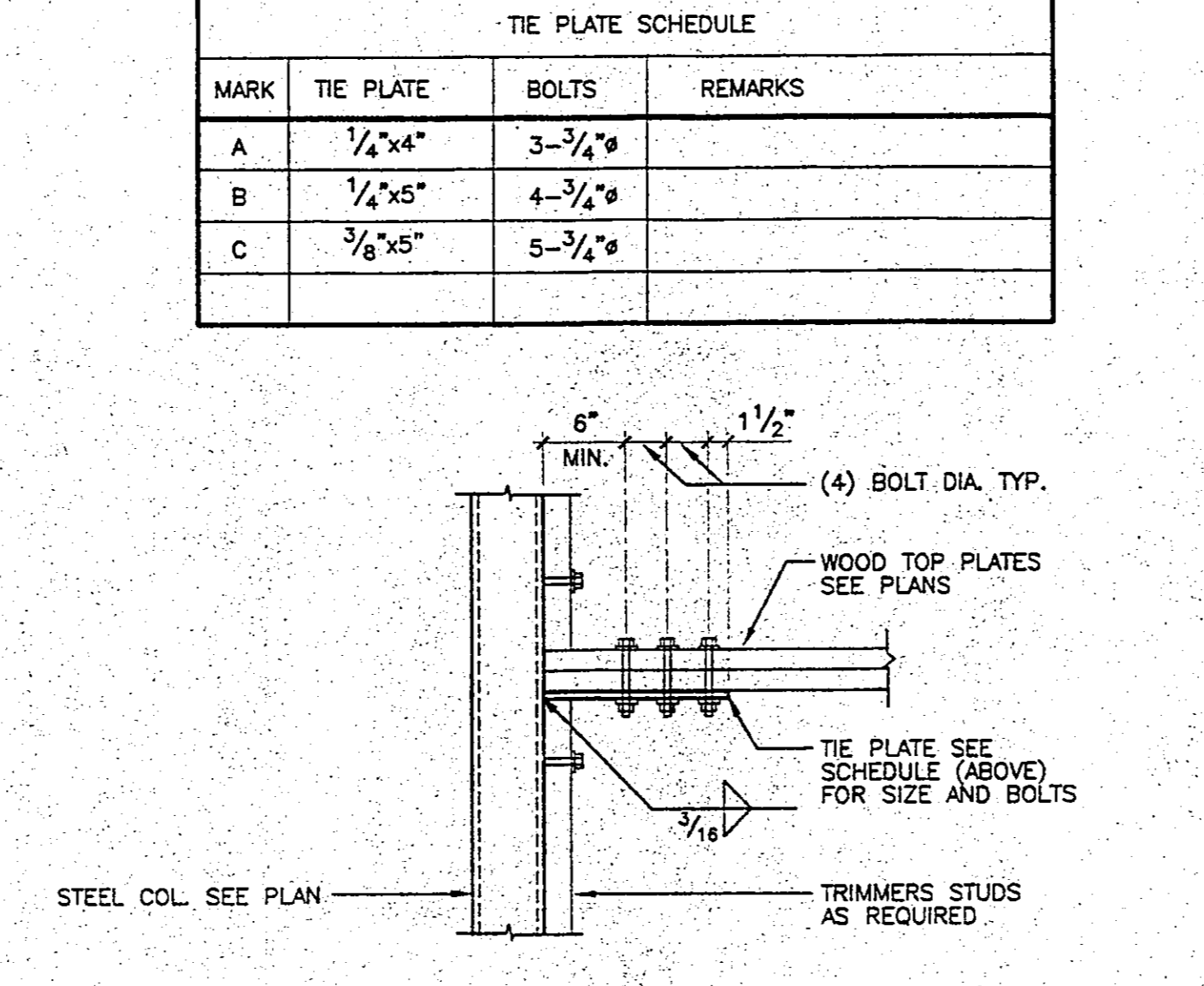
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WOOD NAILER AT STEEL BEAMS 9



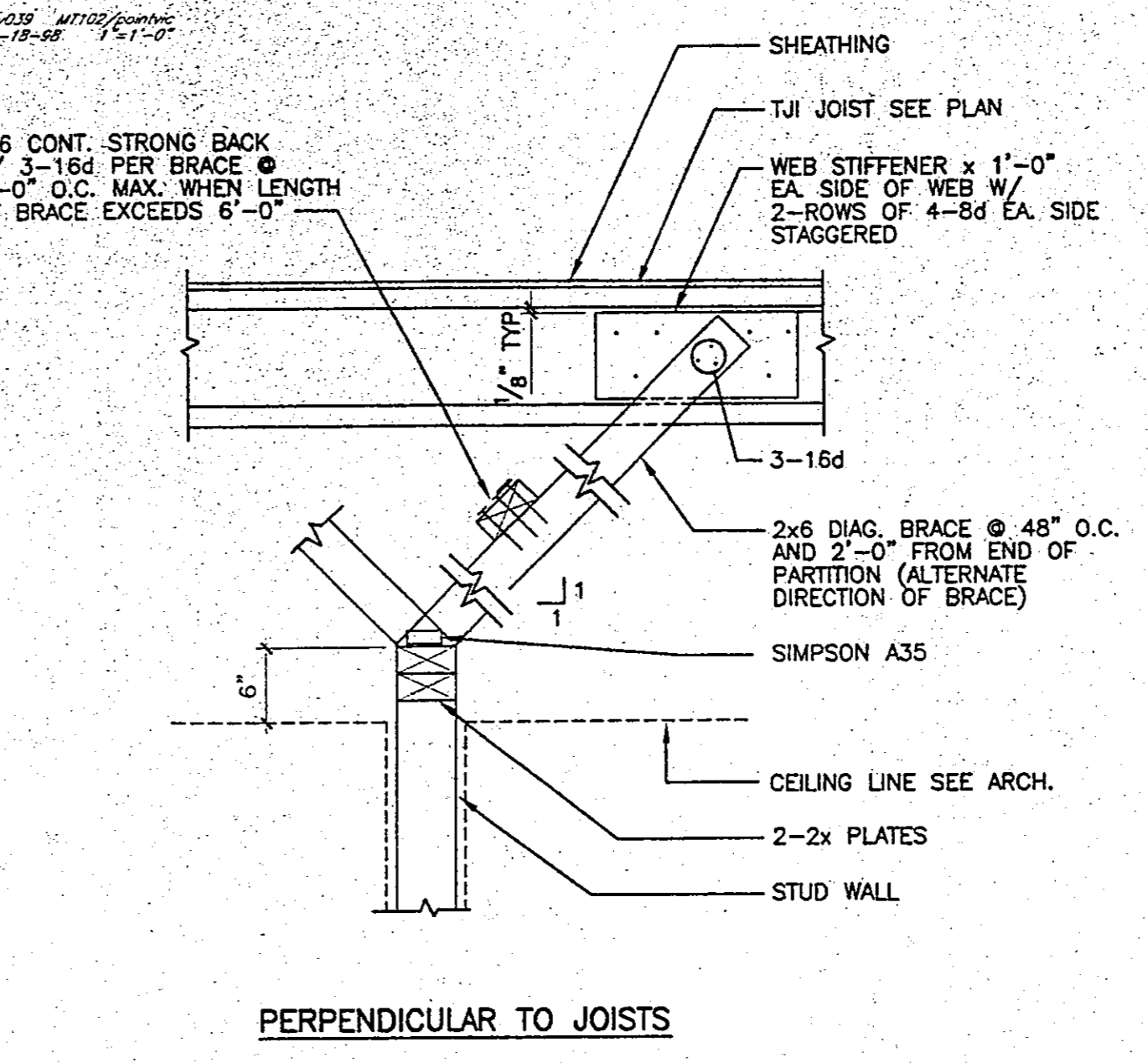
SUSPENDED CEILING AT TJI JOIST 14



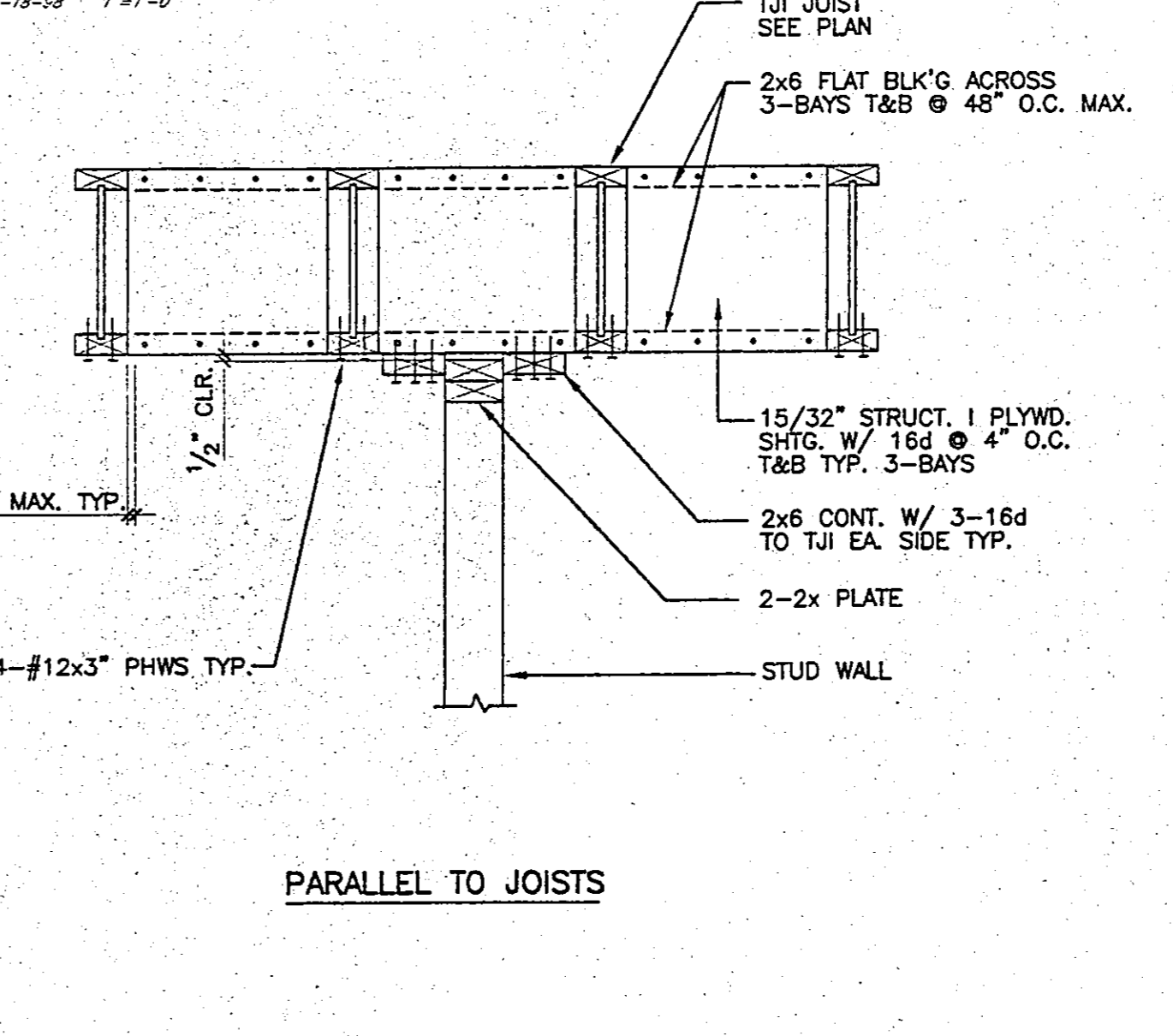
TOP PLATE TIE 15



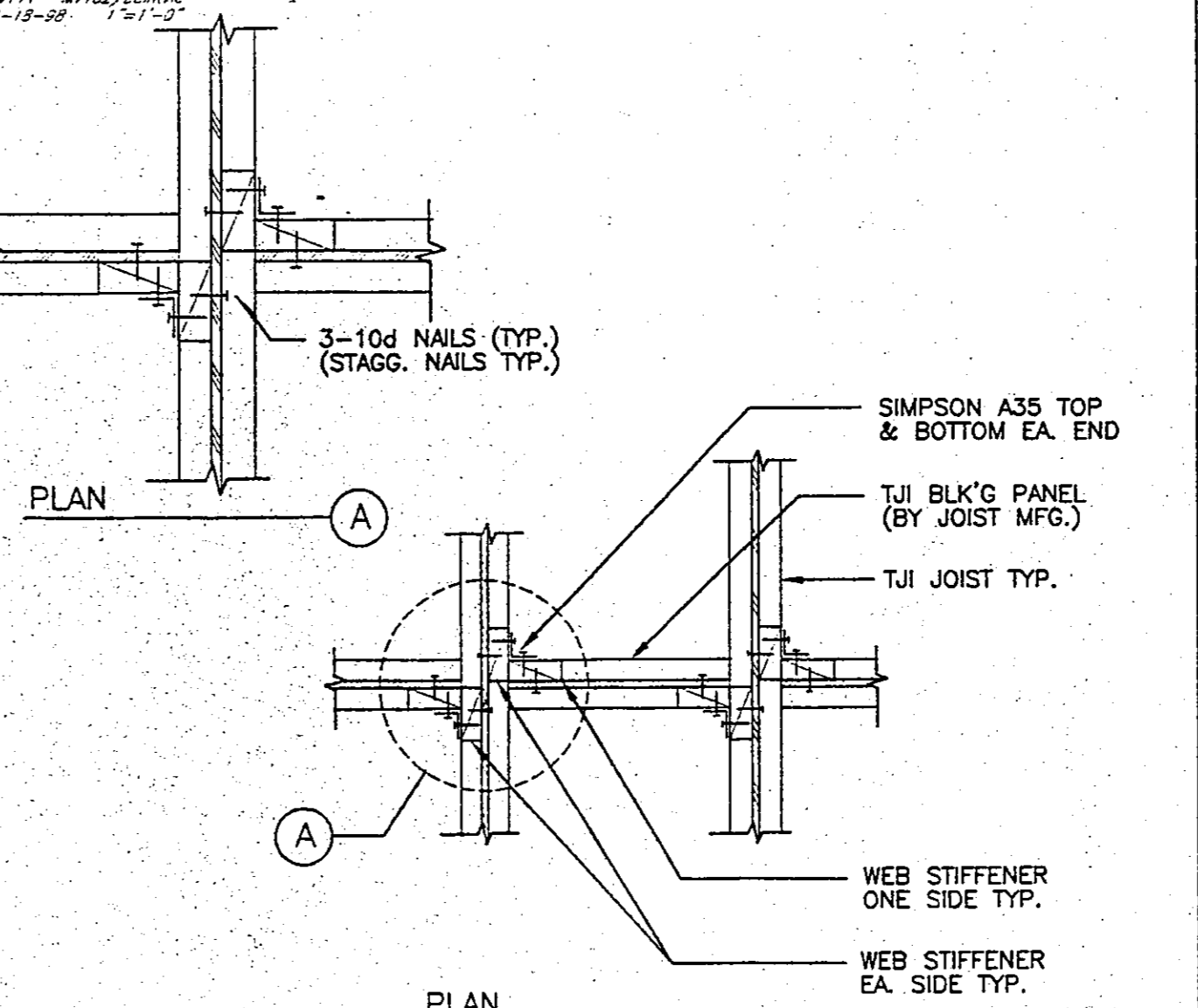
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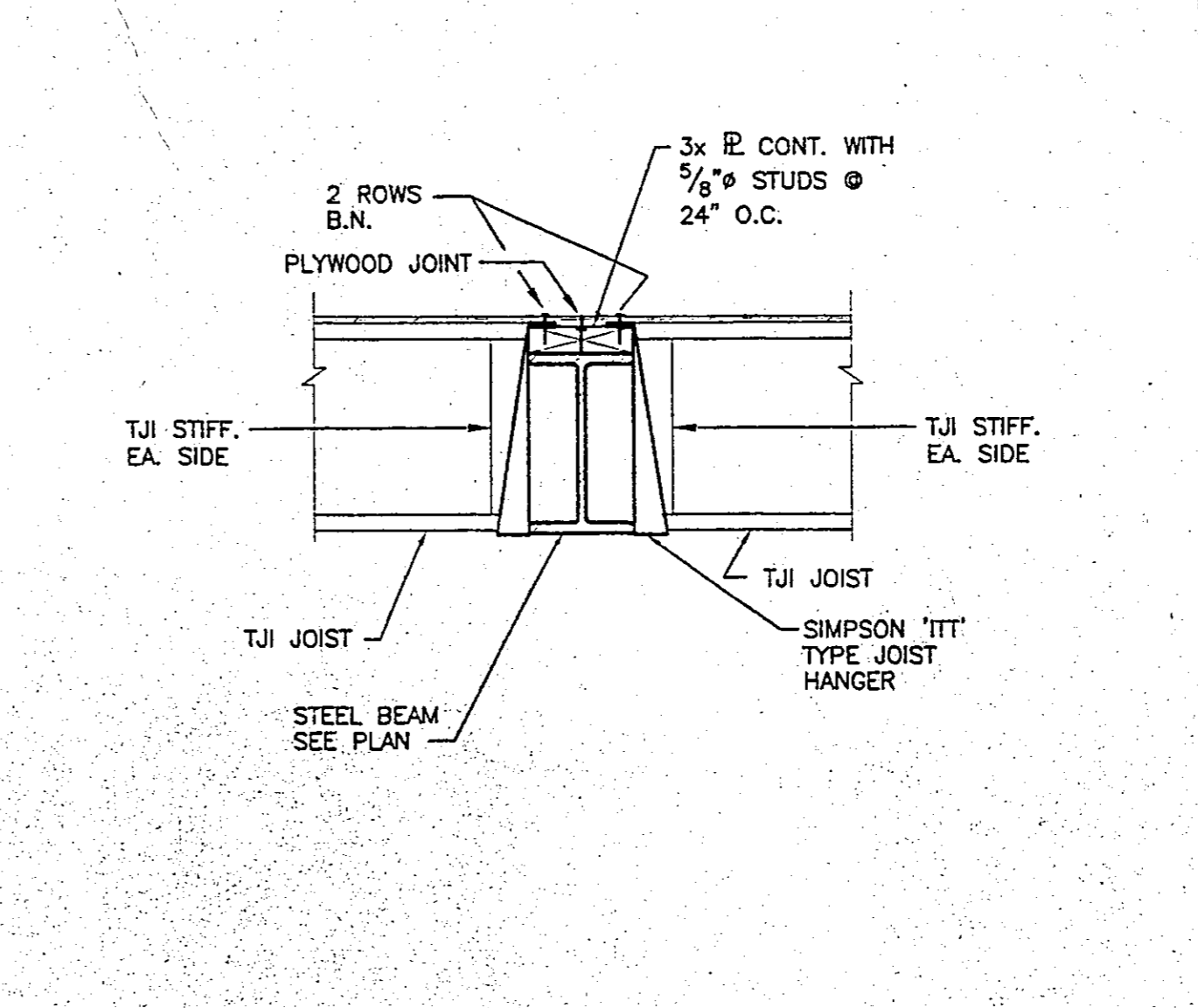
PARTITION BRACE AT TJI JOIST (NON-BEARING) 7



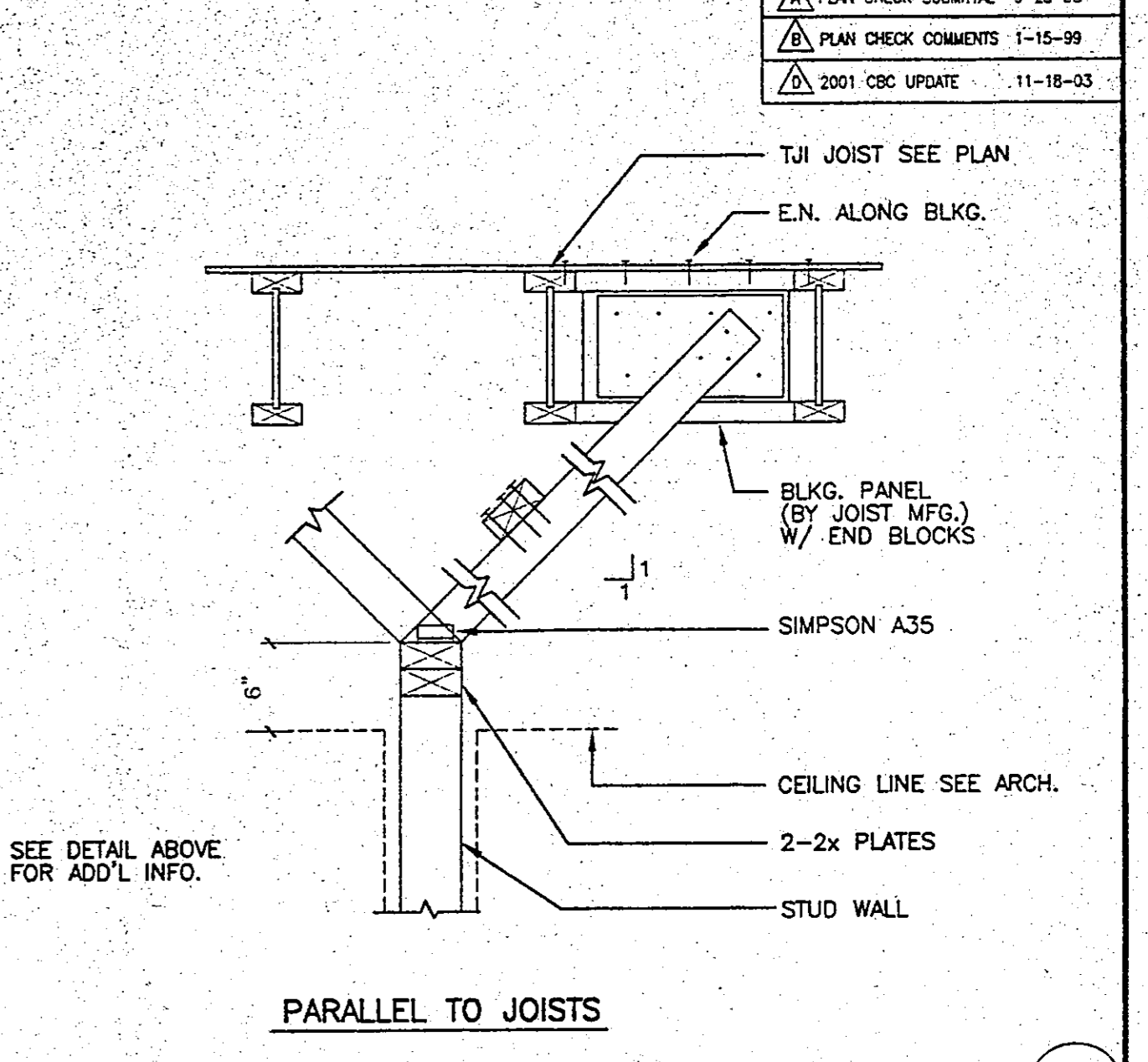
PARTITION BRACE AT TJI JOIST (NON-BEARING) 10



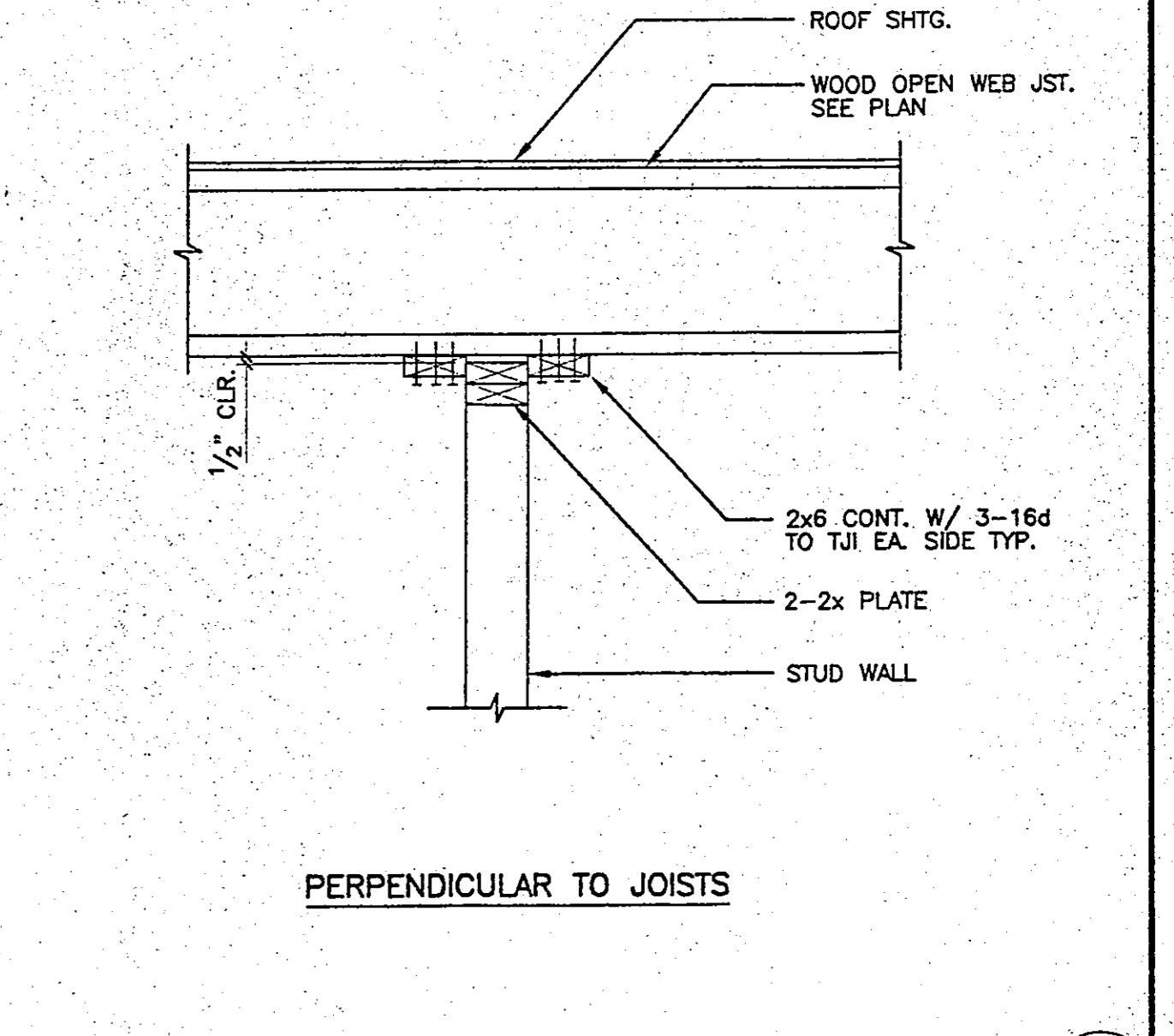
TJI BEARING COND. AT PARTITION WALL 11



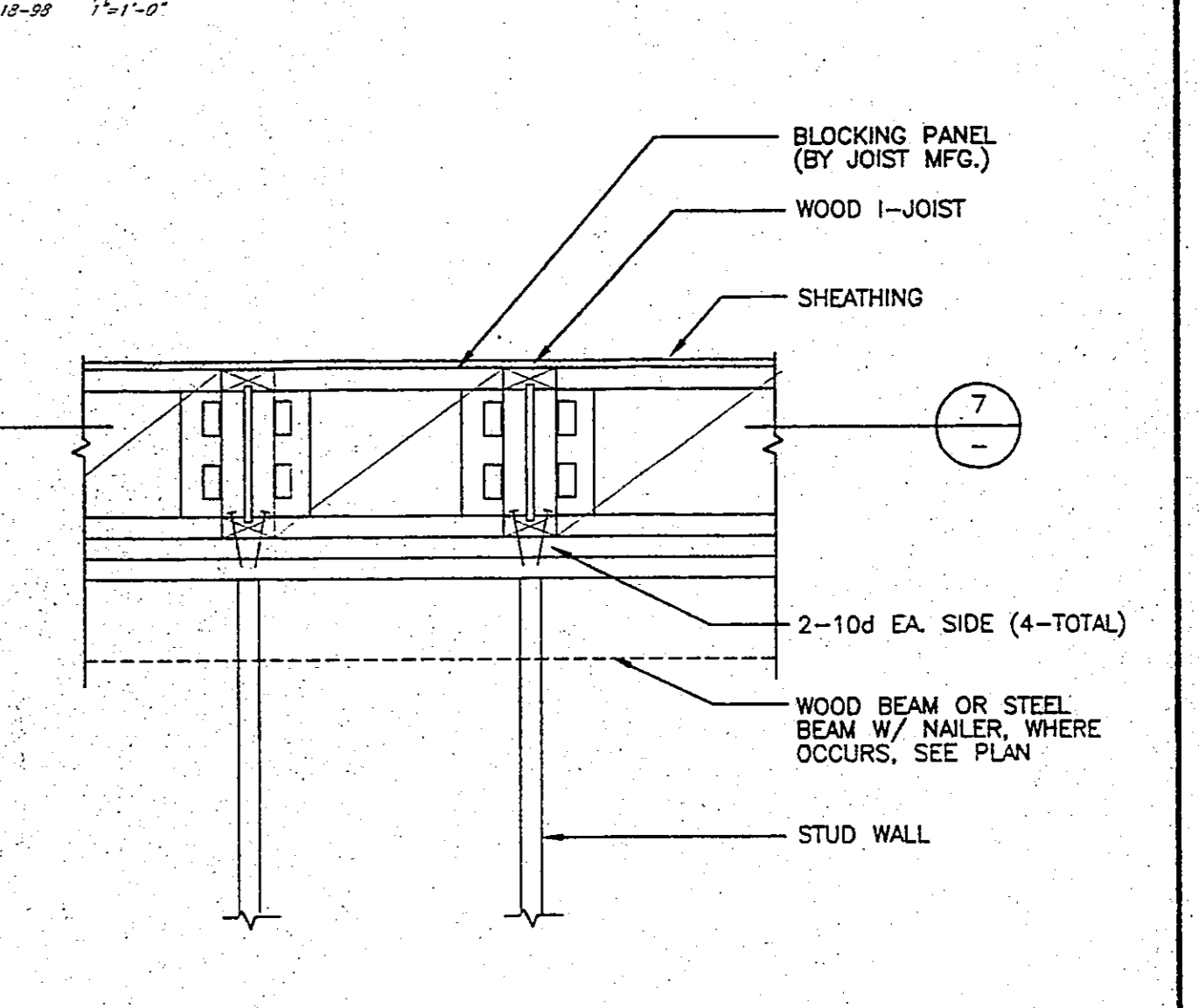
TRUSS JOIST TO STEEL BEAM 12



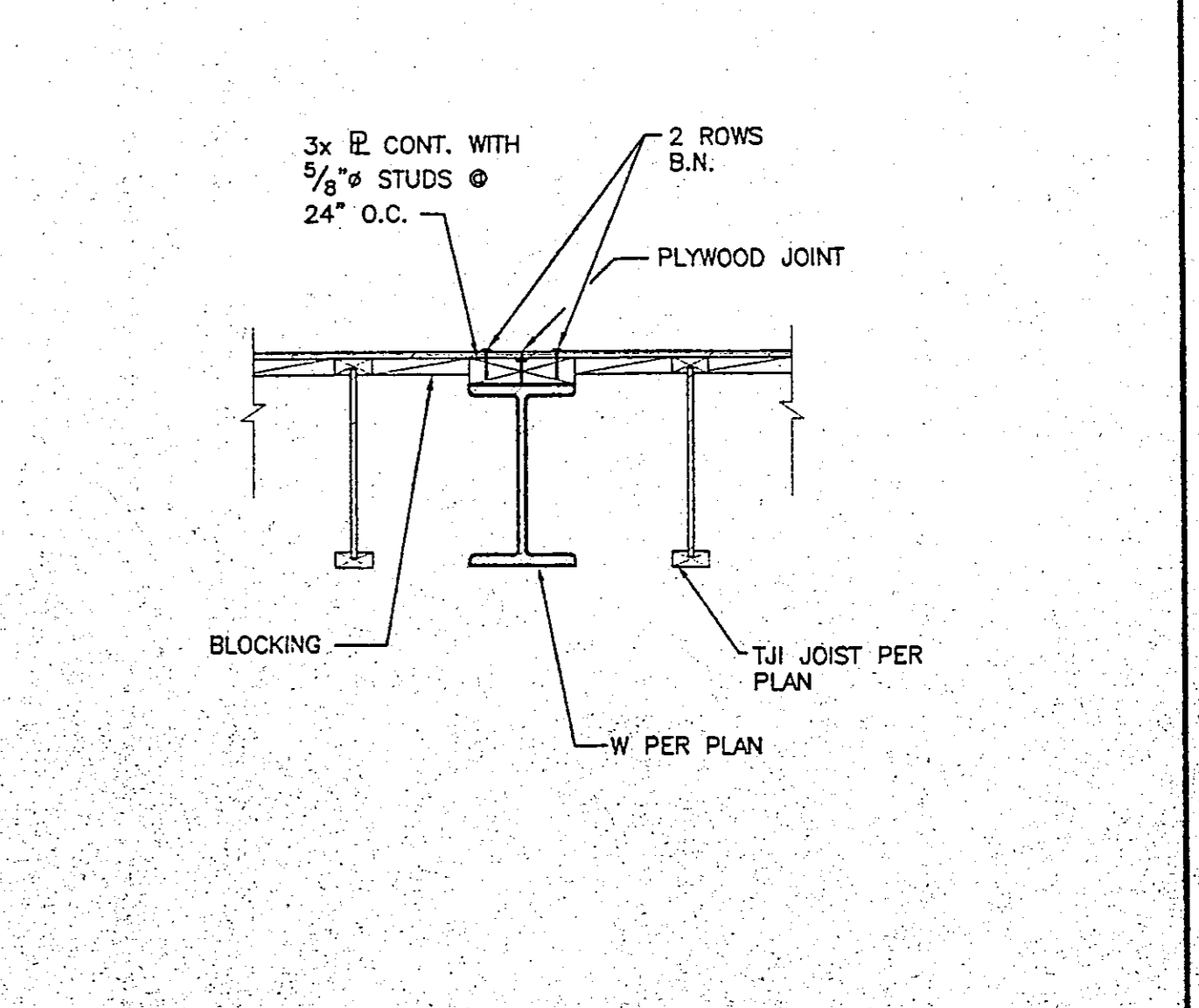
PARTITION BRACE AT TJI JOIST (NON-BEARING) 1



PARTITION BRACE AT TJI JOIST (NON-BEARING) 2



TJI BEARING COND. AT PARTITION WALL 3



JOIST PARALLEL TO STEEL BEAM 4

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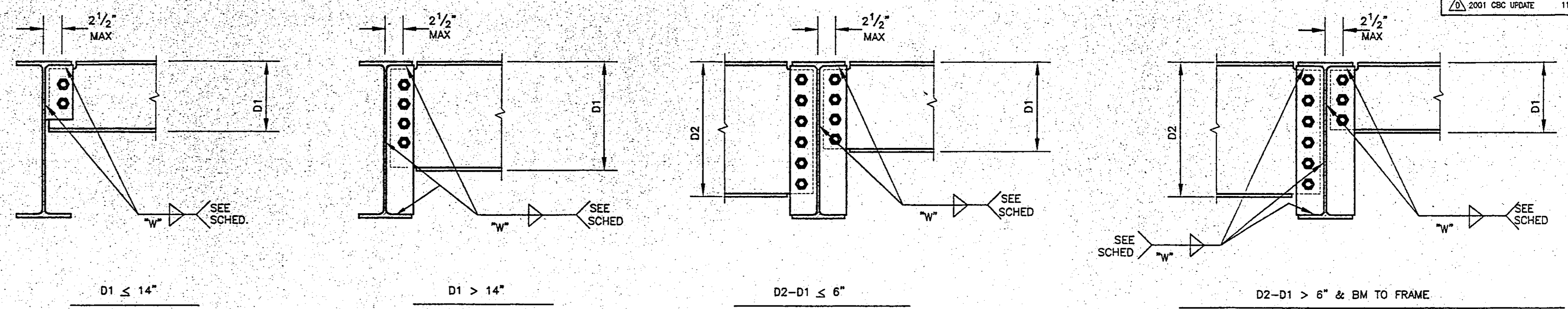
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 DETAILS

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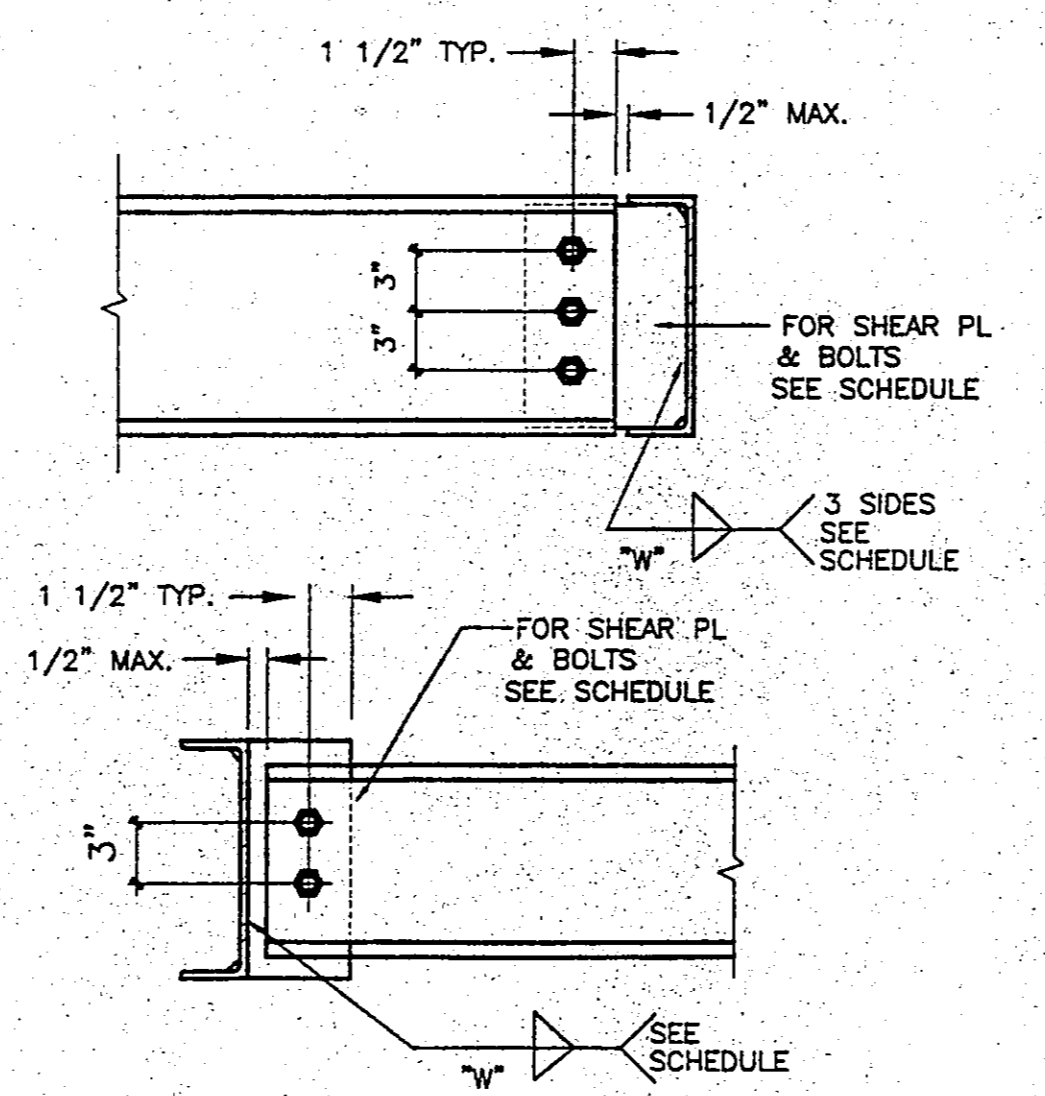


NOTE: 1. FOR SHEAR PL. & BOLTS SEE SCHEDULE

NOTE: 1. FOR SHEAR PL. & BOLTS SEE SCHEDULE
 2. FOR HORIZONTAL OFFSET > 6"
 USE ONE-SIDED BEAM CONNECTIONS

ONE-SIDED BEAM TO BEAM CONNECTION (A)

TWO-SIDED BEAM TO BEAM CONNECTION (B)

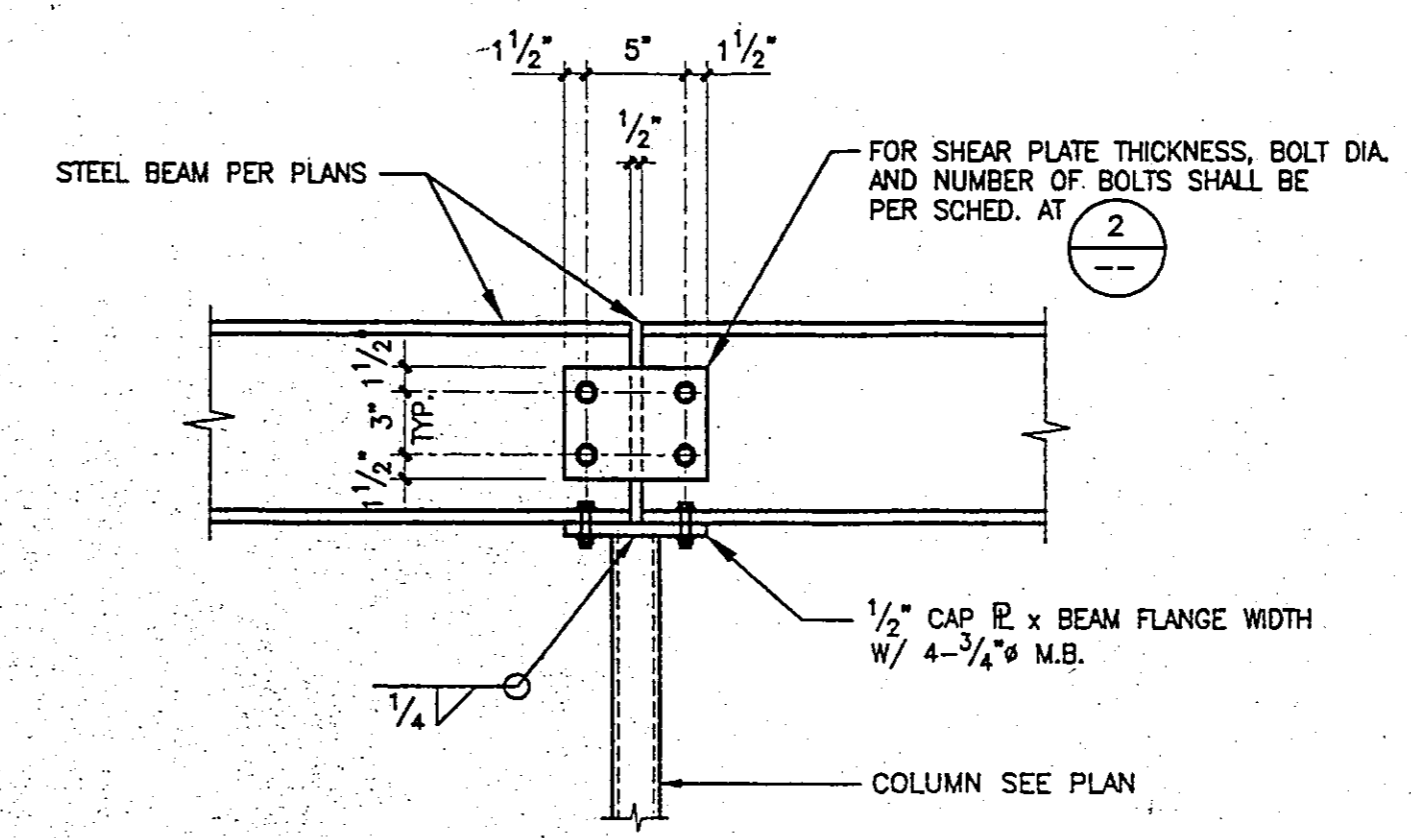


TYP. CHANNEL TO CHANNEL (C)

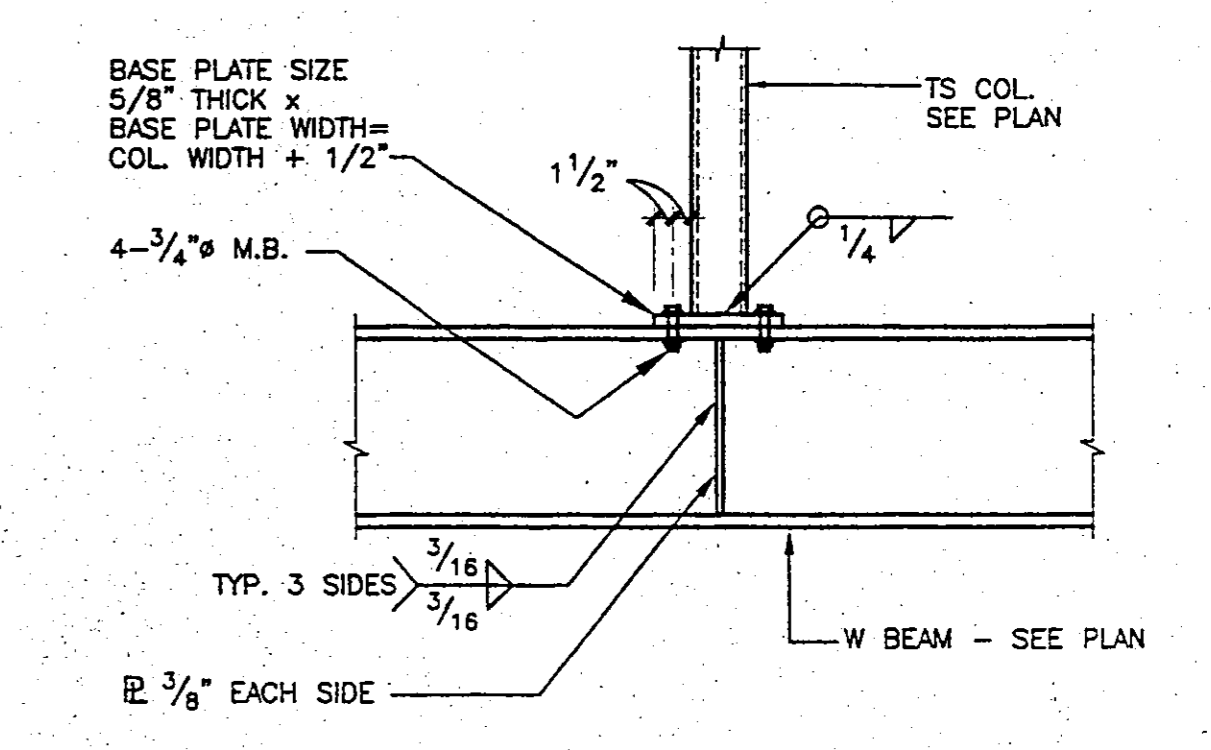
BEAM CONNECTION SCHEDULE (1)					
BEAM DEPTH D1 & D2	SHEAR PL. THICKNESS	WELD "W" (2)	NUMBER OF BOLTS (3) (4)	ASD CONNECTION CAPACITY (KIPS)	LRFD CONNECTION CAPACITY, ϕR_n (KIPS) (5)
C8, C10	1/4"	3/16"	2-7/8" ϕ	11.1 K	19.0 K
C12	1/4"	3/16"	3-7/8" ϕ	22.1 K	37.9 K
W8 TO W10	1/4"	3/16"	2-7/8" ϕ	11.1 K	19.0 K
W12 TO W14	3/8"	3/16"	3-7/8" ϕ	22.1 K	35.1 K
W16	3/8"	1/4"	4-7/8" ϕ	35.4 K	58.5 K
W18	3/8"	1/4"	5-7/8" ϕ	49.1 K	81.6 K
W21	3/8"	1/4"	6-7/8" ϕ	62.7 K	97.9 K
W24	1/2"	1/4"	7-7/8" ϕ	76.4 K	114.0 K
W27	1/2"	1/4"	7-7/8" ϕ	76.4 K	114.0 K
W30	1/2"	1/4"	7-7/8" ϕ	76.4 K	114.0 K
W33	1/2"	1/4"	7-7/8" ϕ	76.4 K	114.0 K
W36	1/2"	1/4"	7-7/8" ϕ	76.4 K	114.0 K

- (1) NUMBER OF BOLTS, SHEAR PL., WELD SIZE & BOLT GRADE TYP. U.N.O. ON PLANS
- (2) WELD SHALL CONFORM WITH A.W.S.
- (3) ALL BOLTS TO BE A325N IN SINGLE SHEAR U.N.O.
- (4) BOLT SPACING TO BE 3"
- (5) CAPACITY BASED ON $\phi = 0.75$
- (6) BEAMS ON GRID LINES INDICATED AS "STRUT" SHALL RECEIVE A325 S.C. BOLTS

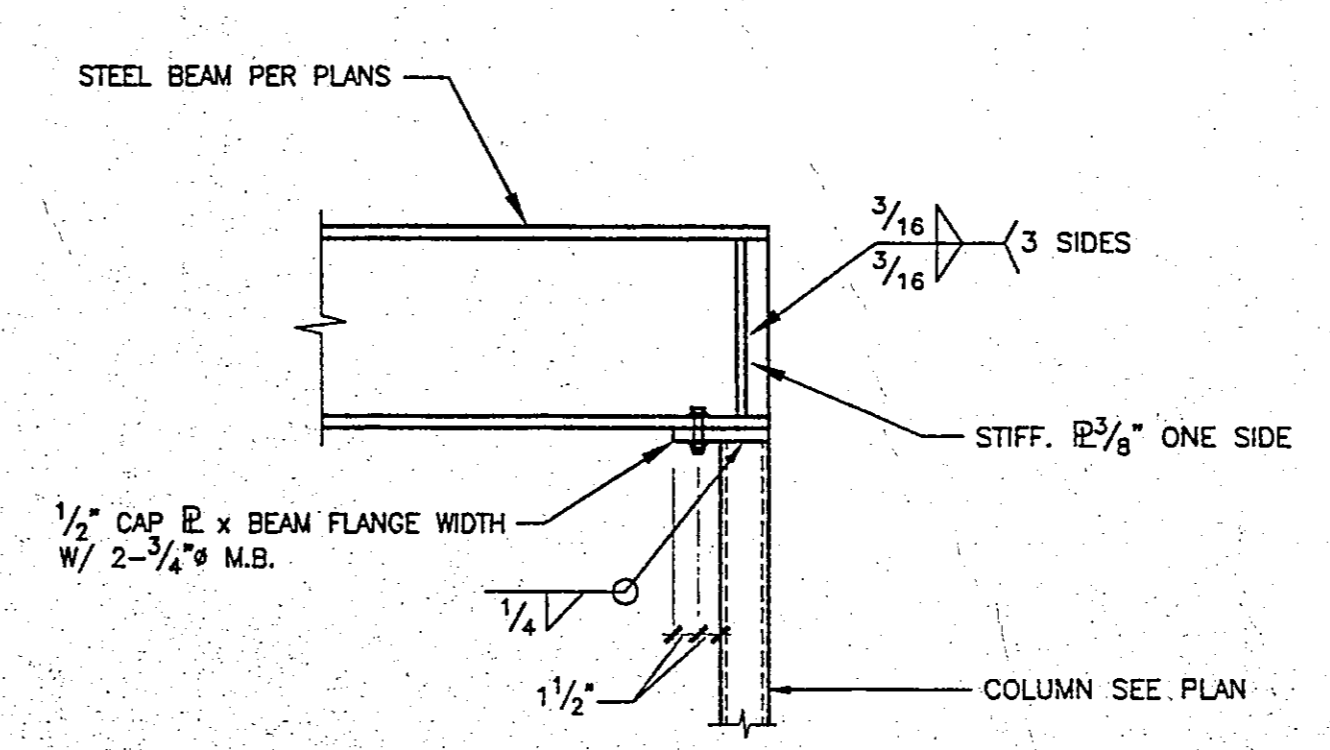
BEAM TO BEAM CONNECTIONS



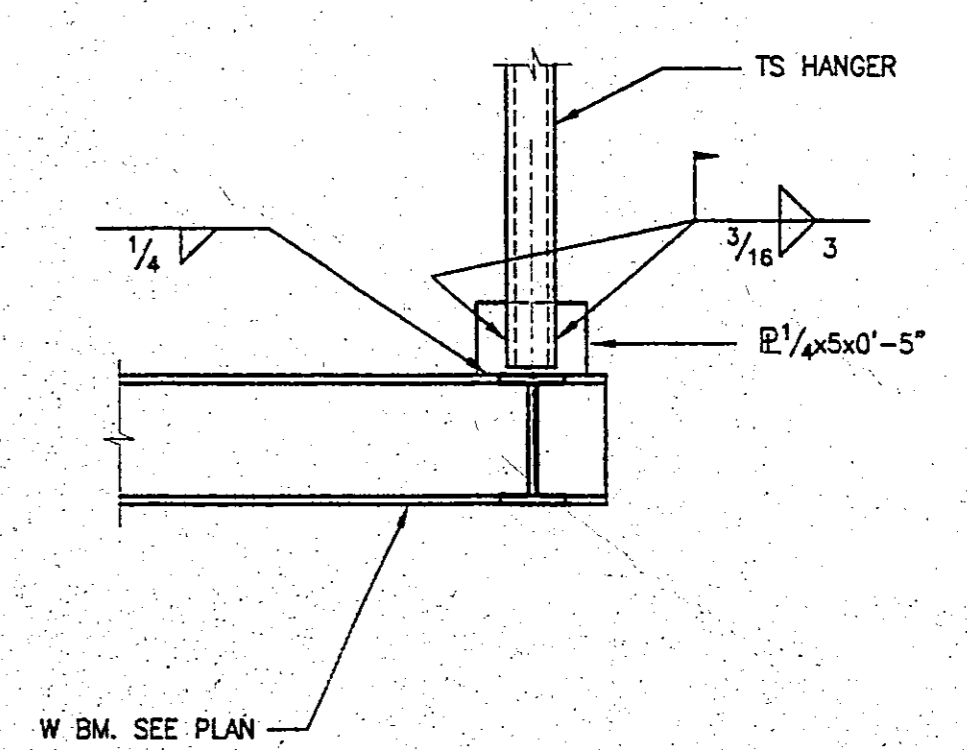
TS COL. TO DBL. WIDE FLANGE BEAMS (11)



PIPE COLUMN CONN. (7)

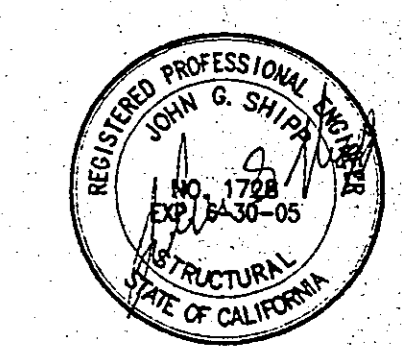


TS COL. TO SINGLE WIDE FLANGE BEAMS (12)



HANGING BEAM CONN. (8)

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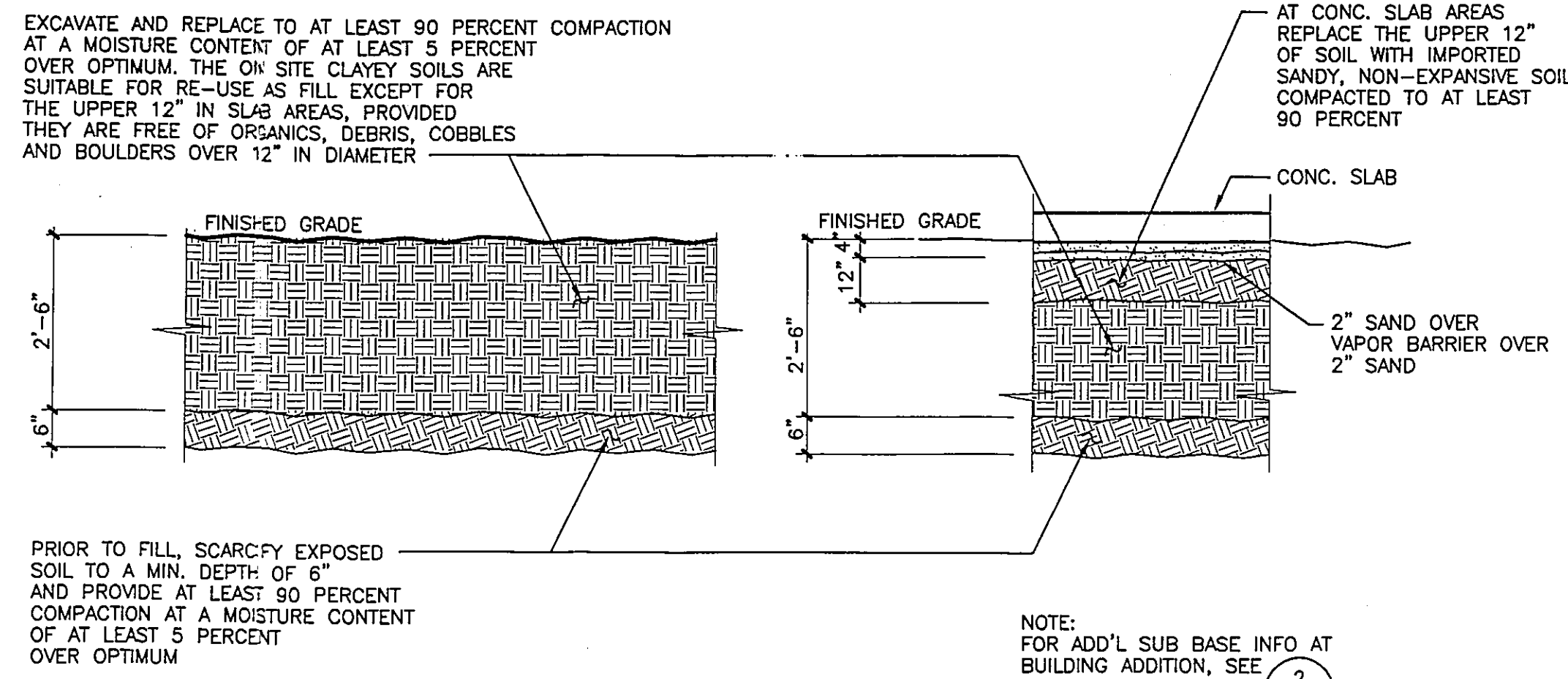
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TYPICAL DETAILS

DRAWN	DW
CHECKED	SR
DATE	
SCALE	1"=1'-0"
JOB. NO.	2003M.01
SHEET	

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SEE DRAWINGS DO NOT OBTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY



GENERAL CONDITION

ALL STRUCTURAL AREAS INCLUDING ALL FOOTINGS AND SLABS, WALKWAYS, AMPHITHEATER SERVICE YARDS AND PAVEMENTS

NOTE: REFERENCE PAGE 5 OF SOILS REPORT DATED OCTOBER 24/28 1997

COMPACTION AND OVER-EXCAVATION REQUIREMENTS

1

COLUMN MARK	COLUMN	REMARKS
C1	TS6x4x ⁵ / ₁₆	SEE 4/S4.1
C2	TS6x6 ¹ / ₂	SEE 4/S4.1
C3	4x4 WOOD POST	SEE 3/S4.1
C4	6x6 WOOD POST	SEE 3/S4.1 U.N.O.
C5	6x6 WOOD POST	SEE 3/S4.1
C6	8x8 WOOD POST	SEE 3/S4.1
C7	TS8x6x ⁵ / ₁₆	SEE 4/S4.1

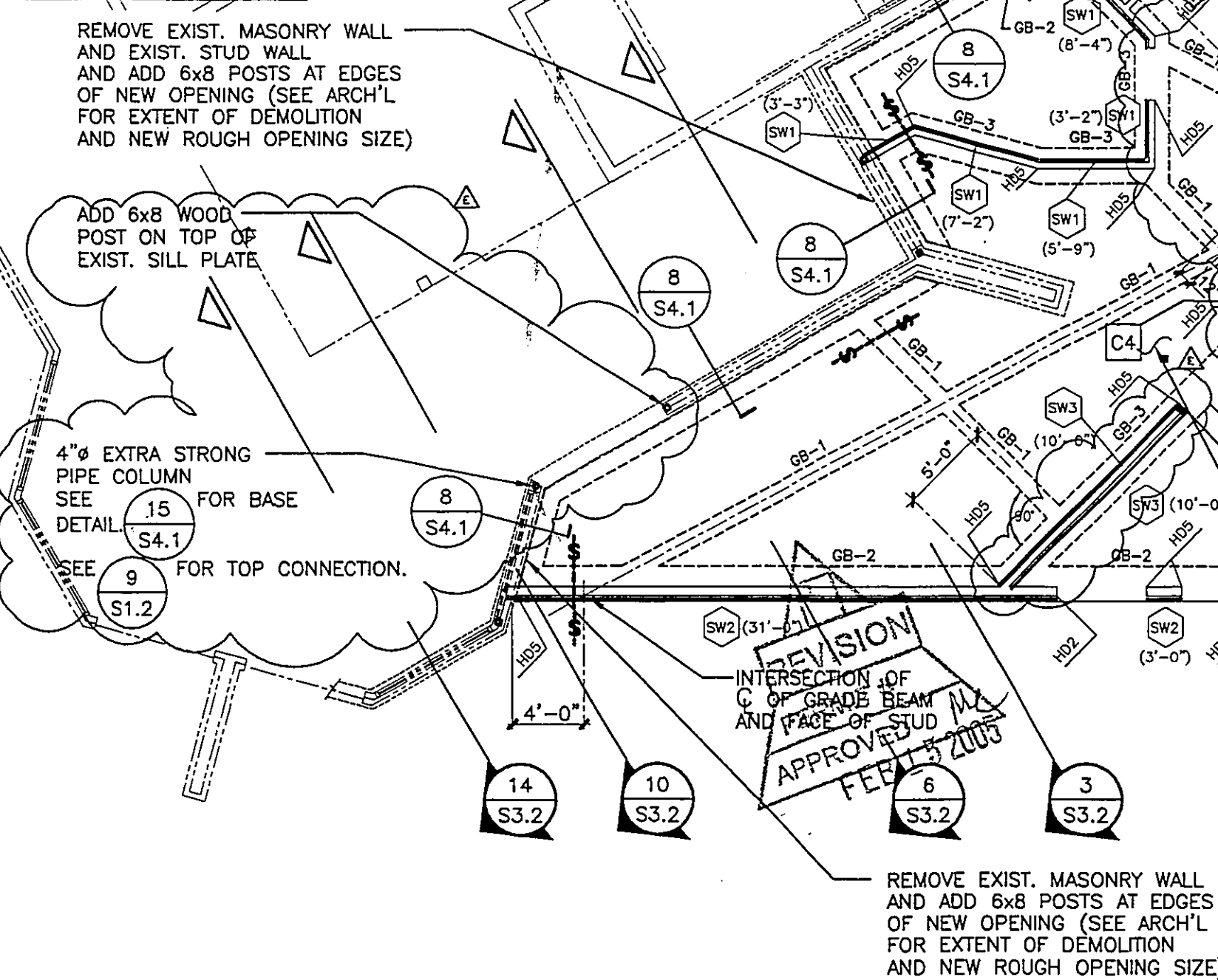
GRADE BEAM MARK	GRADE BEAM SIZE	REINF.
GB-1	1'-0" WIDE x 2'-0" DEEP CONT.	2-#5 T&B W/ #3 TIES @ 10" O.C.
GB-2	2'-0" WIDE x 2'-0" DEEP CONT.	2-#6 T&B W/ #3 TIES @ 10" O.C.
GB-3	2'-0" WIDE x 2'-0" DEEP CONT.	2-#7 T&B W/ #3 TIES @ 10" O.C.
GB-4	3'-0" WIDE x 2'-0" DEEP CONT.	3-#8 T&B W/ #3 TIES @ 10" O.C.
GB-5	3'-6" WIDE x 2'-0" DEEP x 6'-0" LONG	3-#8 T&B W/ #4 TIES @ 10" O.C.
GB-6	3'-6" WIDE x 2'-0" DEEP x 9'-0" LONG	3-#8 T&B W/ #4 TIES @ 10" O.C.
GB-7	3'-0" WIDE x 2'-0" DEEP CONT.	3-#8 T&B W/ #3 TIES @ 10" O.C.
GB-8 *	3'-0" WIDE x 2'-0" DEEP CONT.	3-#8 T&B W/ #3 TIES @ 10" O.C.

FOOTING MARK	FOOTING SIZE (WxLxD)	REINF.
F1	4'-0" x 4'-0" x 2'-0" DEEP	5-#5 EA. WAY T&B
F2	6'-0" x 6'-0" x 2'-0" DEEP	6-#7 EA. WAY T&B
F3	4'-6" x 20'-6" x 2'-0" DEEP	5-#8 T&B W/ #3 TIES @ 10" O.C.
F4	2'-0" x 2'-0" x 3'-0" DEEP	2-#5 EA. WAY T&B *
F5	3'-0" x 3'-0" x 3'-0" DEEP	4-#5 EA. WAY T&B **
F6	4'-6" x 4'-6" x 2'-0" DEEP	5-#6 EA. WAY T&B

* PROVIDE 2-#4 INTERMEDIATE BARS EA. WAY
** PROVIDE 3-#4 INTERMEDIATE BARS EA. WAY

MARK	PLYWOOD TYPE	NAILING	SILL PLATE ATTACHMENT
SW1	1/2" PLYWOOD STRUCT 1 ALLOW = 340 PLF	10d @ 6" O.C. EDGES 10d @ 12" O.C. FIELD	5/8" A.B. @ 24" O.C.
SW2	1/2" PLYWOOD STRUCT 1 ALLOW = 510 PLF	10d @ 4" O.C. EDGES 10d @ 12" O.C. FIELD	5/8" A.B. @ 18" O.C. 5/8" A.B. @ 12" O.C. (SEE NOTE 2 BELOW)
SW3	1/2" PLYWOOD STRUCT 1 ALLOW = 665 PLF	10d @ 3" O.C. EDGES 10d @ 12" O.C. FIELD	5/8" A.B. @ 12" O.C. 5/8" A.B. @ 9" O.C. (SEE NOTE 2 BELOW)

NOTES:
1. SHEAR WALL TYPES SW1 AND SW2 SHALL HAVE 3x BLOCKING, 3x STUDS, 3x SILL PLATES AND ONE OF THE TOP PLATES SHALL BE 3x AT ALL PLYWOOD PANEL EDGES.
2. USE WHERE PLYWOOD IS APPLIED ON BOTH SIDES OF THE STUD WALL



LEGEND:

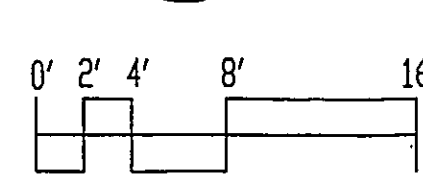
- INDICATES NEW 1/2" STRUCTURAL I PLYWOOD (24/0) BLOCKED SEE DETAIL 17 AND SCHEDULE ON THIS SHEET FOR PLYWOOD NAILING.
- INDICATES LENGTH OF SHEARWALL. THESE DIMENSIONS ARE APPROXIMATE AND ACTUAL WALL LENGTH WITHIN 12" OF THESE DIMENSIONS ARE ACCEPTABLE.
- INDICATES ADDITION OF SIMPSON HOLD-DOWN SEE 18 FOR ADDITIONAL HOLD-DOWN INFORMATION.
- INDICATES NEW PLYWOOD SHEATHING AND SIDE OF APPLICATION, SEE REFERENCED DETAILS FOR SHEATHING TYPE AND FASTENER REQUIREMENTS.
- INDICATES POST COLUMN SIZE PER COLUMN SCHEDULE THIS SHEET.
- INDICATES PAD FOOTING SIZE & REINFORCING PER FOOTING SCHEDULE THIS SHEET.
- INDICATES AREA AND EXTENTS OF 2" DEPRESSED CONC. SLAB PER 16/S1.1, U.N.O.
- INDICATES 3x8 STUDS WALL FRAMING @ 16" O.C.
- INDICATES A STEP IN BOT. OF FOOTING ELEV. PER 10/S1.1 SIM.

NOTES:

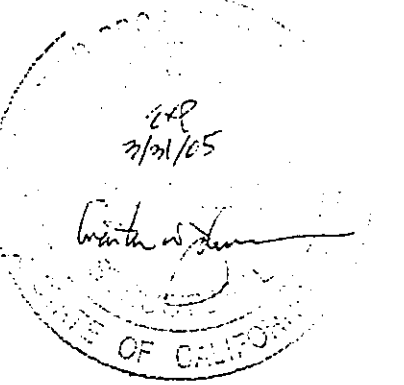
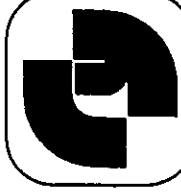
- TOP OF FINISH FLOOR DATUM = 0'-0"
- SEE SHEET S1.1 THROUGH S1.4 FOR TYPICAL DETAILS.
- ALL EXTERIOR AND INTERIOR WALLS SHALL BE CONSTRUCTED OF 2x6 STUDS AT 16" O.C. U.N.O. ON FOUNDATION PLAN AND SHEAR WALL SCHEDULE ON THIS SHEET.
- ALL INTERIOR NON-BEARING PARTITION WALLS SHALL BE CONSTRUCTED OF 2x4 STUDS AT 16" O.C. U.N.O.
- CONTRACTOR SHALL SUBMIT LAYOUT OF CONSTRUCTION/CONTROL JOINTS FOR GRADE BEAMS/CONC. SLABS FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- DIMENSIONS PROVIDED ARE FOR REFERENCE ONLY, SEE ARCHITECTURAL DWG'S FOR ALL DIMENSIONS. COLUMNS ARE LOCATED AT CENTERLINE OF STUD WALL TYP.
- SEE DETAILS 3/S1.2 AND 8/S1.2 FOR TYPICAL STUD WALL FRAMING AND 5/S1.2 FOR OPENINGS IN PLYWOOD SHEARWALL.
- SEE DETAILS 10/S1.2 AND 15/S1.2 FOR SHEARWALL INTERSECTION AT ITS COLUMNS AND 20/S1.2 FOR INTERSECTING SHEARWALLS.
- NO HOLD-DOWNS ARE REQUIRED WHERE STEEL COLUMNS OCCUR AT THE EDGE OF THE PLYWOOD SHEARWALL. SEE DETAILS 10/S1.2 AND 15/S1.2 FOR ATTACHMENT OF SHEARWALL TO THE STEEL COLUMN.
- THE LOCATION AND ELEVATION OF THE FOUNDATION FORMS SHALL BE CERTIFIED BY A LICENSED SURVEYOR/REGISTERED CIVIL ENGINEER ON A FORM PROVIDED BY THE CITY BEFORE APPROVAL OF THE FOUNDATION BY THE BUILDING AND SAFETY DIVISION.
- FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY BOTH THE GEOLOGICAL AND GEOTECHNICAL CONSULTANTS PRIOR TO PLACEMENT OF STEEL OR CONCRETE. A MEMORANDUM SIGNED BY BOTH CONSULTANTS INDICATING THAT THIS INSPECTION AND APPROVAL HAS BEEN COMPLETED SHALL BE PROVIDED AT THE JOB SITE FOR THE BUILDING INSPECTOR AT FOUNDATION INSPECTION.
- PRE-SATURATION MEMO FROM SOILS ENGINEER REQUIRED PRIOR TO PRE-SLAB INSPECTION.
- WHERE FOUNDATION WALLS EXCEED 4'-0" IN HEIGHT/DEPTH FOR ANY REASON, PROVIDE STEM WALL REINFORCING MINIMUM #4@24" O.C. BOTH WAYS.

FOUNDATION PLAN

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



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POINT VICENTE INTERPRETIVE CENTER EXPANSION
31501 Palos Verdes Drive West
Rancho Palos Verdes, CA

FOUNDATION PLAN

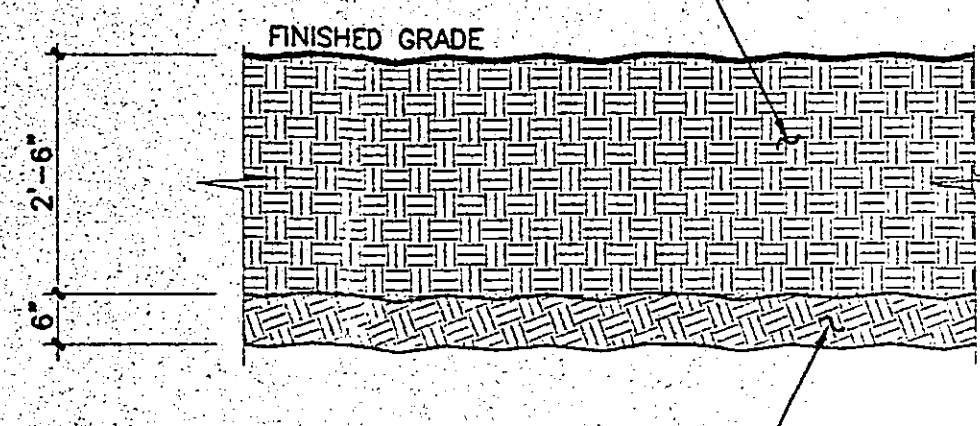
DRAWN DW
CHECKED SA
DATE
SCALE 6 INCHES
JOB NO. 285541
SHEET

S2.1

OF SHEETS

EXCAVATE AND REPLACE TO AT LEAST 90 PERCENT COMPACTION AT A MOISTURE CONTENT OF AT LEAST 5 PERCENT OVER OPTIMUM. THE ON SITE CLAYEY SOILS ARE SUITABLE FOR RE-USE AS FILL EXCEPT FOR THE UPPER 12" IN SLAB AREAS, PROVIDED THEY ARE FREE OF ORGANICS, DEBRIS, COBBLES AND BOULDERS OVER 12" IN DIAMETER.

AT CONC. SLAB AREAS REPLACE THE UPPER 12" OF SOIL WITH IMPORTED SANDY, NON-EXPANSIVE SOIL COMPACTED TO AT LEAST 90 PERCENT.



PRIOR TO FILL, SCARIFY EXPOSED SOIL TO A MIN. DEPTH OF 6" AND PROVIDE AT LEAST 90 PERCENT COMPACTION AT A MOISTURE CONTENT OF AT LEAST 5 PERCENT OVER OPTIMUM.

NOTE: FOR ADD'L SUB BASE INFO AT BUILDING ADDITION, SEE S4.1

ALL STRUCTURAL AREAS INCLUDING ALL FOOTINGS AND SLABS, WALKWAYS, AMPHITHEATER SERVICE YARDS AND PAVEMENTS

GENERAL CONDITION

NOTE: REFERENCE PAGE 5 OF SOILS REPORT DATED OCTOBER 24/28 1997

COMPACTION AND OVER-EXCAVATION REQUIREMENTS

1

PLAN CHECK SUBMITAL 9-28-99
 PLAN CHECK COMMENTS 1-15-99
 COORDINATION 9-7-99
 2001 CBC UPDATE 11-18-03

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 (949) 236-0449
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT

REGISTERED PROFESSIONAL ENGINEER
 STRUCTURAL
 STATE OF CALIFORNIA
 No. 1724
 DATE 08-30-05

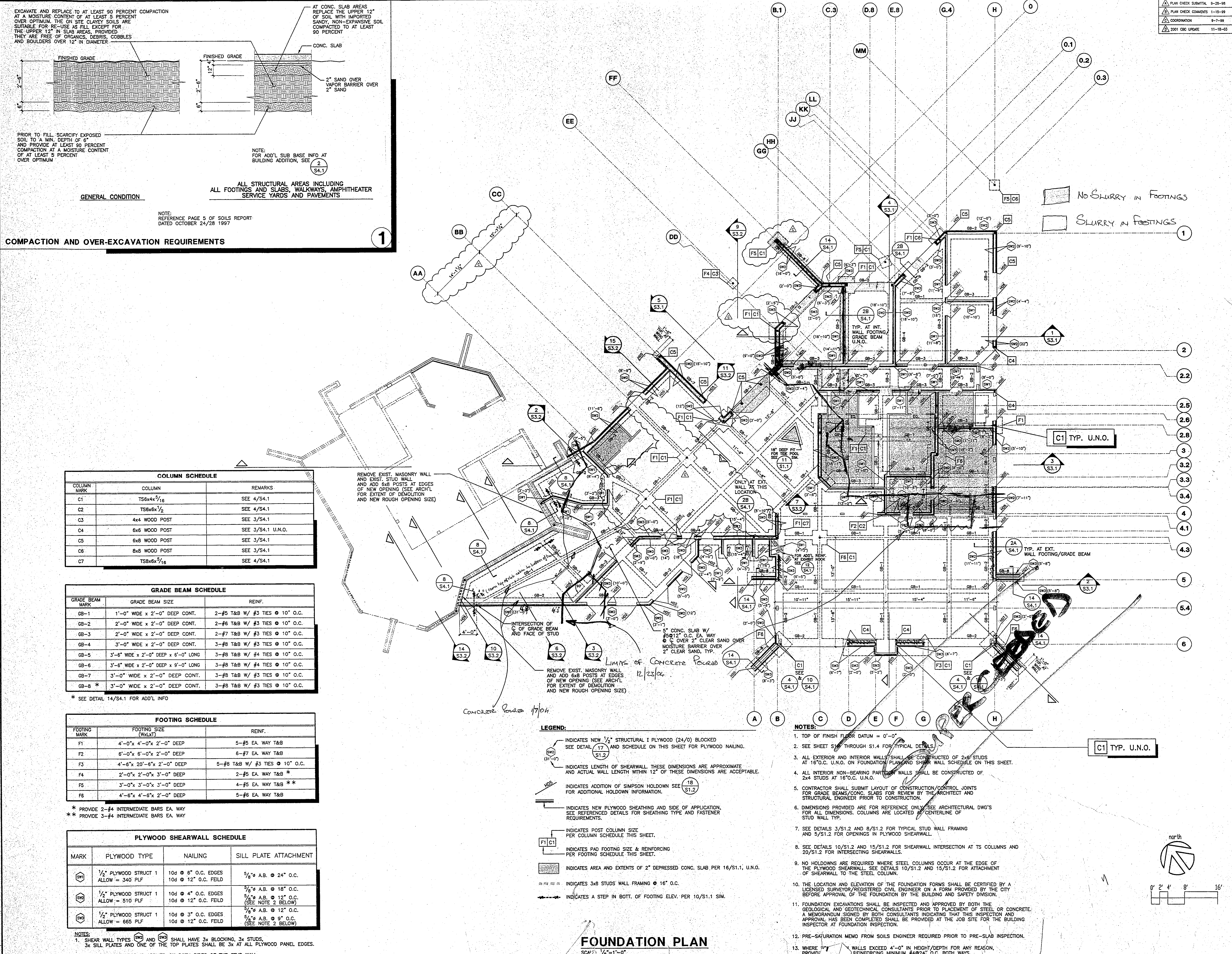
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 Fax (714) 734-4272

POINT VICENTE INTERPRETIVE
 CENTER EXPANSION
 31501 Palms Verdes Drive West
 Rancho Palms Verdes, CA

FOUNDATION PLAN

DRAWN DW
 CHECKED SW
 DATE
 SCALE 8/16
 JOB NO. 2001M
 SHEET

S2.1



COLUMN MARK	COLUMN	REMARKS
C1	TS6x4x5/16	SEE 4/S4.1
C2	TS6x6x1/2	SEE 4/S4.1
C3	4x4 WOOD POST	SEE 3/S4.1
C4	6x6 WOOD POST	SEE 3/S4.1 U.N.O.
C5	6x8 WOOD POST	SEE 3/S4.1
C6	8x8 WOOD POST	SEE 3/S4.1
C7	TS8x6x5/16	SEE 4/S4.1

GRADE BEAM MARK	GRADE BEAM SIZE	REINF.
GB-1	1'-0" WIDE x 2'-0" DEEP CONT.	2-#5 T&B W/ #3 TIES @ 10" O.C.
GB-2	2'-0" WIDE x 2'-0" DEEP CONT.	2-#6 T&B W/ #3 TIES @ 10" O.C.
GB-3	2'-0" WIDE x 2'-0" DEEP CONT.	2-#7 T&B W/ #3 TIES @ 10" O.C.
GB-4	3'-0" WIDE x 2'-0" DEEP CONT.	3-#8 T&B W/ #3 TIES @ 10" O.C.
GB-5	3'-6" WIDE x 2'-0" DEEP x 6'-0" LONG	3-#8 T&B W/ #4 TIES @ 10" O.C.
GB-6	3'-6" WIDE x 2'-0" DEEP x 9'-0" LONG	3-#8 T&B W/ #4 TIES @ 10" O.C.
GB-7	3'-0" WIDE x 2'-0" DEEP CONT.	3-#8 T&B W/ #3 TIES @ 10" O.C.
GB-8 *	3'-0" WIDE x 2'-0" DEEP CONT.	3-#8 T&B W/ #3 TIES @ 10" O.C.

* SEE DETAIL 14/S4.1 FOR ADD'L INFO

FOOTING MARK	FOOTING SIZE (WxLxD)	REINF.
F1	4'-0"x 4'-0"x 2'-0" DEEP	5-#5 EA. WAY T&B
F2	6'-0"x 6'-0"x 2'-0" DEEP	6-#7 EA. WAY T&B
F3	4'-6"x 20'-6"x 2'-0" DEEP	5-#8 T&B W/ #3 TIES @ 10" O.C.
F4	2'-0"x 2'-0"x 3'-0" DEEP	2-#5 EA. WAY T&B *
F5	3'-0"x 3'-0"x 3'-0" DEEP	4-#5 EA. WAY T&B **
F6	4'-6"x 4'-6"x 2'-0" DEEP	5-#6 EA. WAY T&B

* PROVIDE 2-#4 INTERMEDIATE BARS EA. WAY
 ** PROVIDE 3-#4 INTERMEDIATE BARS EA. WAY

MARK	PLYWOOD TYPE	NAILING	SILL PLATE ATTACHMENT
SW1	1/2" PLYWOOD STRUCT 1 ALLOW = 340 PLF	10d @ 8" O.C. EDGES 10d @ 12" O.C. FIELD	5/8" A.B. @ 24" O.C.
SW2	1/2" PLYWOOD STRUCT 1 ALLOW = 510 PLF	10d @ 4" O.C. EDGES 10d @ 12" O.C. FIELD	5/8" A.B. @ 18" O.C. (SEE NOTE 2 BELOW)
SW3	1/2" PLYWOOD STRUCT 1 ALLOW = 665 PLF	10d @ 3" O.C. EDGES 10d @ 12" O.C. FIELD	5/8" A.B. @ 12" O.C. 5/8" A.B. @ 9" O.C. (SEE NOTE 2 BELOW)

NOTES:
 1. SHEAR WALL TYPES SW1 AND SW2 SHALL HAVE 3x BLOCKING, 3x STUDS. 3x SILL PLATES AND ONE OF THE TOP PLATES SHALL BE 3x AT ALL PLYWOOD PANEL EDGES.
 2. USE WHERE PLYWOOD IS APPLIED ON BOTH SIDES OF THE STUD WALL

- LEGEND:
- INDICATES NEW 1/2" STRUCTURAL I PLYWOOD (24/0) BLOCKED SEE DETAIL 17 AND SCHEDULE ON THIS SHEET FOR PLYWOOD NAILING.
 - INDICATES LENGTH OF SHEARWALL. THESE DIMENSIONS ARE APPROXIMATE AND ACTUAL WALL LENGTH WITHIN 12" OF THESE DIMENSIONS ARE ACCEPTABLE.
 - INDICATES ADDITION OF SIMPSON HOLDOWN SEE 18/S1.2 FOR ADDITIONAL HOLDOWN INFORMATION.
 - INDICATES NEW PLYWOOD SHEATHING AND SIDE OF APPLICATION, SEE REFERENCED DETAILS FOR SHEATHING TYPE AND FASTENER REQUIREMENTS.
 - INDICATES POST COLUMN SIZE PER COLUMN SCHEDULE THIS SHEET.
 - INDICATES PAD FOOTING SIZE & REINFORCING PER FOOTING SCHEDULE THIS SHEET.
 - INDICATES AREA AND EXTENTS OF 2" DEPRESSED CONC. SLAB PER 16/S1.1, U.N.O.
 - INDICATES 3x8 STUDS WALL FRAMING @ 16" O.C.
 - INDICATES A STEP IN BOTT. OF FOOTING ELEV. PER 10/S1.1 S.M.

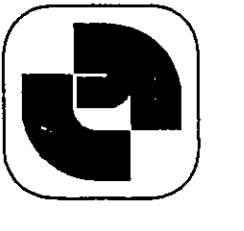
- NOTES:
- TOP OF FINISH FLOOR DATUM = 0'-0"
 - SEE SHEET S11 THROUGH S14 FOR TYPICAL DETAILS.
 - ALL EXTERIOR AND INTERIOR WALLS SHALL BE CONSTRUCTED OF 2x8 STUDS AT 16" O.C. U.N.O. ON FOUNDATION PLAN AND SHEAR WALL SCHEDULE ON THIS SHEET.
 - ALL INTERIOR NON-BEARING PARTITION WALLS SHALL BE CONSTRUCTED OF 2x4 STUDS AT 16" O.C. U.N.O.
 - CONTRACTOR SHALL SUBMIT LAYOUT OF CONSTRUCTION/CONTROL JOINTS FOR GRADE BEAMS/CONC. SLABS FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
 - DIMENSIONS PROVIDED ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DWG'S FOR ALL DIMENSIONS. COLUMNS ARE LOCATED AT CENTERLINE OF STUD WALL TYP.
 - SEE DETAILS 3/S1.2 AND 8/S1.2 FOR TYPICAL STUD WALL FRAMING AND 5/S1.2 FOR OPENINGS IN PLYWOOD SHEARWALL.
 - SEE DETAILS 10/S1.2 AND 15/S1.2 FOR SHEARWALL INTERSECTION AT TS COLUMNS AND 20/S1.2 FOR INTERSECTING SHEARWALLS.
 - NO HOLDOWNS ARE REQUIRED WHERE STEEL COLUMNS OCCUR AT THE EDGE OF THE PLYWOOD SHEARWALL. SEE DETAILS 10/S1.2 AND 15/S1.2 FOR ATTACHMENT OF SHEARWALL TO THE STEEL COLUMN.
 - THE LOCATION AND ELEVATION OF THE FOUNDATION FORMS SHALL BE CERTIFIED BY A LICENSED SURVEYOR/REGISTERED CIVIL ENGINEER ON A FORM PROVIDED BY THE CITY BEFORE APPROVAL OF THE FOUNDATION BY THE BUILDING AND SAFETY DIVISION.
 - FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY BOTH THE GEOLOGICAL AND GEOTECHNICAL CONSULTANTS PRIOR TO PLACEMENT OF STEEL OR CONCRETE. A MEMORANDUM SIGNED BY BOTH CONSULTANTS INDICATING THAT THIS INSPECTION AND APPROVAL HAS BEEN COMPLETED SHALL BE PROVIDED AT THE JOB SITE FOR THE BUILDING INSPECTOR AT FOUNDATION INSPECTION.
 - PRE-SATURATION MEMO FROM SOILS ENGINEER REQUIRED PRIOR TO PRE-SLAB INSPECTION.
 - WHERE WALLS EXCEED 4'-0" IN HEIGHT/DEPTH FOR ANY REASON, REINFORCING MINIMUM #4@24" O.C. BOTH WAYS.

FOUNDATION PLAN

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

PLAN CHECK SUBMITAL	9-28-99
PLAN CHECK COMMENTS	1-15-99
COORDINATION	9-7-99
2001 CBC UPDATE	11-18-03
C.D.	1-28-05

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PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



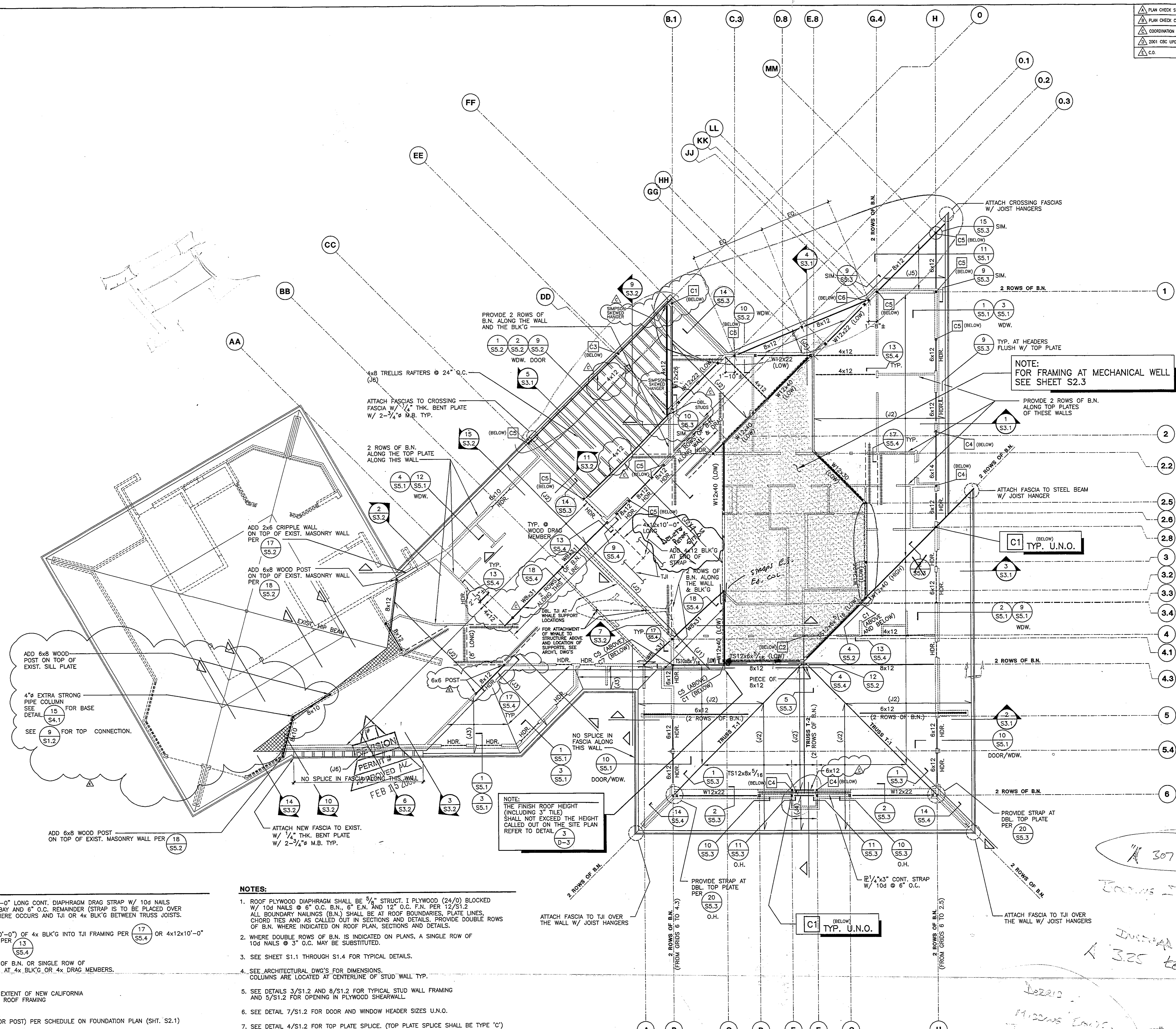
3/1/05
C. Yeo

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POINT VICENTE INTERPRETIVE CENTER EXPANSION
31501 Palms Verdes Drive, West
Rancho Palms Verdes, CA

ROOF FRAMING PLAN

DRAWN
CHECKED
DATE
SCALE
JOB NO.
SHEET
S2.2
OF SHEETS



NOTE:
FOR FRAMING AT MECHANICAL WELL
SEE SHEET S2.3

NOTE:
THE FINISH ROOF HEIGHT
(INCLUDING 3" TILE)
SHALL NOT EXCEED THE HEIGHT
CALLED OUT ON THE SITE PLAN
REFER TO DETAIL 3

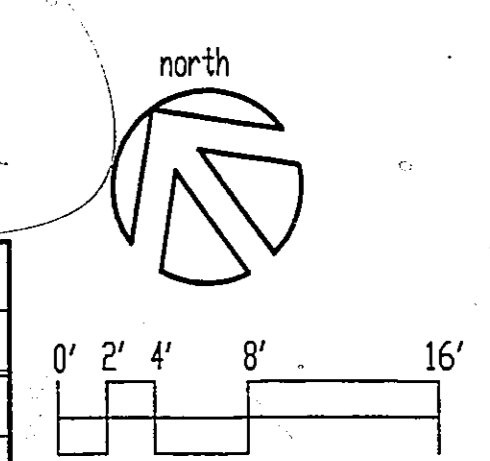
- LEGEND:**
- INDICATES 1/4"x3"x10'-0" LONG CONT. DIAPHRAGM DRAG STRAP W/ 10d NAILS @ 3" O.C. AT FIRST BAY AND 6" O.C. REMAINDER (STRAP IS TO BE PLACED OVER WALL DBL TOP PLATE WHERE OCCURS AND TJI OR 4x BLK'G BETWEEN TRUSS JOISTS)
 - INDICATES EXTENT (10'-0") OF 4x BLK'G INTO TJI FRAMING PER (17) OR 4x12x10'-0" LONG DRAG MEMBER PER (13)
 - PROVIDE DBL. ROWS OF B.N. OR SINGLE ROW OF 10d NAILS @ 3" O.C. AT 4x BLK'G OR 4x DRAG MEMBERS.
 - INDICATES AREA AND EXTENT OF NEW CALIFORNIA FRAMING OVER EXIST. ROOF FRAMING
 - INDICATES COLUMN (OR POST) PER SCHEDULE ON FOUNDATION PLAN (SHT. S2.1)

- NOTES:**
- ROOF PLYWOOD DIAPHRAGM SHALL BE 5/8" STRUCT. I PLYWOOD (24/0) BLOCKED W/ 10d NAILS @ 6" O.C. B.N., 6" E.N. AND 12" O.C. F.N. PER 12/S1.2 ALL BOUNDARY NAILINGS (B.N.) SHALL BE AT ROOF BOUNDARIES, PLATE LINES, CHORD TIES AND AS CALLED OUT IN SECTIONS AND DETAILS. PROVIDE DOUBLE ROWS OF B.N. WHERE INDICATED ON ROOF PLAN, SECTIONS AND DETAILS.
 - WHERE DOUBLE ROWS OF B.N. IS INDICATED ON PLANS, A SINGLE ROW OF 10d NAILS @ 3" O.C. MAY BE SUBSTITUTED.
 - SEE SHEET S1.1 THROUGH S1.4 FOR TYPICAL DETAILS.
 - SEE ARCHITECTURAL DWG'S FOR DIMENSIONS. STUD WALL TYP. COLUMNS ARE LOCATED AT CENTERLINE OF STUD WALL TYP.
 - SEE DETAILS 3/S1.2 AND 8/S1.2 FOR TYPICAL STUD WALL FRAMING AND 5/S1.2 FOR OPENING IN PLYWOOD SHEARWALL.
 - SEE DETAIL 7/S1.2 FOR DOOR AND WINDOW HEADER SIZES U.N.O.
 - SEE DETAIL 4/S1.2 FOR TOP PLATE SPLICE. (TOP PLATE SPLICE SHALL BE TYPE 'C')
 - FOR TYPICAL STEEL BEAM TO COL. CONNECTIONS SEE DETAILS ON SHEET S1.4, FOR TYPICAL TRUSS JOIST TO STEEL BEAM CONNECTIONS SEE DETAIL 8/S1.3, FOR TYPICAL WOOD BEAM TO WOOD/STEEL POST CONNECTIONS SEE DETAIL 9/S1.2.
 - SEE ARCH'L DWG'S FOR WALL TOP PLATE ELEVATION AND ROOF HEIGHTS, TYP.
 - FOR TRUSS T-1 AND T-2 PROFILES SEE SHEET S6.1
 - FOR OPENING SIZES AND LOCATIONS SEE ARCH'L AND MECH'L DWG'S.
 - 3x12 FASCIA MEMBER SHALL BE CONTINUOUS. SPLICE PER DETAIL 10/S5.5 MIN. DISTANCE BETWEEN SPLICES SHALL BE 20'-0".

ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

ROOF JOIST SCHEDULE

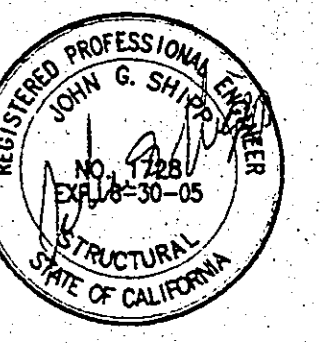
MARK	JOIST SIZE AND SPACING
J1	11 1/8" DEEP TJI L65 @ 16" O.C.
J2	11 7/8" DEEP TJI L90 @ 16" O.C.
J3	11 7/8" DEEP TJI L65 @ 24" O.C.
J4	2x6 @ 16" O.C.
J5	4x8 @ 16" O.C.
J6	4x8 @ 24" O.C.



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PLAN CHECK SUBMITAL	9-28-98
PLAN CHECK COMMENTS	1-15-99
COORDINATION	9-7-99
2001 CDC UPDATE	11-18-03

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 PHONE: 714-948-6444
 FAX: 714-948-6449
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT

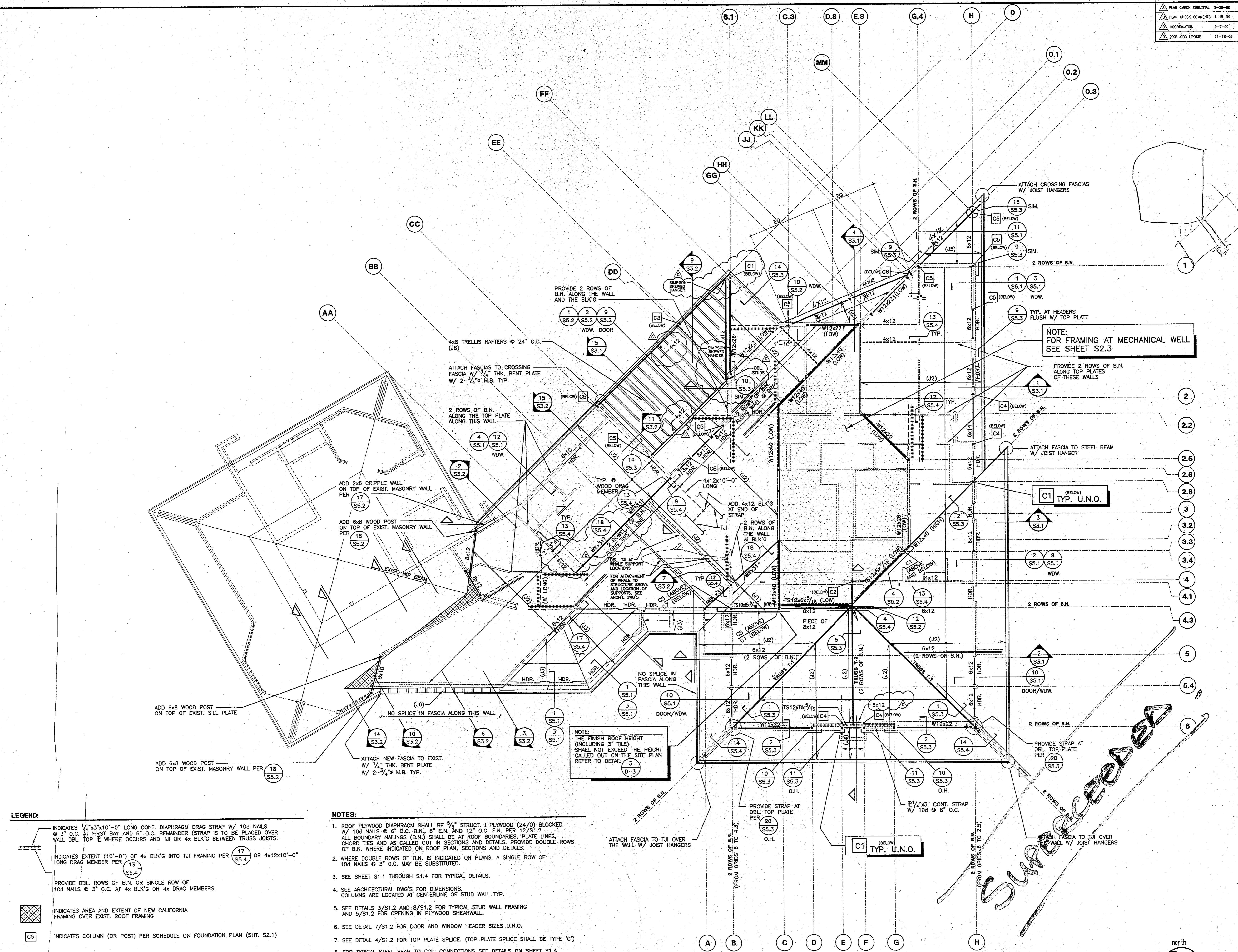


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 Fax: (714) 734-4272

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

ROOF FRAMING PLAN

DRAWN BY: SW
 CHECKED BY: SW
 DATE: 11/18/03
 SCALE: AS SHOWN
 JOB NO.: 20030401
 SHEET: S2.2



LEGEND:

- INDICATES 1/4"x3"x10'-0" LONG CONT. DIAPHRAGM DRAG STRAP W/ 10d NAILS @ 3" O.C. AT FIRST BAY AND 6" O.C. REMAINDER (STRAP IS TO BE PLACED OVER WALL DBL. TOP PLATE WHERE OCCURS AND TJI OR 4x BLK'G BETWEEN TRUSS JOISTS).
- INDICATES EXTENT (10'-0") OF 4x BLK'G INTO TJI FRAMING PER (17) OR 4x12x10'-0" LONG DRAG MEMBER PER (13)
- PROVIDE DBL. ROWS OF B.N. OR SINGLE ROW OF 10d NAILS @ 3" O.C. AT 4x BLK'G OR 4x DRAG MEMBERS.
- INDICATES AREA AND EXTENT OF NEW CALIFORNIA FRAMING OVER EXIST. ROOF FRAMING
- INDICATES COLUMN (OR POST) PER SCHEDULE ON FOUNDATION PLAN (SHT. S2.1)

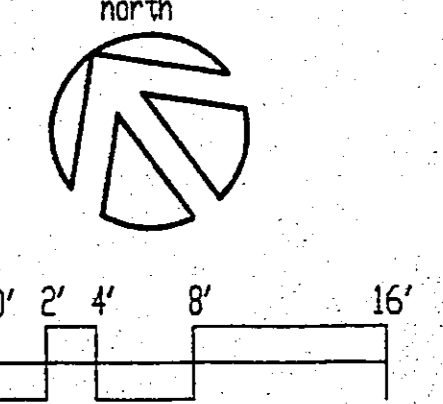
NOTES:

- ROOF PLYWOOD DIAPHRAGM SHALL BE 5/8" STRUCT. I PLYWOOD (24/0) BLOCKED W/ 10d NAILS @ 8" O.C. B.N., 6" E.N. AND 12" O.C. F.N. PER 12/S1.2 ALL BOUNDARY NAILINGS (B.N.) SHALL BE AT ROOF BOUNDARIES, PLATE LINES, CHORD TIES AND AS CALLED OUT IN SECTIONS AND DETAILS. PROVIDE DOUBLE ROWS OF B.N. WHERE INDICATED ON ROOF PLAN, SECTIONS AND DETAILS.
- WHERE DOUBLE ROWS OF B.N. IS INDICATED ON PLANS, A SINGLE ROW OF 10d NAILS @ 3" O.C. MAY BE SUBSTITUTED.
- SEE SHEET S1.1 THROUGH S1.4 FOR TYPICAL DETAILS.
- SEE ARCHITECTURAL DWG'S FOR DIMENSIONS. COLUMNS ARE LOCATED AT CENTERLINE OF STUD WALL TYP.
- SEE DETAILS 3/S1.2 AND 8/S1.2 FOR TYPICAL STUD WALL FRAMING AND 5/S1.2 FOR OPENING IN PLYWOOD SHEARWALL.
- SEE DETAIL 7/S1.2 FOR DOOR AND WINDOW HEADER SIZES U.N.O.
- SEE DETAIL 4/S1.2 FOR TOP PLATE SPLICE. (TOP PLATE SPLICE SHALL BE TYPE 'C')
- FOR TYPICAL STEEL BEAM TO COL. CONNECTIONS SEE DETAILS ON SHEET S1.4. FOR TYPICAL TRUSS JOIST TO STEEL BEAM CONNECTIONS SEE DETAIL 8/S1.3. FOR TYPICAL WOOD BEAM TO WOOD/STEEL POST CONNECTIONS SEE DETAIL 9/S1.2.
- SEE ARCH'L DWG'S FOR WALL TOP PLATE ELEVATION AND ROOF HEIGHTS, TYP.
- FOR TRUSS T-1 AND T-2 PROFILES SEE SHEET S6.1
- FOR OPENING SIZES AND LOCATIONS SEE ARCH'L AND MECH'L DWG'S.
- 3x12 FASCIA MEMBER SHALL BE CONTINUOUS. SPLICE PER DETAIL 10/S5.5 MIN. DISTANCE BETWEEN SPLICES SHALL BE 20'-0".

ROOF FRAMING PLAN
 SCALE: 1/8"=1'-0"

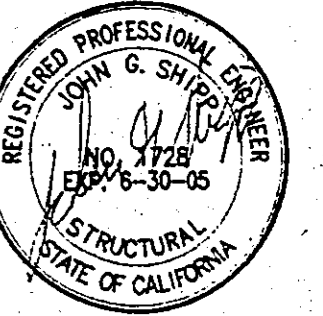
ROOF JOIST SCHEDULE

MARK	JOIST SIZE AND SPACING
J1	11 7/8" DEEP TJI L65 @ 16" O.C.
J2	11 7/8" DEEP TJI L90 @ 16" O.C.
J3	11 7/8" DEEP TJI L65 @ 24" O.C.
J4	2x6 @ 16" O.C.
J5	4x8 @ 16" O.C.
J6	4x8 @ 24" O.C.



PLAN CHECK SUBMITTAL 9-28-98
 PLAN CHECK COMMENTS 1-15-99
 2001 CBC UPDATE 11-18-03

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 500 JASMINE AVENUE, CORONA DEL MAR, CA 92625
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



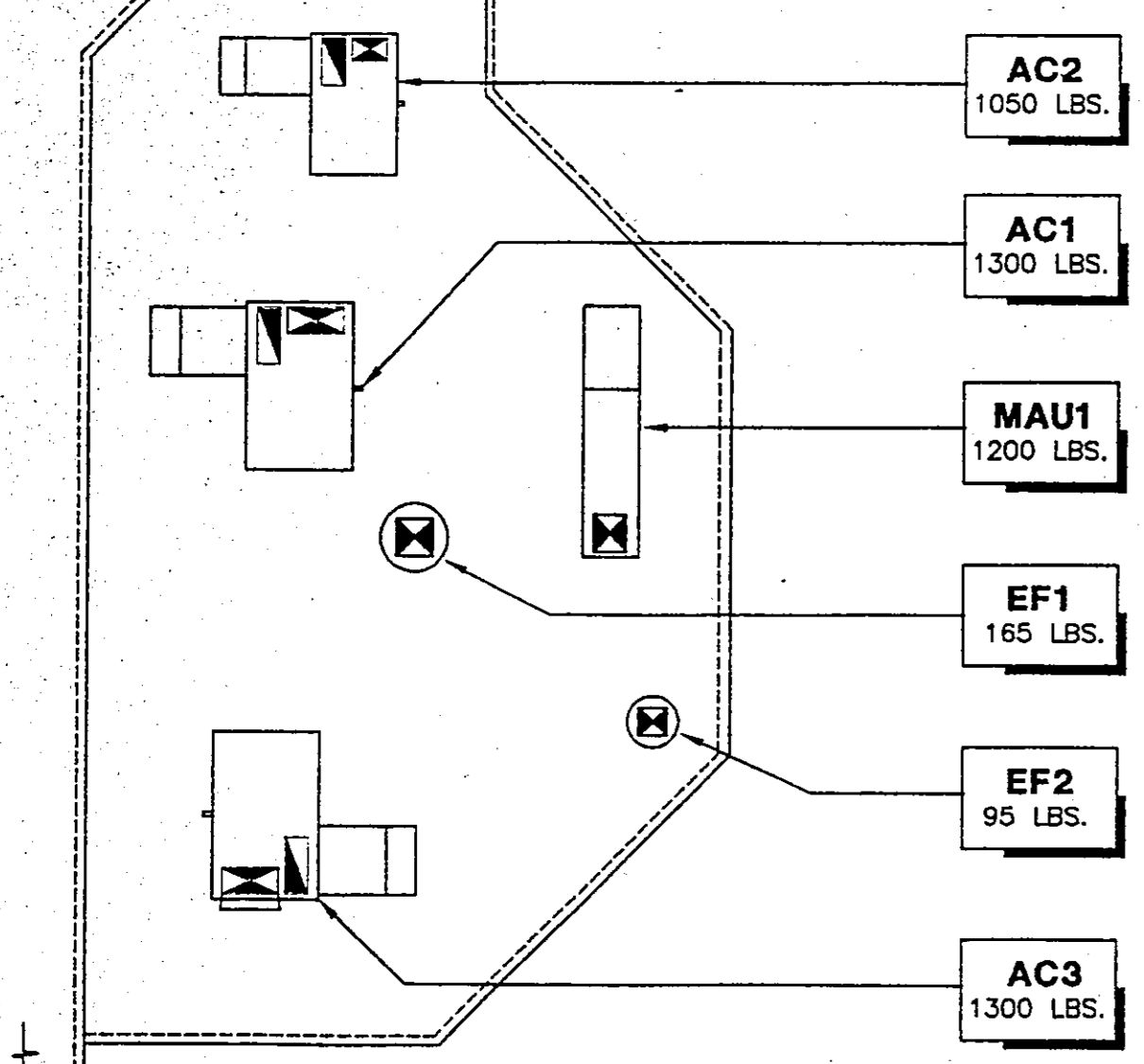
ABS Consulting
 EOE Structural Engineers Division
 300 Commerce Drive, Suite 300
 Irvine, Calif. 92602-8000 USA
 Phone (714) 794-4242
 Fax (714) 794-4272

POINT VICENTE INTERPRETIVE
 CENTER EXPANSION
 3150 El Camino Verde Drive, West
 Rancho Palms Verdes, CA

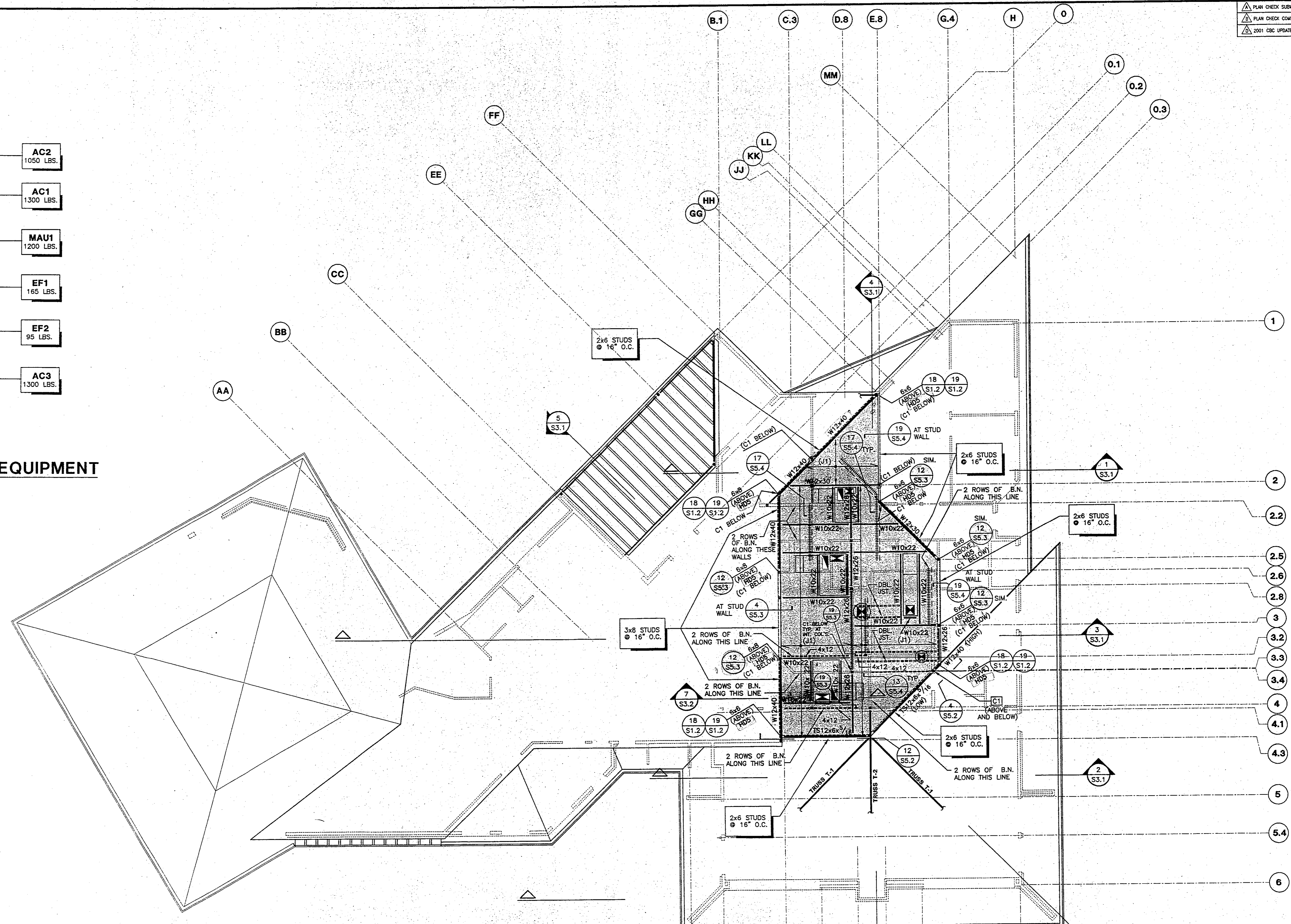
PLAN VIEW AT
 MECH. WELL

DRAWN BY
 CHECKED BY
 DATE
 SCALE
 JOB NO.
 SHEET

S2.3
 OF 69 SHEETS



KEY PLAN AT MECHANICAL EQUIPMENT
 SCALE: 1/8"=1'-0"



LEGEND:

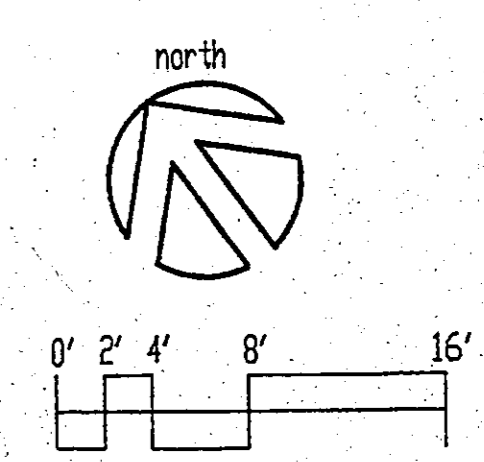
- INDICATES 1/2"x3"x10'-0" LONG CONT. DIAPHRAGM DRAG STRAP W/ 10d NAILS @ 3" O.C. AT FIRST BAY AND 6" O.C. REMAINDER (STRAP IS TO BE PLACED OVER WALL DBL. TOP WHERE OCCURS AND TJI OR 4x BLK'G BETWEEN TRUSS JOISTS).
- INDICATES EXTENT (10'-0") OF 4x BLK'G INTO TJI FRAMING PER 17 (S5.4) OR 4x12x10'-0" LONG DRAG MEMBER TO ACCOMMODATE DIAPHRAGM DRAG STRAP PER 13 (S5.4)
- PROVIDE DBL. ROWS OF B.N. OR SINGLE ROW OF 10d NAILS @ 3" O.C. AT 4x BLK'G OR 4x DRAG MEMBERS.
- INDICATES COLUMN (OR POST) PER SCHEDULE ON FOUNDATION PLAN (SHT. S2.1)

NOTES:

- ROOF PLYWOOD DIAPHRAGM SHALL BE 5/8" STRUCT. I PLYWOOD (24/0) BLOCKED W/ 10d NAILS @ 6" O.C. B.N., 6" E.N. AND 12" O.C. F.N. PER 12/S1.2 ALL BOUNDARY NAILINGS (B.N.) SHALL BE AT ROOF BOUNDARIES, PLATE LINES, CHORD TIES AND AS CALLED OUT IN SECTIONS AND DETAILS. PROVIDE DOUBLE ROWS OF B.N. WHERE INDICATED ON ROOF PLAN, SECTIONS AND DETAILS. (SHEATHING AREA IS INDICATED BY SHADING).
- WHERE DOUBLE ROWS OF B.N. IS INDICATED ON PLANS, A SINGLE ROW OF 10d NAILS @ 3" O.C. MAY BE SUBSTITUTED.
- SEE SHEET S1.1 THROUGH S1.4 FOR TYPICAL DETAILS
- FOR DIMENSIONS SEE ARCHITECTURAL DWG'S. COLUMNS ARE LOCATED AT CENTERLINE OF STUD WALL TYP.
- SEE DETAILS 3/S1.2 AND 8/S1.2 FOR TYPICAL STUD WALL FRAMING AND 5/S1.2 FOR OPENINGS IN PLYWOOD SHEARWALL.
- SEE DETAIL 7/S1.2 FOR DOOR AND WINDOW HEADER SIZES U.N.O.
- SEE DETAIL 4/S1.2 FOR TOP PLATE SPLICE. (TOP PLATE SPLICE SHALL BE TYPE 'C')
- FOR TYPICAL STEEL BEAM TO COL. CONNECTIONS SEE DETAILS ON SHEET S1.4. FOR TYPICAL TRUSS JOIST TO STEEL BEAM CONNECTIONS SEE DETAIL 8/S1.3. FOR TYPICAL WOOD BEAM CONNECTIONS SEE DETAIL 9/S1.2
- SEE ARCH'L DWG'S FOR WALL TOP PLATE ELEVATION AND ROOF HEIGHTS, TYP.
- FOR TRUSS T-1 AND T-2 PROFILES SEE SHEET S6.1.
- FOR OPENING SIZES AND LOCATIONS, SEE ARCH'L AND MECH'L DWG'S.
- FOR SIZE AND LOCATION OF MECHANICAL UNITS, SEE MECH'L DWG'S.

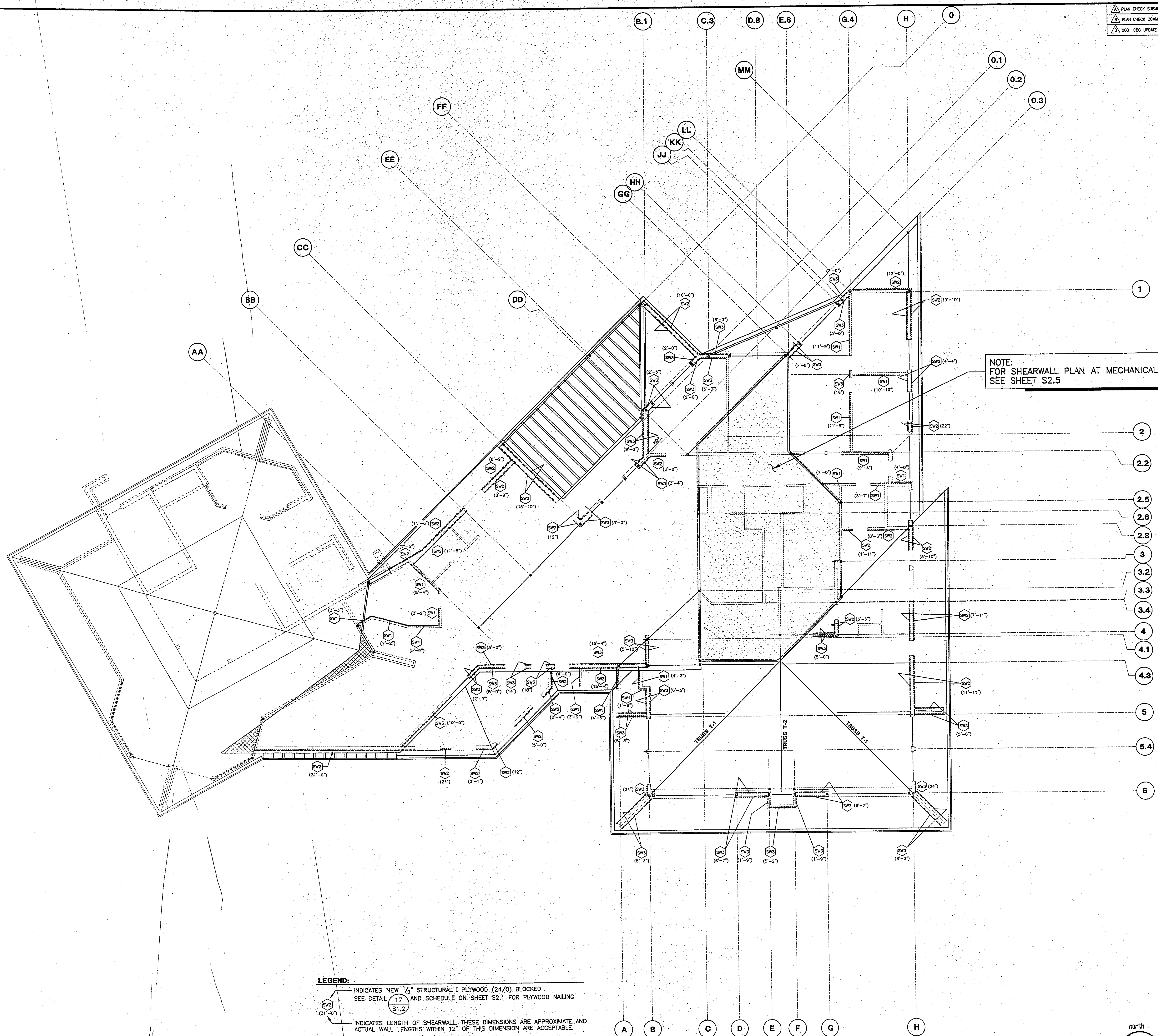
ROOF JOIST SCHEDULE	
MARK	JOIST SIZE AND SPACING
J1	11 7/8" DEEP TJI L65 @ 16" O.C.
J2	11 7/8" DEEP TJI L90 @ 16" O.C.
J3	11 7/8" DEEP TJI L65 @ 24" O.C.
J4	2x6 @ 16" O.C.
J5	4x8 @ 16" O.C.
J6	4x8 @ 24" O.C.

MECHANICAL WELL FRAMING PLAN
 SCALE: 1/8"=1'-0"



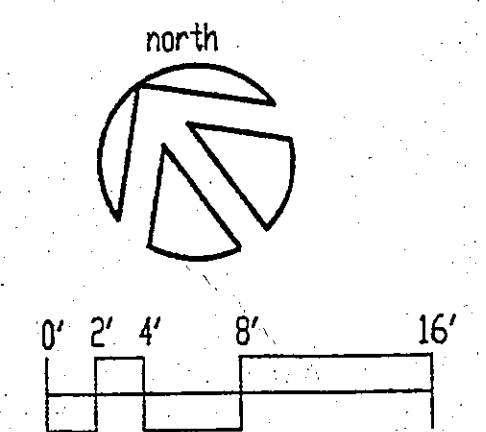
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 THESE DRAWINGS ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION AND CONSENT OF RON YEO, ARCHITECT, INC.

PLAN CHECK SUBMITAL 9-29-98
 PLAN CHECK COMMENTS 1-15-99
 2001 CBC UPDATE 11-18-03

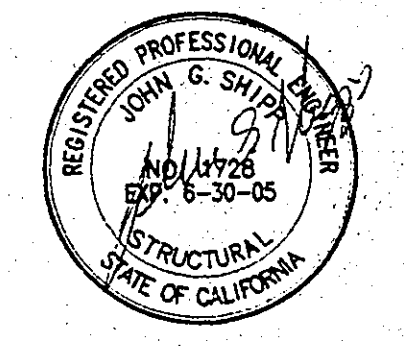


LEGEND:
 (SW1) (3'-0") INDICATES NEW 1/2" STRUCTURAL I PLYWOOD (24/0) BLOCKED
 SEE DETAIL 17 AND SCHEDULE ON SHEET S2.1 FOR PLYWOOD NAILING
 (S1.2) (10'-0") INDICATES LENGTH OF SHEARWALL. THESE DIMENSIONS ARE APPROXIMATE AND
 ACTUAL WALL LENGTHS WITHIN 12" OF THIS DIMENSION ARE ACCEPTABLE.

SHEARWALL PLAN AT MAIN ROOF LEVEL
 SCALE: 1/8" = 1'-0"



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 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



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 Irvine, Calif. 92602-3000 USA
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 Fax (714) 734-4272

**POINT VICENTE INTERPRETIVE
 CENTER EXPANSION**
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

**SHEARWALL PLAN
 AT
 MAIN ROOF LEVEL**

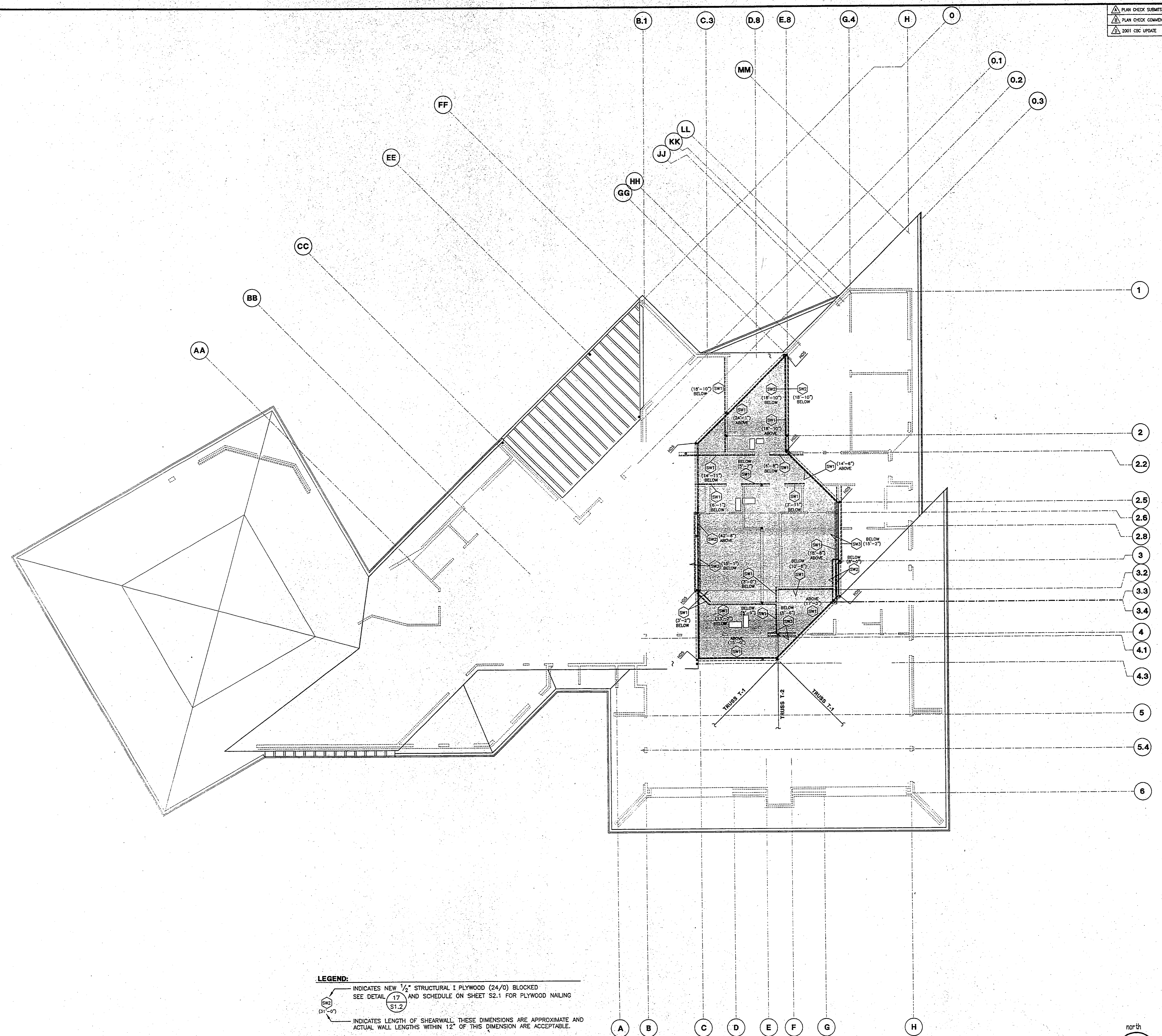
DRAWN	DW
CHECKED	SK
DATE	
SCALE	AS NOTED
JOB NO.	2505401
SHEET	

S2.4
 43 OF 49 SHEETS

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 PLAN CHECK COMMENTS 1-15-99
 2001 CBC UPDATE 11-18-03

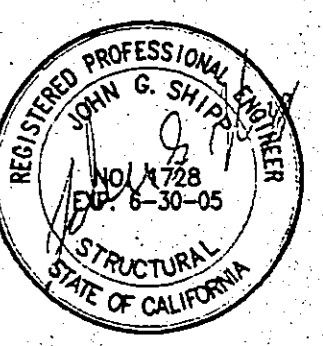


LEGEND:
 (SW) (S1-9') INDICATES NEW 1/2" STRUCTURAL I PLYWOOD (24/0) BLOCKED
 SEE DETAIL 17 AND SCHEDULE ON SHEET S2.1 FOR PLYWOOD NAILING
 (S1.2)
 (S1-9') INDICATES LENGTH OF SHEARWALL. THESE DIMENSIONS ARE APPROXIMATE AND
 ACTUAL WALL LENGTHS WITHIN 12" OF THIS DIMENSION ARE ACCEPTABLE.

SHEARWALL PLAN AT MECHANICAL WELL

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

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 PATRICK MARR, AIA, P.E. ASSOCIATE ARCHITECT



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 Fax (714) 734-4272

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 CENTER EXPANSION**
 31100 Point Vicente Drive West
 Rancho Palms Verdes, CA

**SHEARWALL PLAN
 AT
 MECH. WELL**

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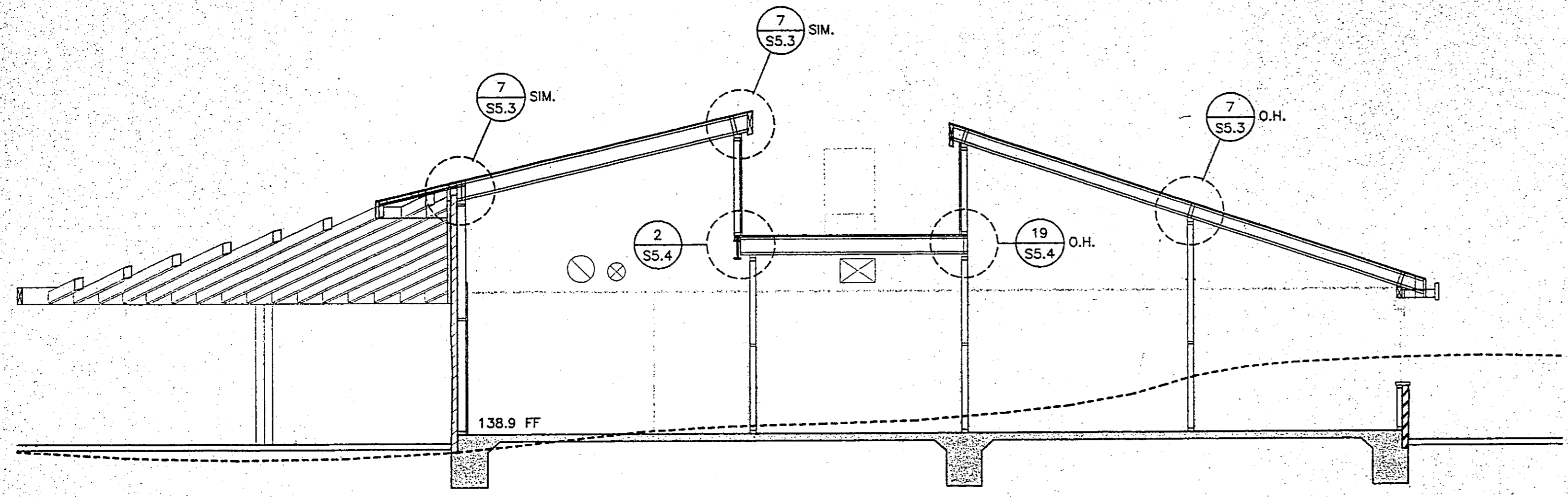
DRAWN	SM
CHECKED	SM
DATE	
SCALE	AS NOTED
JOB. NO.	250534.01
SHEET	

S2.5

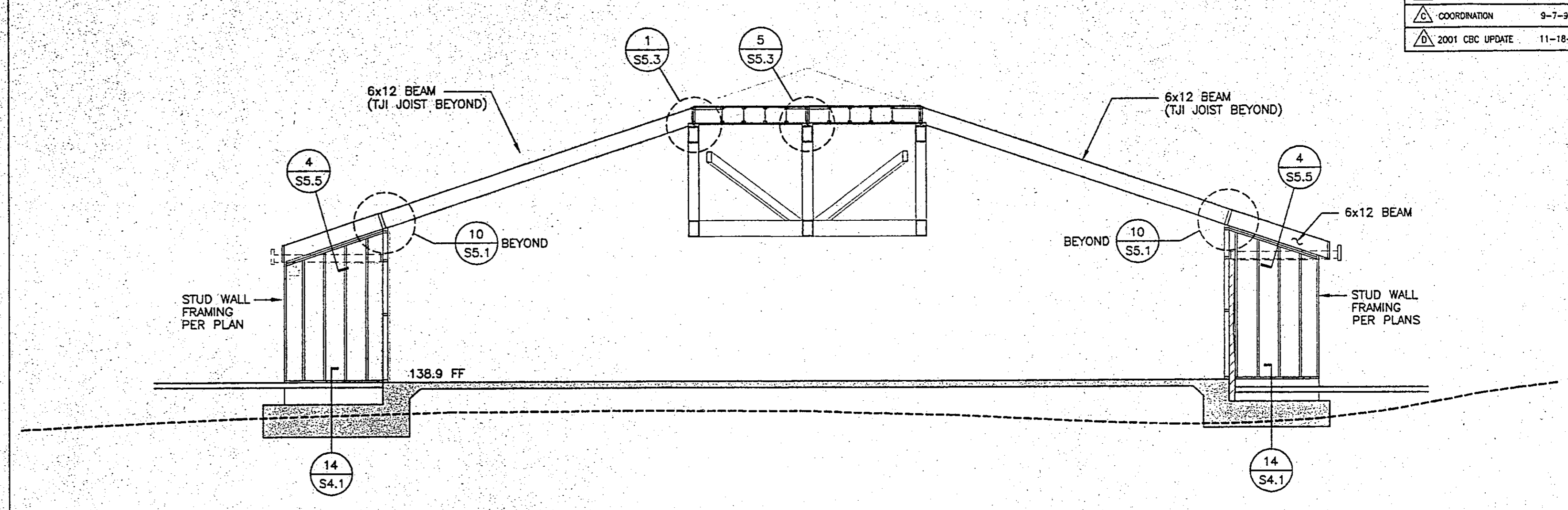
44 OF 69 SHEETS

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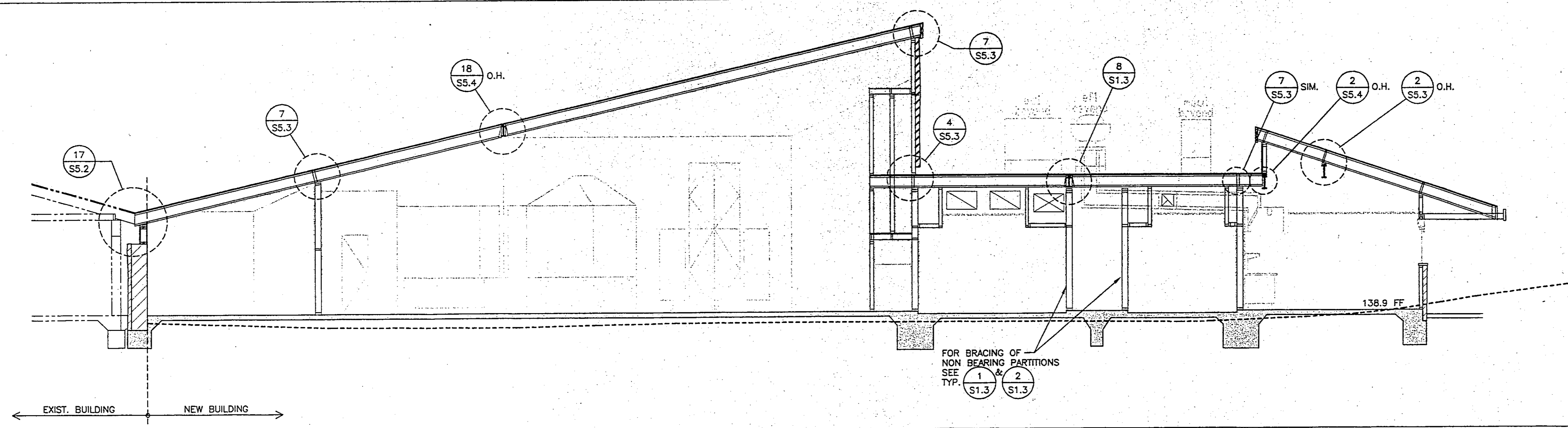
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 PLAN CHECK COMMENTS 1-15-99
 COORDINATION 9-7-99
 2001 CBC UPDATE 11-18-03



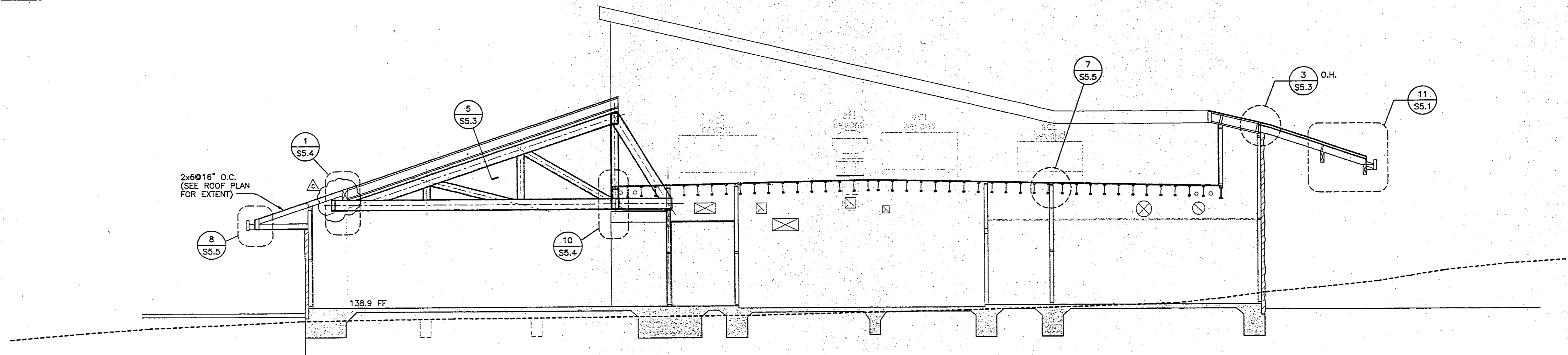
BUILDING SECTION 1 SCALE: 3/16"=1'-0"



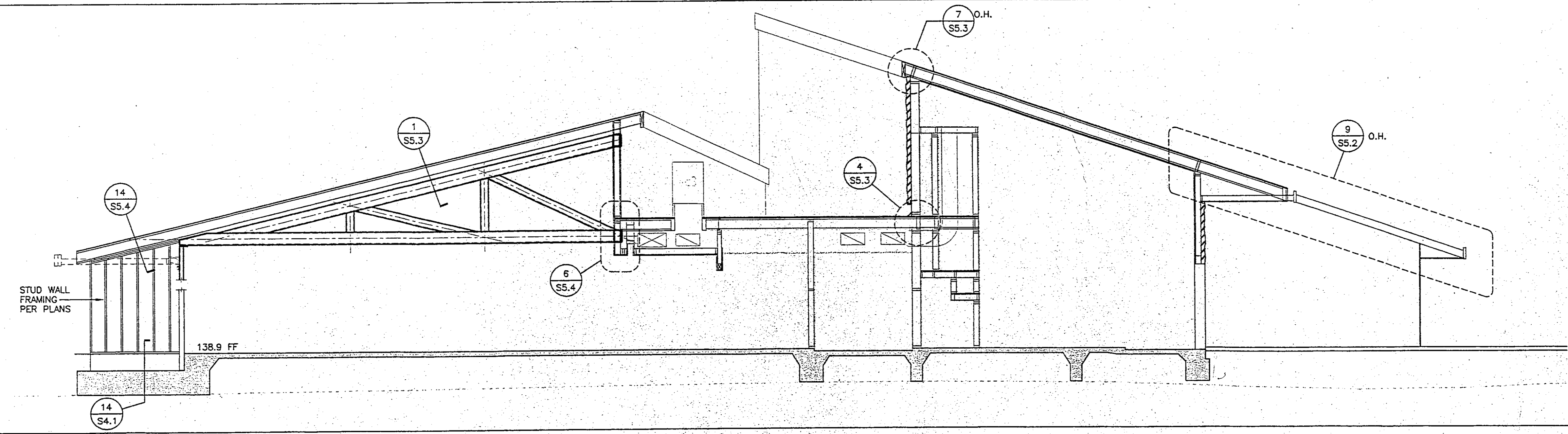
BUILDING SECTION 2 SCALE: 3/16"=1'-0"



BUILDING SECTION 3 SCALE: 3/16"=1'-0"

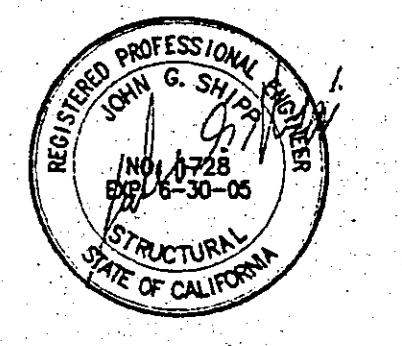


BUILDING SECTION 4 SCALE: 3/16"=1'-0"



BUILDING SECTION 5 SCALE: 3/16"=1'-0"

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 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



ABS Consulting
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 Palmdale, CA 93550
 Phone (714) 734-4242
 Fax (714) 734-4272

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 3150 Palmdale Blvd., Suite 100 West
 Palmdale, CA 93550

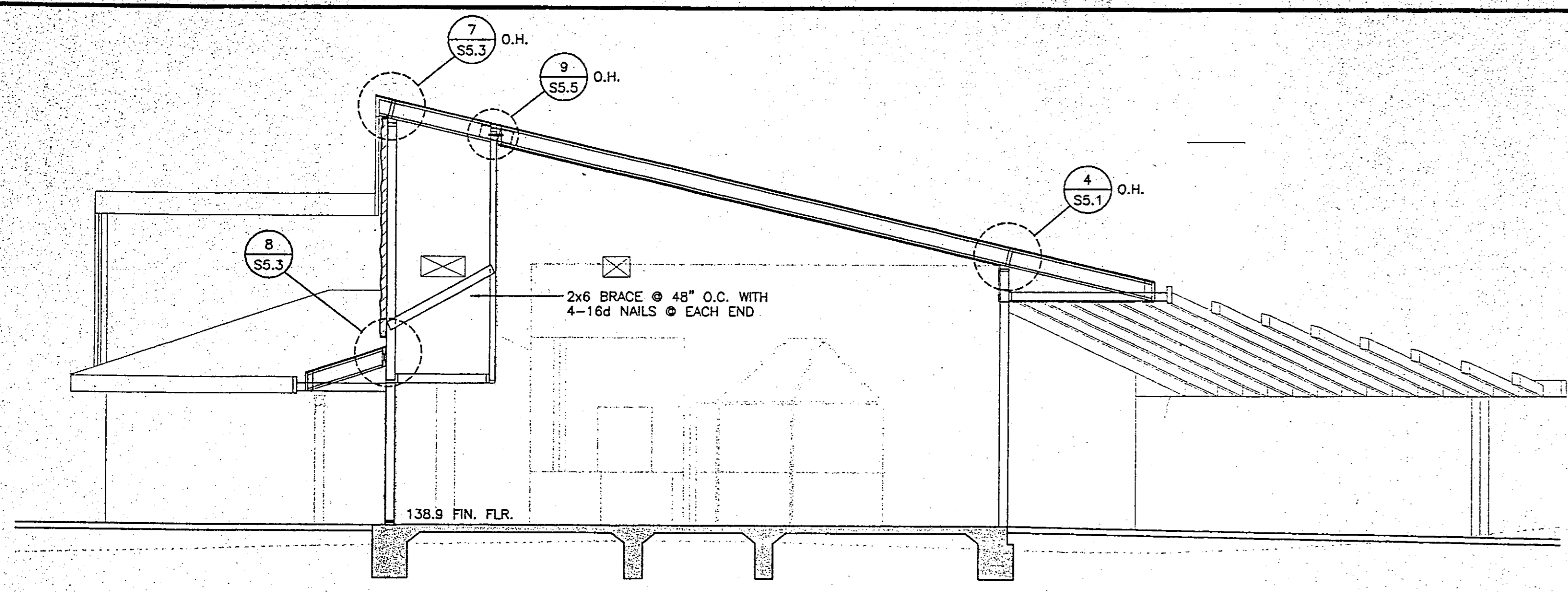
BUILDING SECTIONS

DRAWN	DW
CHECKED	SM
DATE	
SCALE	3/16"=1'-0"
JOB. NO.	2003.01
SHEET	

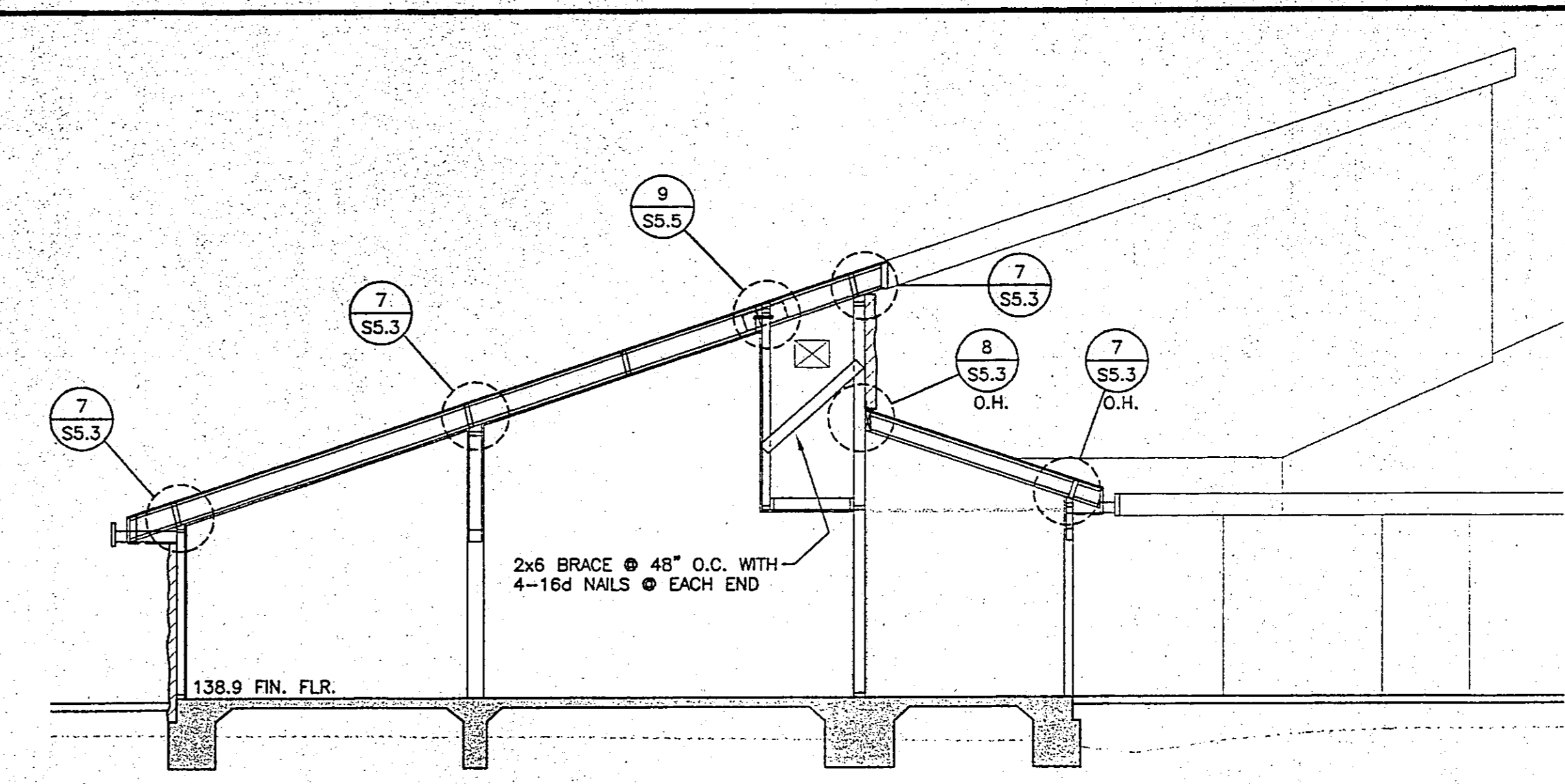
S3.1
 45 OF 69 SHEETS

THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMMENTS FOR CONSTRUCTION SAFETY

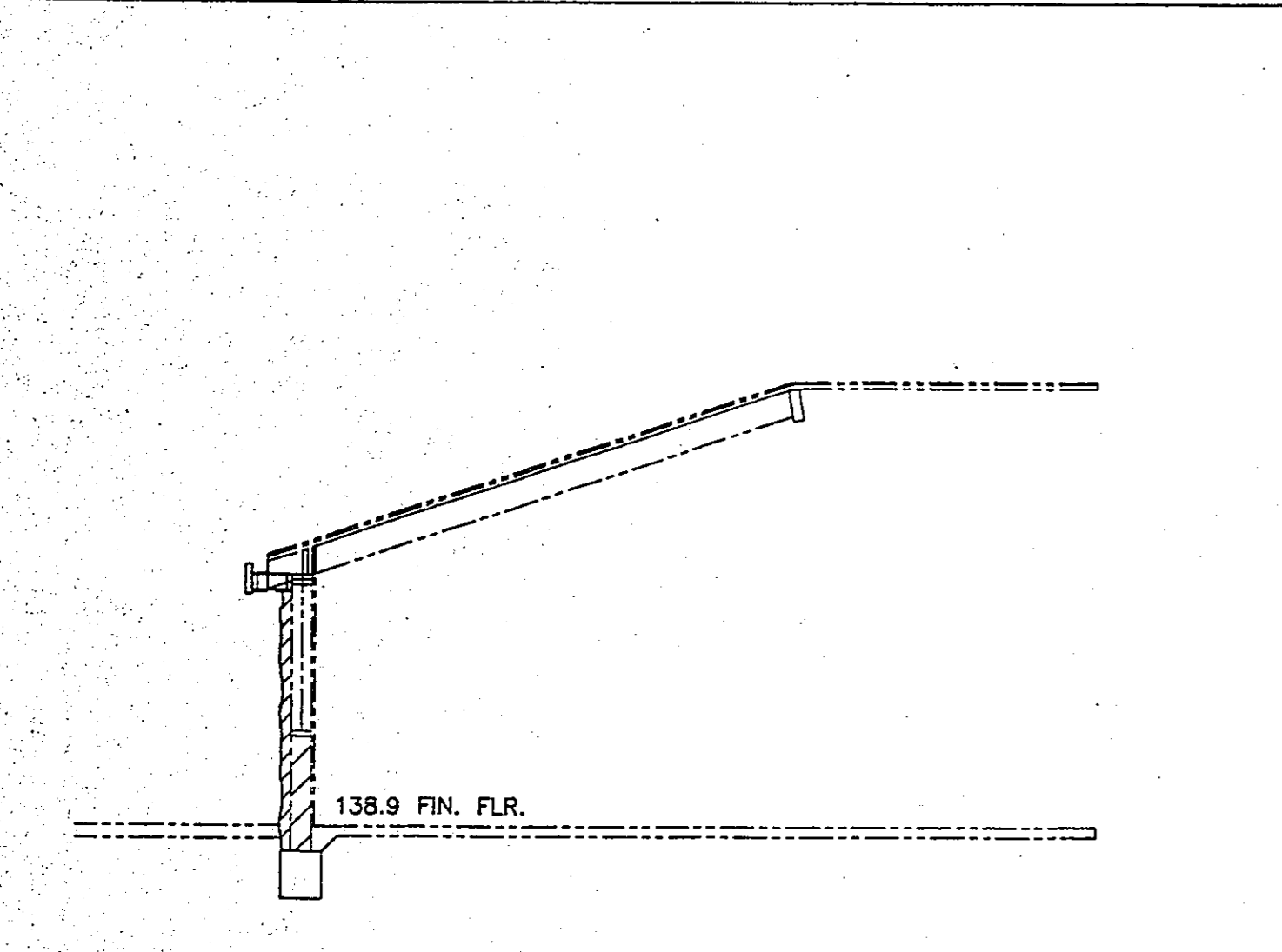
PLAN CHECK SUBMITAL 9-28-98
 PLAN CHECK COMMENTS 1-15-99
 2001 CSC UPDATE 11-18-03



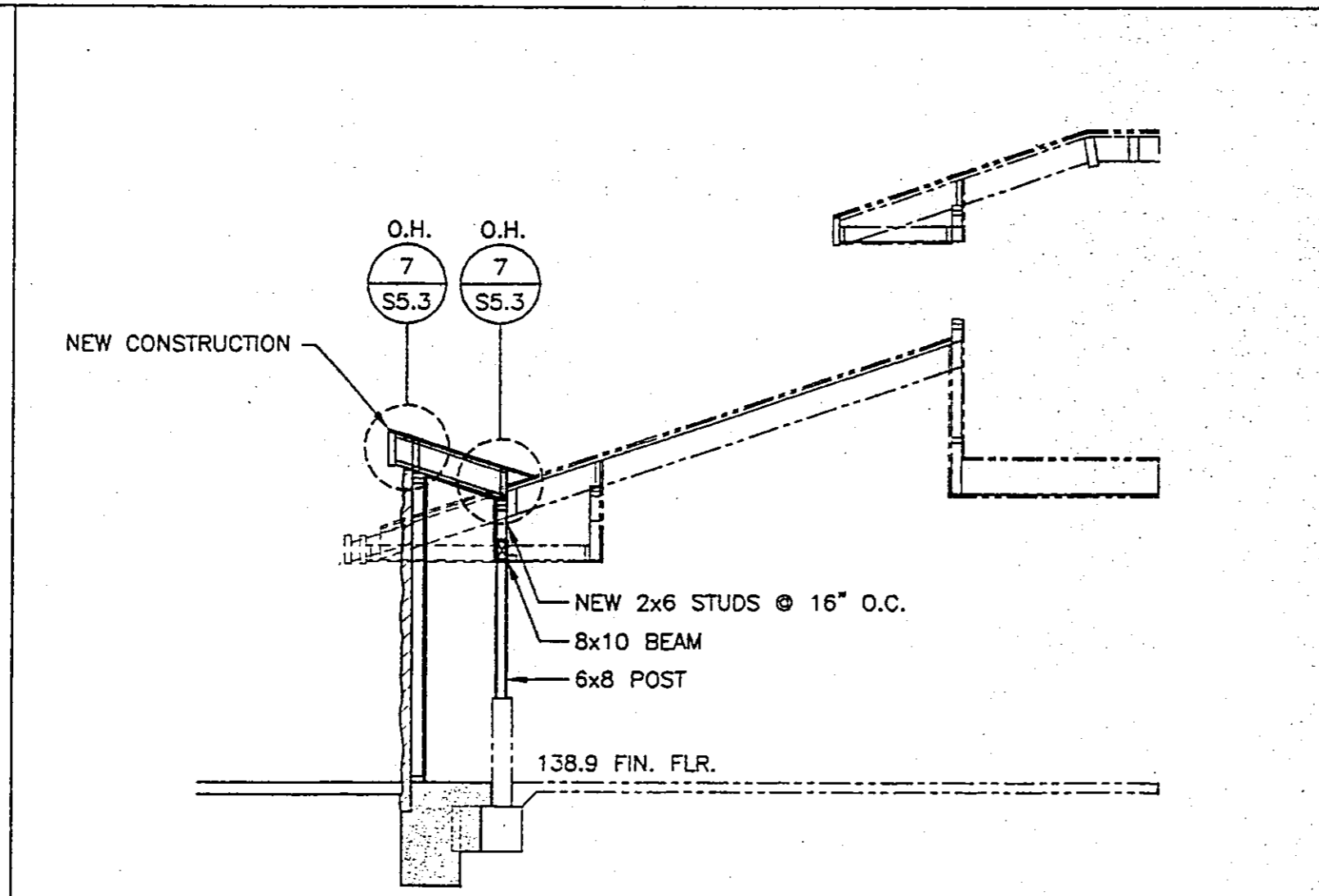
BUILDING SECTION



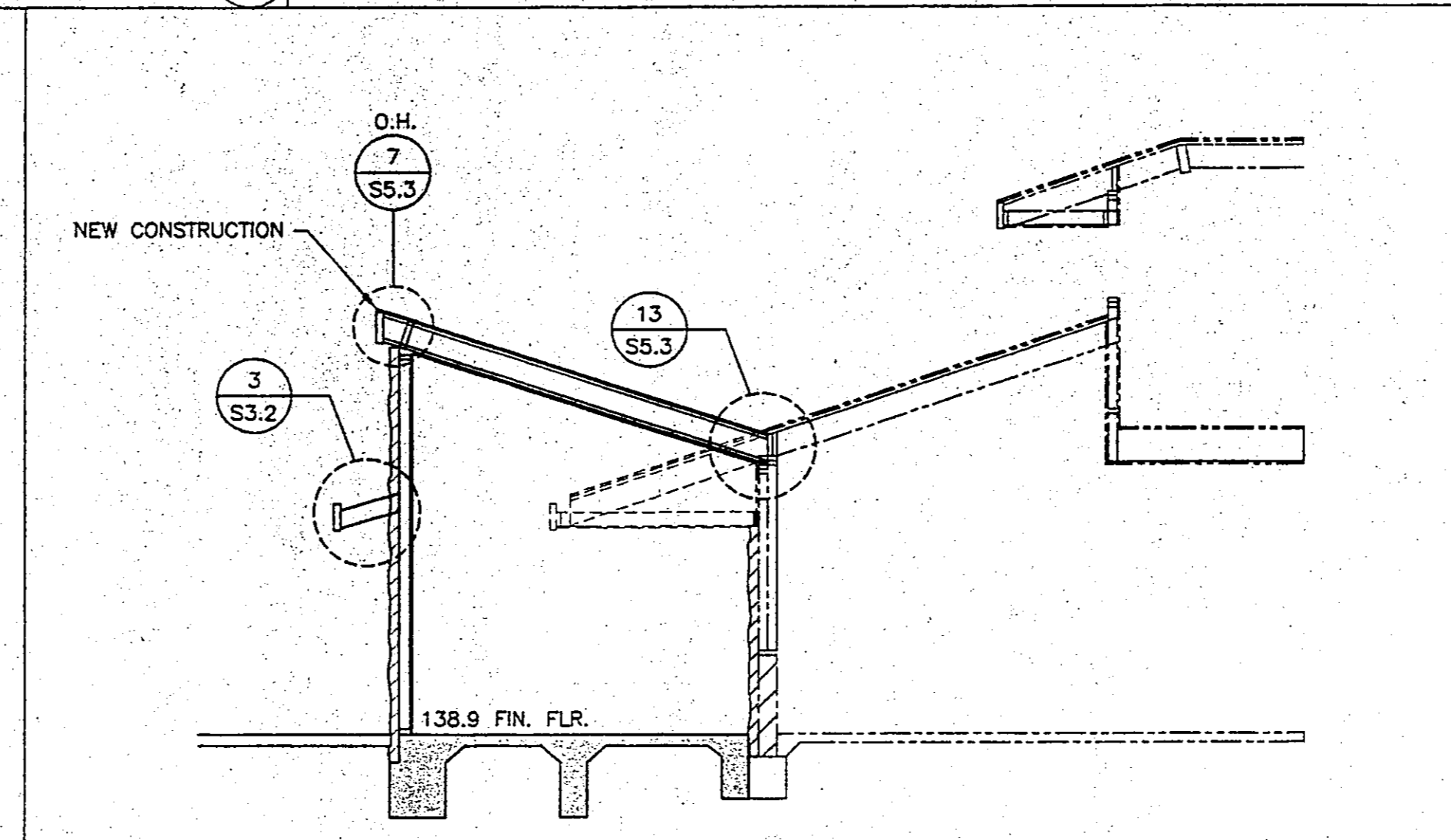
BUILDING SECTION



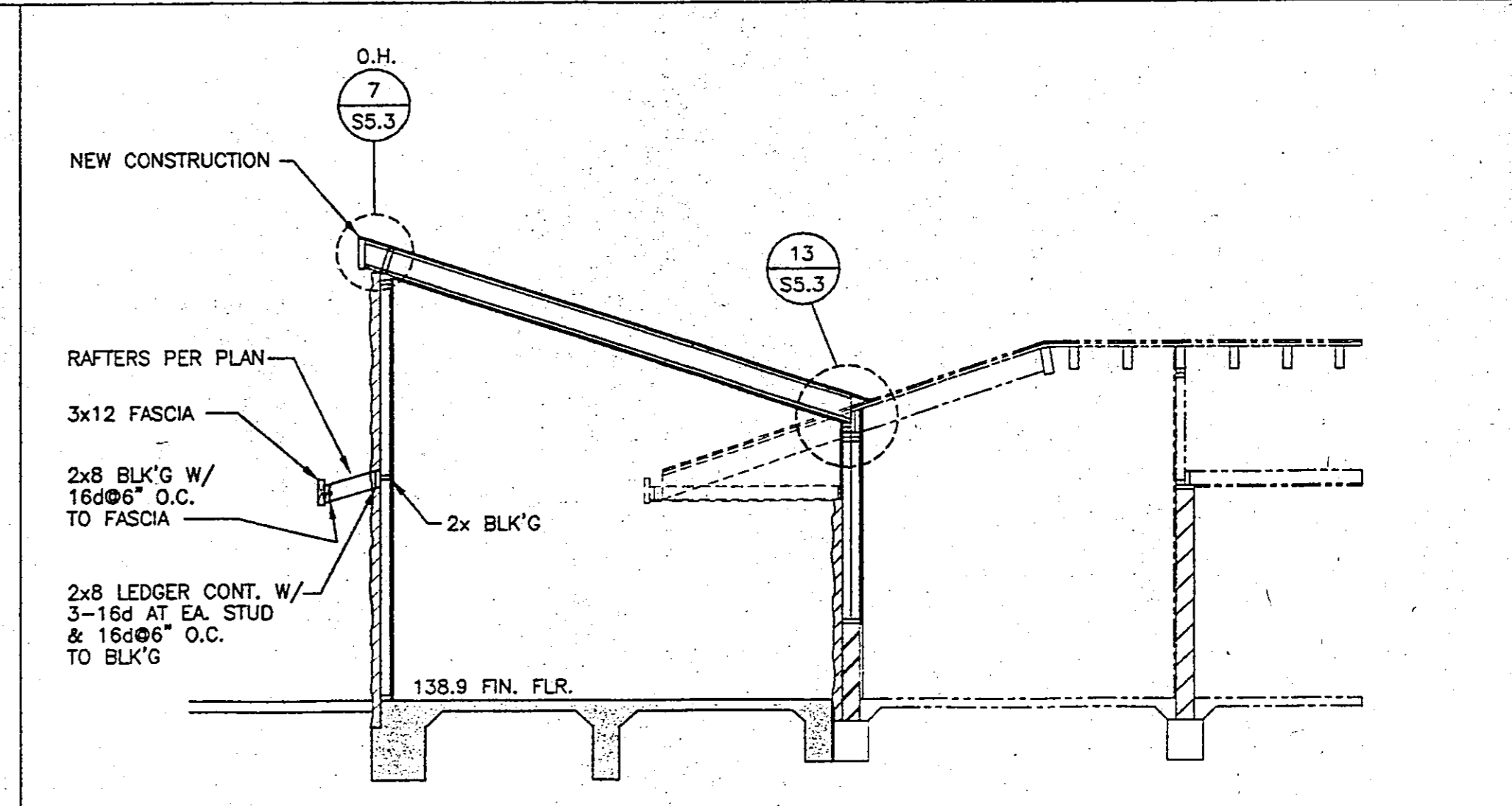
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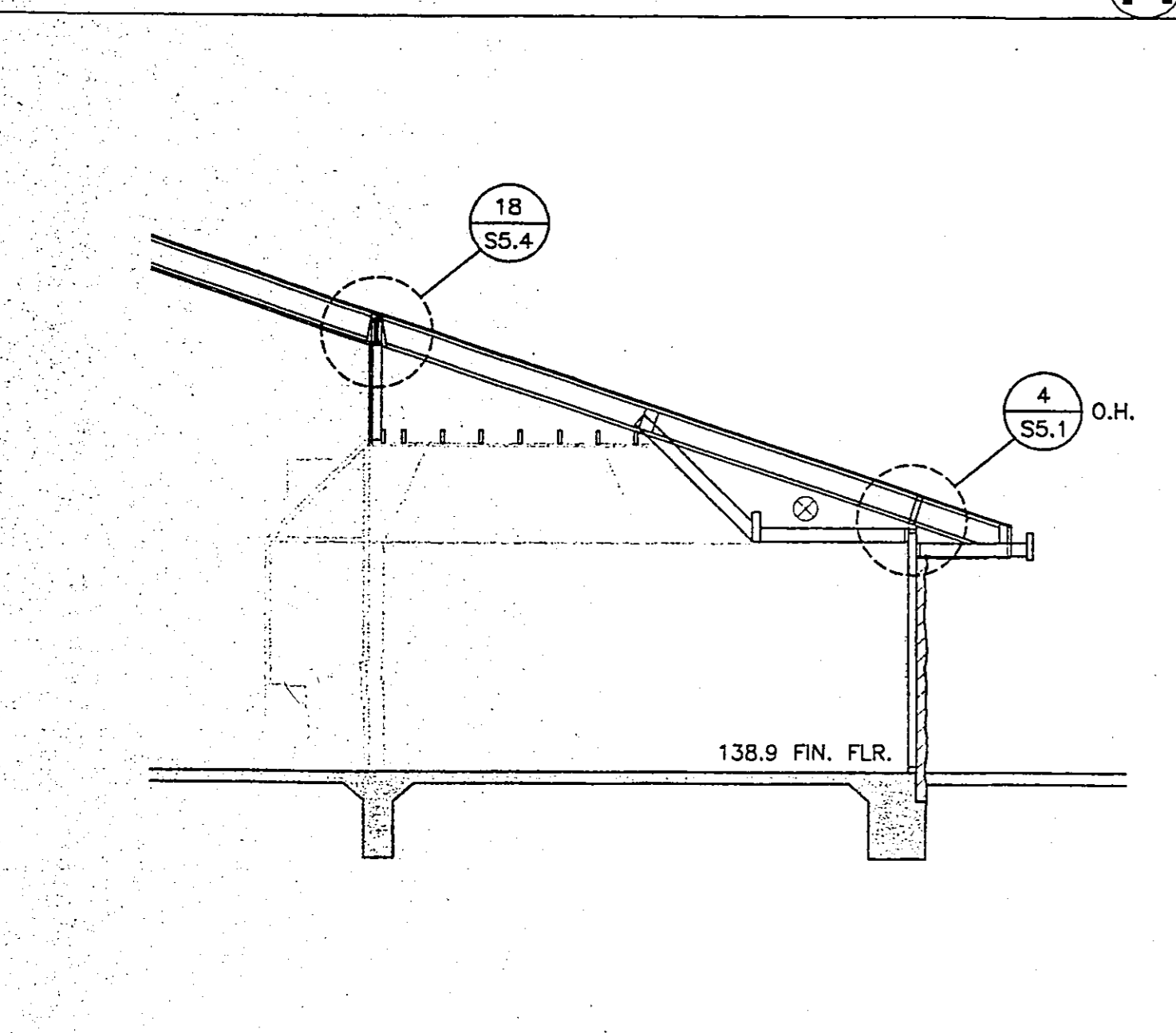
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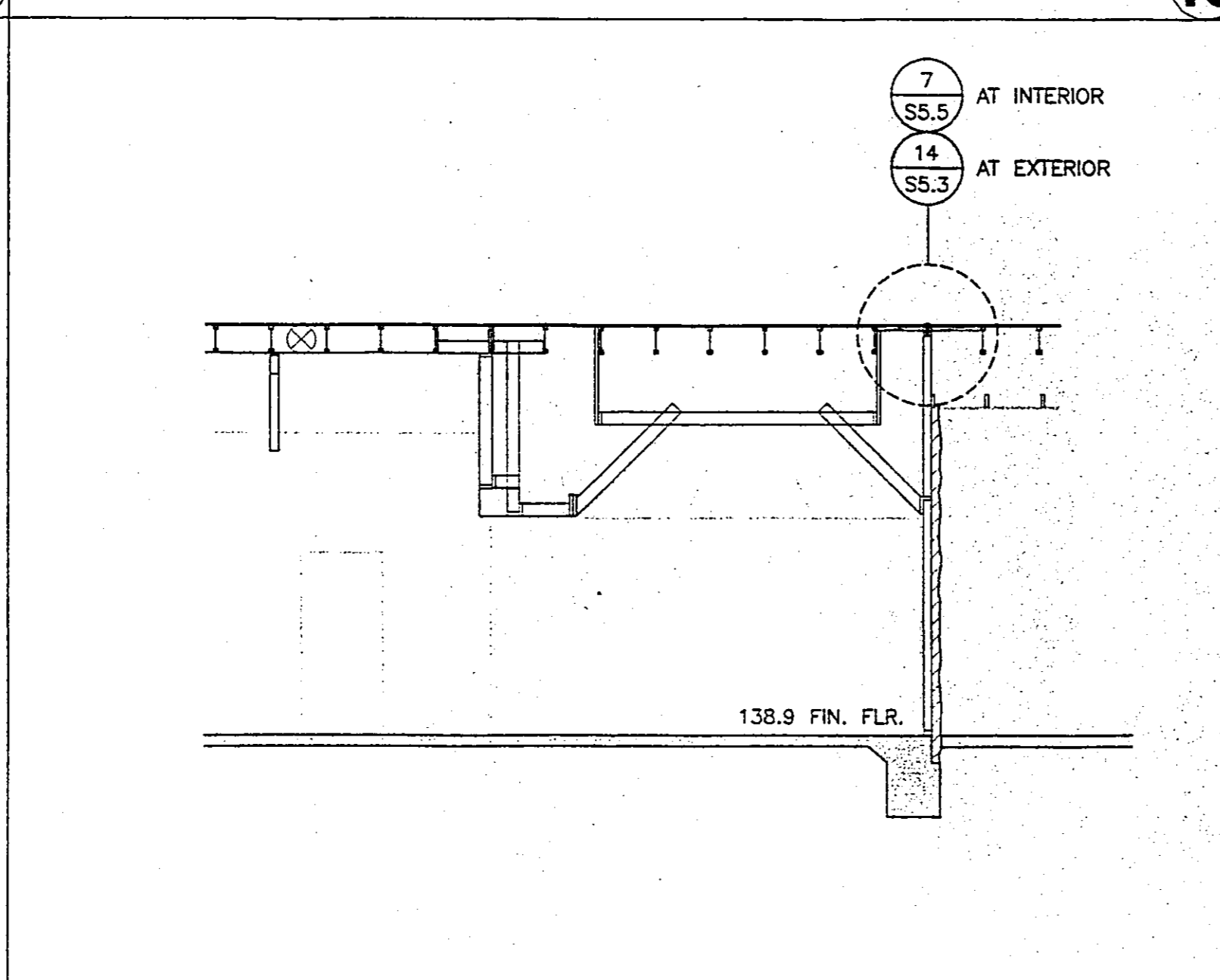
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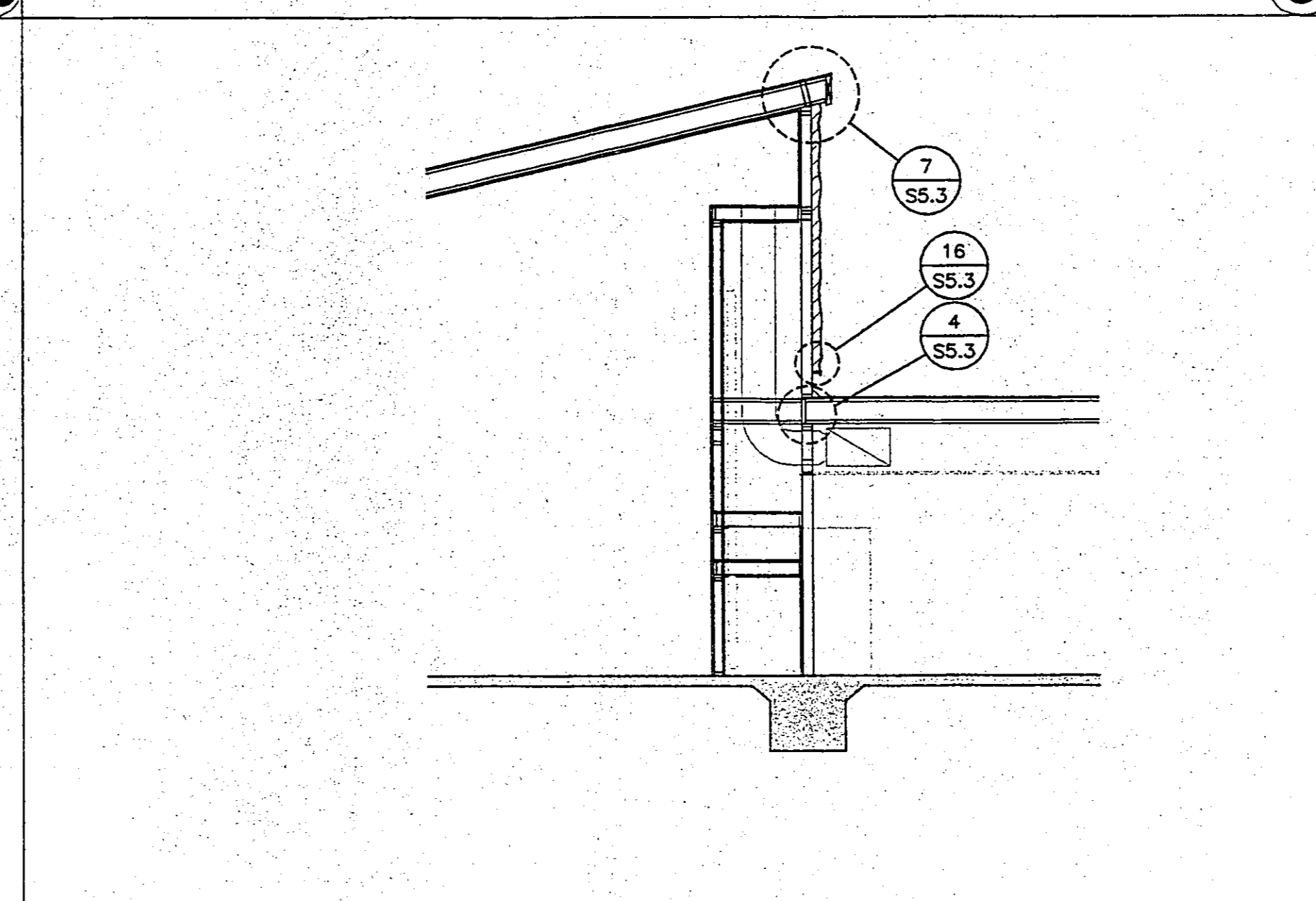
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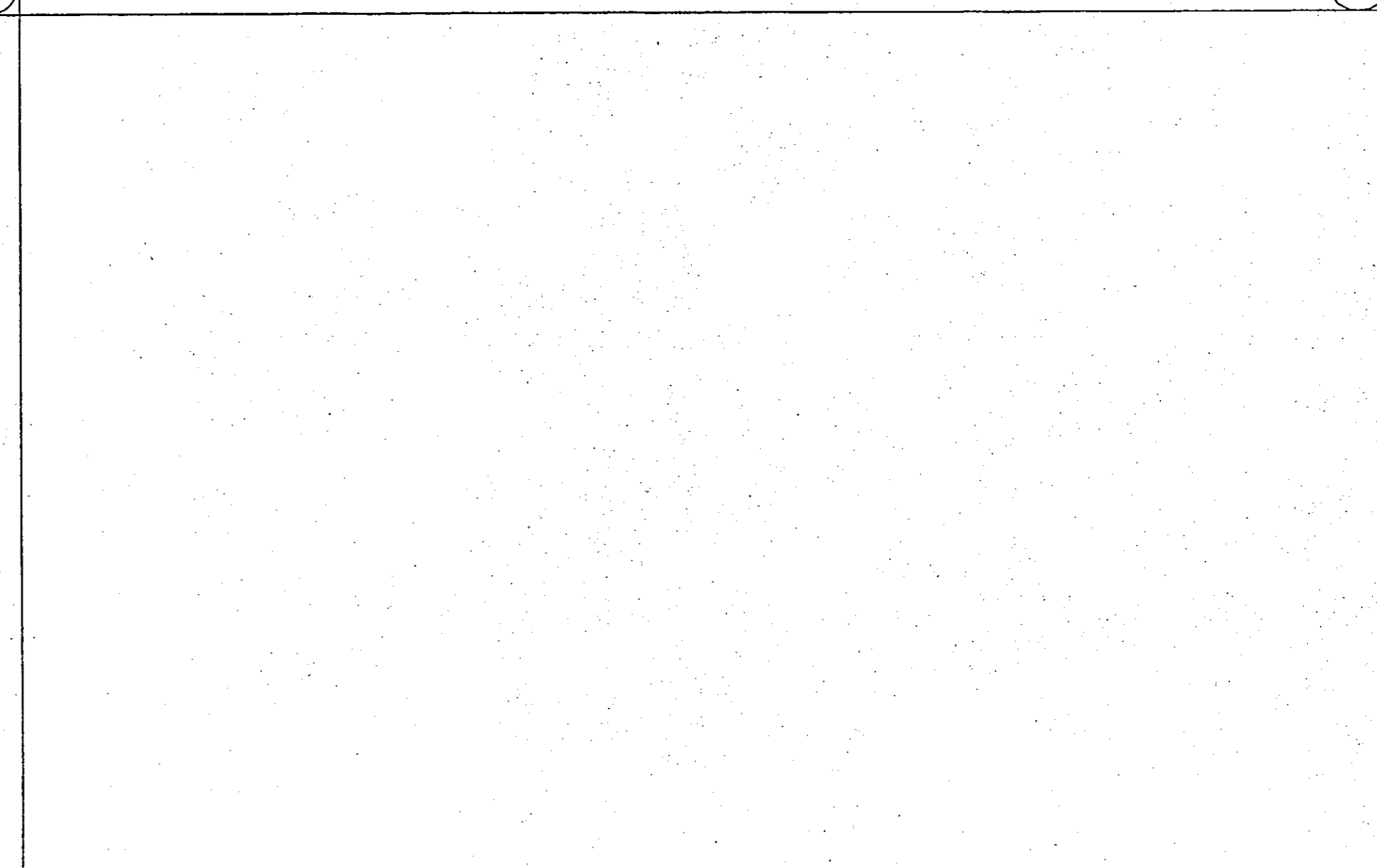
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BUILDING SECTION



BUILDING SECTION



BUILDING SECTION

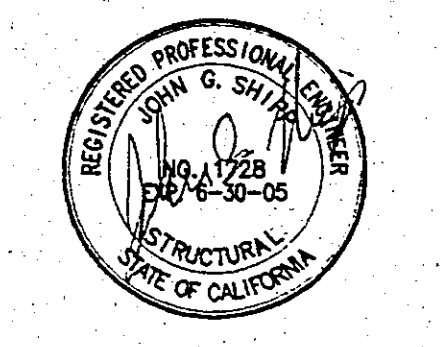
NOTE: CONSTRUCTION IS SHOWN IN PHANTOM LINES (-----)
 EXIST. CONSTRUCTION TO BE REMOVED IS SHOWN IN DASHED LINES (-----)
 (SEE ARCH'L DWG'S FOR EXTEND OF DEMOLITION WORK)

NOTE: CONSTRUCTION IS SHOWN IN PHANTOM LINES (-----)
 EXIST. CONSTRUCTION TO BE REMOVED IS SHOWN IN DASHED LINES (-----)
 (SEE ARCH'L DWG'S FOR EXTEND OF DEMOLITION WORK)

NOTE: CONSTRUCTION IS SHOWN IN PHANTOM LINES (-----)
 EXIST. CONSTRUCTION TO BE REMOVED IS SHOWN IN DASHED LINES (-----)
 (SEE ARCH'L DWG'S FOR EXTEND OF DEMOLITION WORK)

NOTE: CONSTRUCTION IS SHOWN IN PHANTOM LINES (-----)
 EXIST. CONSTRUCTION TO BE REMOVED IS SHOWN IN DASHED LINES (-----)
 (SEE ARCH'L DWG'S FOR EXTEND OF DEMOLITION WORK)

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 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



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 Fax (714) 754-4272

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

BUILDING SECTIONS

DRAWN	SW
CHECKED	SW
DATE	
SCALE	1/4"=1'-0"
JOB. NO.	200401
SHEET	

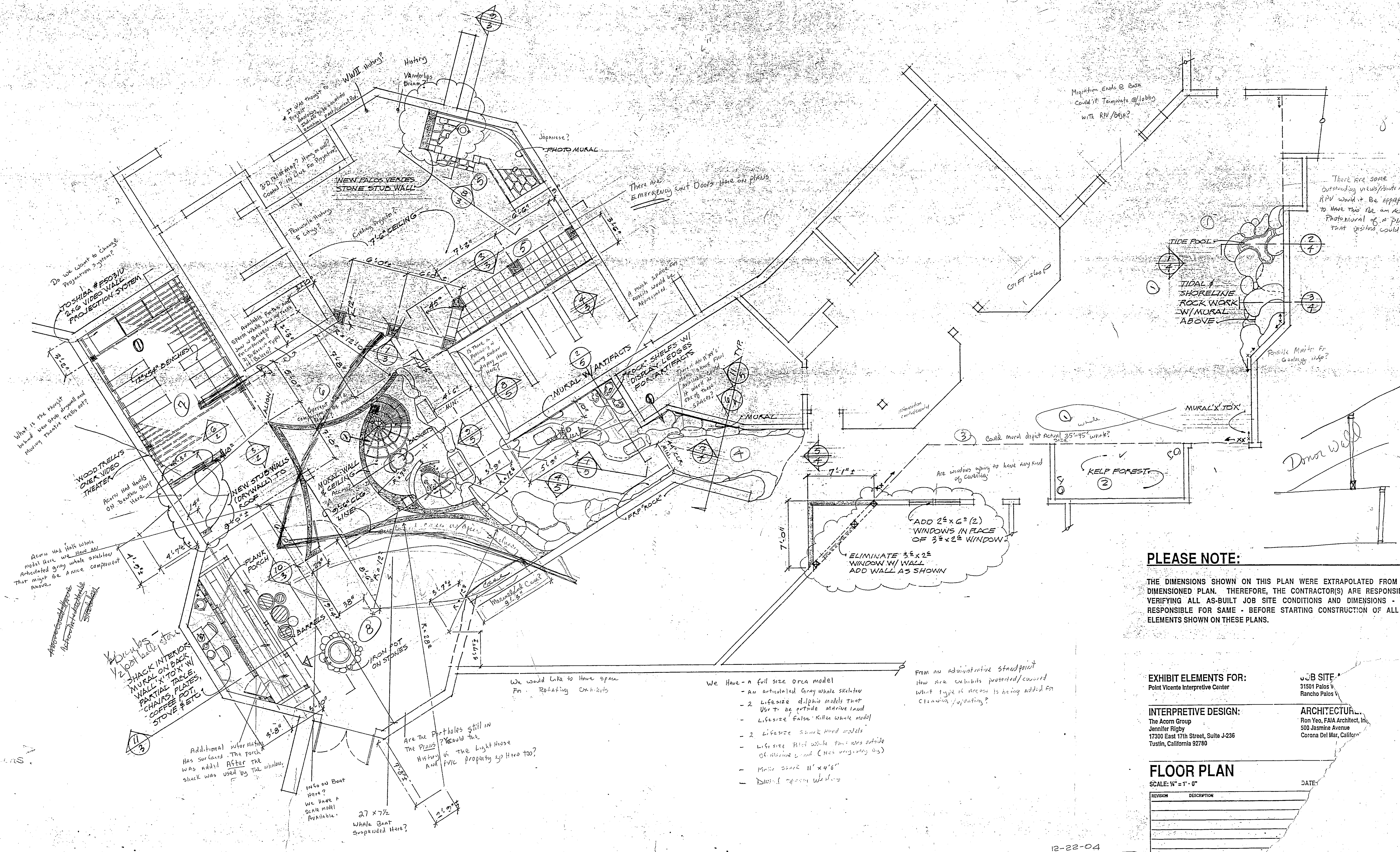
S3.2

46 OF 69 SHEETS

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20" Duplex Power Outlet
 Box Out 12" high
 Protector
 Dk Stained Conc Floor in Exhibit Expn
 Grains & Shanks



PLEASE NOTE:
 THE DIMENSIONS SHOWN ON THIS PLAN WERE EXTRAPOLATED FROM A NON-DIMENSIONED PLAN. THEREFORE, THE CONTRACTOR(S) ARE RESPONSIBLE FOR VERIFYING ALL AS-BUILT JOB SITE CONDITIONS AND DIMENSIONS - AND BE RESPONSIBLE FOR SAME - BEFORE STARTING CONSTRUCTION OF ALL EXHIBIT ELEMENTS SHOWN ON THESE PLANS.

EXHIBIT ELEMENTS FOR:
 Point Vicente Interpretive Center

JOB SITE:
 31501 Palos Verdes
 Rancho Palos Verdes

INTERPRETIVE DESIGN:
 The Acorn Group
 Jennifer Rigby
 17300 East 17th Street, Suite J-236
 Tustin, California 92780

ARCHITECTURAL:
 Ron Yeo, FAIA Architect, Inc.
 500 Jasmine Avenue
 Corona Del Mar, California

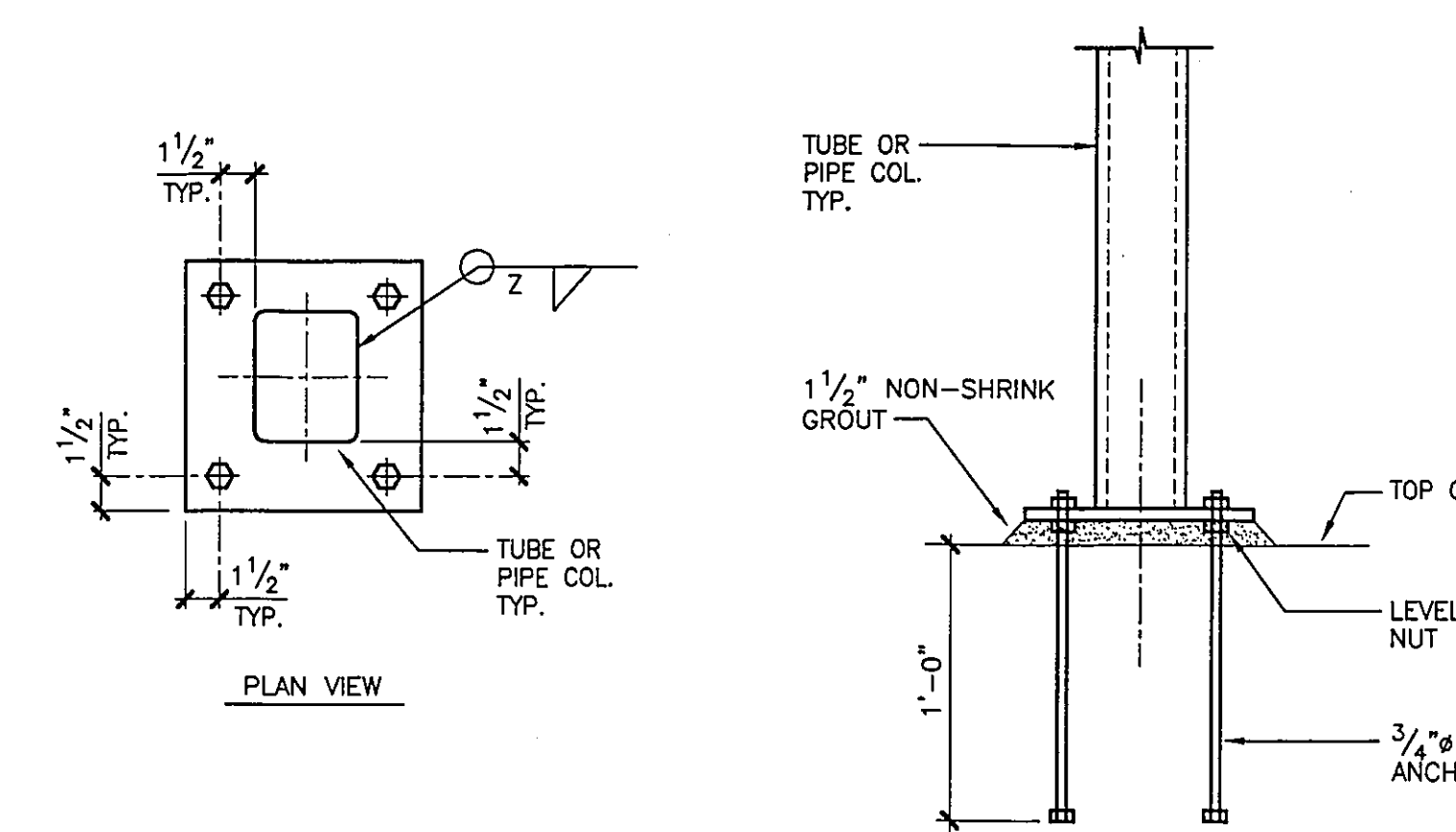
FLOOR PLAN
 SCALE: 1/4" = 1' - 0"
 DATE: _____

REVISION	DESCRIPTION

12-22-04

PLAN CHECK SUBMITAL	9-28-98
PLAN CHECK COMMENTS	1-15-99
2001 CDC UPDATE	11-18-03
C.O.	1-26-05

SCHEDULE		
MEMBER SIZE	PLATE THICKNESS	WELD "Z"
TS6x4x1/2	1"	5/16"
TS6x4x3/16 *	3/4"	1/4"

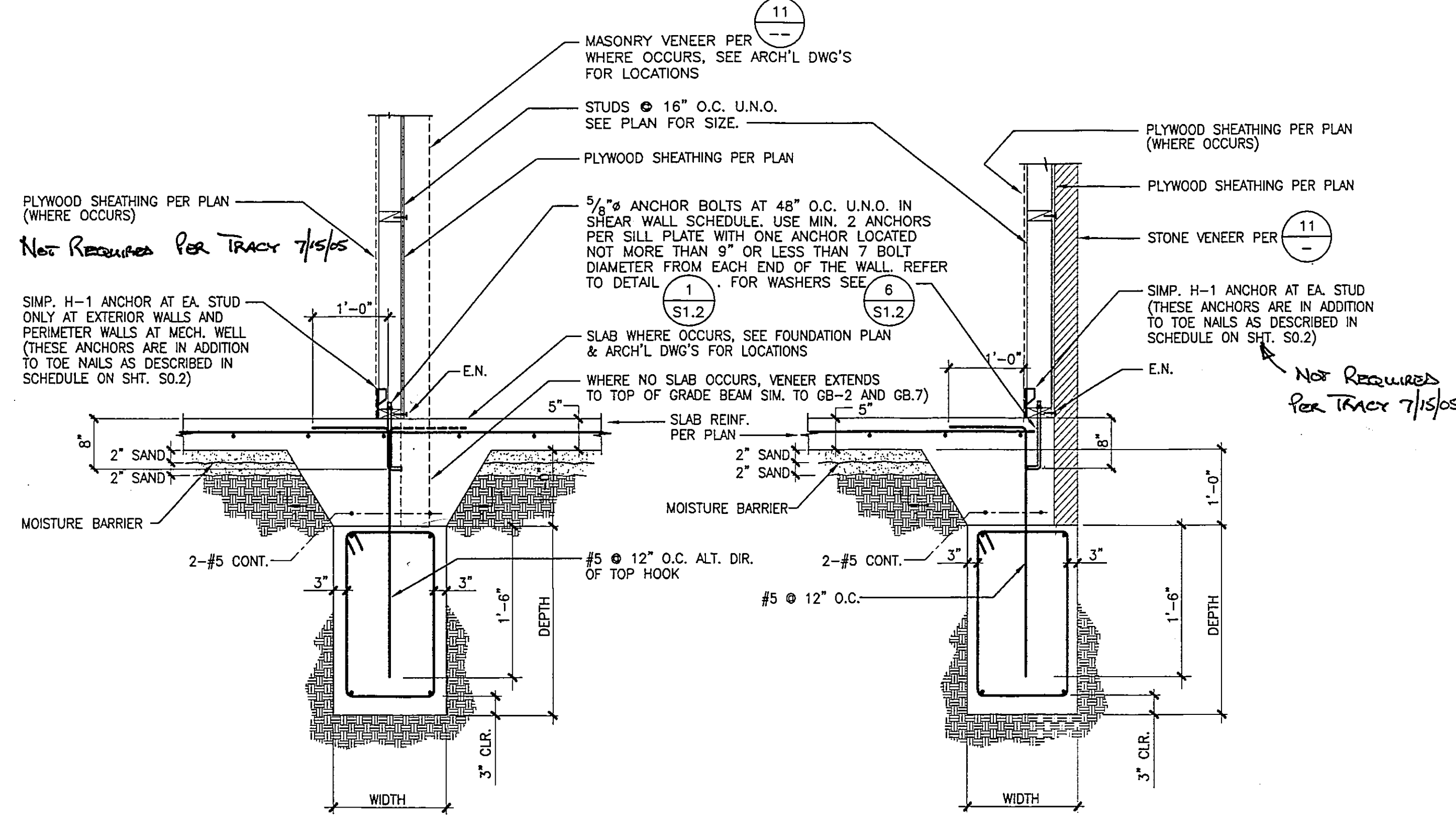


17

TS COL. BASE PLATES

* AT FOOTING F-6 SEE (10) (S4.1) FOR ADD'L INFO

NOTE: ALL GRADE BEAM REINFORCING SHALL EXTEND THROUGH FOOTINGS/GRADE BEAMS WHERE APPLICABLE. WHERE GRADE BEAMS DO NOT CONTINUE ON OPPOSITE SIDES, EXTEND GRADE BEAM REINFORCING THROUGH FOOTINGS/GRADE BEAMS AS FAR AS POSSIBLE & HOOK.



9

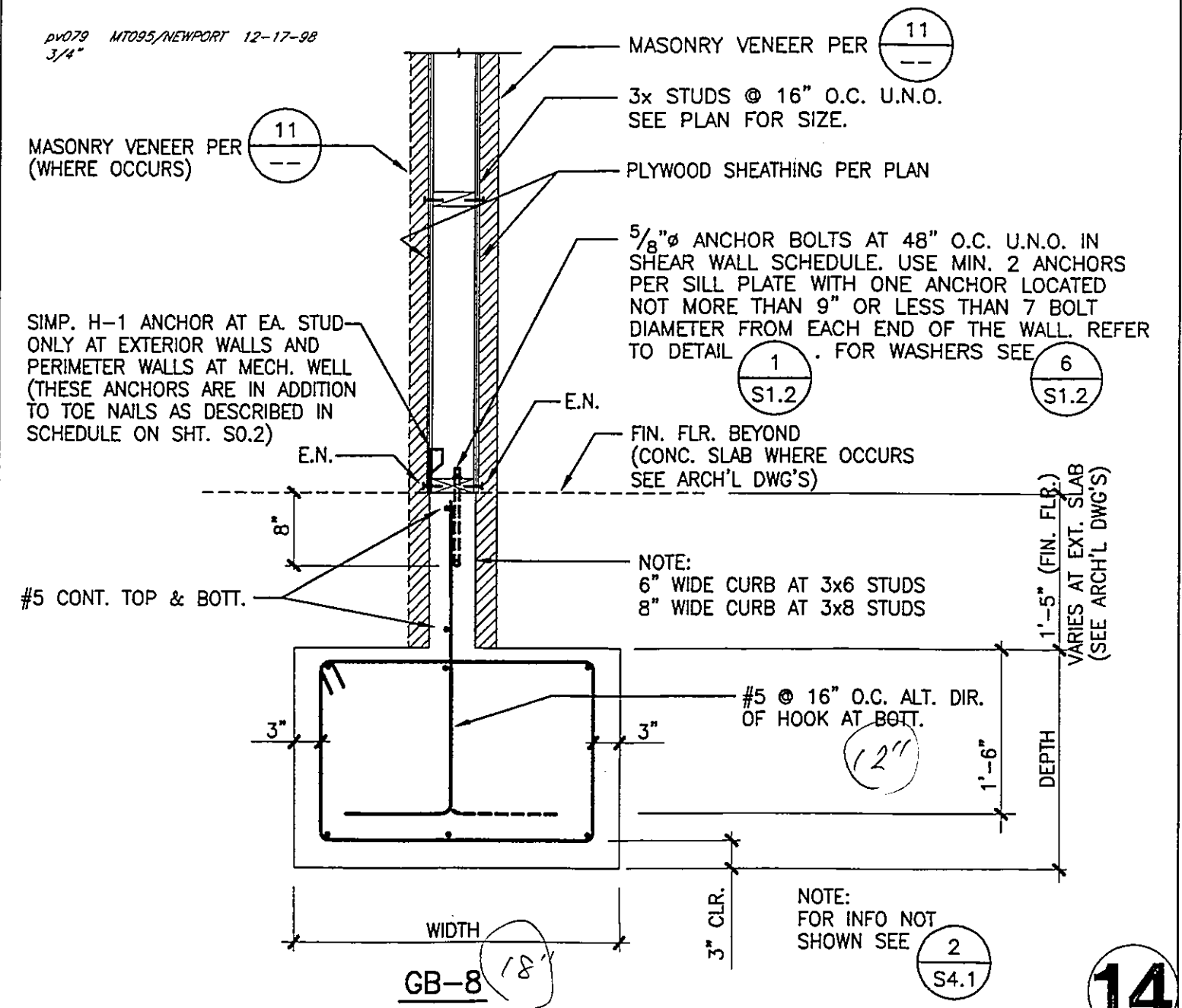
INTERIOR WALL GRADE BEAMS
GB-1, GB-3, GB-4, GB-5 AND GB-6 ***

EXTERIOR WALL GRADE BEAMS
GB-2 AND GB-7

10

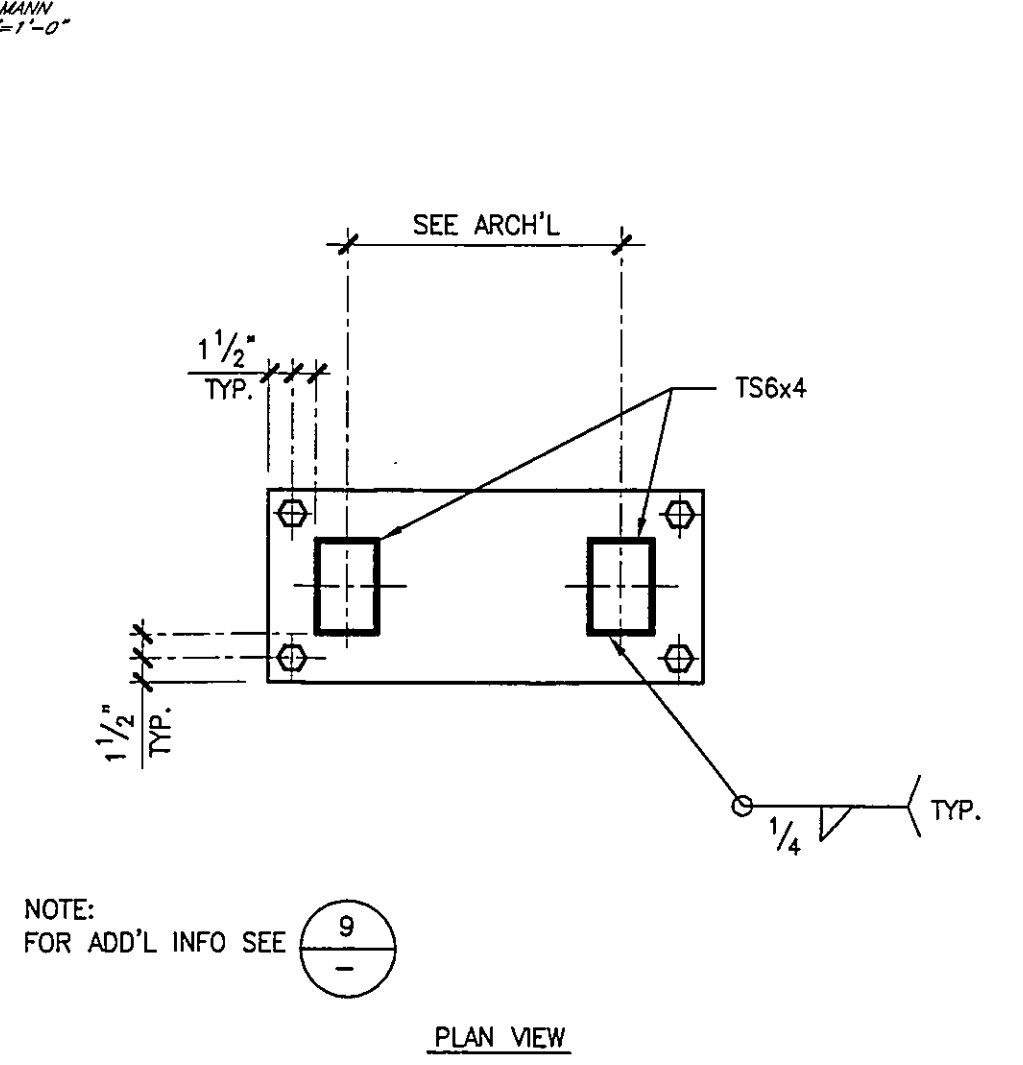
INTERIOR/EXTERIOR WALL FOOTING/GRADE BEAM

2



14

COMBINED TS COL. BASE PLATE



18

PLAN VIEW

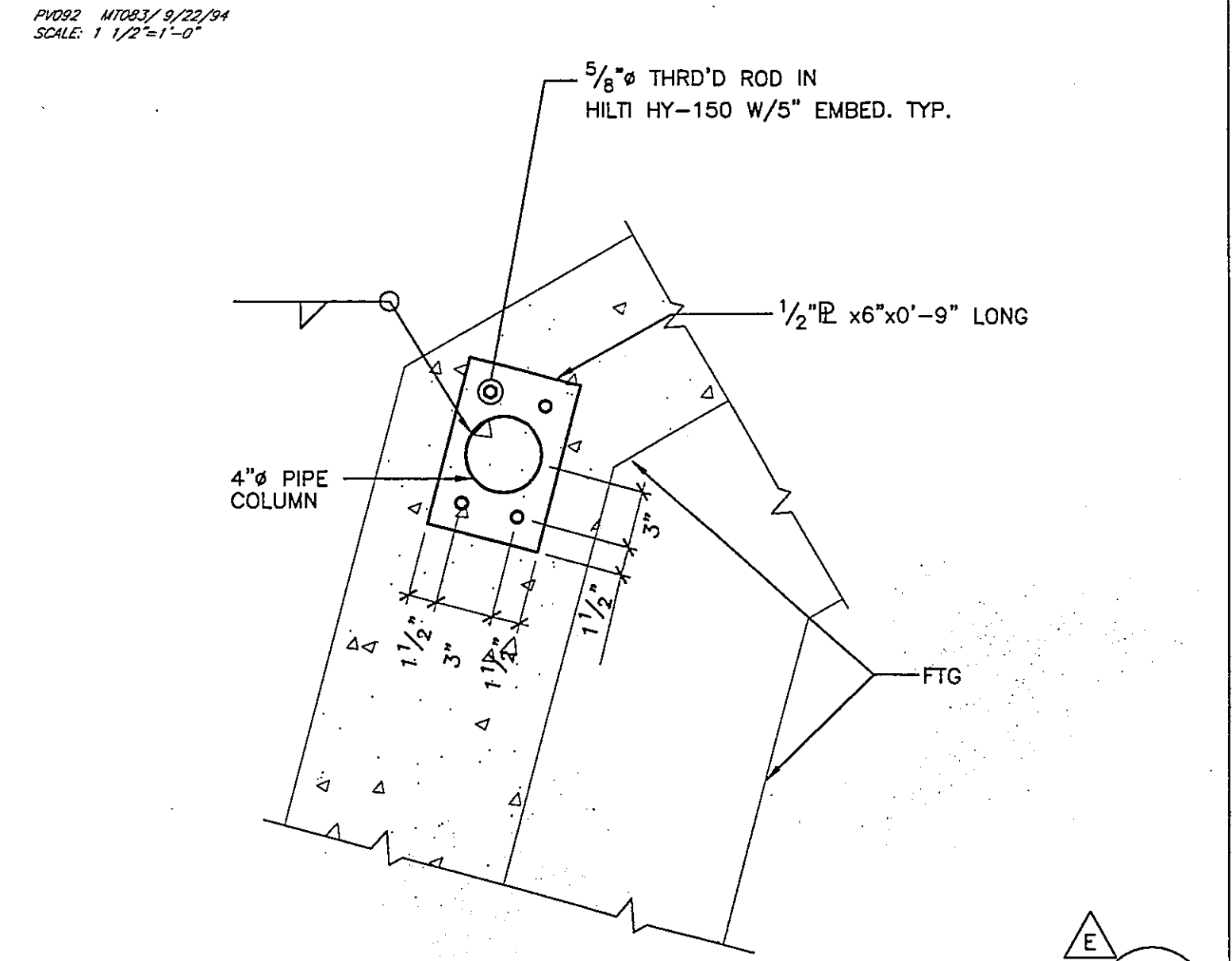
INTERIOR WALL GRADE BEAMS
GB-1, GB-3, GB-4, GB-5 AND GB-6 ***

EXTERIOR WALL GRADE BEAMS
GB-2 AND GB-7

10

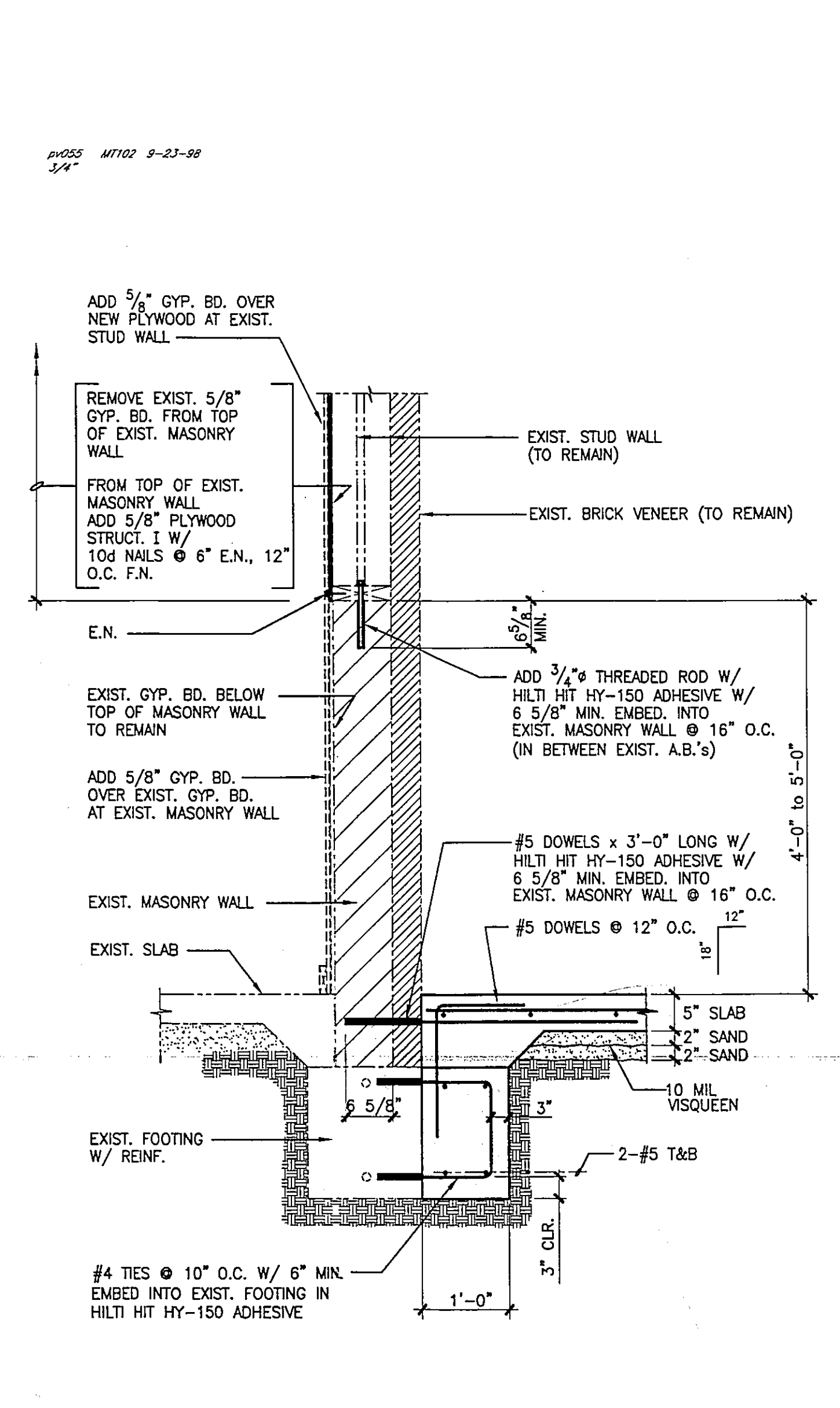
INTERIOR/EXTERIOR WALL FOOTING/GRADE BEAM

2



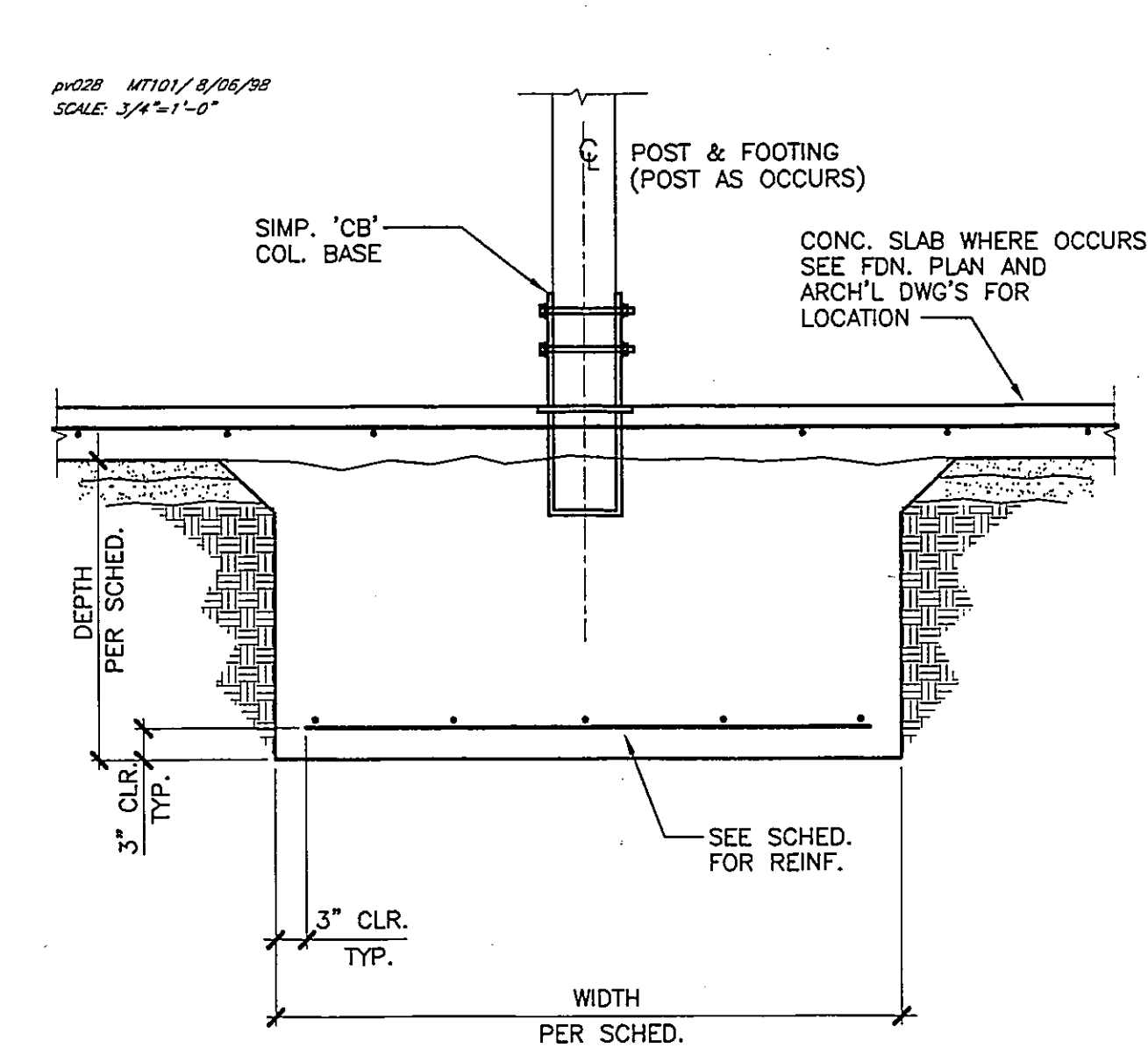
19

ATTACHMENT OF VENEER TO STUD WALL



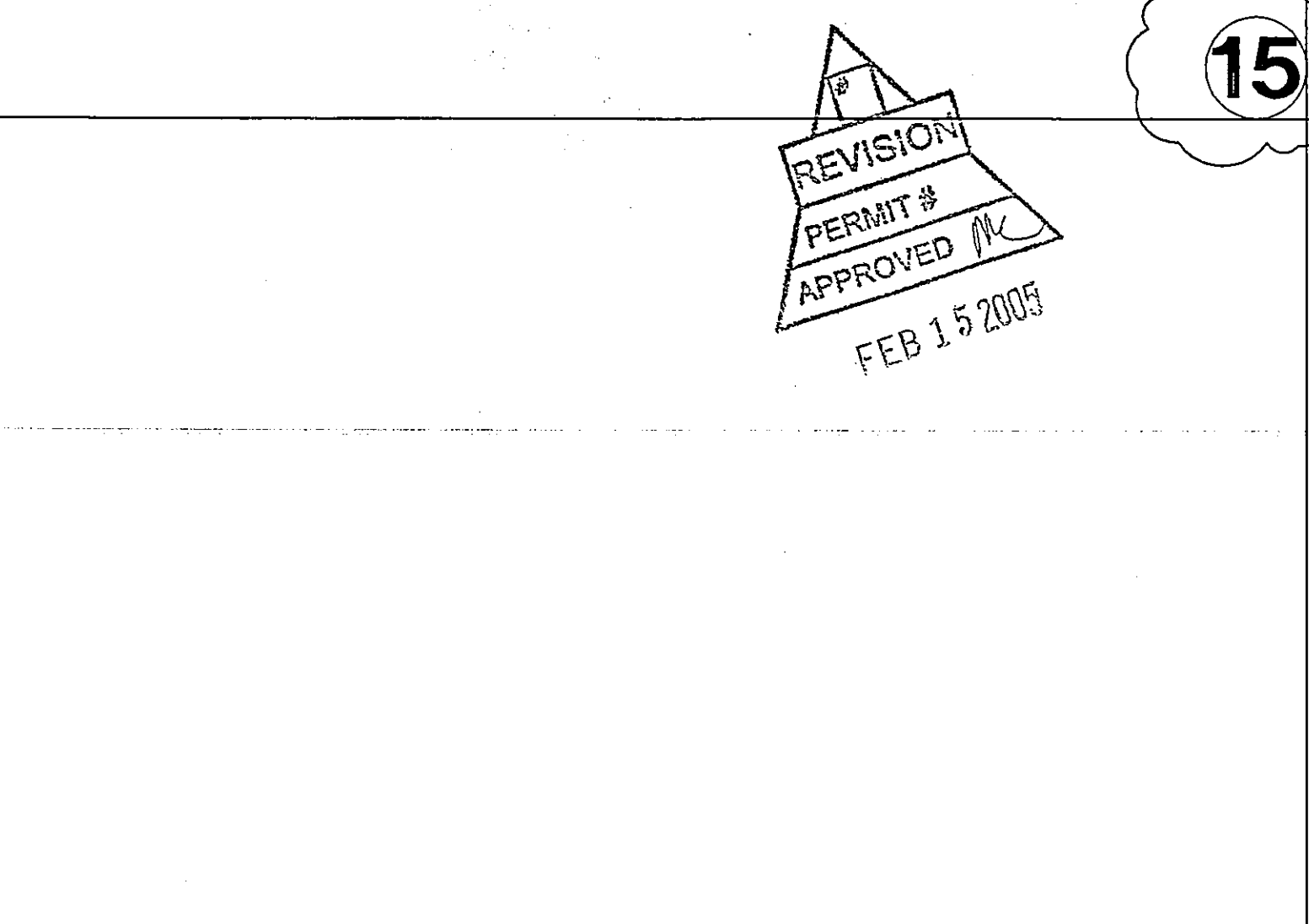
12

FOOTING DETAIL



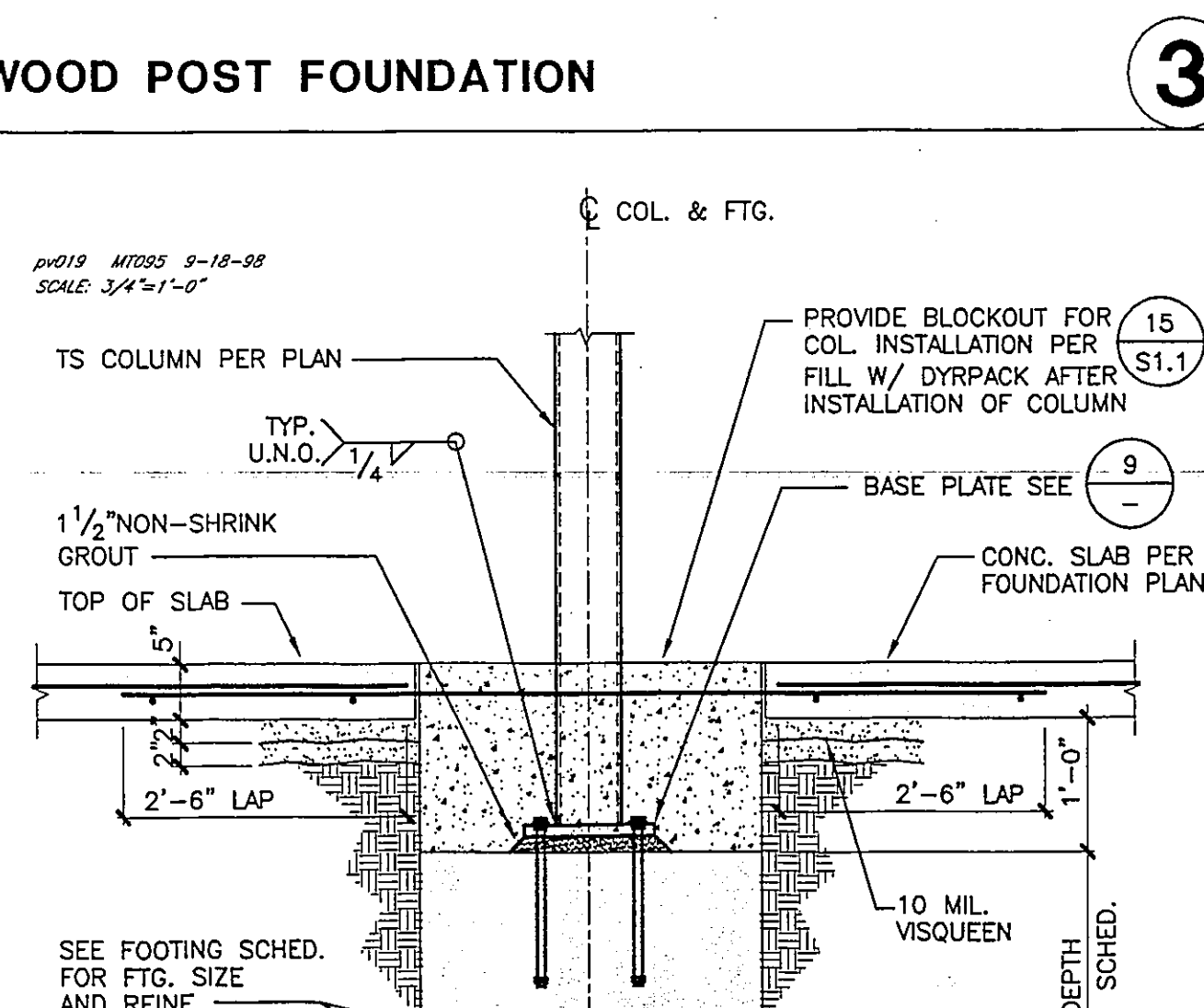
15

WOOD POST FOUNDATION



20

PLAN VIEW AT EXHIBIT NOOK



8

TUBE STEEL COL. FOUNDATION

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ECC Structural Engineers Division
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Corona, CA 92625
Phone (714) 794-4242
Fax (714) 794-4272

POINT VICENTE INTERPRETIVE
CENTER EXPANSION
Verdes Drive West
Petaluma, CA

FOUNDATION
DETAILS

DRAWN	DM
CHECKED	SM
DATE	
SCALE	AS NOTED
JOB. NO.	2653401
SHEET	

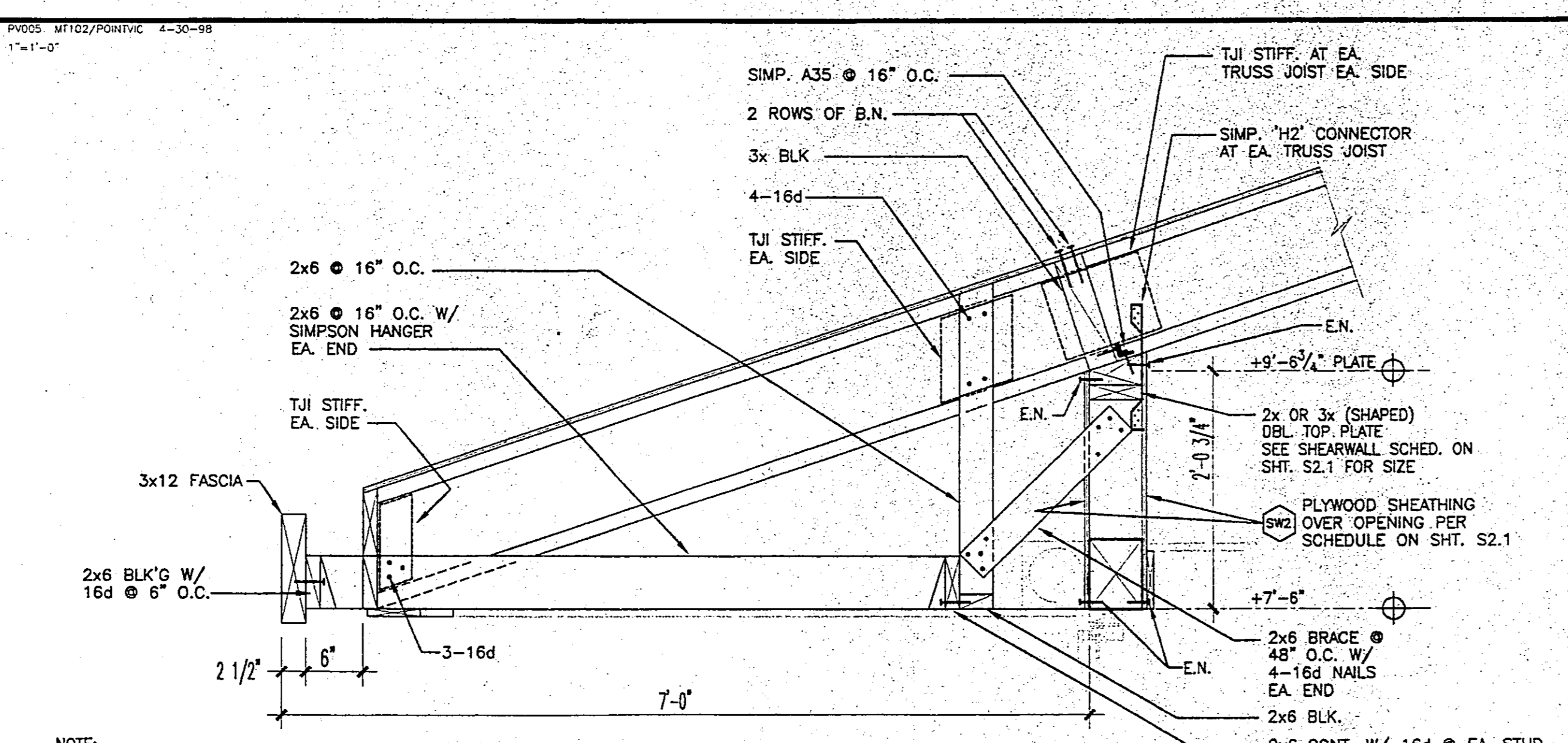
S4.1

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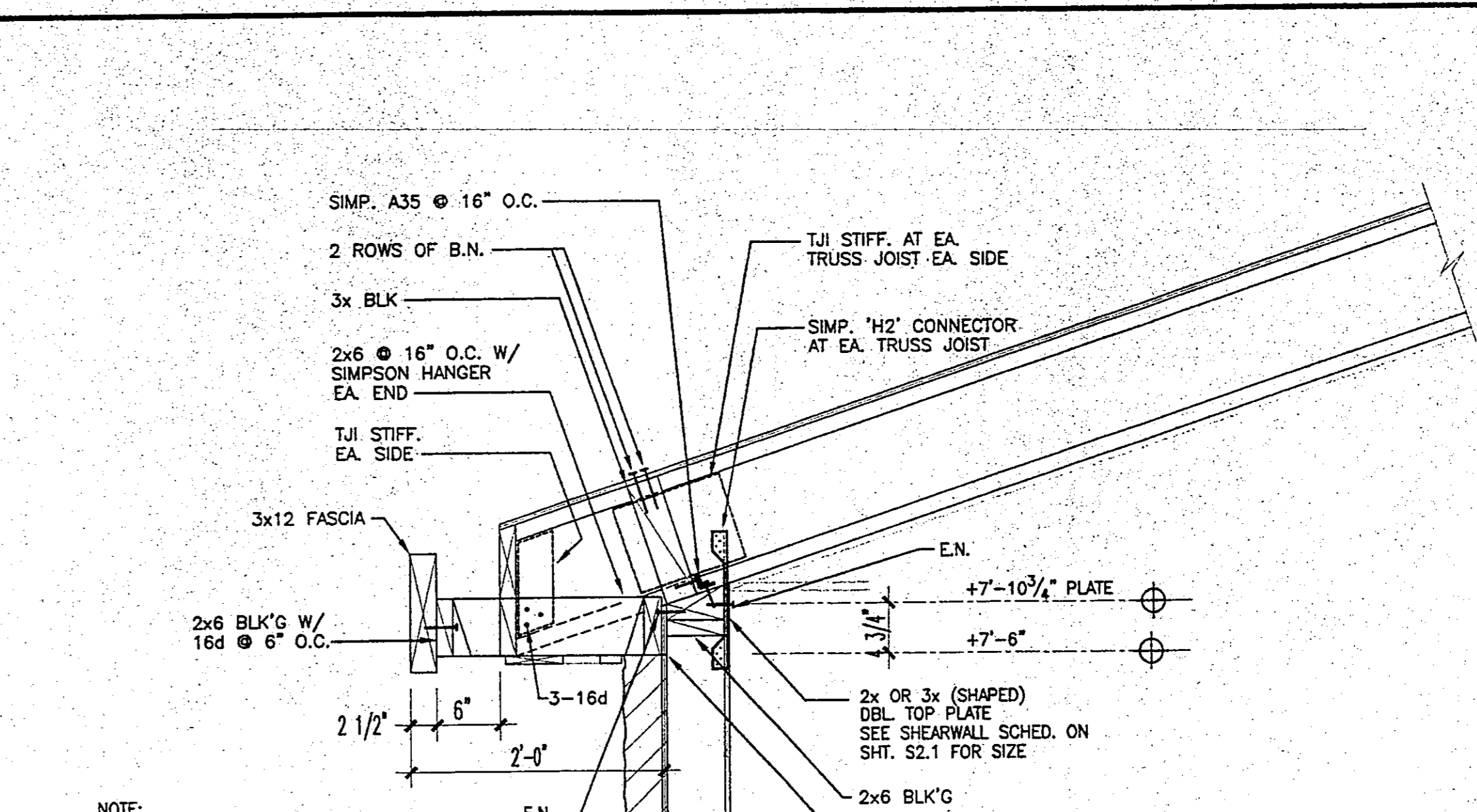
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17



NOTE: MIN. DEPTH OF SHAPED MEMBERS IS THE SIZE INDICATED.

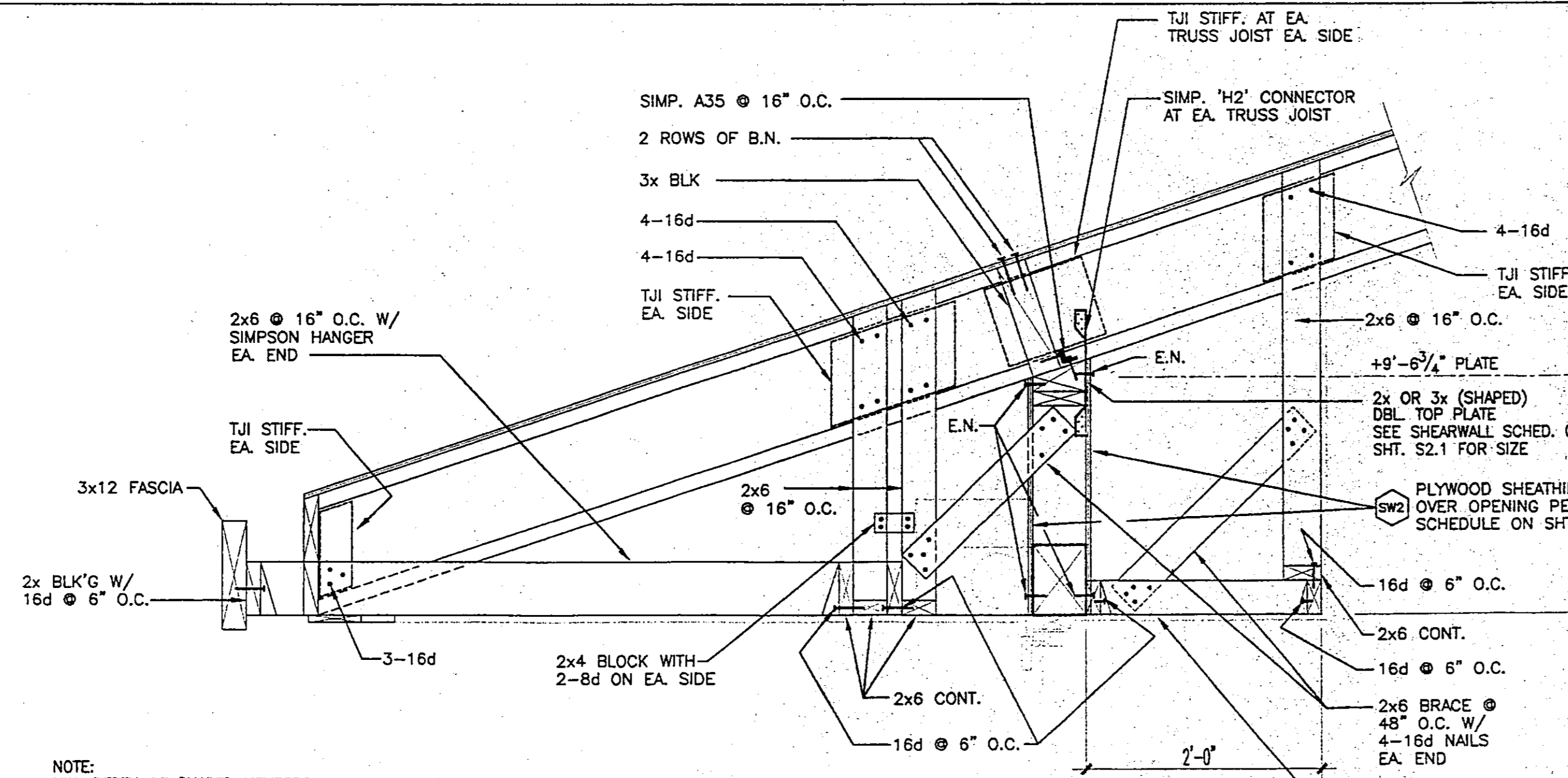
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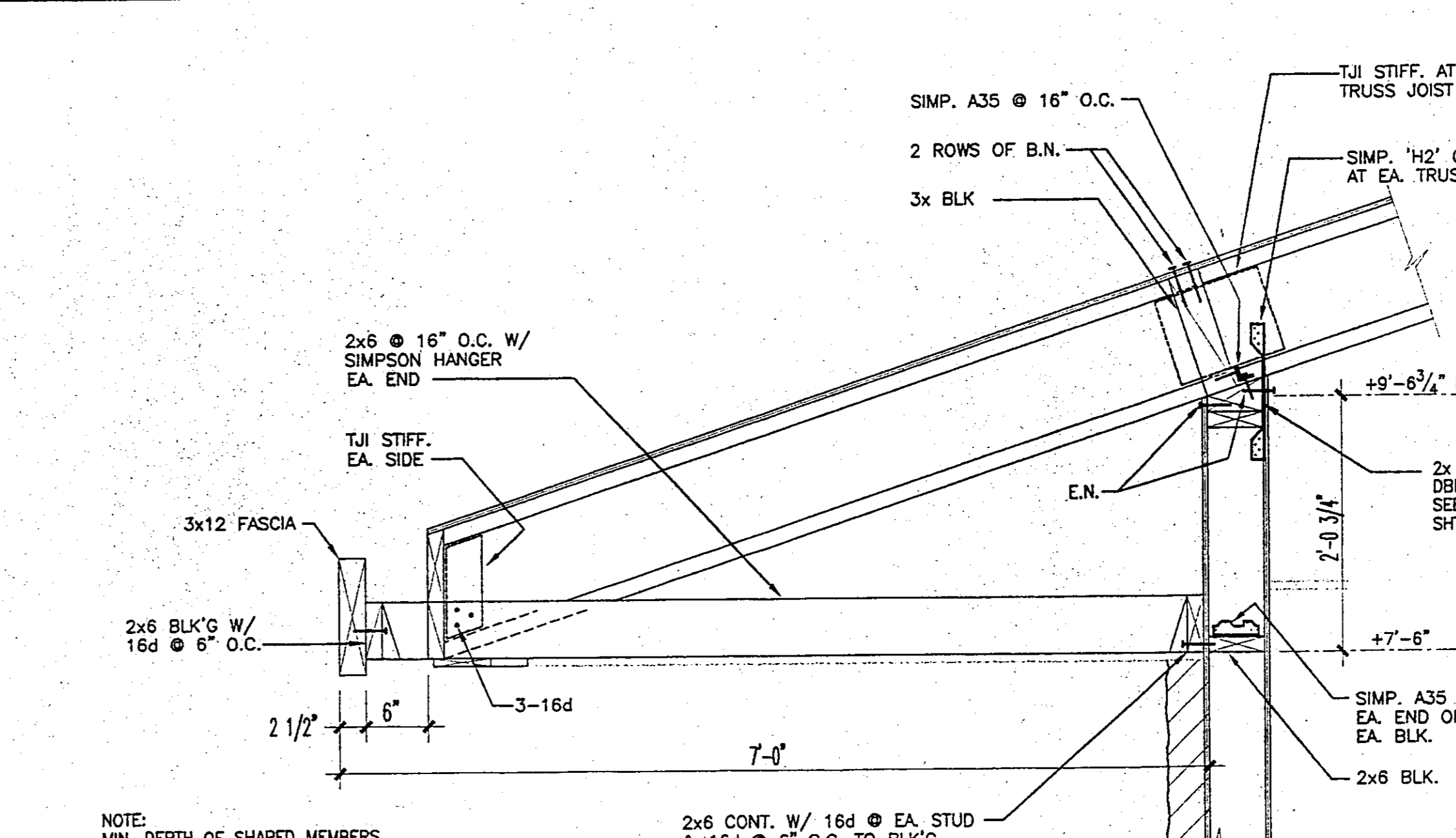
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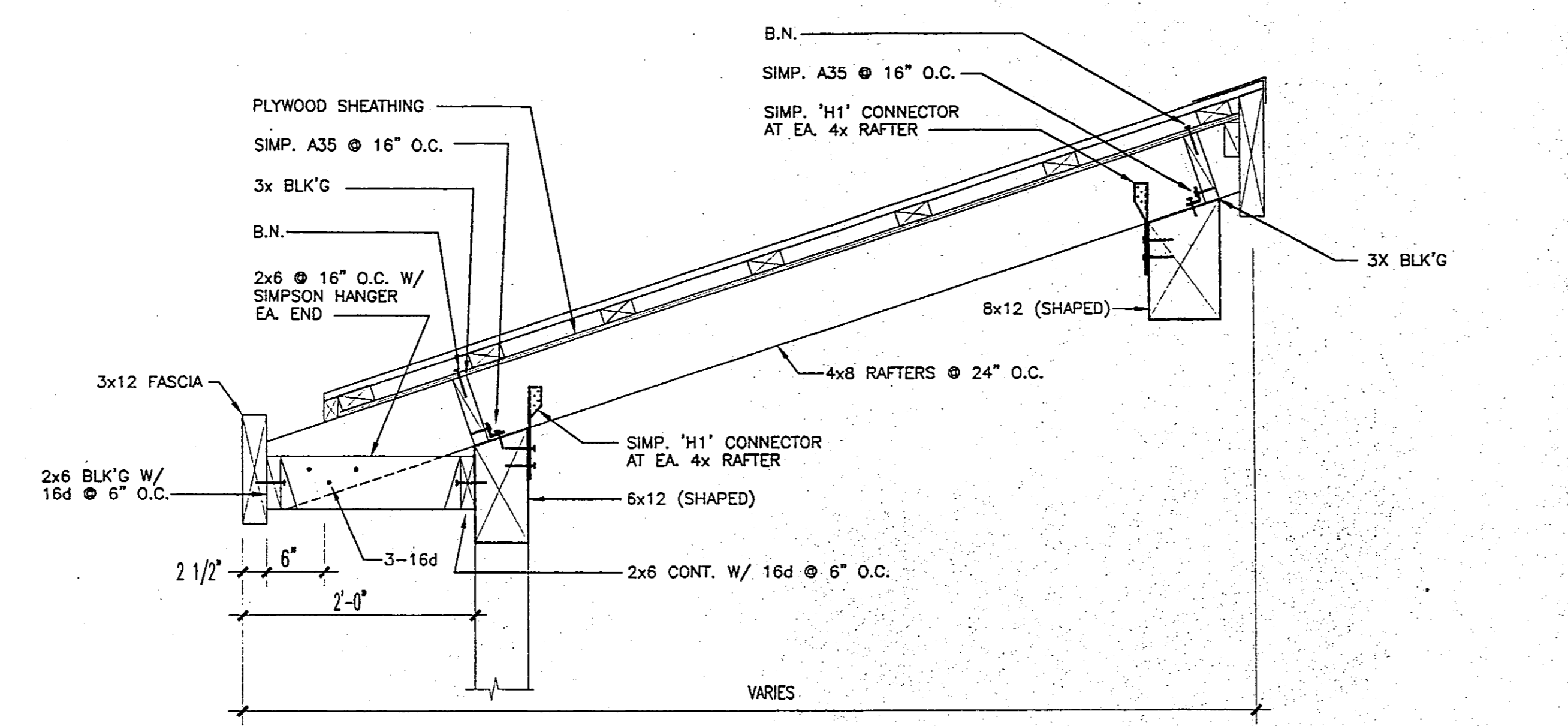
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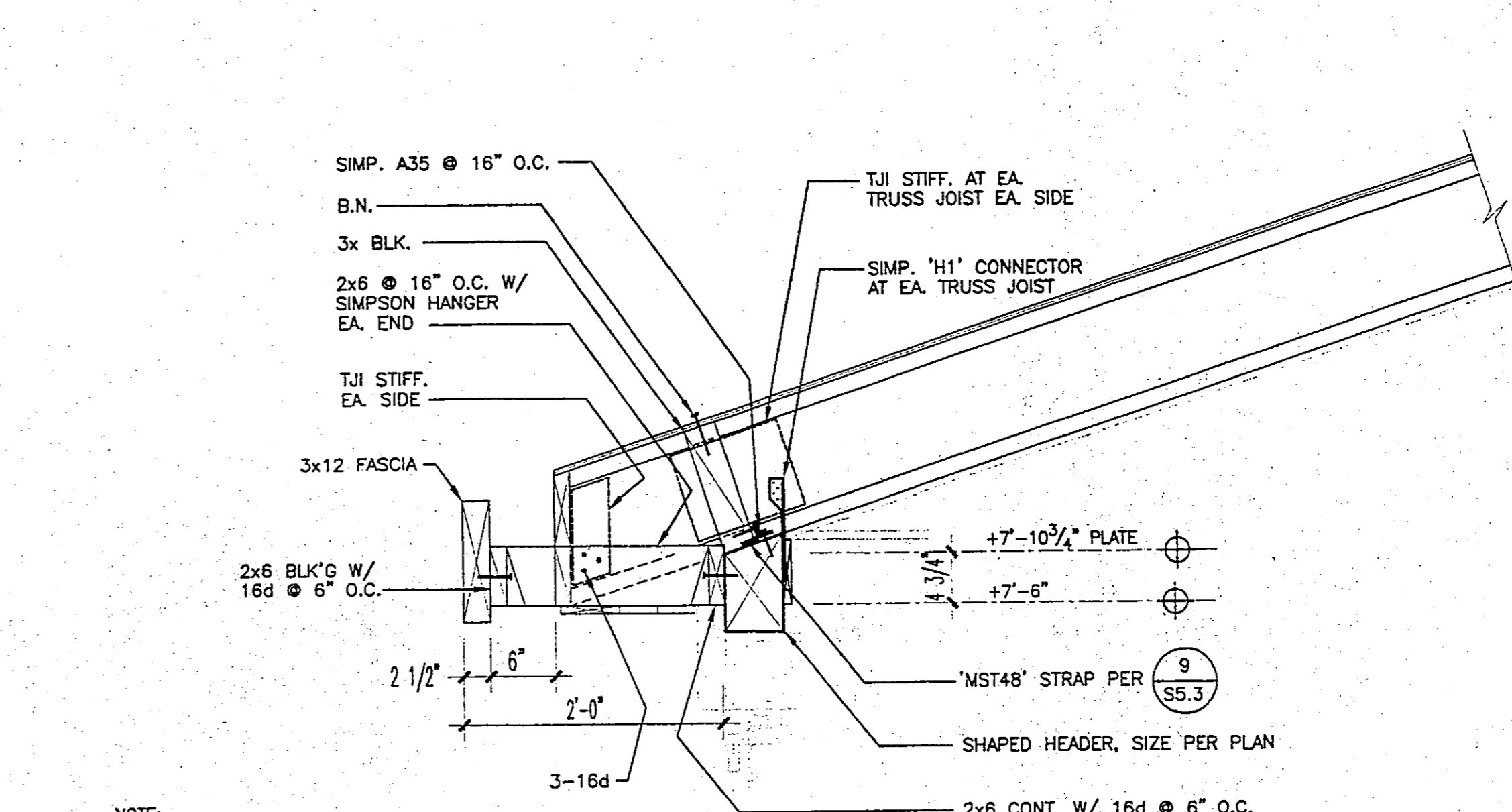
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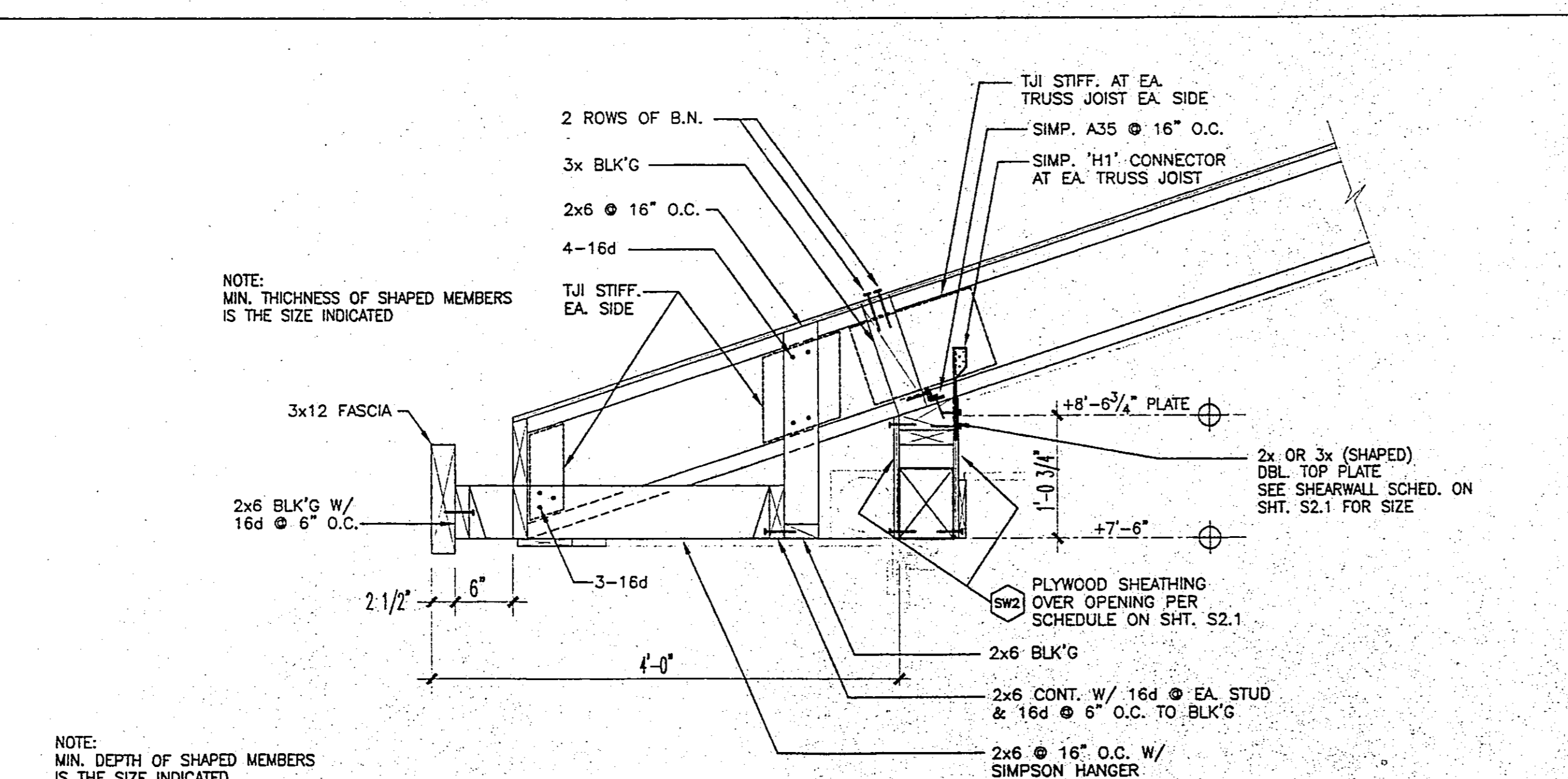
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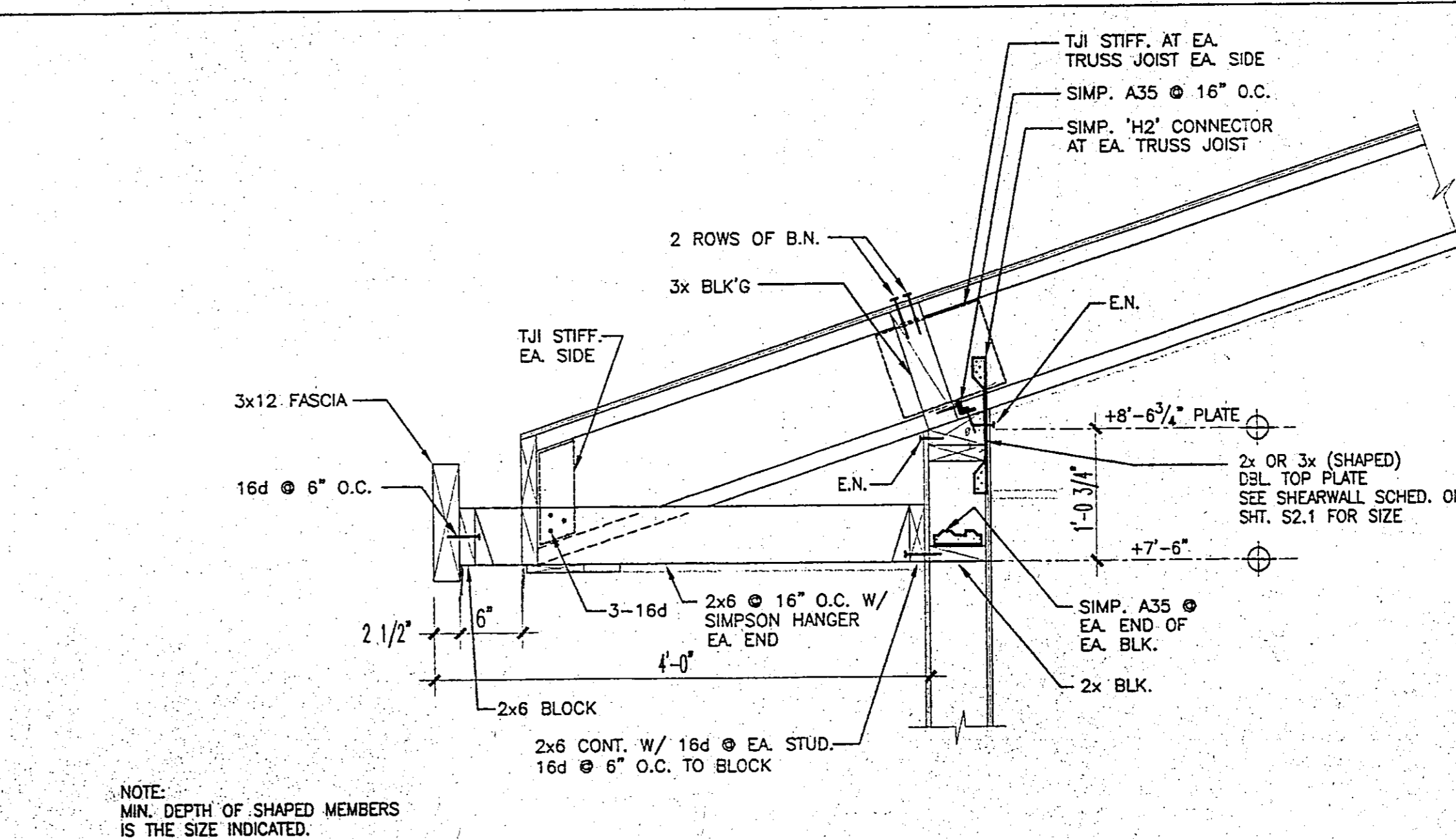
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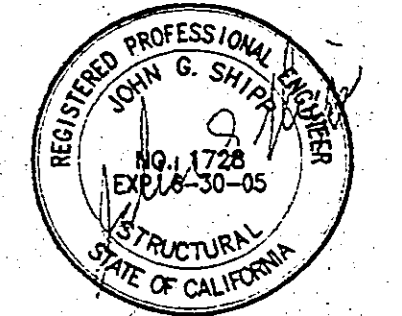
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NOTE: MIN. DEPTH OF SHAPED MEMBERS IS THE SIZE INDICATED.

4

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 CALIFORNIA 92625 P:949-844-8111 F:949-644-0449
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



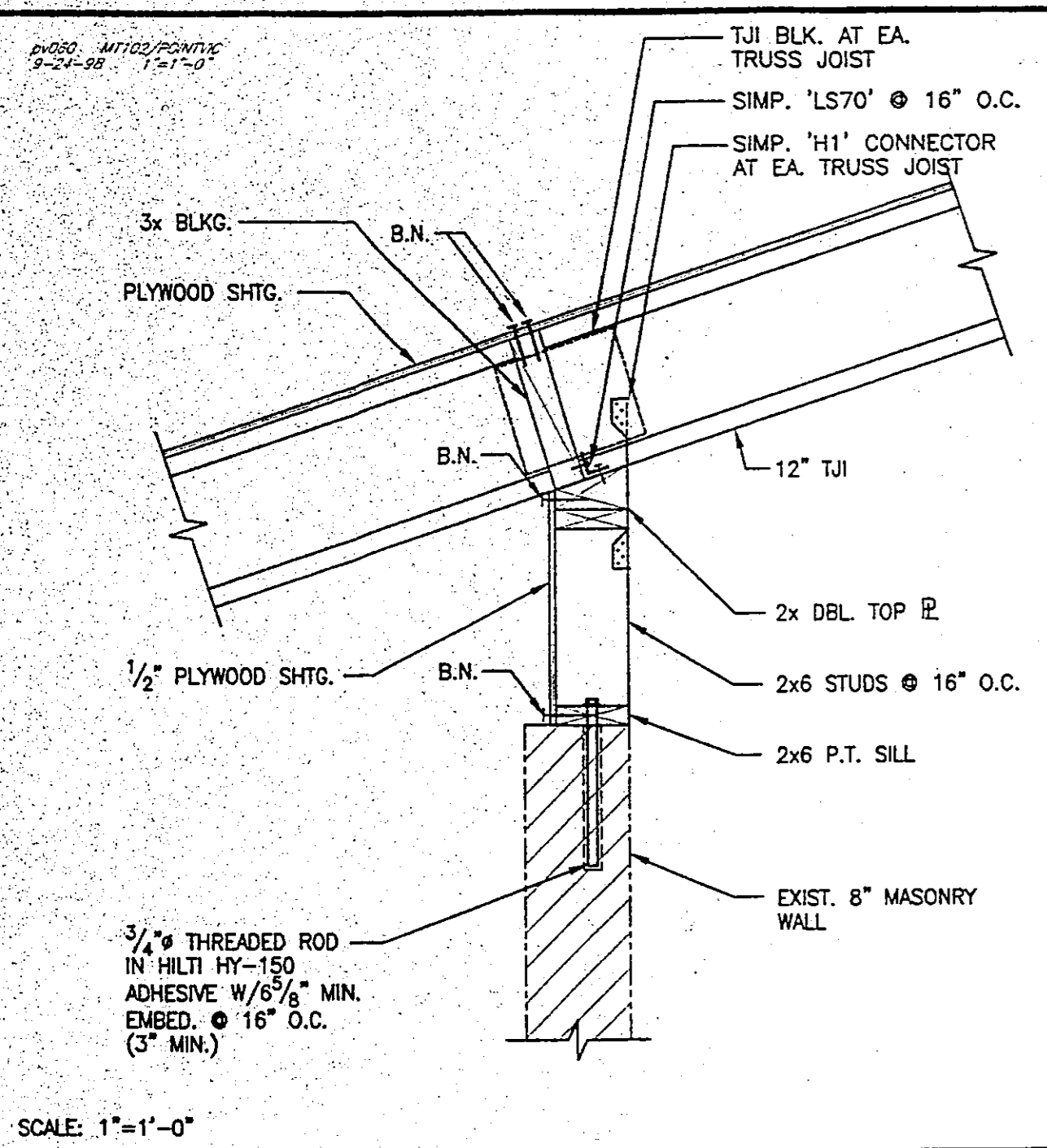
ABS Consulting
 ECE Structural Engineers Division
 300 Commerce Drive, Suite 300
 Irvine, Calif. 92602-3000 USA
 Phone (714) 734-5242
 Fax (714) 734-5272

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

ROOF FRAMING SECTIONS AND DETAILS

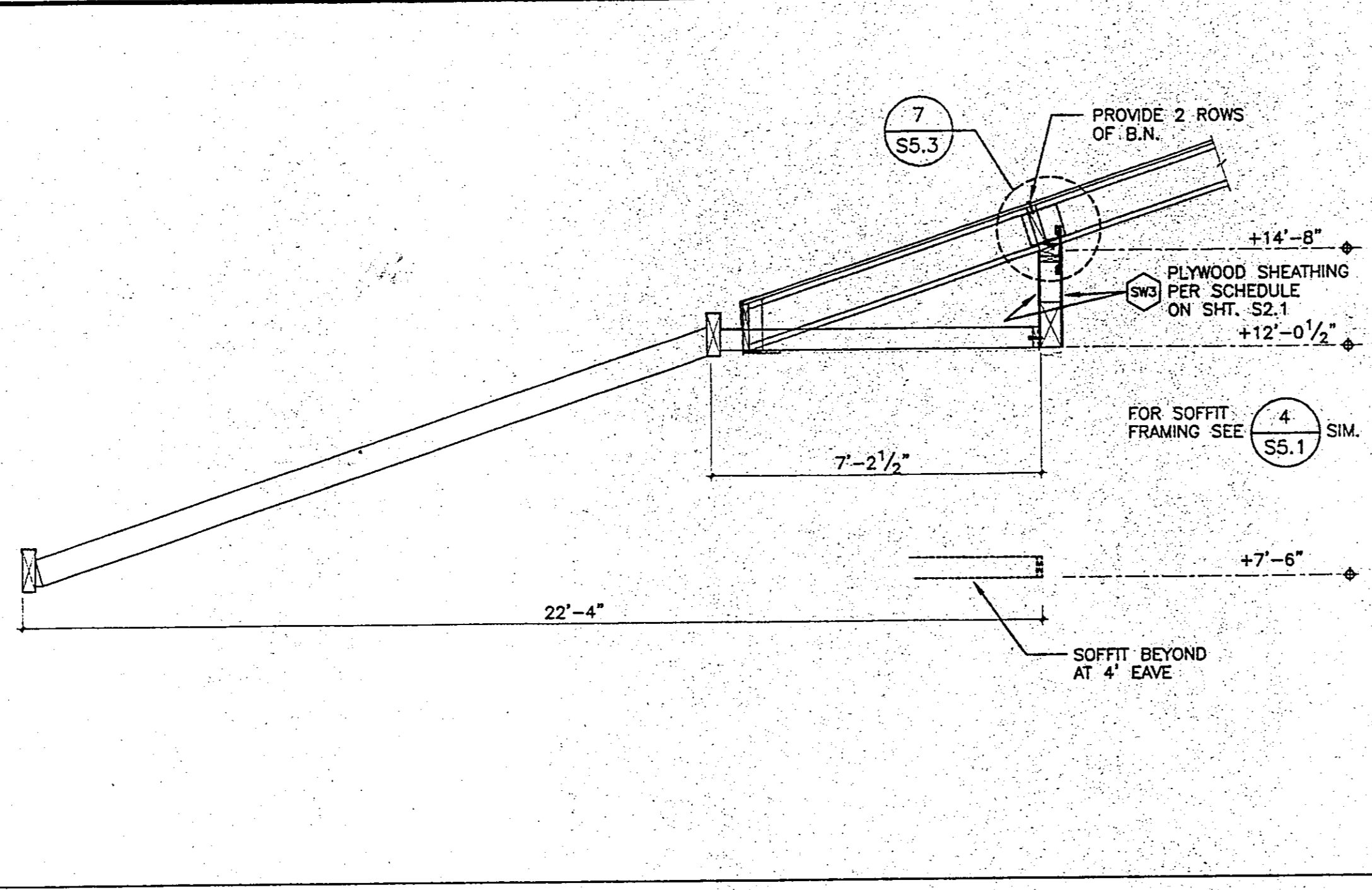
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JOB NO.	2663401
SHEET	

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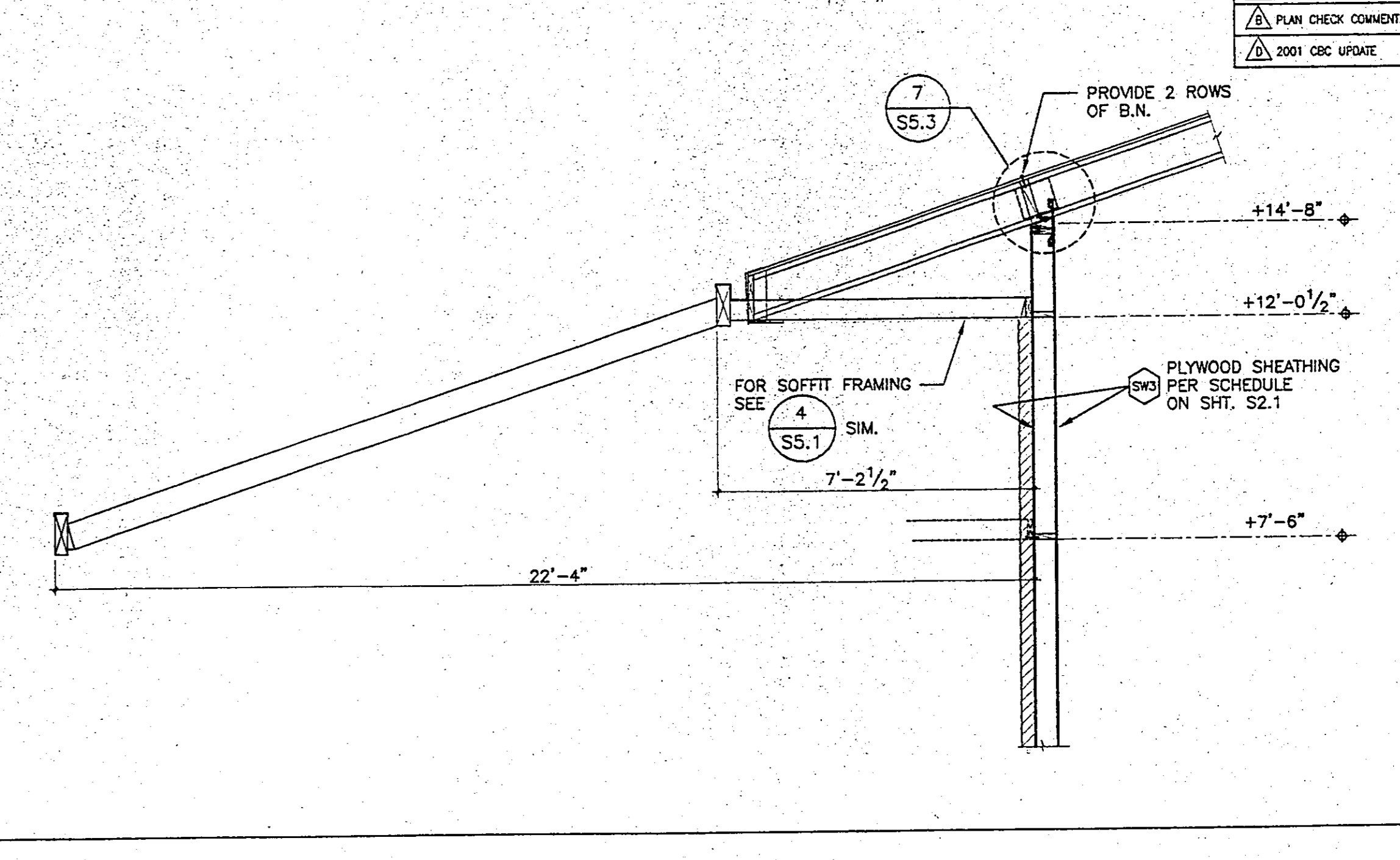
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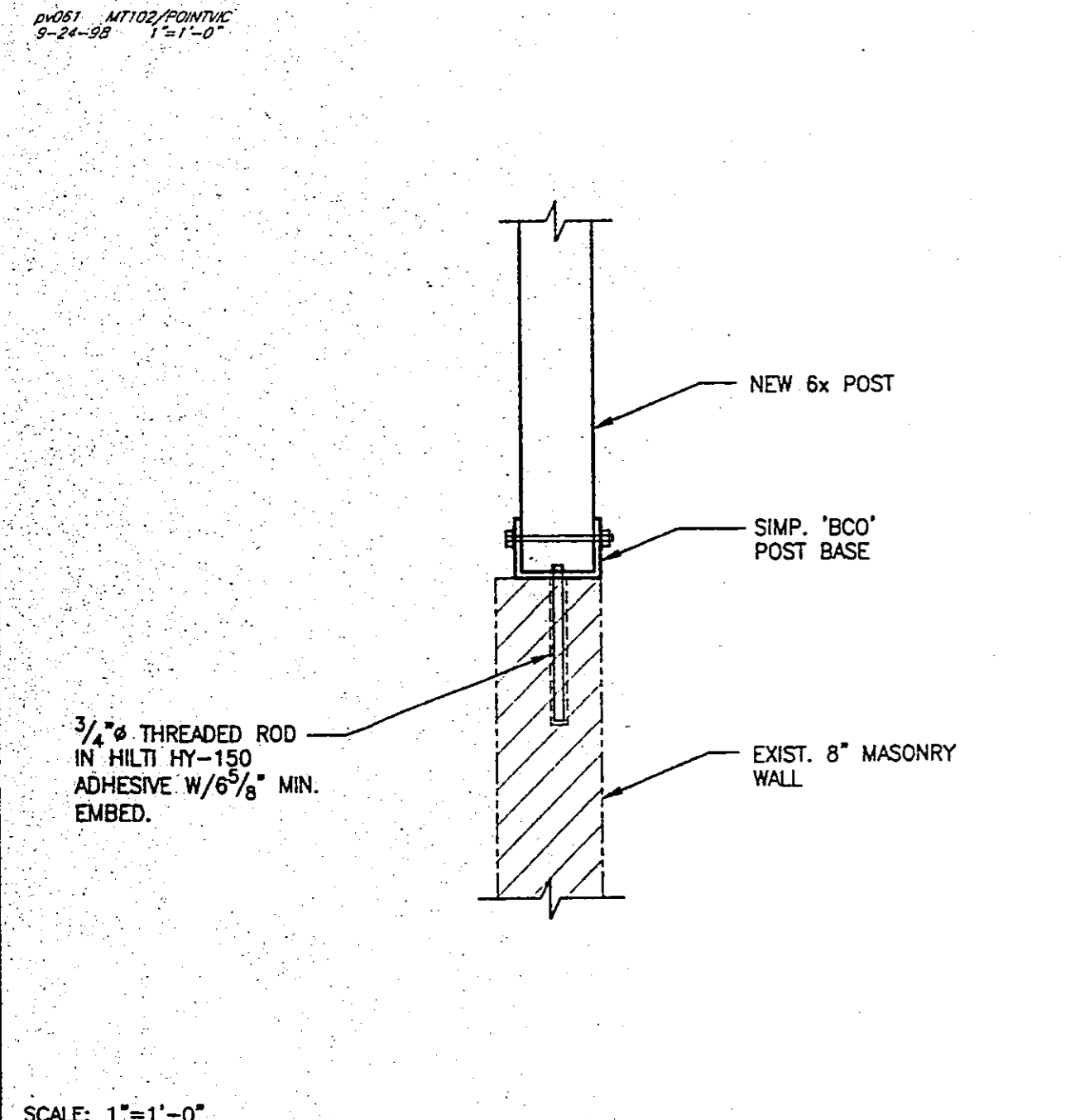


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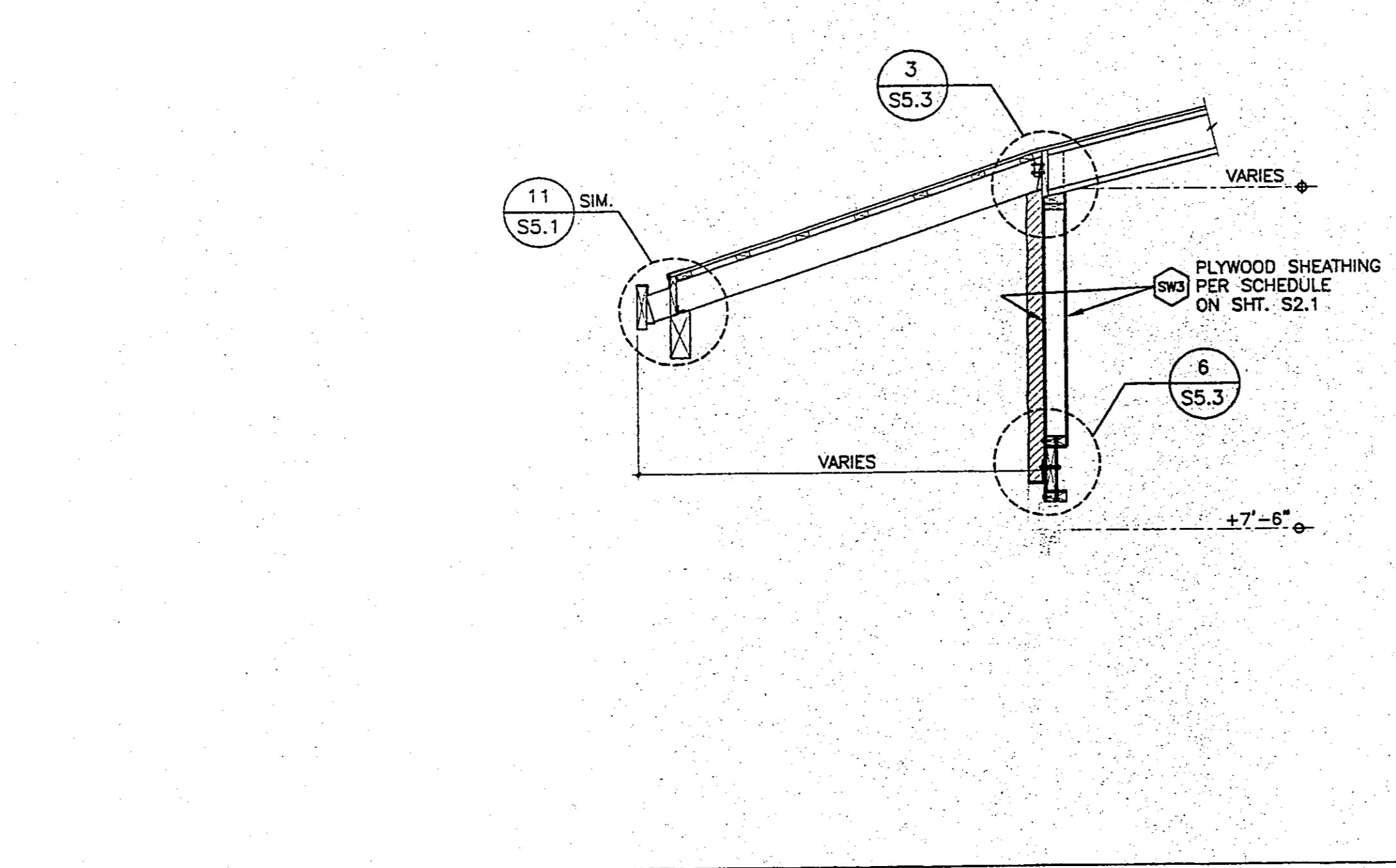


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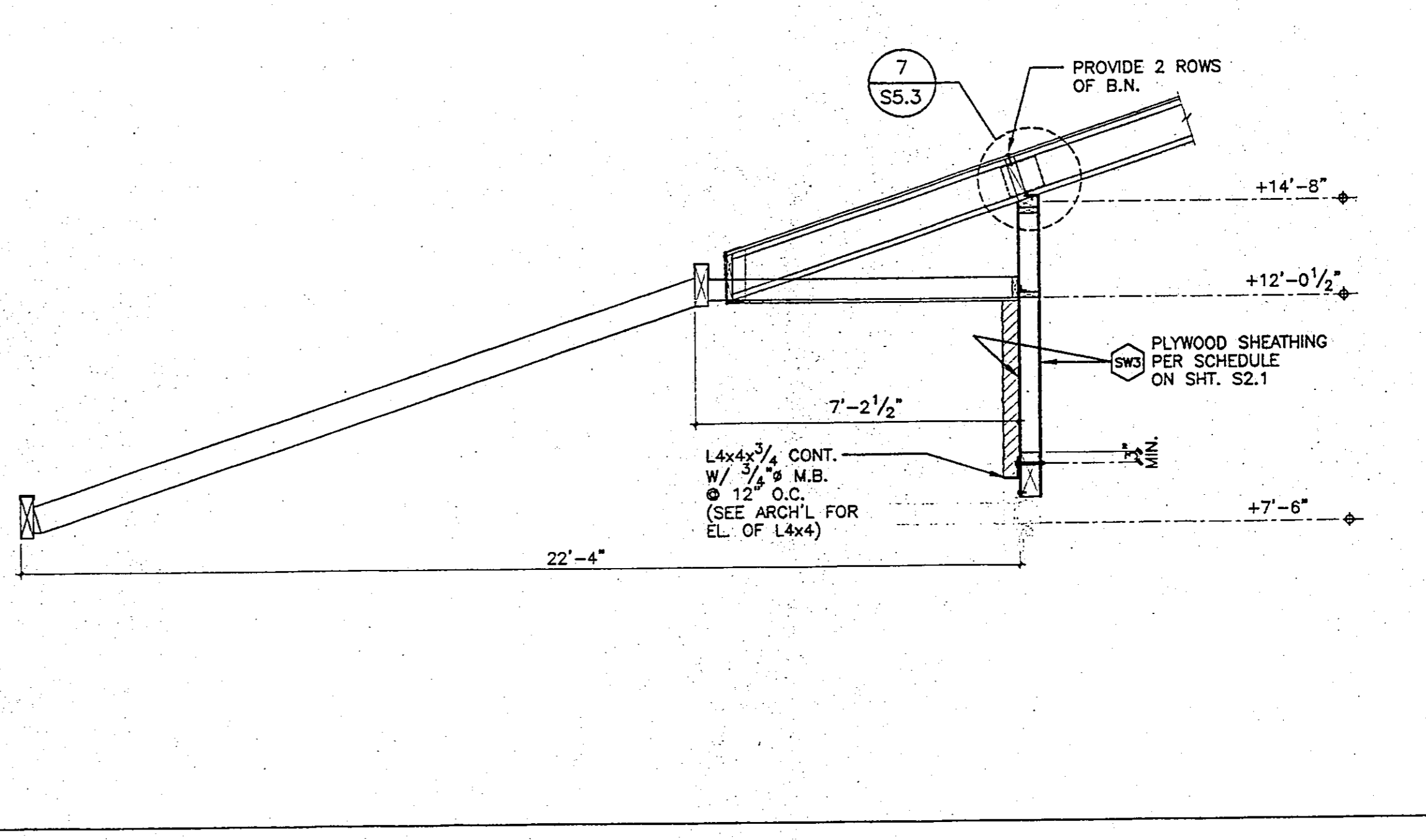
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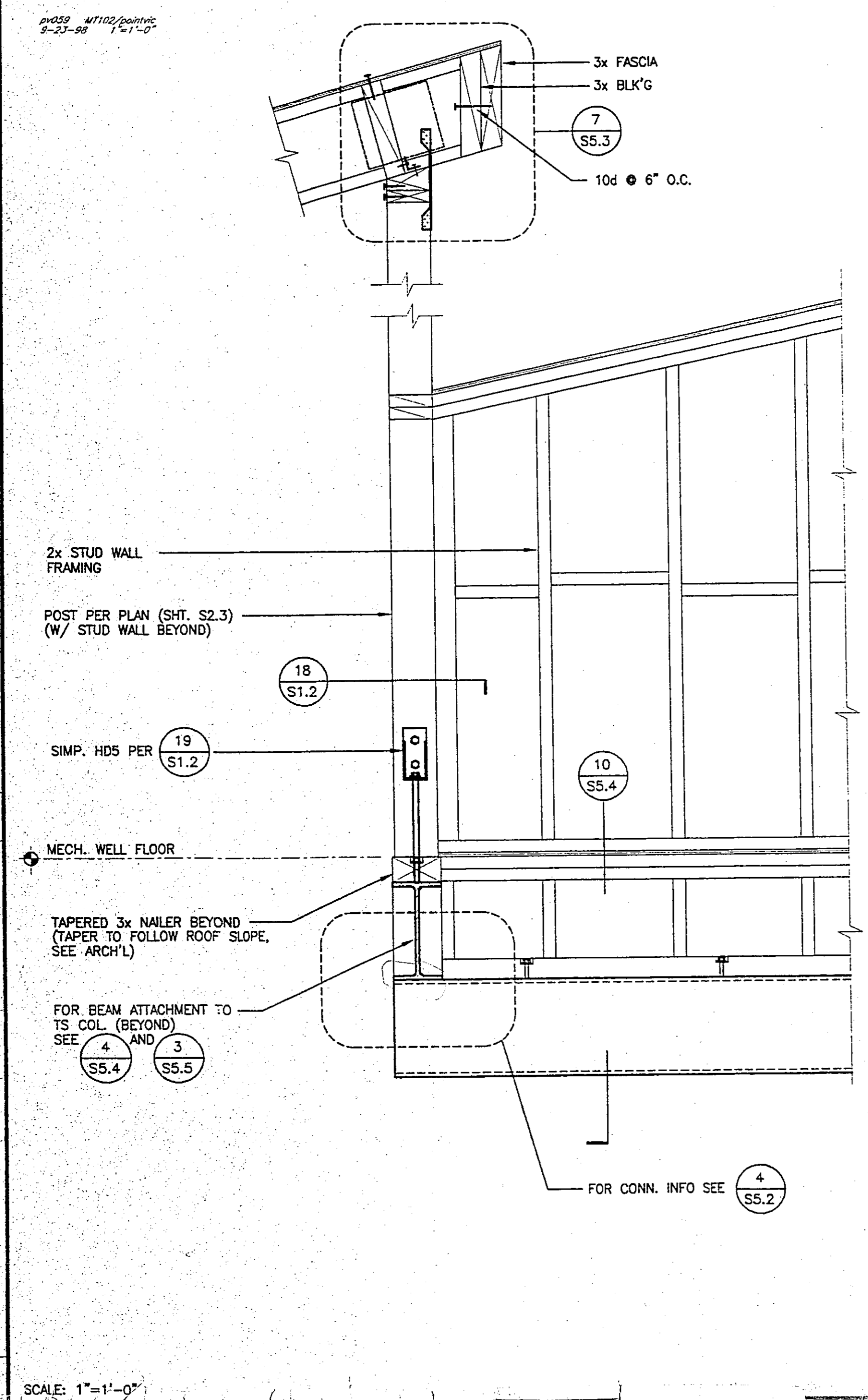


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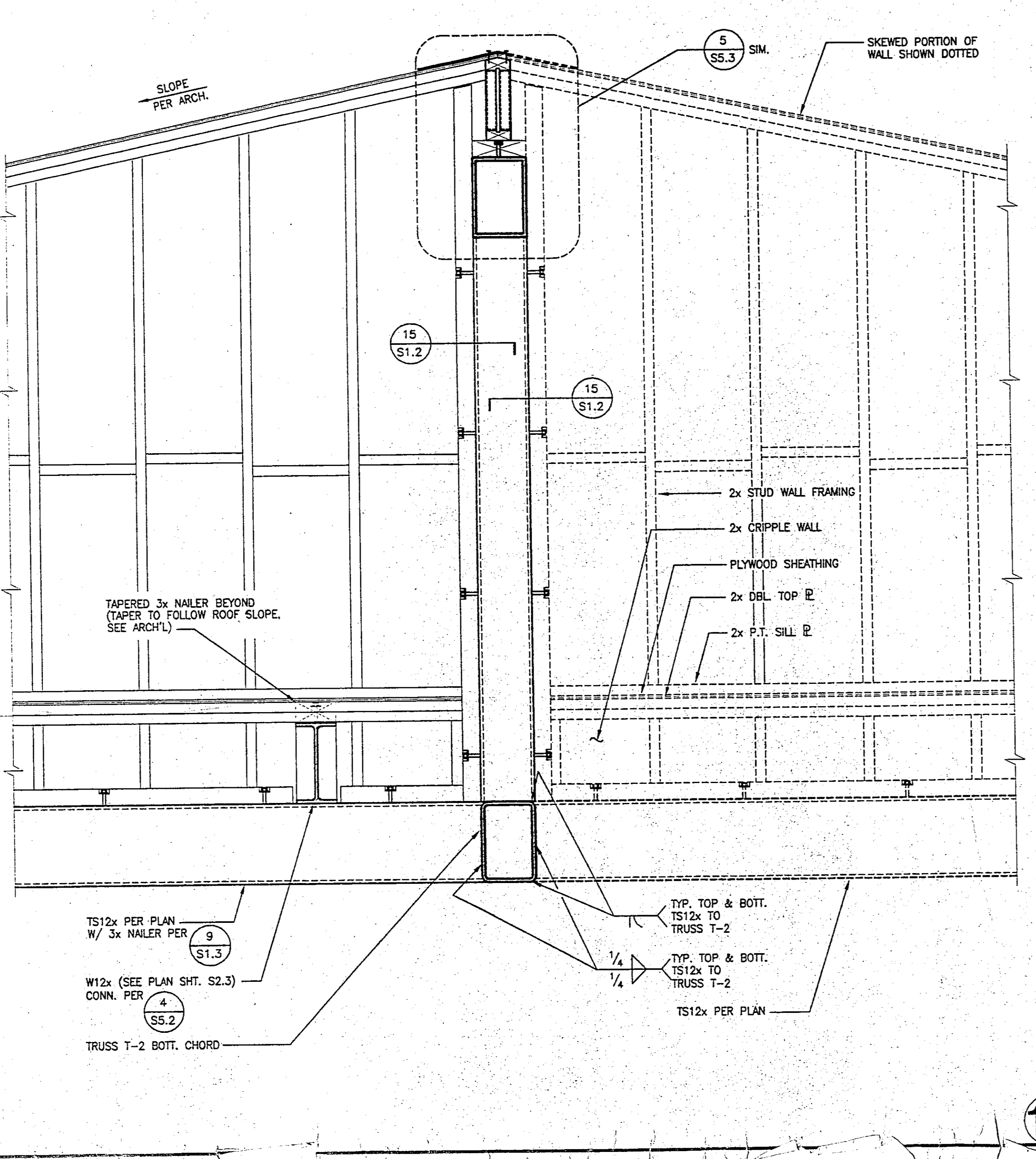


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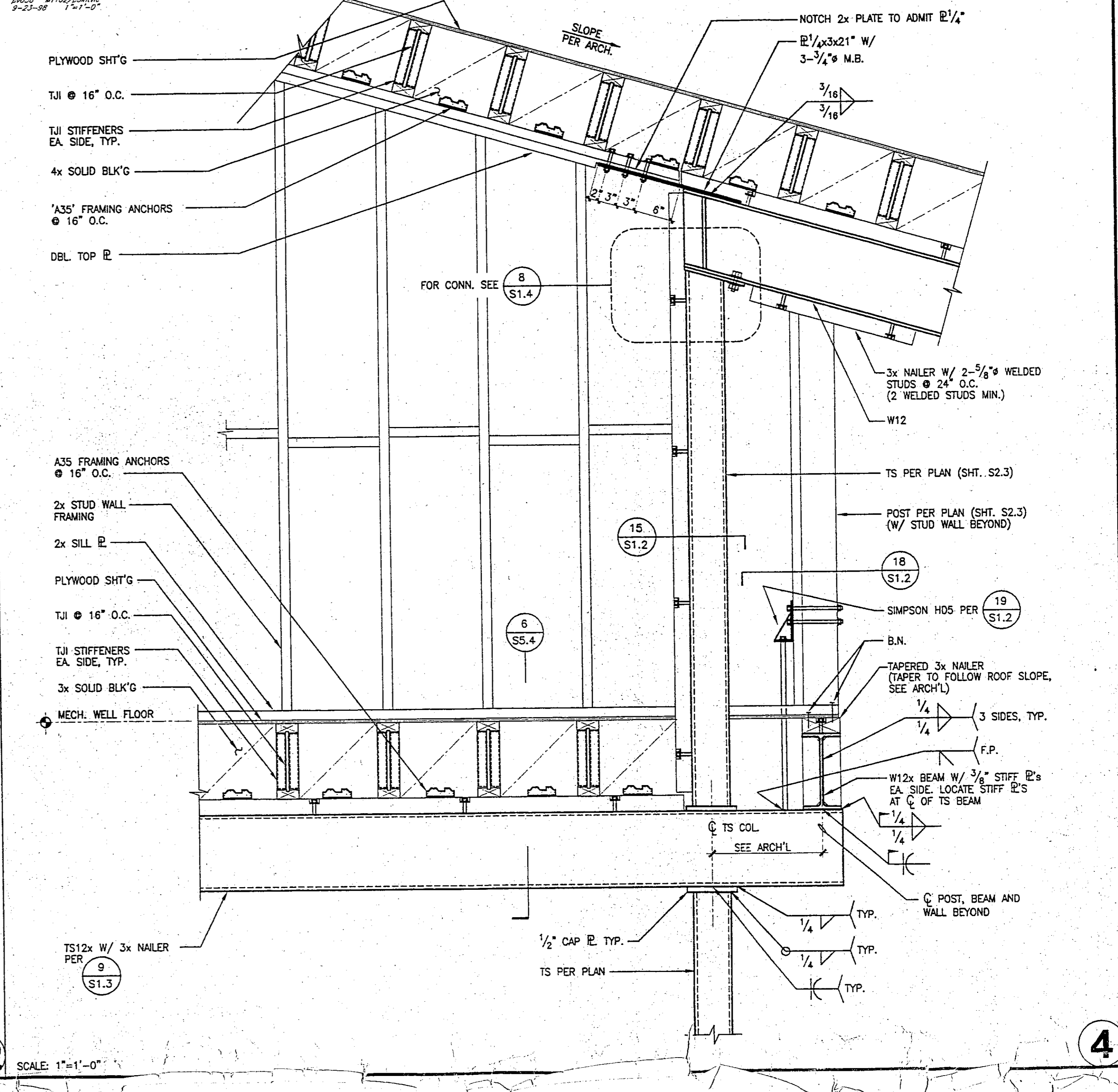
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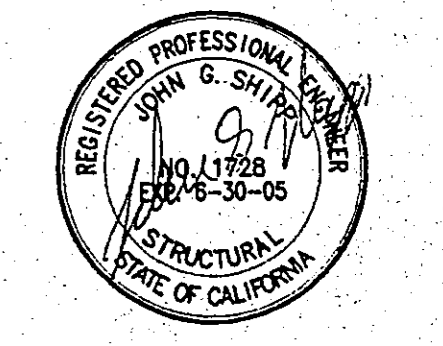
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4

PLAN CHECK SUBMITAL 9-28-98
 PLAN CHECK COMMENTS 1-15-99
 2001 CBC UPDATE 11-18-03

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ABS Consulting
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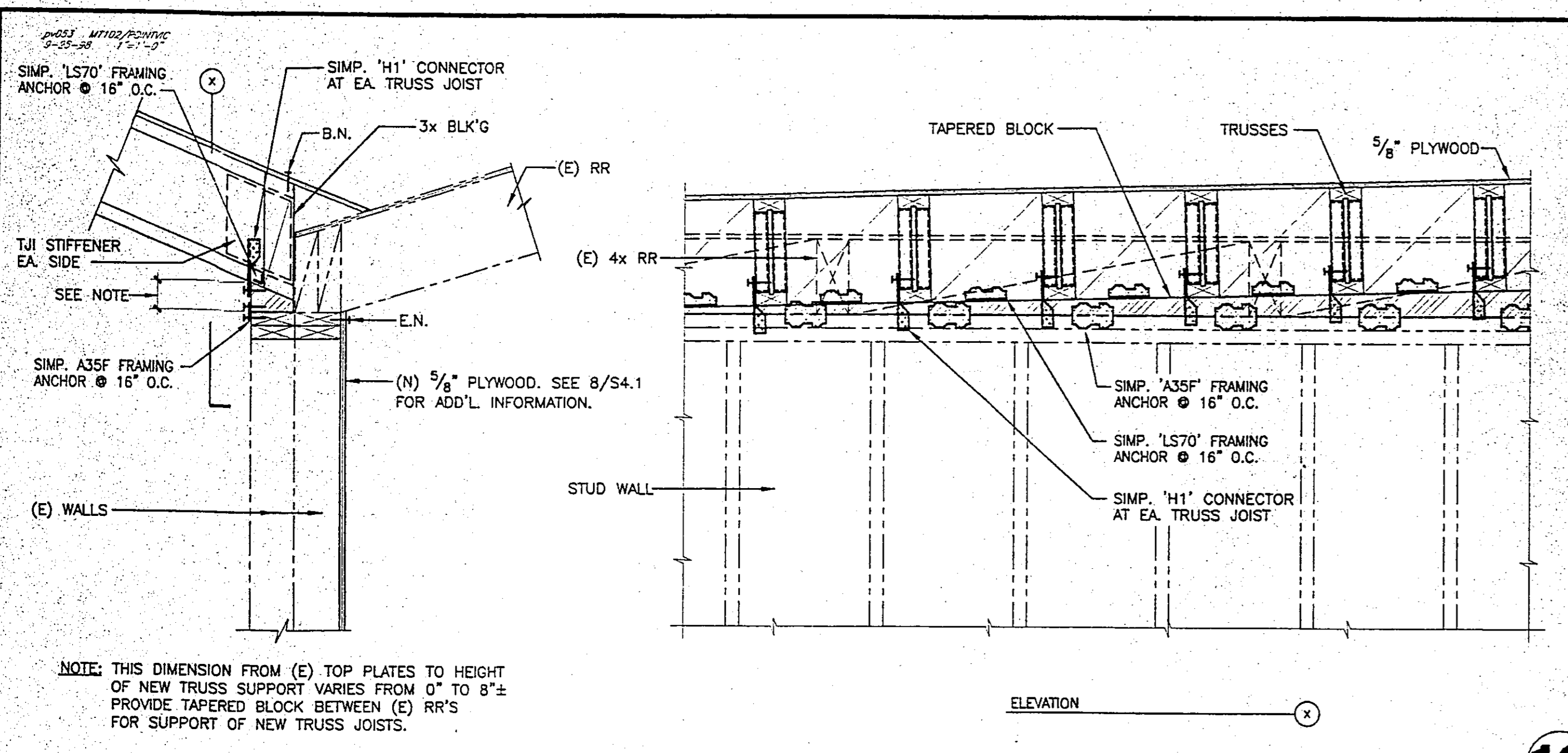
POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 E. Palms Verdes Drive, West
 Rancho Palms Verdes, CA

ROOF FRAMING SECTIONS AND DETAILS

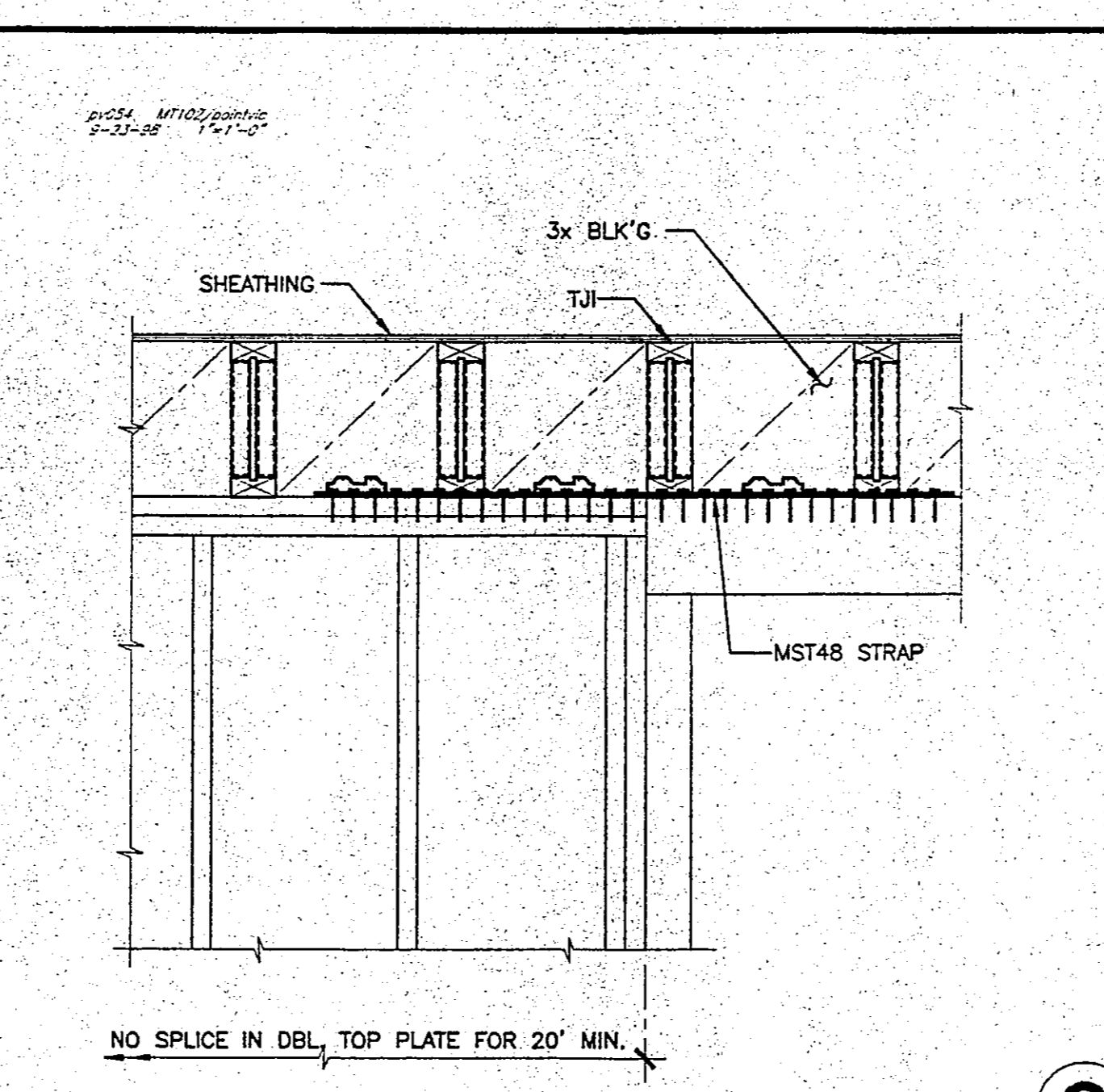
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 DATE
 SCALE 6/8"
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S5.2
 49 OF 69 SHEETS

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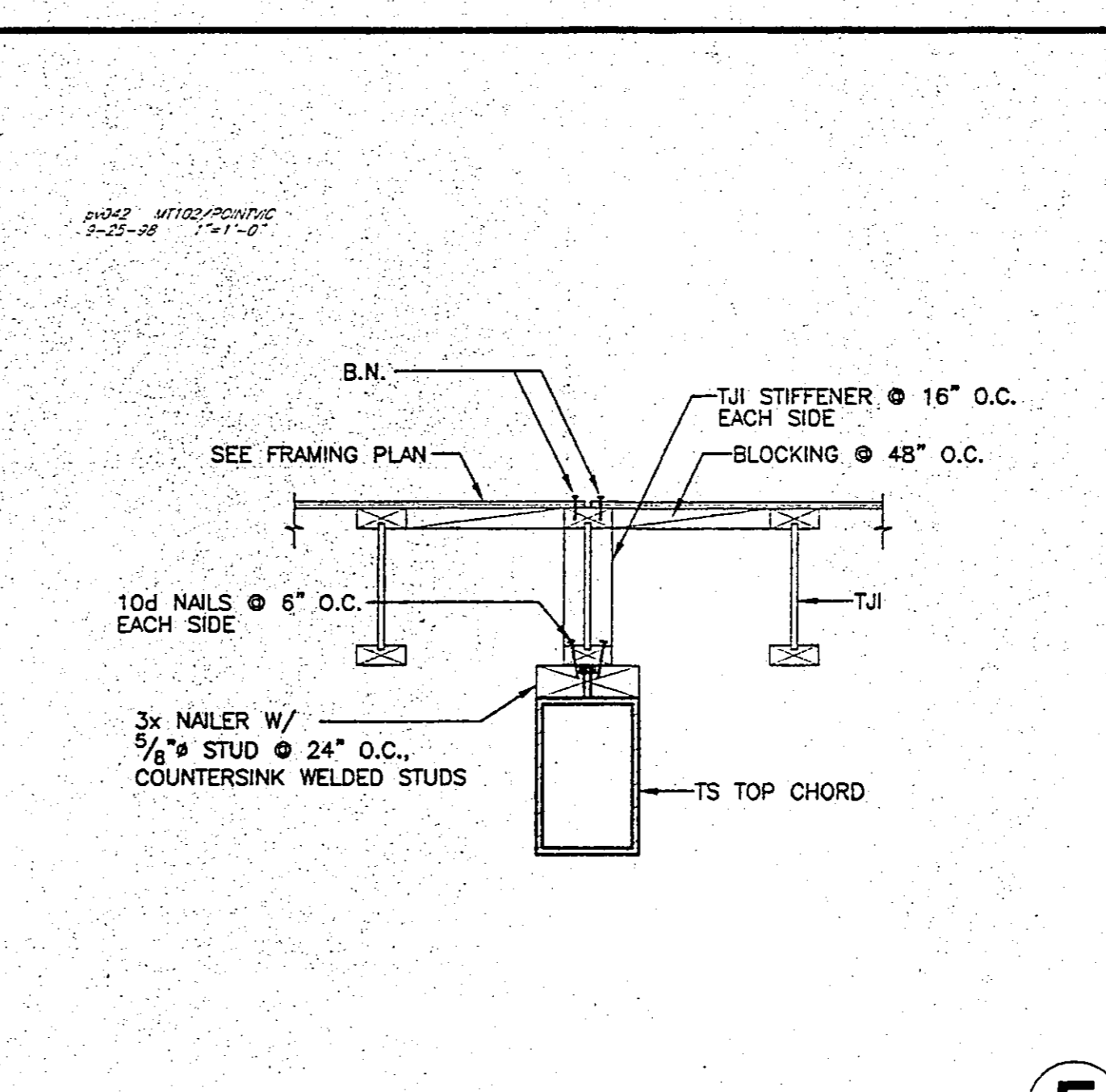
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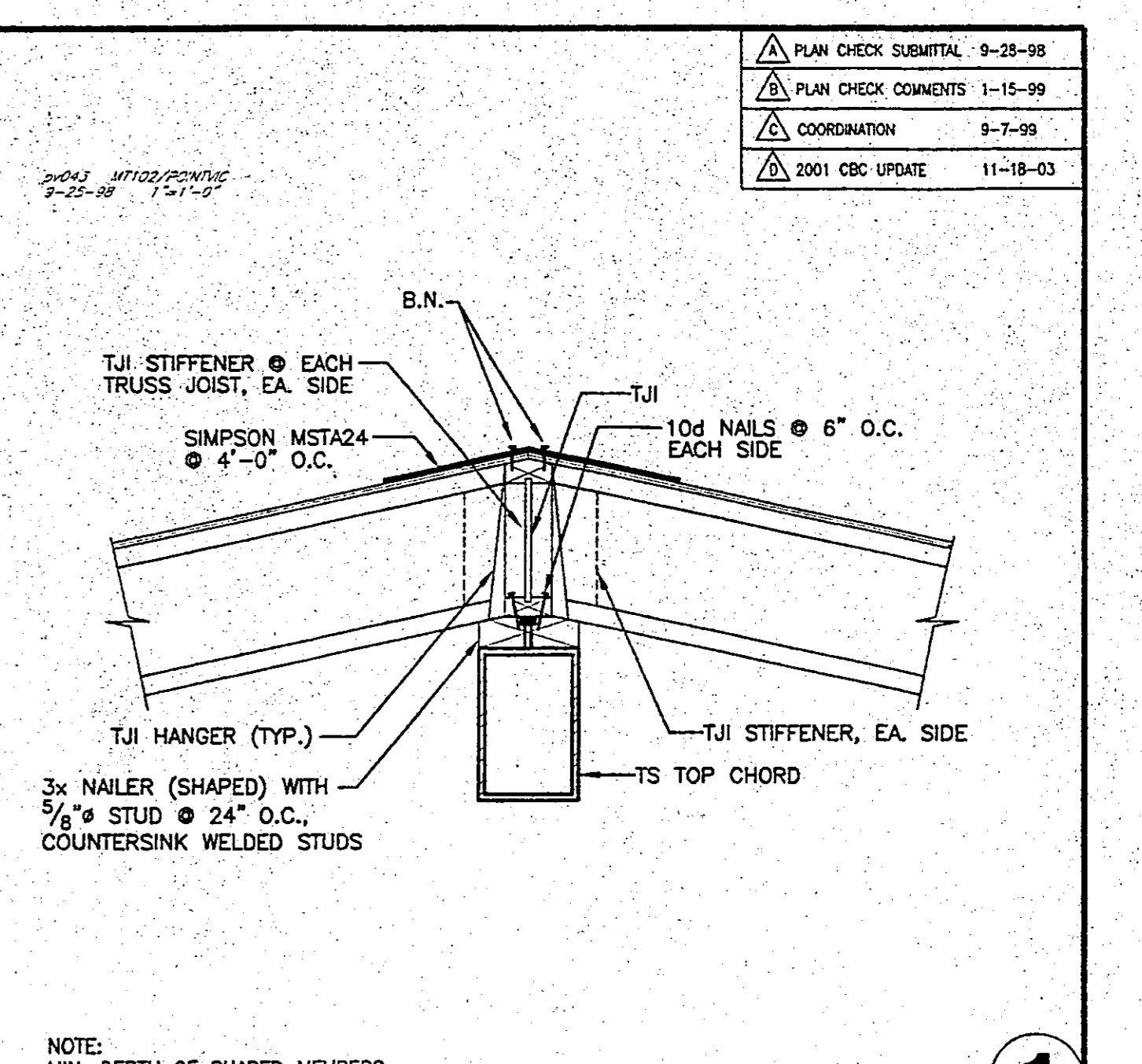
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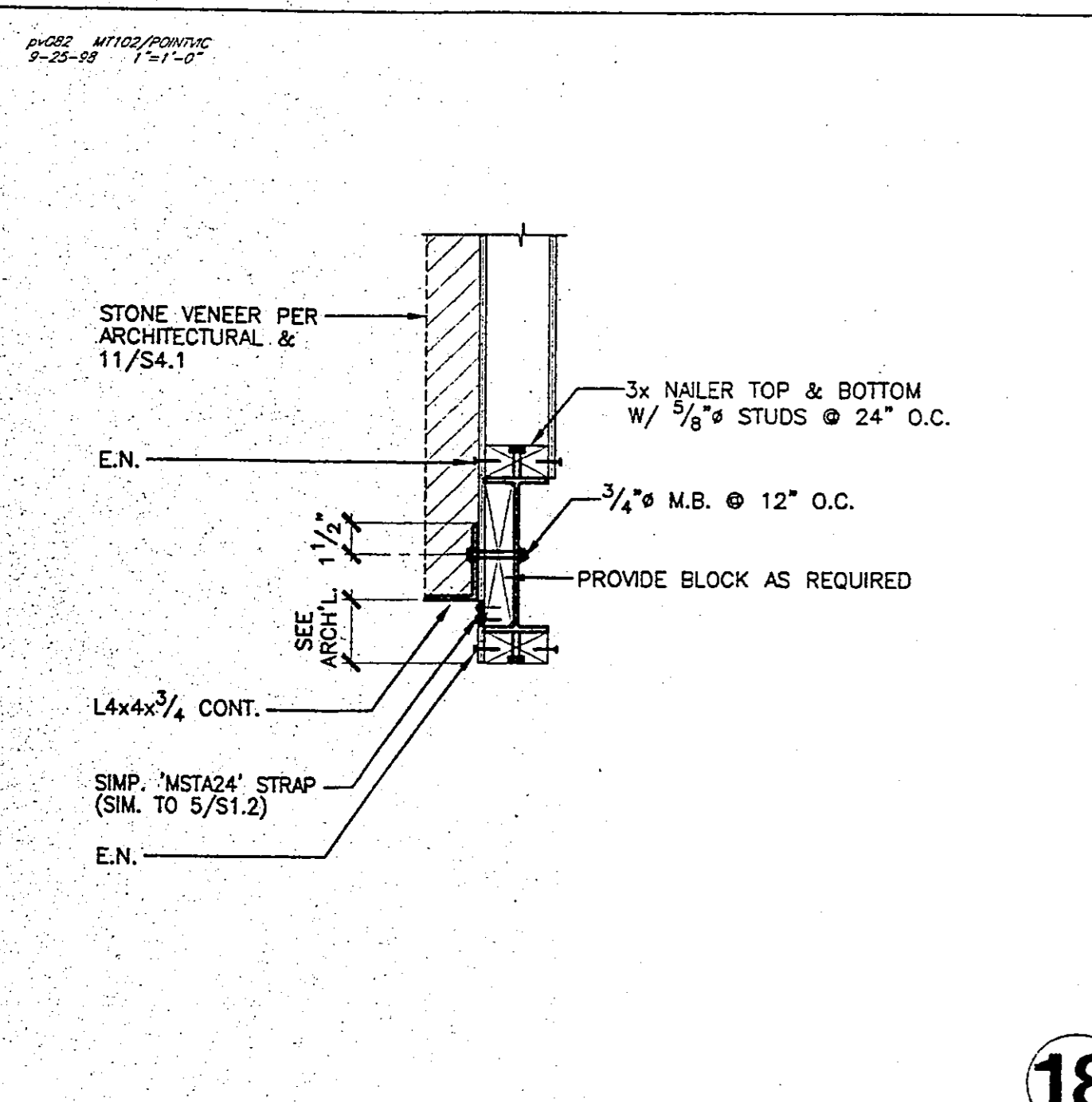
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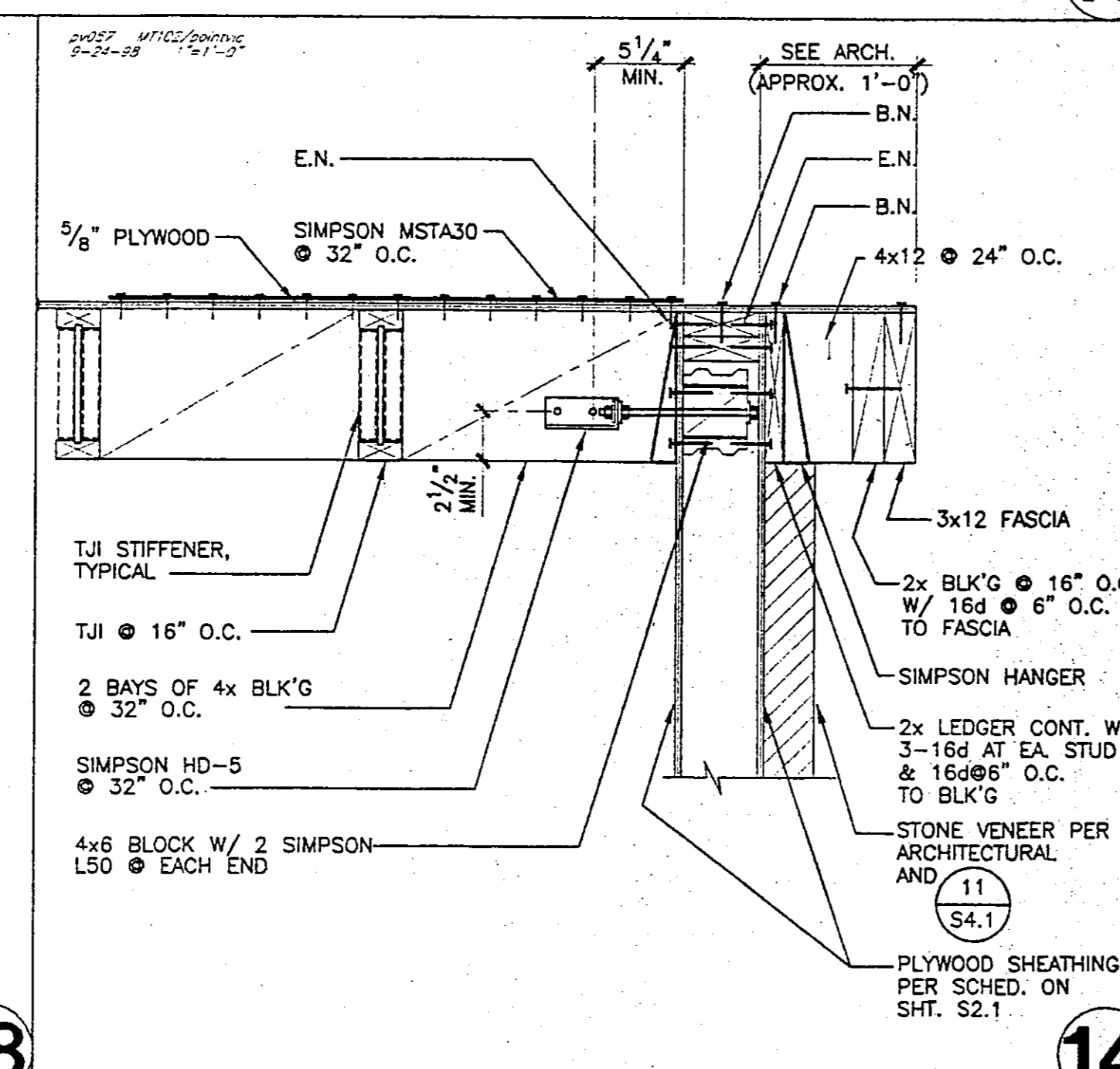
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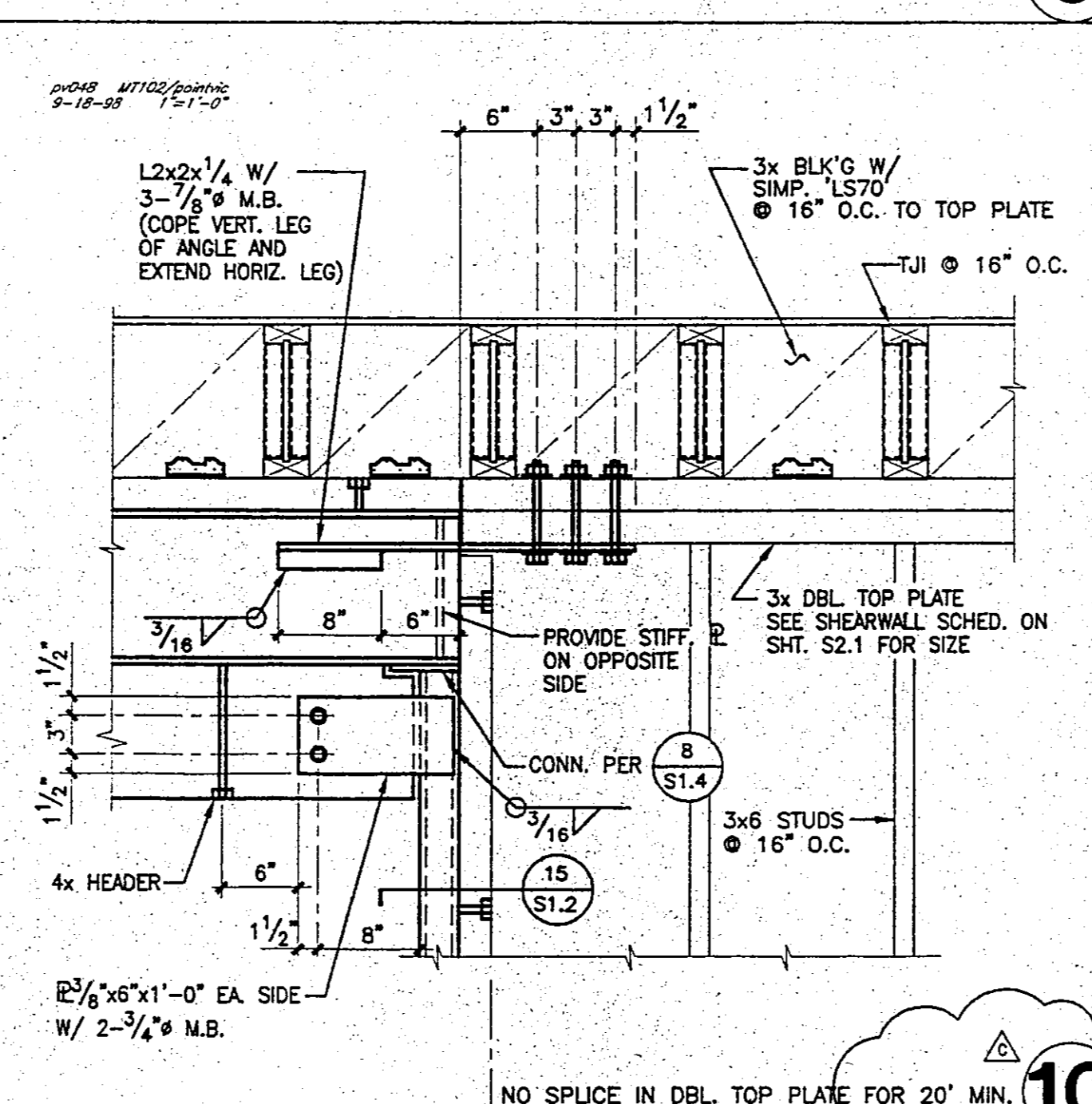
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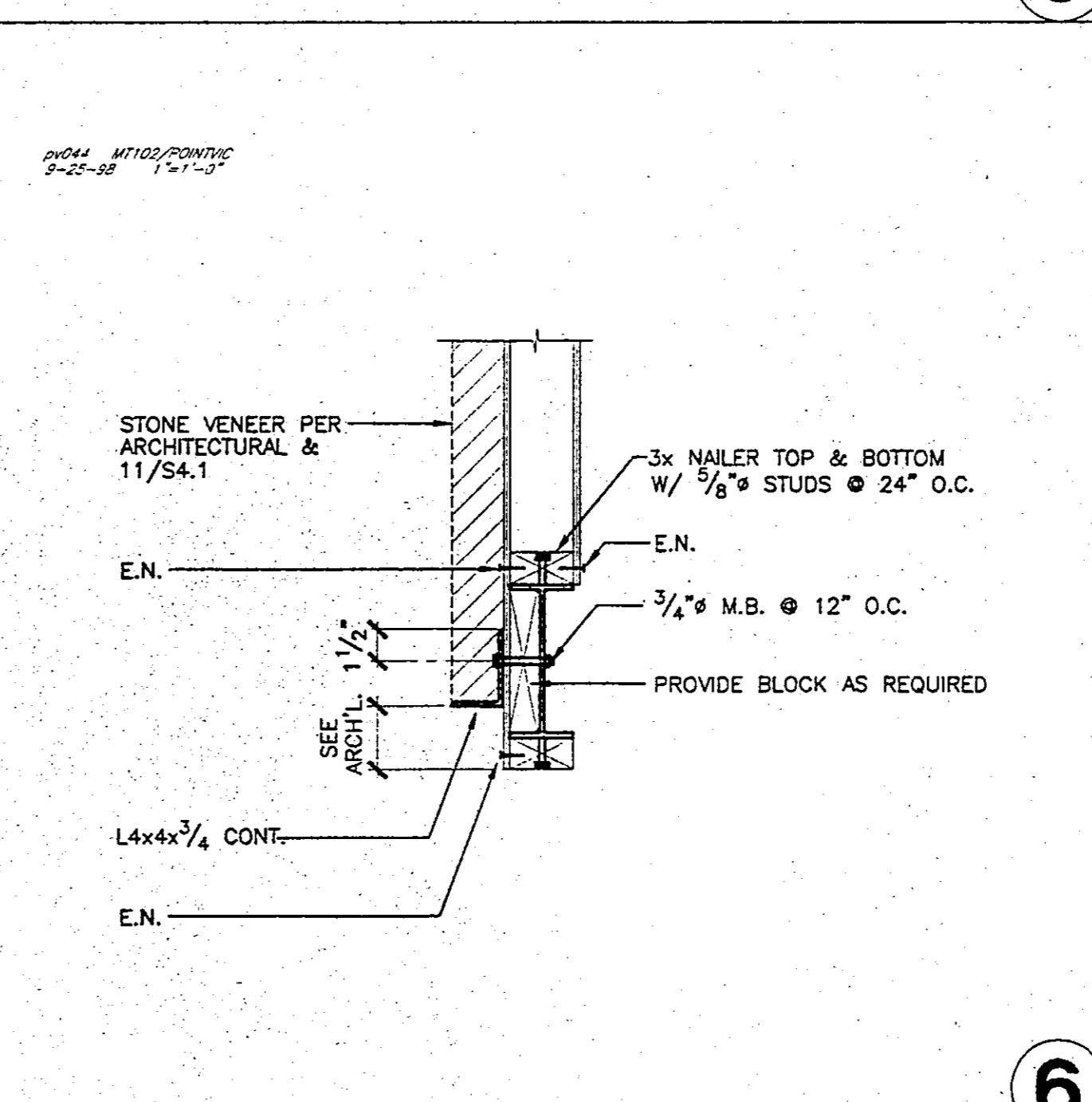
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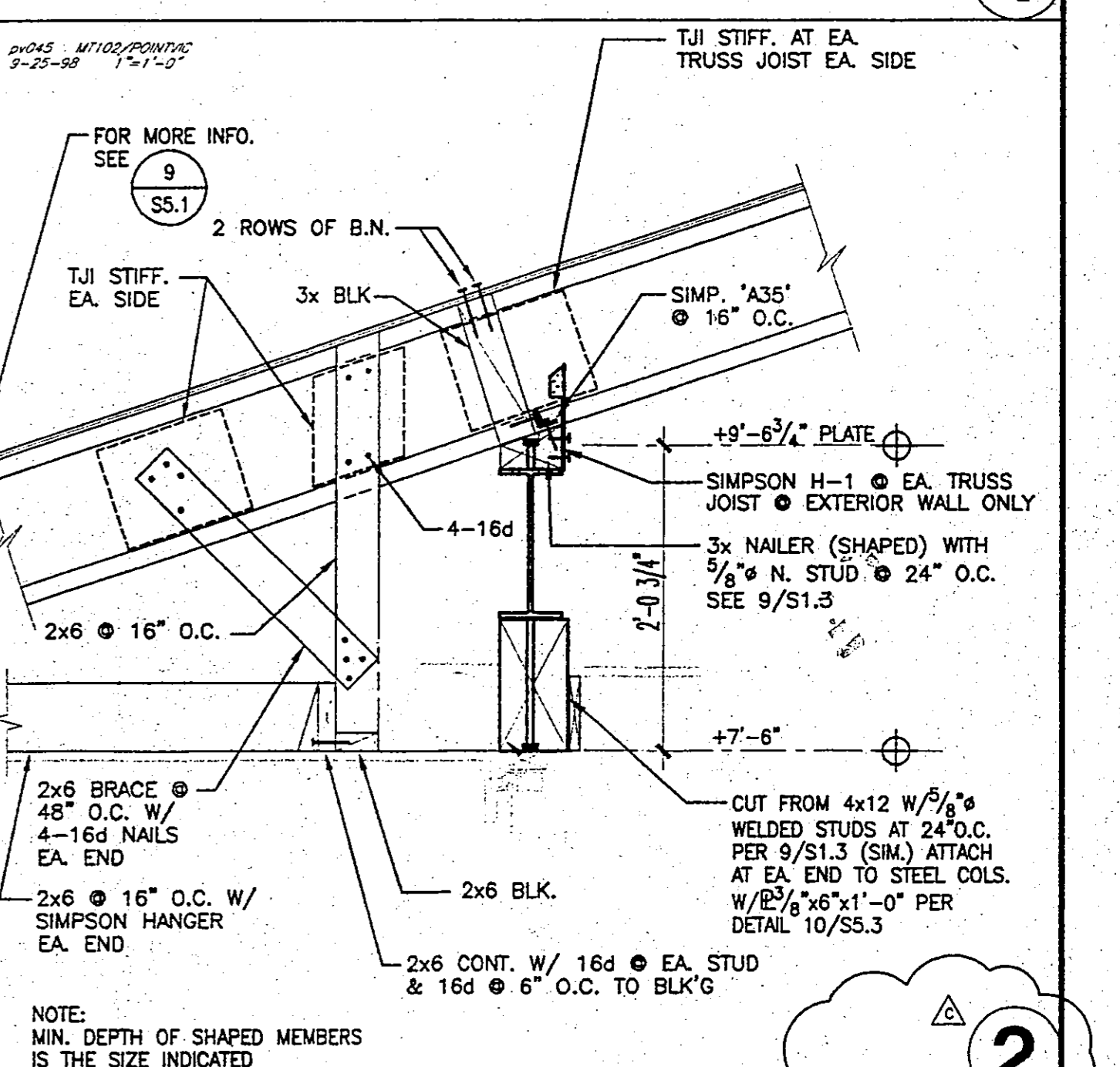
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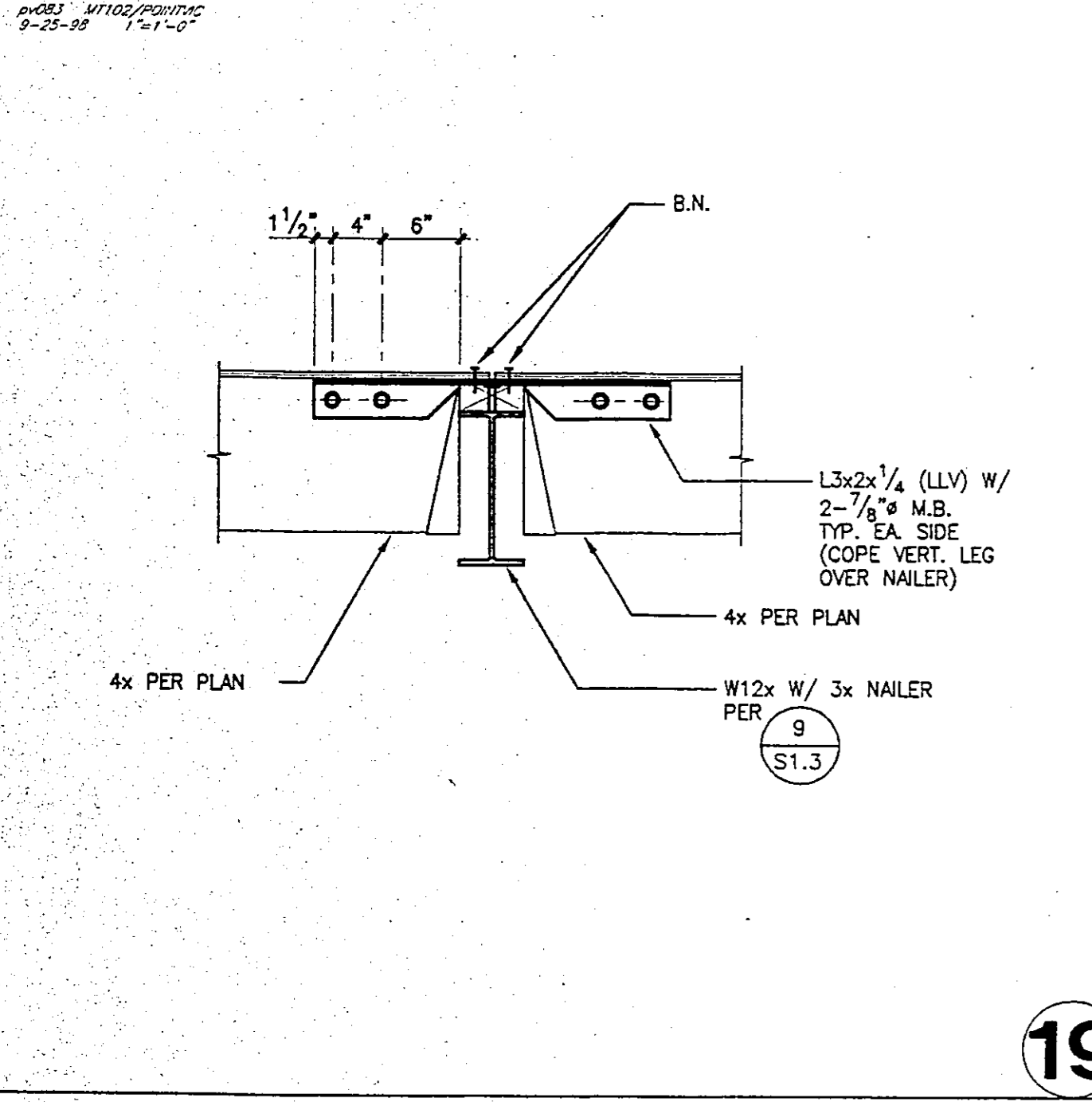
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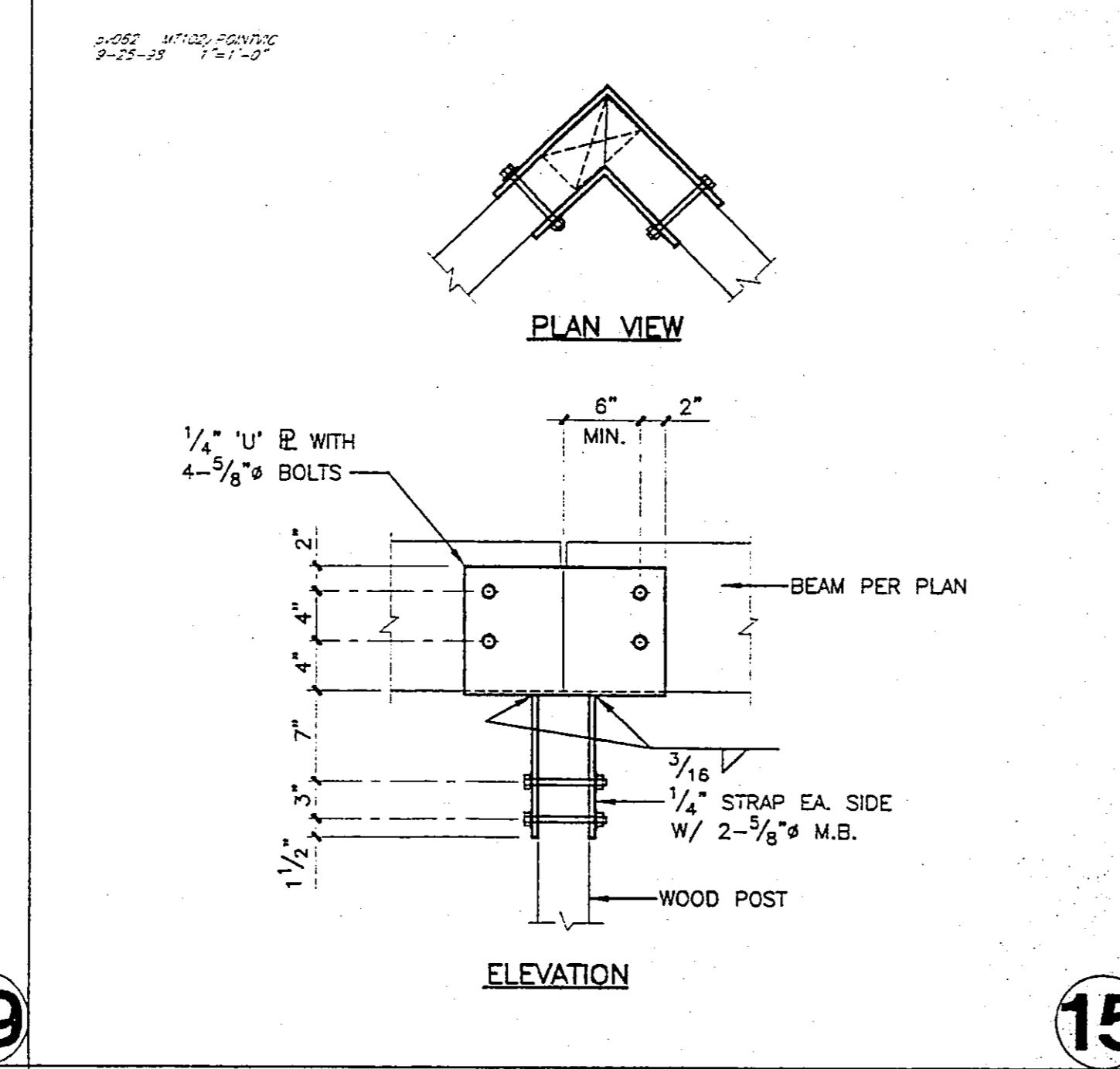
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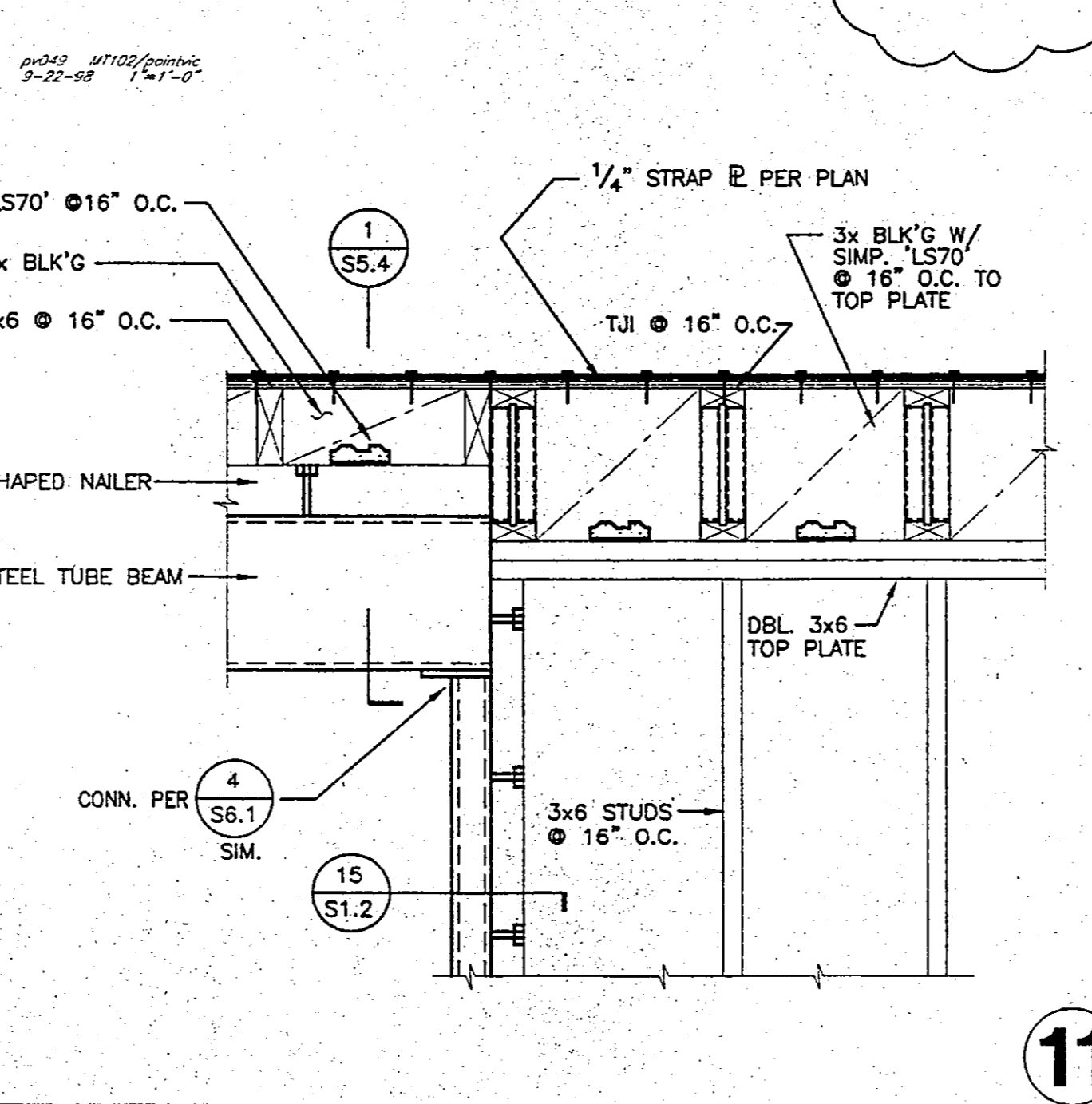
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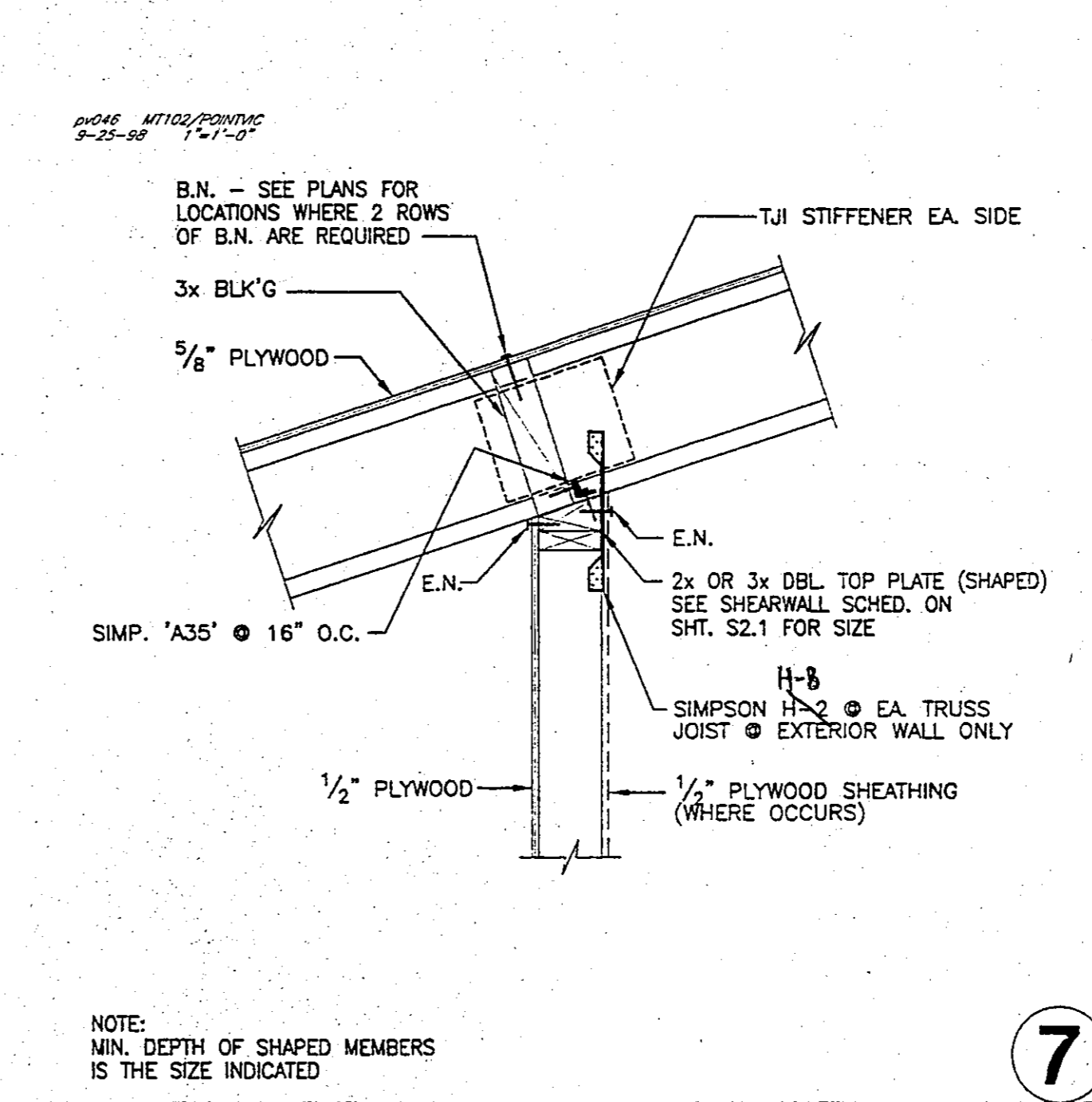
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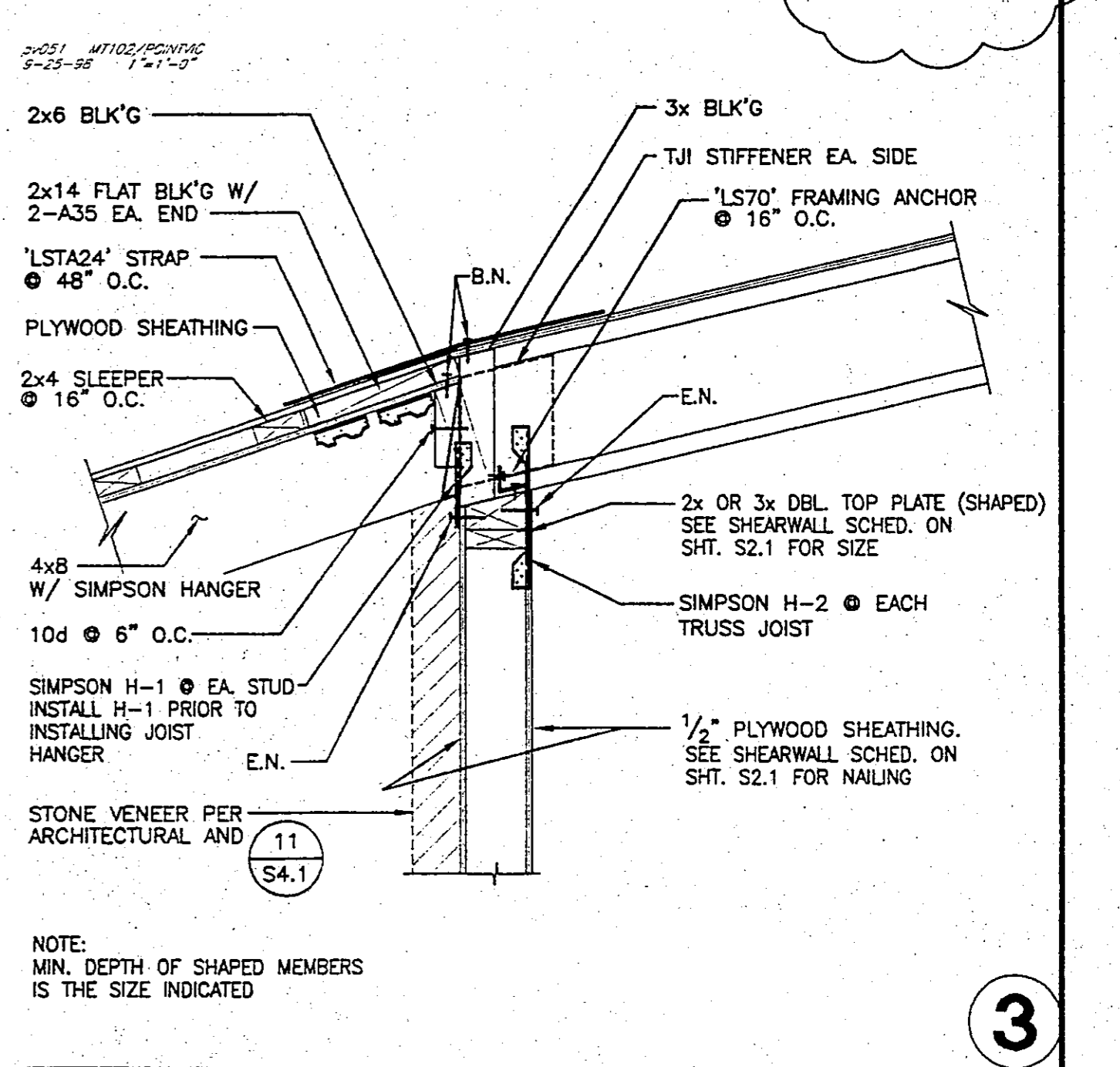
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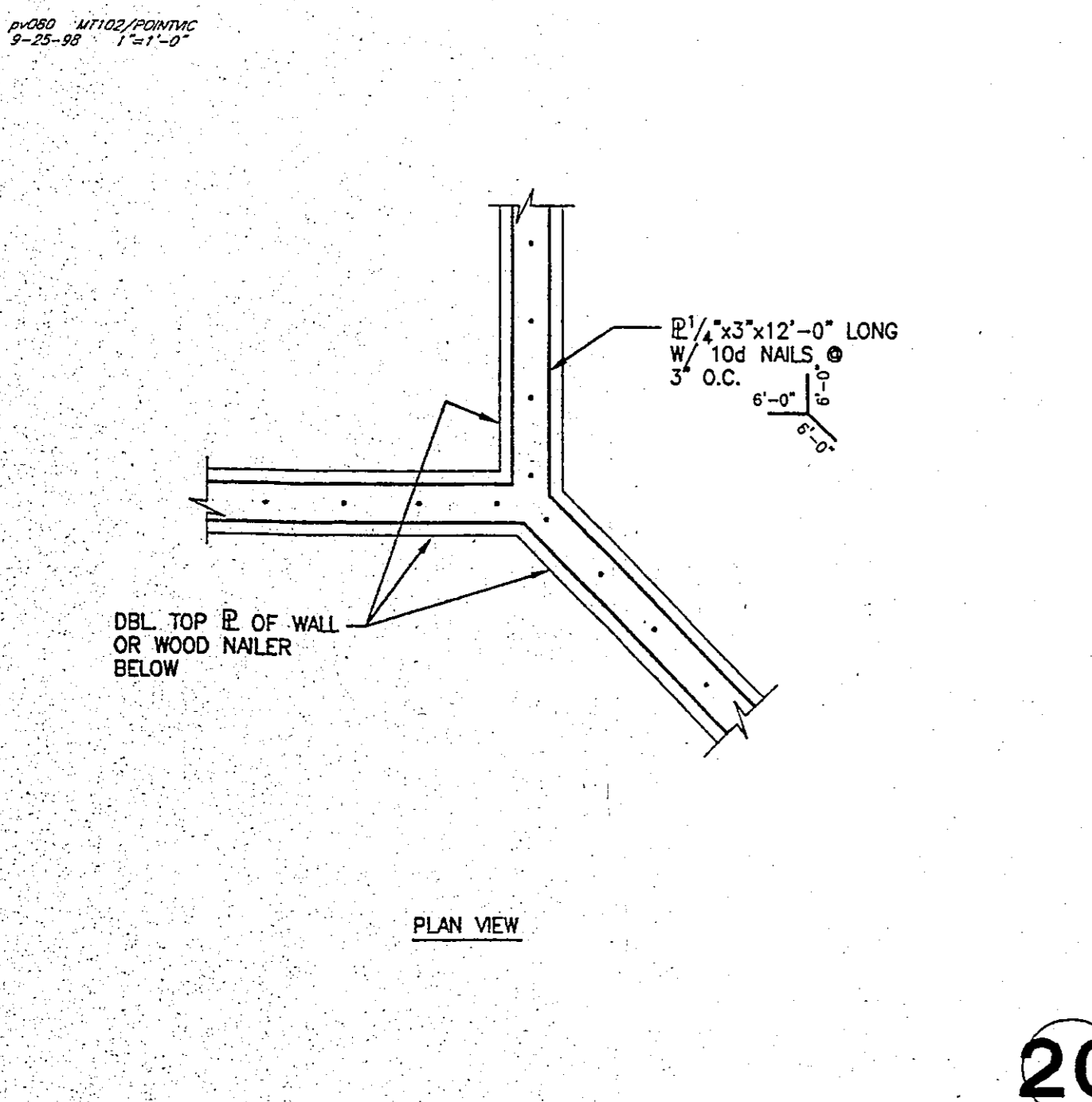
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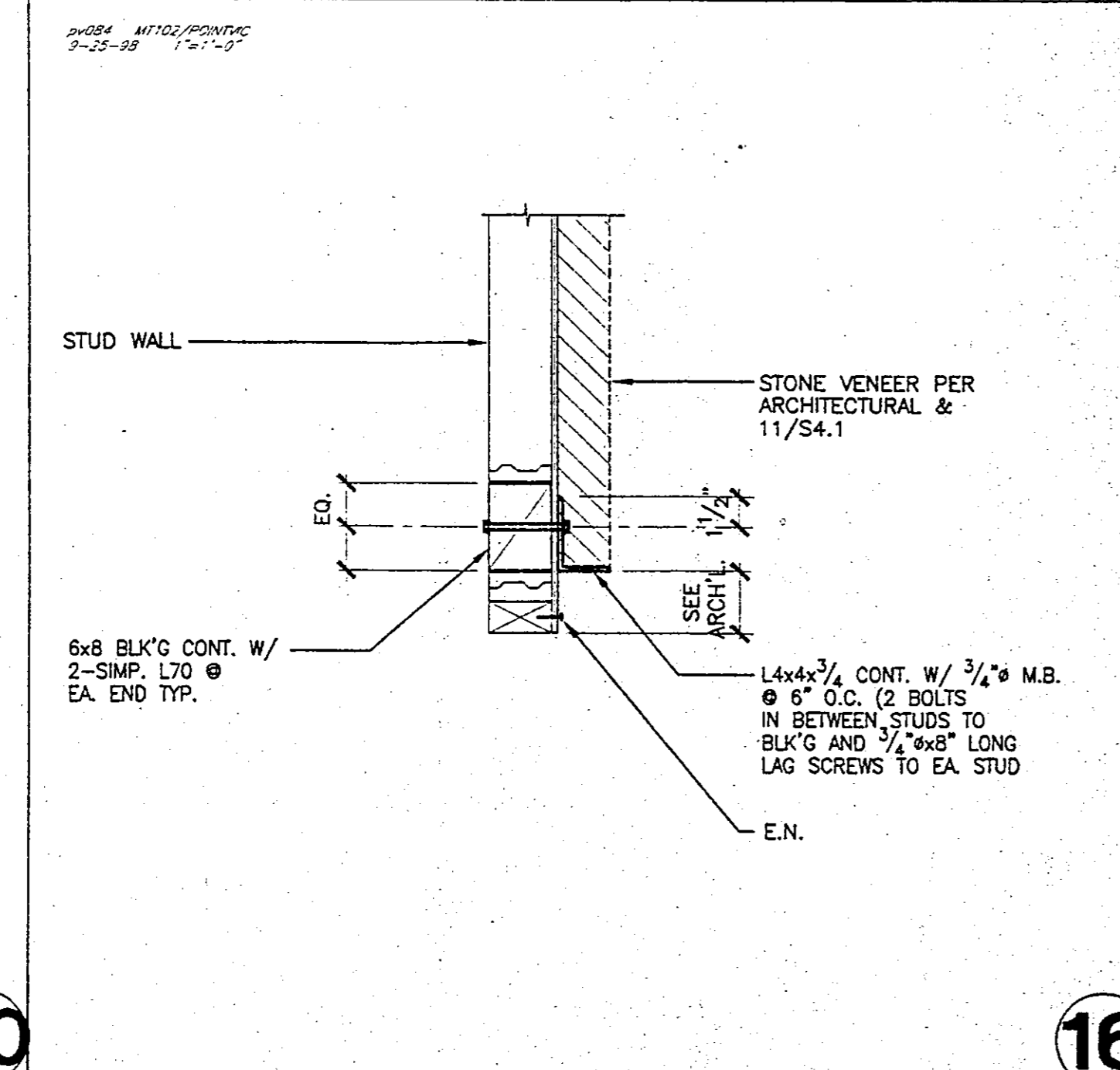
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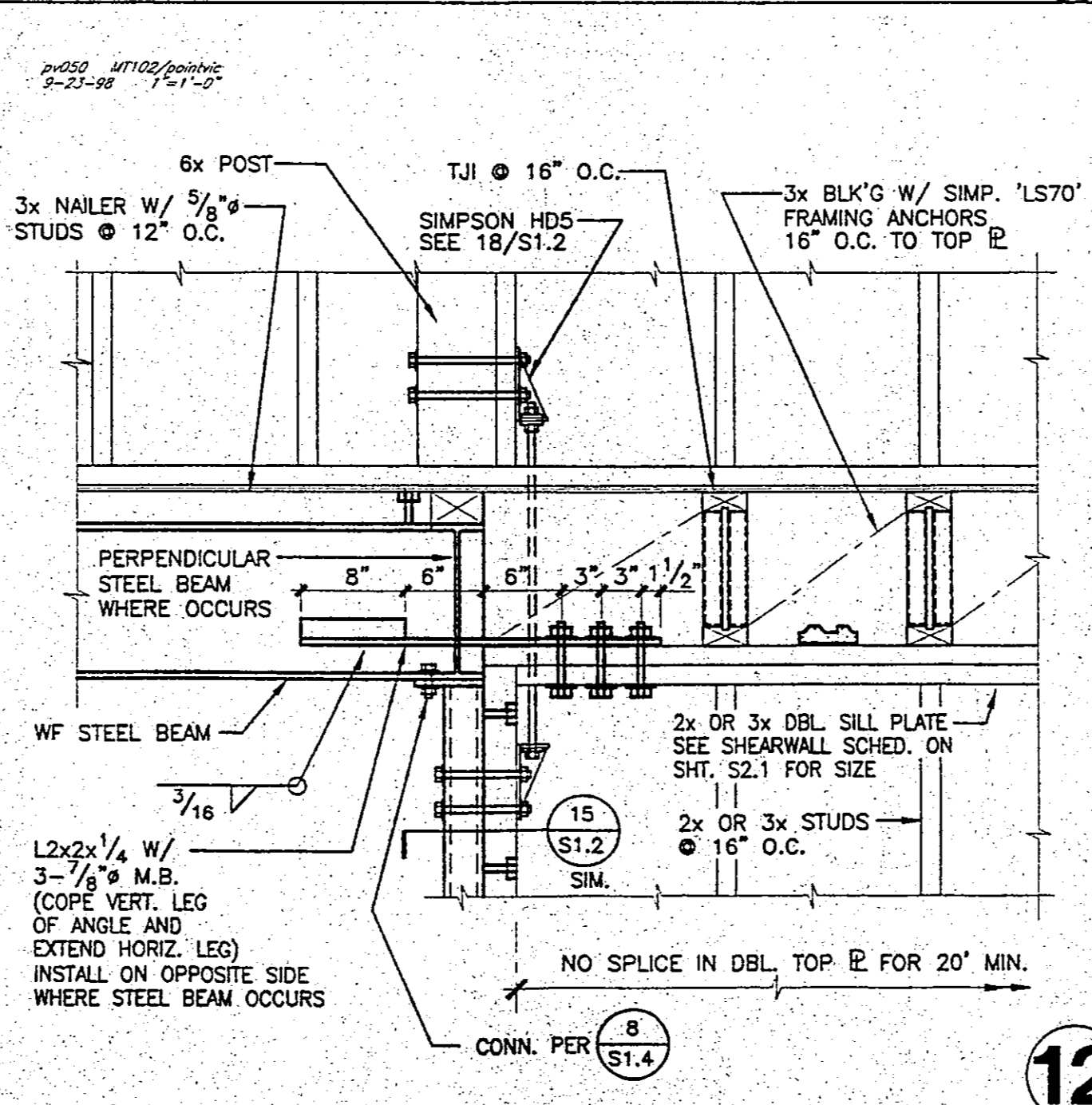
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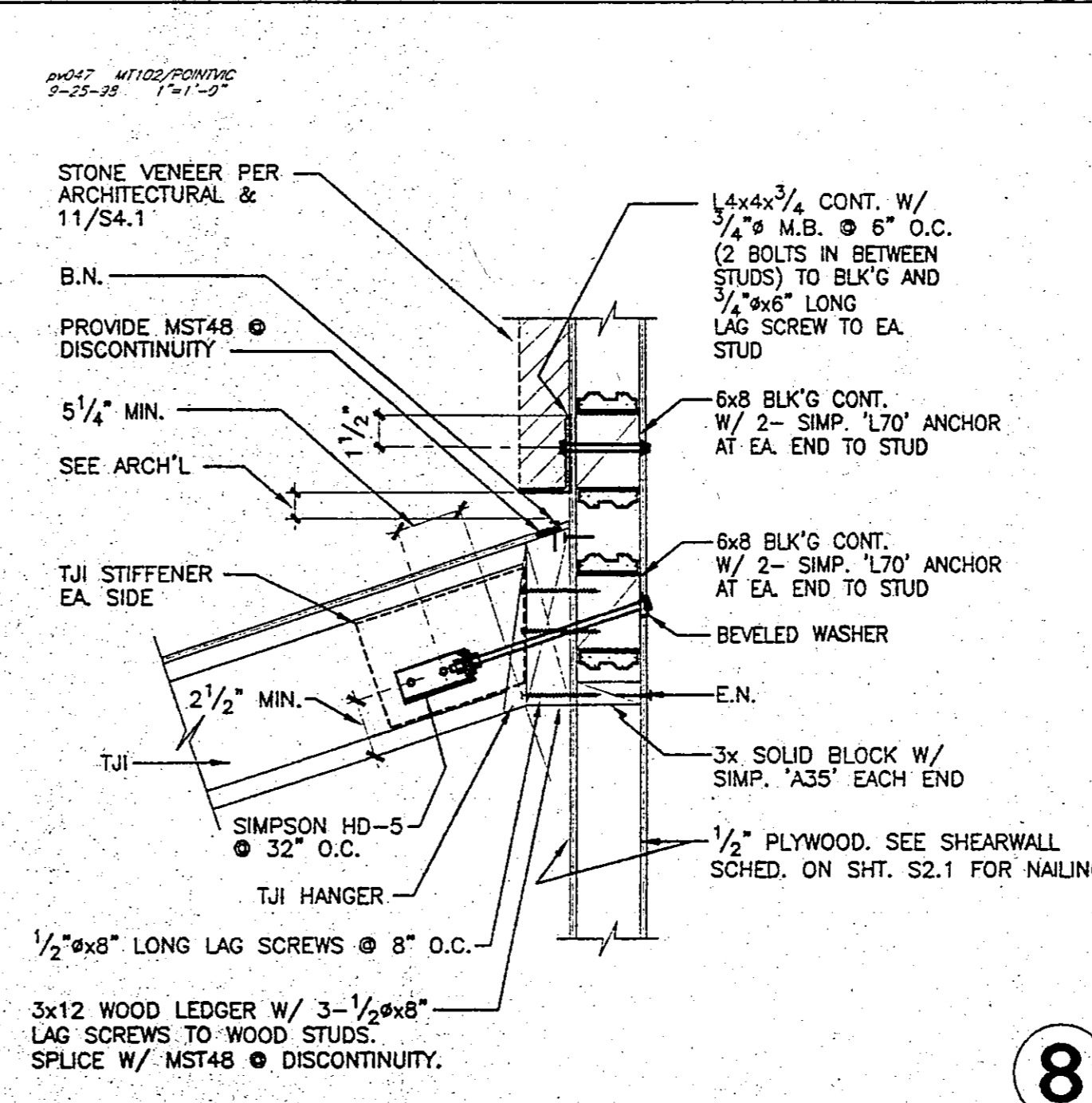
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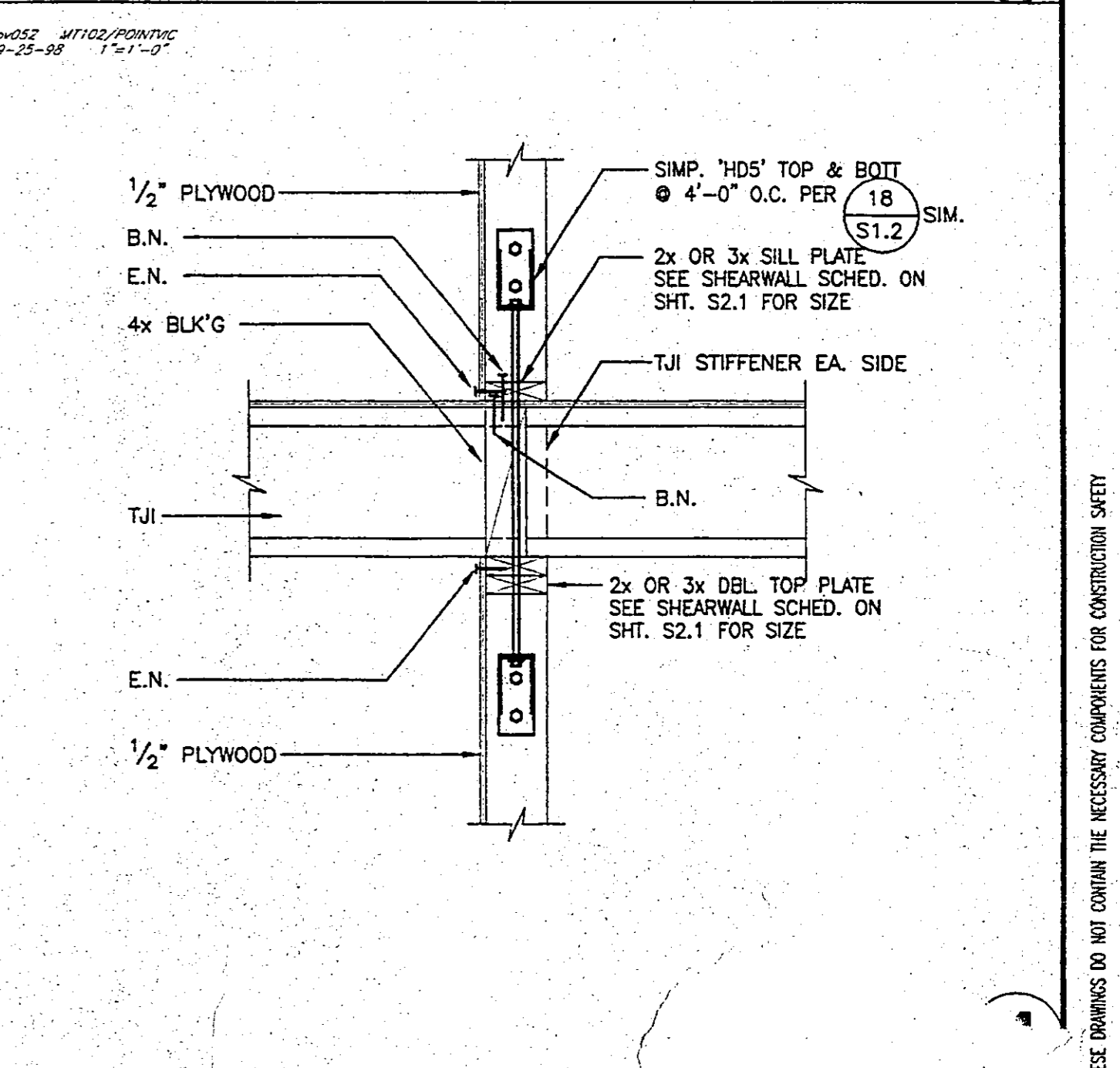
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12



8



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EXPIRES 12/31/05
STRUCTURAL
STATE OF CALIFORNIA

ABS Consulting
EOE Structural Engineers Division
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Folsom, CA 95630
Phone: (707) 754-4242
Fax: (707) 754-4272

POINT VICENTE INTERPRETIVE CENTER EXPANSION
3150 N. Paloma Verdes Drive, West
Rancho Palms Verdes, CA

ROOF FRAMING DETAILS

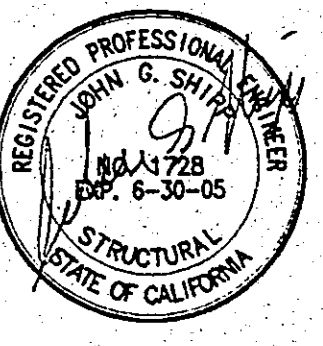
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CHECKED
DATE
JOB NO.
SHEET
S5.3
50 OF 69 SHEETS

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PLAN CHECK COMMENTS	1-15-99
COORDINATION	9-7-99
2001 CBC UPDATE	11-18-03

RON YEO, FAIA ARCHITECT, INC.
 500 JASMINE AVENUE, CORONA DEL MAR
 CALIFORNIA 92625 P949-644-8111 F949-644-0449
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT



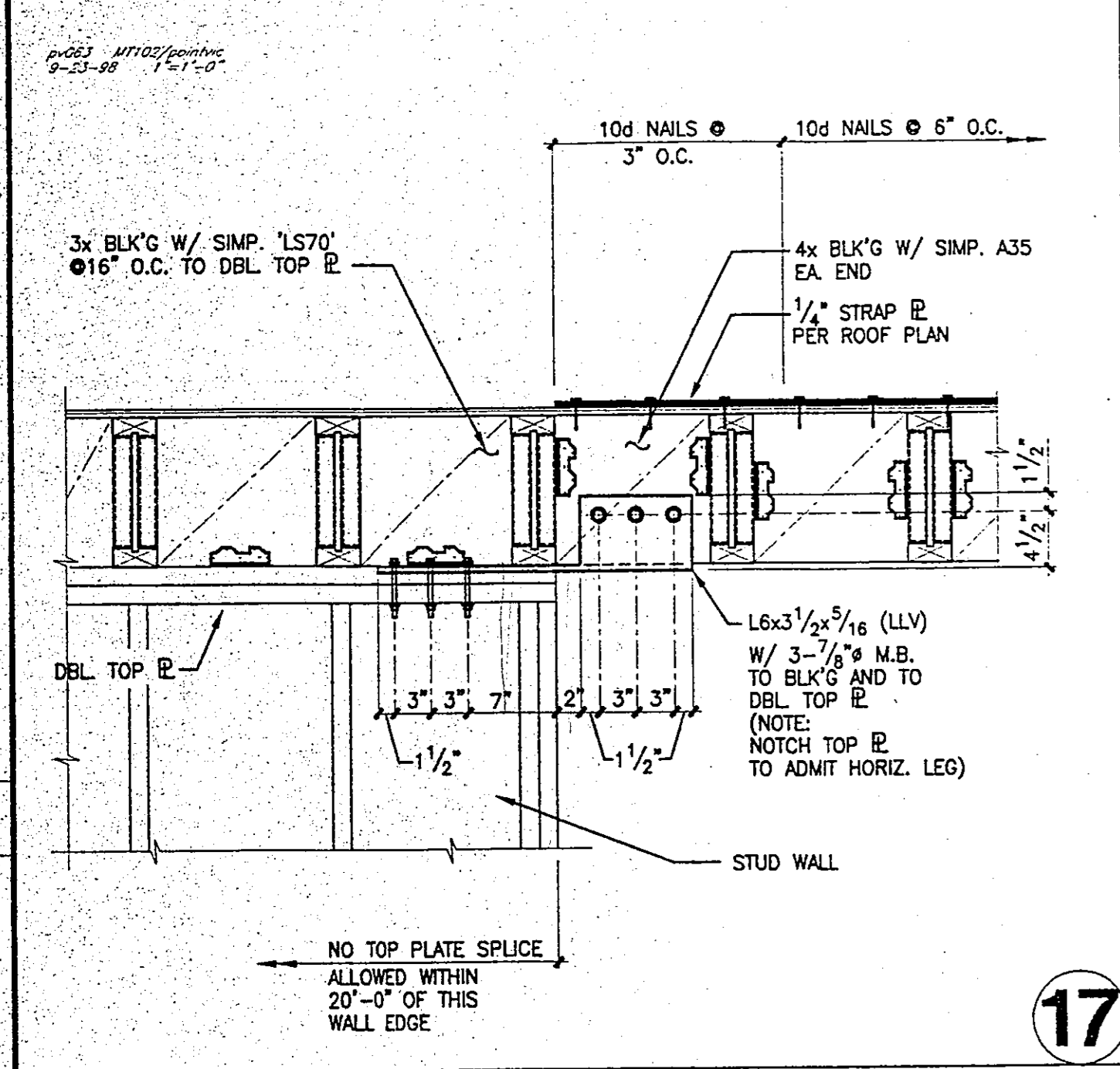
ABS Consulting
 EOE Structural Engineers Division
 800 Corporate Drive, Suite 300
 Irvine, Calif. 92602-3300 USA
 Phone (714) 754-4242
 Fax (714) 754-4272

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31500 Via Arroyo Verde West
 Rancho Palms Verdes, CA

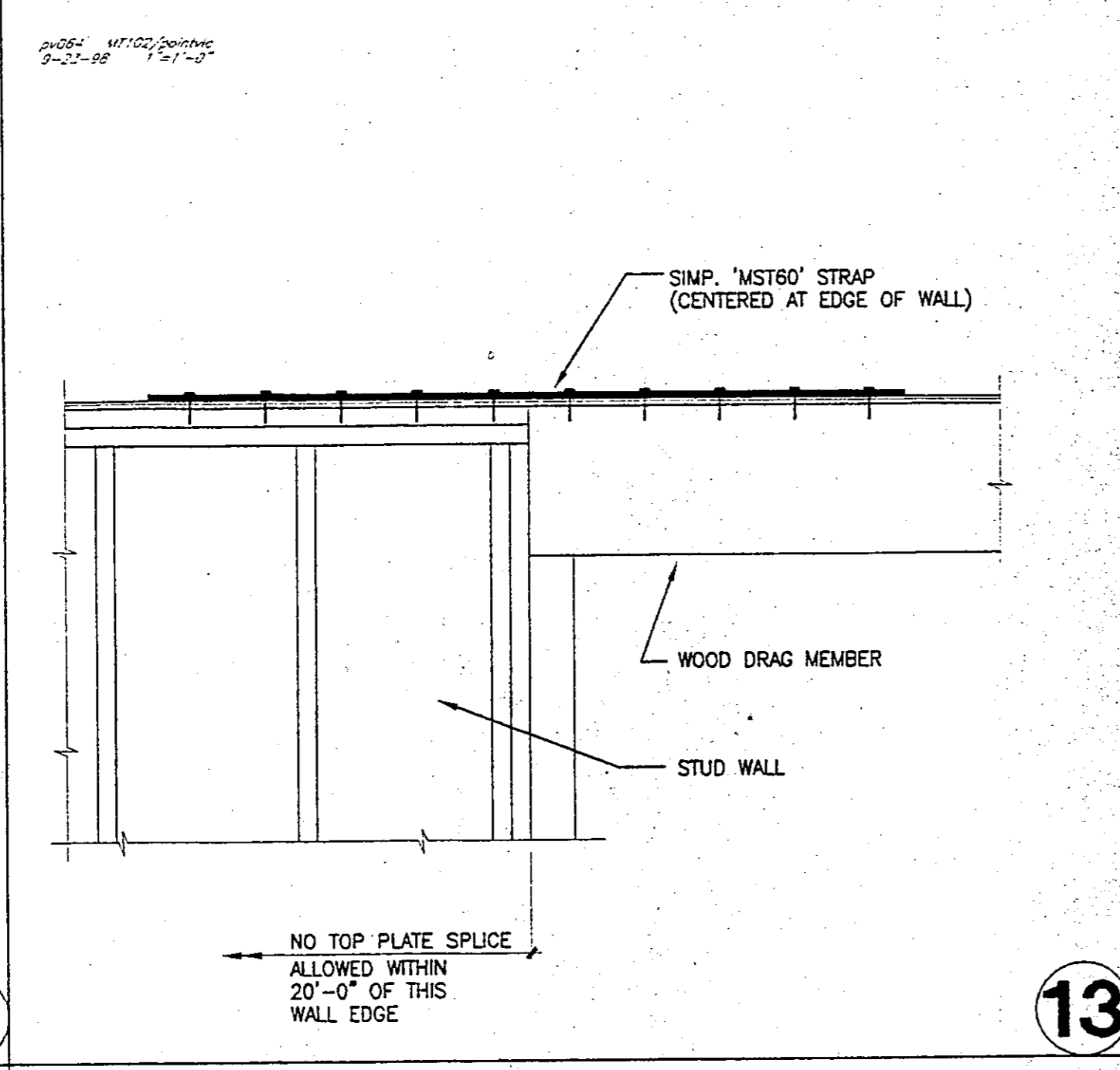
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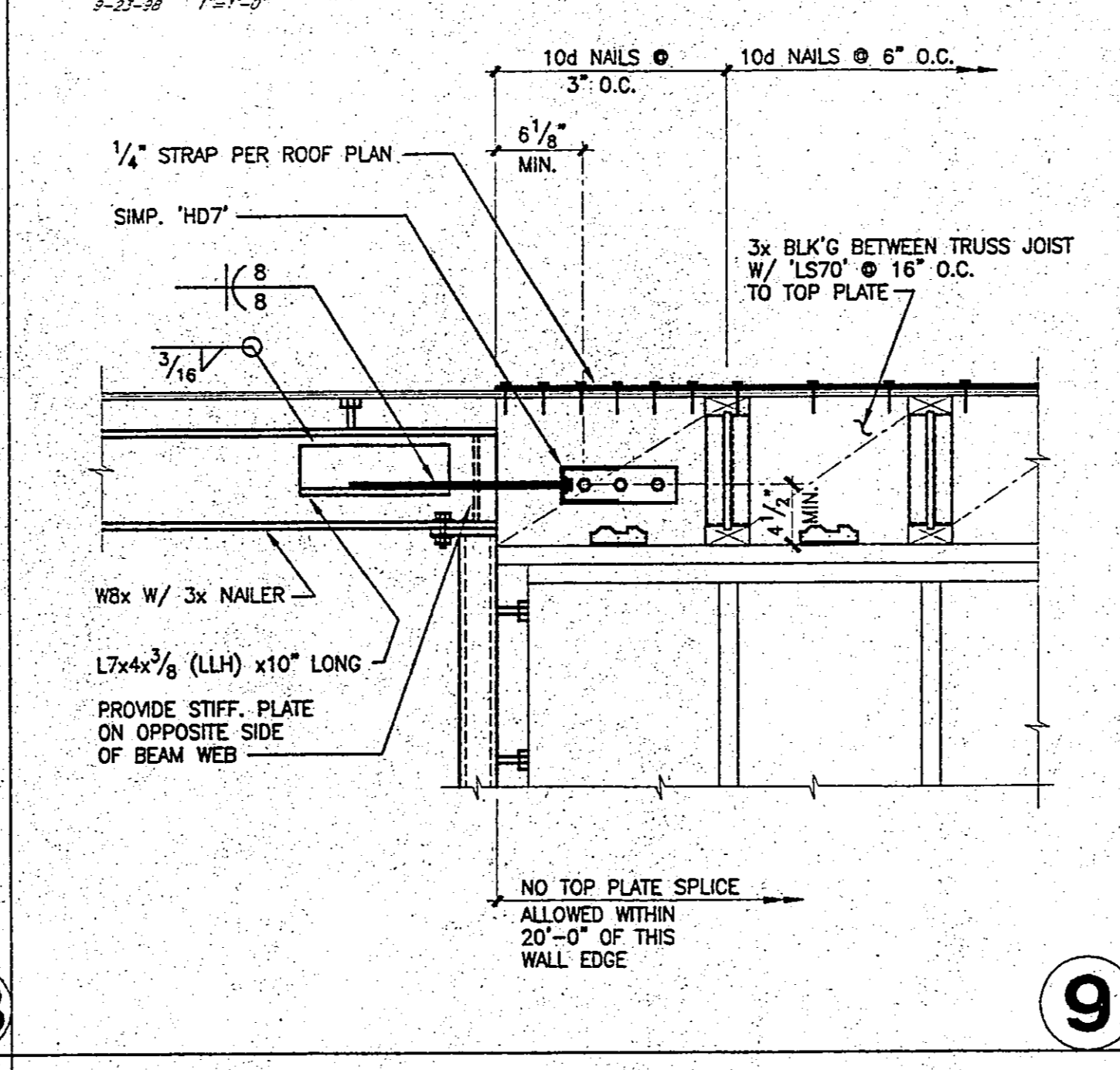
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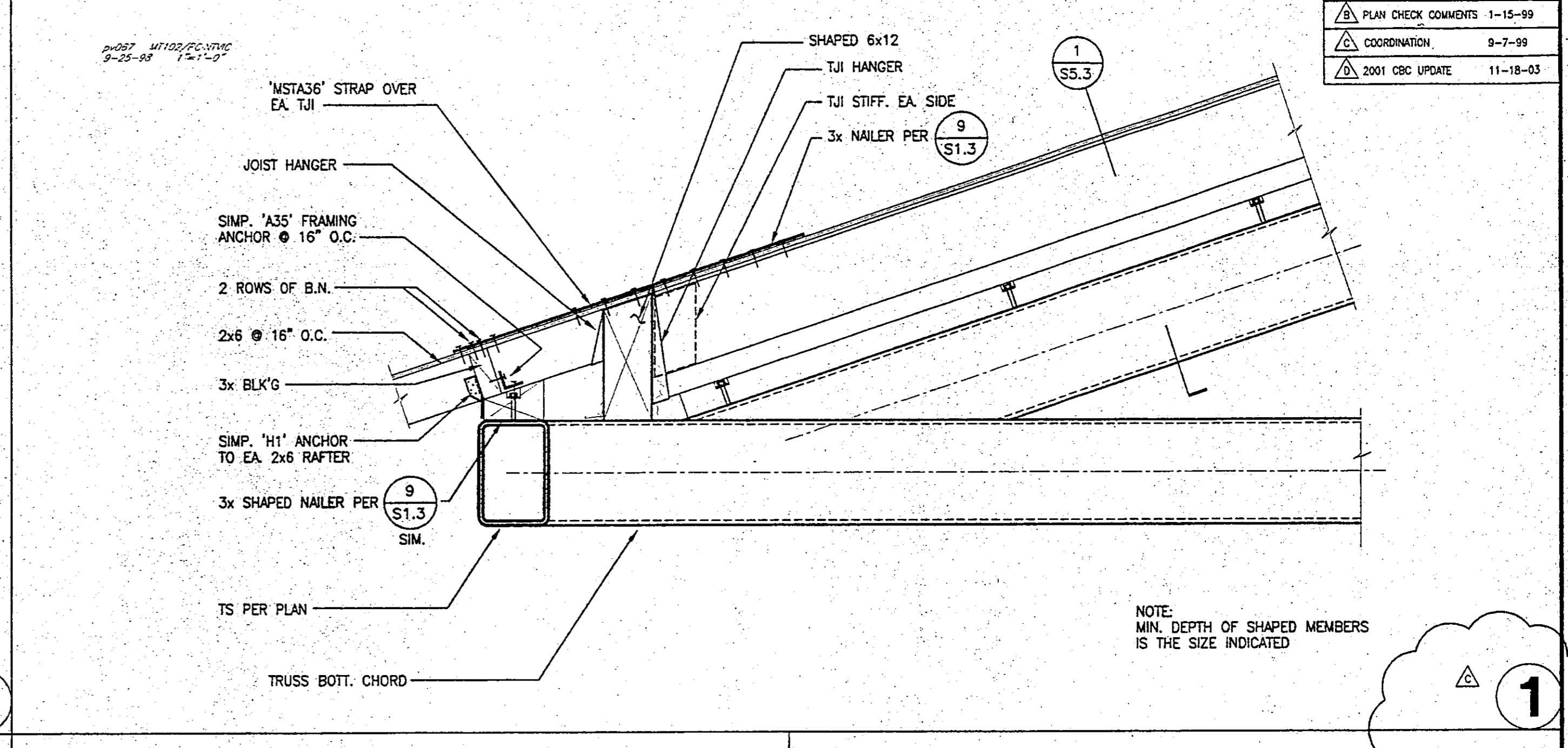
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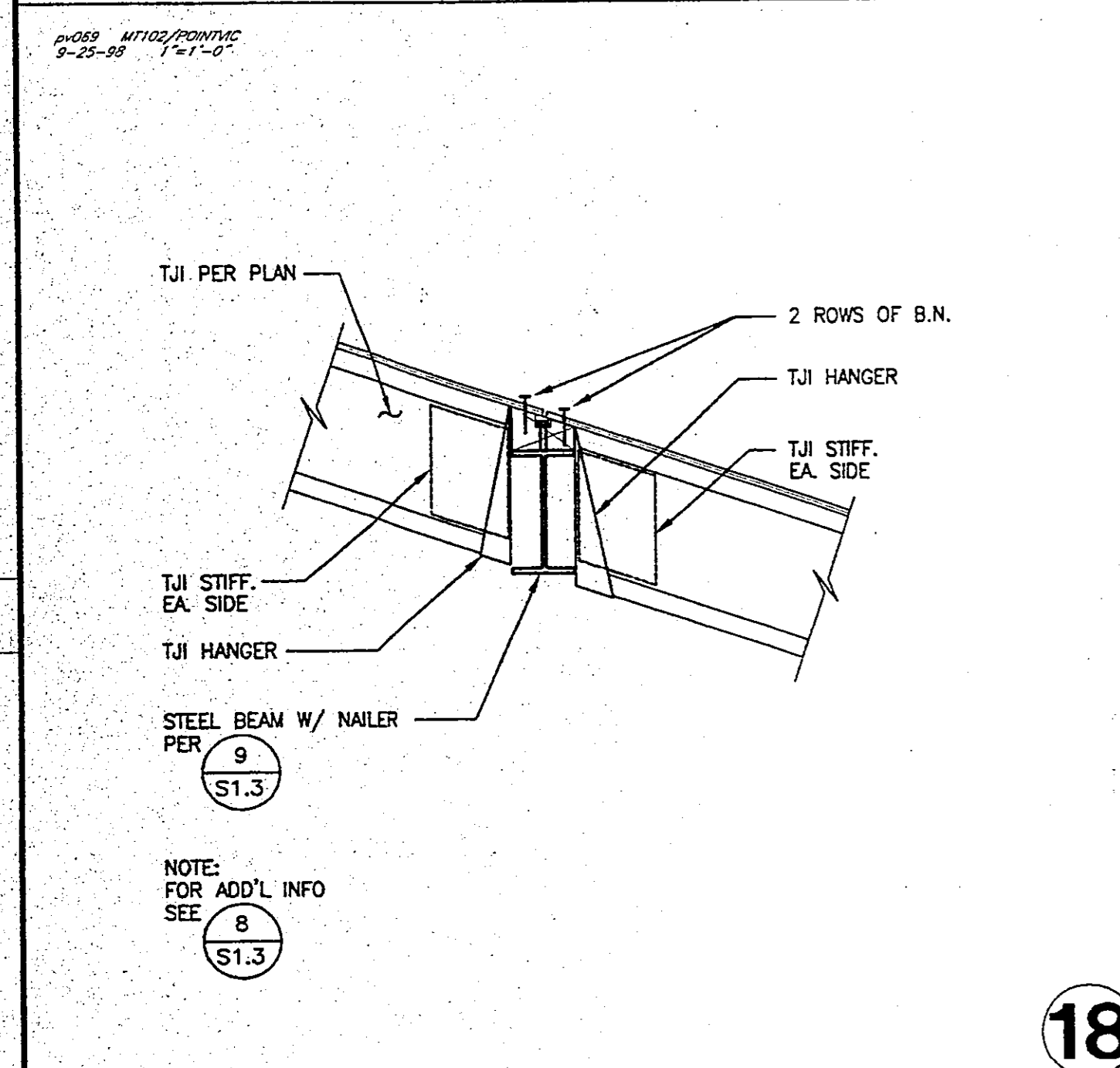
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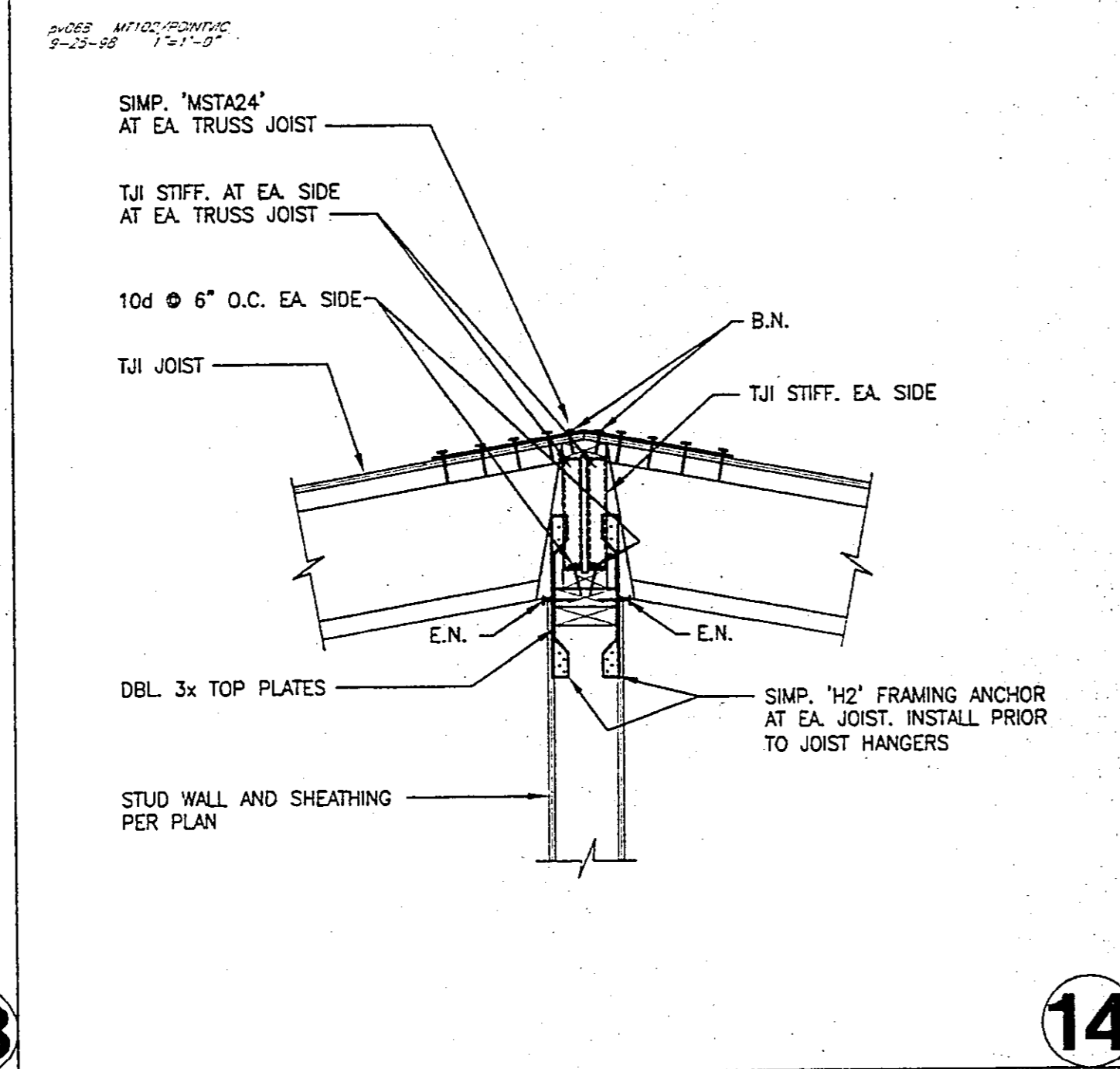
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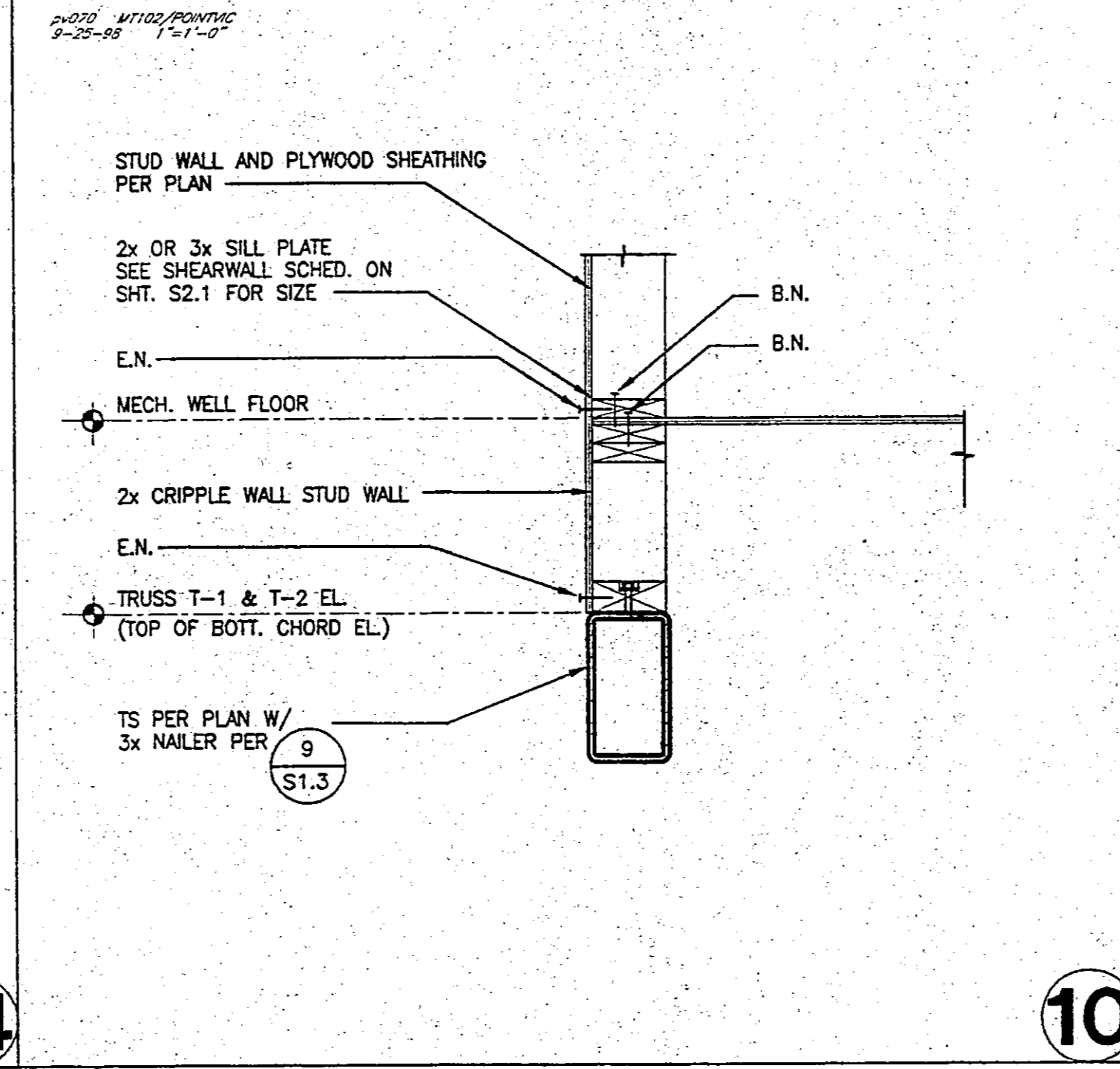
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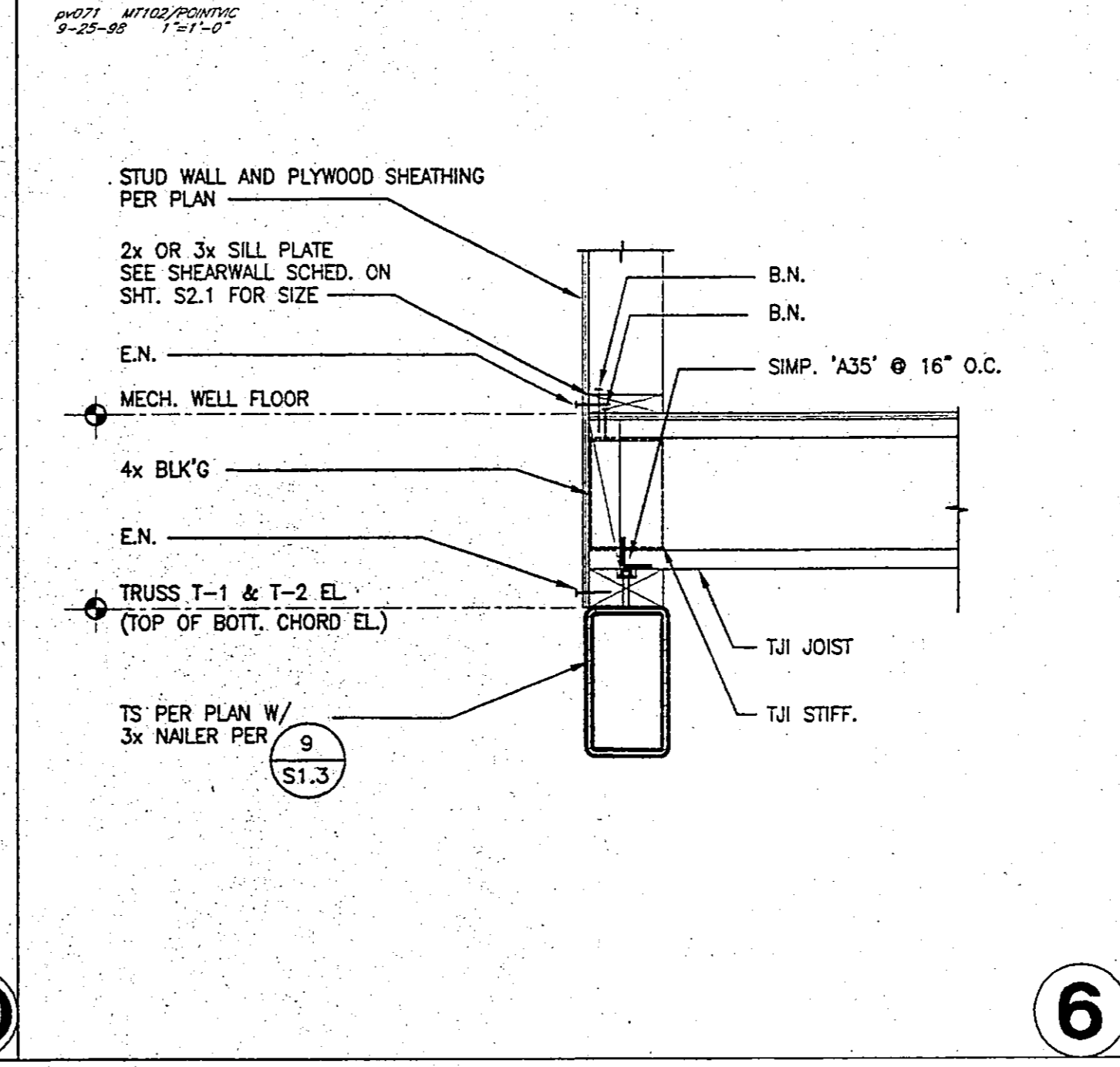
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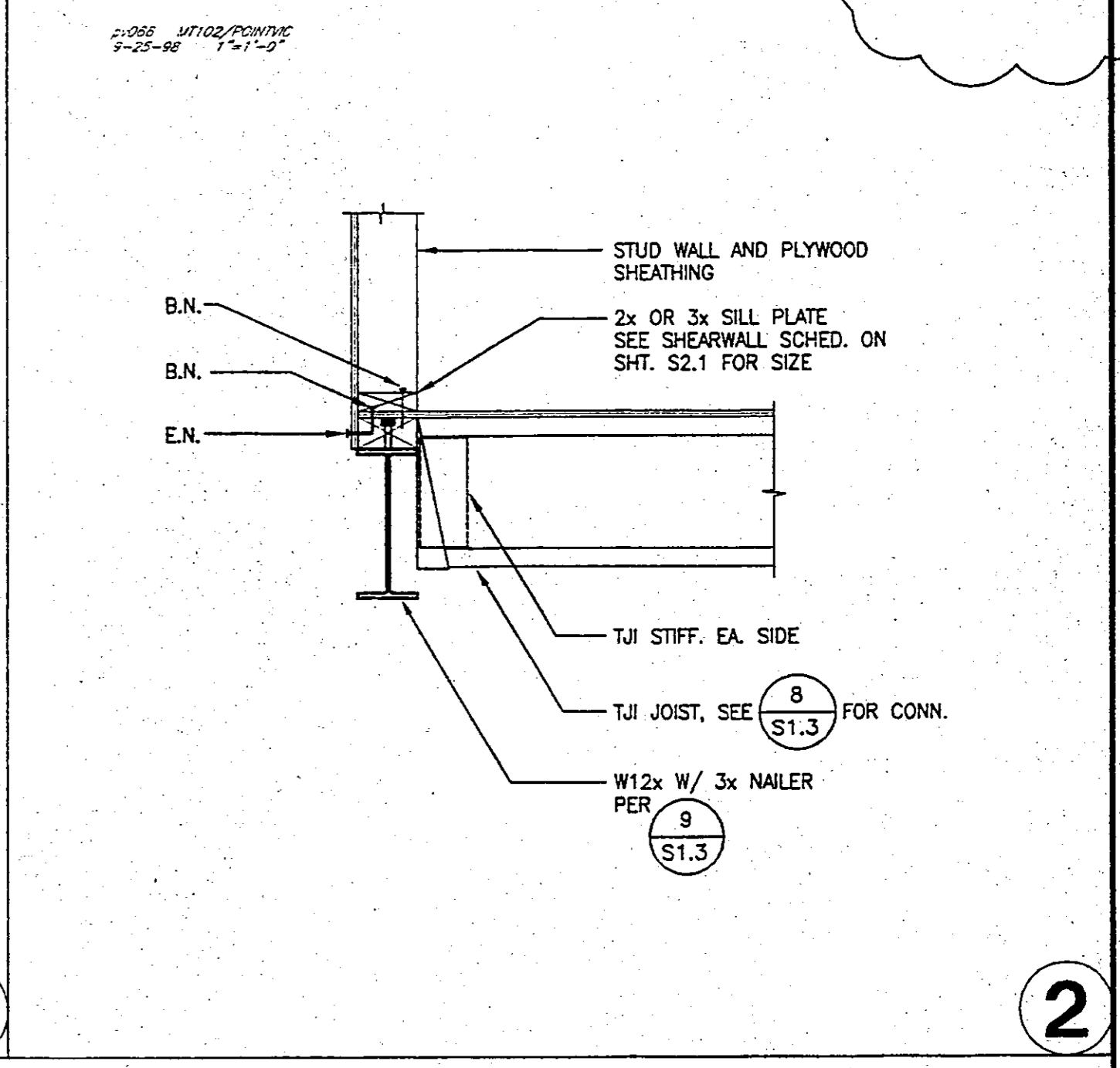
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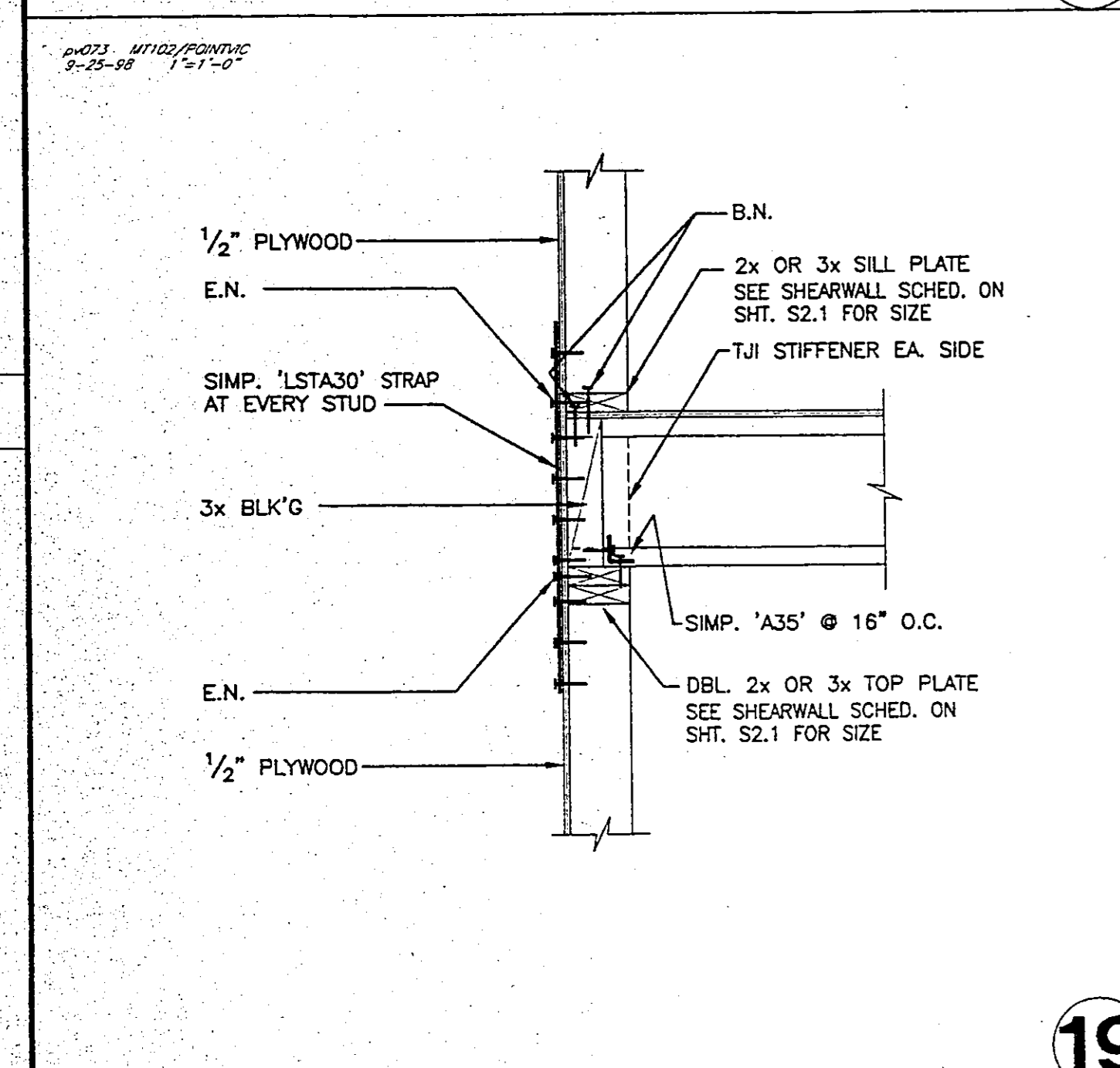
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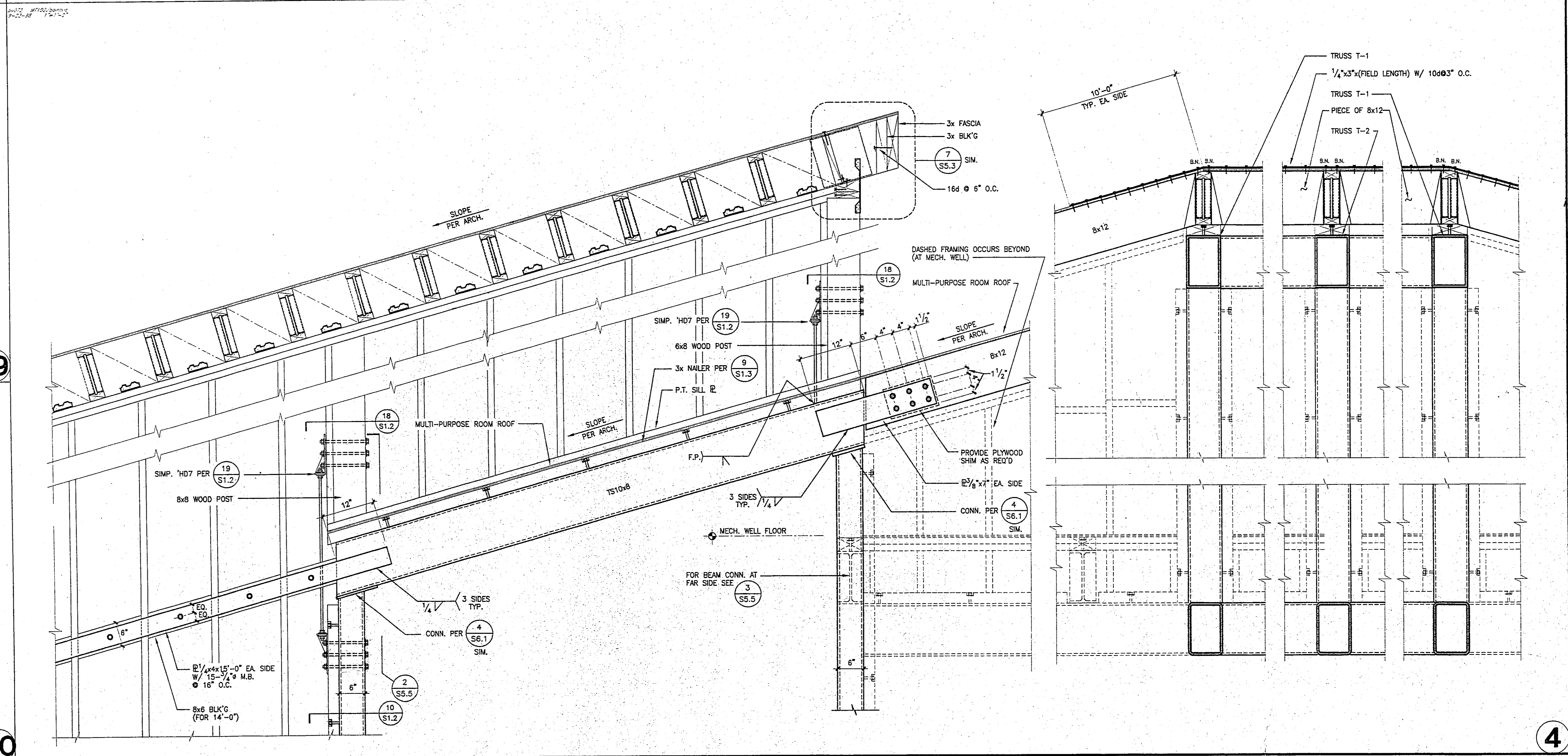
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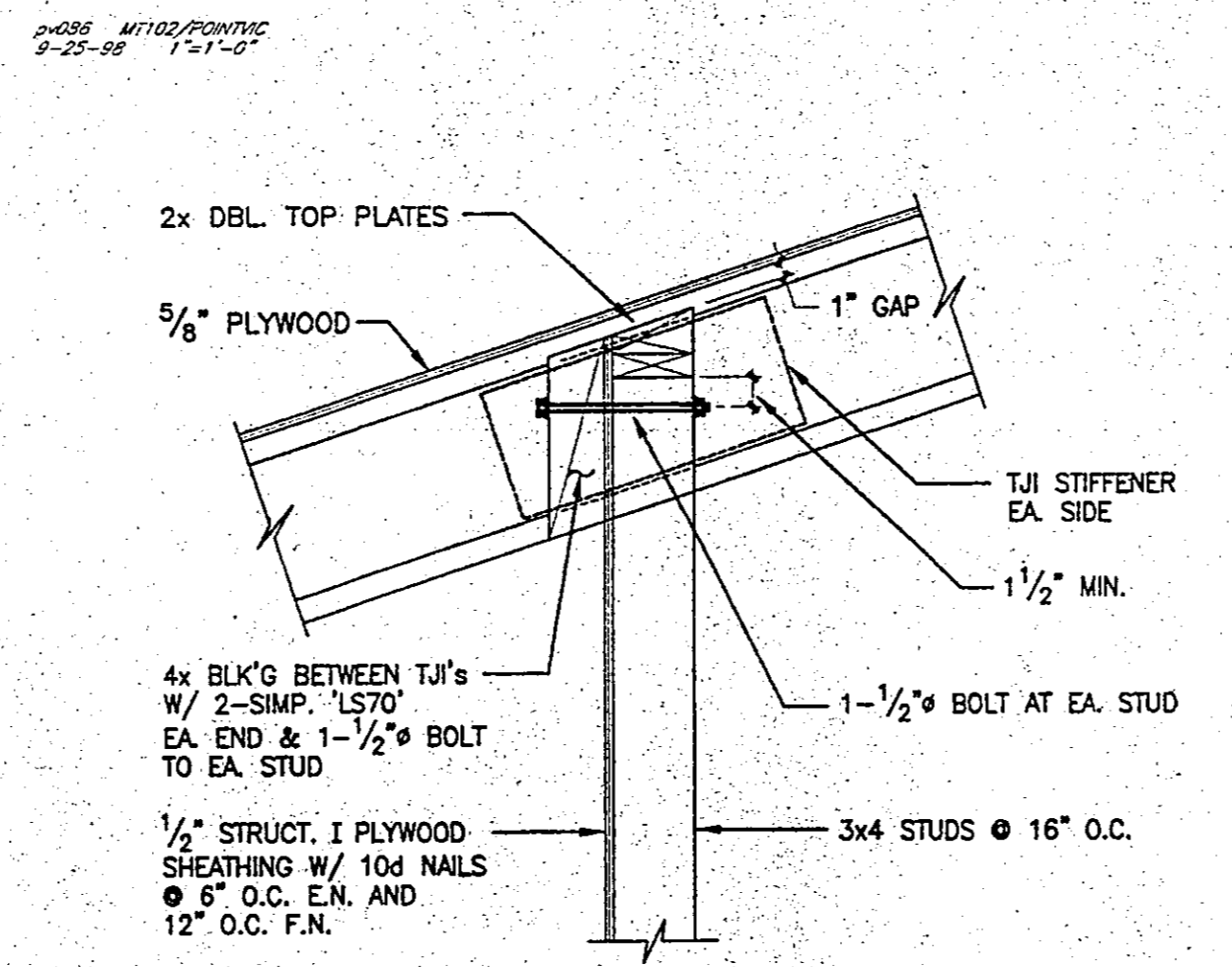
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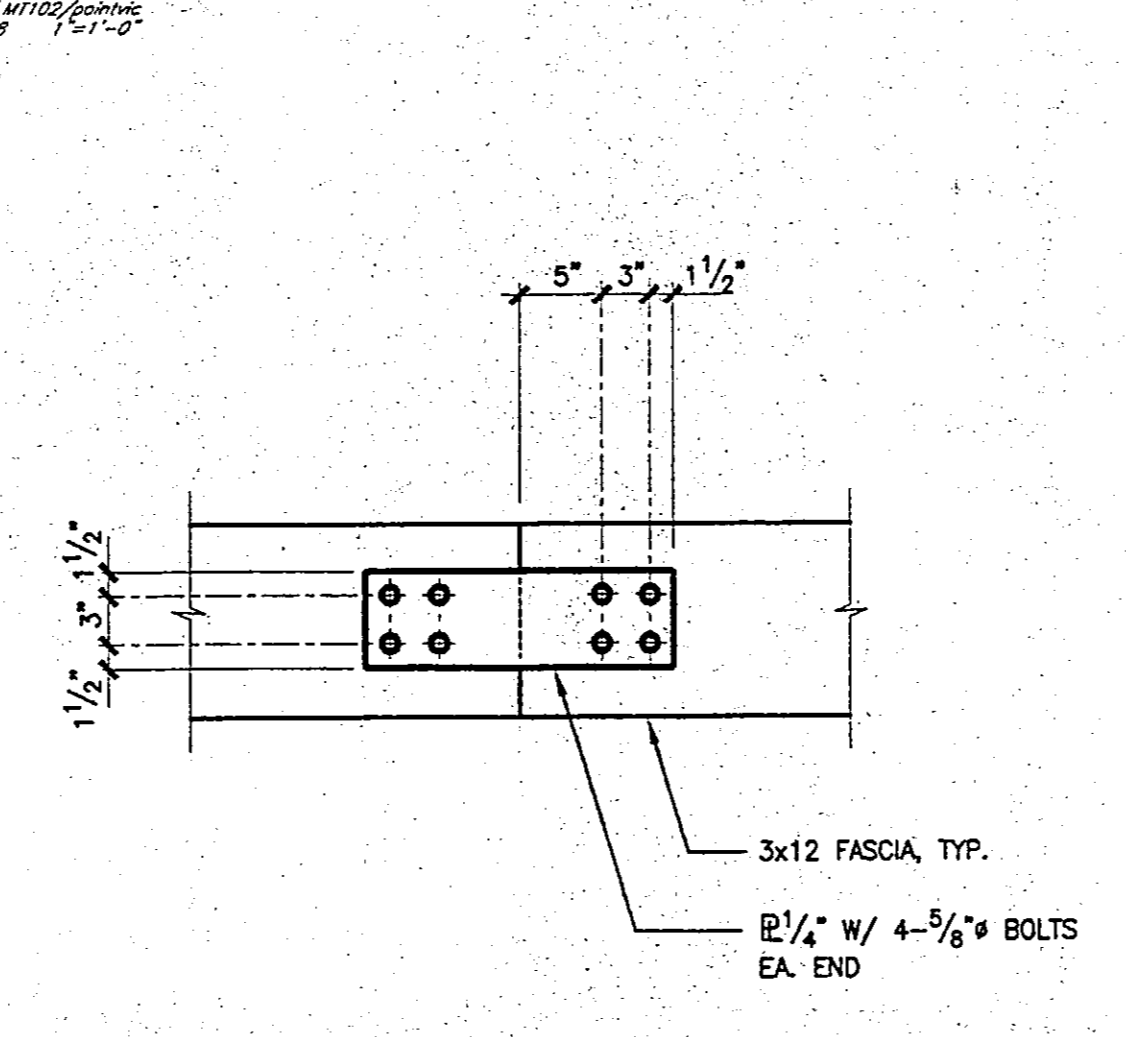
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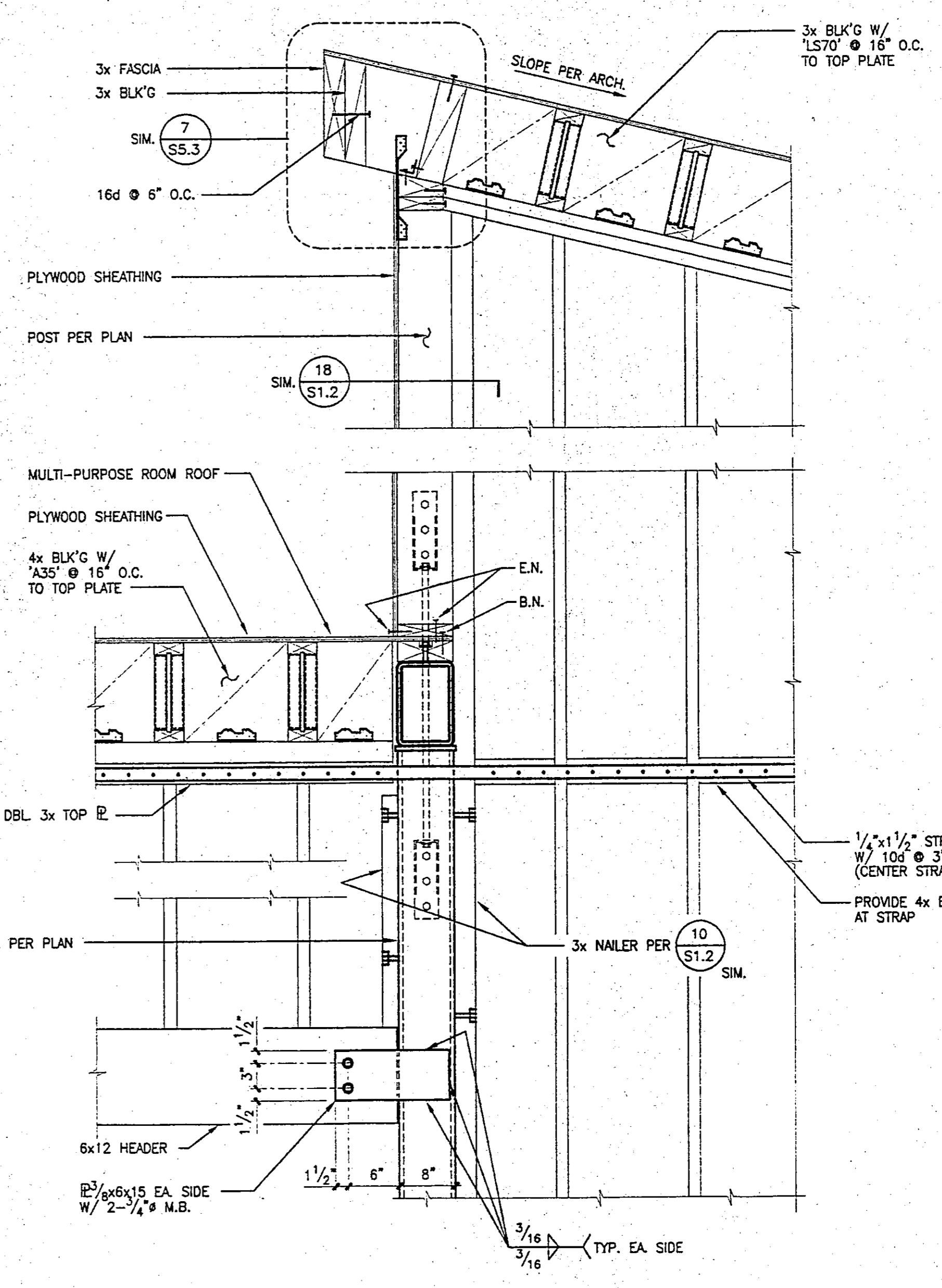
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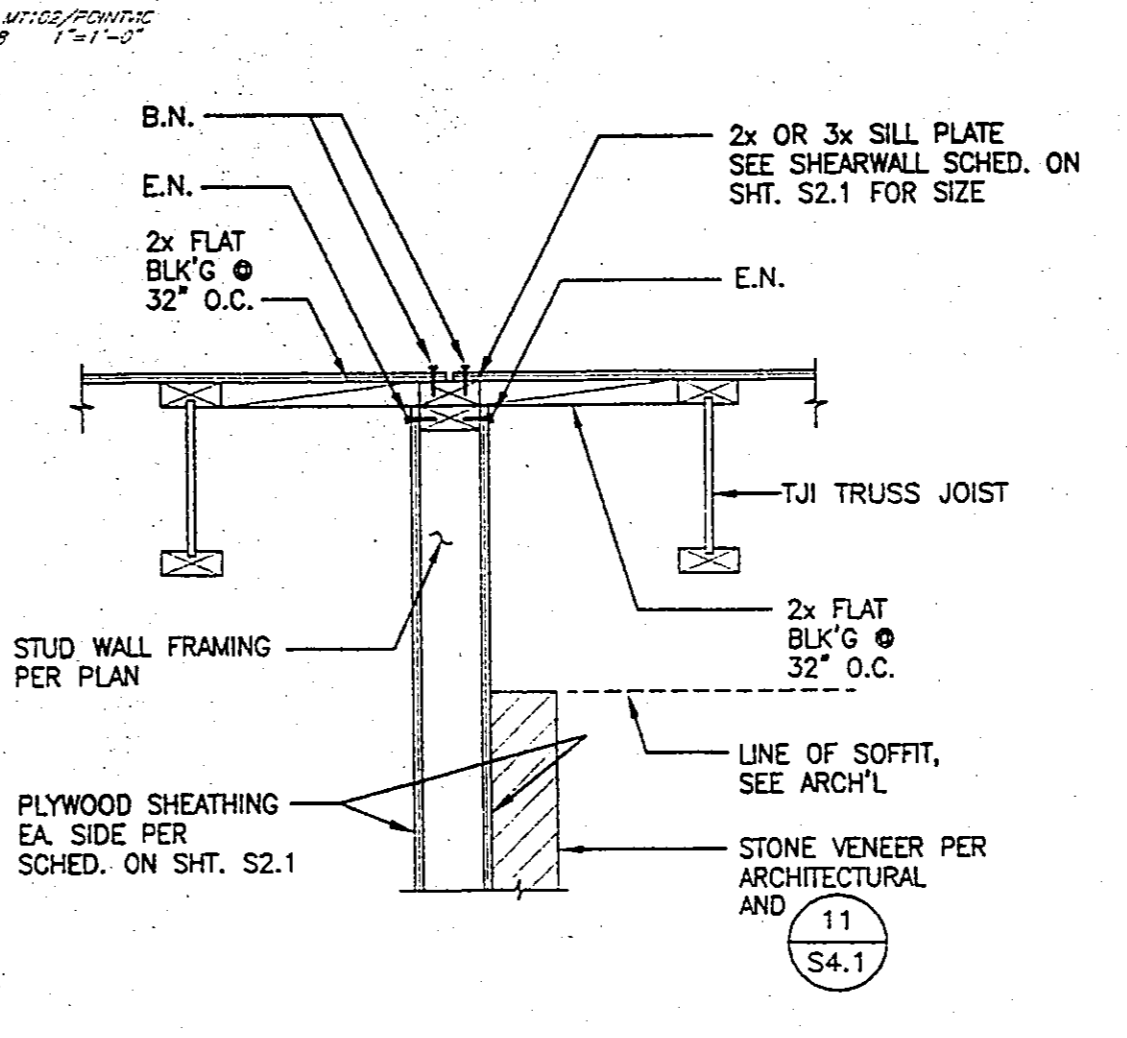
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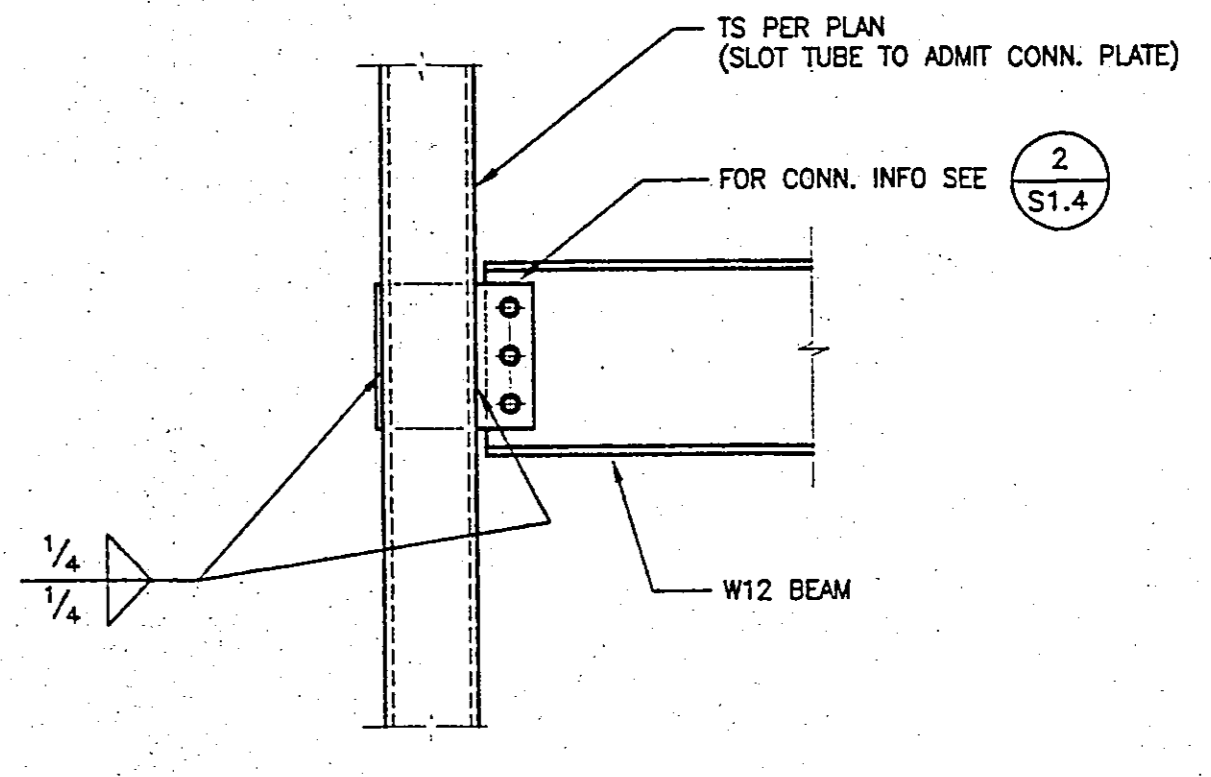
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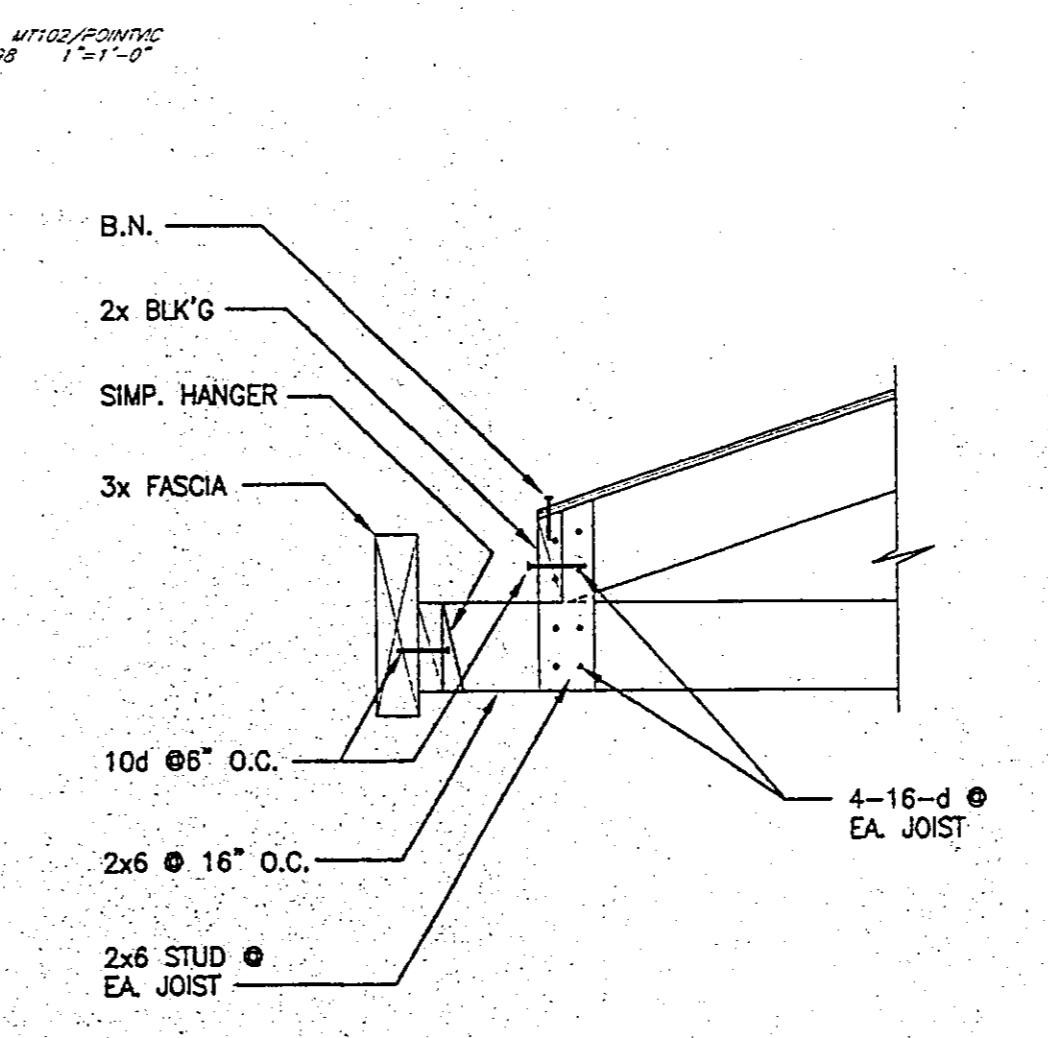
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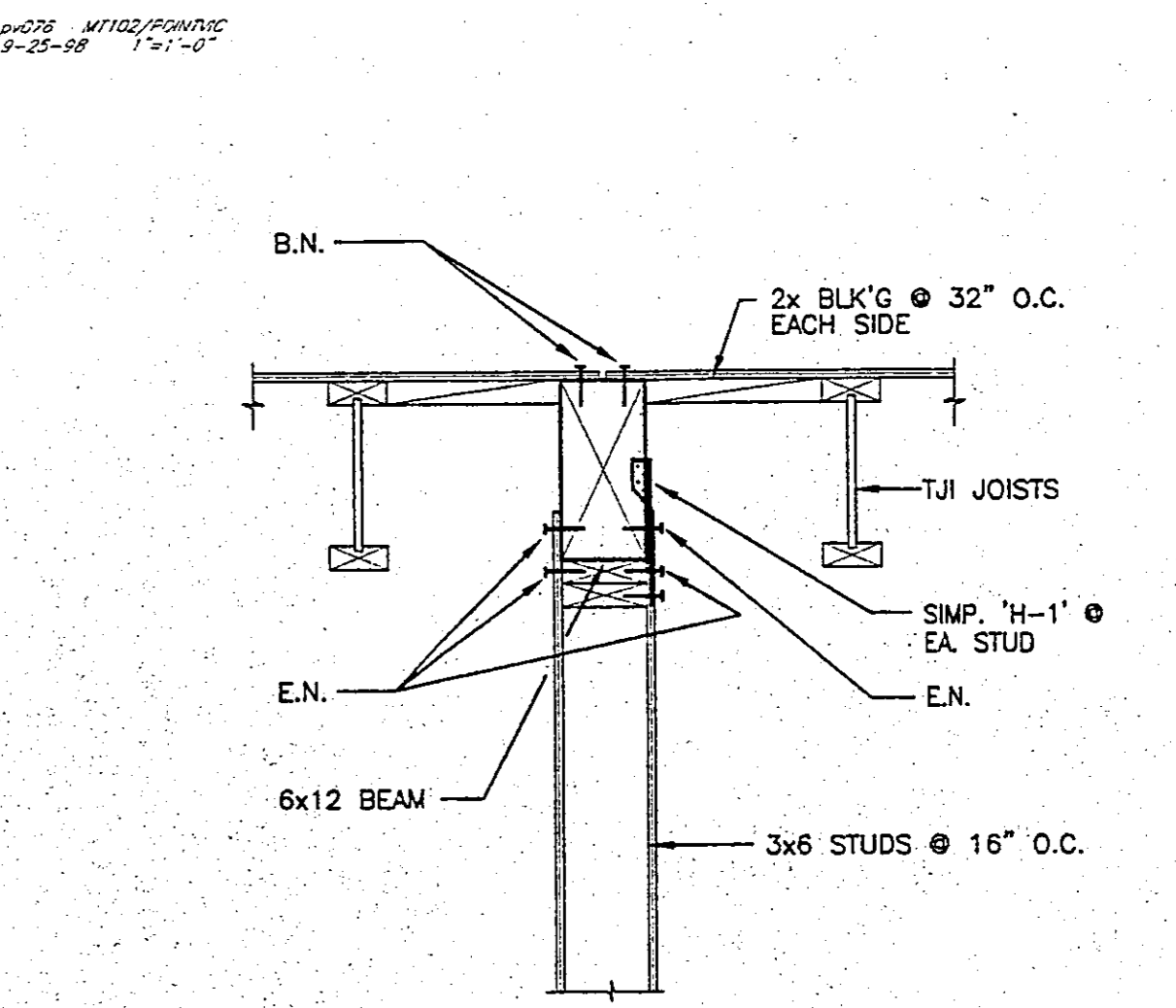
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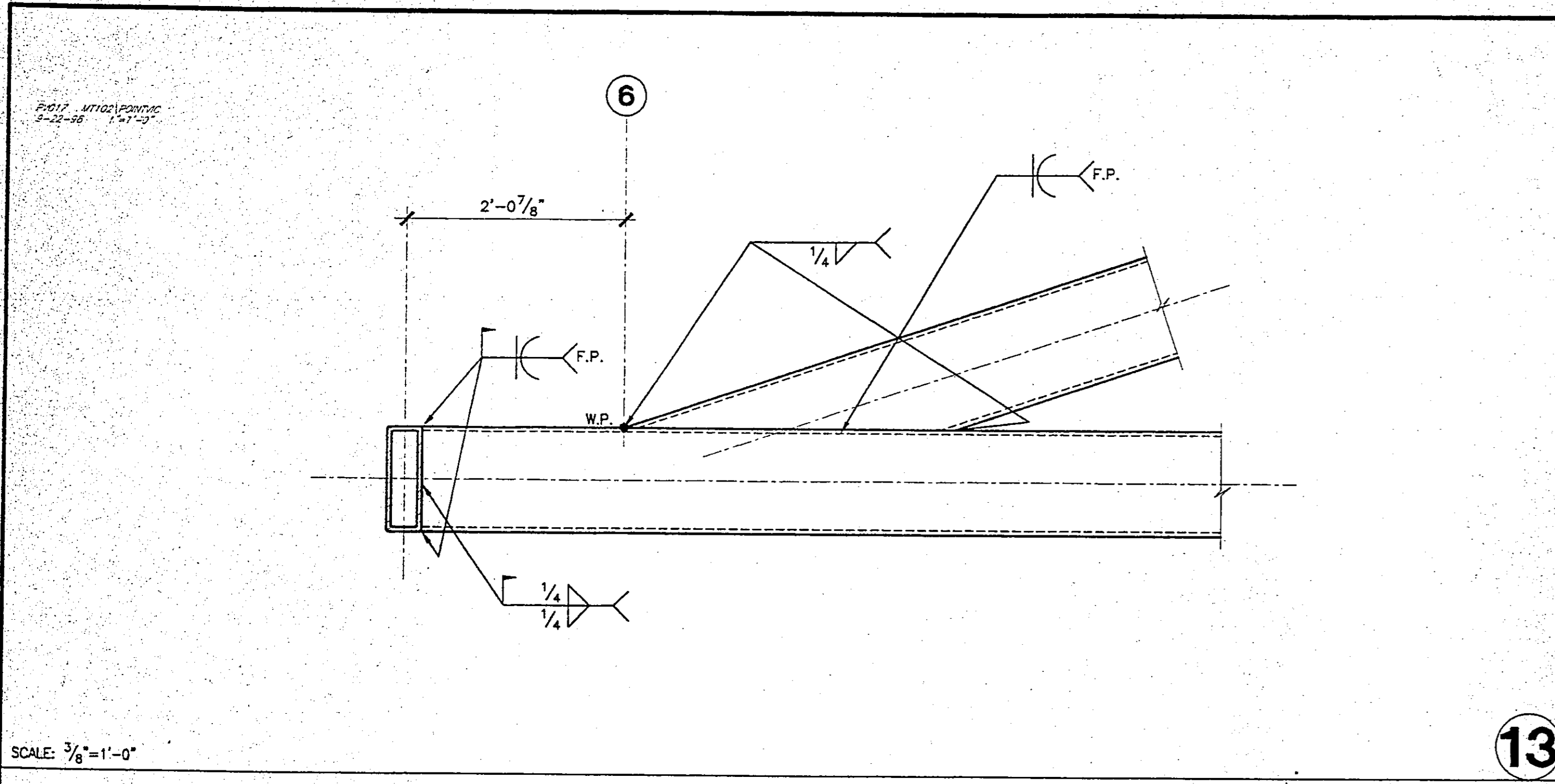
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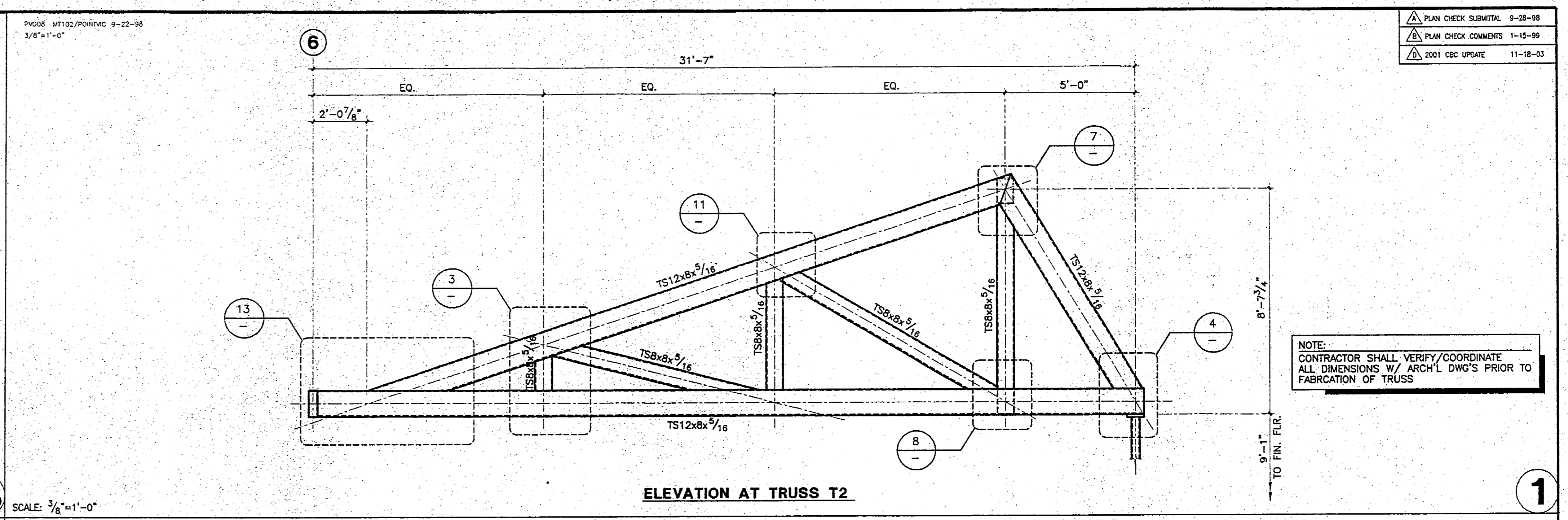
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12

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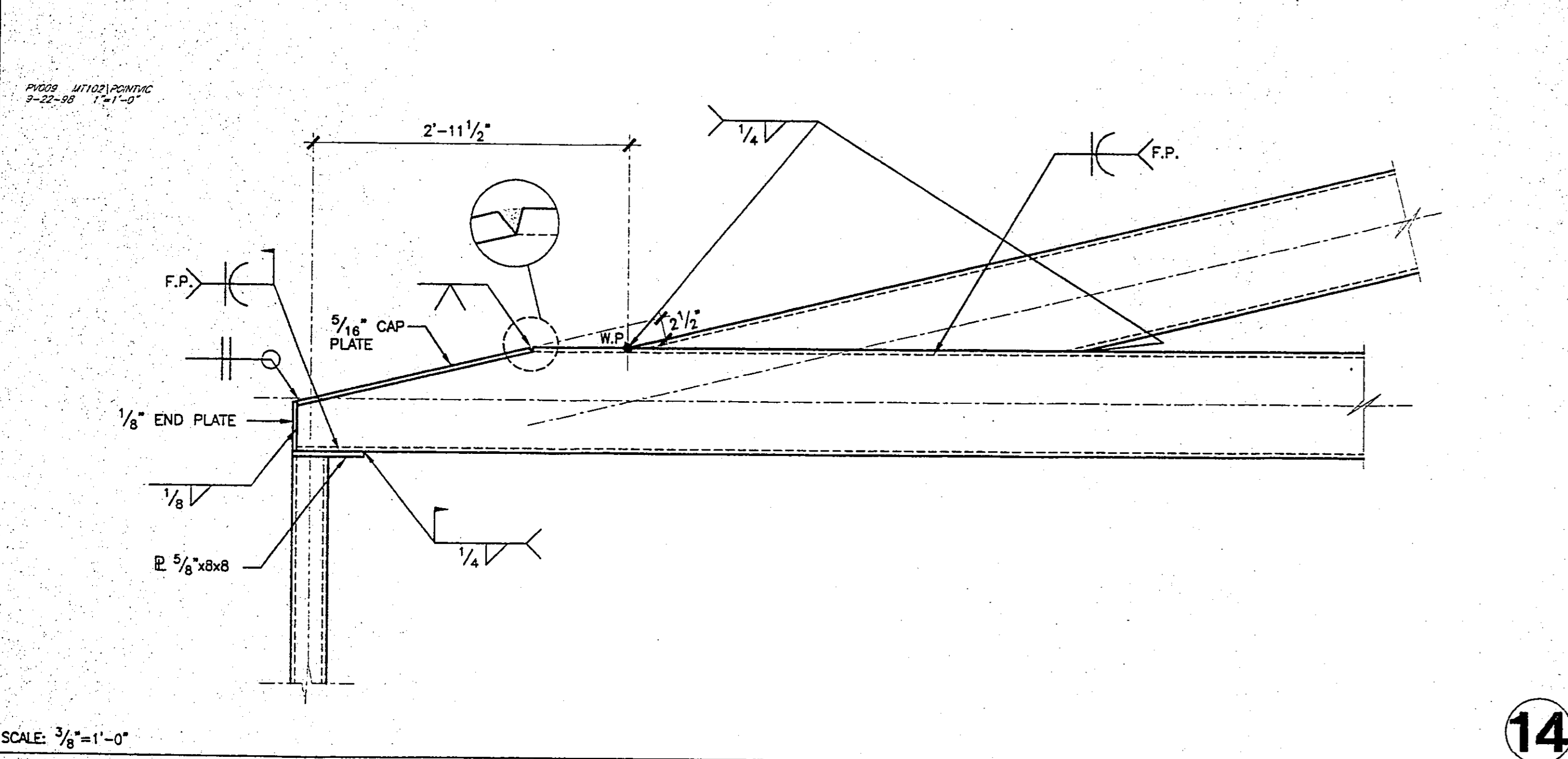


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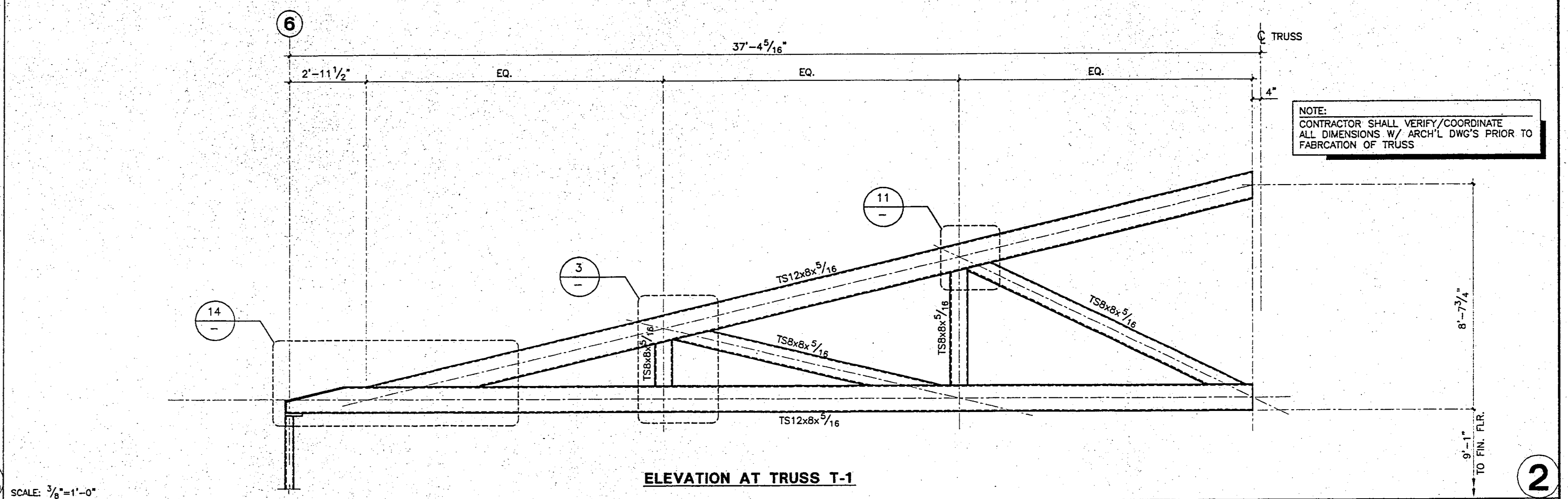


ELEVATION AT TRUSS T2

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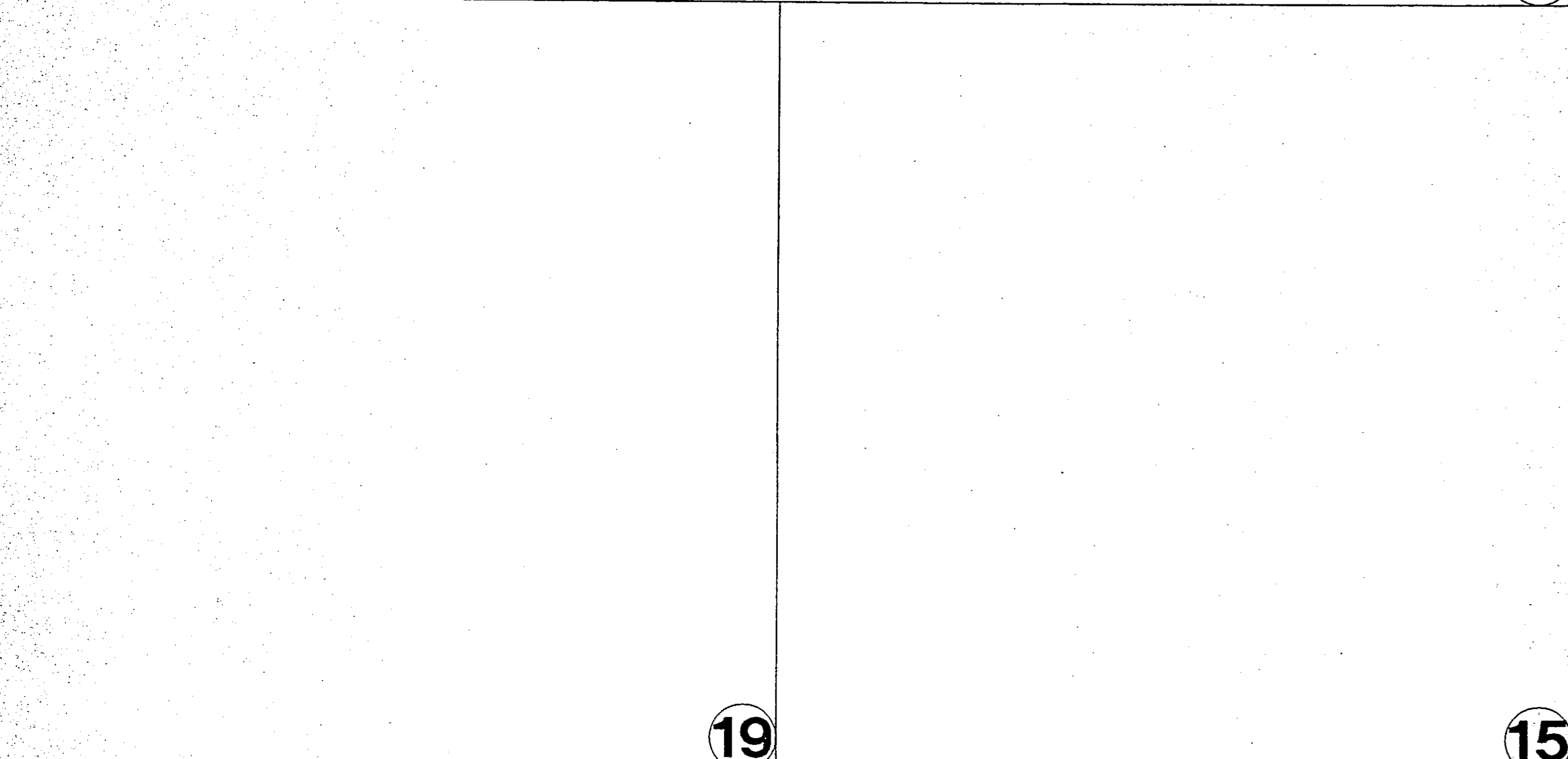


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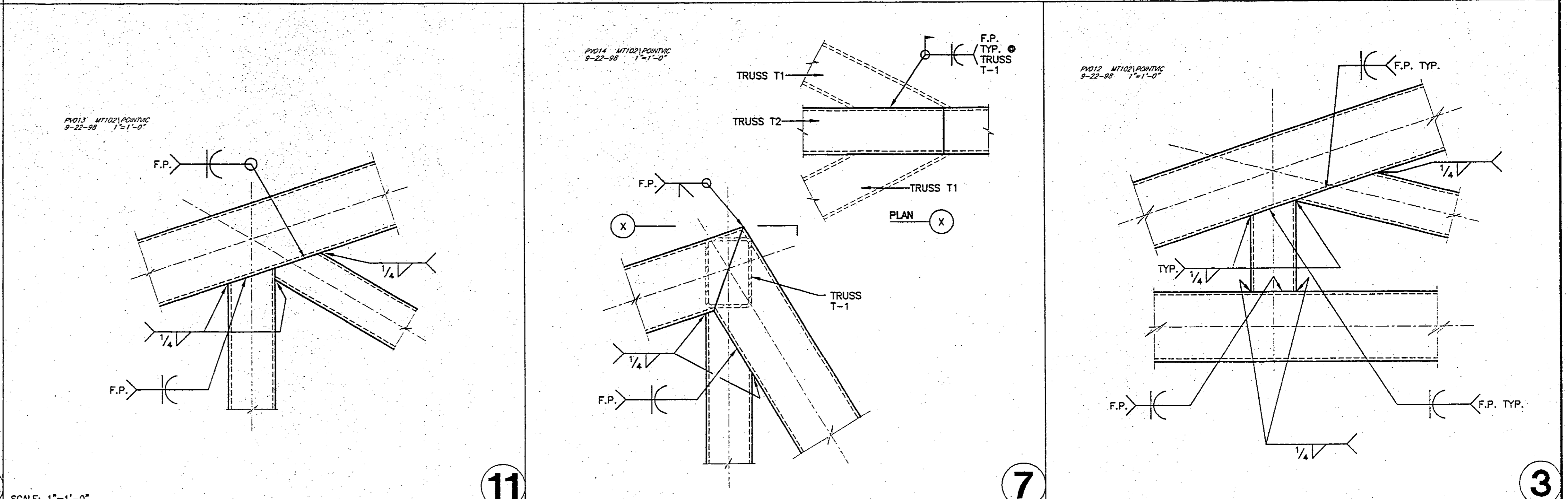


ELEVATION AT TRUSS T-1

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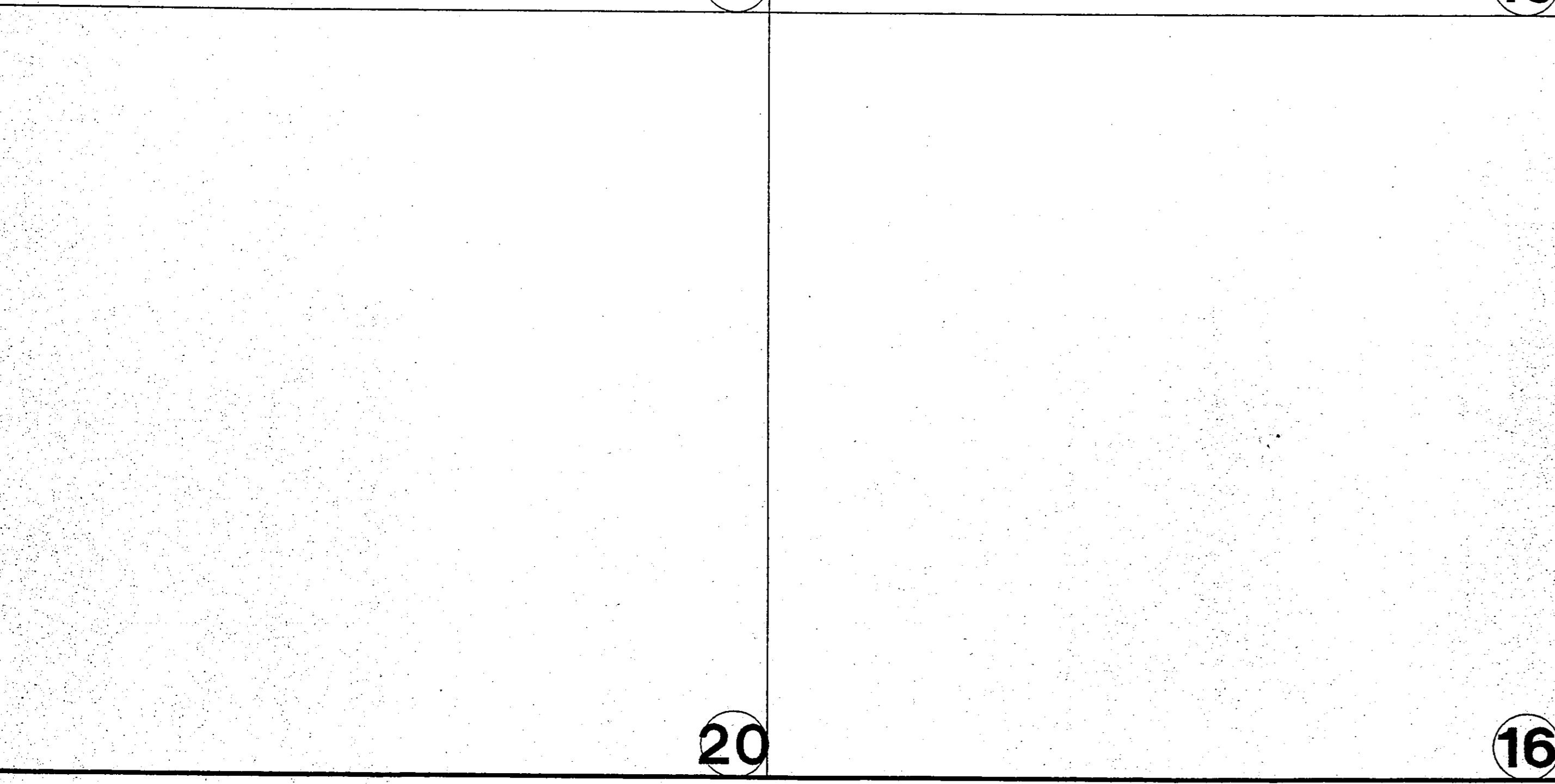


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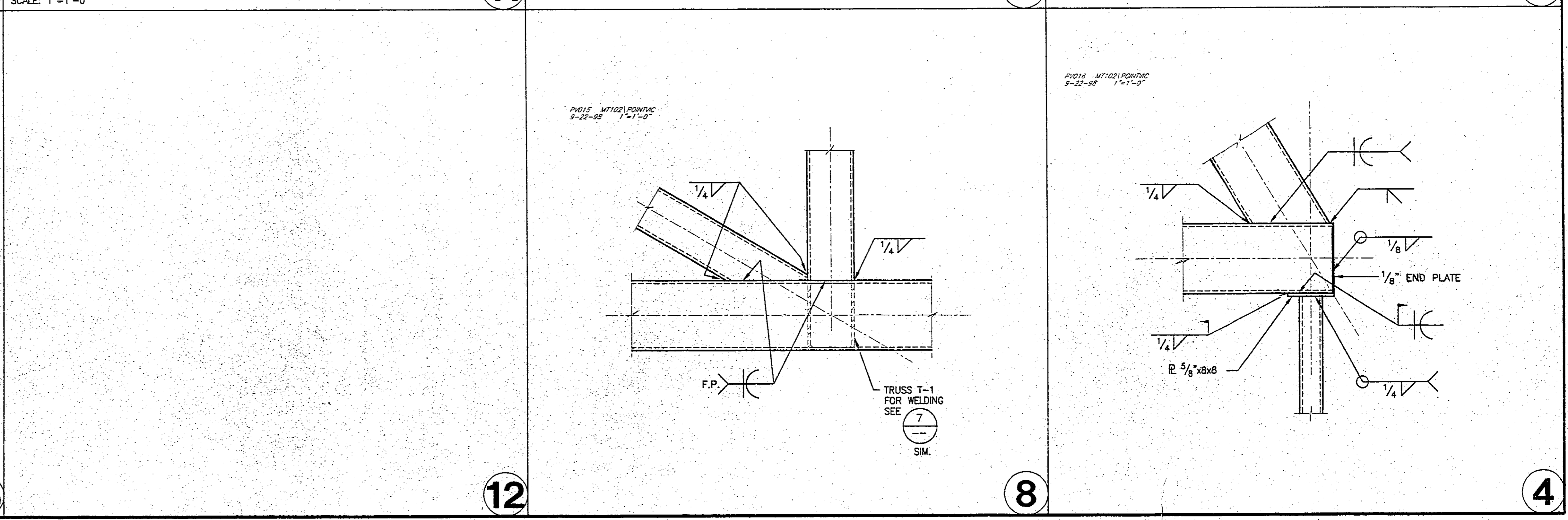


ELEVATION AT TRUSS T-1

SCALE: 1"=1'-0"



SCALE: 1"=1'-0"



ELEVATION AT TRUSS T-1

SCALE: 1"=1'-0"

RON YEO, FAIA ARCHITECT, INC.
 500 JASMINE AVENUE, CORONA DEL MAR, CA 92625
 PATRICK MARR, AIA, PE, ASSOCIATE ARCHITECT

REGISTERED PROFESSIONAL ENGINEER
 No. 1725
 E.C.E. 5-30-05
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 STATE OF CALIFORNIA

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 Fax (714) 794-4272

POINT VICENTE INTERPRETIVE CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

TRUSS DETAILS

DRAWN DW
 CHECKED SM
 DATE
 SCALE 6/16
 JOB NO. 2853421
 SHEET

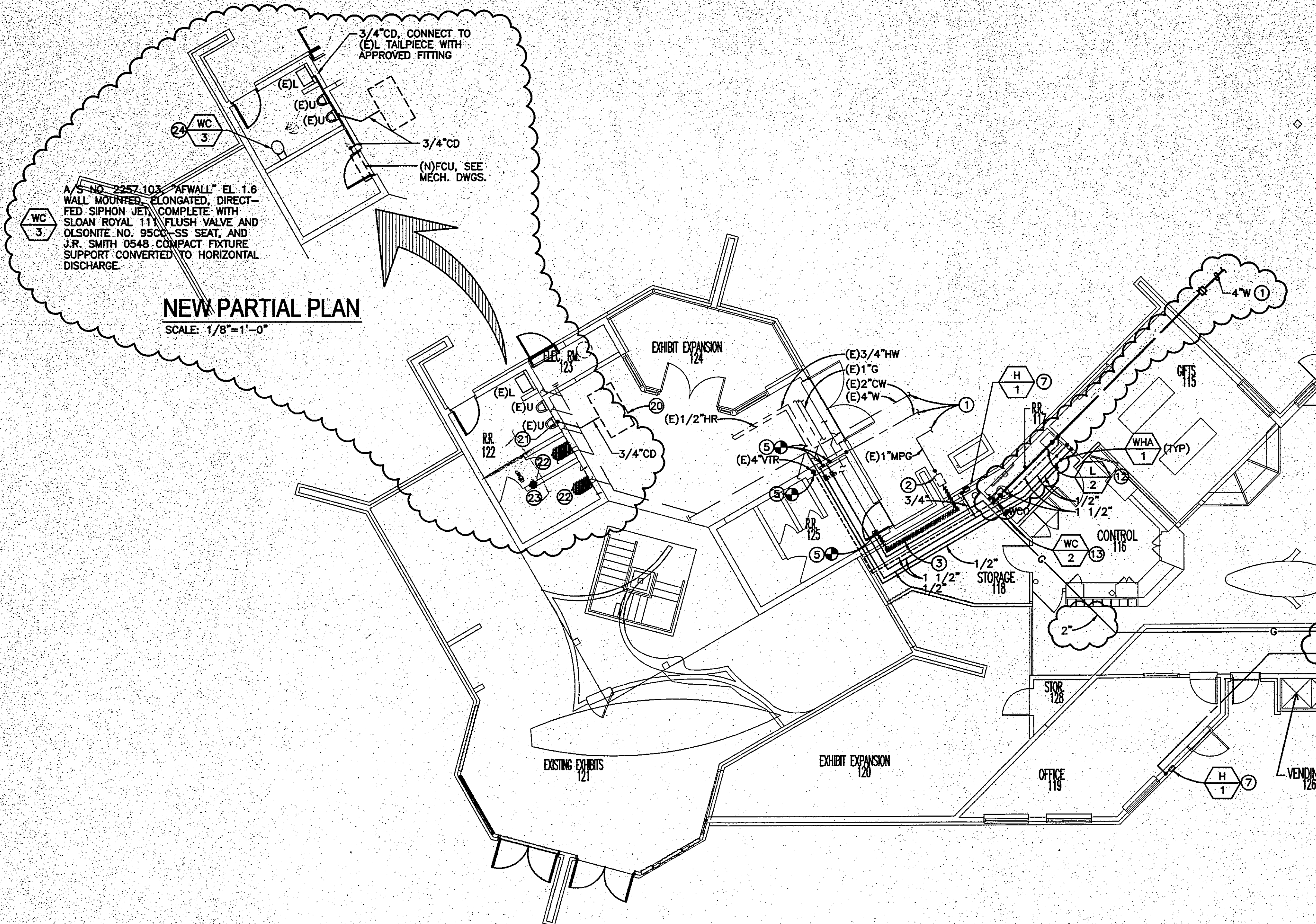
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53 OF 69 SHEETS

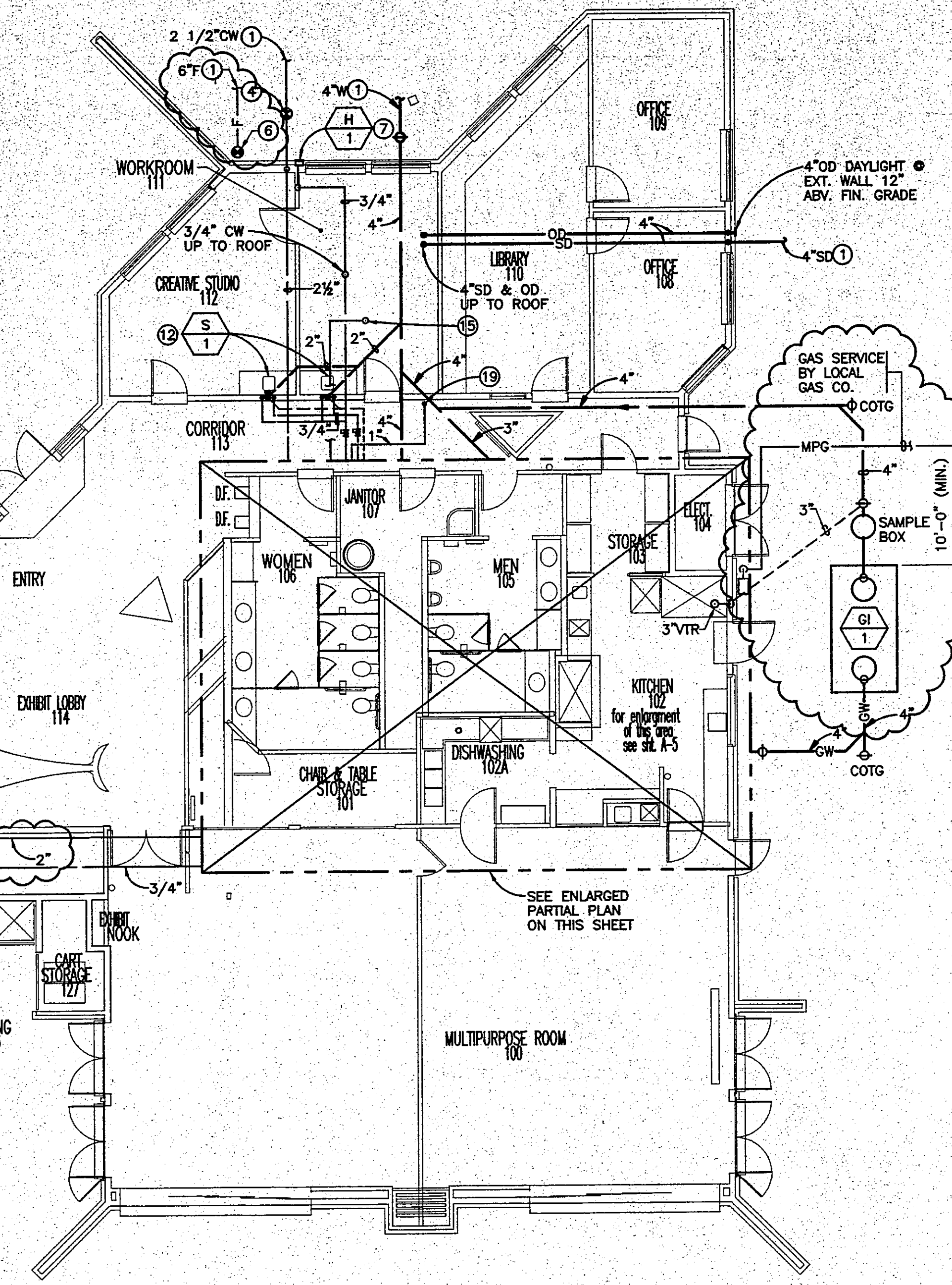
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Source Group



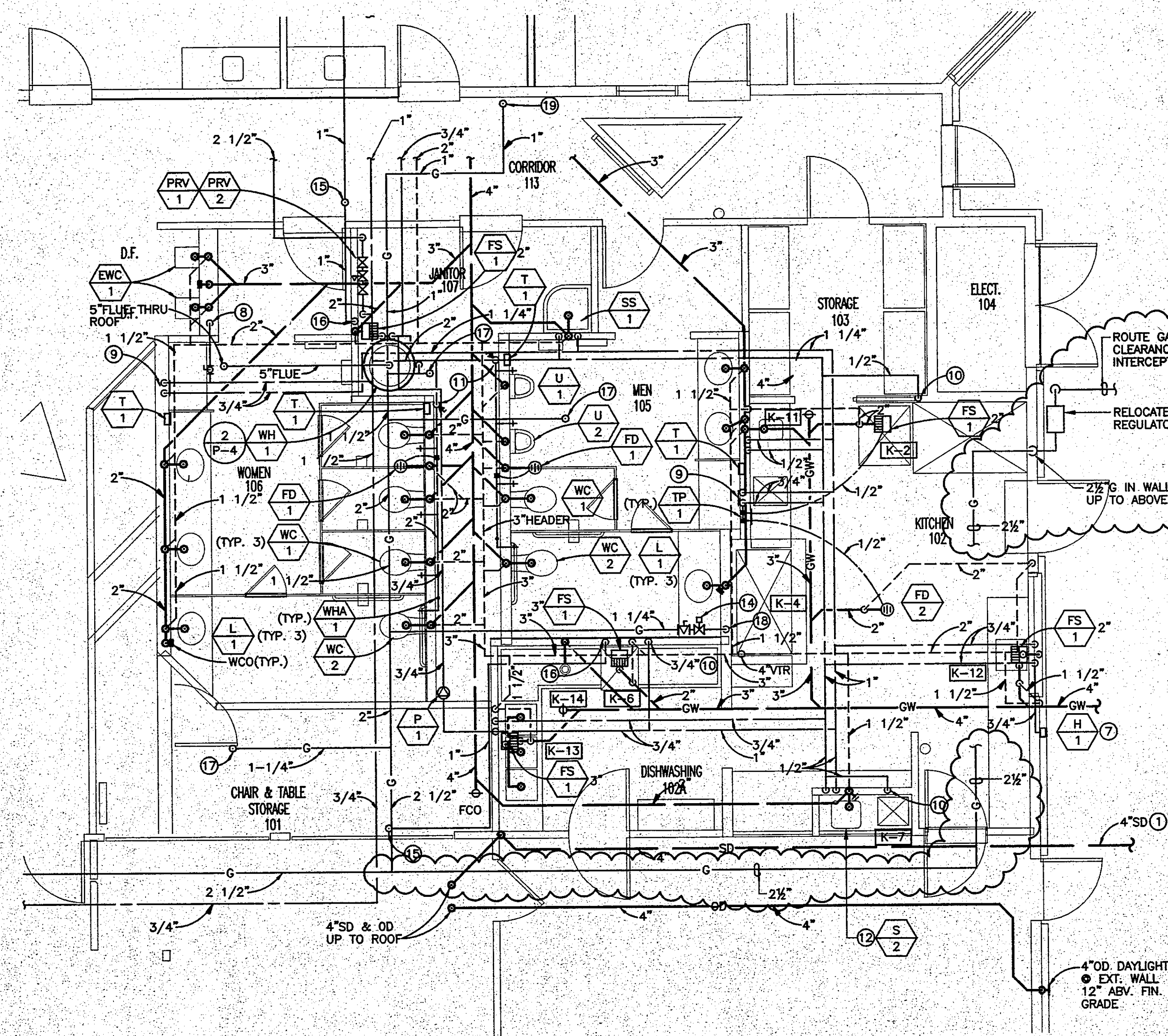
NEW PARTIAL PLAN
SCALE: 1/8"=1'-0"



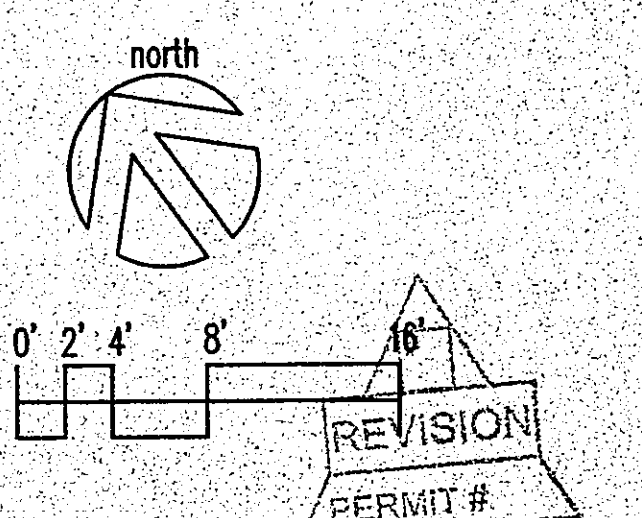
KEY NOTES:

- 1 SEE CIVIL DRAWINGS FOR CONTINUATION.
- 2 EXISTING GAS METER AND REGULATOR ASSEMBLY TO BE RELOCATED AND UPSIZED AS REQUIRED BY LOCAL GAS COMPANY. SEE UTILITY SCHEDULE ON SHEET P-1 FOR NEW TOTAL GAS DEMAND. CAP EXISTING GAS SERVICE.
- 3 REMOVE SEGMENT OF EXISTING LOW PRESSURE GAS LINE BELOW GRADE. REROUTE NEW GAS LINE IN BUILDING WITHIN CEILING SPACE. SIZE OF GAS LINE TO MATCH EXISTING.
- 4 SHUT OFF VALVE IN YARD BOX.
- 5 VERIFY EXACT LOCATION IN FIELD PRIOR TO INSTALLATION OF ANY PIPING.
- 6 AUTOMATIC FIRE SPRINKLER RISER. SEE DETAIL ON SHEET P-4.
- 7 INSTALL AT 18" ABOVE FINISHED GRADE.
- 8 3/4" CW DN TO EWC-1.
- 9 3/4" CW & 3/4" HW DN TO HEADERS WITH SHUT OFF VALVE BEHIND ACCESS PANEL.
- 10 HW DN TO KITCHEN EQUIPMENT. PROVIDE STUB-OUT WITH SHUT OFF VALVE AND BACKFLOW PREVENTER (BFP-1). COORDINATE ROUGH-IN LOCATION AND ELEVATION WITH KITCHEN CONTRACTOR.
- 11 2" CW DN TO CW HEADER WITH SHUT OFF VALVE.
- 12 1/2" CW, 1/2" HW, 1 1/2" V & 2" W.
- 13 1 1/2" CW, 2" V, & 4" W.
- 14 EMERGENCY GAS SHUT OFF SOLENOID VALVE INTERLOCKED WITH HOOD FIRE SUPPRESSION SYSTEM AND MANUAL EMERGENCY SHUT OFF.
- 15 1" CD UP TO A/C ON ROOF.
- 16 CD DN TO FLOOR SINK AND TERMINATE WITH 2" MIN. AIR GAP.
- 17 1 1/4" G UP TO A/C ON ROOF.
- 18 1 1/4" G DN TO K-4 WITH GAS COCK. COORDINATE ROUGH-IN LOCATION AND ELEVATION WITH KITCHEN CONTRACTOR.
- 19 1" G UP TO A/C ON ROOF.
- 20 CONNECT EXISTING 1" G TO NEW FAN.
- 21 3/4" CD DN IN WALL AND CONNECT TO LAVATORY TAILPIECE.
- 22 REMOVE EXISTING WATER CLOSET AND PLUG EXISTING CLOSET BEND.
- 23 PLUG EXISTING FLOOR DRAIN.
- 24 PROVIDE WITH 1 1/2" CW, 3" W, AND 2" V ROUGH-INS. CONNECT TO NEAREST SERVICES AVAILABLE ABOVE FINISHED FLOOR. CONTRACTOR TO VERIFY IN FIELD.

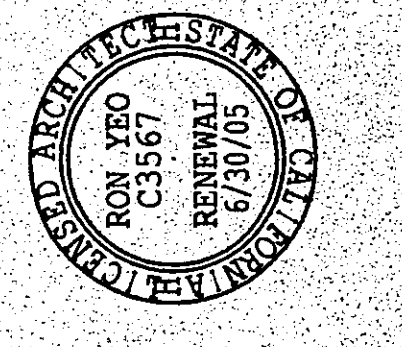
ITEM	QTY	DESCRIPTION	CW	HW	HGT	WASTE	0	GAS	MBTU	REMARKS
K-2	1	ICE MAKER AND BIN	1/2"			3/4"	1			WITH SOV, INDIRECT WASTE TO FS
K-4	1	COOKING RANGE						3/4"	208	
K-6	1	DISHWASHER		3/4"		2"	1			WITH SOV, INDIRECT WASTE TO FS
K-7	1	COFFEE MAKER	1/2"							WITH SOV
K-11	1	HANDWASH SINK	1/2"	1/2"		1 1/2"	D			
K-12	1	FRIED SINK	1/2"	1/2"		1 1/2"	1			INDIRECT WASTE TO FS
K-13	1	3-COMPARTMENT SINK	3/4"	3/4"		1 1/2"	D			WITH SOV, INDIRECT WASTE TO FS
K-14	1	GARBAGE DISPOSER		1/2"		1 1/2"	D			



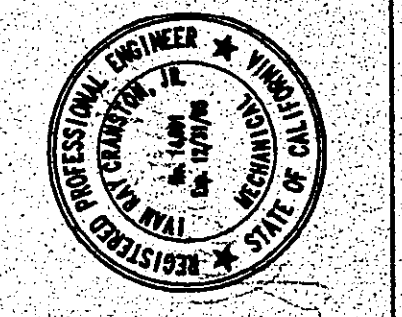
APPROVALS
Architect



POINT VICENTE INTERPRETIVE CENTER EXPANSION
31501 Palms Verdes Drive, West
Rancho Palms Verdes, CA



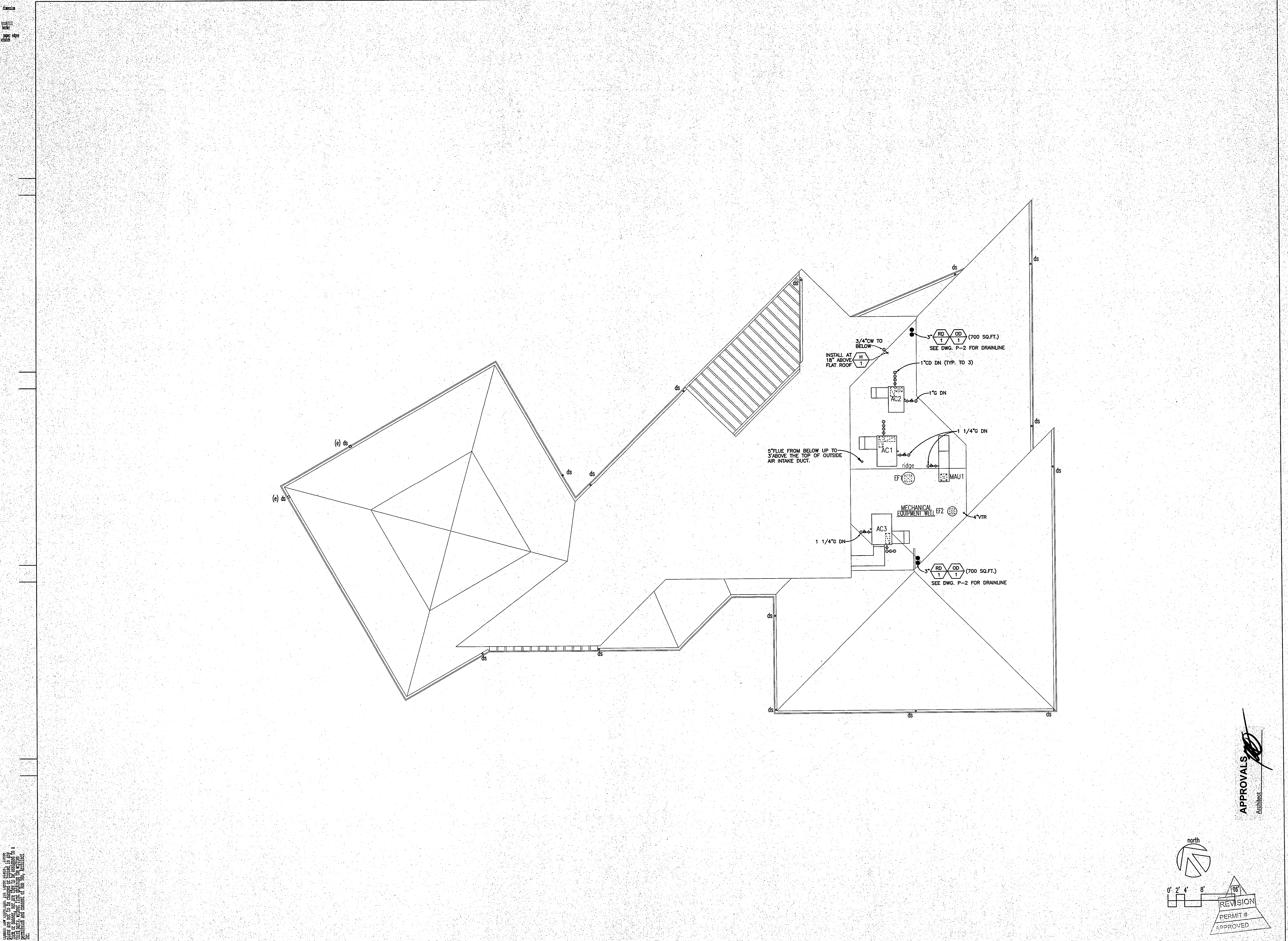
PLANS PREPARED BY:
ETA
Engineering & Architecture
221 S. Laguna Blvd.
Suite 200
Laguna Hills, CA 92653
Phone: (714) 772-2222
Fax: (714) 772-2222



POINT VICENTE INTERPRETIVE CENTER EXPANSION
31501 Palms Verdes Drive, West
Rancho Palms Verdes, CA

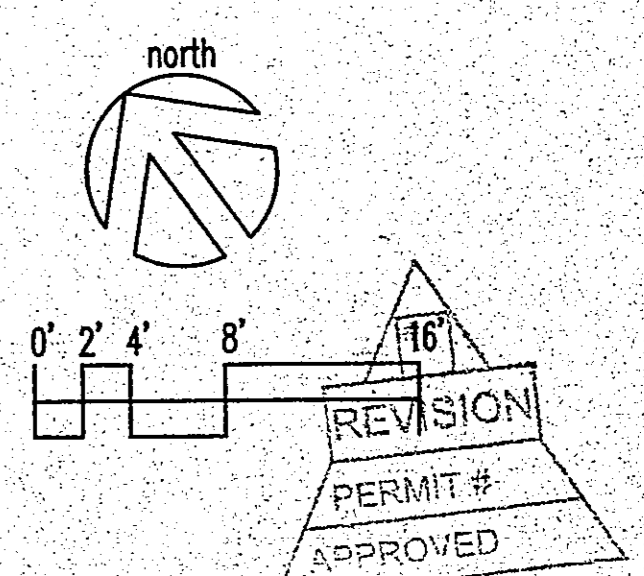
Plumbing Floor Plan
REVISION DATE: 02-09-04

DRAWN	SAA
CHECKED	IRC
DATE	2/17/99
SCALE	1/8"=1'-0"
JOB NO.	97-123
SHEET	P-2
REV. DATE	DEC 27, 2004
TOTAL SHEETS	55 OF 69 SHEETS



5000
1/10/03

PLUMBING ROOF PLAN

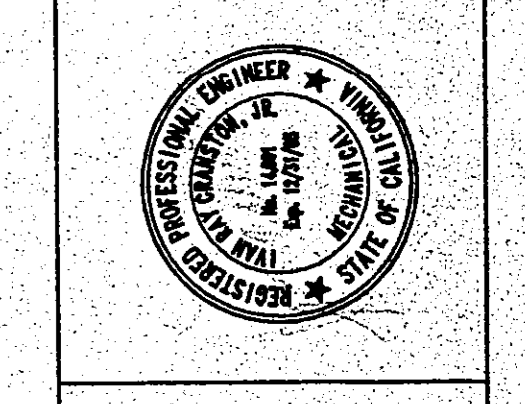


APPROVALS
Architect

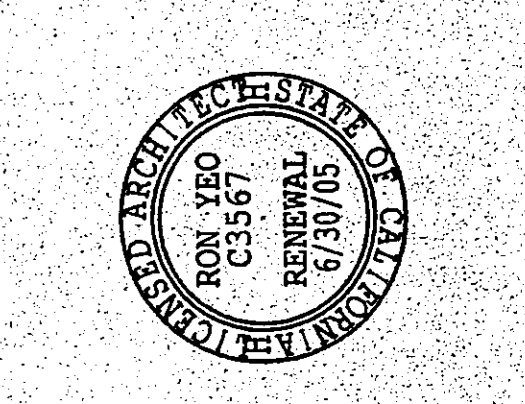
Scale: 1/8" = 1'-0"

DESIGNED BY	SAV
CHECKED BY	RCB
DATE	2/7/99
SCALE	1/8" = 1'-0"
PERMIT #	97-123
SHEET	CBM
P-3	DEC 4 7 2003
56 OF 69 SHEETS	

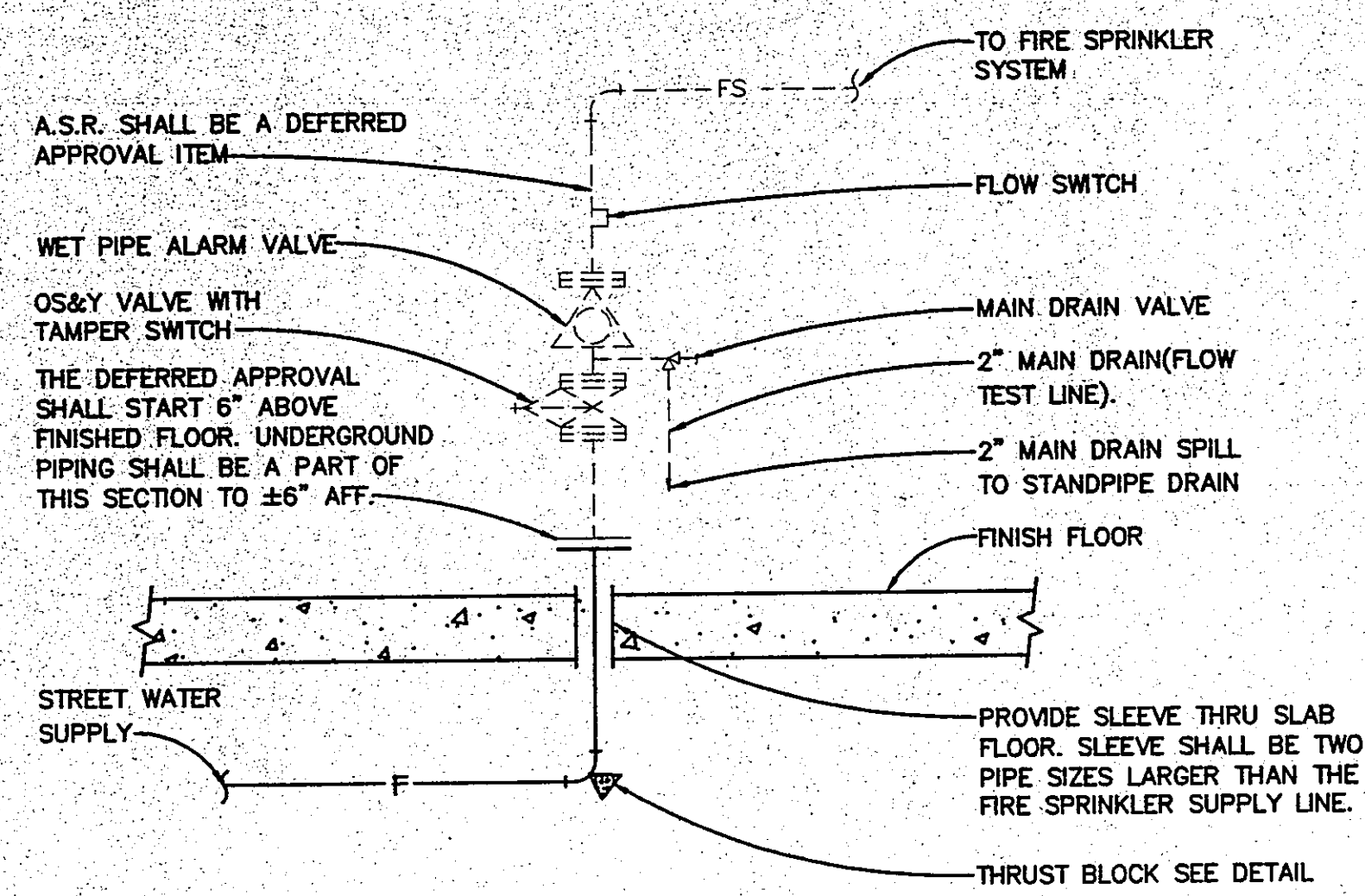
POINT VICENTE INTERPRETIVE
CENTER EXPANSION
31501 Palos Verdes Drive West
Rancho Palos Verdes, CA



PLANS PREPARED BY:
FTA
F. T. ARCHITECTURE
10000 Palms Blvd
Palms, CA 90274
Phone: 310 772-2700
Fax: 310 772-2700

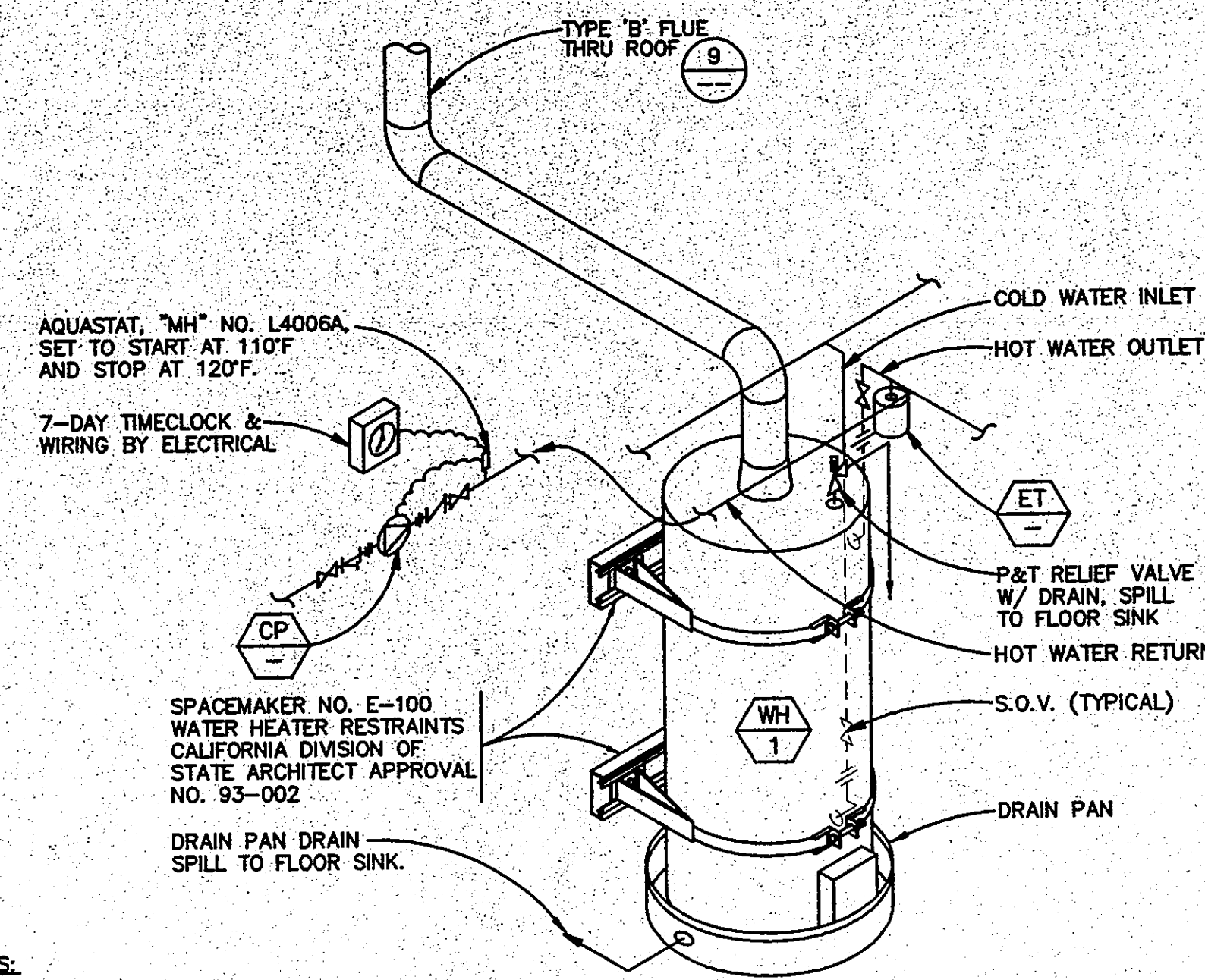


ED
RON YEO, FTA ARCHITECT, INC. DEPT. MEP
300 W. 10TH ST., SUITE 200
SANTA ANA, CA 92701-0449
PATRICK MARY, AIA, P.E., ASSOCIATE ARCHITECT



AUTOMATIC SPRINKLER RISER DETAIL

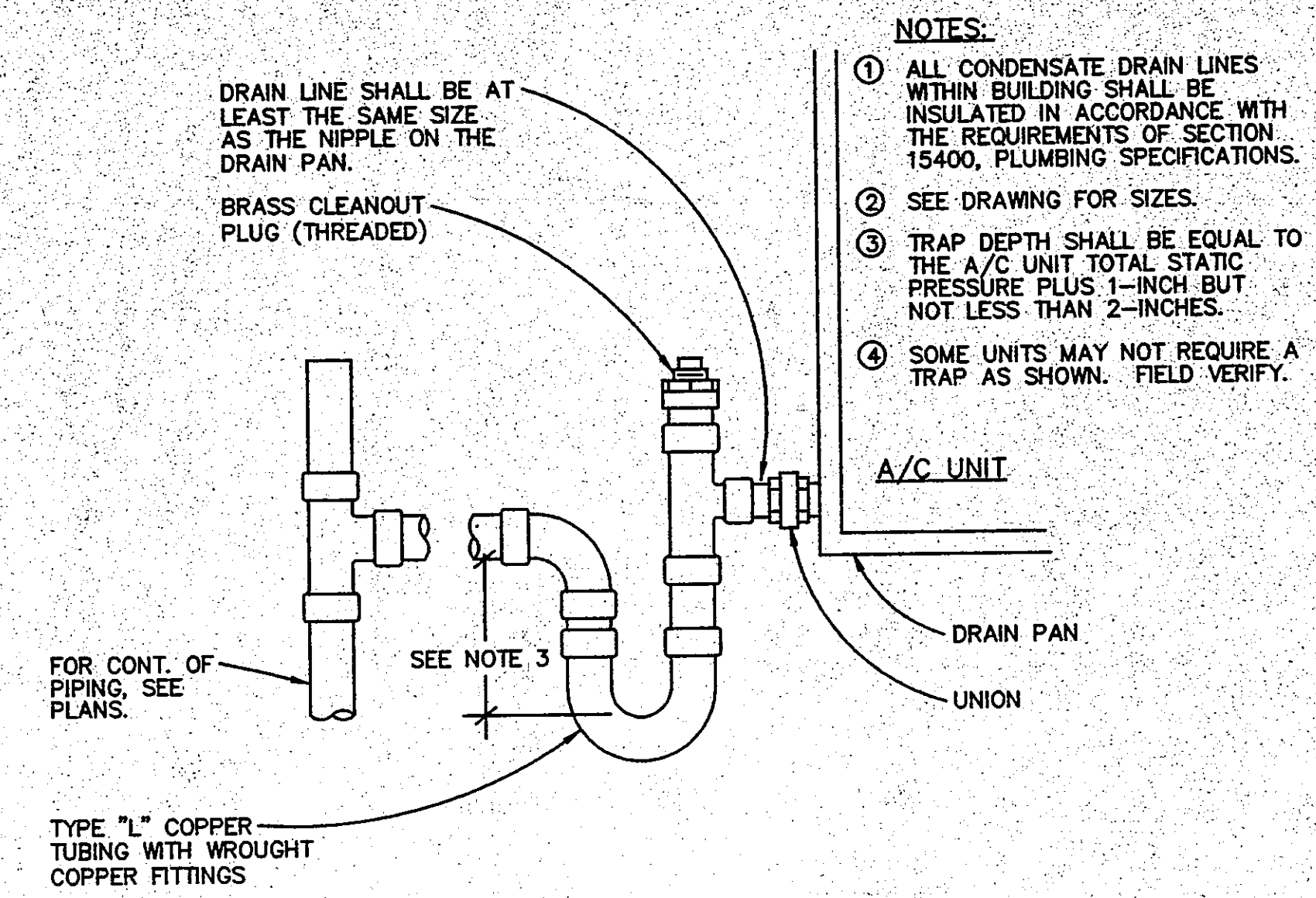
SCALE NONE 1



INSTALLATION NOTES:
 1. MOUNT CHANNELS ON WALL STUDS.
 2. INSTALL UPPER RESTRAINT 1/3 DOWN FROM TOP OF WATER HEATER AND LOWER RESTRAINT 4\"/>

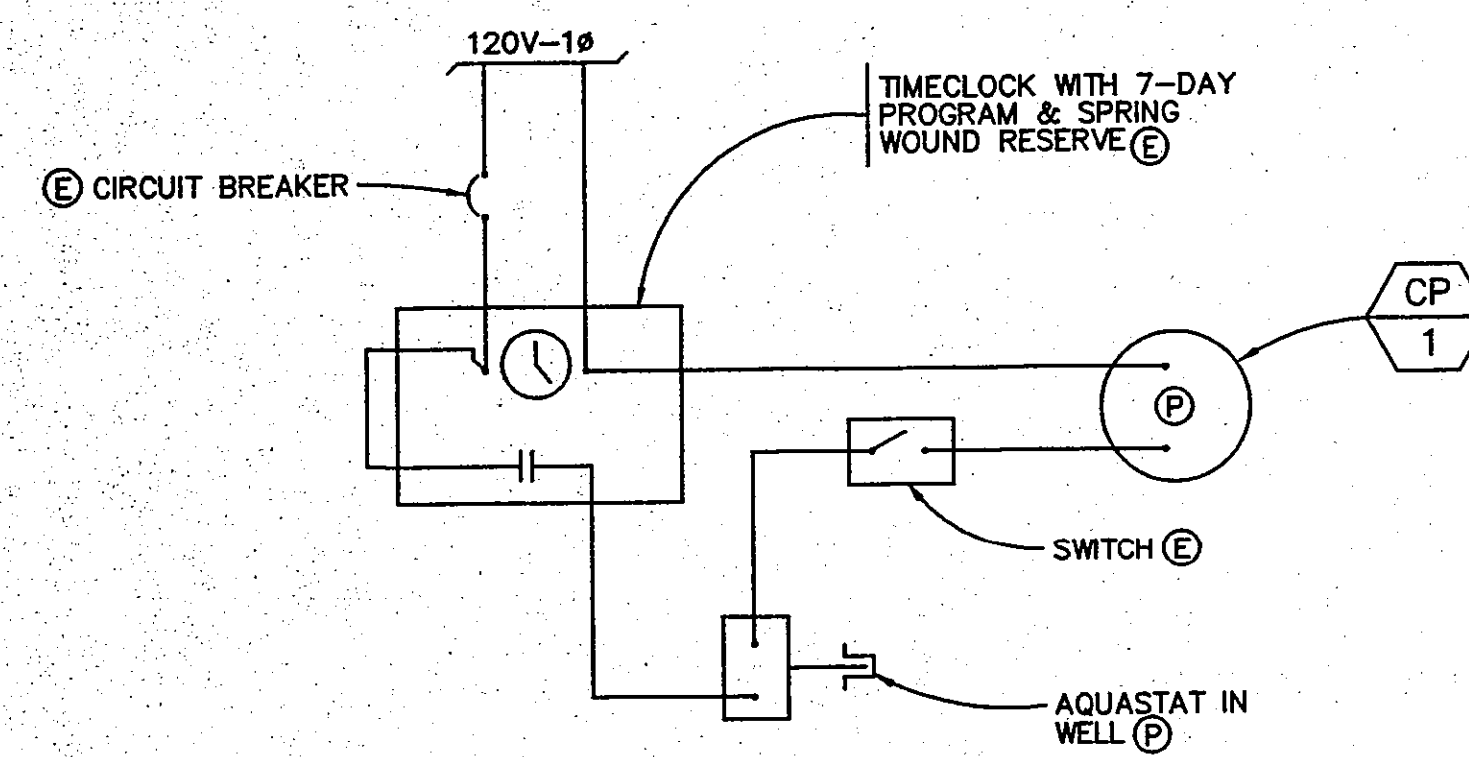
WATER HEATER

SCALE NONE 2



CONDENSATE DRAIN TRAP DETAIL

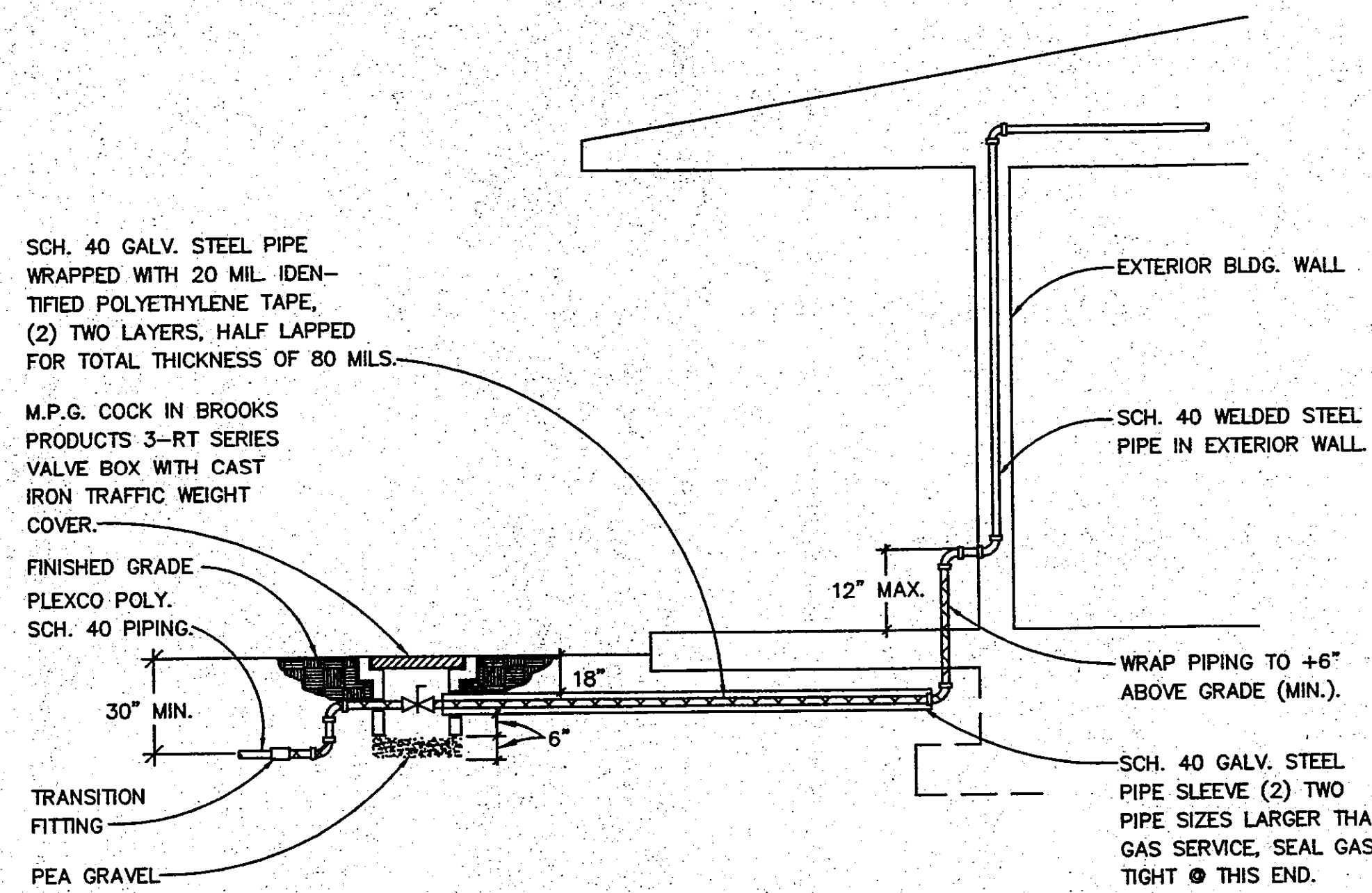
SCALE NONE 3



Ⓔ ITEM INDICATED ON THE ELECTRICAL DRAWING AND SPECIFIED IN THE ELECTRICAL SECTIONS OF THE SPECIFICATION.
 Ⓕ ITEM INDICATED ON THE PLUMBING DRAWING AND SPECIFIED IN THE PLUMBING SECTIONS OF THE SPECIFICATION.

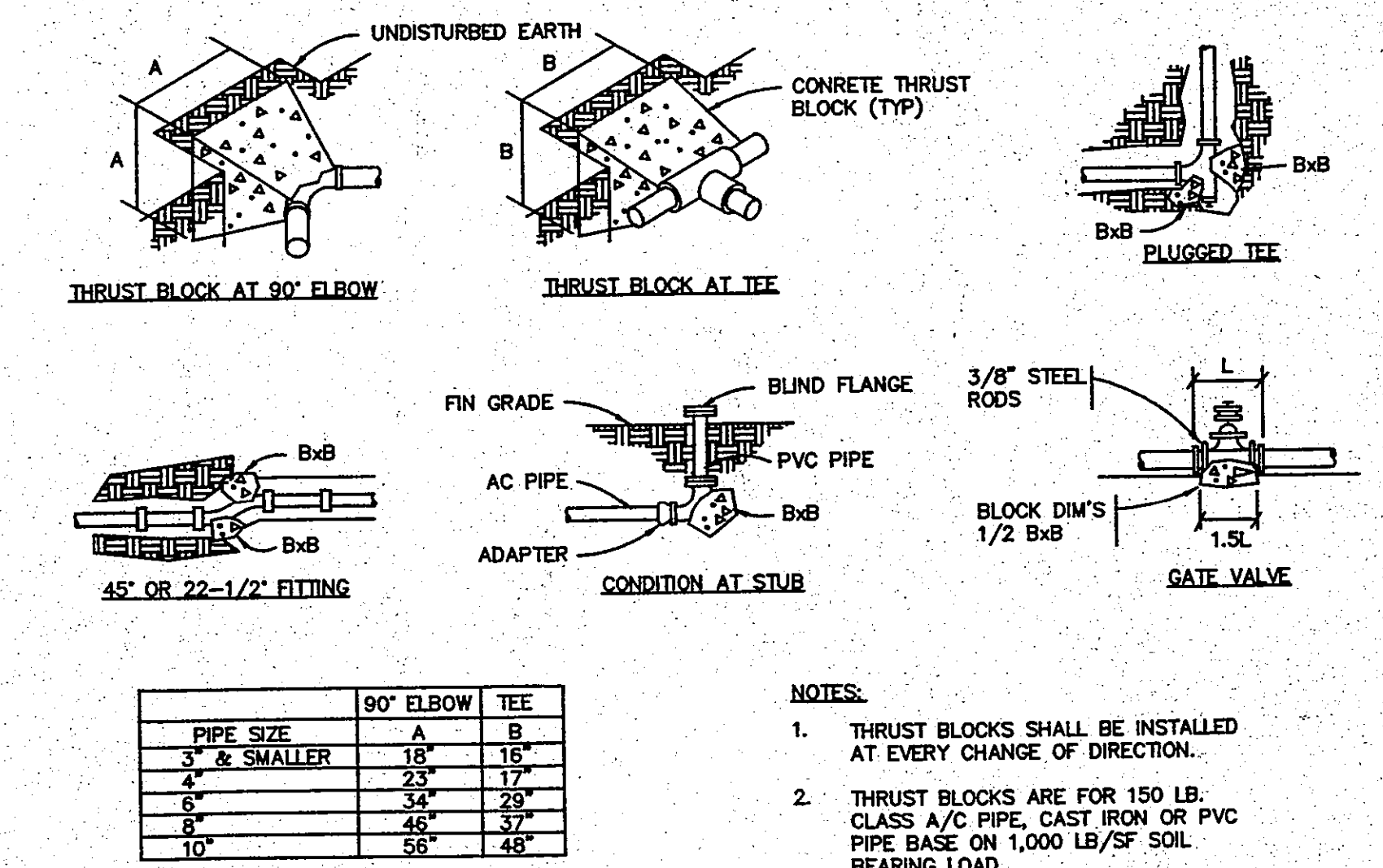
CIRC. PUMP WIRING DIAGRAM

SCALE NONE 4



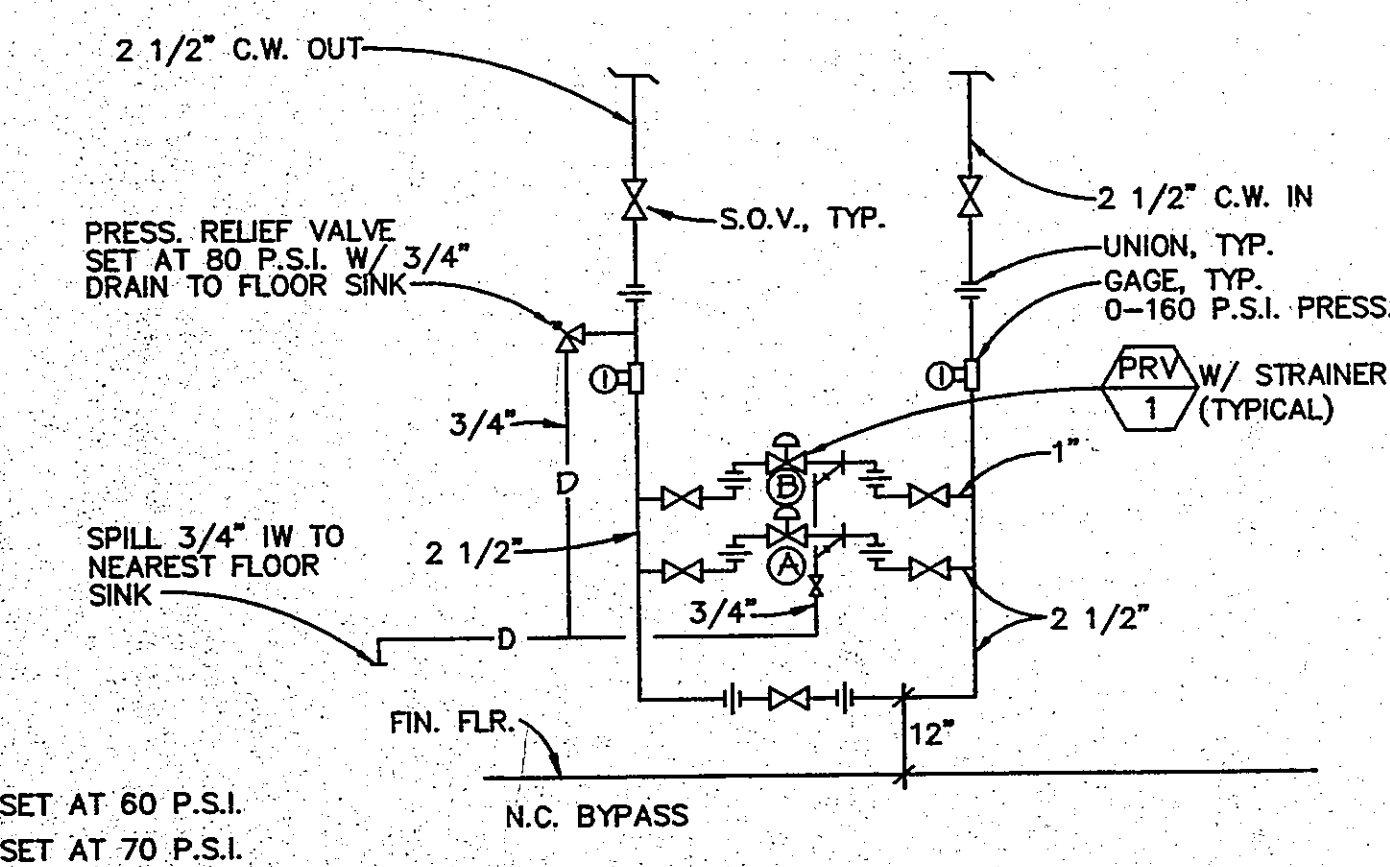
BUILDING GAS SUPPLY DETAIL

SCALE NONE 5



THRUST BLOCK DETAIL

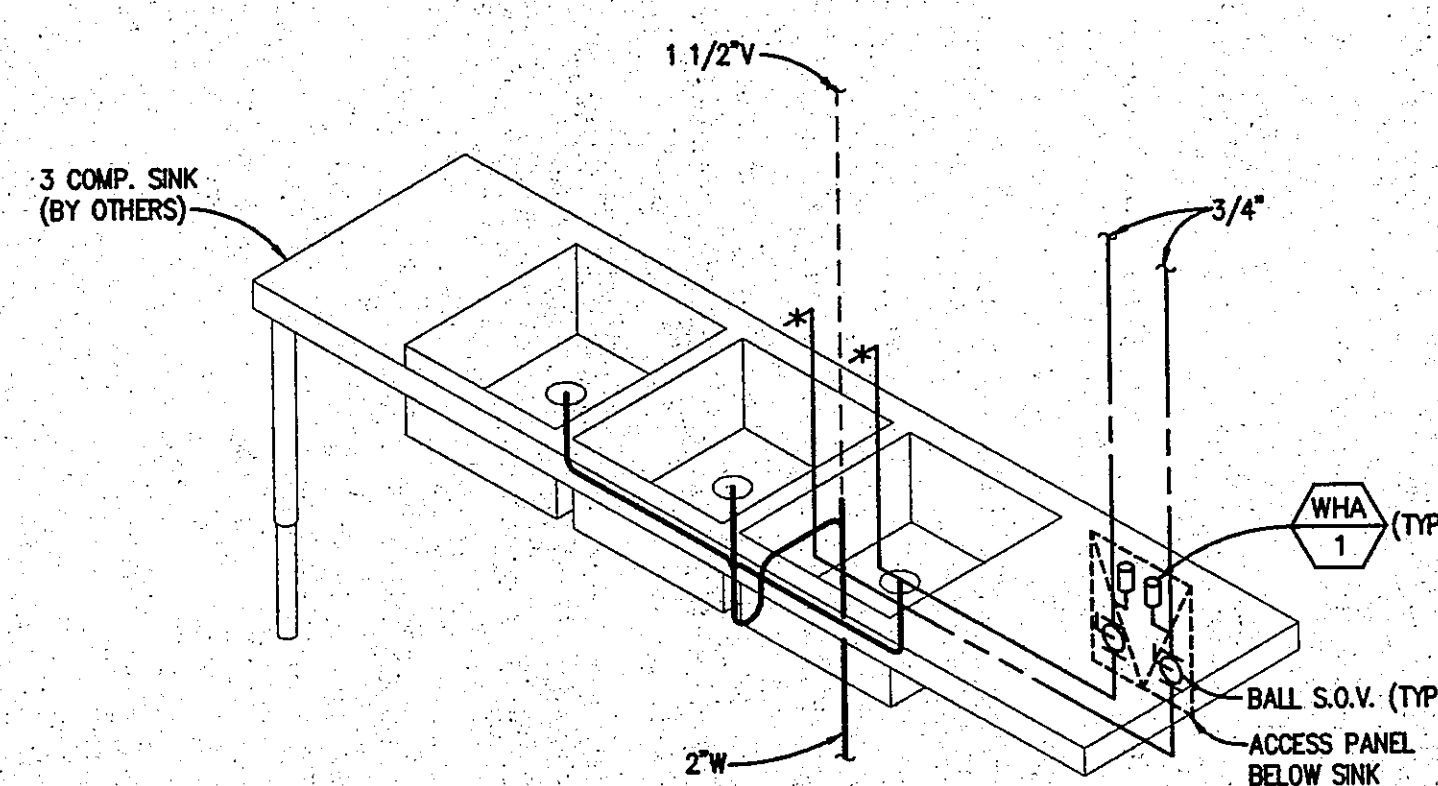
SCALE NONE 6



Ⓐ SET AT 60 P.S.I.
 Ⓑ SET AT 70 P.S.I.
NOTE:
 ANCHOR ENTIRE ASSEMBLY TO WALL ON UNISTRUT

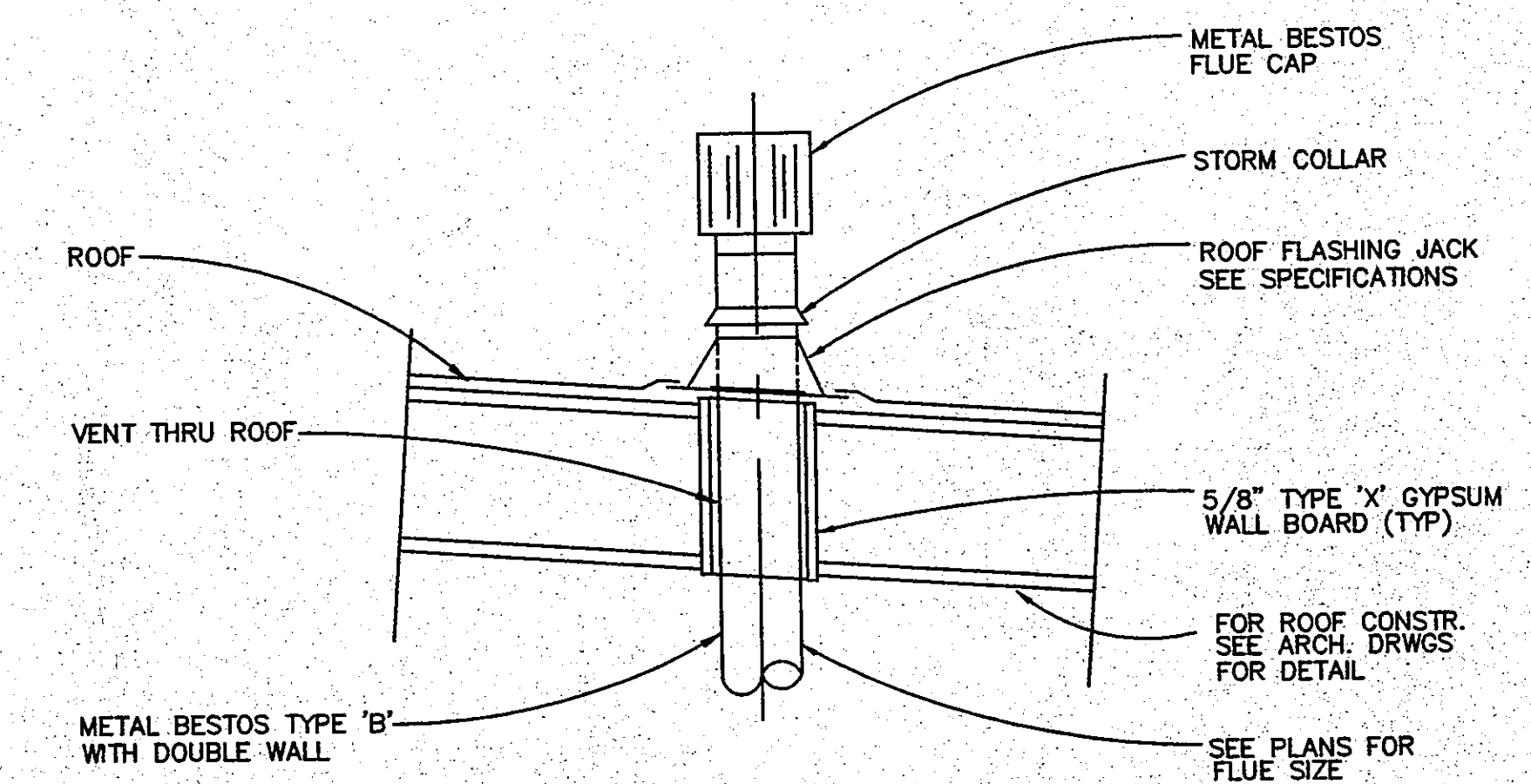
P.R.V. ASSEMBLY DETAIL

SCALE NONE 7



PRE-RINSE PIPING DETAIL

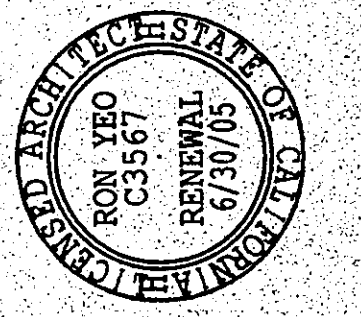
SCALE NONE 8



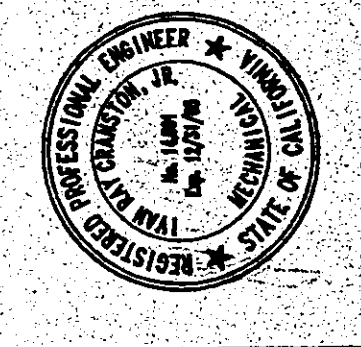
FLUE THRU ROOF DETAIL

SCALE NONE 9

RON VEC. FATA ARCHITECT, INC.
 500 JAS. WAY AVENUE, CORONA, CA 92625
 (714) 991-8111 FAX (714) 991-8149
 PATRICK WARR, AIA, PE, ASSOCIATE ARCHITECT



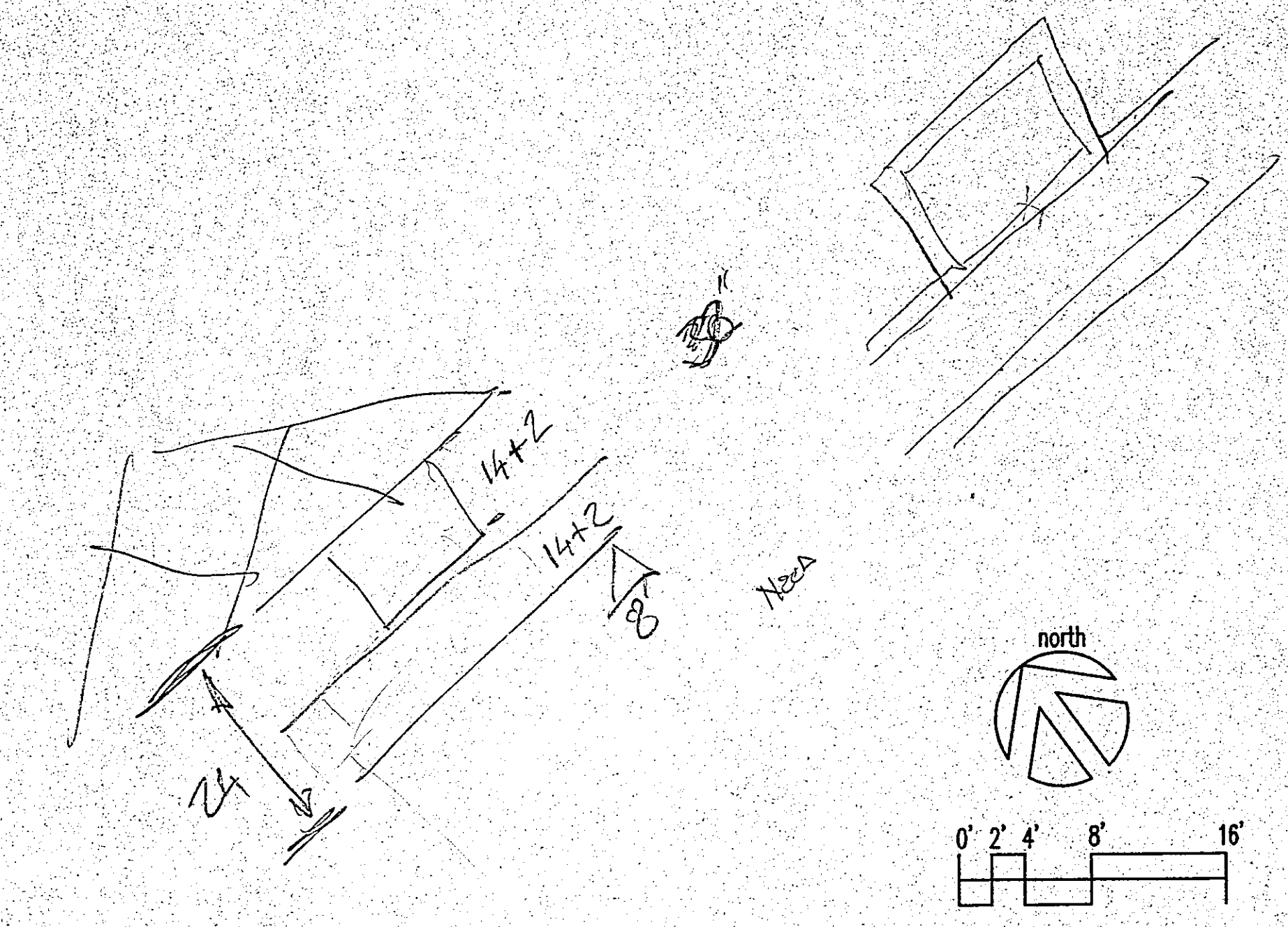
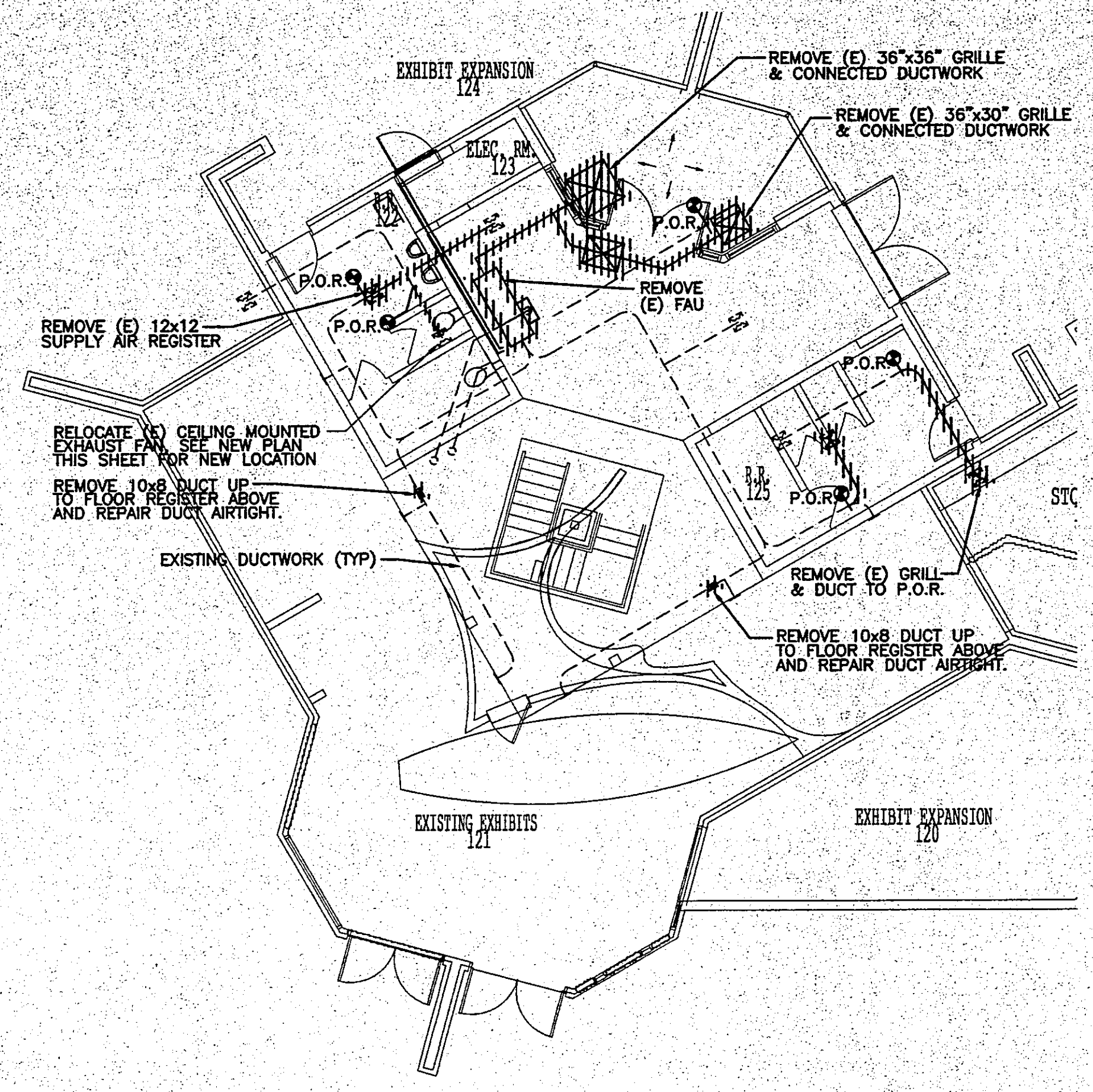
PLANS PREPARED BY:
F.T.A.
 FATA ARCHITECT, INC.
 500 JAS. WAY AVENUE, CORONA, CA 92625
 (714) 991-8111 FAX (714) 991-8149



POINT VICENTE INTERPRETIVE
CENTER EXPANSION
 31501 Palos Verdes Drive West
 Rancho Palos Verdes, CA

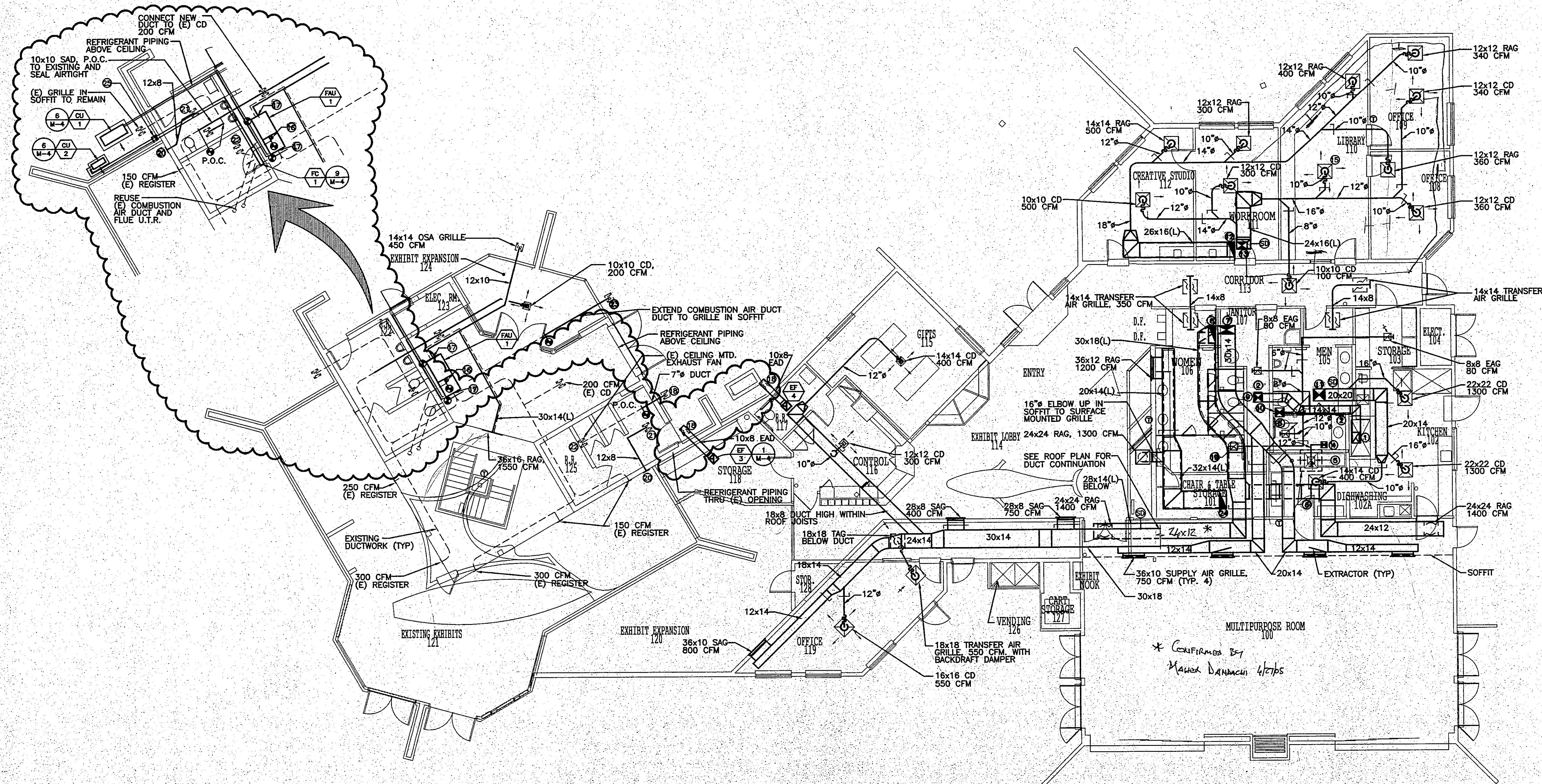
Plumbing Details
 REVISION DATE: 02-19-04

DATE	2/17/99
BY	None
CHKD	None
APP'D	None
JOB. NO.	97-123
SHEET	P-4
DATE	DEC 21 2004
OF 69 SHEETS	57



MECHANICAL DEMO PLAN

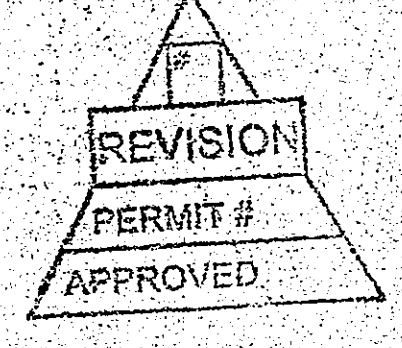
SCALE
1/8" = 1'-0" 1



- CONSTRUCTION NOTES**
- DUCT CONNECTION TO HOOD, TRANSITION AS REQUIRED. SEE DETAIL 2, SHEET M-4.
 - 12x12 ACCESS PANELS SHALL BE INSTALLED IN THE SIDE OF THE DUCT AT EACH CHANGE IN DIRECTION WITH SIZE AS INDICATED.
 - 12x12 EAG, 300 CFM
 - 10x10 EXHAUST DUCT UP TO EF-5
 - 10x10 EXHAUST AIR DUCT, TRANSITION TO OPENING AT HOOD
 - 36x36 VAPOR HOOD (TYPE II), 450 CFM
 - 30x14 (L) SUPPLY AIR DUCT UP TO AC-1
 - 30x12 (L) RETURN AIR DUCT UP TO AC-1
 - 14x14 EXHAUST DUCT UP TO EF-1, SEE DET. 2, SHEET M-4
 - 14x14 EXHAUST DUCT UP TO EF-2
 - 20x20 SUPPLY AIR DUCT UP TO MAU-1
 - 26x12 (L) RETURN AIR DUCT UP TO AC-2
 - 18x12 (L) SUPPLY AIR DUCT UP TO AC-2
 - NOT USED
 - 14x14 CD, 400 CFM
 - EXTEND (E) FLUE AT P.O.C. WITH NEW 6" CLASS "B" FLUE AND CONNECT TO NEW FAU.
 - FLEXIBLE CONNECTION, DURO-DYNE OR EQUAL. P.O.C. TO (E) SUPPLY AIR DUCT AND NEW RETURN AIR DUCT.
 - 10x10 GRILL IN SOFFIT
 - 12x12 CD, 350 CFM
 - 14"x10" SIDEWALL GRILLE
 - 12x12 TRANSFER AIR GRILLE
 - RELOCATED (E) CEILING MOUNTED EXHAUST FAN, CLEAN AND LUBRICATE. INTERLOCK FAN OPERATION WITH FAU-1.
 - 6x6 CORROSION RESISTANT SCREEN OF 1/4" WIRE MESH.
 - 30x12 (L) RETURN AIR DUCT UP TO AC-3
 - PROVIDE 22 GA. SHEET METAL ENCLOSURE FOR REFRIGERANT PIPING UP WALL. PAINT PER ARCHITECTURAL SPECIFICATIONS. SEAL REFRIGERANT PIPING THRU WALL WATERIGHT.

- GENERAL SHEET NOTES**
- BALANCE ALL GRILLES AND REGISTERS TO INDICATED AIRFLOWS. ADD BALANCING DAMPERS TO EXISTING DUCTWORK AS NECESSARY.
 - ALL SUPPLY REGISTERS SHALL BE WITH 45° SPREAD ANGLES UNLESS OTHERWISE INDICATED.

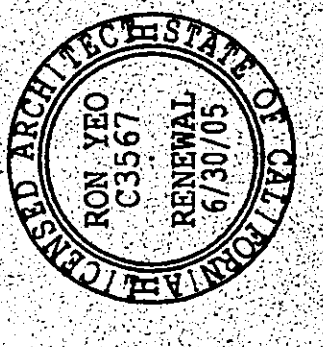
APPROVALS
Architect



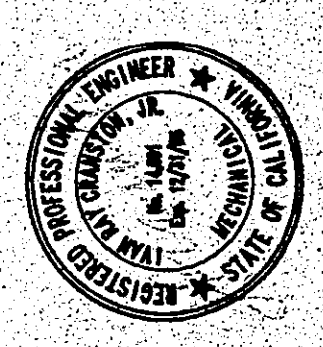
SCALE
1/8" = 1'-0" 2

MECHANICAL FLOOR PLAN

RON YEO, FALA ARCHITECT, INC.
500 JOSHUA AVENUE, SUITE 200
CANTON, MA 01921
TEL: 508-548-4449
FAX: 508-548-4449
PATTIUX MARY, AIA, PE, ASSOCIATE ARCHITECT



FTA
FACILITY TECHNOLOGY ASSOCIATES
1000 WASHINGTON STREET, SUITE 200
BOSTON, MA 02111
TEL: 617-552-7777
FAX: 617-552-7778



POINT VICENTE INTERPRETIVE
CENTER EXPANSION
31501 Palms Verdes Drive, West
Kanchito Valdes Verdes, Ct

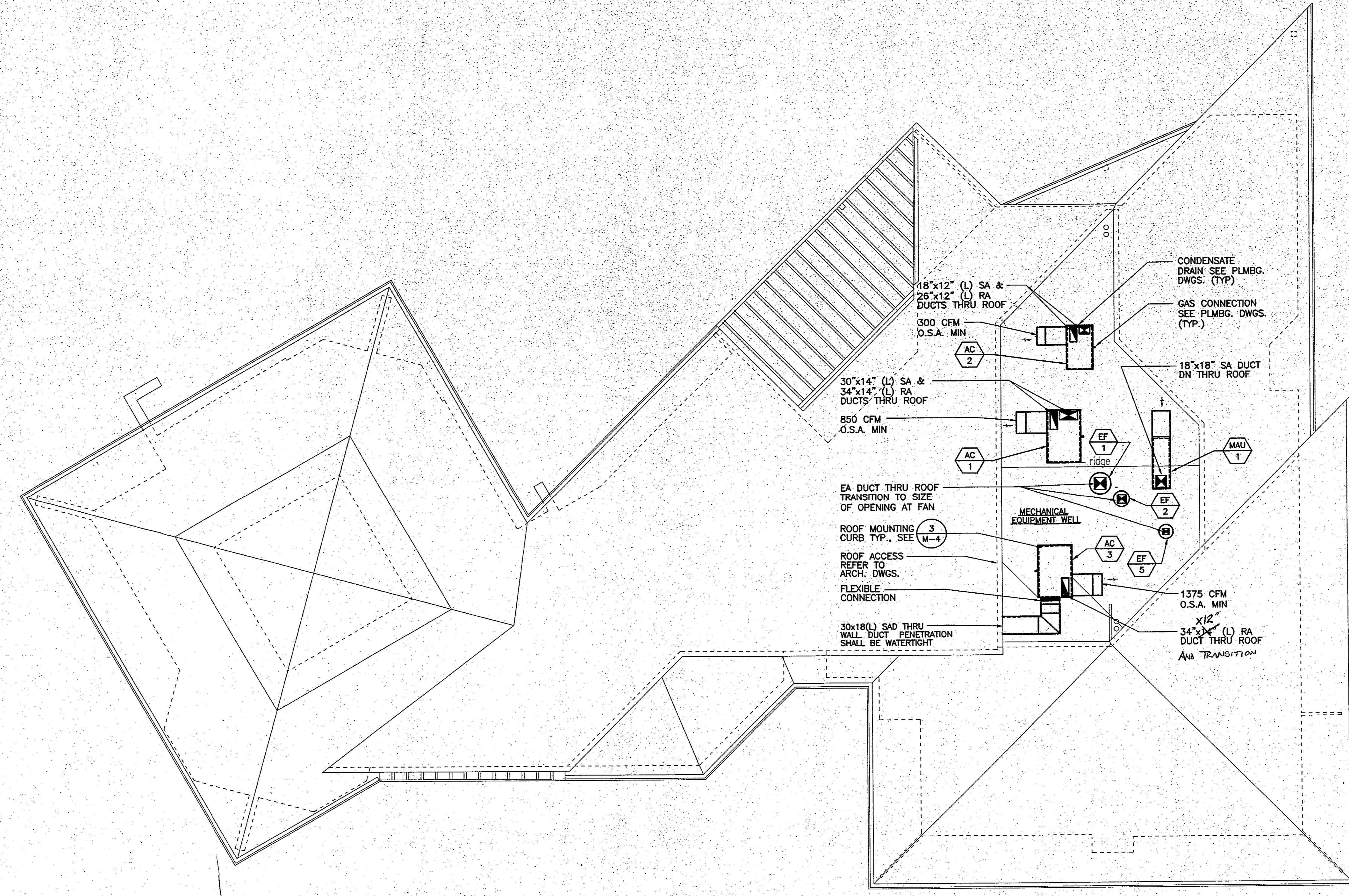
Mechanical
Floor Plan

DESIGN	DSM
CHECKED	LF
DATE	2/17/99
SCALE	1/8" = 1'-0"
JOB NO.	97-125
SHEET	CM
M-2	
59 OF 69 SHEETS	

11/10/03

5006

1/10/03

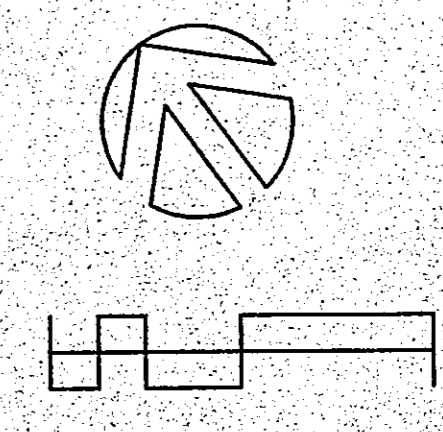


NOTES:

- COORDINATE WITH ARCHITECTURAL & STRUCTURAL DRAWINGS EXACT LOCATIONS OF ALL ROOF MOUNTED EQUIPMENT.
- PER CALIFORNIA TITLE-24 SECTION 121, THE VENTILATION RATES INDICATED ARE BASED UPON THE GREATER OF:
 - EXHAUST FLOWRATE + 5% OF THE SUPPLY AIR QUANTITY, OR
 - 15 CFM PER PERSON, OR
 - 0.15 CFM PER SQUARE FOOT.
- FOR EQUIPMENT ATTACHMENT TO ROOF STRUCTURE, SEE DETAILS 1, 2, AND 5, SHEET M-4.

APPROVALS
 Architect

REVISION
 PERMIT #
 APPROVED

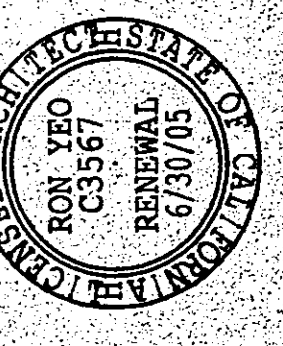


SCALE
 1/8" = 1'-0"

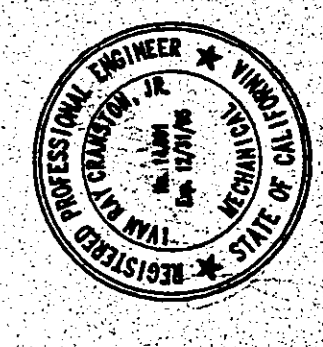
1

MECHANICAL ROOF PLAN

RON YEO, FTA ARCHITECT, INC.
 500 WASHINGTON AVENUE, CORONA, DEL. 19331
 CALIFORNIA LICENSE # 9265 P 94-644-811
 PATRICK WARR, AIA, PE, ASSOCIATE ARCHITECT



FTA
 ARCHITECTS
 1001 S. GARDEN ST. SUITE 200
 ANAHEIM, CA 92805
 PHONE: 714.772.0000
 FAX: 714.772.0001

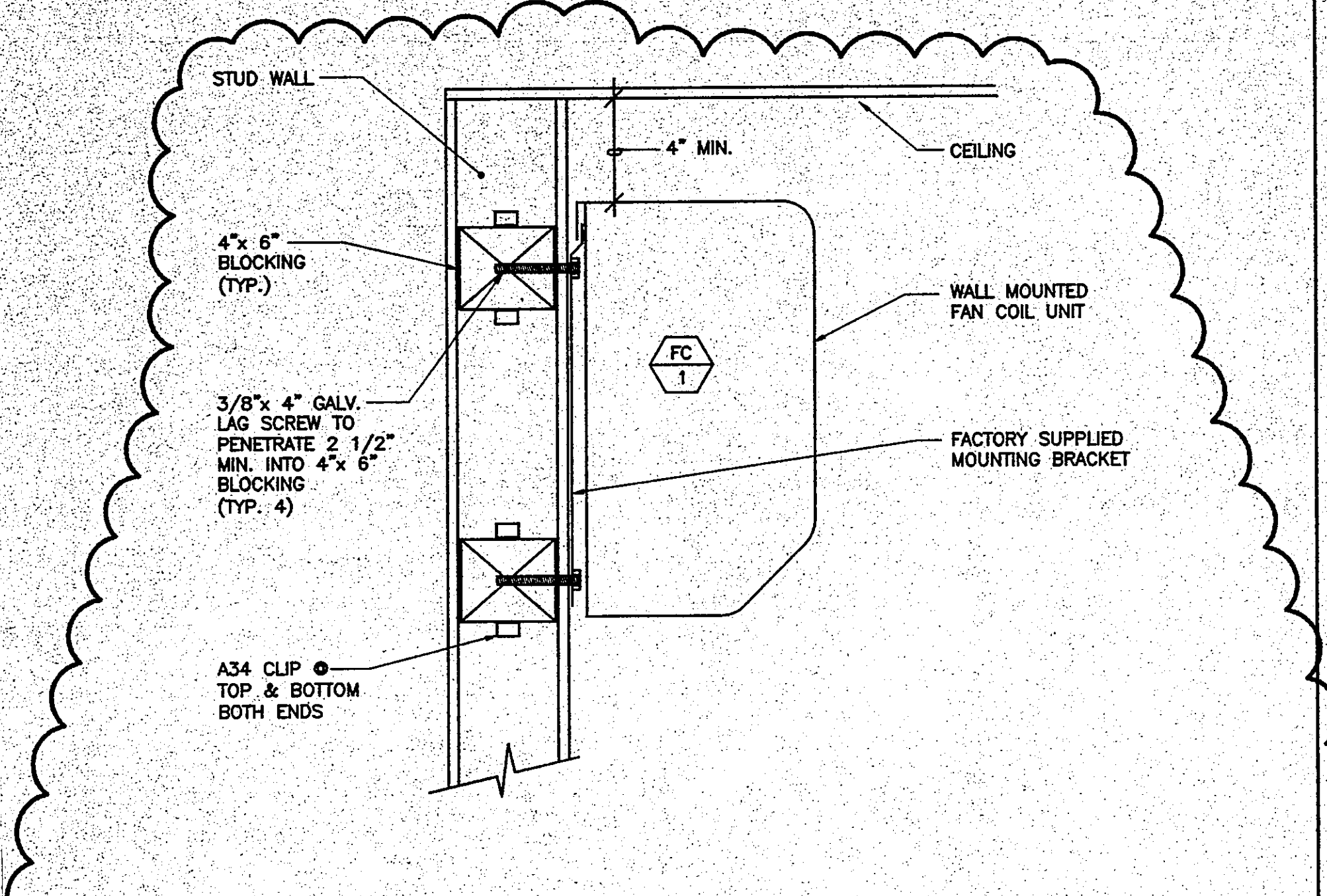


POINT VICENTE INTERPRETIVE
 CENTER EXPANSION
 31501 Palco Verde, Irvine, CA
 Ignacio Palos Verdes, CA

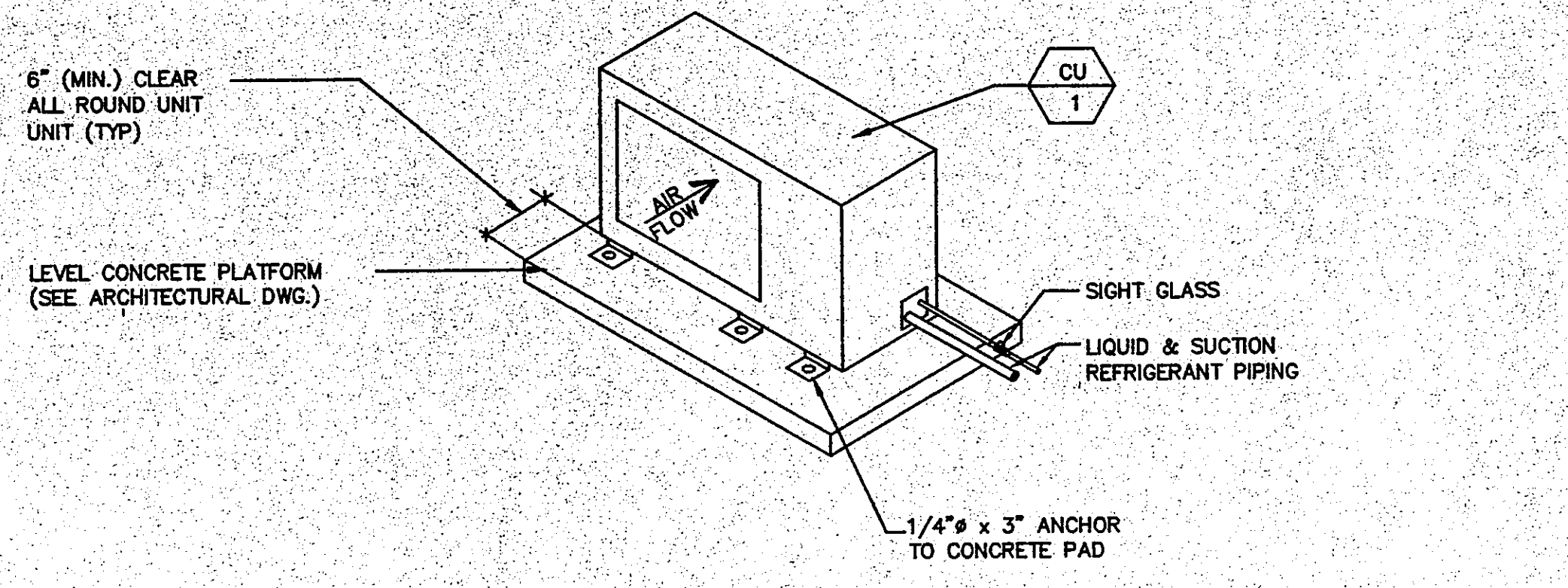
**Mechanical
 Roof Plan**
 REVISION SHEET: 02-09-04

DRAWN	DSM
CHECKED	
DATE	2/1/99
SCALE	1/8" = 1'-0"
SHEET #	97-123
SHEET	
DESIGNED BY	CBM
M-3	
DATE	02-09-04
60 OF 69 SHEETS	

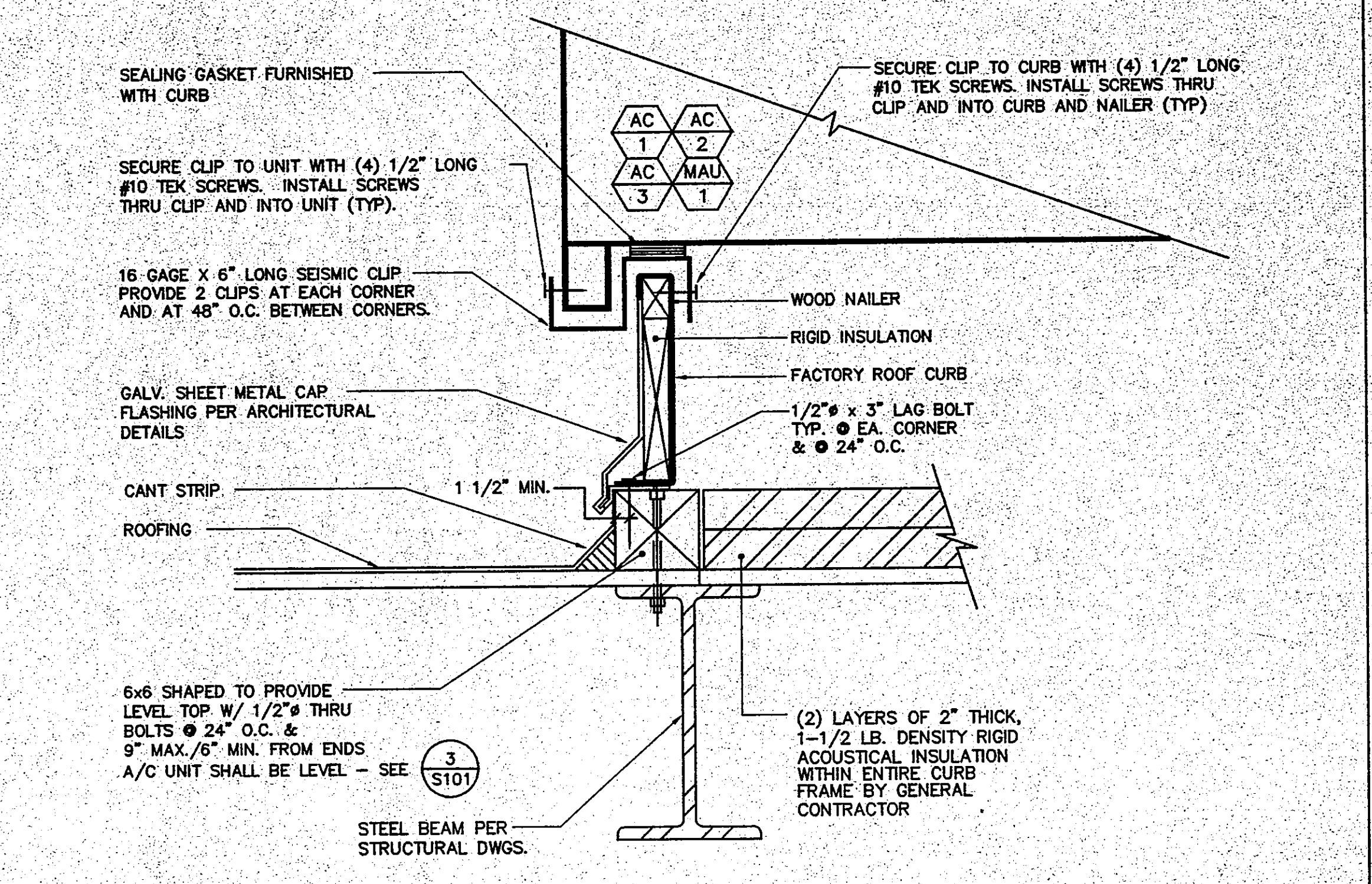
THIS DRAWING IS NOT COMPLETE UNLESS OTHERWISE COMMENTED FOR CONSTRUCTION BIDDING



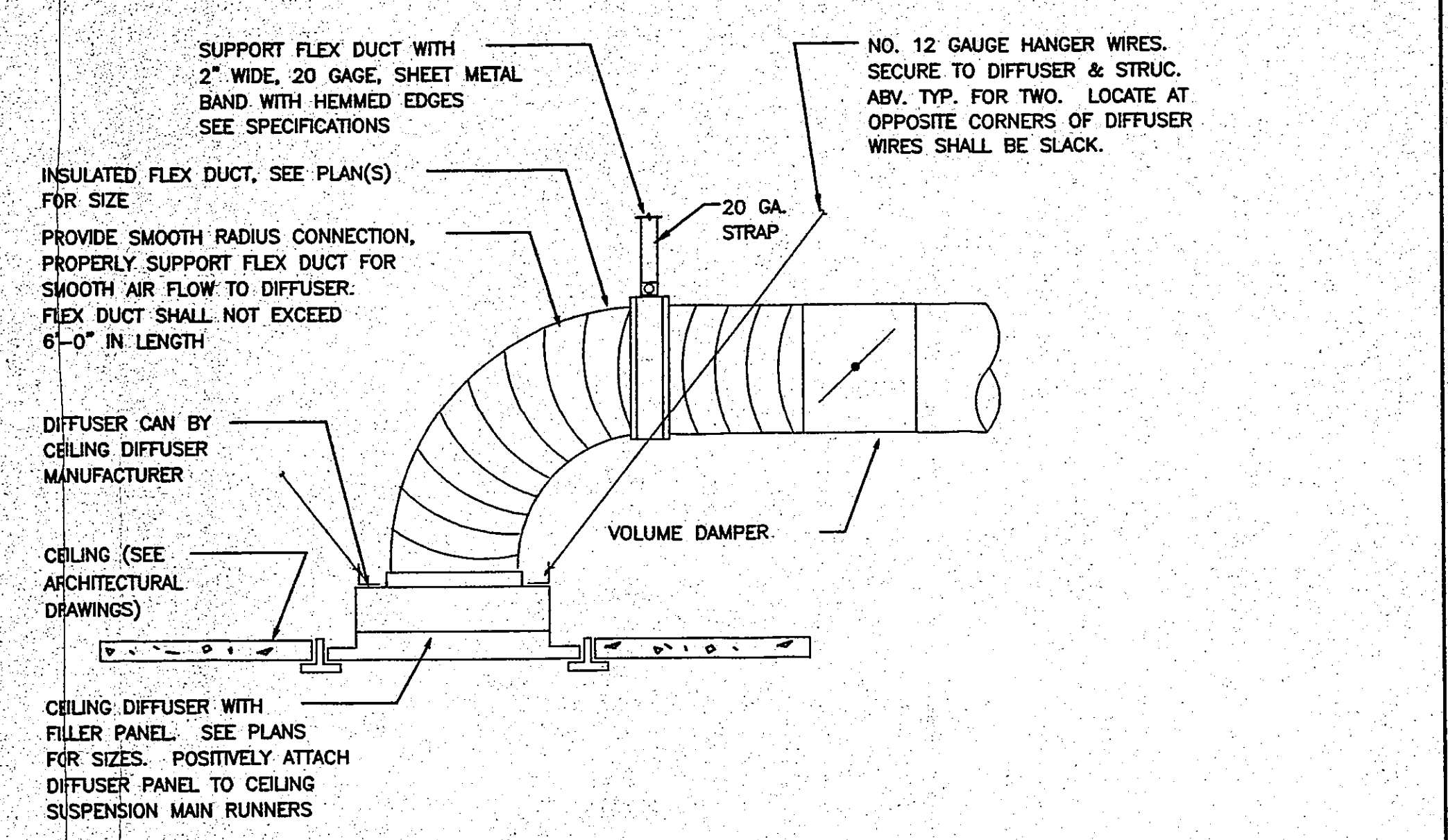
INDOOR FAN COIL UNIT MOUNTING DETAIL SCALE NONE **9**



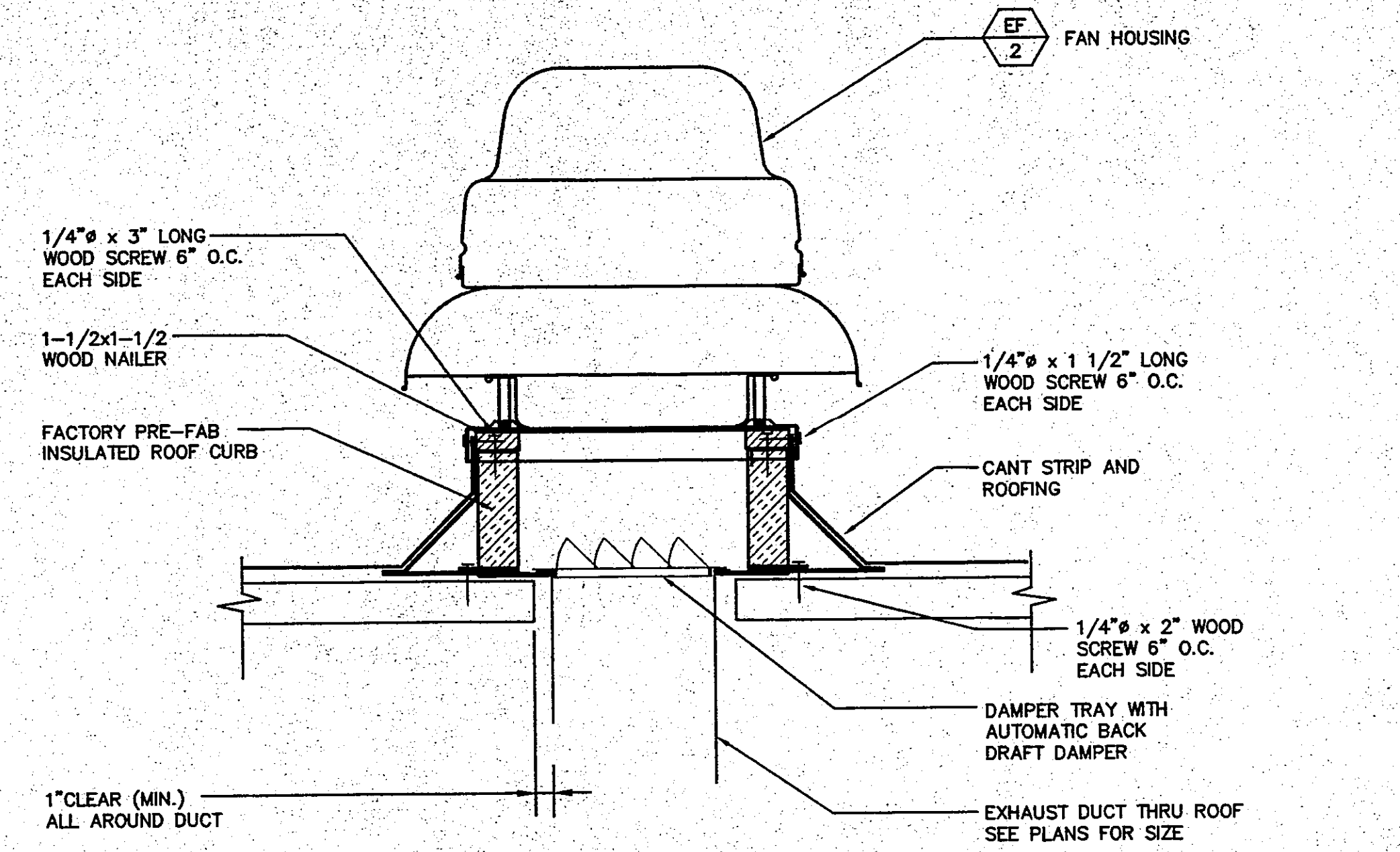
CONDENSING UNIT MOUNTING DETAIL SCALE NONE **6**



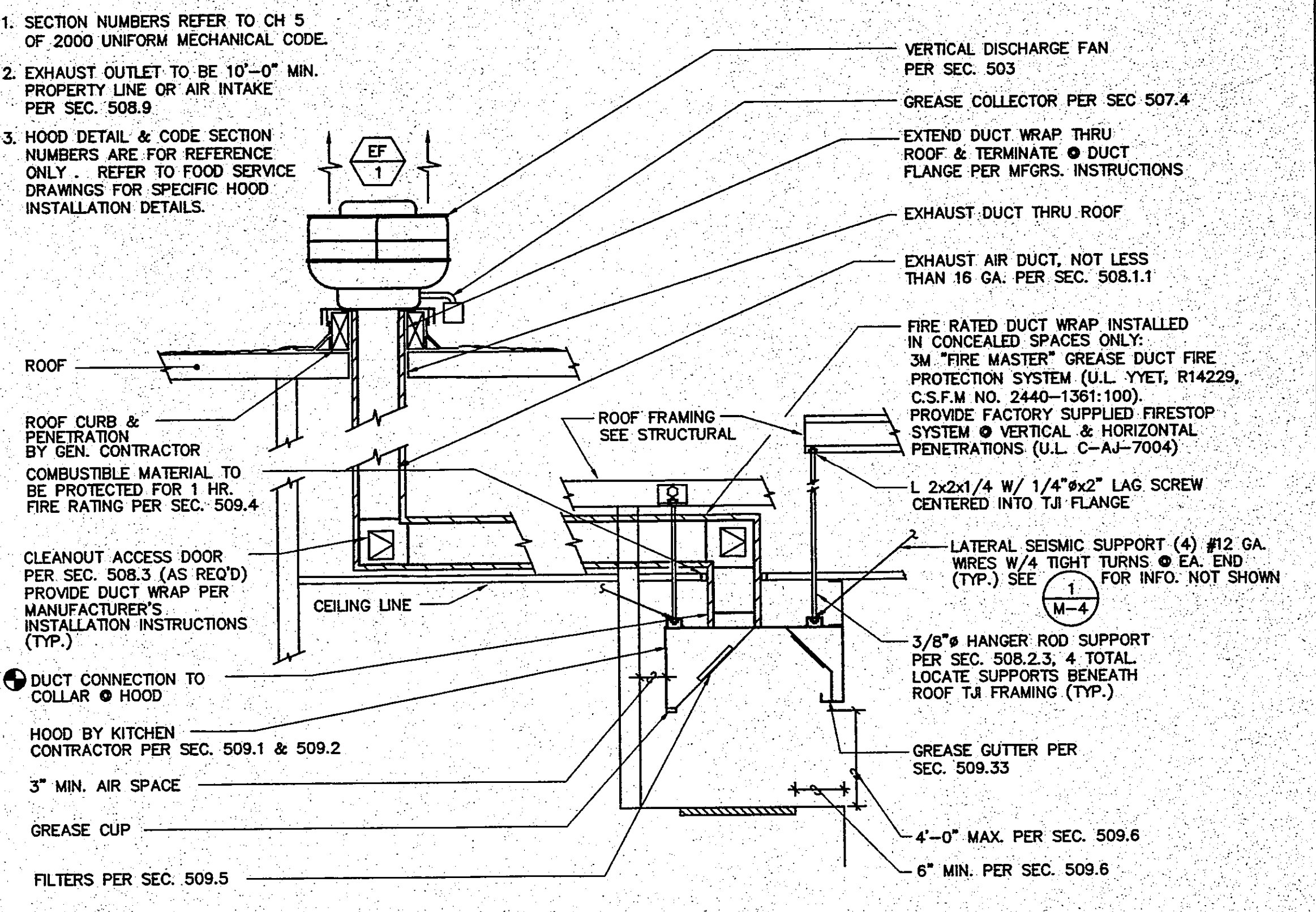
ROOF MOUNTED A/C UNIT SCALE NONE **3**



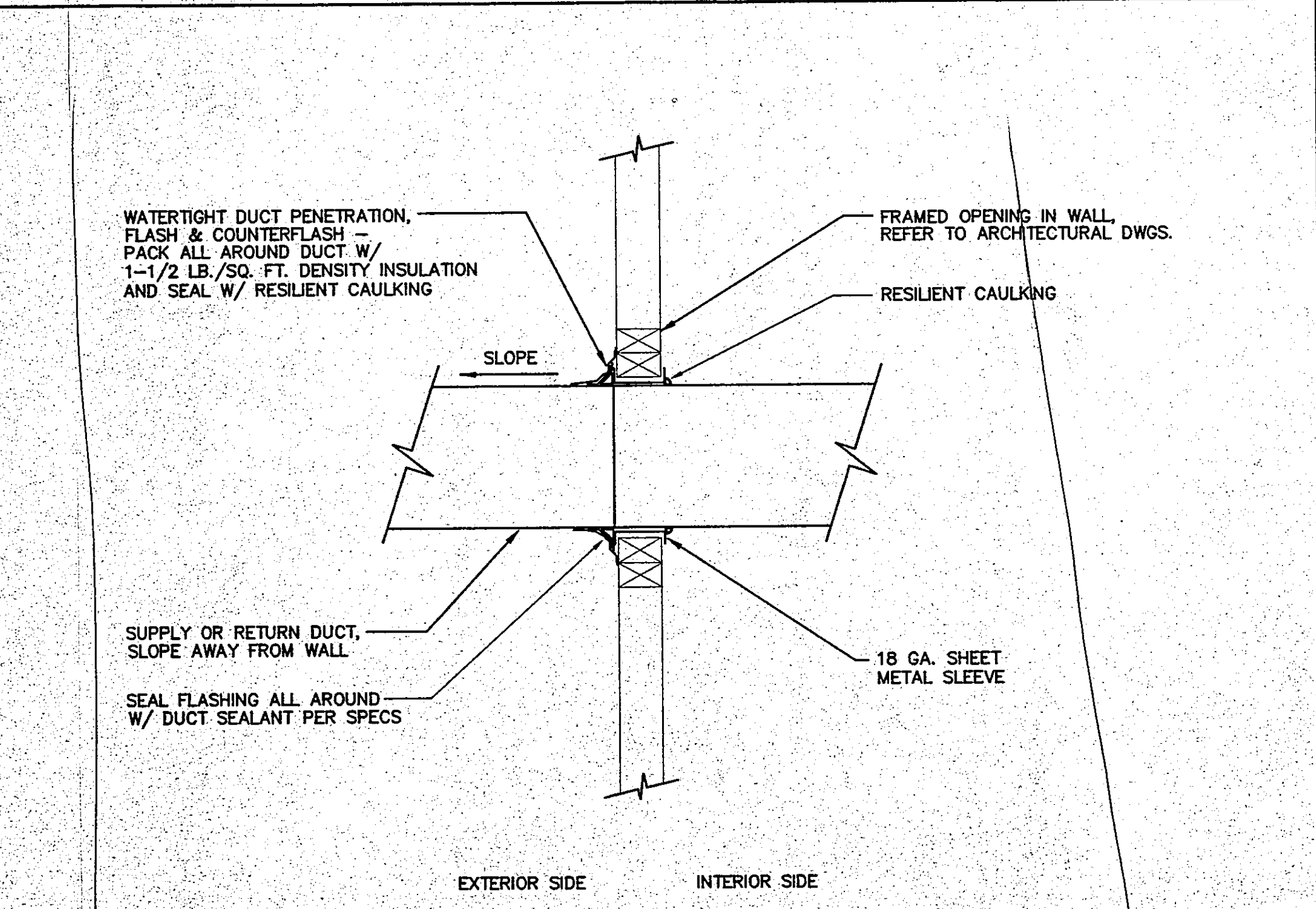
CEILING DIFFUSER MOUNTING DETAIL SCALE NONE **8**



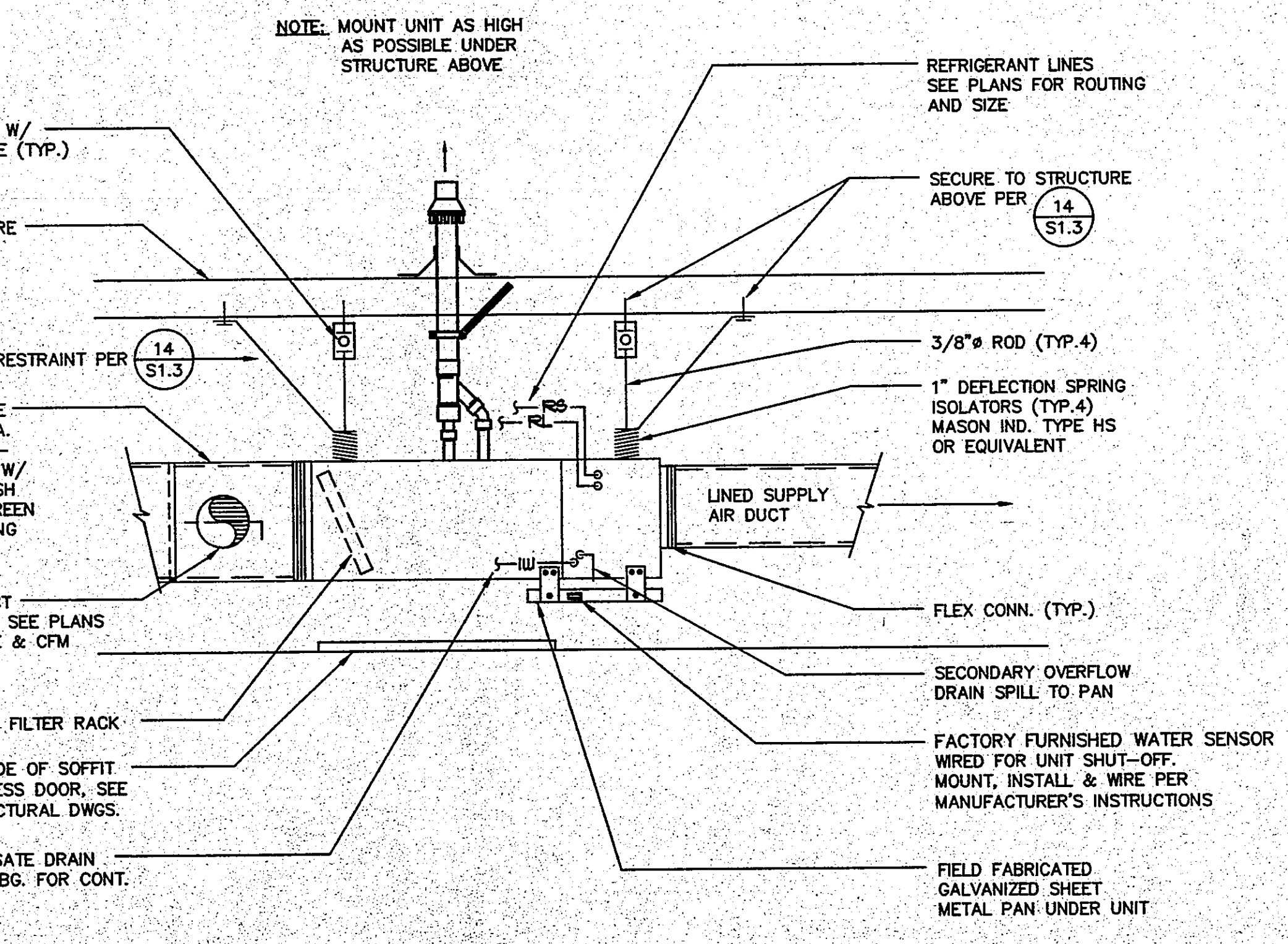
ROOF MOUNTED EXHAUST FAN DETAIL SCALE NONE **5**



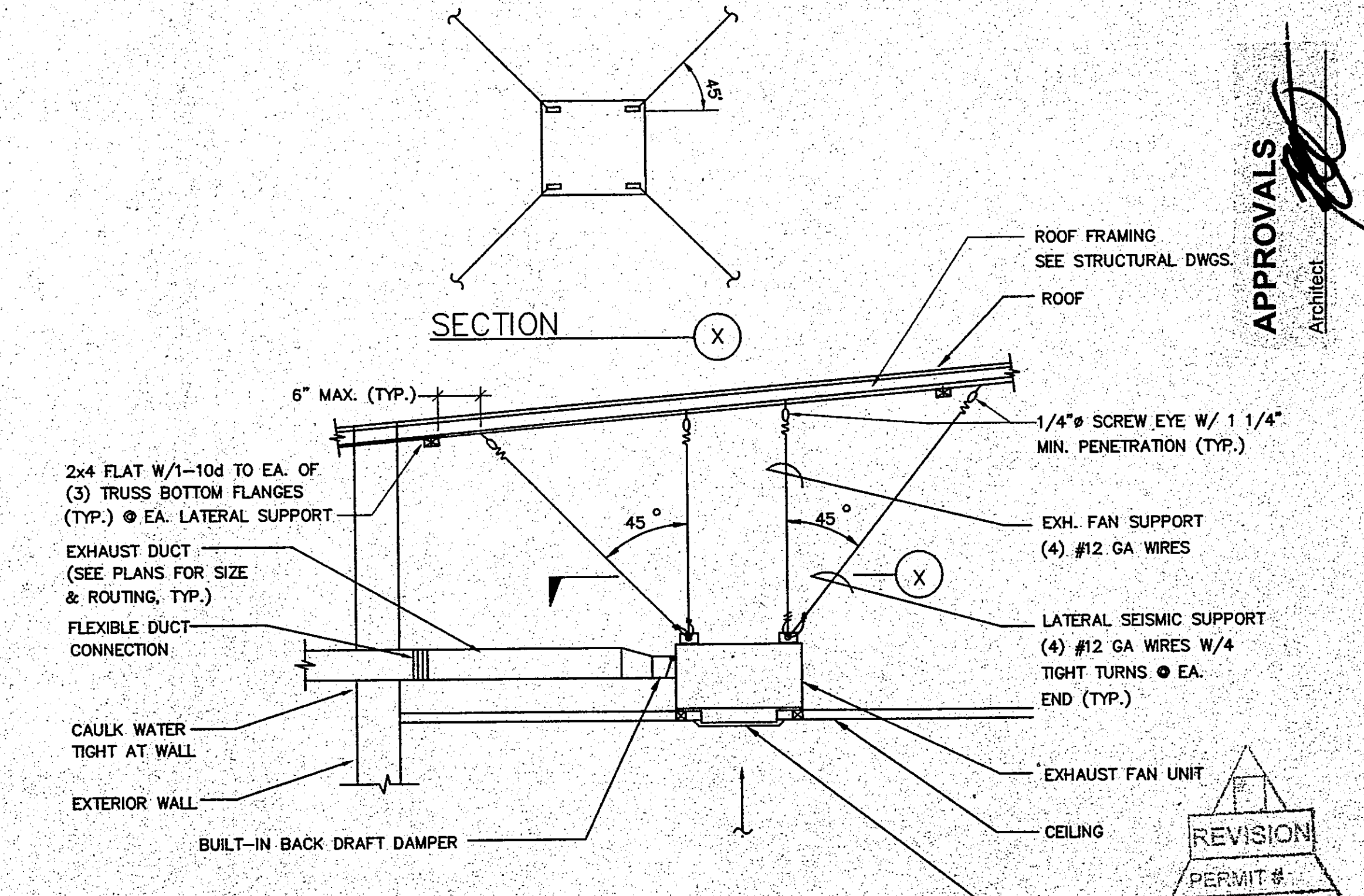
KITCHEN EXHAUST DUCT & HOOD DETAIL SCALE NONE **2**



DUCT THRU WALL DETAIL SCALE NONE **7**



HORIZONTAL FURNACE W/ COOLING COIL SCALE NONE **4**



CEILING MOUNTED EXHAUST FAN DETAIL SCALE NONE **1**

POINT VICENTE INTERPRETIVE CENTER EXPANSION
31501 Palos Verdes Drive West
Rancho Palos Verdes, CA

PLAN PREPARED BY:
ETA

APPROVALS
Architect

REVISION PERMIT# APPROVED

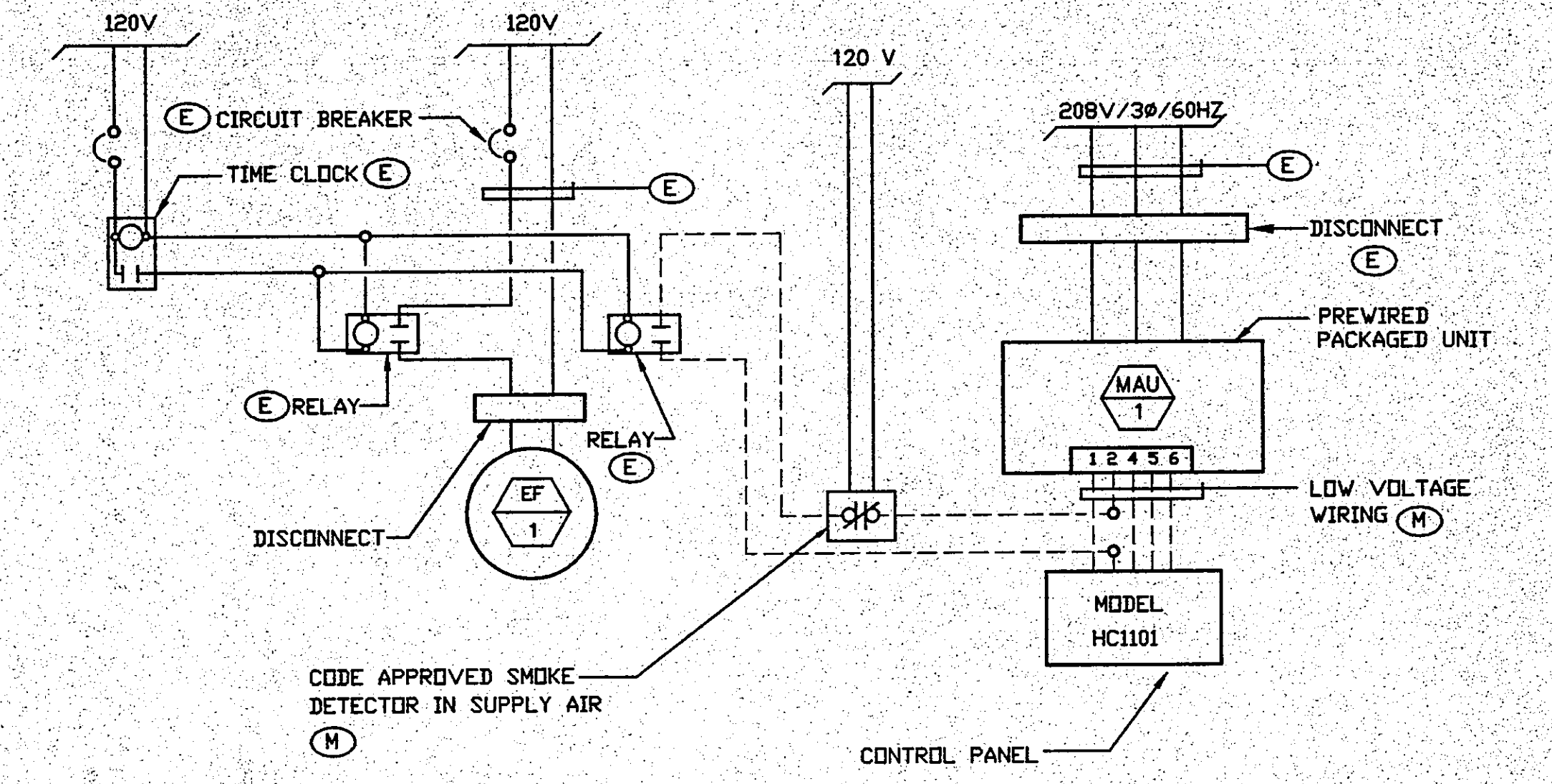
REVISION
PERMIT# APPROVED

REVISION
PERMIT# APPROVED

REVISION
PERMIT# APPROVED

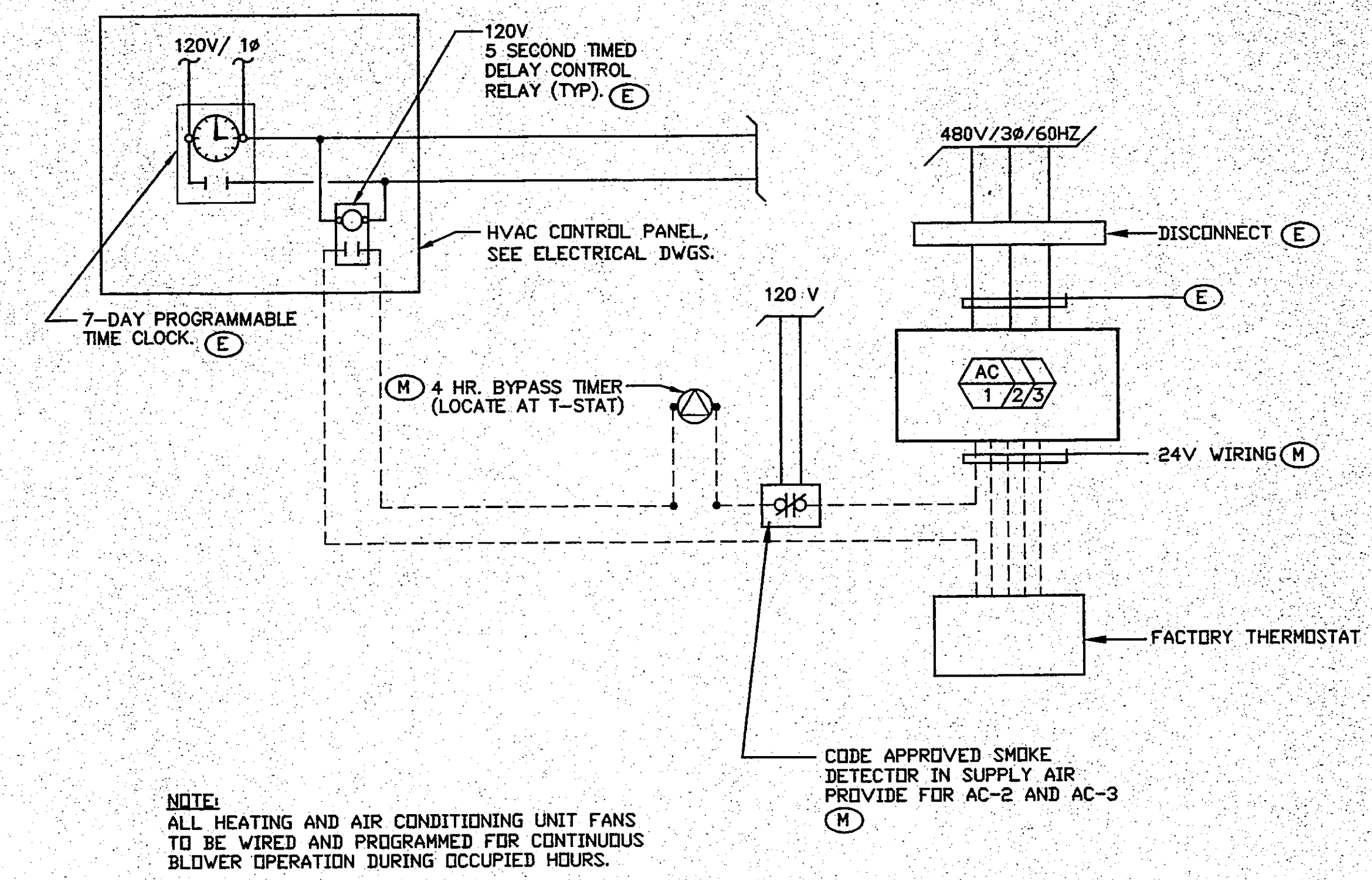
11/10/03

61 OF 69 SHEETS



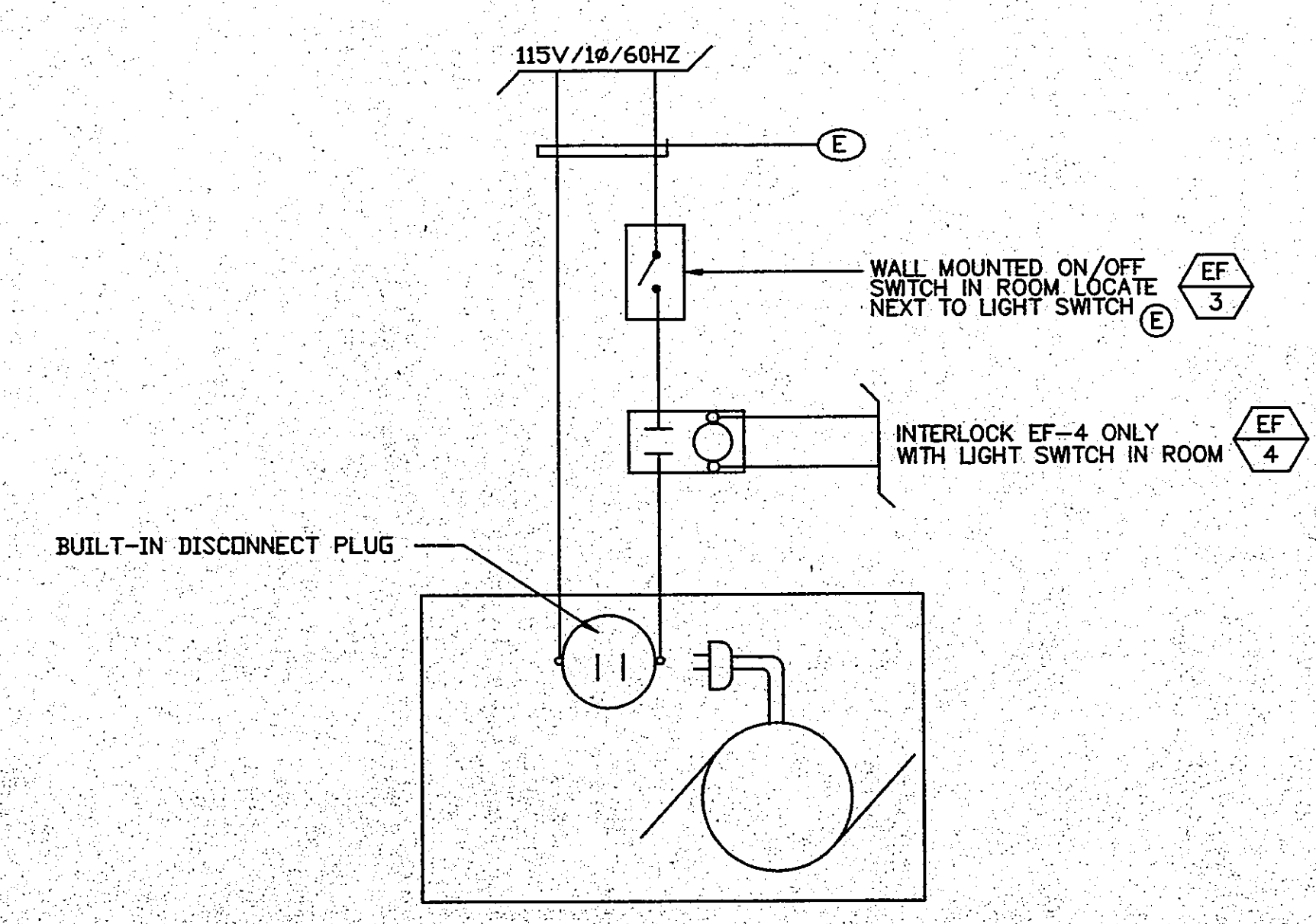
MAKE-UP AIR UNIT

SCALE NONE **3**



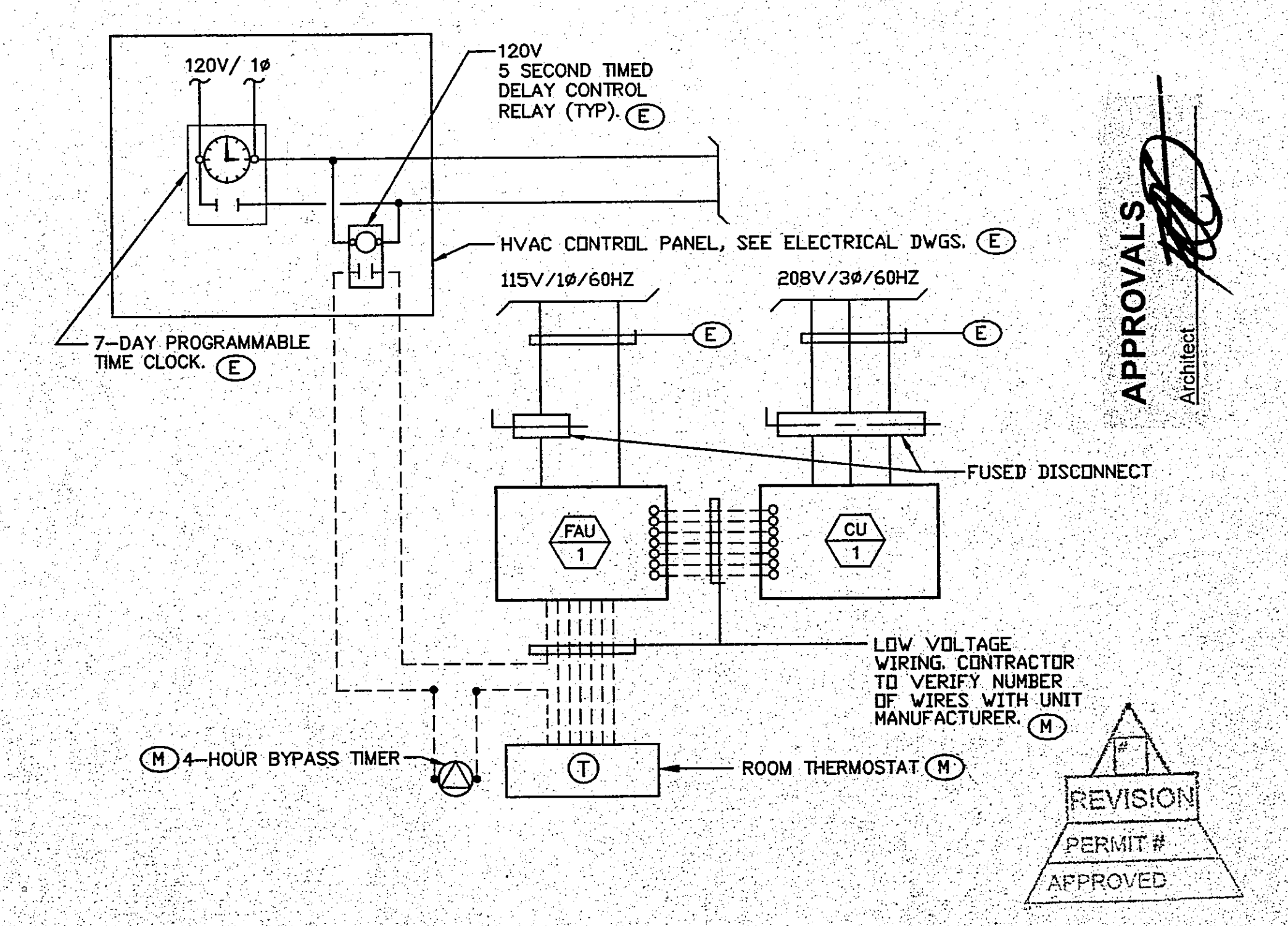
AC UNIT SCHEMATIC

SCALE NONE **2**



EXHAUST FAN SCHEMATIC

SCALE NONE **7**



SPLIT SYSTEM SCHEMATIC

SCALE NONE **1**

EF 2 INTERLOCK EXHAUST FAN 2 WITH AC UNIT 3 FOR CONTINUOUS OPERATION DURING NORMAL OCCUPIED HOURS. SEE DETAIL 6 THIS SHEET FOR SIMILAR EF-1 INTERLOCK.

APPROVALS
Architect

REVISION
PERMIT #
APPROVED

BON YEO, FTA ARCHITECT, INC.
300 JENNIFER AVENUE, SUITE 200
CALIFORNIA 92615 P: 949-448-3111 FAX: 949-448-4449
PATRICK WARR, AIA, P.E., ASSOCIATE ARCHITECT

STATE OF CALIFORNIA
BON YEO
C3567
RENEWAL
6/30/05

FTA
ARCHITECTURE
100 S. HENRY STREET
ANN ARBOR, MI 48106
TEL: 734-777-8700
FAX: 734-777-8700

REGISTERED PROFESSIONAL ENGINEER
MECHANICAL
STATE OF CALIFORNIA
NO. 45812

POINT VICENTE INTERPRETIVE
CENTER EXPANSION
31501 Palos Verdes Drive West
Rancho Palos Verdes, CA

Mechanical Schematics

DESIGN
CHECKED
DATE
2/17/99
SCALE
NONE
JOB NO.
97-123
SHEET

M-5
62 OF 69 SHEETS

11/10/03

CERTIFICATE OF COMPLIANCE - Envelope (part 1 of 2) ENV-1 page 1 of 5

Project Name: Point Vicente Interpretive Center Exp. IDate: 9/2/1998
Address: 31501 Palos Verdes Drive West Building Permit No.
Rancho Palos Verdes, CA Checked by / Date
Envelope Designer:
Documentation: F. T. Andrews, Inc. ICDMPLY 24 User 4443

GENERAL INFORMATION
Building Conditioned Floor Area: 8247 sf
Date of Plans: Building Type: Nonresidential Climate Zone: 6
Phase of Construction: New Construction Addition Alteration
Method of Envelope Compliance: Prescriptive - Overall Envelope

STATEMENT OF COMPLIANCE
This Certificate of Compliance lists the Building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building envelope requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR
David Mitchell (Signature) (Date)
(714) 772-9193

The Principal Envelope Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application.

Please check one:
I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am a civil engineer or architect.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 5537.2 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am a licensed contractor preparing documents for work that I have contracted to perform.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and for the following reason:

PRINCIPAL ENVELOPE DESIGNER (Signature) (Lic #) (Date)

ENVELOPE MANDATORY MEASURES
Indicate location on plans of Note Block for Mandatory Measures:

CERTIFICATE OF COMPLIANCE - Envelope (part 2 of 2) ENV-1 page 2 of 5

Project Name: Point Vicente Interpretive Center Exp. IDate: 9/2/1998
Documentation: F. T. Andrews, Inc. ICDMPLY 24 User 4443

OPAQUE SURFACES
Table with columns: Assembly Name, Const Type, Location/Comments, Note to Field
R-13 Wall (W, 13, 2x4, 16) Wood
R-19 Roof (R, 19, 2x4, 16) Wood

FENESTRATION
Table with columns: Orient, Panes, Frame Type, Exterior Shade, SH, Glazing Type
Front (ND) 1 Wood None N Single Clear Default(N)
Front (NE) 1 Wood None Y Single Clear Default(N)

CERTIFICATE OF COMPLIANCE - Mechanical (part 1 of 3) MECH-1 page 3 of 5

Project Name: Point Vicente Interpretive Center Exp. IDate: 9/2/1998
Address: 31501 Palos Verdes Drive West Building Permit No.
Rancho Palos Verdes, CA Checked by / Date
Mechanical Designer:
Documentation: F. T. Andrews, Inc. ICDMPLY 24 User 4443

GENERAL INFORMATION
Building Conditioned Floor Area: 8247 sf
Date of Plans: Building Type: Nonresidential Climate Zone: 6
Phase of Construction: New Construction Addition Alteration
Method of Mechanical Compliance: Prescriptive
Proof of Envelope Compliance: Previous Permit Compliance Attached

STATEMENT OF COMPLIANCE
This Certificate of Compliance lists the Building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building mechanical requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR
David Mitchell (Signature) (Date)
(714) 772-9193

The Principal Mechanical Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application.

Please check one:
I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am a civil engineer, mechanical engineer, or architect.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 5537.2 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am a licensed contractor preparing documents for work that I have contracted to perform.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and for the following reason:

PRINCIPAL MECHANICAL DESIGNER (Signature) (Lic #) (Date)

MECHANICAL MANDATORY MEASURES
Indicate location on plans of Note Block for Mandatory Measures:

CERTIFICATE OF COMPLIANCE - Mechanical (part 2 of 3) MECH-1 page 4 of 5

Project Name: Point Vicente Interpretive Center Exp. IDate: 9/2/1998
Documentation: F. T. Andrews, Inc. ICDMPLY 24 User 4443

SYSTEM FEATURES
Table with columns: System Name, Note to Field

Table with columns: System Name, Note to Field
System Name: AC-1/AC-3, AC-2
Time Control: S, S
Setback Control: Both, Both

Table with columns: System Name, Note to Field
System Name: CU-1/FC-1, MAU-1
Time Control: Both, S
Setback Control: Both, Both

Code Tables
Table with columns: Code Tables, Note to Field

CERTIFICATE OF COMPLIANCE - Mechanical (part 3 of 3) MECH-1 page 5 of 5

Project Name: Point Vicente Interpretive Center Exp. IDate: 9/2/1998
Documentation: F. T. Andrews, Inc. ICDMPLY 24 User 4443

DUCT INSULATION
Table with columns: System Name, Type, Duct Location, Duct Tape Allowed, Insul R-Val, Note to Field

PIPE INSULATION
Table with columns: System Name, Pipe Type, Insul Required, Note to Field

NOTES TO FIELD - For Building Department Use Only

MECHANICAL MANDATORY MEASURES Part 1 of 2 MECH-MM

Table with columns: Description, Designer, Enforcement
111 Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.

MECHANICAL MANDATORY MEASURES Part 2 of 2 MECH-MM

Table with columns: Description, Designer, Enforcement
121(a) Controls shall be provided to allow outside air dampers or devices to be operated at the outdoor rates as specified on these plans.

NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE (TITLE 24, PART 6, CH 12)

BEFORE THE BUILDING MAY BE OCCUPIED, INSTALLATION CERTIFICATES FOR MANUFACTURED DEVICES REGULATED BY THE APPLIANCE STANDARDS OR PART 6, SHALL BE PASTED ADJACENT TO THE BUILDING PERMITS.

- 1) IDENTIFY FEATURES REQUIRED TO VERIFY COMPLIANCE WITH THE APPLIANCE STANDARDS AND PART 6.
2) INCLUDE A STATEMENT INDICATING THAT THE INSTALLED DEVICES CONFORM TO THE APPLIANCE STANDARDS AND PART 6 AND THE REQUIREMENTS FOR SUCH DEVICES GIVEN IN THE PLANS AND SPECIFICATIONS APPROVED BY THE LOCAL ENFORCEMENT AGENCY.
3) STATE THE BUILDING PERMIT NUMBER UNDER WHICH THE CONSTRUCTION OR INSTALLATION WAS PERFORMED. Sec. 10-103(a)3

THE BUILDER SHALL PROVIDE THE BUILDING OWNER, MANAGER, AND ORIGINAL OCCUPANTS THE FOLLOWING:

- 1) A LIST OF HEATING, COOLING, WATER HEATING, AND LIGHTING SYSTEMS & FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES CONSERVATION OR SOLAR DEVICES INSTALLED IN THE BUILDING, AND INSTRUCTIONS ON HOW TO USE THEM EFFICIENTLY.
2) REQUIRED ROUTING MAINTENANCE ACTION SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO IDENTIFYING THE MAINTENANCE MANUAL.
3) A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEM IS DESIGNED TO PROVIDE FOR EACH AREA. Sec. 10-103(b)

AFTER INSTALLING WALL, CEILING, OR FLOOR INSULATION, THE INSTALLER SHALL POST IN A CONSPICUOUS LOCATION IN THE BUILDING A CERTIFICATE SIGNED BY THE INSTALLER STATING THAT THE INSTALLATION IS CONSISTENT WITH THE PLANS AND THE REQUIREMENTS OF SECTION 10-103(a)2. A. THE CERTIFICATE SHALL ALSO STATE THE MANUFACTURER'S NAME AND MATERIAL IDENTIFICATION AND THE INSTALLED R-VALUE. Sec. 10-103(a)4

MANUFACTURED FENESTRATION PRODUCTS SHALL HAVE A PERMANENT LABEL LISTING THE U-VALUE, CERTIFYING ORGANIZATION, AND RATING PROCEDURES. Sec. 116(a)

SITE CONSTRUCTED DOORS, WINDOWS AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOOR AND FIRE DOORS). Sec. 116(b)

ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED. Sec. 117(a)

ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF SECTIONS 1712 AND 1713 OF THE UBC. Sec. 118(c)

OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE DURING PERIODS OF NON-USE OF THE AREAS SERVED BY EQUIPMENT. Sec. 122(f)

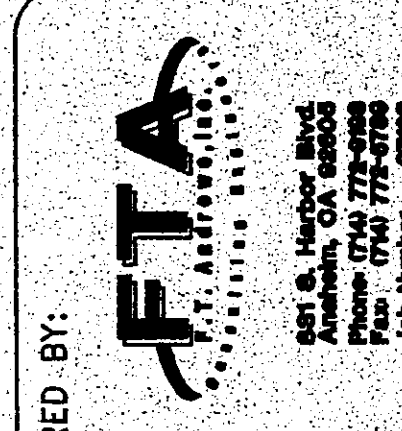
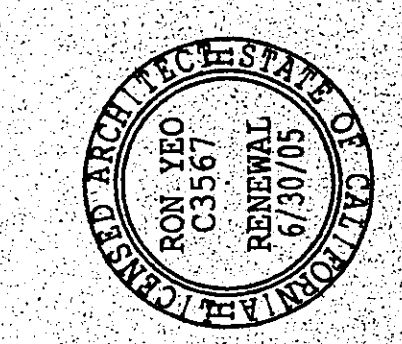
WATER HEATING SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENT FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTINGS FOR THE INTENDED USE AS LISTED IN TABLE 2, CHAPTER 54 OF THE 1987 ASHRAE HANDBOOK, HVAC SYSTEMS & APPLICATIONS VOLUME. Sec. 113(a)2

THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SEC. 121(b)2 SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE ONE-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED. Sec. 121(c)2

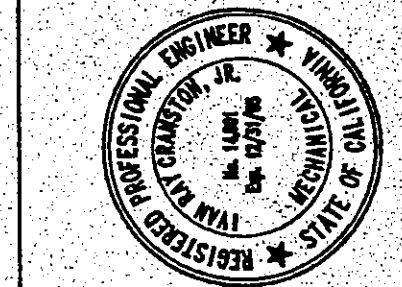
REVISION PERMIT # APPROVED
APPROVALS

51500e

POINT VICENTE INTERPRETIVE CENTER EXPANSION PROJECT
RANCHO PALOS VERDES, CALIFORNIA 90278-1225
F.T. ANDREWS, INC. ARCHITECTS
4443 ICDMPLY 24 USER 4443



PLANS PREPARED BY:



POINT VICENTE INTERPRETIVE CENTER EXPANSION PROJECT
31501 Palos Verdes Drive West
Rancho Palos Verdes, CA

California State Title-24 Compliance Documentation

DRYAN DSM CHECKED BY 2/17/99 STATE NONE JOB NO. 97-125 SUBBY CEM M-6 DATE 2/17/99 63 OF 69 SHEETS