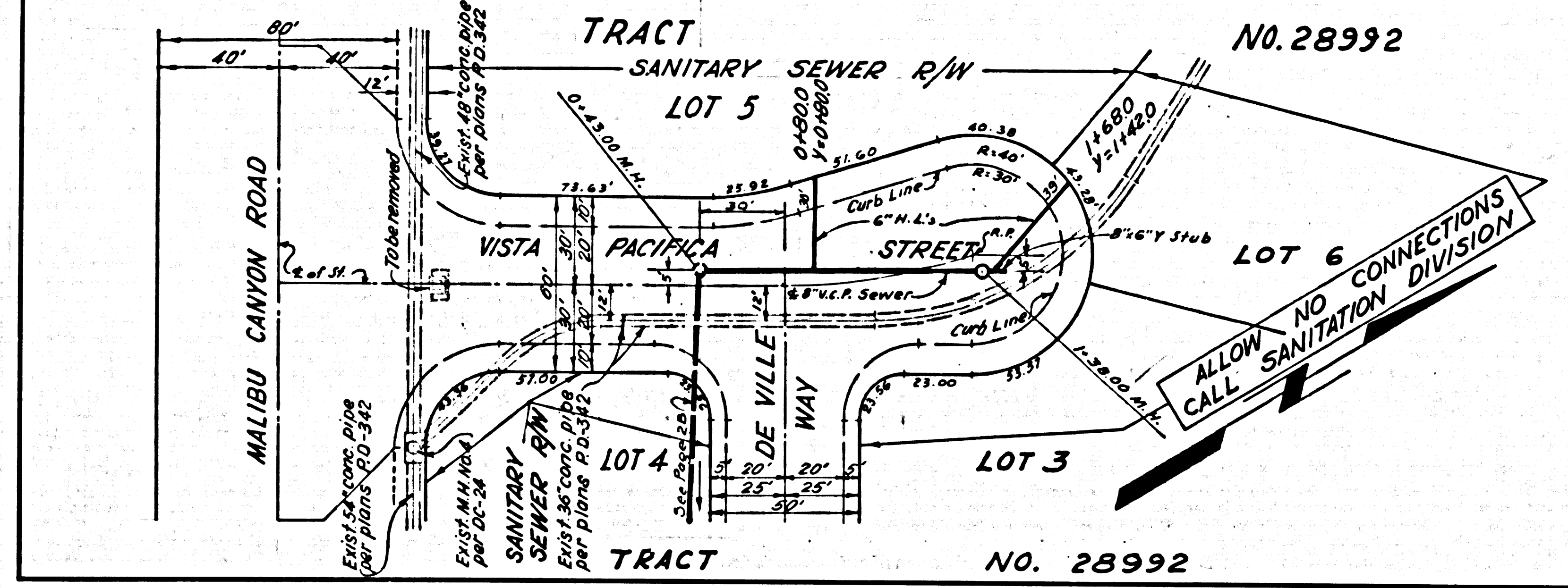
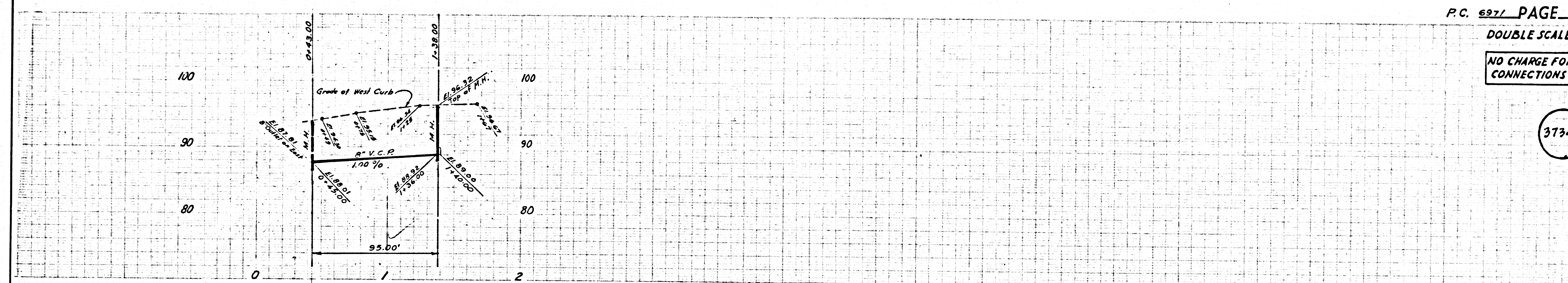


DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

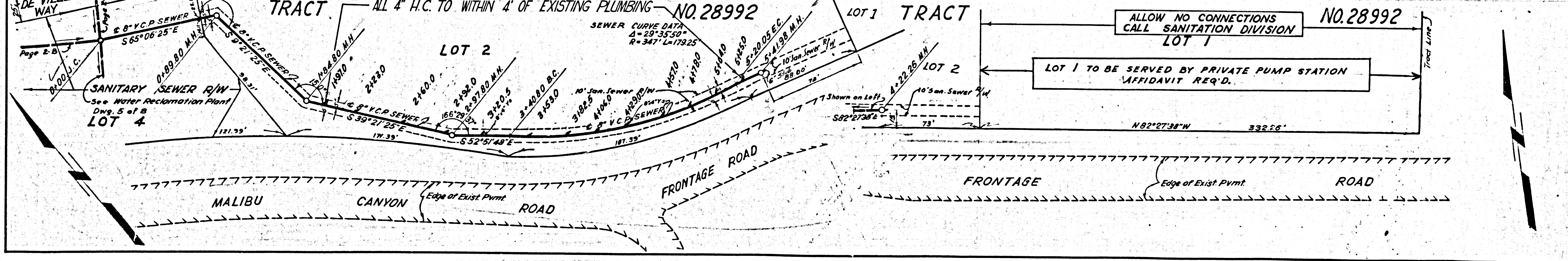
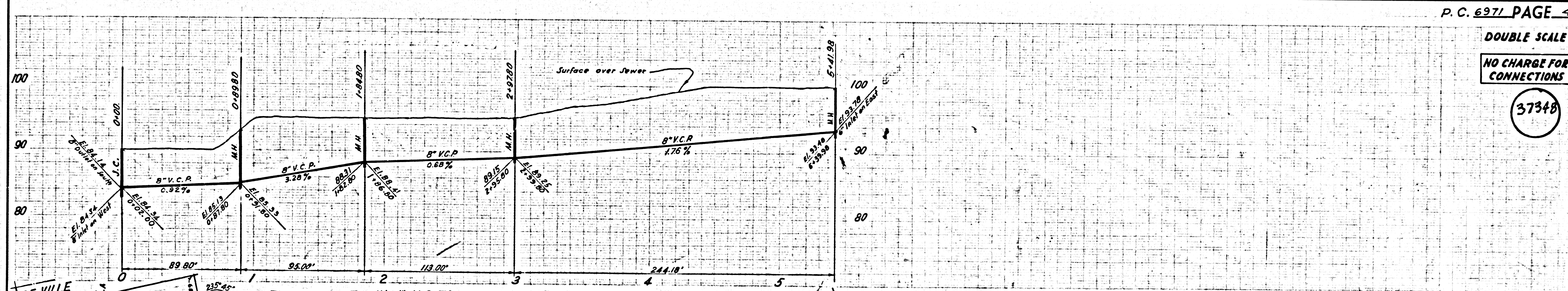
37347

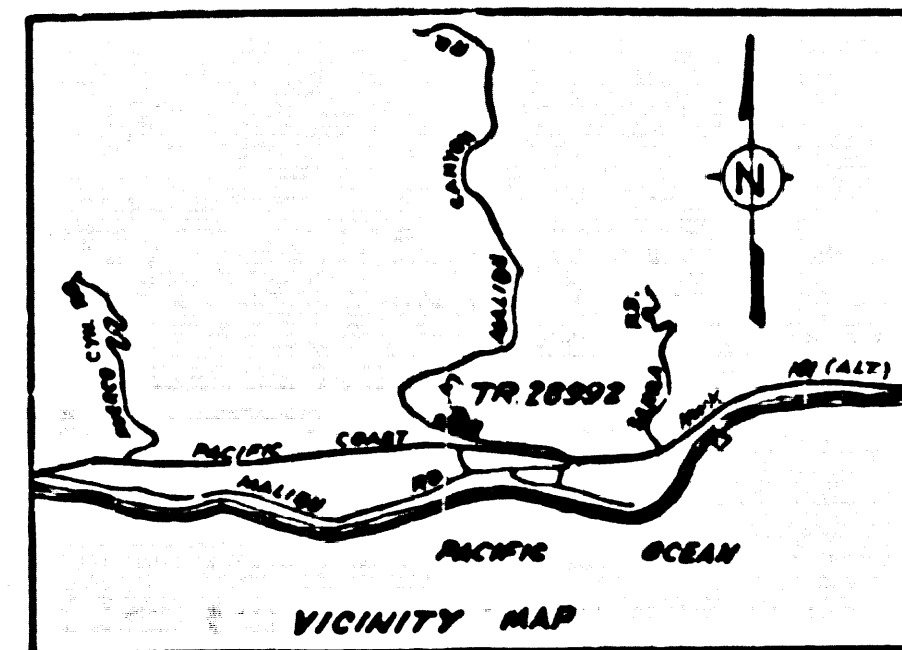


DOUBLE SCALE

NO CHARGE FOR CONNECTIONS

37348





LOS ANGELES COUNTY WATER RECLAMATION PLANT

MALIBU, CALIFORNIA

PC 6971 - B

OCCIDENTAL ENGINEERING CO.
CONSULTING ENGINEERS
ENCINO, CALIFORNIA

BM SY 5395 ELEV. 56.511
C.S. Mon. 8' below top cb. center dividing
strip Pacific Coast Hwy. on E.E.C.,
0.7 mi. W. of Malibu Creek, 420' E. of
Malibu Canyon Road
MALIBU QUAD. 1960

40192

INDEX

DRAWING NO.	DESCRIPTION
1	TITLE SHEET
2	SITE PLAN
3	AERATION & SETTLING TANK
4	HOLDING RESERVOIR
5	DETAILS
6	ELECTRICAL LAYOUT
7	ARCHITECTURAL DETAILS
8	LANDSCAPING
9	SPRINKLER SYSTEM

NOTE

Contractor (or Owner) shall obtain the following permits before construction is started on any of the phases of work listed below:

- A - Construction Permit - SANITATION DIVISION
108 W. 2ND STREET
LOS ANGELES 12, ROOM 309
- B - Building Permit - BUILDING & SAFETY DIVISION
108 W. 2ND STREET
LOS ANGELES 12, ROOM 206
- C - Electrical Permit
- D - Plumbing Permit
- E - Construction Permit - AIR POLLUTION CONTROL DISTRICT
434 S. SAN PEDRO STREET
LOS ANGELES 13, CALIFORNIA

PLANT CAPACITY

FIRST PHASE - 11,500 G.P.D. - 48 UNITS
SECOND PHASE - 37,500 G.P.D. - 156 UNITS

OCCIDENTAL ENGINEERING CO.

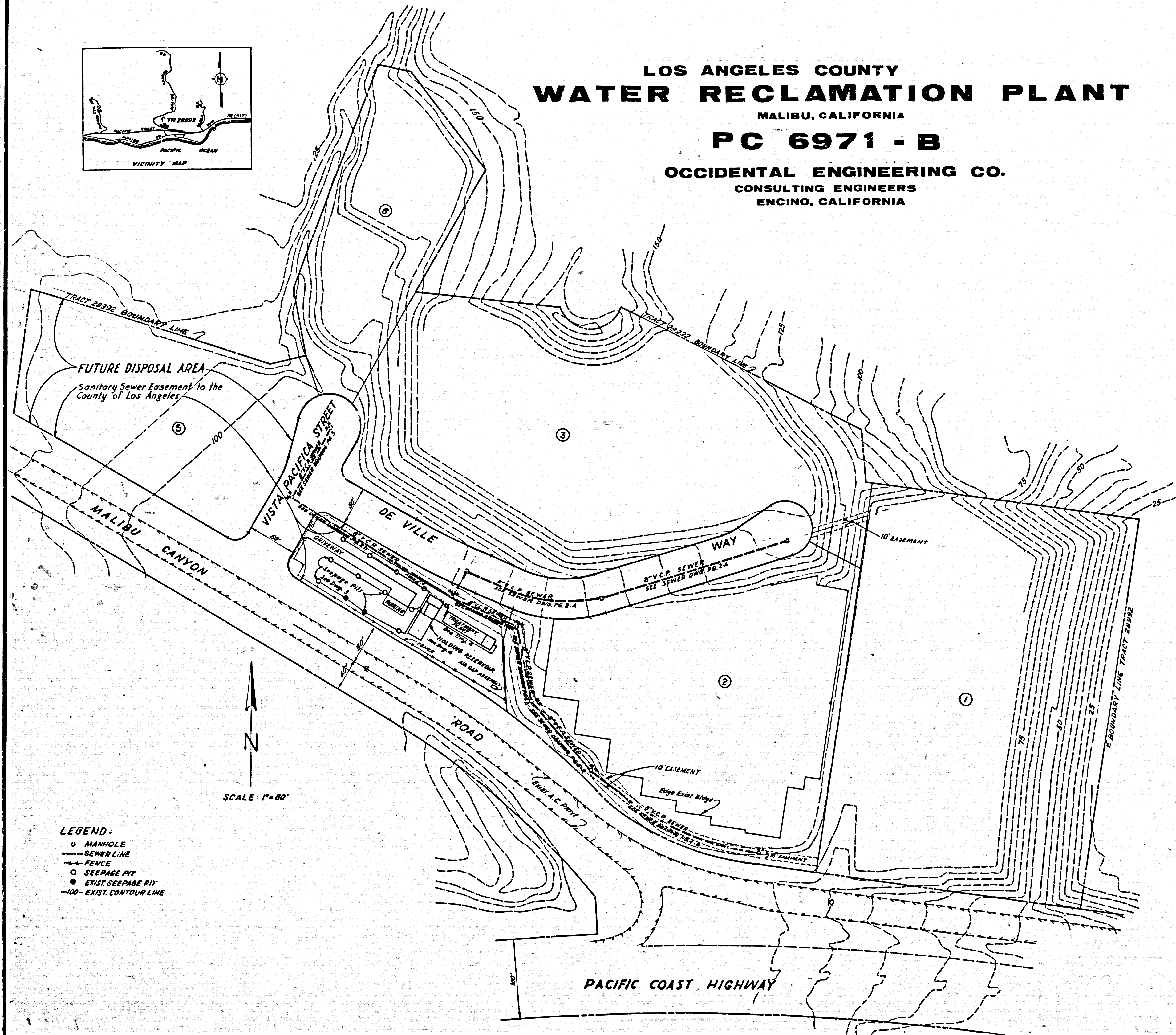
SUBMITTED BY: *Jaime A. Pero*
JAIME A. PERO, P.E. NO. 14416

COUNTY OF LOS ANGELES, CALIFORNIA
JOHN A. LAMBIE COUNTY ENGINEER

CHECKED BY: *Robert J. ...*
DESIGN ENGINEER, R.C.E. 14850

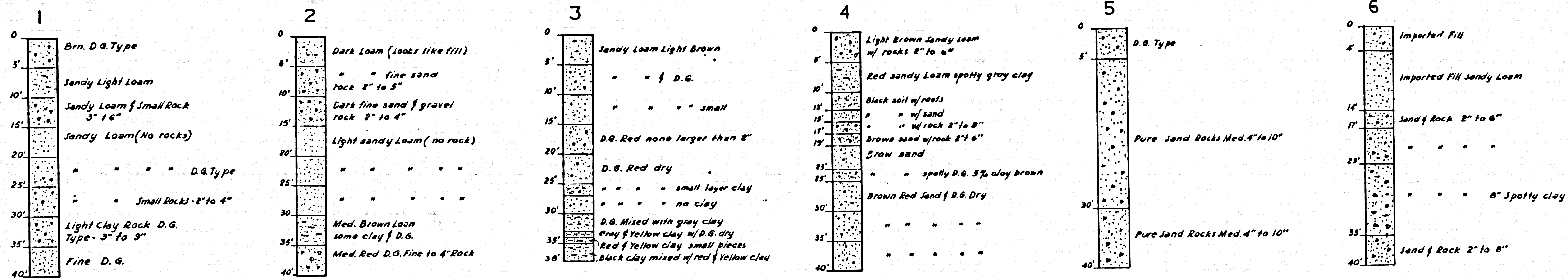
APPROVED BY: *Robert J. ...*
SANITATION ENGINEER MAINTENANCE SUPERINTENDENT

JOB NO. 101001 DWG NO. 1 OF 9 R-3



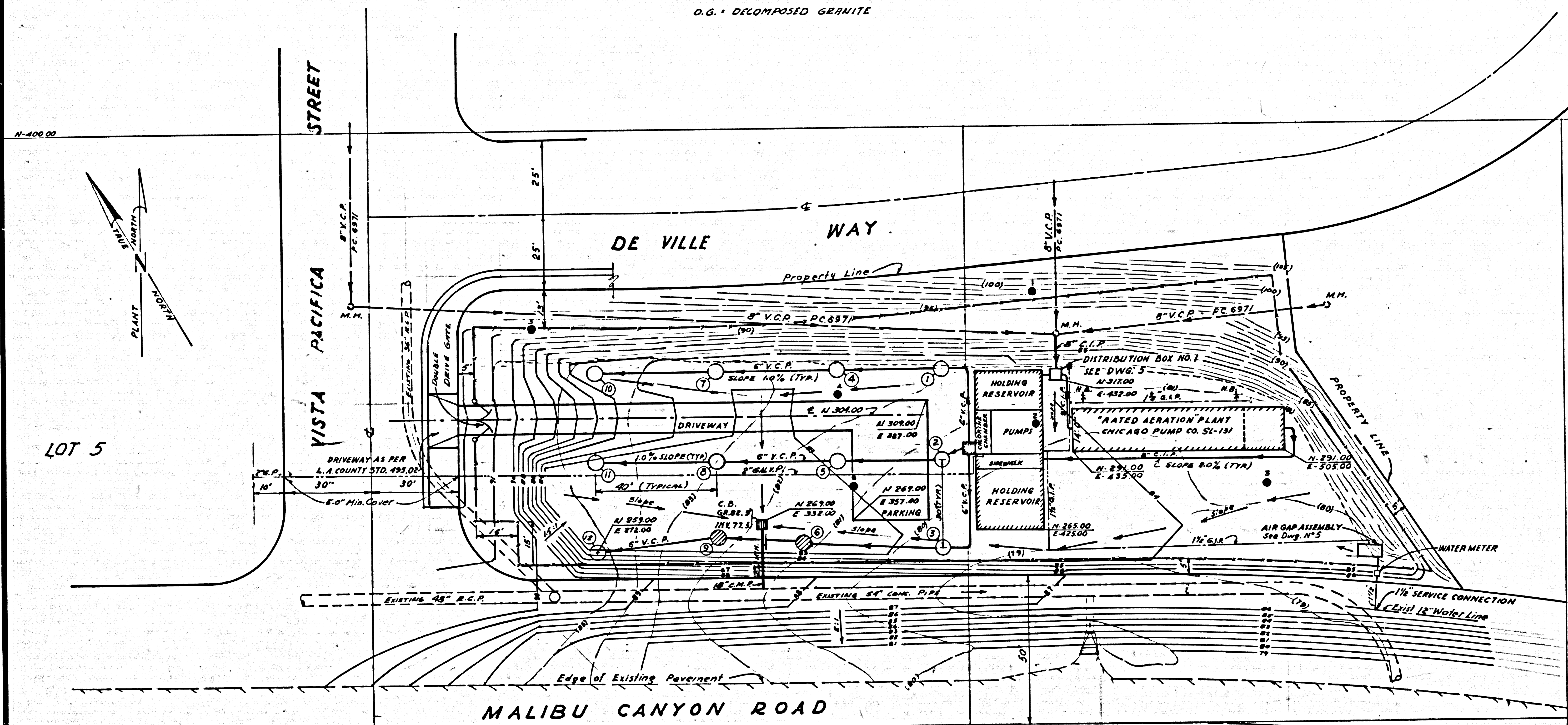
- LEGEND:**
- MANHOLE
 - SEWER LINE
 - - - FENCE
 - SEEPAGE PIT
 - EXIST. SEEPAGE PIT
 - - - EXIST. CONTOUR LINE

SOIL LOG OF BORINGS



D.G. - DECOMPOSED GRANITE

40193



GENERAL NOTES

- All grading shall be done in accordance with L.A. County Building Code.
- Fill slopes shall be 1 1/2:1 maximum, and compacted to 90% of max. density.
- All vegetation, top soil and fragmented siltstone shall be removed from original ground and approved by the County Inspector and approved Soil Test Agency, before placing compacted fill.
- Fill are to be compacted in 6" layers, watered, Sheepfooted, rolled and tested by an approved Soil Test Engineer.
- Compaction shall be 90% of Maximum Density per A.A.S.H.O. T-99-49 Minimum Foundation Bearing Value 1000 P.S.F.
- A soil test shall be made per each 2 ft. of fill, not less than one test per 500 cu. yds.
- The Grading Contractor shall be responsible for any damage to adjacent properties and for the location and damages to any substructures.
- An approved Set of Plans shall be on the Job site at all times.
- Fill dirt shall be clean earth from on-site excavation.
- All fill placement areas, including fill benches, shall be inspected and approved by the soil Engineer prior to placement of fill.
- All deleterious material (roots, brush) shall be removed prior to be placement of fill.
- The Owner/ Subdivider shall assume responsibility for storm water runoff until the Proposed Storm Drain facilities are constructed to the satisfaction of the County Engineer.

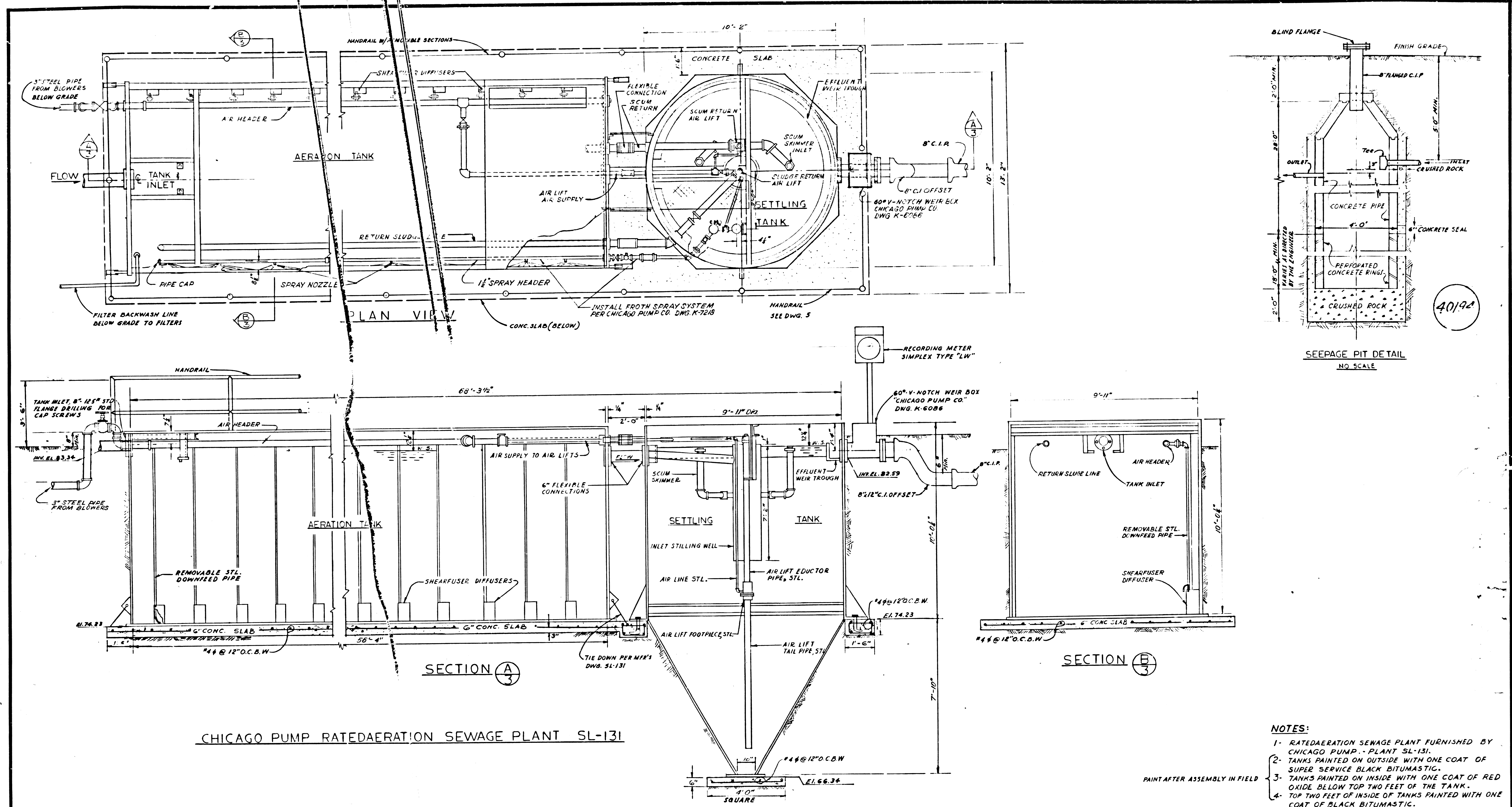
THE UNDERSIGNED CIVIL ENGINEER CERTIFIES THAT THIS GRADING WORK SHALL BE SUPERVISED IN ACCORDANCE WITH SEC. 7010 OF COUNTY BUILDING CODE.

James A. Pero
JAMES A. PERO R.C.E. 14416

LEGEND

- BORINGS
- SEEPAGE PITS - SEE DW. 3
- EXIST. SEEPAGE PITS
- (100) - EXIST. CONTOURS
- FENCE AS PER STD. DWG. D-61-6' HIGH
- FINISH CONTOURS
- DRAINAGE SWALE
- H.D. NOSE BIBO 1"
- FRESH WATER
- 8" P.V.C.

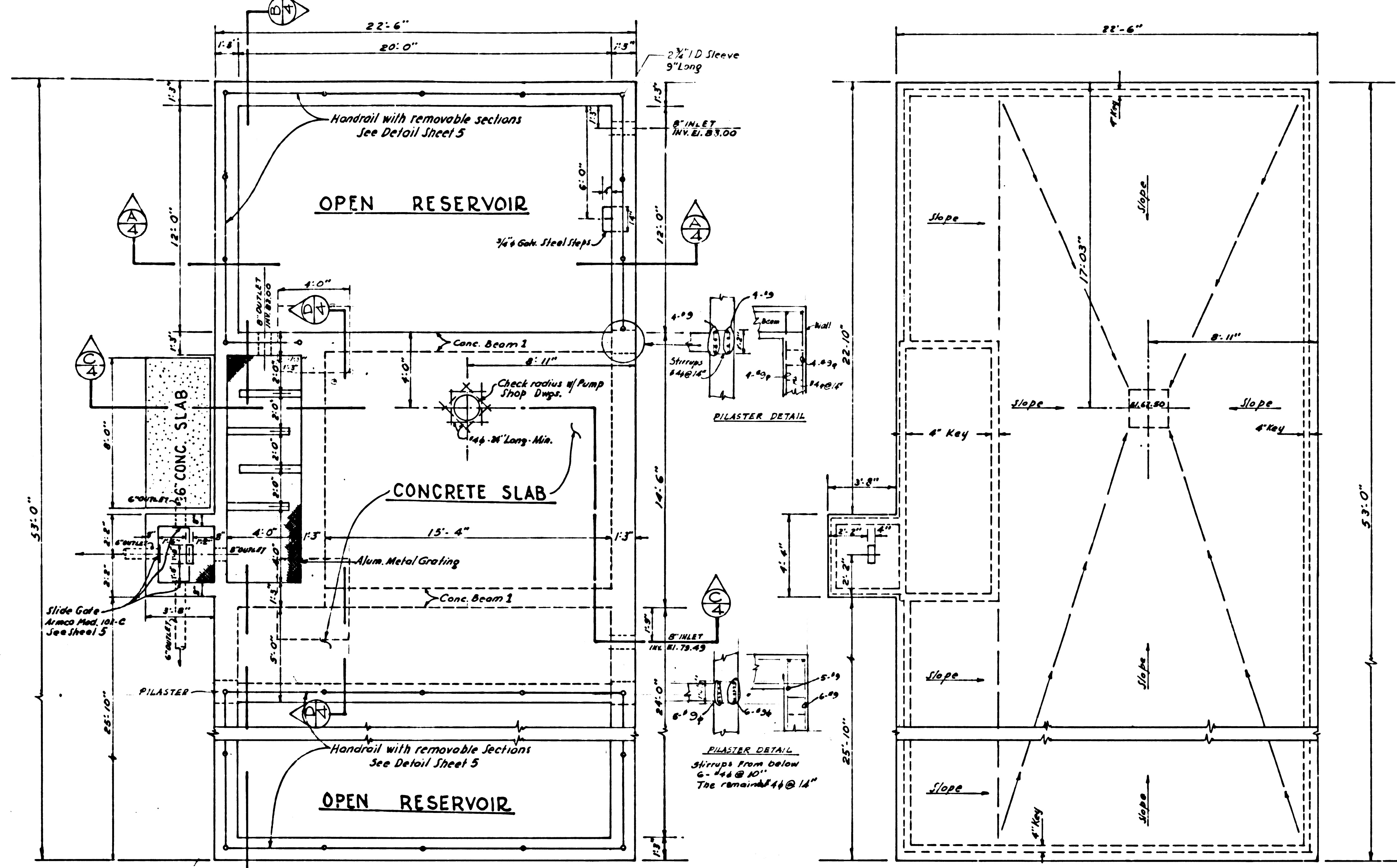
APPROVAL		DATE	ENGINEER	OCCIDENTAL ENGINEERING CO.		CALIFORNIA
DRAWN BY		E. Munevar	DATE	8/64	FOR L. A. COUNTY ENGINEER	
CHECKED BY		J.P.			PC 6971-B	
APPROVED BY		<i>[Signature]</i>	DATE		SITE PLAN	
					JOB NO. 101001	DWG. NO. 2 OF 9
					R-3	



CHICAGO PUMP RATE AERATION SEWAGE PLANT SL-131

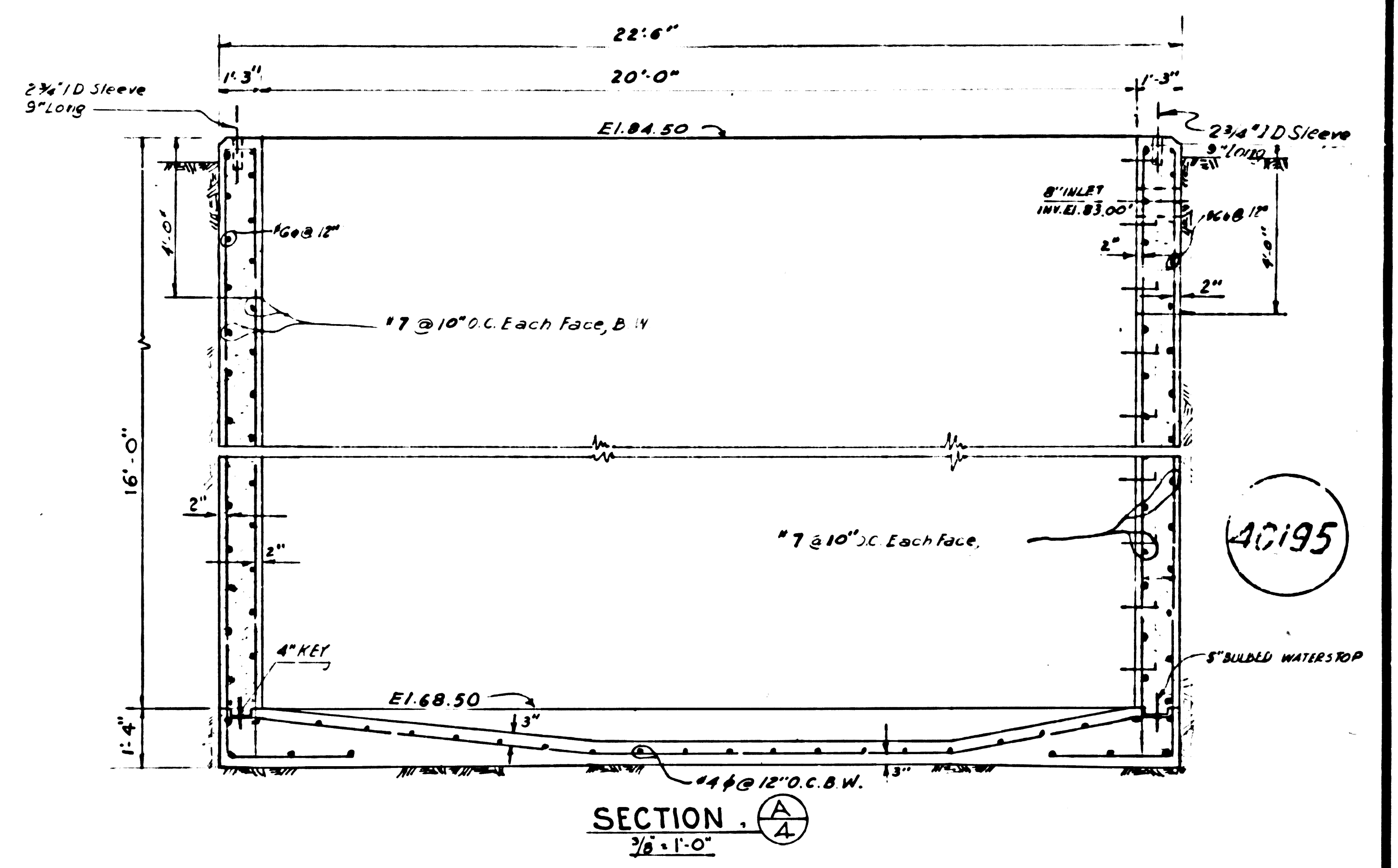
- NOTES:**
- 1- RATE AERATION SEWAGE PLANT FURNISHED BY CHICAGO PUMP - PLANT SL-131.
 - 2- TANKS PAINTED ON OUTSIDE WITH ONE COAT OF SUPER SERVICE BLACK BITUMASTIC.
 - 3- TANKS PAINTED ON INSIDE WITH ONE COAT OF RED OXIDE BELOW TOP TWO FEET OF THE TANK.
 - 4- TOP TWO FEET OF INSIDE OF TANKS PAINTED WITH ONE COAT OF BLACK BITUMASTIC.
 - 5- ALL PIPING & FITTINGS NOT GALV. PAINTED WITH ONE COAT OF BLACK BITUMASTIC.
 - 6- FOR INSTALLATION & CONNECTIONS, SEE "CHICAGO PUMP - PLANT SL-131, SHOP DRAWINGS.
 - 7- GUNITE AERATION & SETTLING TANKS OUTSIDE. USE #6 WIRE MESH REIN. ELECT. SPOT WELDING. GUNITE SHALL EXTEND TO THE FULL HEIGHT OF THE TANKS & BE 2" MIN. THICK.

APPROVAL		DATE	ENCING	OCCIDENTAL ENGINEERING CO. CALIFORNIA	
DRAWN BY		E. MUNEVAR	DATE	FOR: L. A. COUNTY ENGINEER	
CHECKED BY		J. P.		PC 6971-B	
APPROVED BY				AERATION & SETTLING TANK	
				JOB NO. 101001	DWG. NO. 3 OF 9
					R-3

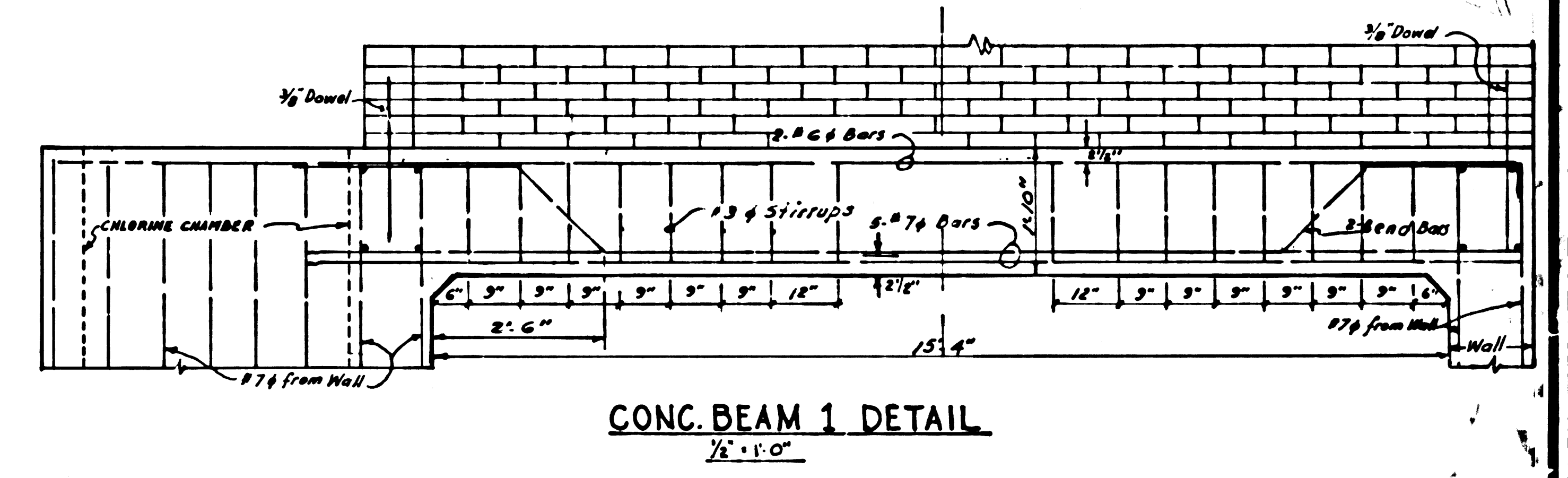


TOP PLAN
3/8" = 1'-0"

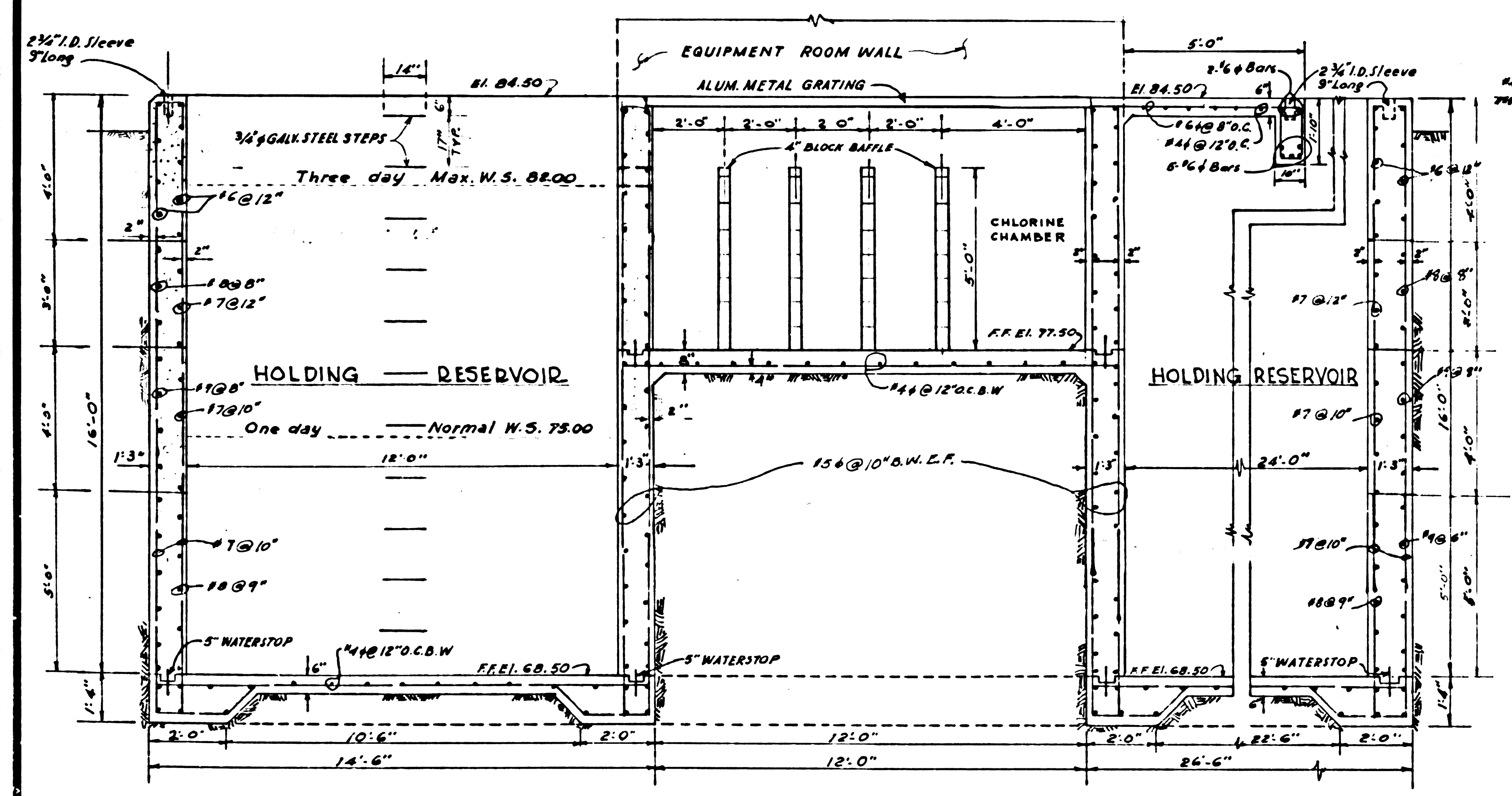
FOUNDATION & SLAB PLAN
3/8" = 1'-0"



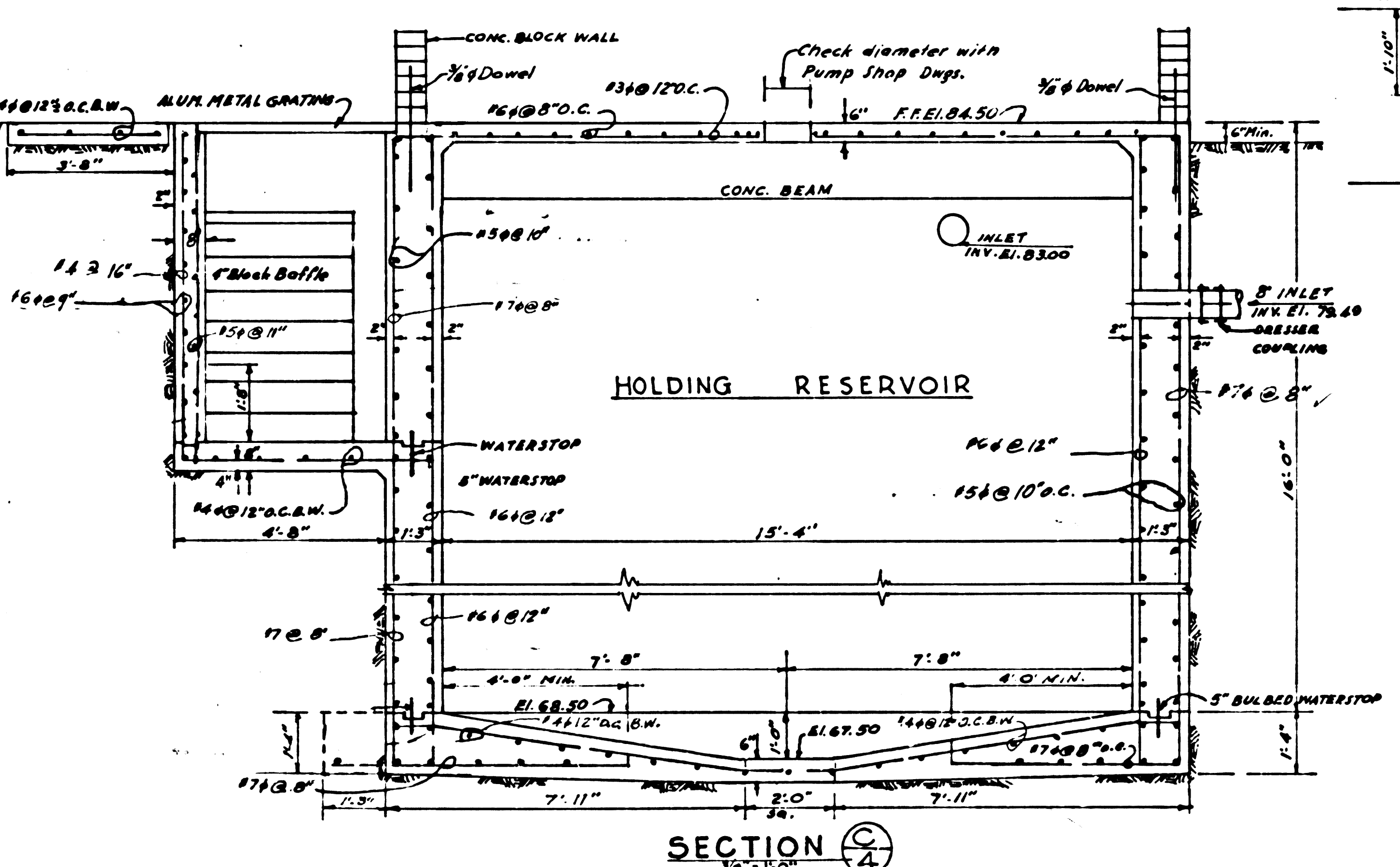
SECTION A-A
3/8" = 1'-0"



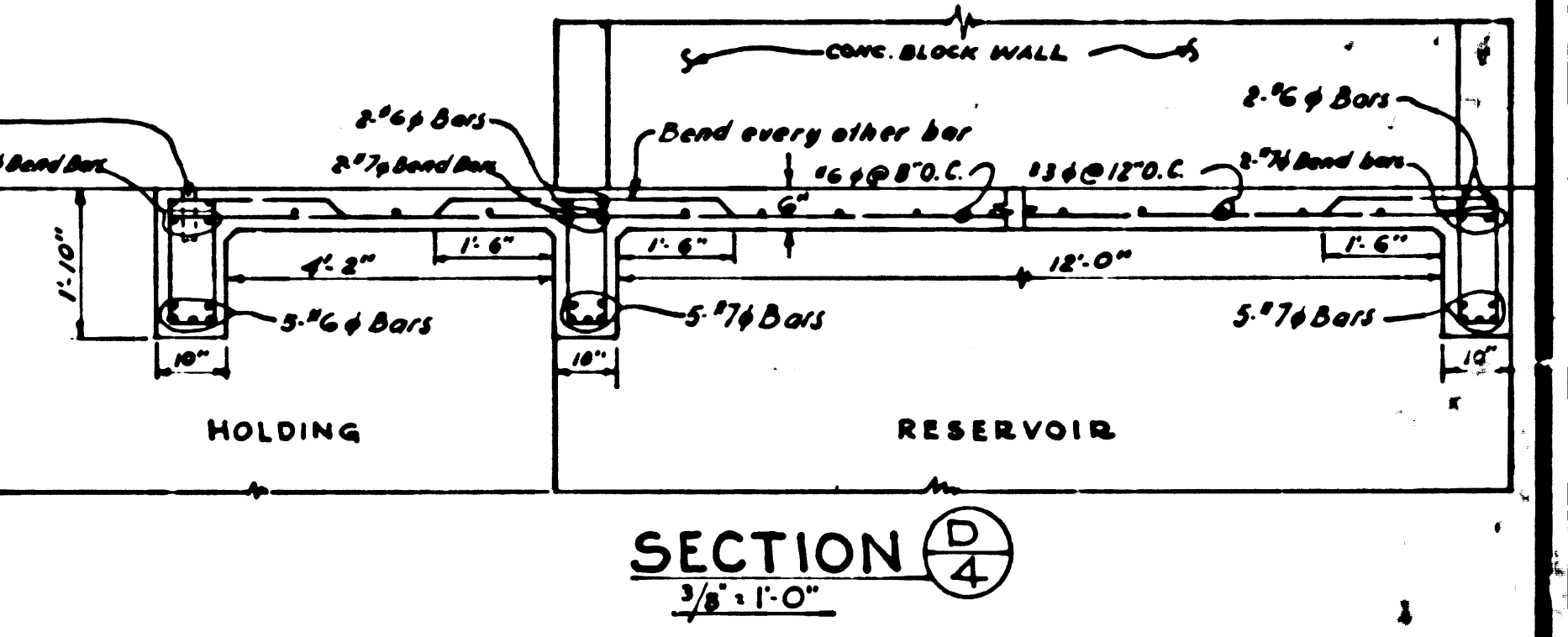
CONC. BEAM 1 DETAIL
3/8" = 1'-0"



SECTION B-B
3/8" = 1'-0"



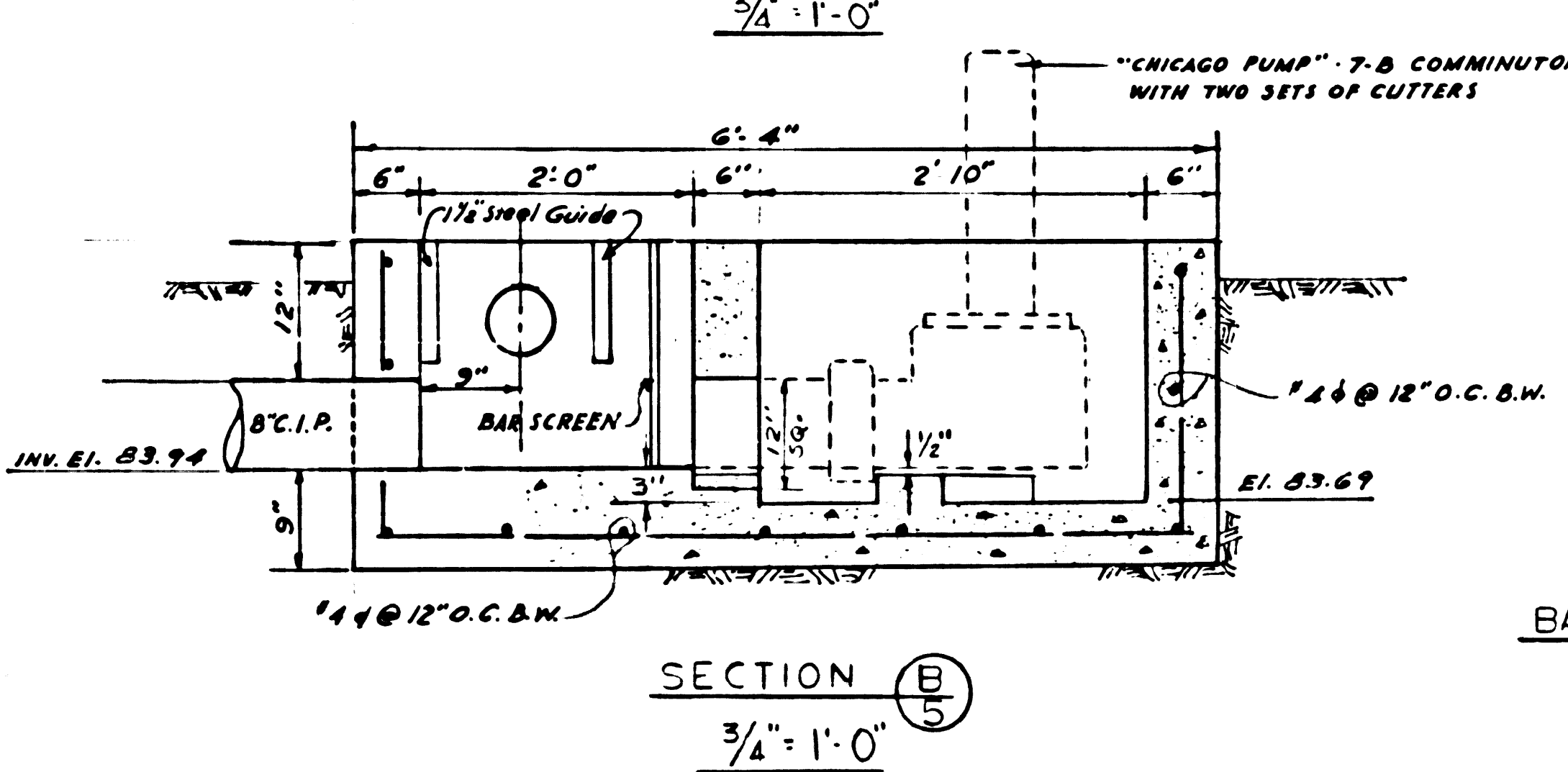
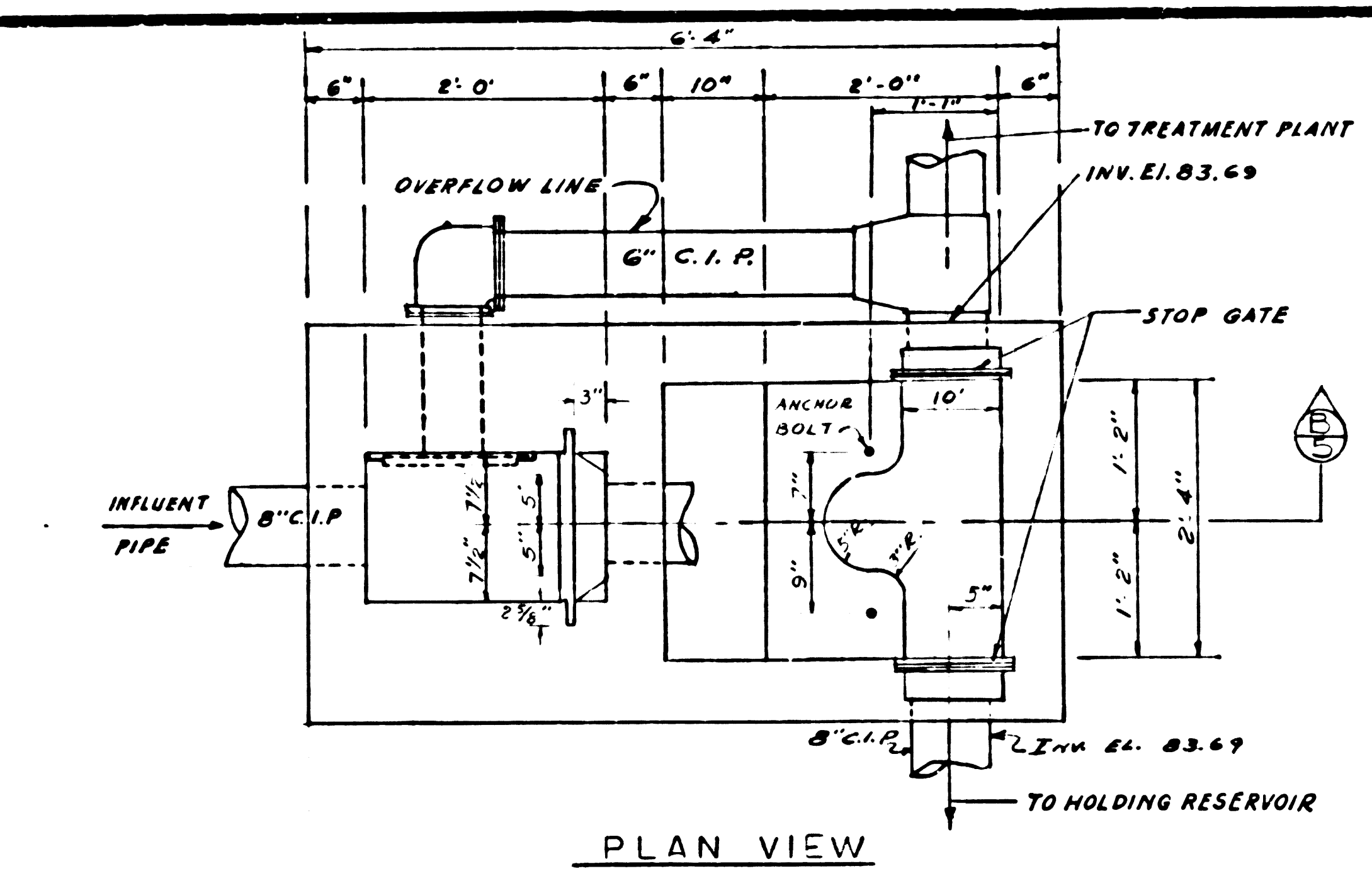
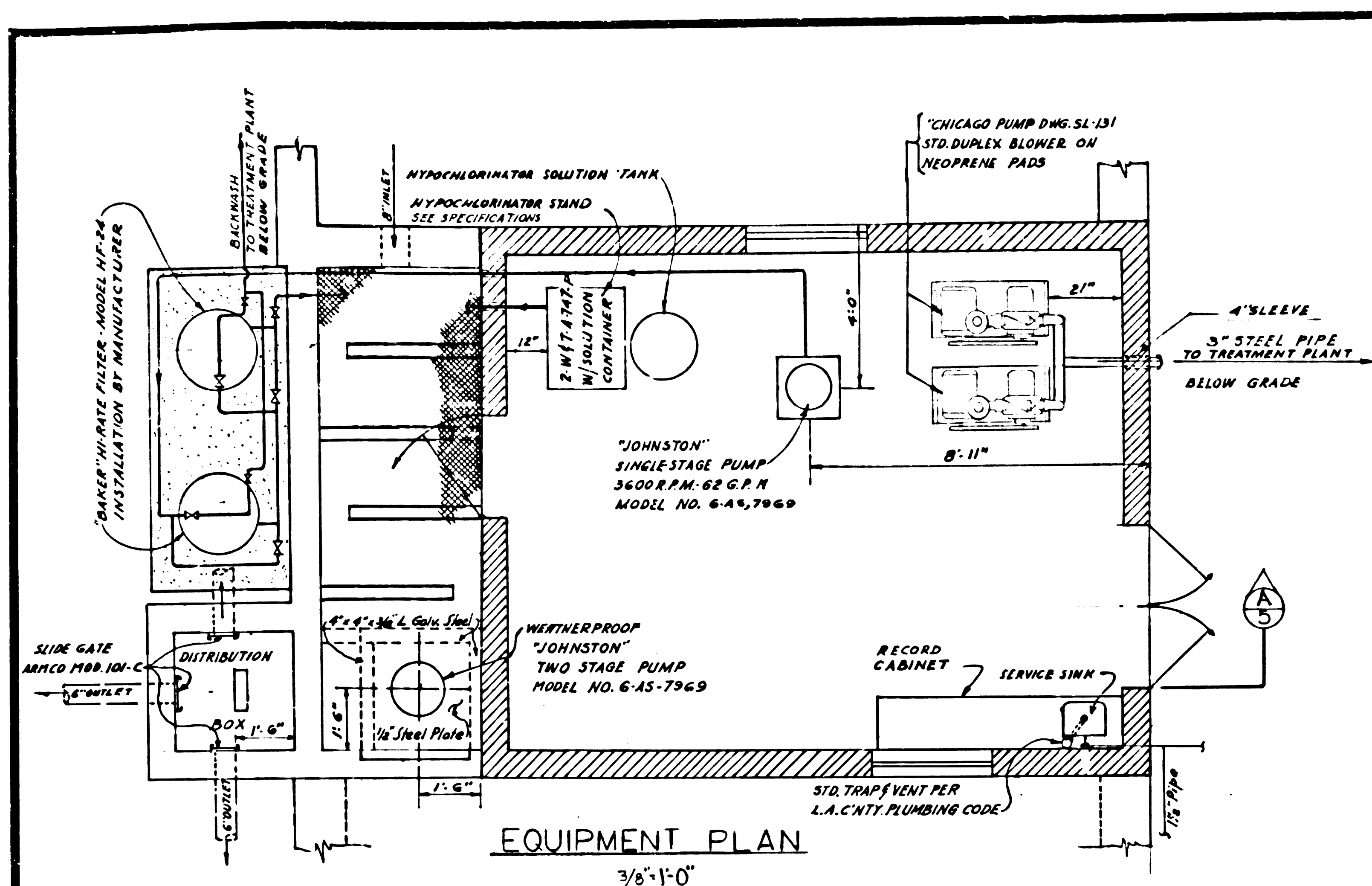
SECTION C-C
3/8" = 1'-0"



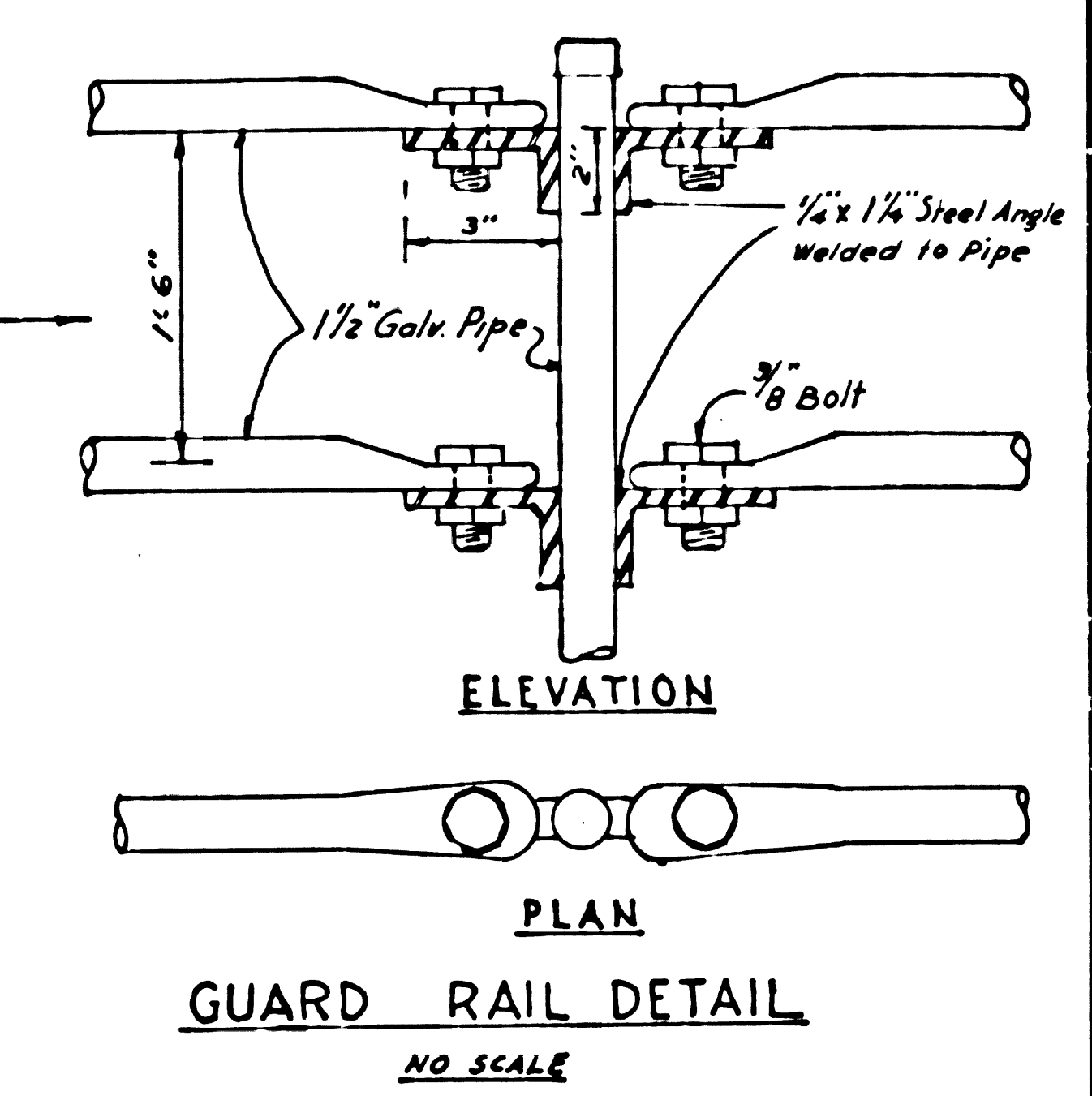
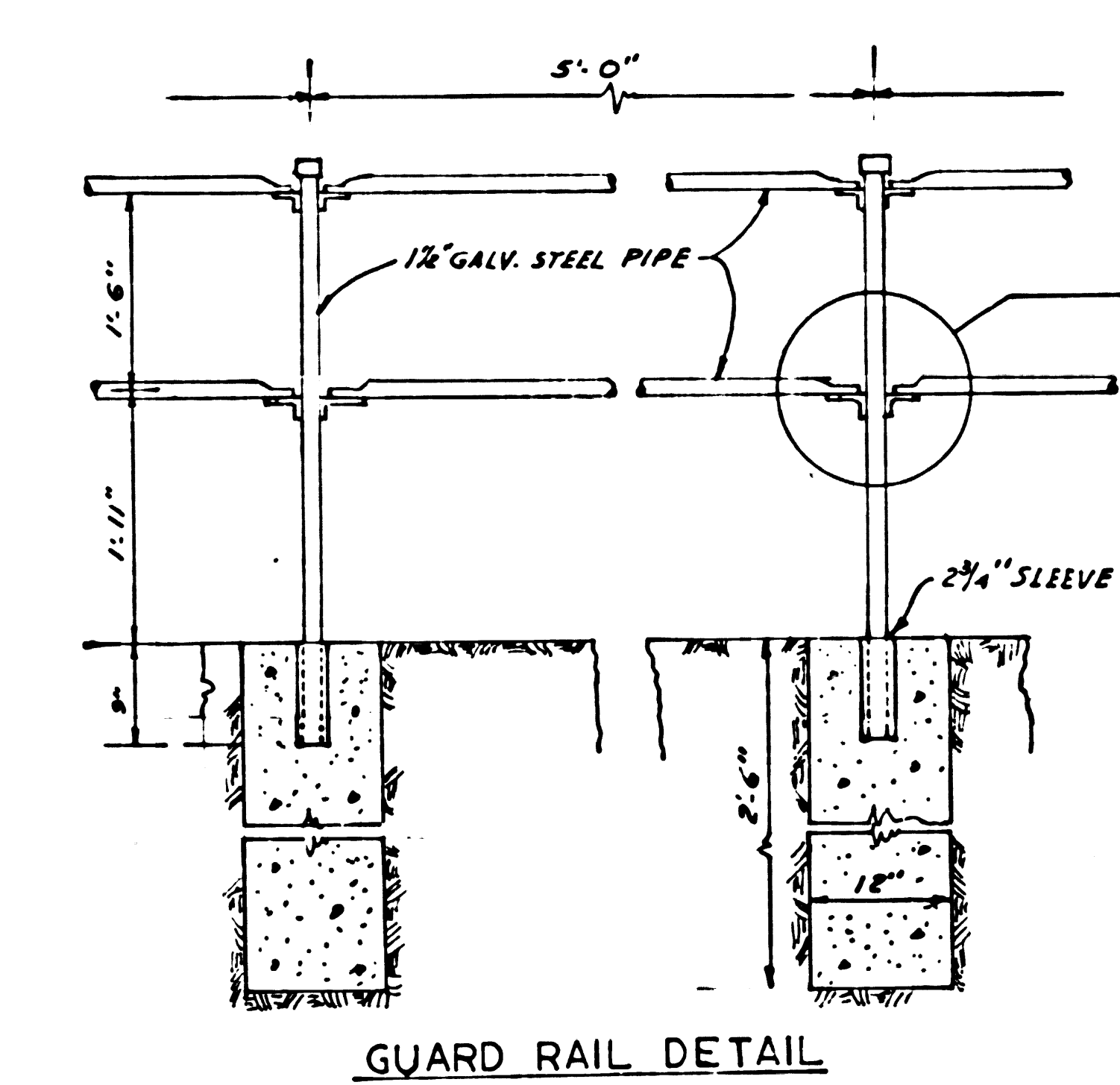
SECTION D-D
3/8" = 1'-0"

NOTES:
 1- Bars shall lap 20 diameters, where spliced
 2- All bars embedments are clear distance to outside of bar
 3- Spacing for parallel bars is center to center of bars
 4- All concrete shall be class "A" & have a 28 day strength of 3,000 p.s.i. in compression

APPROVAL		DATE	ENGINEER		OCCIDENTAL ENGINEERING CO. CALIFORNIA	
SCALE	NOTED	DATE	FOR: L. A. COUNTY ENGINEER			
DRAWN BY	E. Muncvar	8/64	PC 6971-B			
CHECKED BY	J.P.		HOLDING RESERVOIR			
APPROVED BY			JOB NO. 101001	DWG. NO. 4 OF 9	R-3	

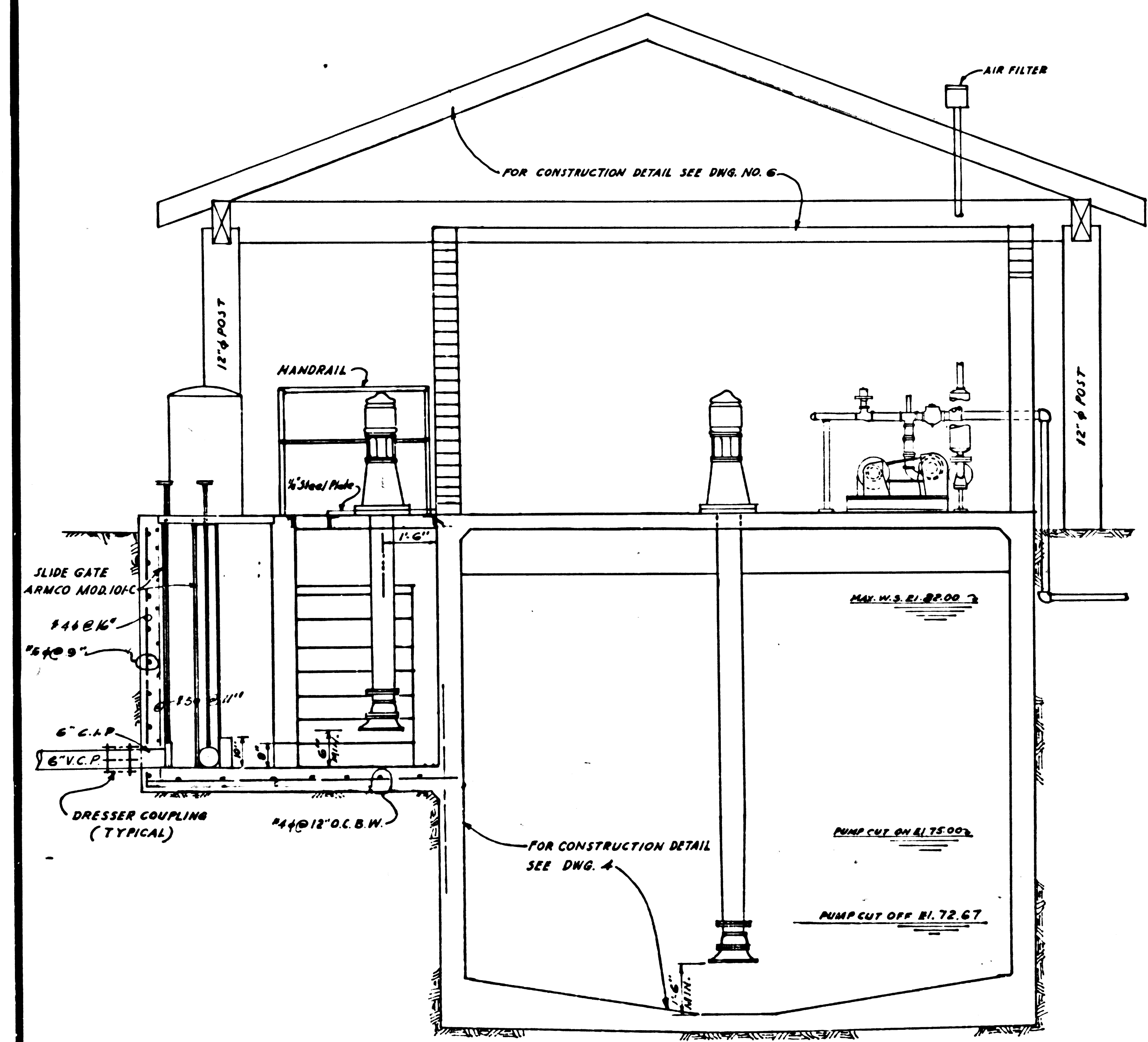


COMMINUTOR & DISTRIBUTION BOX DETAILS

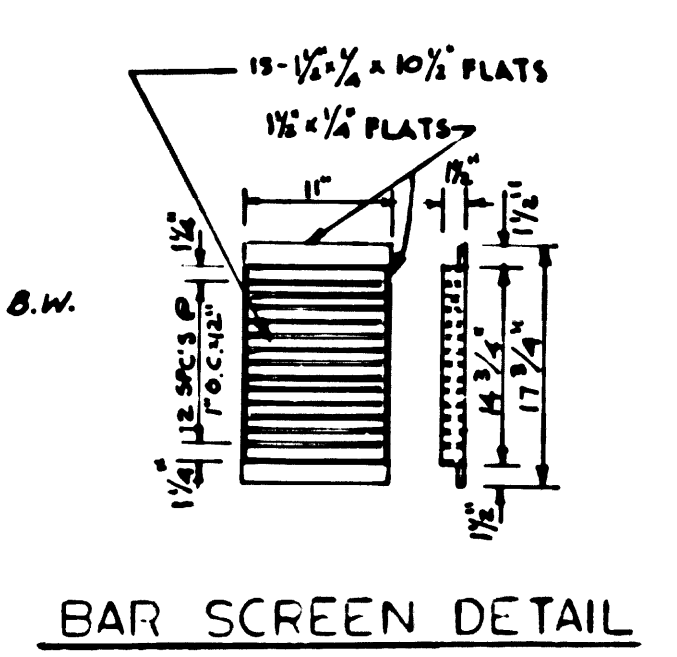


GUARD RAIL DETAIL

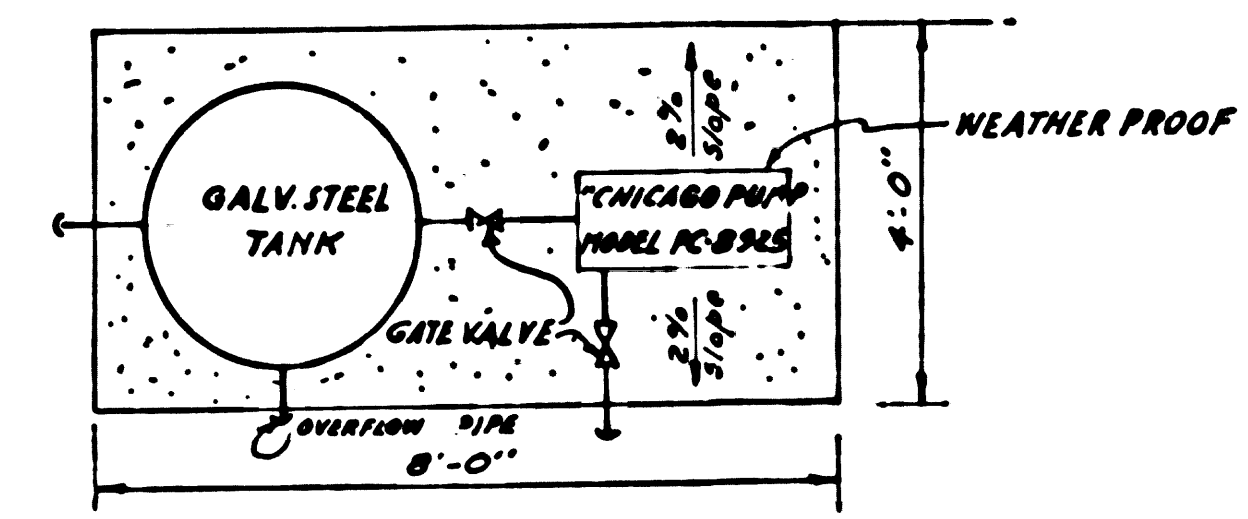
40196



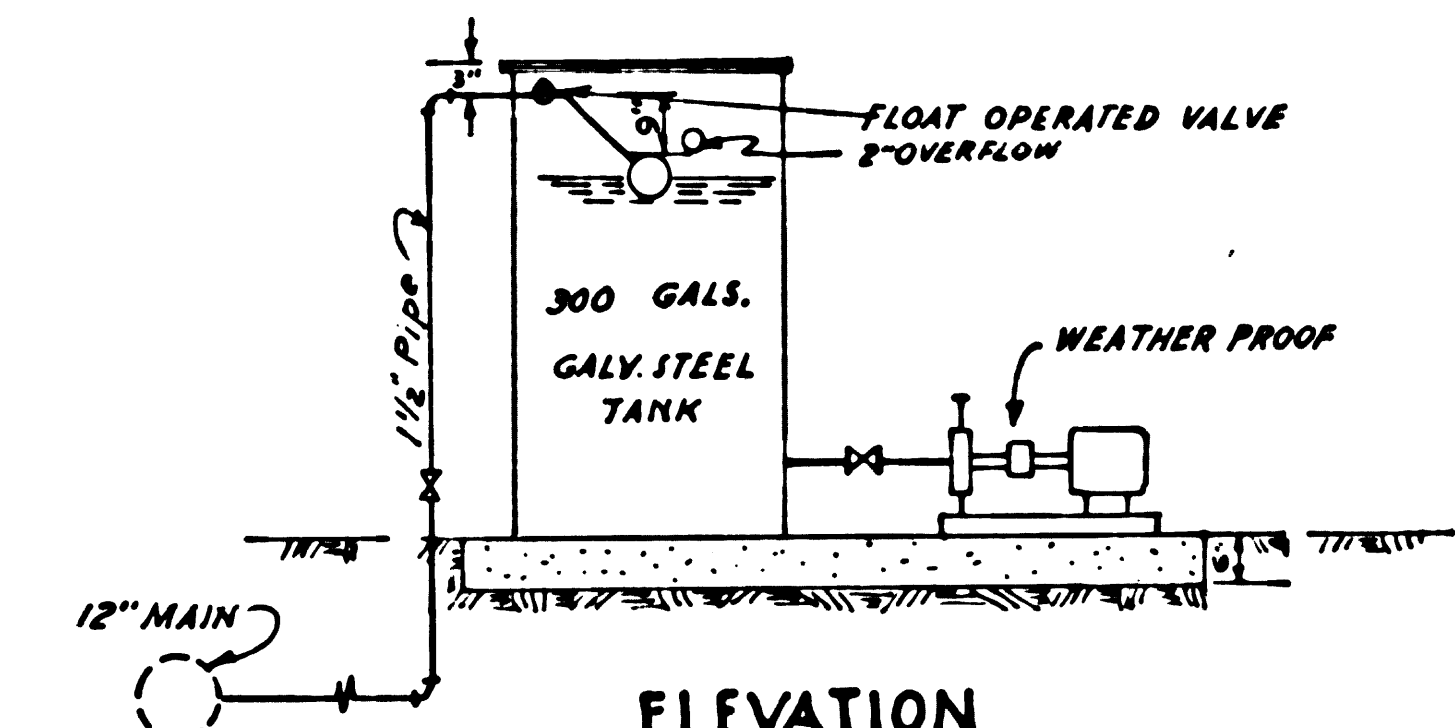
SECTION A-A



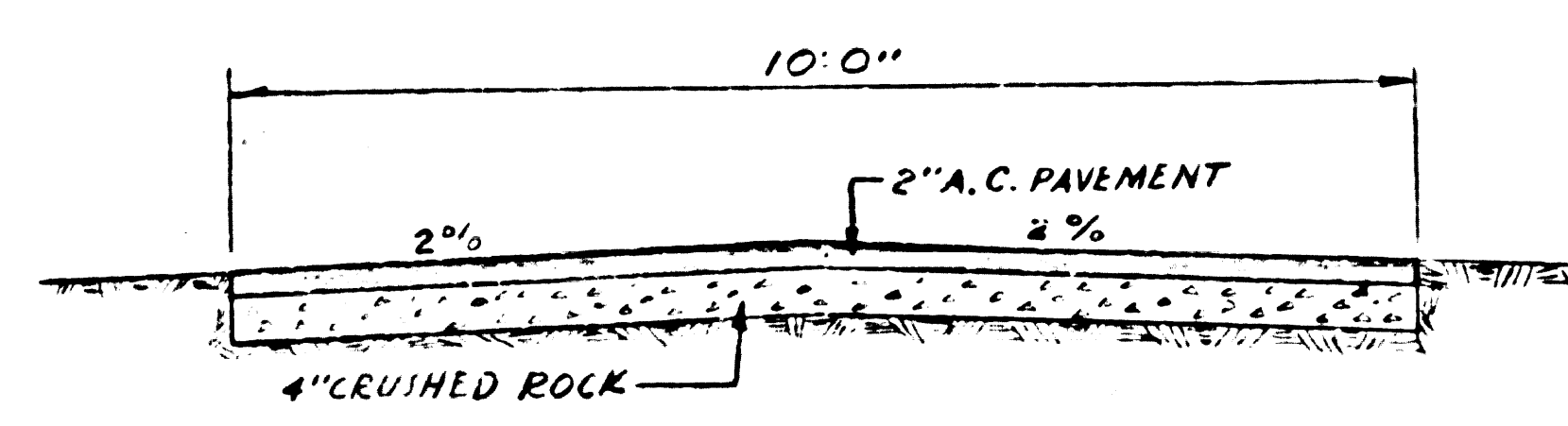
BAR SCREEN DETAIL



PLAN



AIR GAP ASSEMBLY DETAIL



DRIVEWAY DETAIL

APPROVAL		DATE	ENGINEER		OCCIDENTAL ENGINEERING CO. CALIFORNIA	
			SCALE:	NOTED	DATE	FOR: L. A. COUNTY ENGINEER
			DRAWN BY:	E. MUNEYER		PC 6971-B
			CHECKED BY:	J. P.		DETAILS
			APPROVED BY:	[Signature]		JOB NO. 101001
						DWG NO. 5 OF 9
						R-3

ELECTRICAL SPECIFICATIONS

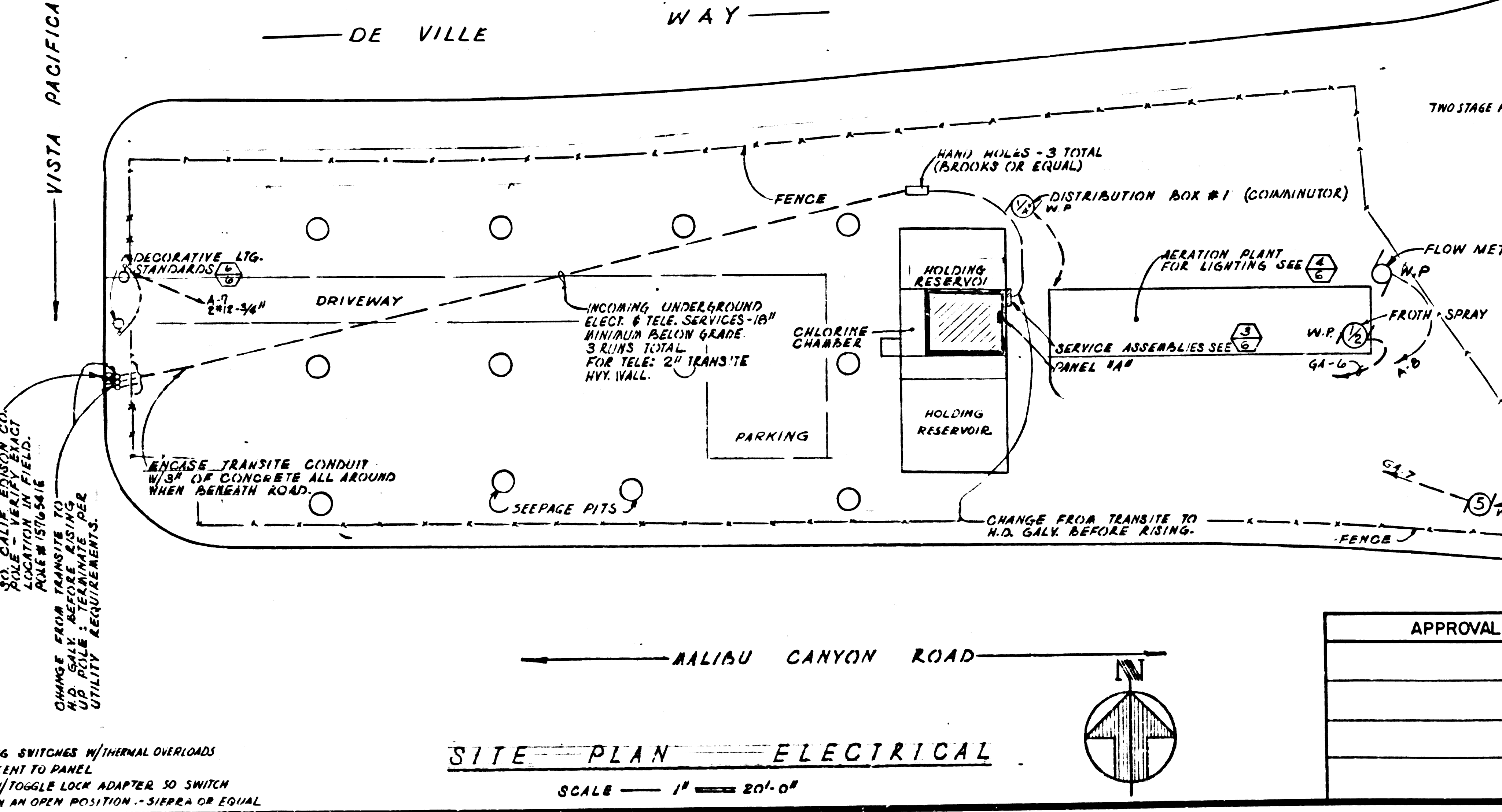
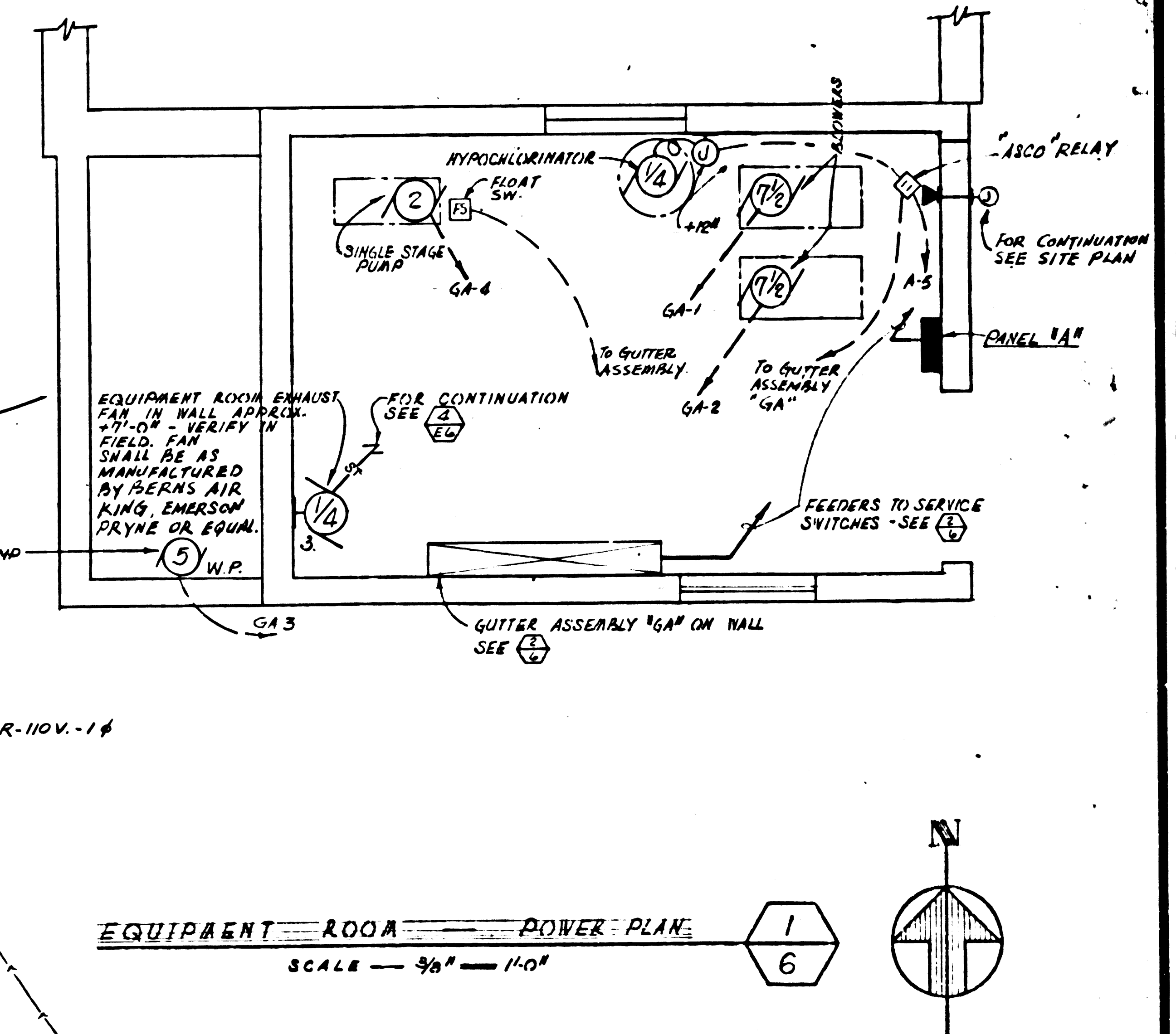
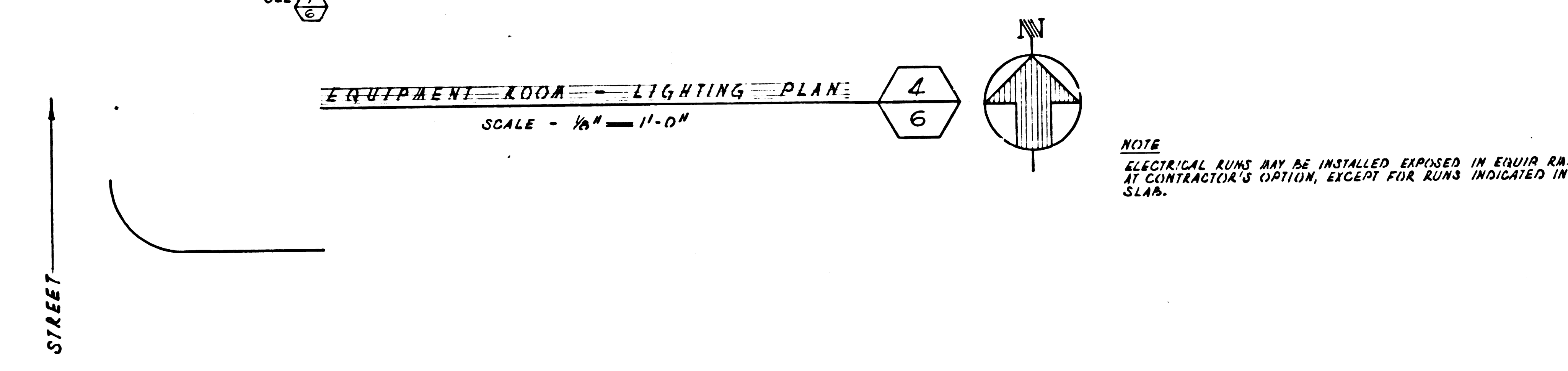
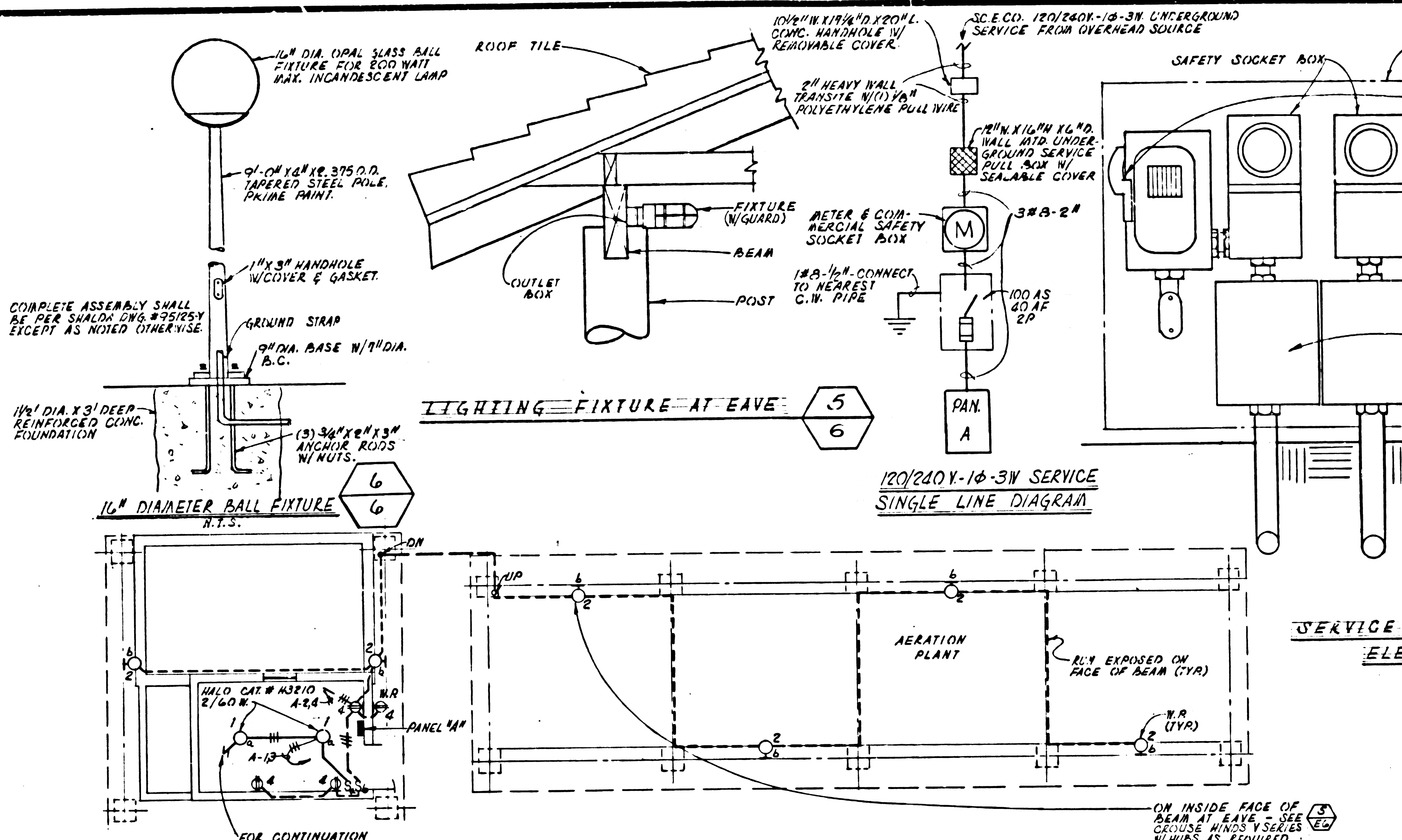
- WORK INCLUDED: FURNISH, INSTALL & CONNECT ALL ELECTRICAL WORK INDICATED ON THIS DRAWING AND AS SPECIFIED HEREIN INCLUDING ALL INCIDENTALS NECESSARY FOR A COMPLETE INSTALLATION. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:
 - DESIGN & INSTALLATION OF ALL ELECTRICAL PERMITS, INSPECTIONS, CERTIFICATIONS, ETC. AS REQUIRED, & UTILITY CHARGES AS REQUIRED.
 - INCLUDE ALL NECESSARY FOR A COMPLETE & OBTAINABLE PERMIT.
 - COMPLETE DESIGN SYSTEM FOR POWER & LIGHTING INCLUDING SERVICE ASSEMBLY, PANELS, TRANSFORMERS & BUILT-UP MOTOR CONTROL.
 - COMPLETE BRANCH CIRCUIT SYSTEM, INCLUDING CONDUIT, WIRE, OUTLETS, PULL BOXES, AND MISCELLANEOUS FITTINGS.
 - COMPLETE LIGHTING SYSTEM, INCLUDING FIXTURES, LAMPS, HOLES, FOUNDATIONS & REQUIRED EQUIPMENT.
 - COMPLETE TELEPHONE RACEWAYS, AND OUTLETS, INCLUDING PULL WIRE IN ALL EMPLOYEES' BUILDINGS.
 - COMPLETE TELEPHONE RACEWAYS, AND OUTLETS, INCLUDING PULL WIRE IN ALL EMPLOYEES' BUILDINGS.
 - SUPPLEMENTARY BRACKING, SUPPORTS & BACKWARDS WHERE REQUIRED.
 - ALL REQUIRED GROUNDING.
 - ALL REQUIRED TESTS.
- GENERAL:**
- THE COMPLETE INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS OF THE COUNTY OF LOS ANGELES ELECTRICAL CODE AND/OR THE STATE OF CALIFORNIA ELECTRICAL SAFETY ORDERS, WHICHEVER IS MORE STRINGENT.
 - COORDINATE ALL WORK WITH OTHER TRADES.
 - VISIT THE SITE & VERIFY ALL CONDITIONS.
 - FURNISH APPROPRIATE MATERIAL & LABOR FOR ALL REQUIRED TESTS ON SYSTEMS UNDER THIS WORK.
 - THOROUGHLY CLEAN ALL EQUIPMENT AND REMOVE ALL DEBRIS FROM PREMISES. ALL MATERIALS SHALL BE NEW & BEAR THE U.S. LABEL.
 - REQUIRED DRAWINGS DELIVER TO THE ENGINEER, UPON CONCLUSION OF THE WORK, IN ORIGINAL & COPIED FORM INDICATING ALL AS-BUILT DATA. SHOP DRAWINGS SUBMIT FOR APPROVAL TWO (2) COPIES OF SHOP DRAWINGS FOR THE FOLLOWING EQUIPMENT:
 - PANEL AND DISTRIBUTION BOARD.
 - CUTS OF LIGHTING FIXTURES.
 - LIST OF MATERIALS TO BE FURNISHED, INDICATING MANUFACTURER AND CATALOG NUMBERS.
- MATERIALS:**
- UNDERGROUND, WHERE EXPOSED TO MECHANICAL INJURY, OR IN DAMP LOCATIONS:
 - ELECTRIC METALLIC TUBING IN ALL OTHER LOCATIONS. (USE ONLY COMPRESSION-TYPE FITTINGS.)
 - FLEXIBLE CONDUIT FOR SHORT CONNECTIONS TO MOTORS.
 - TRANSITE FOR UNDERGROUND RUNS WHERE INDICATED.
 - UNDERGROUND CONDUIT SHALL BE PAINTED WITH COATS OF PARCO PFB PAINT.
 - WIRE SHALL BE TYPE "TH" FOR BRANCH CIRCUITS & TYPE "RHW" FOR FEEDERS AND SERVICE.
 - SIZES AS REQUIRED BY ORDINANCES.
 - MINIMUM SIZE FOR OUTLET WIRE SHALL BE 4# @ 1/4" D.
 - WIRY BOX PERMITTED AT END OF RUN ONLY.
 - DISCONNECT SWITCHES & DISCONNECT SWITCHES SHALL BE SAFETY TYPE, FUSED OR NOT FUSED AS REQUIRED, HEAVY DUTY, HOSEPIPER RATED, AND CONSTRUCTED TO MEET STANDARDS.
 - COVER PANELS DISTRIBUTION PANELBOARDS SHALL MEET ALL REQUIREMENTS OF PARAGON B, BUT IN ADDITION SHALL BE CONVERTIBLE TYPE, WITH BREAKERS LOCKABLE IN THE OPEN POSITION. BREAKERS SHALL BE BUILT-IN INSTEAD OF PLUG-IN.
 - MAIN SERVICE ASSEMBLY SERVICE & METERING ASSEMBLY SHALL MEET ALL REQUIREMENTS OF THE SERVING UTILITY.
 - LIGHTING PANELBOARDS:
 - REQUIRED TO BE MOUNTED & SURFACE MOUNTED, WITH THERMAL-MAGNETIC PLUG-IN MOLDED CASE CIRCUIT BREAKERS, AND HINGED, LOCKABLE DOOR, TRIM.
 - REQUIRED TO LOCATE TIME SWITCHES ADJACENT TO PANELBOARD.
 - PANELS SHALL BE SQUARE D, TYPE "HQC", OR APPROVED EQUAL, BY LISTED MANUFACTURER OR ZINCOG.
 - DEVICES:
 - RECEPTACLES: RUBBERELL #3042 SERIES, BROWN.
 - SWITCHES: SQUARE D 1000 BROWN SERIES UNLESS OTHERWISE NOTED.
 - CONDUIT: SQUARE D "SIEKA" 1/2" LINE BROWN.
 - WIRING: SPECIFICATION GAUGE EQUALS BY BRYANT, ARROW, OR P.E.S. ARE ACCEPTABLE.
 - AUTOMATIC CONTROL DEVICES: TIME SWITCHES SHALL BE TOX, WITH KILPS, AND INTERLOCK AS REQUIRED, AND 24 HOUR DIAL TYPE.
 - MOTOR CONTROL:
 - IN EQUIPMENT ROOM, PROVIDE COMPARTMENTS AS REQUIRED FOR ALL ELECTRICALLY ENERGIZED EQUIPMENT, SET UNDER OTHER WORK.
 - MANUAL MOTOR STARTERS SHALL BE USED FOR FRACTIONAL HORSEPOWER MOTORS.
 - PROVIDE ALL FINAL CONNECTIONS.
 - ALL MATERIALS AND LABOR SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF COMPLETED WORK, WITH REPAIRS MADE AT NO COST TO OWNER.

- SYMBOL LIST**
- LIGHTING OUTLET, CEILING MOUNTED
 - LIGHTING OUTLET, WALL MOUNTED
 - DUPLEX CONVENIENCE OUTLET WITH WEATHERPROOF WALL PLATE
 - JUNCTION BOX, MOUNTED ON CONDUIT STUB
 - JUNCTION BOX, WALL MOUNTED
 - TELEPHONE OUTLET
 - DUPLEX CONVENIENCE OUTLET, WALL MOUNTED
 - MOTOR OUTLET, NUMBER INDICATES MOTOR HORSEPOWER
 - SINGLE POLE TOGGLE SWITCH
 - MAGNETIC MOTOR STARTER
 - CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS
 - CONDUIT RUN CONCEALED IN OR UNDER FLOOR OR BELOW GRADE
 - 2# IN 1/2" CONDUIT
 - 3# IN 1/2" CONDUIT
 - 4# IN 3/4" CONDUIT
 - INDICATES 3 WIRE CIRCUIT 1-1# NEARBY TO PANEL 1#
 - FLEXIBLE CONDUIT
 - GROUND
 - TIME SWITCH: LETTERING INDICATES SINGLE POLE, SINGLE THROW VOLTAGE: 120/240 - 1Ø-3Ø MOUNTING: SURFACE

PANEL 'A' SCHEDULE

NO.	DESCRIPTION	WATTS	AMP
1	EQUIPT. ROOM	240	1-20
2	EXHAUST FAN	900	1-20
3	EQUIPT. ROOM	720	1-20
4	HYPOCLORINATOR	700	1-20
5	TIME SWITCHES	500	1-20
6	FLOW METER	300	1-20
7	SPARE	500	1-20
8	SPARE	300	1-20
9	SPARE	300	1-20
10	SPARE	300	1-20
TOTAL 5000 WATTS		3340	13.225

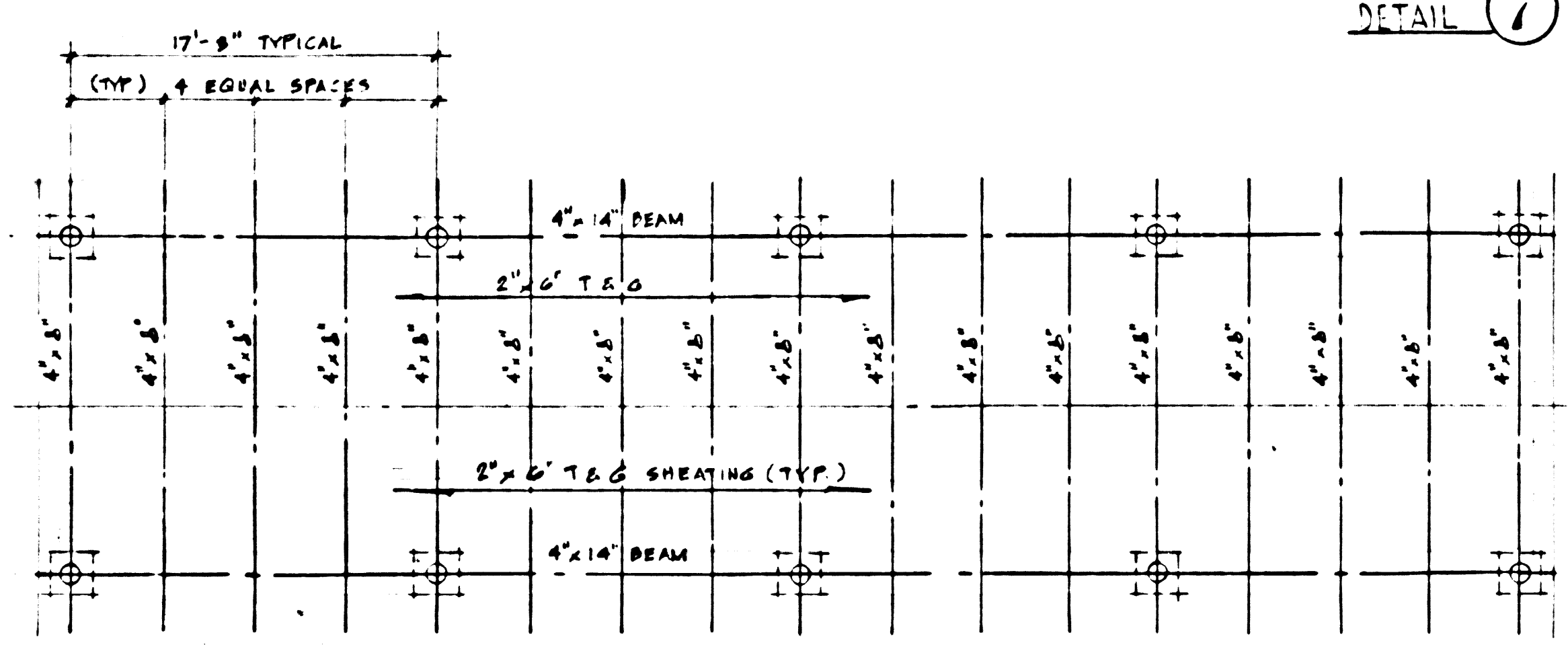
24 AMPS @ 120/240V-1Ø-3Ø



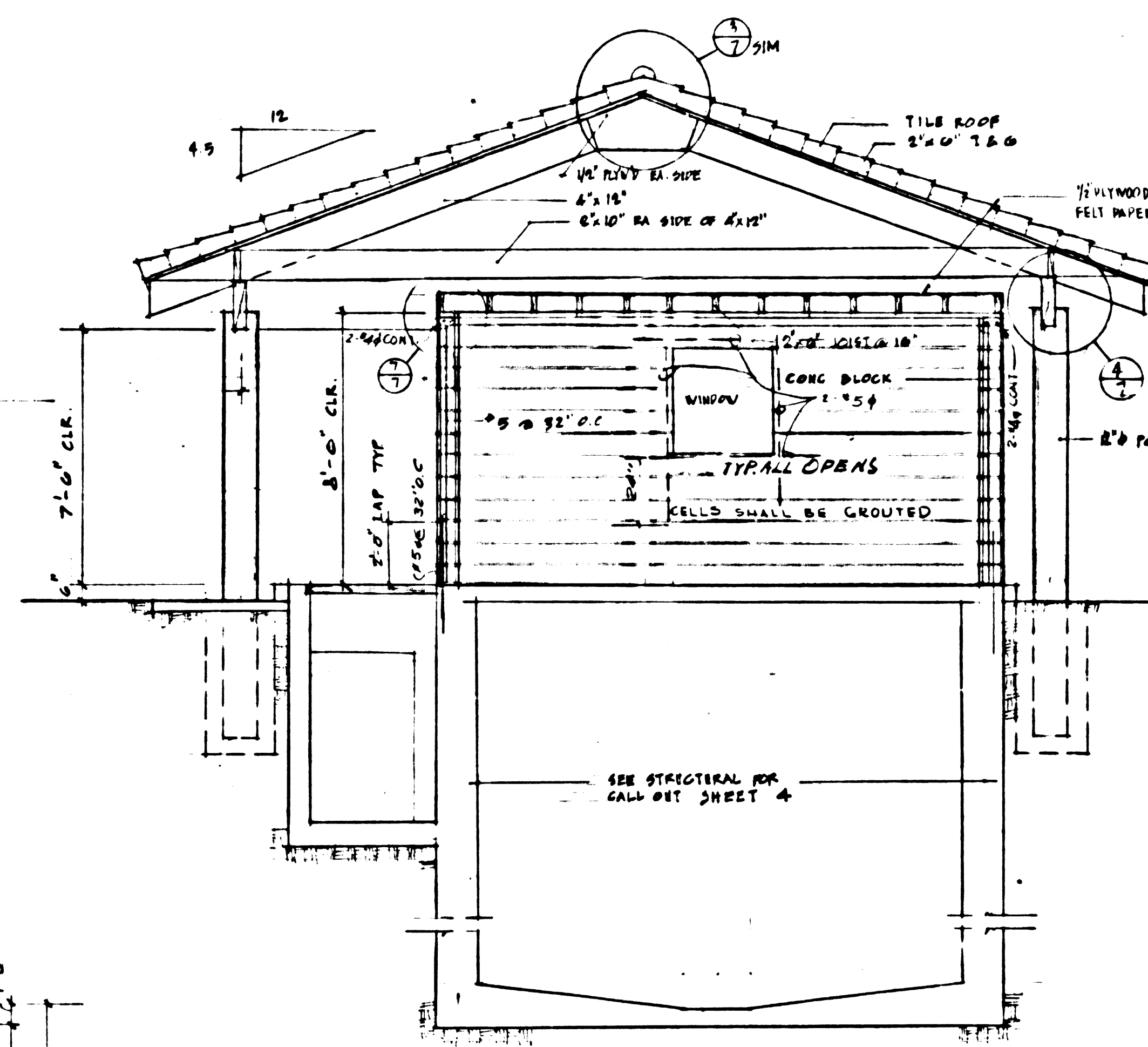
APPROVAL	DATE	ENGINEER	OCCIDENTAL ENGINEERING CO. CALIFORNIA	
			SCALE AS NOTED	DATE 9/24/62
			DRAWN BY JOAN ARCHA AYERS	FOR L. A. COUNTY ENGINEER
			CHECKED BY JAMES AYERS	PC 6971-B
			APPROVED BY	ELECTRICAL LAYOUT
				JOB NO 101001 DWG NO 6 OF 9 R-3

4 Gs. Metal Anglrs./Nails @ 3' O.C. NOTE:
 2" x 6" TREATED MUDPIPER BATTED W/ 1/2" x 10" ANKOR BOLTS @ 2' O.C. & 1'0" FROM CORNERS &
 JOINTS EDGE JOINTS 1'0" x 1/2" x 10" ANKOR BOLT @ 2' O.C. - CENTER NAILS 12" O.C.
 BLOCK AT ALL EDGES.

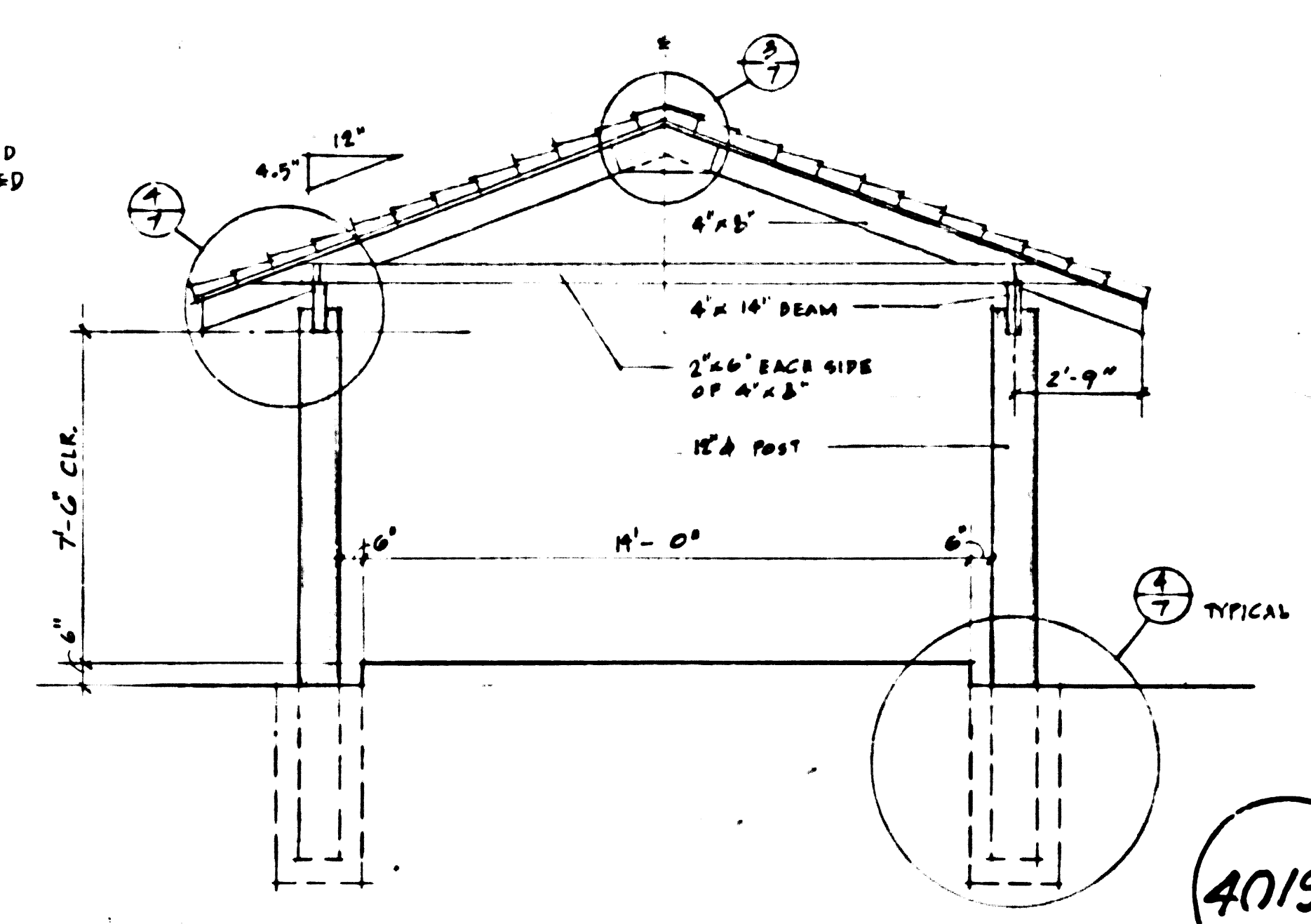
DETAIL 7



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

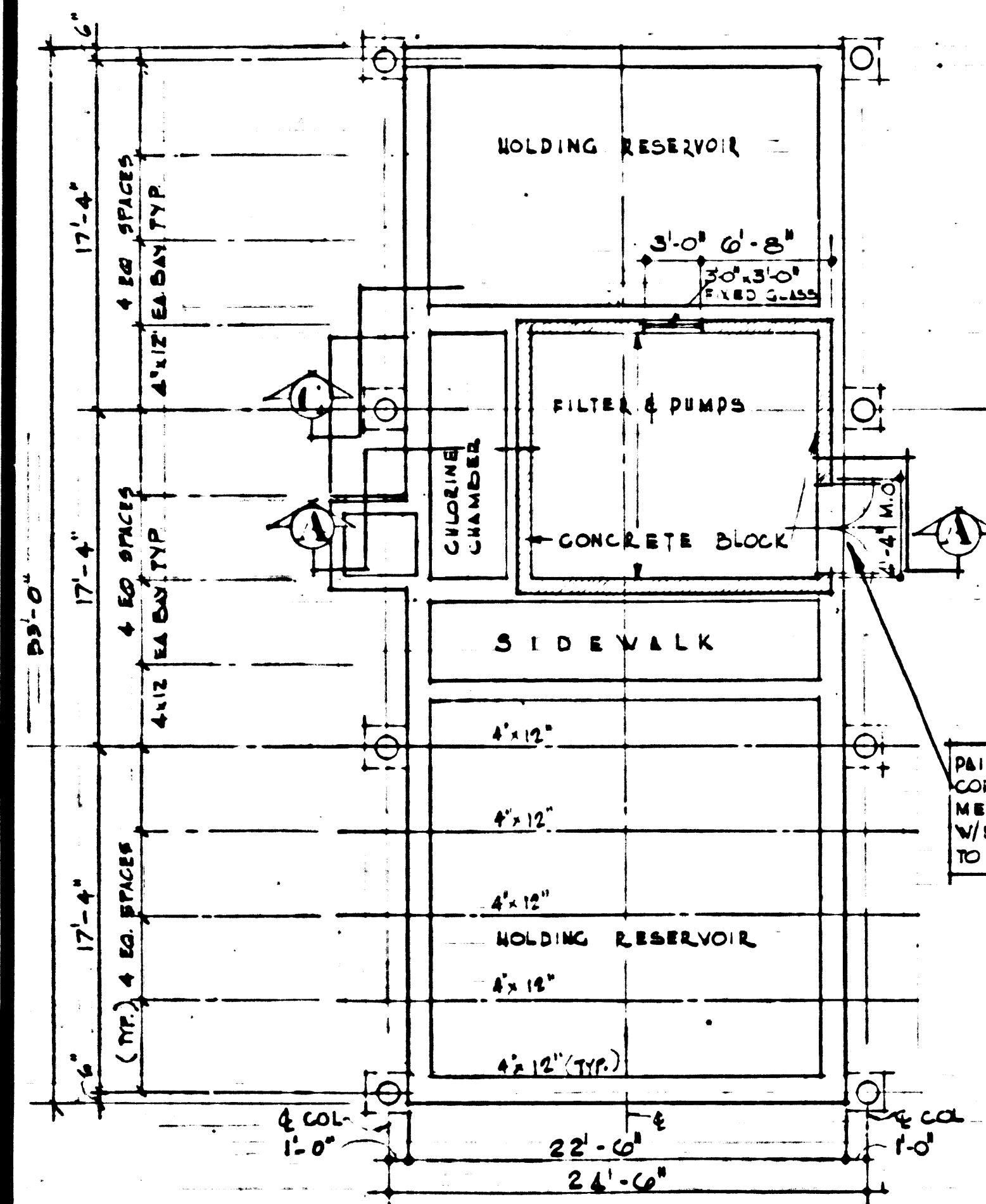


SECTION A-A
 SCALE 1/4" = 1'-0"

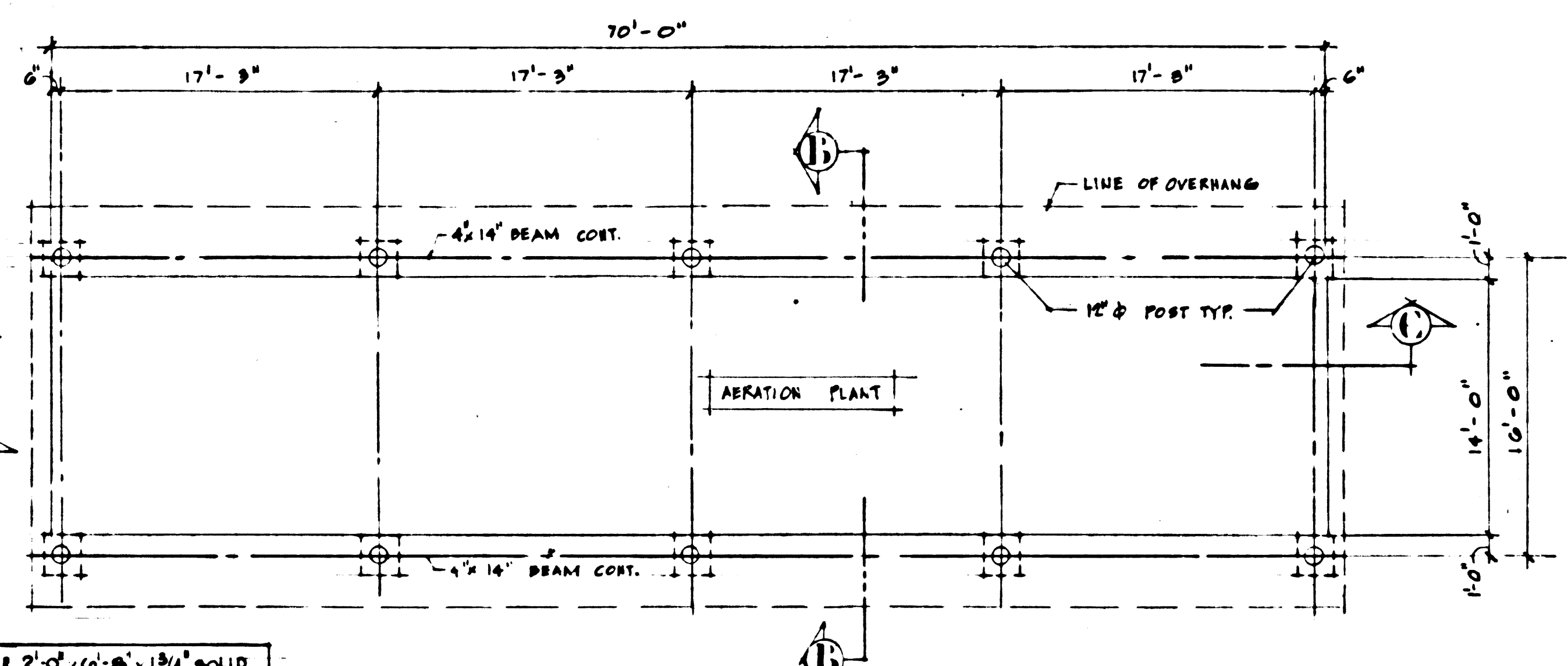


SECTION B-B
 SCALE 1/4" = 1'-0"

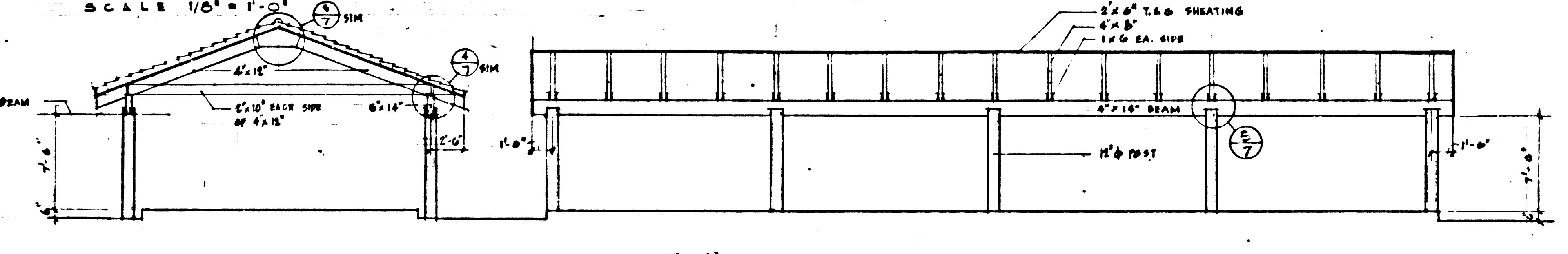
40198



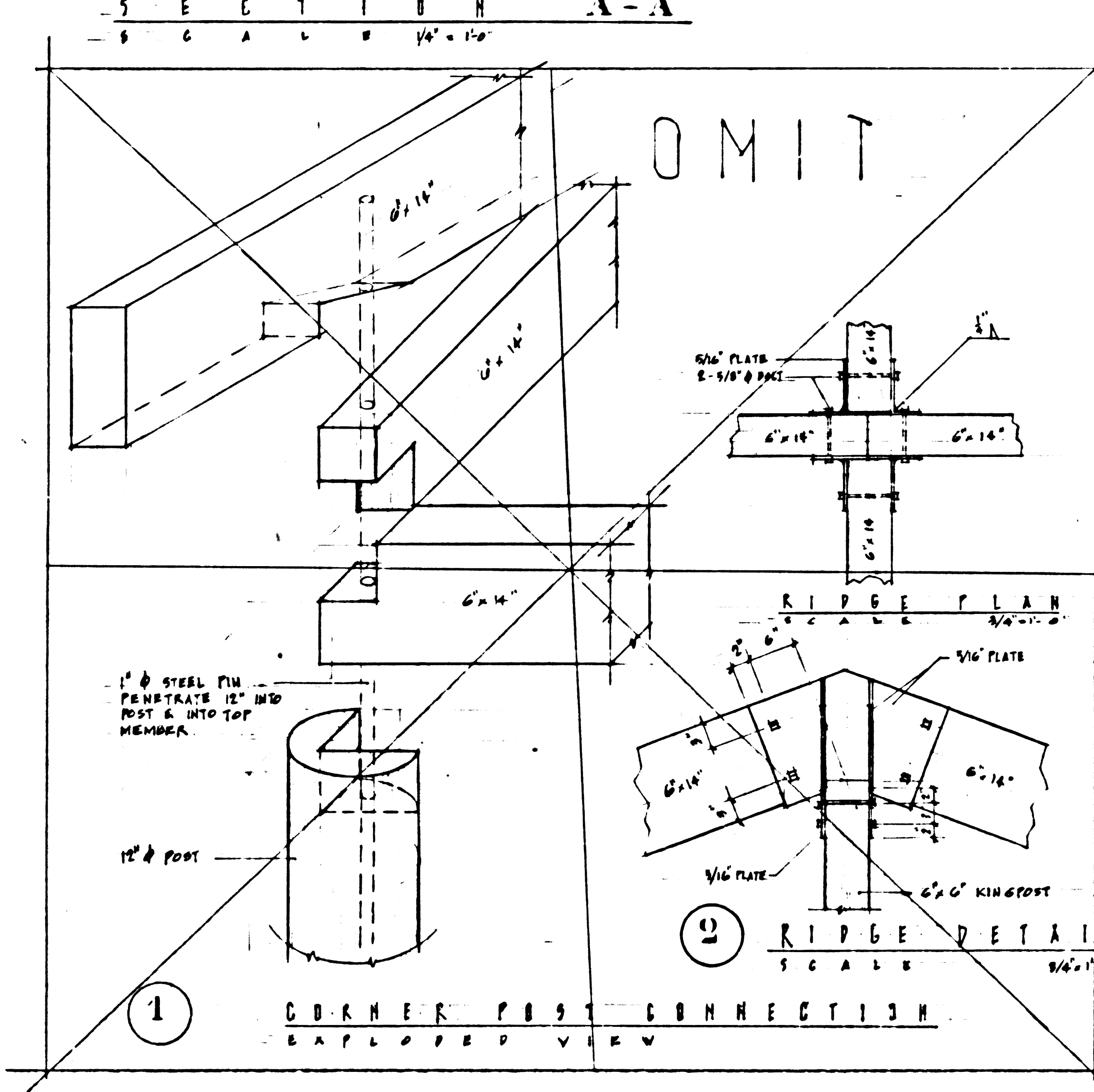
FOUNDATION & FRAMING PLAN
 SCALE 1/8" = 1'-0"



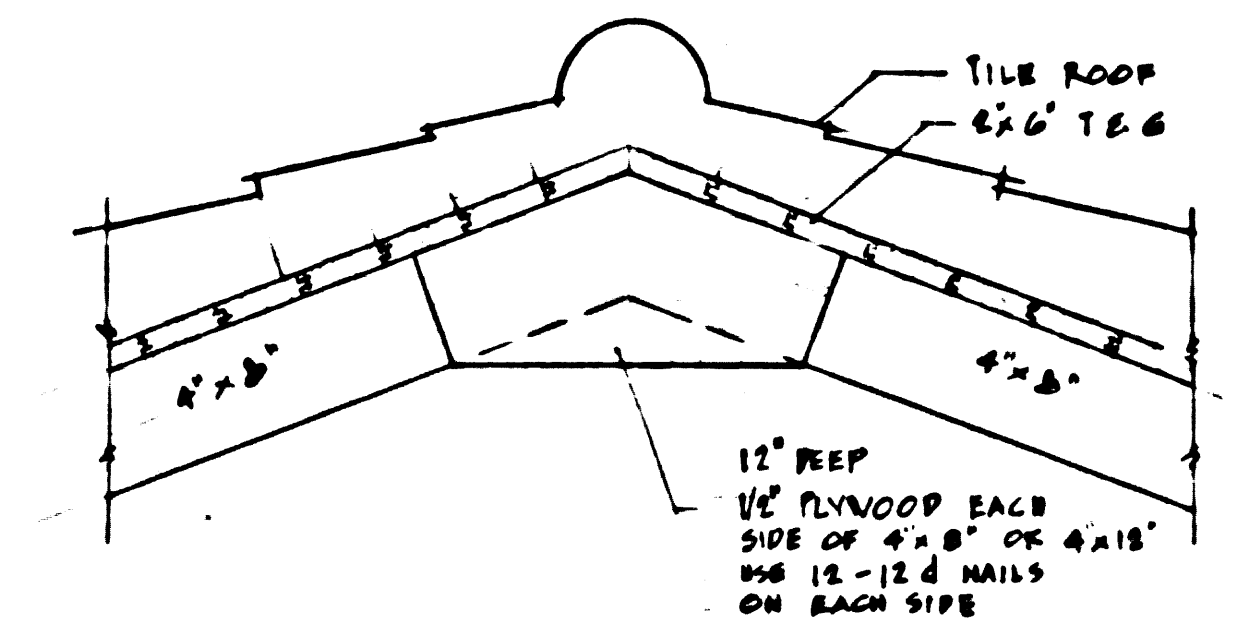
NOTE: 2" x 6" T.C.O. @ 12" O.C. SOLID CORE DOORS IN HOLLOW METAL FRAME - VERIFY SIZE W/ EQUIPMENT MFG. PRIOR TO STARTING CONSTRUCTION.



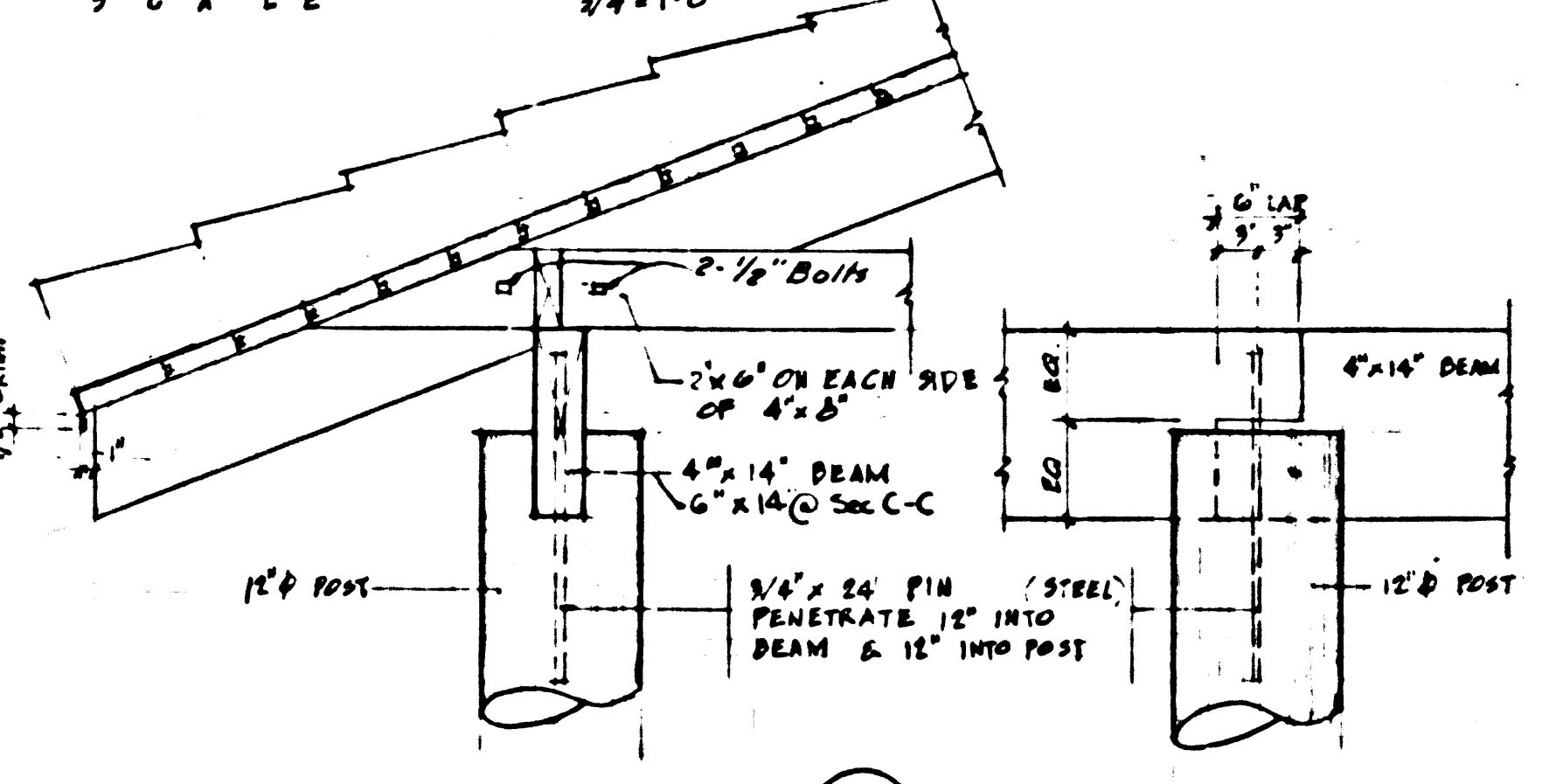
LONGITUDINAL SECTION C-C
 SCALE 1/8" = 1'-0"



CORNER POST CONNECTION
 SCALE 3/4" = 1'-0"

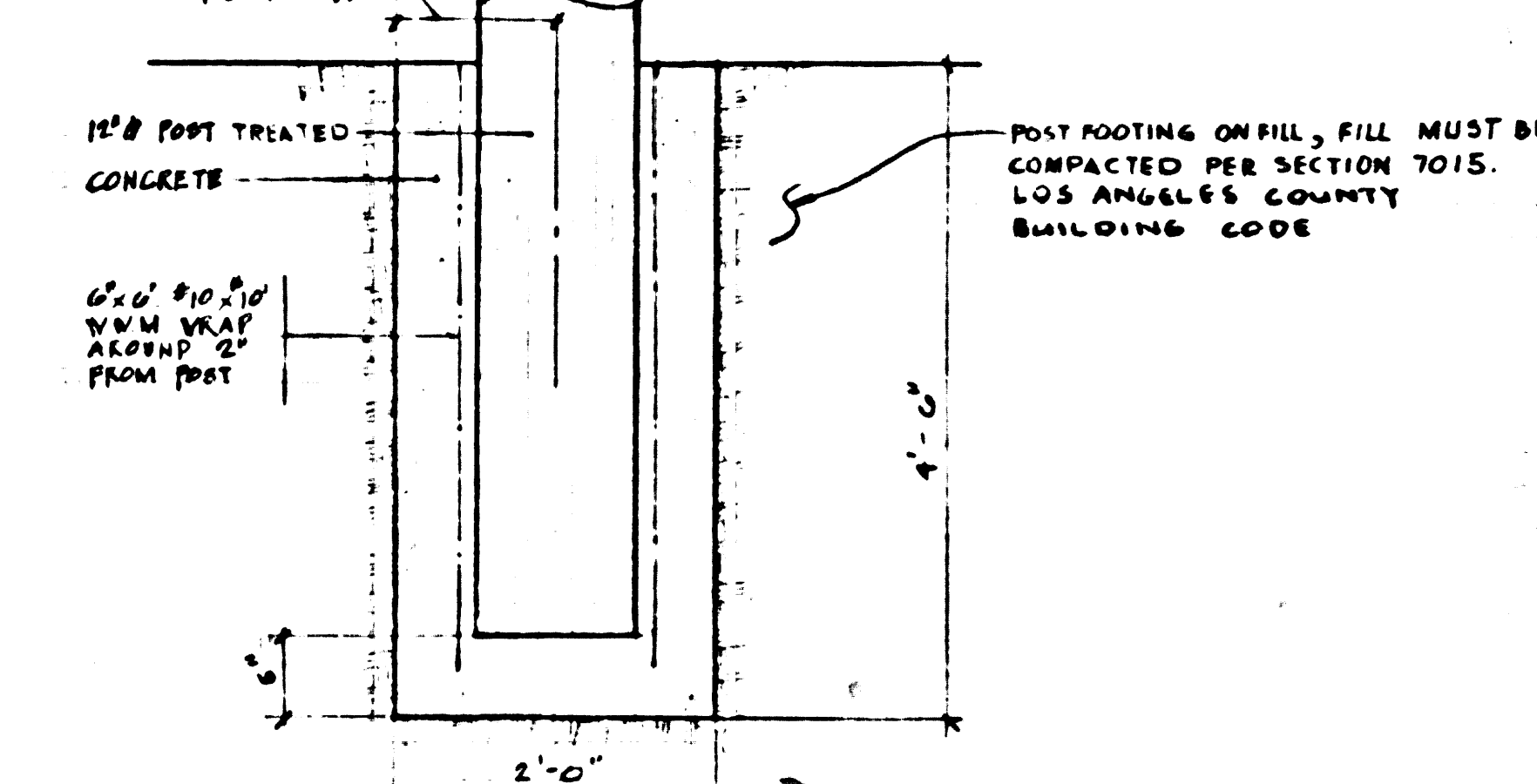


RIDGE DETAIL
 SCALE 3/4" = 1'-0"

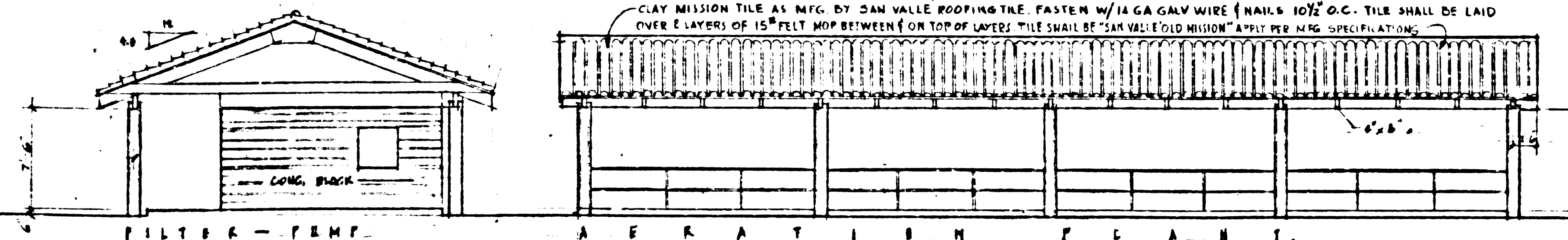


EAVE DETAIL
 SCALE 3/4" = 1'-0"

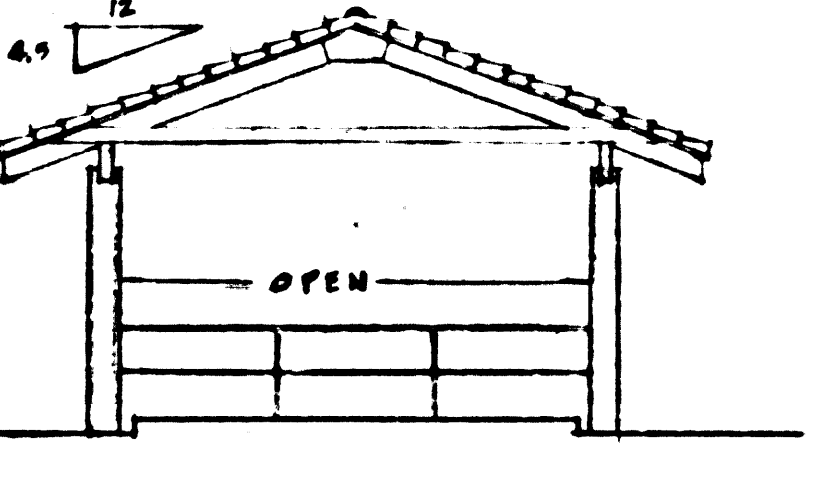
POST ANCHOR
 SCALE 3/4" = 1'-0"



FOUNDATION SECTION
 SCALE 3/4" = 1'-0"



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



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

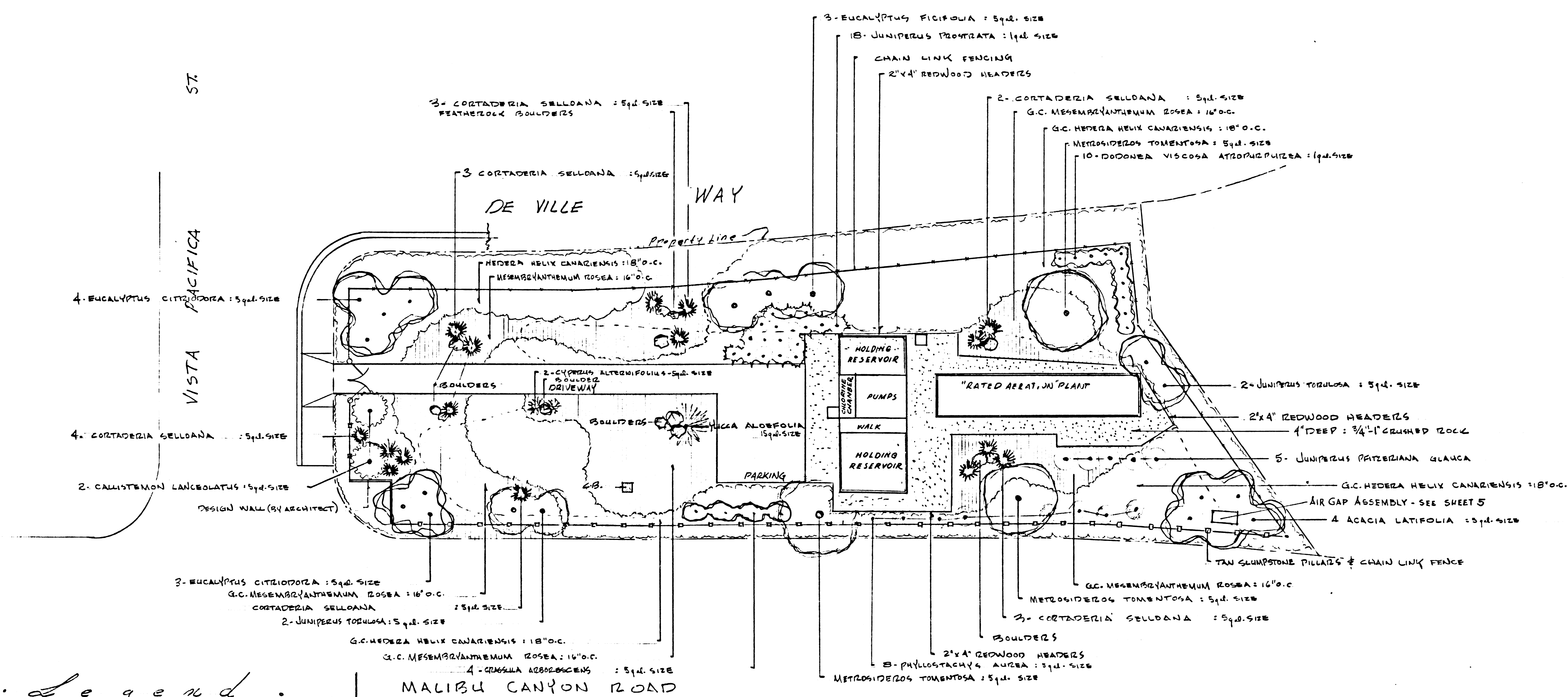
NOTES:
 1- USE - CONCRETE BLOCK GRADE "A" ASTM C90-S2
 2- 1" MORTAR - 1 PART PORTLAND CEMENT 2 1/2 PARTS SAND & 1/4 PART LIME
 3- 4" GROUT - 1 PART PORTLAND CEMENT 3 PARTS SAND & 1/2 PARTS GRAVEL
 4- 4" STEEL - INTERMEDIATE GRADE A-15 - DEFORMED PER ASTM A-305
 5- LUMBER - CONSTRUCTION GRADE - DOMESTIC FIR
 6- POSTS SHALL BE WOLMANIZED

NOTES:
 1- CONSTRUCT DOORS & WINDOWS LINTELS OF BOND CONC. BLOCKS
 2- INSTALL 2-5# BARS IN CELLS NEAR DOOR

ANGELIS & BATHY ARCHITECTS

APPROVAL	DATE	ENCL	SCALE	DATE	OCCIDENTAL ENGINEERING CO. CALIFORNIA		
					FOR: L.A. COUNTY ENGINEER		
					PC 6971-B		
					ARCHITECTURAL DETAILS		
					JOB NO 101001	DWG NO. 7 OF 9	R- 3

40199



- Legend*
- = GROUND COVER: MESEMBRYANTHEMUM ROSEA: 16" ON CENTER
 - = GROUND COVER: HEDERA HELIX NEEDLEPOINT: 18" ON CENTER
 - = 3/4" CRUSHED ROCK AREA (4 INCHES DEEP)
 - = FEATHER ROCK BOULDERS (MIN. SIZE 200 LB., MAX. 500 LB.)

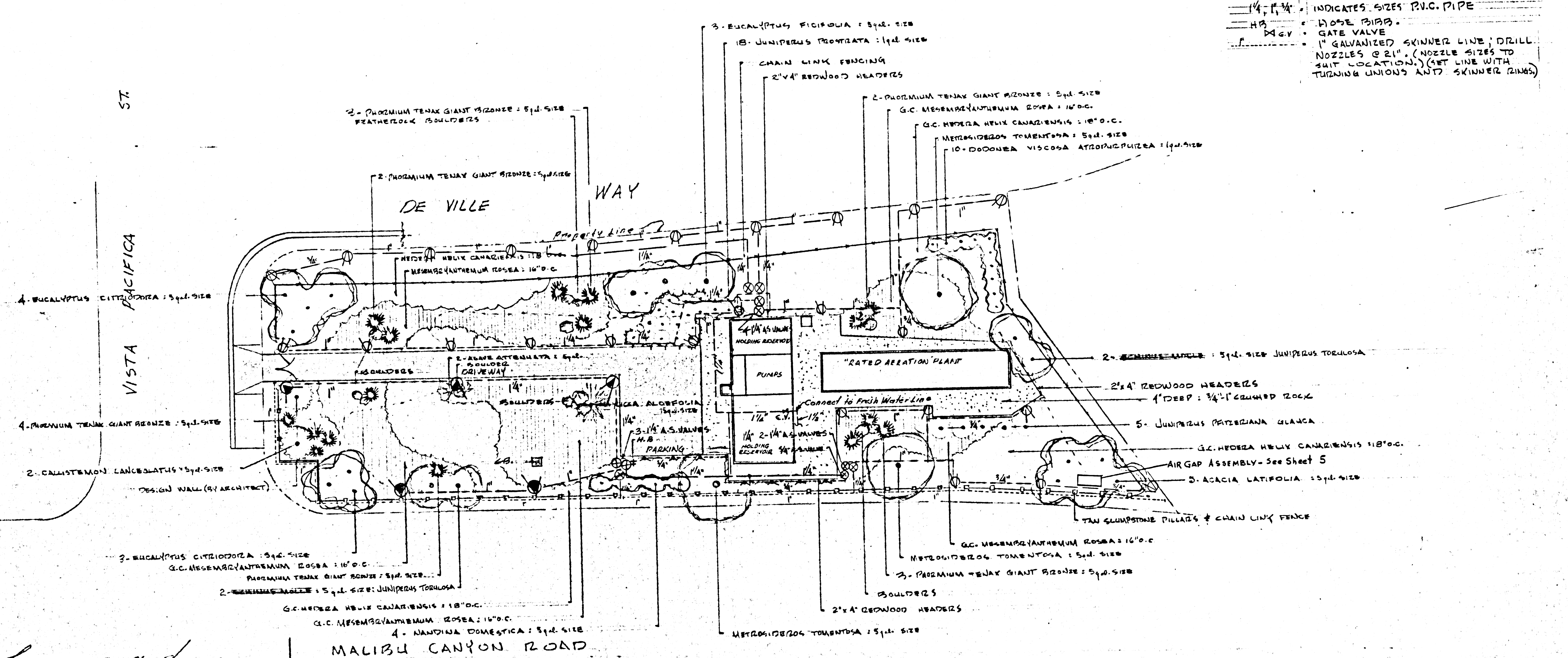
MALIBU CANYON ROAD

ROBERT F. WEAVER
 1642 DON CARLOS AVE. GLENDALE, CALIF. Landscape Architect
 FILE # C253

APPROVAL	DATE	ENCINO	OCcidental ENGINEERING CO. CALIFORNIA
		SCALE: 1" = 20'	FOR L. A. COUNTY ENGINEER
		DRAWN BY R.W.	PC 6971-B
		CHECKED BY	LANDSCAPING
		APPROVED BY	JOB NO. 101001 DWG. NO. 8 OF 9 R-3

ST

VISTA PACIFICA



Sprinkler Legend.

- ANTI-SIPHON SPRINKLER VALVES, SIZES AS NOTED. NORMALLY OPEN
- ⊕ THOMPSON ADJUSTABLE 1/4" OR 1/2" SPRAY HEADS.
- ⊙ # 25 RAINBIRDS
- ⊙ # 45 RAINBIRDS
- INDICATES SIZES P.V.C. PIPE
- HOSE BIBBS
- GATE VALVE
- 1" GALVANIZED SKINNER LINE; DRILL NOZZLES @ 21" (NOZZLE SIZES TO SUIT LOCATION); (SET LINE WITH TURNING UNIONS AND SKINNER PINN)

40200

Legend

- GEONOCYPER: MESEMBRYANTHEMUM ROSEA : 16" ON CENTER
- GEONOCYPER: HEDEERA HELIX NEEDLEPOINT : 18" ON CENTER
- 3/4" CRUSHED ROCK AREA (4" DEEP)
- ⊙ FEATHERLOCK BOLDERS (MIN. SIZE 200LB, MAX. 500LB.)

ROBERT E. WEAVER
 1642 DON CARLOS AVE. GLENDALE, CALIF.

Landscape Architect
 FILE # C253

APPROVAL	DATE	ENGINEER	OCcidental ENGINEERING CO. CALIFORNIA
		SCALE: 1" = 20'	FOR L. A. COUNTY ENGINEER
		DRAWN BY: R. W.	PC 6971: B
		CHECKED BY:	SPRINKLER SYSTEM
		APPROVED BY:	JOB NO. 101001 DWG. NO. 9 OF 9 R-3