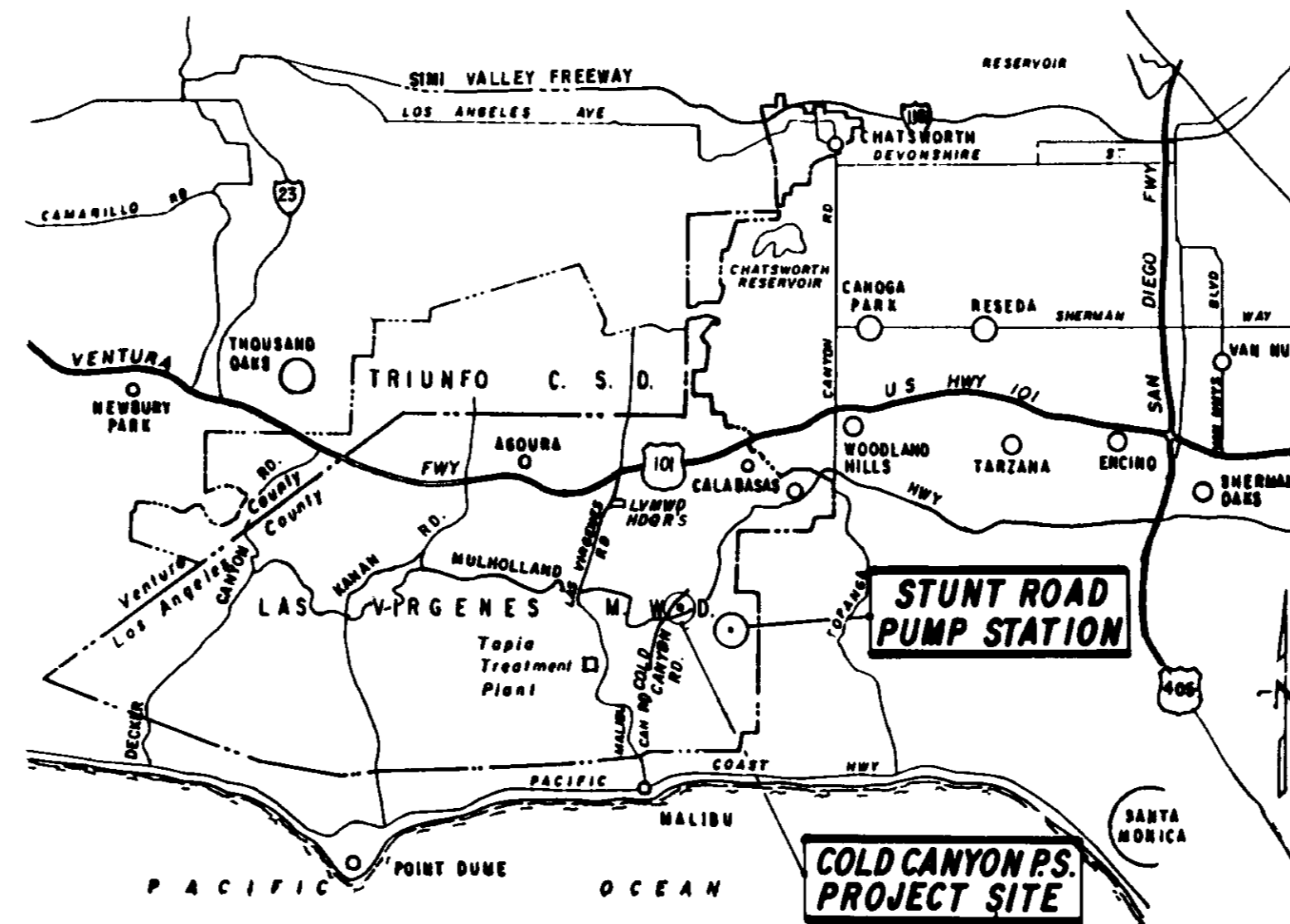


LAS VIRGENES MUNICIPAL WATER DISTRICT

LOS ANGELES COUNTY, CALIFORNIA

CONSTRUCTION PLANS FOR COLD CANYON PUMP STATION

SEE ALSO LANDSCAPE PLANS
FOR MISC. TANKS & PUMP STATIONS



1 0 1 2 3 4
SCALE IN MILES
VICINITY MAP

LAS VIRGENES MUNICIPAL WATER DISTRICT
LOS ANGELES COUNTY
BOARD OF DIRECTORS
05891

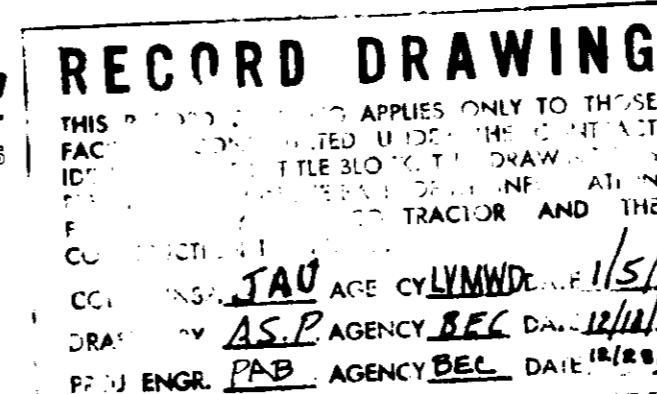
GLEN PETERSON - PRESIDENT
A. MACNEIL STELLE - STEVE GAVIN
HAROLD V. HELSLEY - ANN DORGELO
EDWARD E. McCOMBS - GENERAL MANAGER

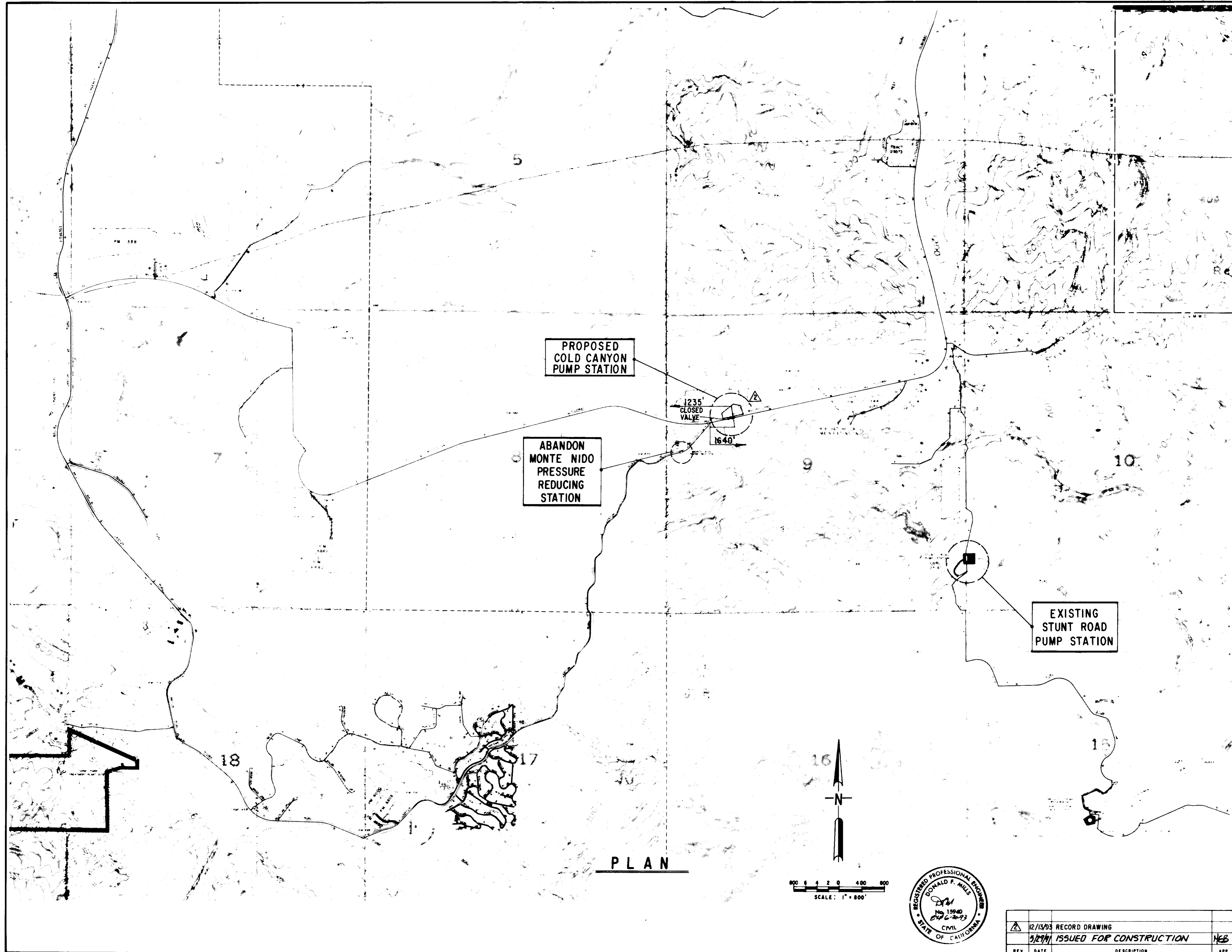
Approved by the Board of Directors
on this 8 day of APRIL 1991

BY *Glen Peterson*
GLEN PETERSON - PRESIDENT
BY *Harold V. Helsley*
HAROLD V. HELSLEY - SECRETARY
BY *Edward E. McCombs*
EDWARD E. McCOMBS GENERAL MANAGER
BY *James E. Colbaugh*
JAMES E. COLBAUGH
DIRECTOR OF PLANNING AND ENGINEERING

PLANS PREPARED BY
BOYLE ENGINEERING CORPORATION
consulting engineers / architects

Donald F. Mills
DONALD F. MILLS 4-8-91
MANAGING ENGINEER DATE





INDEX

1. TITLE SHEET
2. INDEX SHEET
3. SITE LAYOUT & R/W PLAN
4. GRADING PLAN
5. DRAINAGE DETAILS & ACCESS ROAD SECTION
6. HEAD AND END WALL DETAILS, MATERIAL LIST AND NOTES
7. ACCESS ROAD & YARD PIPING PROFILES
8. PIPING PLAN & SECTIONS
9. PIPING & MISCELLANEOUS DETAILS
10. SURGE TANK PLAN & ELEVATIONS
11. ELEVATIONS
12. ROOF & FLOOR PLANS
13. STRUCTURAL SECTIONS
14. STRUCTURAL DETAILS
15. RETAINING WALLS, FENCE AND GATE DETAILS
16. STUNT ROAD P.R.V.
17. ELECTRICAL SYMBOLS & DETAILS
18. SINGLE LINE & SCHEMATIC
19. ELECTRICAL SITE, POWER & LIGHTING PLANS
20. STUNT ROAD PUMP STATION ELECTRICAL MODIFICATIONS
21. INSTRUMENT LEGEND & SYMBOLS. BLOCK DIAGRAM
22. PROCESS & INSTRUMENTATION DIAGRAM
23. STUNT ROAD PUMP STATION P & I DIAGRAM
24. PANEL LAYOUTS

RECORD DRAWING
 THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES CONSTRUCTED UNDER THE CONTRACT IDENTIFIED IN THE TITLE BLOCK. THIS DRAWING HAS BEEN PREPARED ON THE BASIS OF INFORMATION PROVIDED BY THE CONTRACTOR AND THE CONSTRUCTION LOGS.
 CLIENT: INS. J.A.V. AGENCY: CIVIL/MSWD DATE: 1/4/19
 DRAFTED BY: A.S.P. AGENCY: BEC DATE: 12/18/18
 PROJ. ENGR. TAB AGENCY: BEC DATE: 1/4/19

COLD CANYON PUMP STATION ADDRESS:
 1830 COLD CANYON ROAD
 CALABASAS, CA. 91302
05892

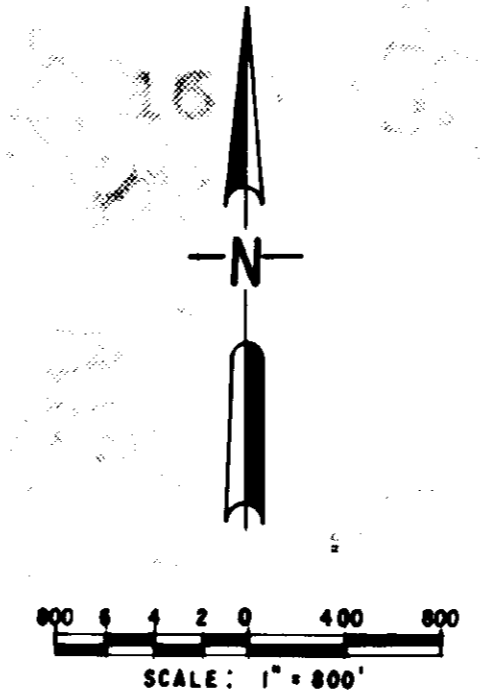
LAS VIRGENES MUNICIPAL WATER DISTRICT
 COLD CANYON PUMP STATION
INDEX SHEET

BOYLE ENGINEERING CORPORATION
 consulting engineers | architects
 VENTURA, CA

Donald F. Mills DATE: 4-8-19 SHEET NO. 2

DESIGN	DRAWN	CHECKED	C.A. NO.	DRAWING NO.
M.D./M.E.B.	A.S.P.	HEB	MT-02-M3-03	S-225

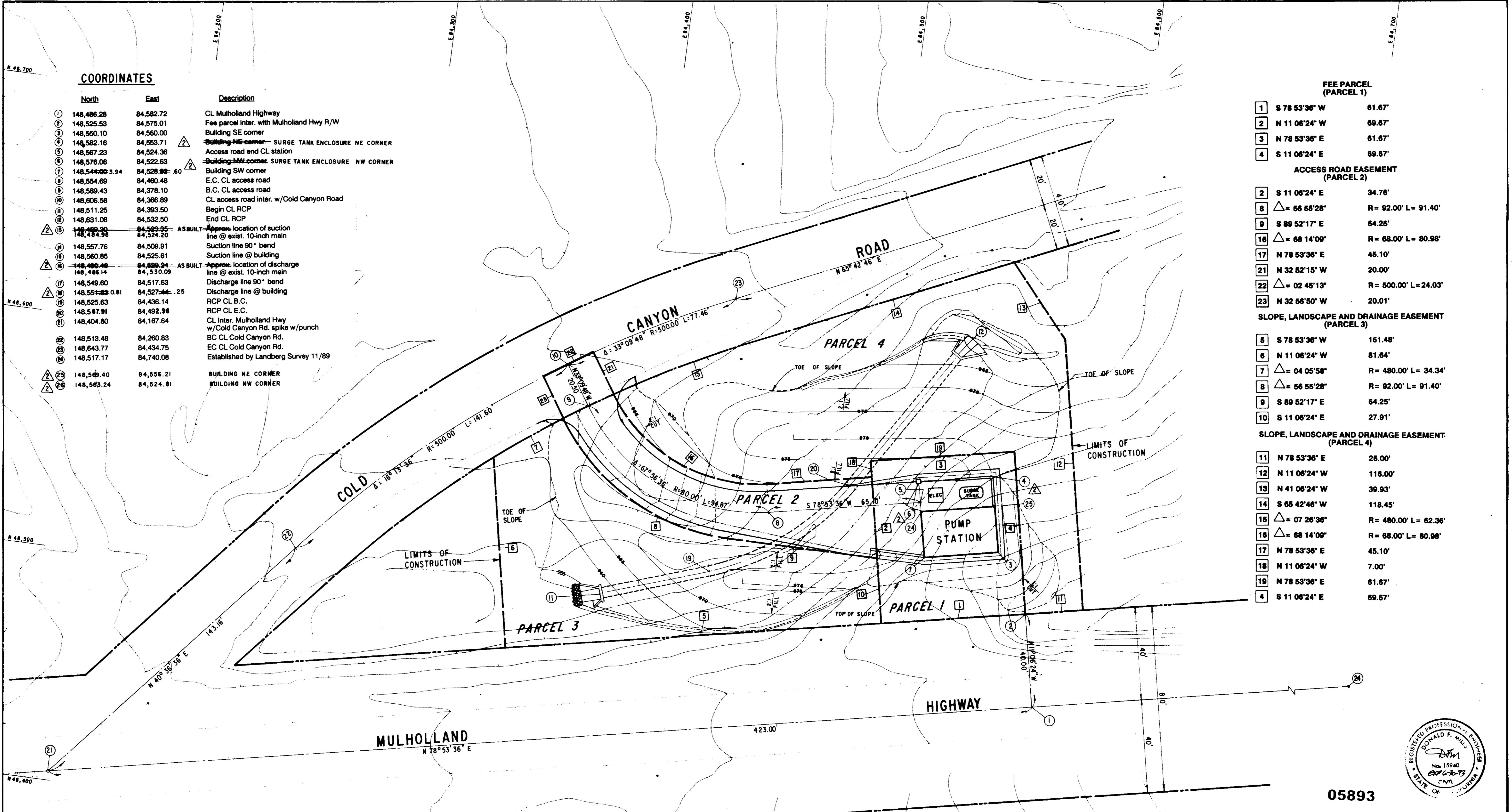
OF 24 SHEETS



PLAN

COORDINATES

	North	East	Description
①	148,486.28	84,582.72	CL Mulholland Highway
②	148,525.53	84,575.01	Fee parcel inter. with Mulholland Hwy R/W
③	148,550.10	84,560.00	Building SE corner
④	148,582.16	84,553.71	Building NE corner SURGE TANK ENCLOSURE NE CORNER
⑤	148,567.23	84,524.36	Access road end CL station
⑥	148,576.06	84,522.63	Building NW corner SURGE TANK ENCLOSURE NW CORNER
⑦	148,544.69	84,528.60	Building SW corner
⑧	148,554.69	84,460.48	E.C. CL access road
⑨	148,589.43	84,378.10	B.C. CL access road
⑩	148,606.58	84,366.89	CL access road inter. w/Cold Canyon Road
⑪	148,511.25	84,393.50	Begin CL RCP
⑫	148,631.08	84,532.50	End CL RCP
⑬	148,486.30	84,523.35	AS BUILT - Approx. location of suction line @ exist. 10-inch main
⑭	148,484.98	84,524.20	Suction line @ building
⑮	148,557.76	84,509.91	Suction line 90° bend
⑯	148,560.85	84,525.61	Suction line @ building
⑰	148,486.48	84,530.94	AS BUILT - Approx. location of discharge line @ exist. 10-inch main
⑱	148,486.14	84,530.09	Discharge line 90° bend
⑲	148,549.60	84,517.63	Discharge line @ building
⑳	148,551.33	84,527.44	RCP CL B.C.
㉑	148,525.63	84,436.14	RCP CL E.C.
㉒	148,567.91	84,492.96	CL Inter. Mulholland Hwy w/Cold Canyon Rd. spike w/punch
㉓	148,404.80	84,167.64	EC CL Cold Canyon Rd. Established by Landberg Survey 11/89
㉔	148,513.48	84,260.83	BC CL Cold Canyon Rd.
㉕	148,643.77	84,434.75	EC CL Cold Canyon Rd.
㉖	148,517.17	84,740.08	
㉗	148,569.40	84,556.21	BUILDING NE CORNER
㉘	148,563.24	84,524.81	BUILDING NW CORNER



FEE PARCEL (PARCEL 1)		
1	S 78°53'36" W	61.67'
2	N 11°06'24" W	69.67'
3	N 78°53'36" E	61.67'
4	S 11°06'24" E	69.67'

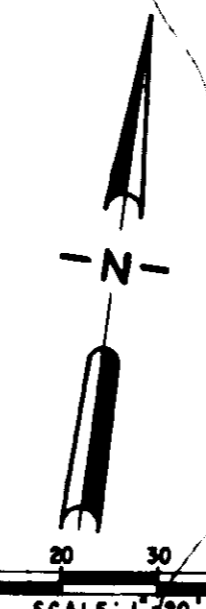
ACCESS ROAD EASEMENT (PARCEL 2)		
2	S 11°06'24" E	34.76'
8	△ = 56°55'28"	R = 92.00' L = 91.40'
9	S 89°52'17" E	64.25'
16	△ = 68°14'09"	R = 68.00' L = 80.98'
17	N 78°53'36" E	45.10'
21	N 32°52'15" W	20.00'
22	△ = 02°45'13"	R = 500.00' L = 24.03'
23	N 32°56'50" W	20.01'

SLOPE, LANDSCAPE AND DRAINAGE EASEMENT (PARCEL 3)		
5	S 78°53'36" W	161.48'
6	N 11°06'24" W	81.64'
7	△ = 04°05'58"	R = 480.00' L = 34.34'
8	△ = 56°55'28"	R = 92.00' L = 91.40'
9	S 89°52'17" E	64.25'
10	S 11°06'24" E	27.91'

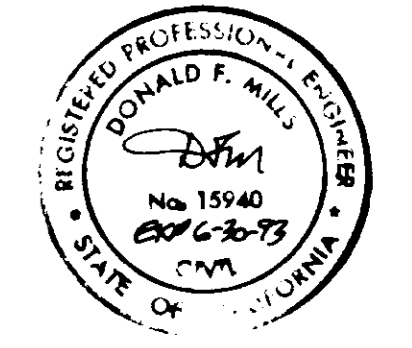
SLOPE, LANDSCAPE AND DRAINAGE EASEMENT (PARCEL 4)		
11	N 78°53'36" E	25.00'
12	N 11°06'24" W	116.00'
13	N 41°06'24" W	39.93'
14	S 65°42'46" W	118.45'
15	△ = 07°26'36"	R = 480.00' L = 62.36'
16	△ = 68°14'09"	R = 68.00' L = 80.98'
17	N 78°53'36" E	45.10'
18	N 11°06'24" W	7.00'
19	N 78°53'36" E	61.67'
4	S 11°06'24" E	69.67'

LEGEND

———	FEE PARCEL
- - - - -	EASEMENTS
———	ROAD R/W



RECORD DRAWING
 THIS RECORD DRAWING APPLIES ONLY TO THESE FACILITIES CONSTRUCTED UNDER THE CONTRACT IDENTIFIED IN THE TITLE BLOCK OF THIS DRAWING. IT IS NOT TO BE USED IN THE BAY AREA OR ANYWHERE ELSE WITHOUT THE CONTRACTOR AND THE CONSULTING ENGINEER'S APPROVAL.
 CONTRACT INSPECTION AGENCY: **UNWD** DATE: **1/1/94**
 DRAFTED BY: **A.S.P.** AGENCY: **BEC** DATE: **12/13/93**
 PROJ. ENGR: **PHB** AGENCY: **BEC** DATE: **12/13/93**



05893

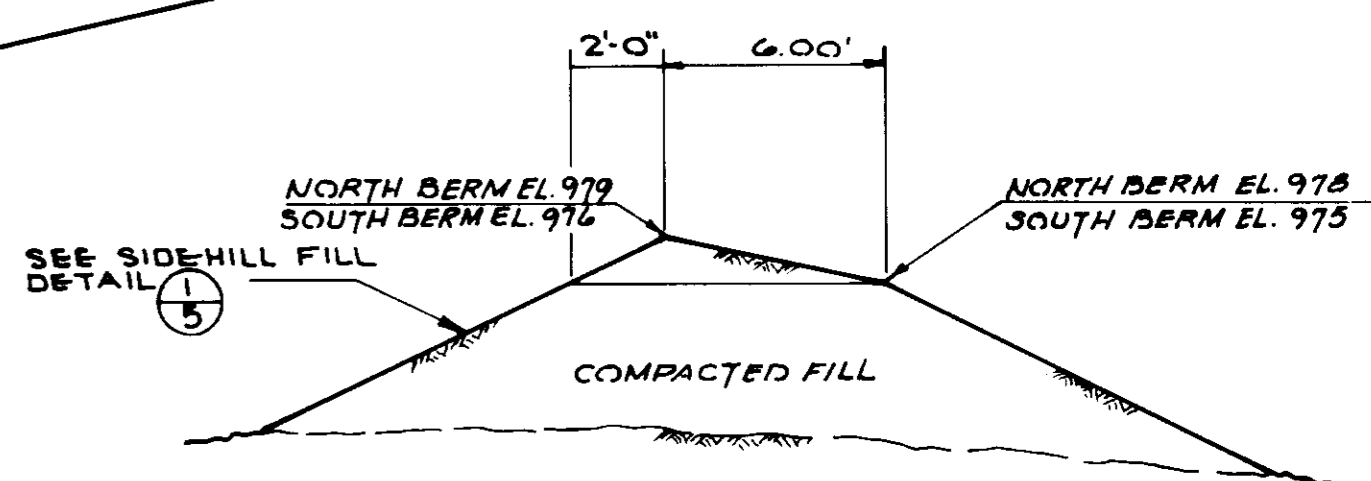
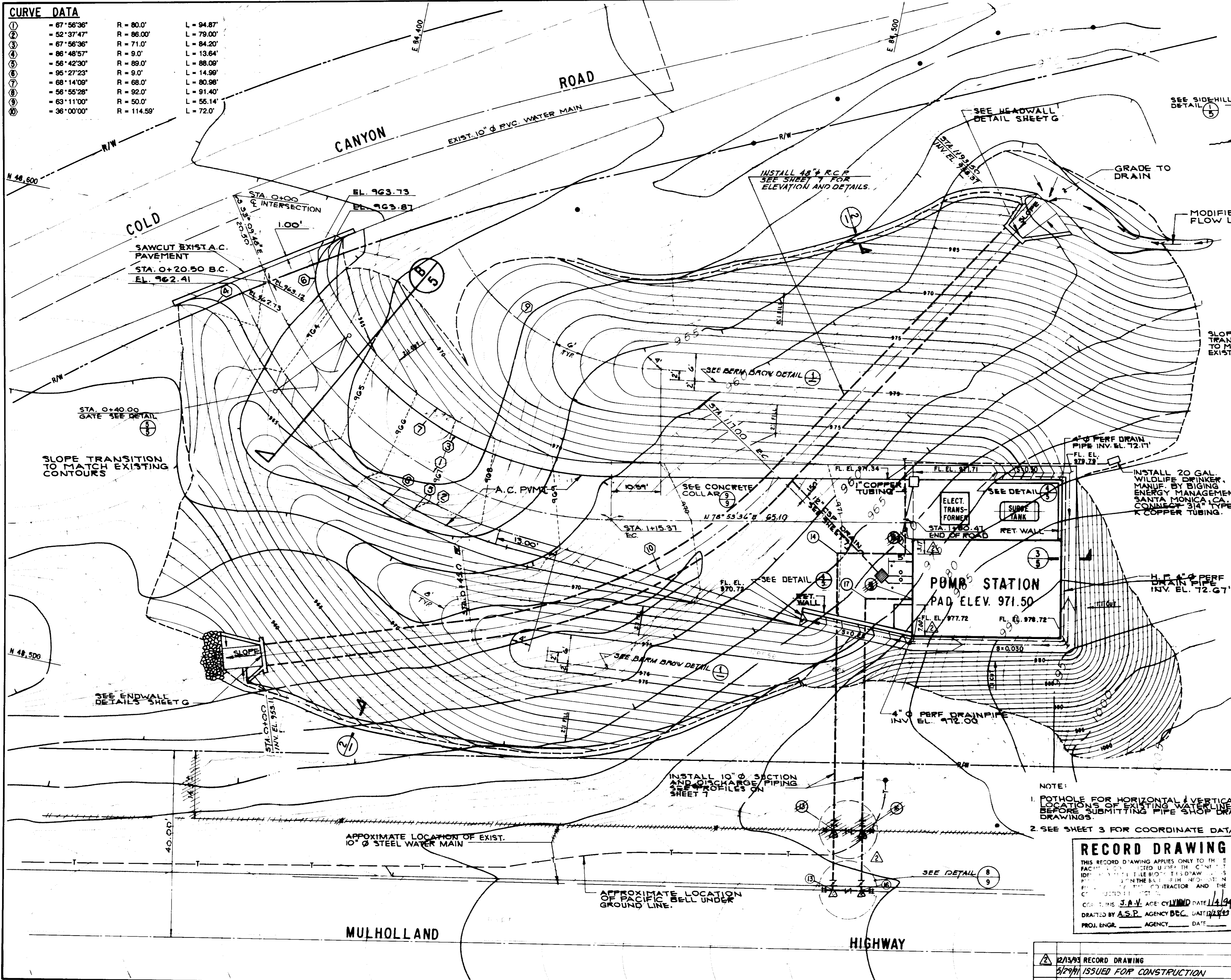
LAS VIRGENES MUNICIPAL WATER DISTRICT
 COLD CANYON PUMP STATION
 SITE LAYOUT & R/W PLAN

BOYLE ENGINEERING CORPORATION
 consulting engineers & architects
 VENTURA, CA

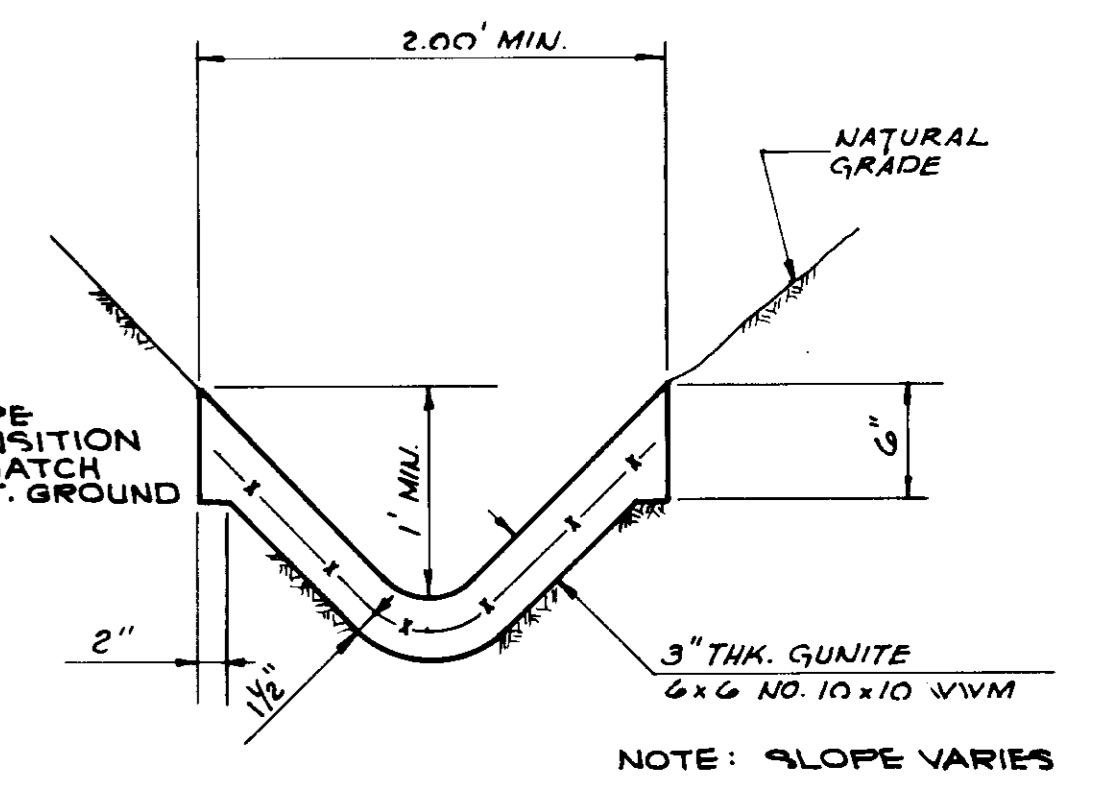
12/13/93	RECOR DRAWING			
12/13/93	ISSUED FOR CONSTRUCTION			
REV	DATE	DESCRIPTION	APP	

CURVE DATA

①	- 67° 56' 36"	R = 80.0'	L = 94.87'
②	- 52° 37' 47"	R = 86.00'	L = 79.00'
③	- 67° 56' 36"	R = 71.0'	L = 84.20'
④	- 86° 48' 57"	R = 9.0'	L = 13.64'
⑤	- 56° 42' 30"	R = 89.0'	L = 88.09'
⑥	- 95° 27' 23"	R = 9.0'	L = 14.99'
⑦	- 68° 14' 09"	R = 68.0'	L = 80.98'
⑧	- 56° 55' 28"	R = 92.0'	L = 91.40'
⑨	- 63° 11' 00"	R = 50.0'	L = 55.14'
⑩	- 36° 00' 00"	R = 114.59'	L = 72.0'



BERM BROW DETAIL
NOT TO SCALE



V-DITCH TYP.-DETAIL
NOT TO SCALE

LEGEND

- PROPOSED WATER LINE
- EXISTING WATER MAIN
- EXISTING TELEPHONE LINE
- ROAD CENTERLINE
- FLOW LINE
- 975 CONTOUR LINE

NOTE:
1. POTHOLE FOR HORIZONTAL / VERTICAL LOCATIONS OF EXISTING WATER MAIN BEFORE SUBMITTING PIPE SHOP DRAWINGS.
2. SEE SHEET 3 FOR COORDINATE DATA.

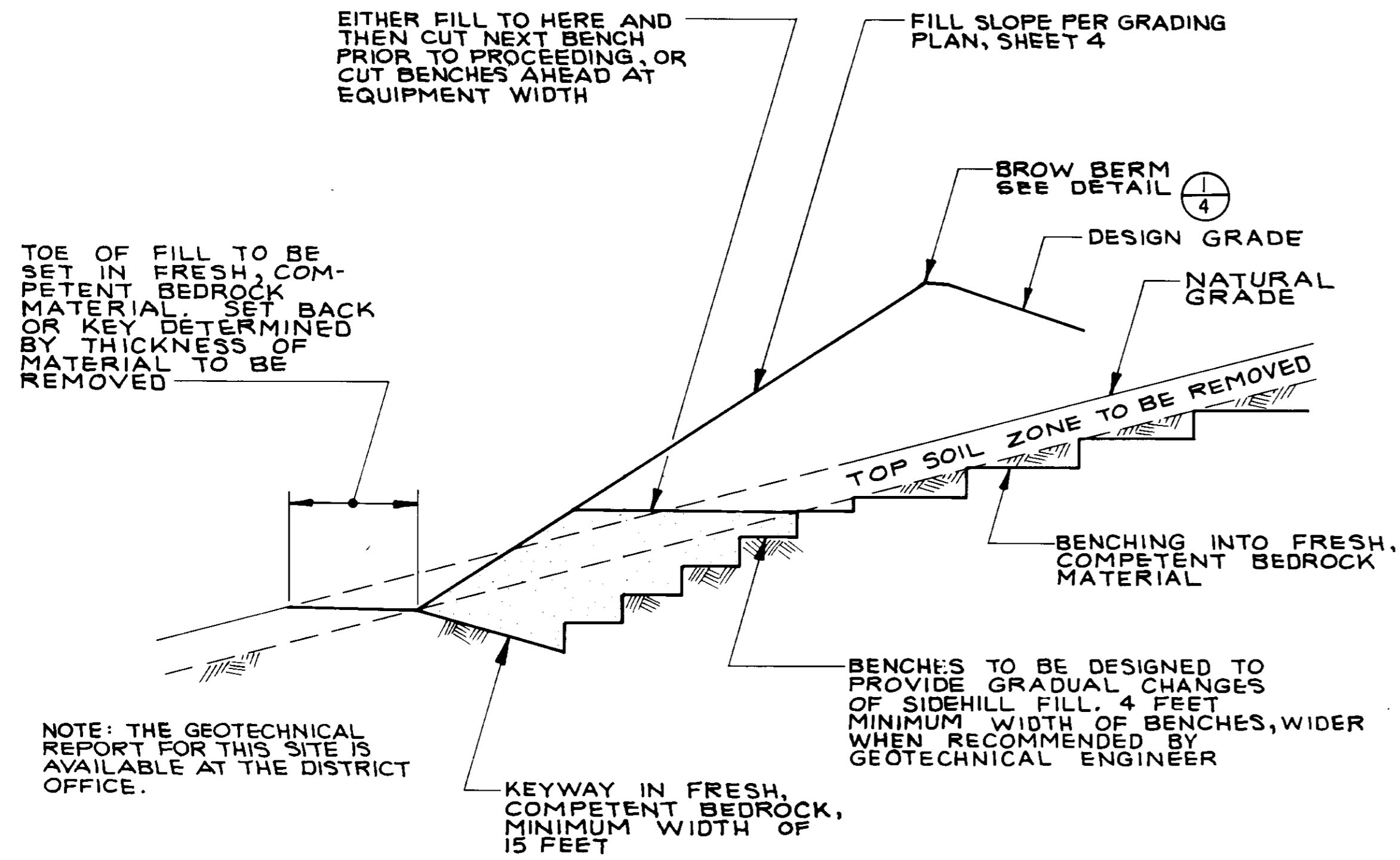
RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THE FACILITY IDENTIFIED ON THIS DRAWING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONSULTING ENGINEER TO VERIFY THE LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION.
DRAWN BY: J.A.V. DATE: 1/14/94
CHECKED BY: A.S.P. DATE: 1/14/94
PROJ. ENGR. _____ AGENCY _____ DATE _____

05894

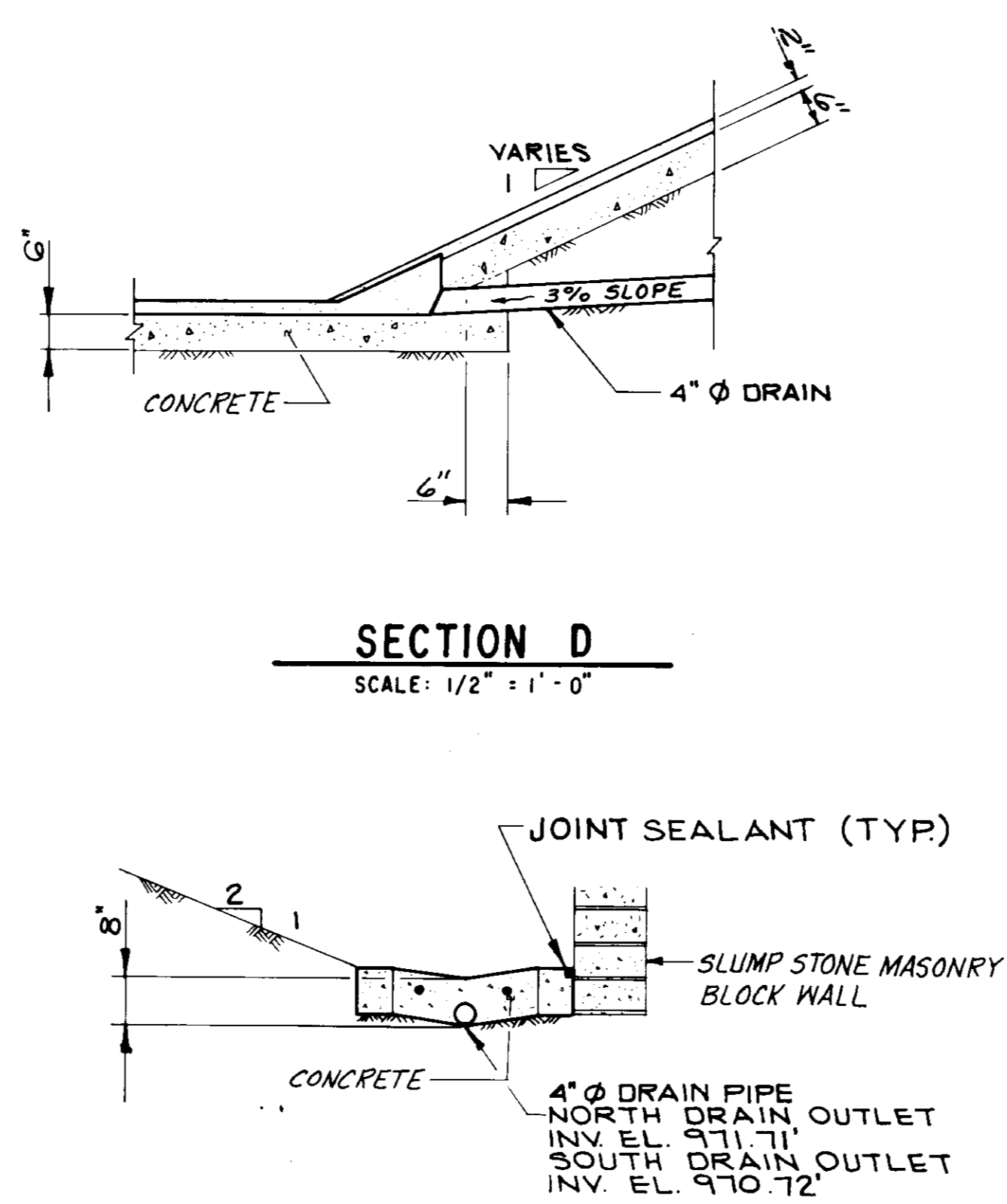
LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
GRADING PLAN

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consulting engineers | architects
VENTURA, CA

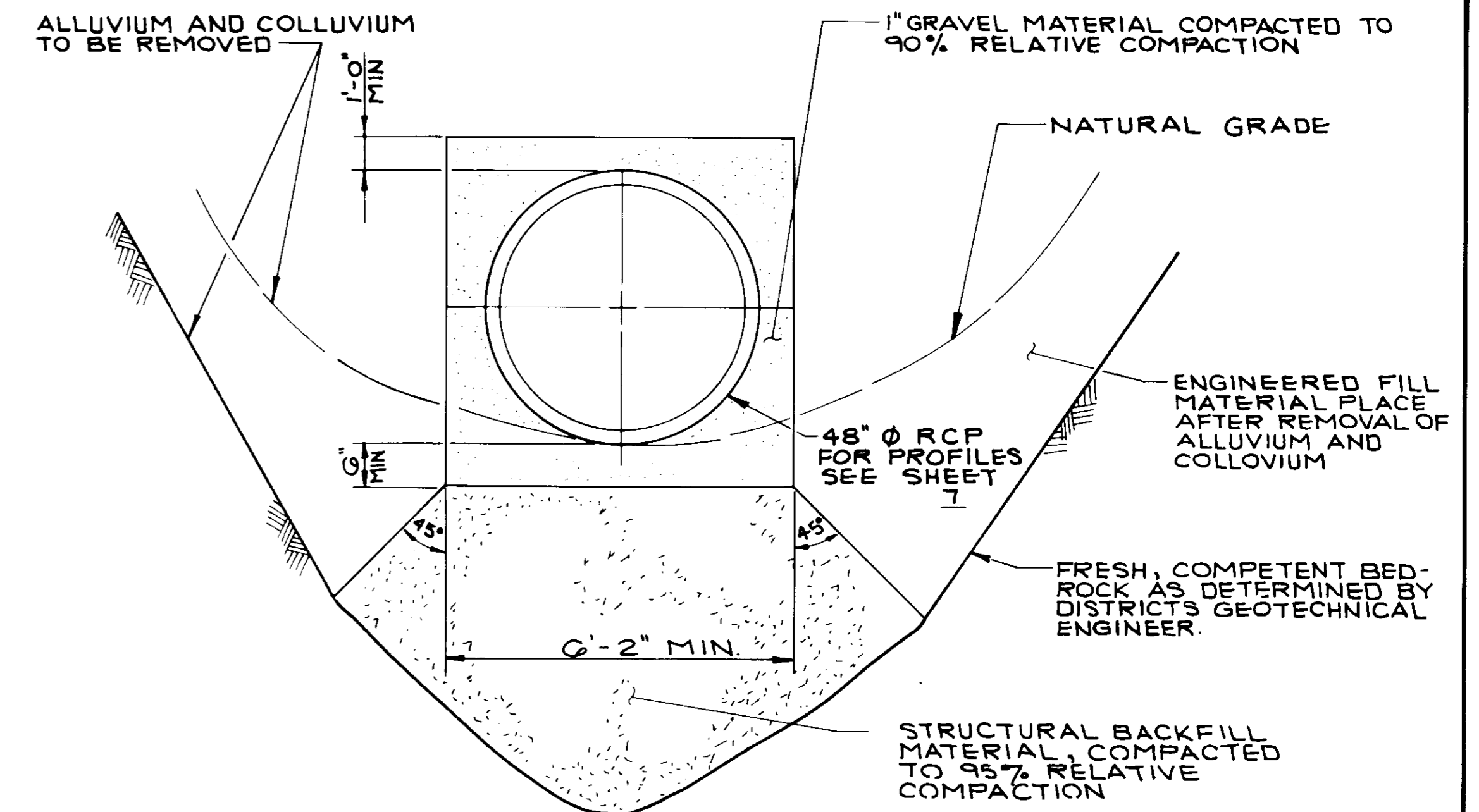
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M.D./M.E.B.	A.S.P.	D.F.M.	VT-102-103	S-225	4



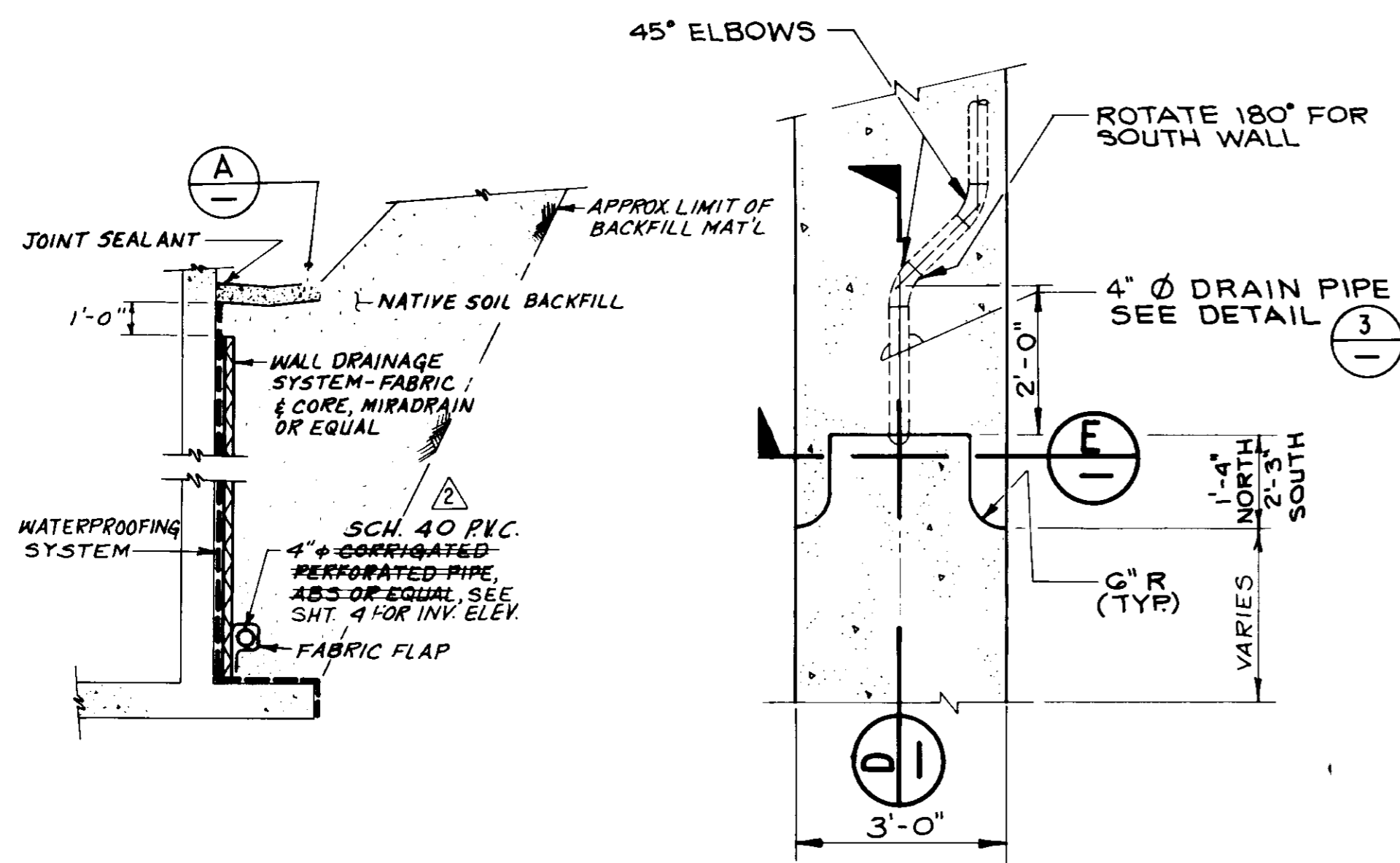
SIDEHILL FILL DETAIL 1
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SECTION E
SCALE: 1/2" = 1'-0"

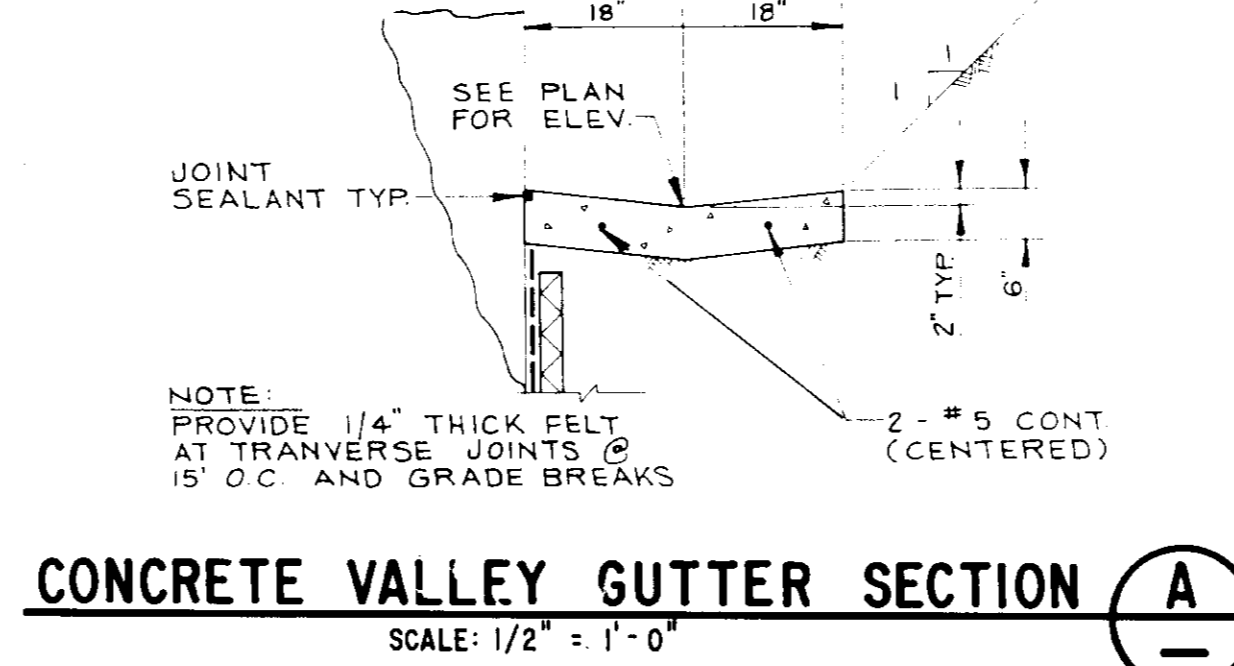


DRAINAGE PIPE BEDDING DETAIL 2
NOT TO SCALE

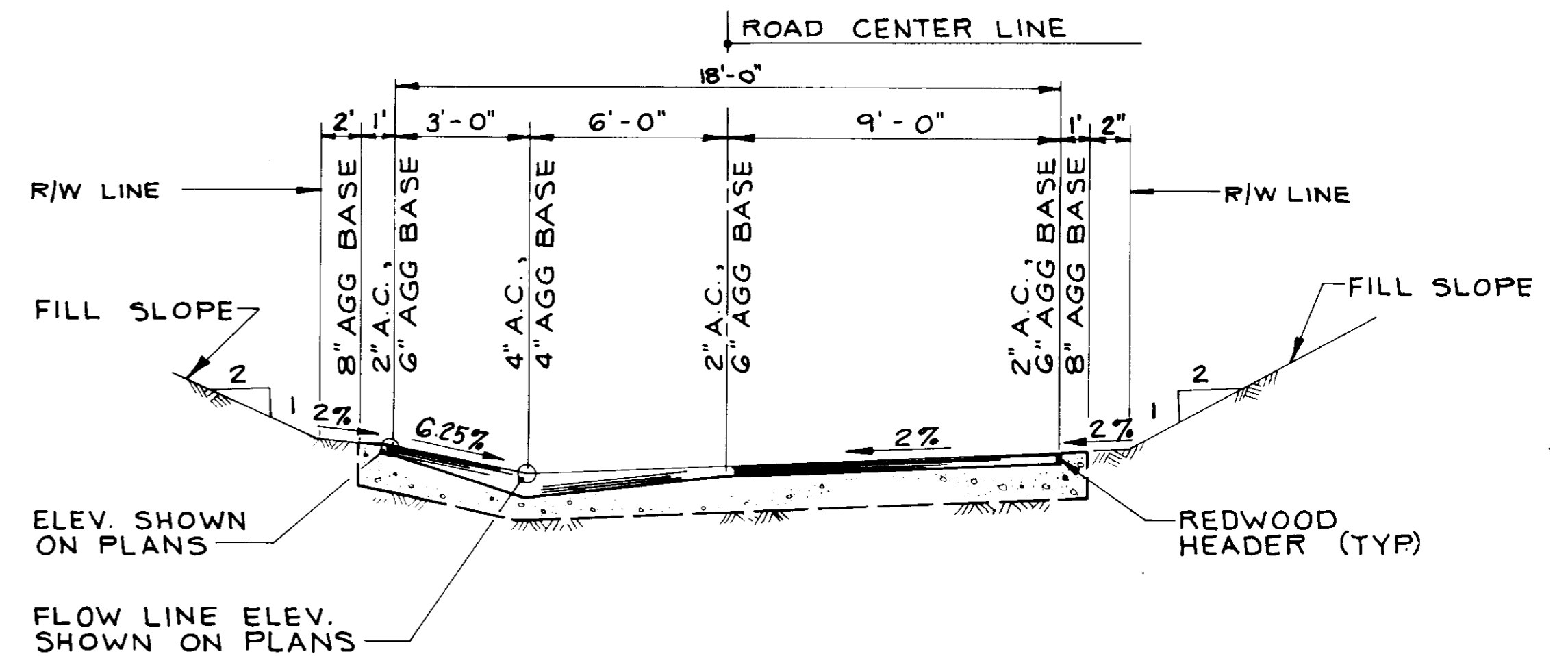


WALL BACKFILL/DRAINAGE SYSTEM - DETAIL 3
NOT TO SCALE

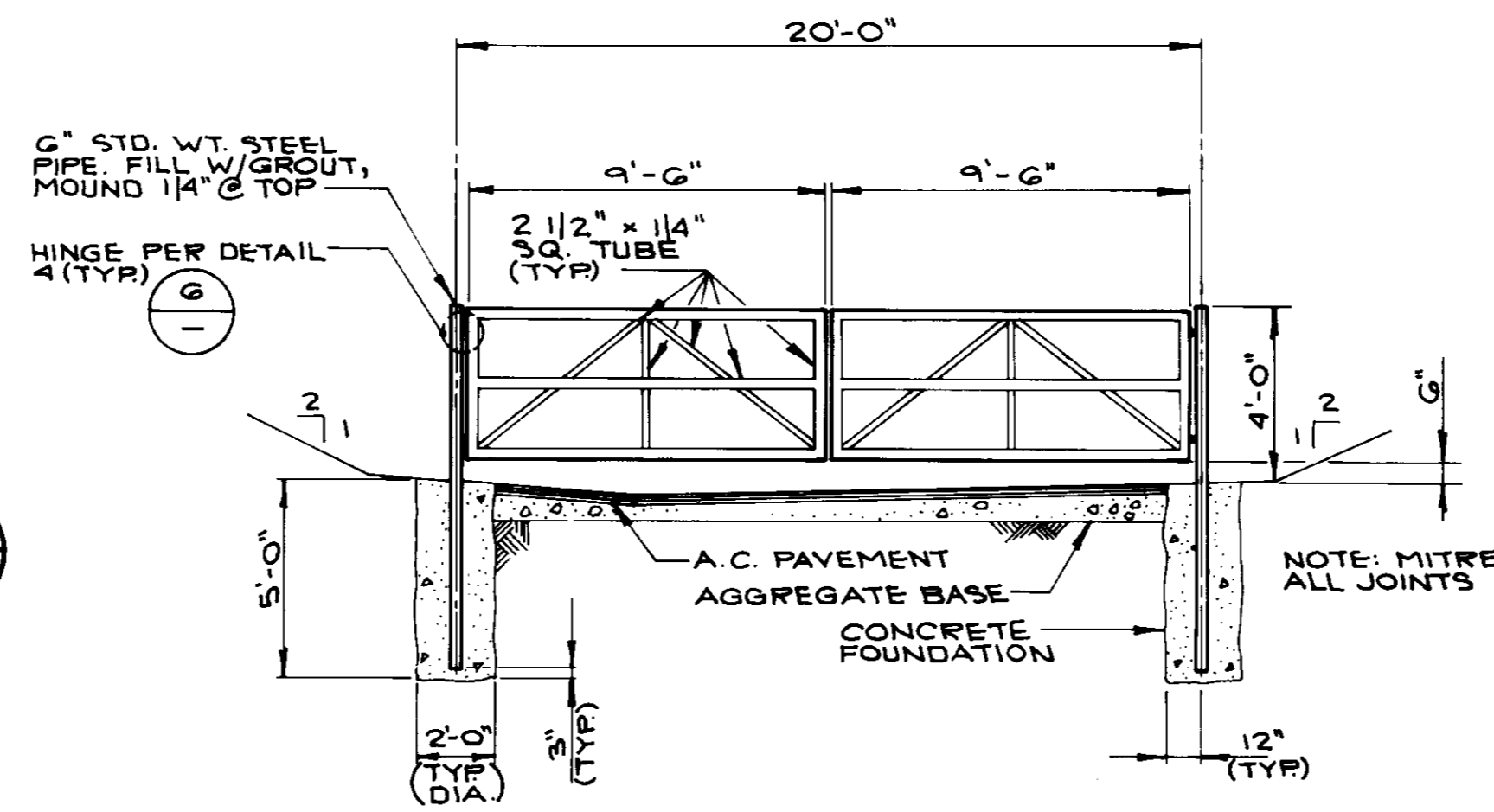
SOUTH AND NORTH DRAIN OUTLET DETAIL 4
SCALE: 1/2" = 1'-0"



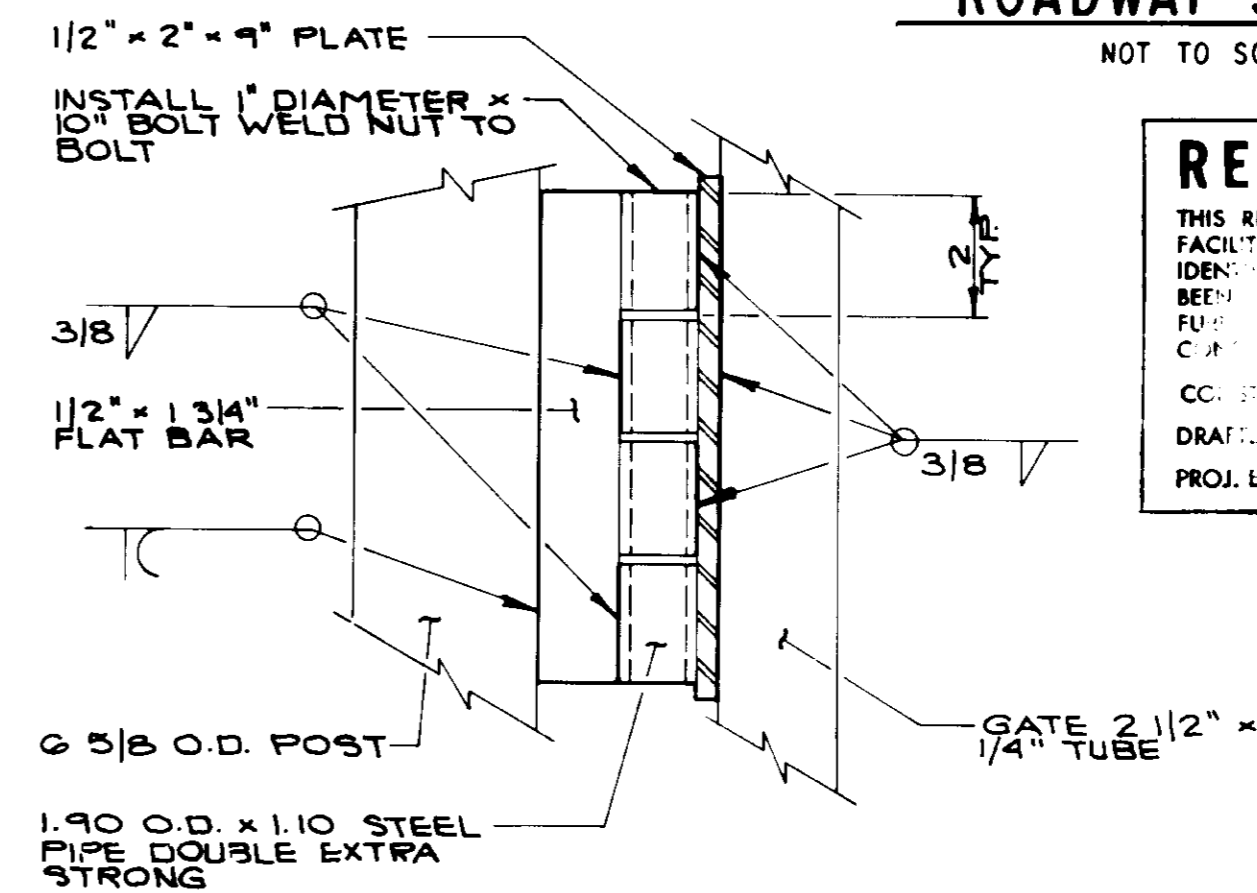
CONCRETE VALLEY GUTTER SECTION A
SCALE: 1/2" = 1'-0"



ROADWAY SECTION B
NOT TO SCALE



ACCESS ROAD GATE DETAIL 5
NOT TO SCALE



HINGE DETAIL 6
NOT TO SCALE

RECORD DRAWING

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CONTRACT NO. J.A.V. AGENCY W.M.D. DATE 1/14/94

DRAWN BY A.S.P. AGENCY B.E.C. DATE 12/28/93

PROJ. ENGR. P.A.B. AGENCY B.E.C. DATE 12/28/93

05895



LAS VIRGENES MUNICIPAL WATER DISTRICT

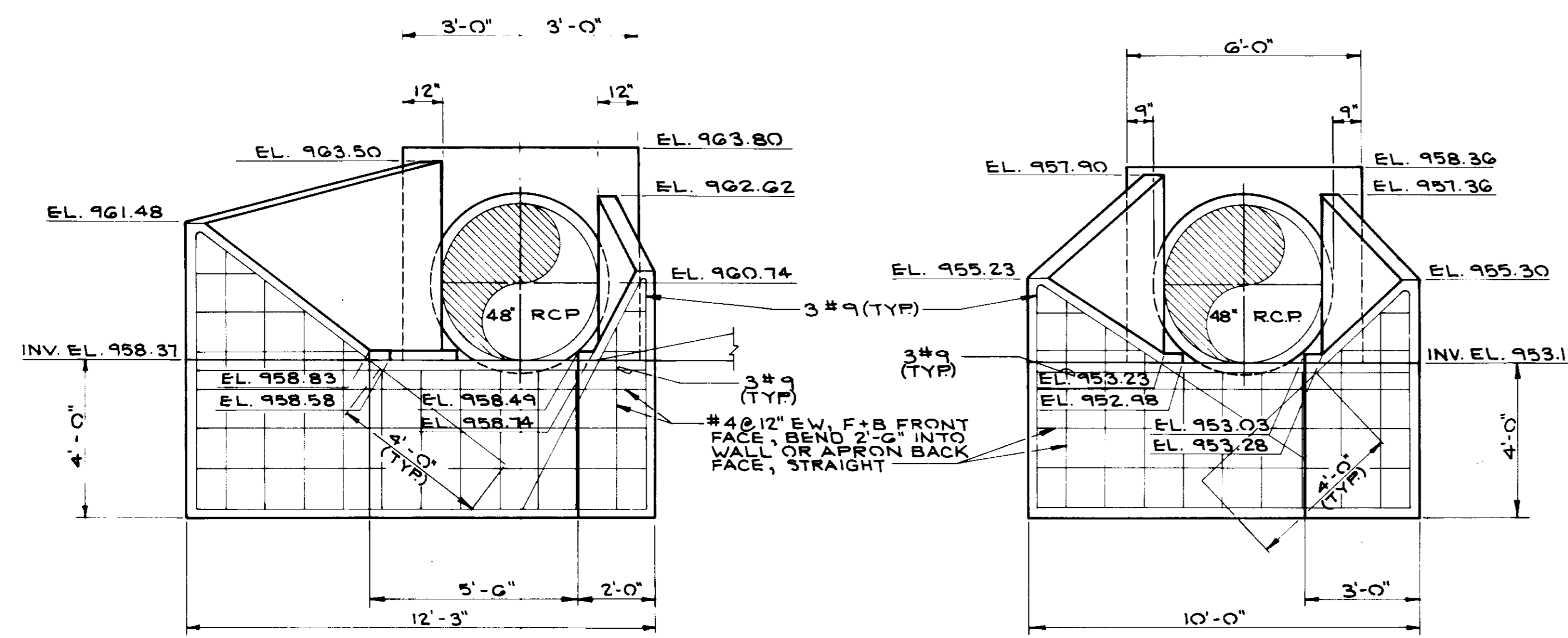
COLD CANYON PUMP STATION

DRAINAGE DETAILS AND ACCESS ROAD SECTION

BOYLE ENGINEERING CORPORATION
consulting engineers / architects
VENTURA, CA

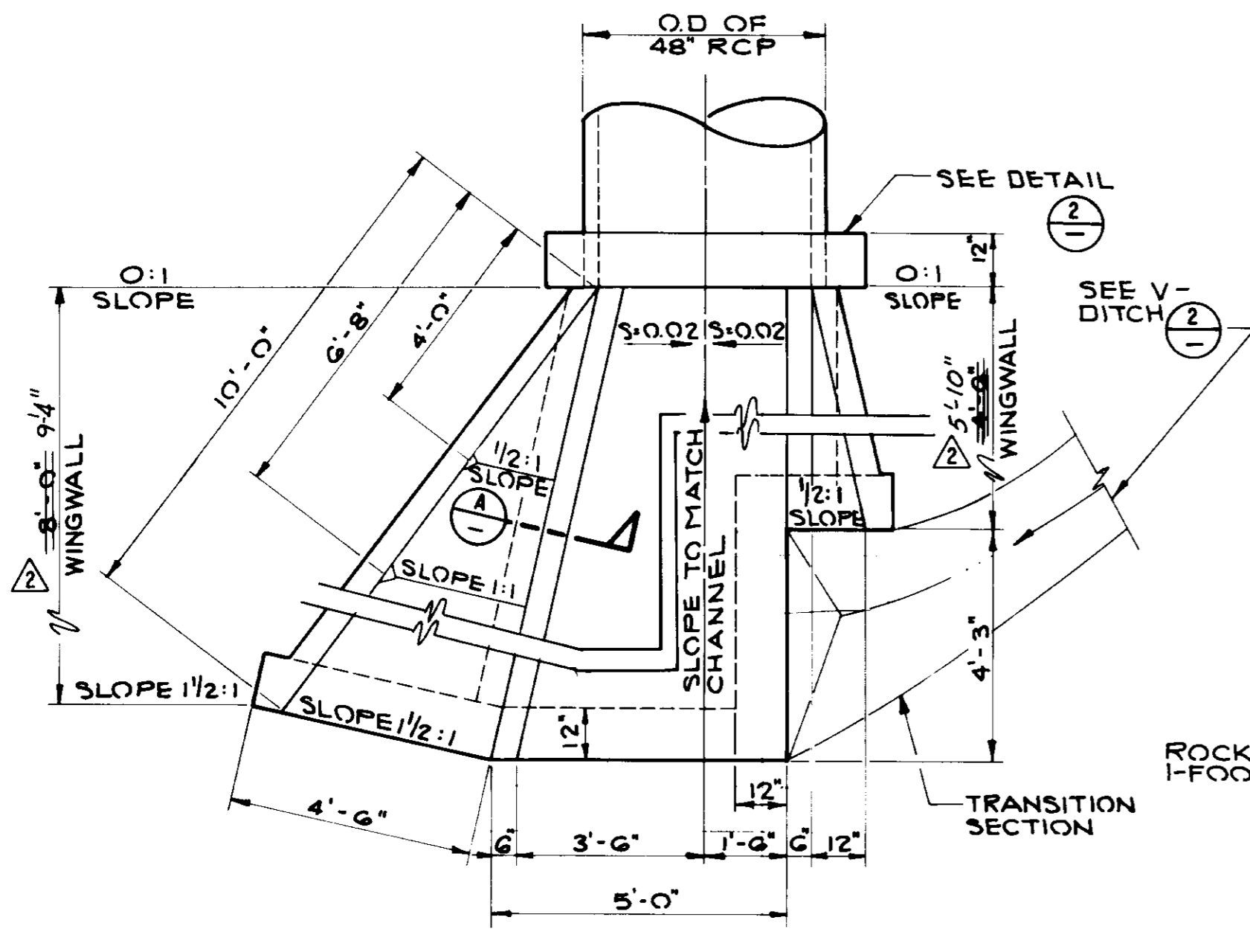
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5/24/94	ISSUED FOR CONSTRUCTION			
REV	DATE	DESCRIPTION	APP	

SHEET NO. 5 OF 24 SHEETS

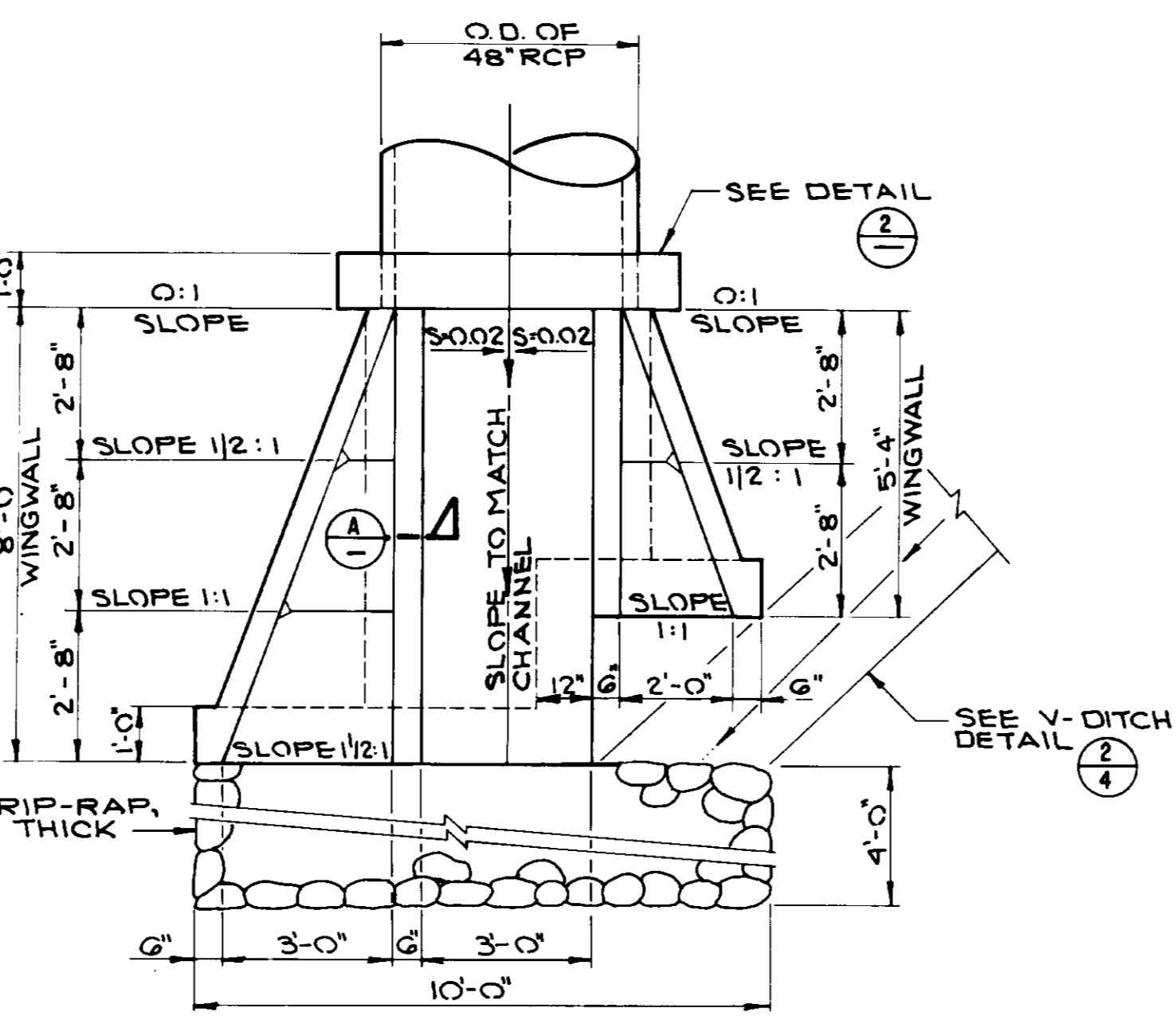


ELEVATION

ELEVATION



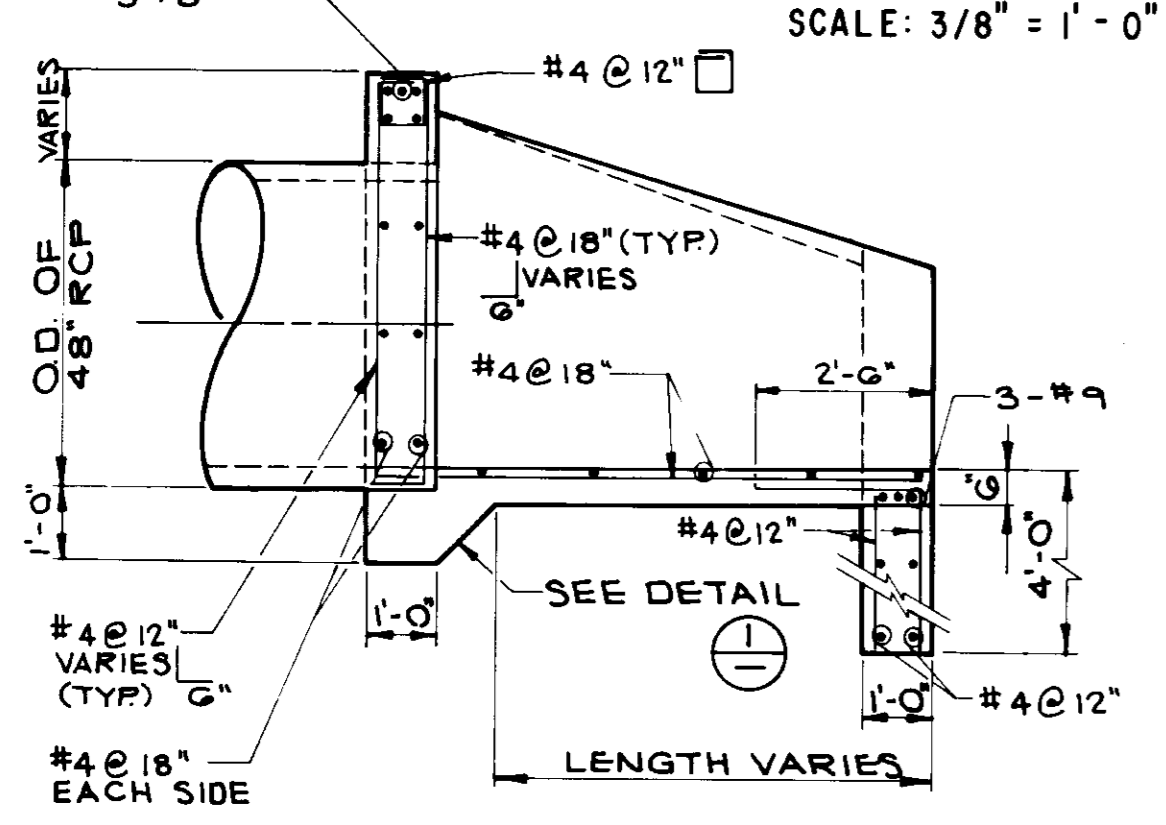
PLAN



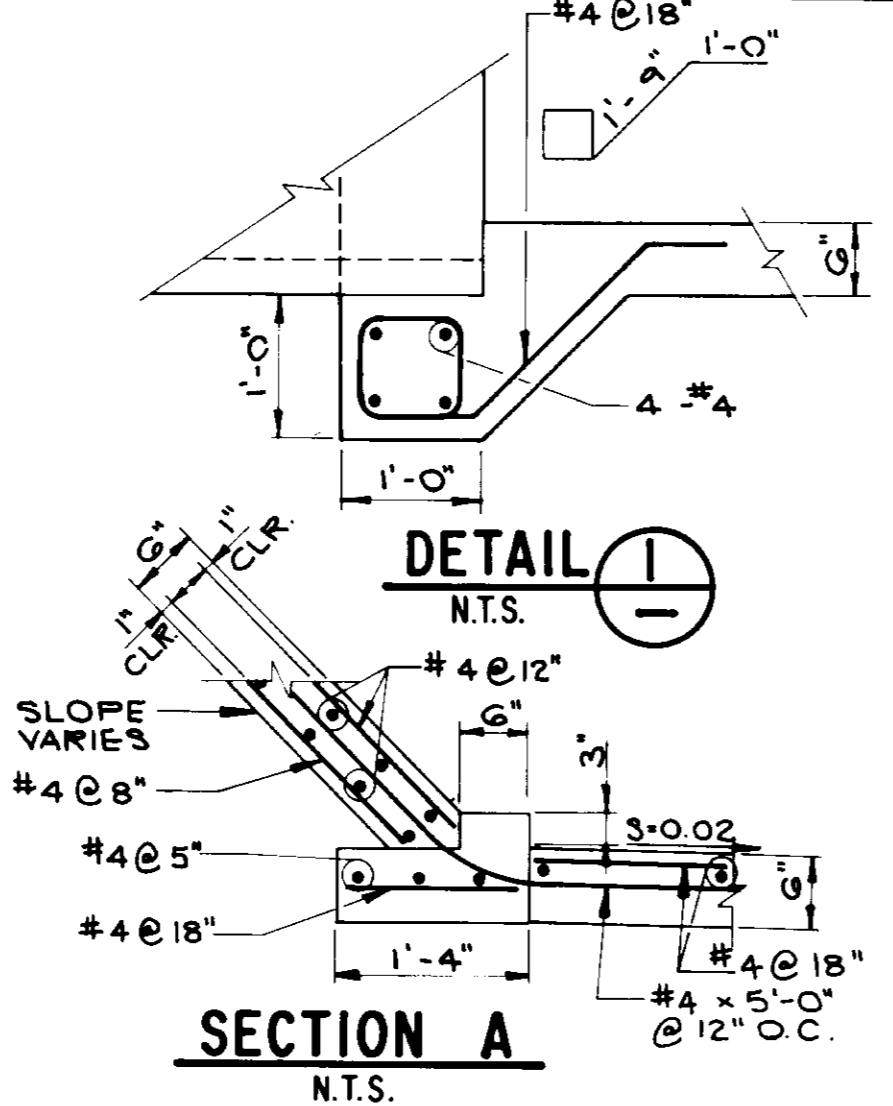
PLAN

PIPE CULVERT HEADWALL

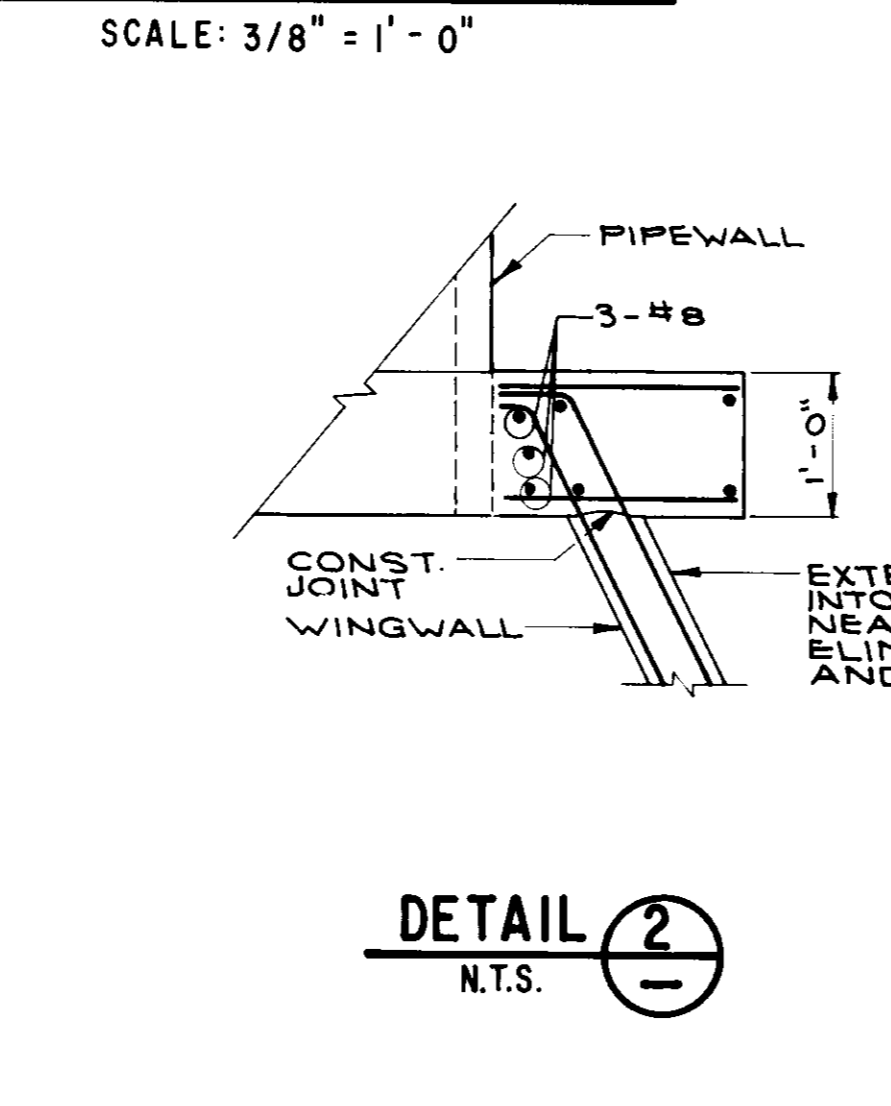
PIPE CULVERT ENDWALL



LONGITUDINAL PROFILE



SECTION A



DETAIL 2

GENERAL NOTES

- The Contractor shall verify all dimensions before starting work and shall immediately modify the owner's representative of any discrepancies.
 - Notes and details on the drawings shall take precedence over the structural notes and typical details.
 - Where no construction details are shown or noted for any part of the work, construction details shall be the same as for other similar work.
 - All construction shall be coordinated with and in accordance with the Construction Specifications.
 - Areas used shall be returned to their original conditions prior to acceptance of the work. Fill material, including temporary stockpiling, shall not be placed in any natural watercourse.
 - The Contractor shall confine all of his activities to within the rights-of-way described on Sheets 4 and 10, and public streets. If the Contractor desires to use adjacent areas the Contractor shall obtain written permission from the property owner(s) adjacent to the project site before any use is made of such area for any purpose.
 - All aboveground appurtenances shall be painted in accordance with the LVMWD Standard Specification for Painting or Section 09900 of the Specifications.
- PIPING**
- Pipeline elevations shown in plan and profile are centerline pipe, unless otherwise noted.
 - Steel pipe and fittings shall be designed per LVMWD Standard Specifications for Steel Water Pipe and Fittings and Section 15076 of Specifications. Maximum working pressures: discharge = 420 psig; suction = 115 psig
 - All steel pipe shall be cement mortar lined and coated per Section 15076 of Specifications.
 - All flanges on suction piping shall be AWWA C207 Class E. All flanges on discharge piping shall be ANSI B16.5 Class 300. All flanges to be hub type and flat-faced.
 - All surfaces of buried steel pipe and fittings shall be wrapped in plastic film secured in polyethylene adhesive tape in accordance with Section C-5 of the LVMWD Standard Specifications for Steel Water Pipe and Fitting.
 - All piping is steel unless shown otherwise on the drawings.
- REINFORCED CONCRETE**
- Refer to the Construction Specifications for General Concrete Construction.
 - The minimum ultimate compressive strength of concrete at 28 days shall be:
Structural Concrete - Class A - 3000 psi
Miscellaneous Concrete - Class C - 2000 psi
 - Reinforcing steel shall be ASTM A615, Grade 60.
 - No pipes or ducts shall be placed in concrete walls or footings, unless specifically detailed.
 - Water stops and joint sealant shall be placed in all construction and expansion joints.
 - Reinforcing steel splice lengths shall be 48 bar diameters unless otherwise noted. Location of splices shall be as shown. Where not shown, stagger splice laps in adjacent bars 48 bar diameters.
 - All anchor bolts, dowels and other items embedded or anchored in concrete shall be secured prior to concrete placement.
 - Provide 3/4-inch chamfer at all exposed concrete edges and corners unless omitted by note on drawings.

- Provide 3-inches of clearance between reinforcing steel bar and edge of concrete, unless otherwise noted.
- 8" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x GROOVED END.
- 8" BUTTERFLY VALVE (CLASS 150) SINGLE FLANGE LUG TYPE WITH HANDWHEEL ACTUATOR.
- 10" x 8" STD. WT., CML STEEL REDUCING TEE, WELDED ENDS.
- 10" x 8" STD. WT., CML STEEL REDUCING TEE, FLANGED END x WELDED END.
- 10" STEEL BLIND FLANGE, AWWA C 207, C.L.E.
- 10" x 8" STD. WT., CML STEEL REDUCER, WELDED END x WELDED END.
- 8" STD. WT. STEEL PIPE SPOOL, WELDED END x GROOVED END.
- 8" PROPELLER METER, FLANGED ENDS. SEE SPECIFICATIONS.
- 8" x 8" 90° LONG RADIUS, STD. WT., CML STEEL REDUCING ELBOW, WELDED ENDS.
- 8" x 8" 90° STD. WT., CML STEEL TEE, WELDED ENDS.
- 10" x 8" 90° STD. WT., CML STEEL LONG RADIUS REDUCING ELBOW.
- 6" STEEL BLIND FLANGE AWWA C207, C.L.E.
- 6" x 6" x 6" STD. WT., CML STEEL TEE, WELDED ENDS.
- 6" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x FLANGED END.
- 6" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x GROOVED END.
- GROOVED PIPE COUPLING PER LINE SIZE, VICTAULIC STYLE 77 OR EQUAL.
- 6" PUMP CONTROL VALVE (CLASS 300) SOLENOID OPERATED WITH CHECK VALVE FEATURE.
- 6" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x FLANGED END.
- 6" BUTTERFLY VALVE (CLASS 300) SINGLE FLANGE LUG TYPE WITH HANDWHEEL ACTUATOR.
- 6" STD. WT., CML STEEL PIPE SPOOL, WELDED END x FLANGED END.
- 6" 90° SHORT RADIUS, STD. WT., CML STEEL PIPE ELBOW, WELDED ENDS.
- 6" STD. WT., CML STEEL PIPE SPOOL, GROOVED END x WELDED END.
- 10" x 6" 90° LONG RADIUS STD. WT., CML STEEL PIPE REDUCING ELBOW, WELDED ENDS.
- 10" x 6" STD. WT., CML STEEL PIPE SPOOL, WELDED END x WELDED END.
- 10" STD. WT., CML STEEL PIPE SPOOL, WELDED END x WELDED END.
- 6" STD. WT., CML STEEL PIPE SPOOL, WELDED ENDS.
- 6" 45° STD. WT., CML STEEL PIPE ELBOW, WELDED ENDS.
- 6" BUTTERFLY VALVE (CLASS 150) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 6" BUTTERFLY VALVE (CLASS 300) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 6" 90° STD. WT., CML STEEL LONG RADIUS ELBOW.
- 6" STEEL BLIND FLANGE, ANSI B16.5, CLASS 300.
- 8" TOP, HEAVY DUTY, CAST IRON FLOOR DRAIN WITH GRATE AND 4" OUTLET.
- 9" CAST IRON BODY, INDIRECT WASTE FUNNEL WITH DOME STRAINER, ZURN MODEL NO. Z-326.
- 1" EXTRA STRONG FULL COUPLING.
- 1/2" GATE VALVE, (CLASS 300).
- 1" GALVANIZED STEEL UNION.
- 1" DIELECTRIC COUPLING.
- ELECTRODE FITTING WITH 3" N.P.T.
- 3" x 2" x 2" GALVANIZED STEEL TEE.
- 3" STANDARD WEIGHT GALVANIZED STEEL PIPE.
- 1" GALVANIZED STEEL PLUG.
- 10" STEEL FLEXIBLE COUPLING WITH CAST IRON SLEEVE AND 304SS BOLTS, DRESSER COUPLING STYLE 38, BAKER ALL STEEL COUPLING NO. 200-1-1075, OR EQUAL.
- 1" EXTRA STRONG STEEL HALF COUPLING.
- 1" DIELECTRIC COUPLING WITH 1" x 1/2" BUSHING.
- 1/2" S.S. NIPPLE WHERE REQUIRED, (TYPICAL).
- 1/2" S.S. TEE.
- 1/2" HIGH PRESSURE S.S. BALL VALVE WITH HANDWHEEL OR RATCHETED LEVER.
- 1/2" S.S. STREET ELBOW.
- 1/2" S.S. NEEDLE VALVE MARSH TYPE N 1314.
- 1/2" 90° S.S. ELBOW, (TYPICAL).
- 1/2" BLOCK/BLEED VALVE, TYPE N7534.
- 1/2" S.S. PRESSURE SNUBBER, FEMALE x MALE, (TYPICAL).
- 1/2" x 1/4" S.S. BUSHING, (TYPICAL).
- 4-1/2" PRESSURE GAUGE, MARSH PATTERN WITH 1/4" MALE BOTTOM EQUIPPED WITH RECALIBRATOR, PRESSURE RANGE SUCTION SIDE 0-300 PSI (H4258), DISCHARGE SIDE PRESSURE RANGE 0-600 PSI (H4264).
- PRESSURE SWITCH WITH 1/4" MALE BOTTOM PER SPECIFICATIONS.
- 1" TYPE K COPPER TUBING, ASTM B88.
- 3/4" TYPE K COPPER TUBING ASTM B88.
- 3/4" COUPLING.
- 3/4" TYPE L COPPER TUBING.
- 1-3/8" x 1-5/8" x 6" LONG CHANNEL WITH RIGID CONDUIT PIPE STRAP, HOT-DIPPED GALVANIZED, SUPERSTRUT OR EQUAL.
- 3/4" DIA. COPPER MALE ADAPTER (TYPICAL).
- 3/4" BRONZE HOSE BIB ASTM B62, PRESSURE RATING 150 PSI.
- 10" BUTTERFLY VALVE (CLASS 150) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 10" BUTTERFLY VALVE (CLASS 300) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 1" S.S. DIFFUSER.

REINFORCED MASONRY

- Refer to Construction Specification and structural details.
- All cells to have solid grout.

FOUNDATION

Refer to the Construction Specifications for earthwork and foundation preparation requirements.

NOTIFICATION OF UTILITIES

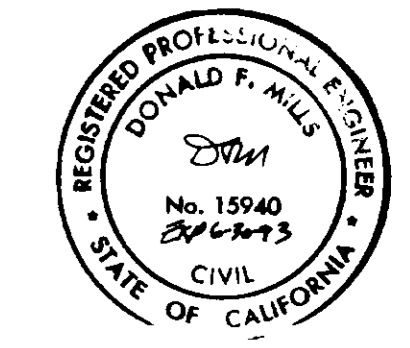
48 hours prior to any excavation work, the Contractor shall notify all utilities in the area by means of the Underground Service Alert System (USA): 1(800)422-4133.

MATERIAL LIST

- VERTICAL TURBINE PUMP, MOTOR AND ACCESSORIES. SEE SPECIFICATIONS.
- 6" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x GROOVED END.
- GROOVED PIPE COUPLING PER LINE SIZE, VICTAULIC STYLE 77 OR EQUAL.
- 6" PUMP CONTROL VALVE (CLASS 300) SOLENOID OPERATED WITH CHECK VALVE FEATURE.
- 6" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x FLANGED END.
- 6" BUTTERFLY VALVE (CLASS 300) SINGLE FLANGE LUG TYPE WITH HANDWHEEL ACTUATOR.
- 6" STD. WT., CML STEEL PIPE SPOOL, WELDED END x FLANGED END.
- 6" 90° SHORT RADIUS, STD. WT., CML STEEL PIPE ELBOW, WELDED ENDS.
- 6" STD. WT., CML STEEL PIPE SPOOL, GROOVED END x WELDED END.
- 10" x 6" 90° LONG RADIUS STD. WT., CML STEEL PIPE REDUCING ELBOW, WELDED ENDS.
- 10" x 6" STD. WT., CML STEEL PIPE SPOOL, WELDED END x WELDED END.
- 10" STD. WT., CML STEEL PIPE SPOOL, WELDED END x WELDED END.
- 6" STD. WT., CML STEEL PIPE SPOOL, WELDED ENDS.
- 6" 45° STD. WT., CML STEEL PIPE ELBOW, WELDED ENDS.
- 6" BUTTERFLY VALVE (CLASS 150) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 6" BUTTERFLY VALVE (CLASS 300) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 6" 90° STD. WT., CML STEEL LONG RADIUS ELBOW.
- 6" STEEL BLIND FLANGE, ANSI B16.5, CLASS 300.
- 8" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x GROOVED END.
- 8" BUTTERFLY VALVE (CLASS 150) SINGLE FLANGE LUG TYPE WITH HANDWHEEL ACTUATOR.
- 10" x 8" STD. WT., CML STEEL REDUCING TEE, WELDED ENDS.
- 10" x 8" STD. WT., CML STEEL REDUCING TEE, FLANGED END x WELDED END.
- 10" STEEL BLIND FLANGE, AWWA C 207, C.L.E.
- 10" x 8" STD. WT., CML STEEL REDUCER, WELDED END x WELDED END.
- 8" STD. WT. STEEL PIPE SPOOL, WELDED END x GROOVED END.
- 8" PROPELLER METER, FLANGED ENDS. SEE SPECIFICATIONS.
- 8" x 8" 90° LONG RADIUS, STD. WT., CML STEEL REDUCING ELBOW, WELDED ENDS.
- 8" x 8" 90° STD. WT., CML STEEL TEE, WELDED ENDS.
- 10" x 8" 90° STD. WT., CML STEEL LONG RADIUS REDUCING ELBOW.
- 6" STEEL BLIND FLANGE AWWA C207, C.L.E.
- 6" x 6" x 6" STD. WT., CML STEEL TEE, WELDED ENDS.
- 6" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x FLANGED END.
- 6" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x GROOVED END.
- GROOVED PIPE COUPLING PER LINE SIZE, VICTAULIC STYLE 77 OR EQUAL.
- 6" PUMP CONTROL VALVE (CLASS 300) SOLENOID OPERATED WITH CHECK VALVE FEATURE.
- 6" STD. WT., CML STEEL PIPE SPOOL, FLANGED END x FLANGED END.
- 6" BUTTERFLY VALVE (CLASS 300) SINGLE FLANGE LUG TYPE WITH HANDWHEEL ACTUATOR.
- 6" STD. WT., CML STEEL PIPE SPOOL, WELDED END x FLANGED END.
- 6" 90° SHORT RADIUS, STD. WT., CML STEEL PIPE ELBOW, WELDED ENDS.
- 6" STD. WT., CML STEEL PIPE SPOOL, GROOVED END x WELDED END.
- 10" x 6" 90° LONG RADIUS STD. WT., CML STEEL PIPE REDUCING ELBOW, WELDED ENDS.
- 10" x 6" STD. WT., CML STEEL PIPE SPOOL, WELDED END x WELDED END.
- 10" STD. WT., CML STEEL PIPE SPOOL, WELDED END x WELDED END.
- 6" STD. WT., CML STEEL PIPE SPOOL, WELDED ENDS.
- 6" 45° STD. WT., CML STEEL PIPE ELBOW, WELDED ENDS.
- 6" BUTTERFLY VALVE (CLASS 150) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 6" BUTTERFLY VALVE (CLASS 300) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 6" 90° STD. WT., CML STEEL LONG RADIUS ELBOW.
- 6" STEEL BLIND FLANGE, ANSI B16.5, CLASS 300.
- 8" TOP, HEAVY DUTY, CAST IRON FLOOR DRAIN WITH GRATE AND 4" OUTLET.
- 9" CAST IRON BODY, INDIRECT WASTE FUNNEL WITH DOME STRAINER, ZURN MODEL NO. Z-326.
- 1" EXTRA STRONG FULL COUPLING.
- 1/2" GATE VALVE, (CLASS 300).
- 1" GALVANIZED STEEL UNION.
- 1" DIELECTRIC COUPLING.
- ELECTRODE FITTING WITH 3" N.P.T.
- 3" x 2" x 2" GALVANIZED STEEL TEE.
- 3" STANDARD WEIGHT GALVANIZED STEEL PIPE.
- 1" GALVANIZED STEEL PLUG.
- 10" STEEL FLEXIBLE COUPLING WITH CAST IRON SLEEVE AND 304SS BOLTS, DRESSER COUPLING STYLE 38, BAKER ALL STEEL COUPLING NO. 200-1-1075, OR EQUAL.
- 1" EXTRA STRONG STEEL HALF COUPLING.
- 1" DIELECTRIC COUPLING WITH 1" x 1/2" BUSHING.
- 1/2" S.S. NIPPLE WHERE REQUIRED, (TYPICAL).
- 1/2" S.S. TEE.
- 1/2" HIGH PRESSURE S.S. BALL VALVE WITH HANDWHEEL OR RATCHETED LEVER.
- 1/2" S.S. STREET ELBOW.
- 1/2" S.S. NEEDLE VALVE MARSH TYPE N 1314.
- 1/2" 90° S.S. ELBOW, (TYPICAL).
- 1/2" BLOCK/BLEED VALVE, TYPE N7534.
- 1/2" S.S. PRESSURE SNUBBER, FEMALE x MALE, (TYPICAL).
- 1/2" x 1/4" S.S. BUSHING, (TYPICAL).
- 4-1/2" PRESSURE GAUGE, MARSH PATTERN WITH 1/4" MALE BOTTOM EQUIPPED WITH RECALIBRATOR, PRESSURE RANGE SUCTION SIDE 0-300 PSI (H4258), DISCHARGE SIDE PRESSURE RANGE 0-600 PSI (H4264).
- PRESSURE SWITCH WITH 1/4" MALE BOTTOM PER SPECIFICATIONS.
- 1" TYPE K COPPER TUBING, ASTM B88.
- 3/4" TYPE K COPPER TUBING ASTM B88.
- 3/4" COUPLING.
- 3/4" TYPE L COPPER TUBING.
- 1-3/8" x 1-5/8" x 6" LONG CHANNEL WITH RIGID CONDUIT PIPE STRAP, HOT-DIPPED GALVANIZED, SUPERSTRUT OR EQUAL.
- 3/4" DIA. COPPER MALE ADAPTER (TYPICAL).
- 3/4" BRONZE HOSE BIB ASTM B62, PRESSURE RATING 150 PSI.
- 10" BUTTERFLY VALVE (CLASS 150) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 10" BUTTERFLY VALVE (CLASS 300) SINGLE FLANGE LUG TYPE WITH 2" SQUARE NUT ACTUATOR AND VALVE BOX WITH COVER PER LVMWD STD. DWG. NO. 11.
- 1" S.S. DIFFUSER.

RECORD DRAWING
 THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES CONSTRUCTED UNDER THE CONTRACT IDENTIFIED IN THE TITLE BLOCK. THIS DRAWING IS NOT VALID ON THE BALDWIN INFORMATION SYSTEM. FULLY APPROVED BY THE CONTRACTOR AND THE CONSULTING ENGINEER.
 CONST. INSP. *AS.P.* AGENCY *LVMWD* DATE *12/1/99*
 DRAFTED BY *AS.P.* AGENCY *BEC* DATE *12/1/99*
 PROJ. ENGR. *PAS* AGENCY *Dec* DATE *12/1/99*

05896

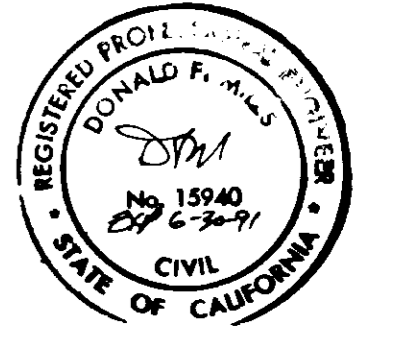
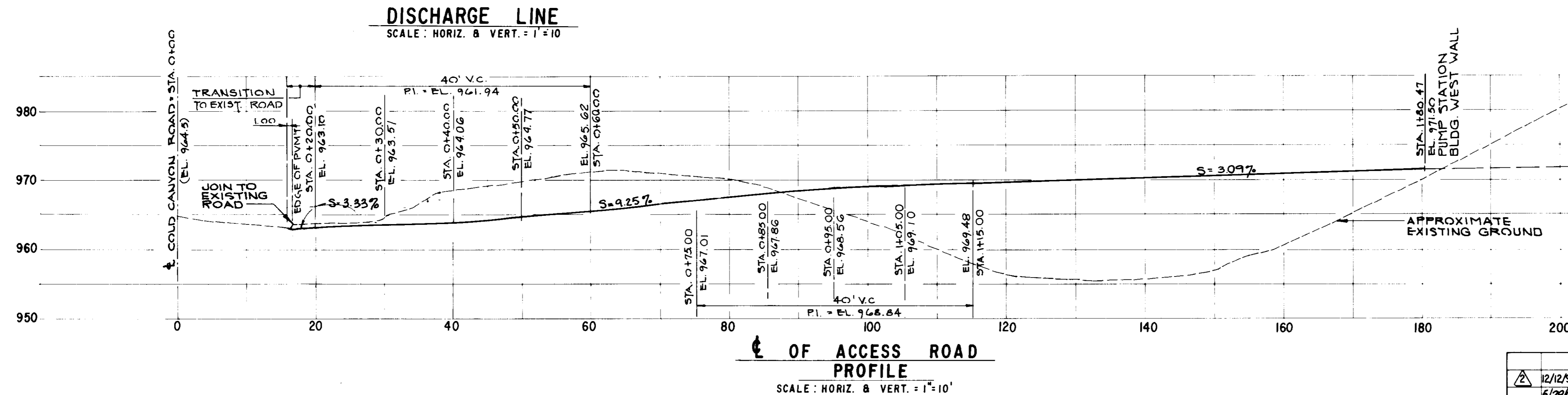
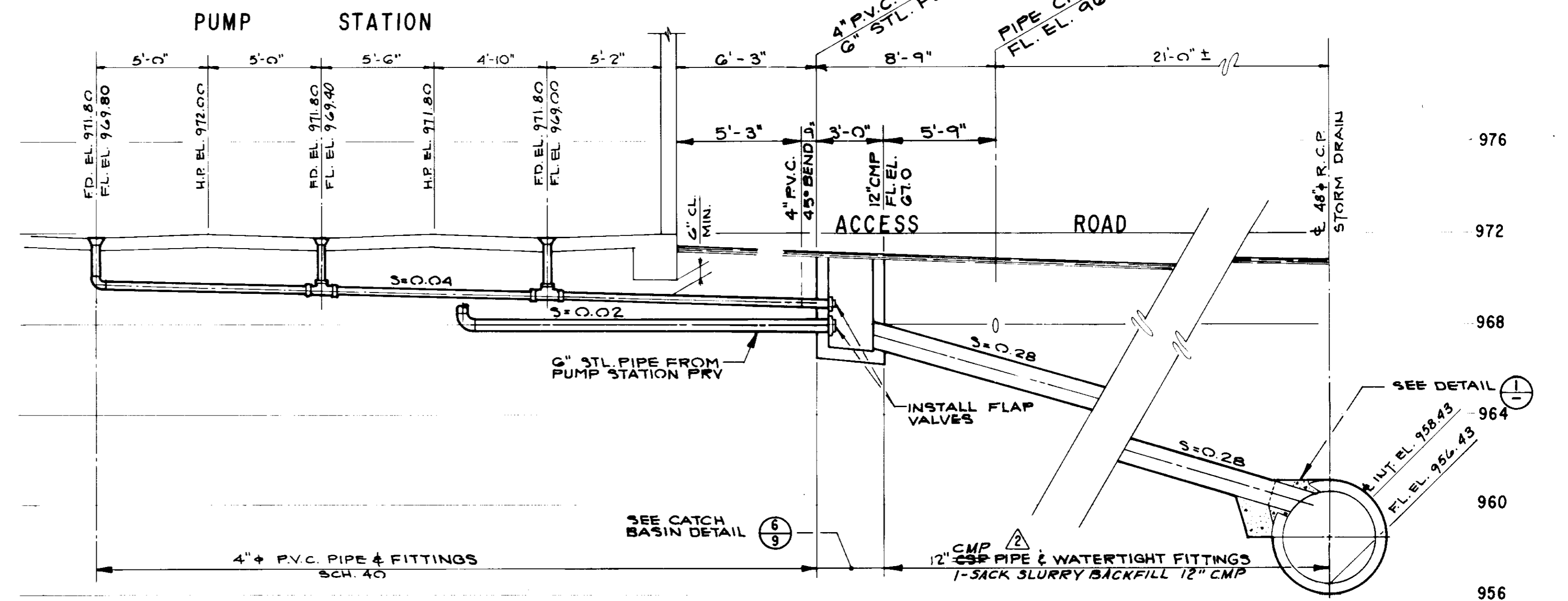
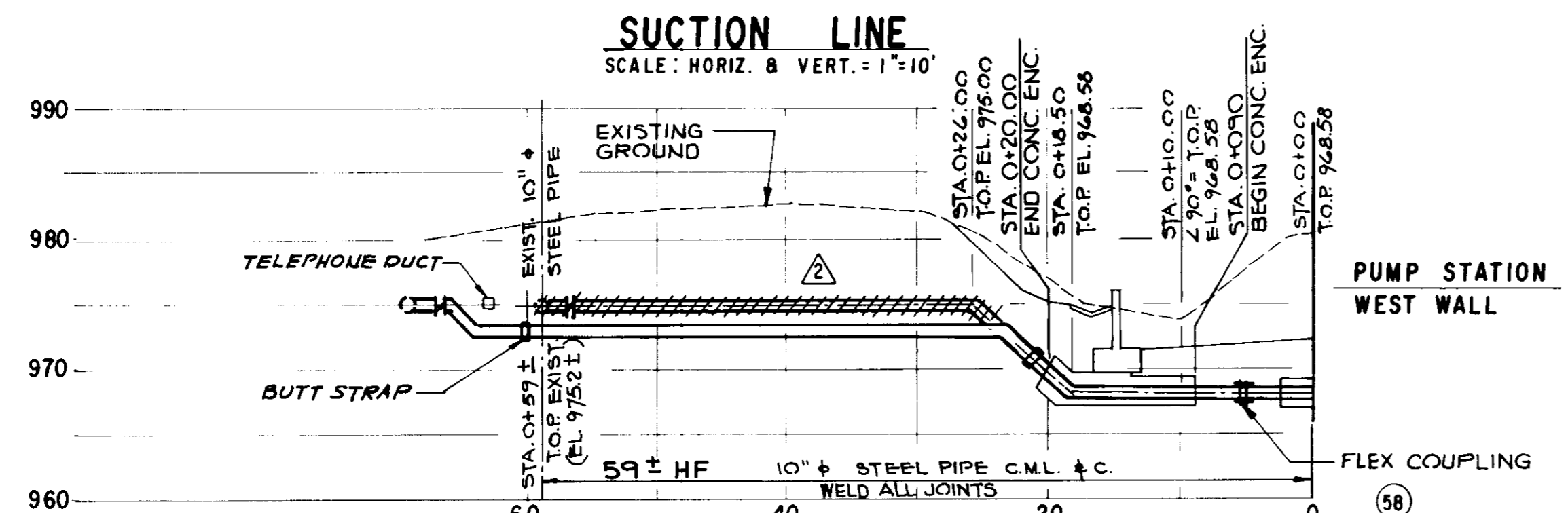
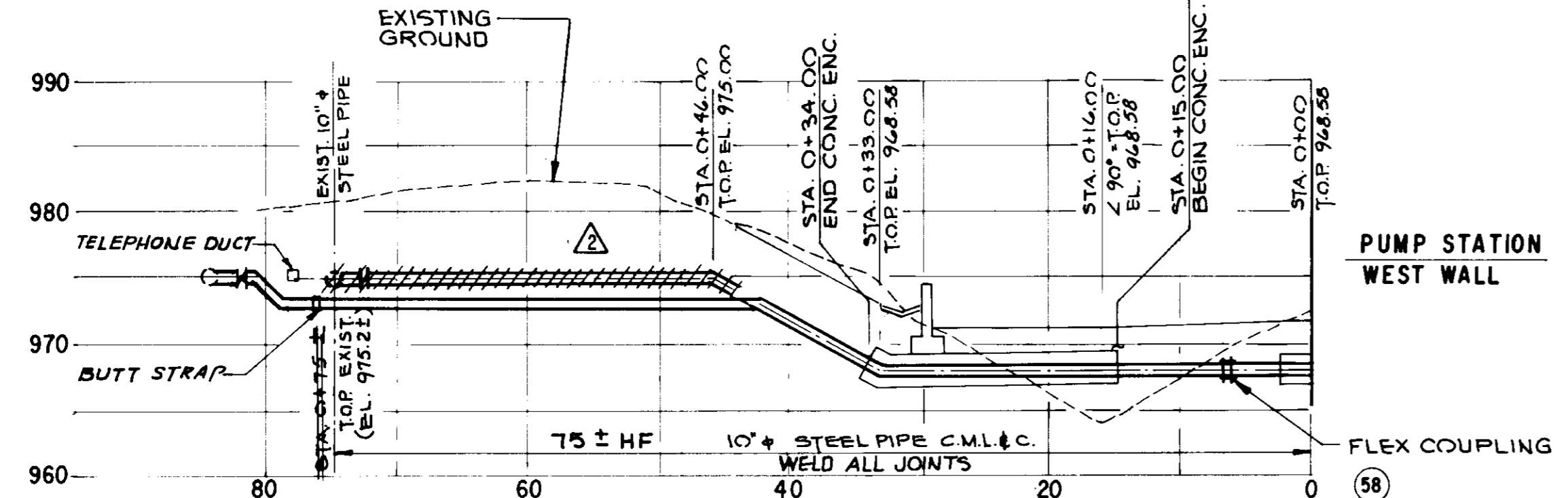
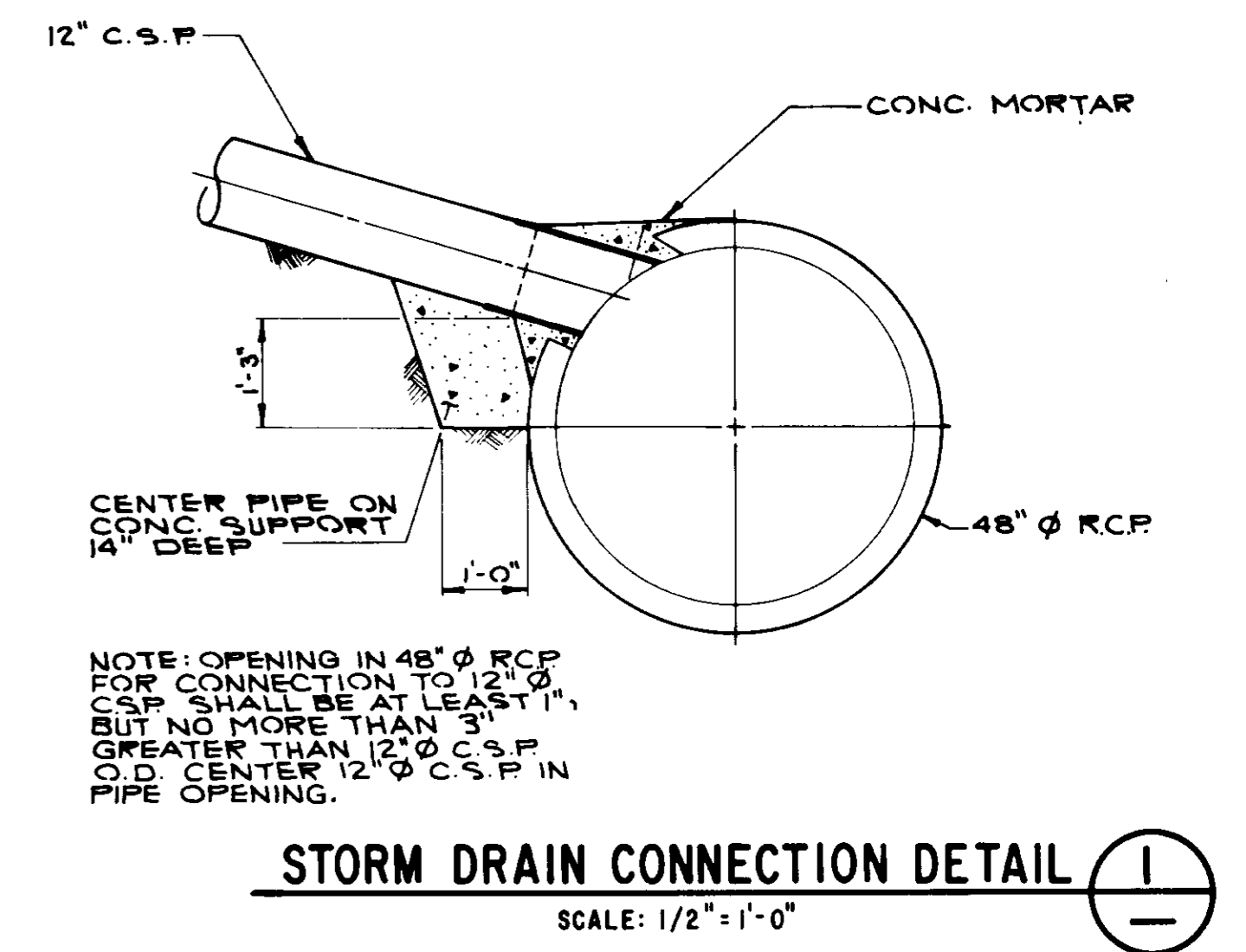
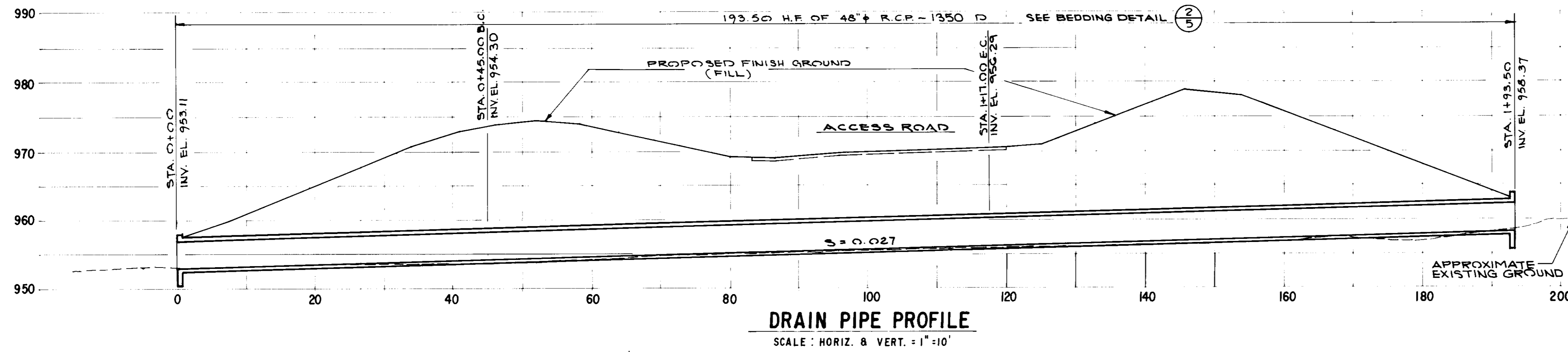


LAS VIRGENES MUNICIPAL WATER DISTRICT

COLD CANYON PUMP STATION
HEAD AND END WALL DETAILS, MATERIAL LIST, AND NOTES

BOYLE ENGINEERING CORPORATION
 consulting engineers | architects
 VENTURA, CA

DESIGN	DRAWN	CHECKED	C.A. NO.	DRAWING NO.	SHEET NO.
M.D./M.E.B.	D.P.J.	HEB	12/1/99	3-225	6
DATE	DATE	DATE	DATE	DATE	DATE
12/1/99	12/1/99	12/1/99	12/1/99	12/1/99	12/1/99



05897

RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES CONSTRUCTED UNDER THE CONTRACT IDENTIFIED IN THE BLOCK OF THIS DRAWING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONSTRUCTION DIRECTOR TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
DESIGNED BY: J.A.K. AGENCY: LWWD DATE: 1/4/94
DRAWN BY: A.S.P. AGENCY: REC. DATE: 1/17/93
PROJ. ENGR: P.A.B. AGENCY: REC. DATE: 1/17/93

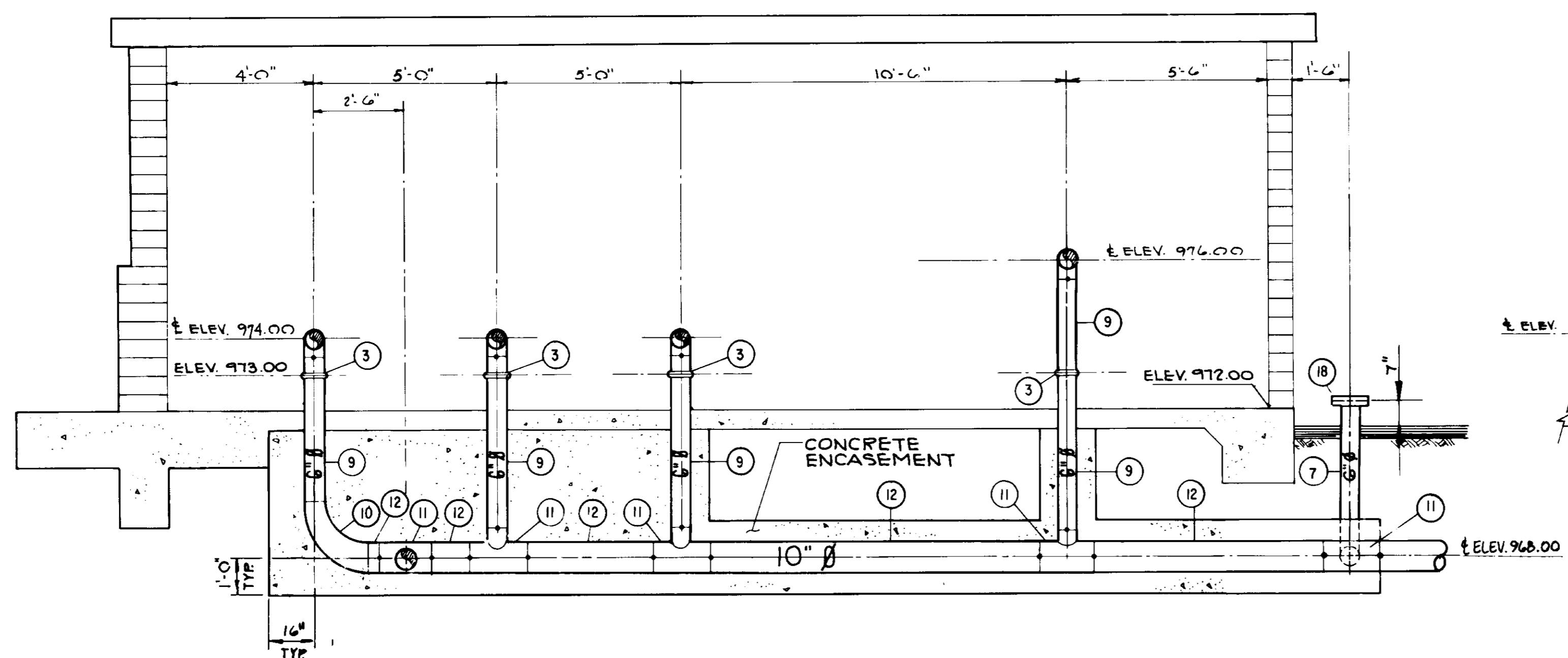
LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION AND STUNT ROAD P.R.V.
ACCESS ROAD AND YARD PIPING PROFILES

BOYLE ENGINEERING CORPORATION
consulting engineers | architects
VENTURA, CA

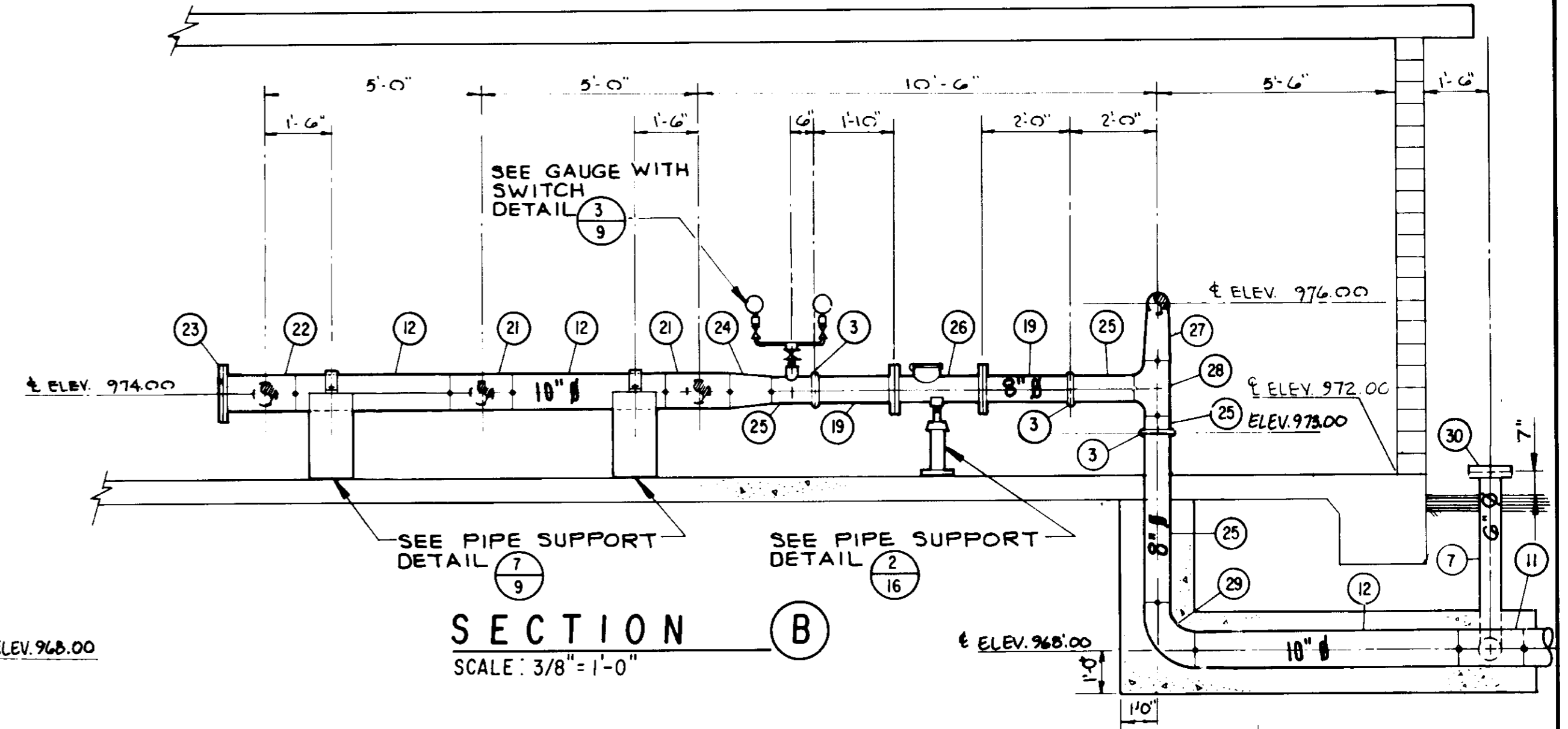
Donal F. Mills
R.C.E. DATE: 1-8-91
SHEET NO. 7

DESIGN: M.D./M.E.B. DRAWN: A.S.P. CHECKED: J.E.B. DATE: 1-8-91
VT-02-163-03 9-225 OF 24 SHEETS

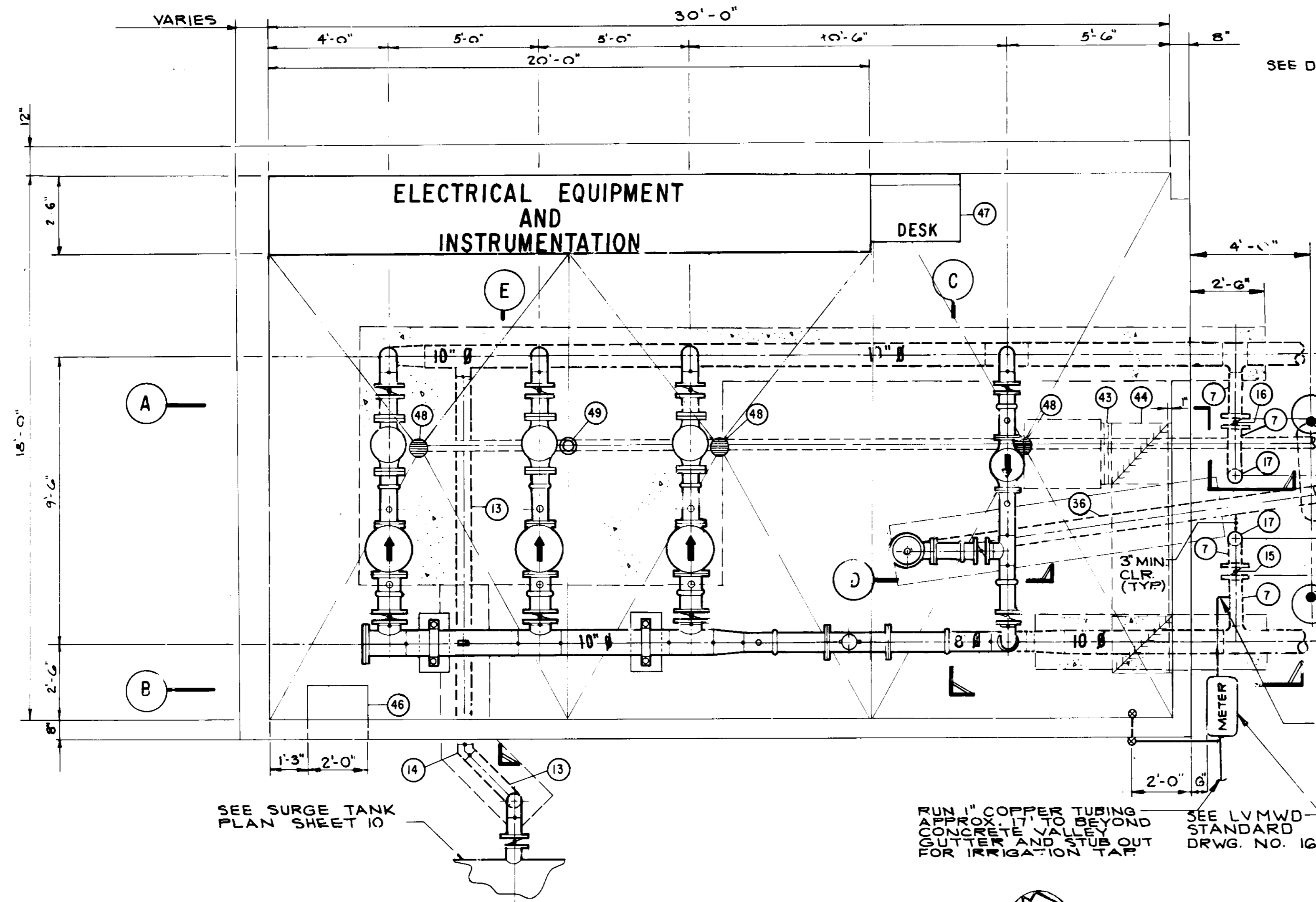
REV.	DATE	DESCRIPTION	APP.
1	12/12/93	RECORD DRAWING	
2	5/27/94	ISSUED FOR CONSTRUCTION	M.E.B.



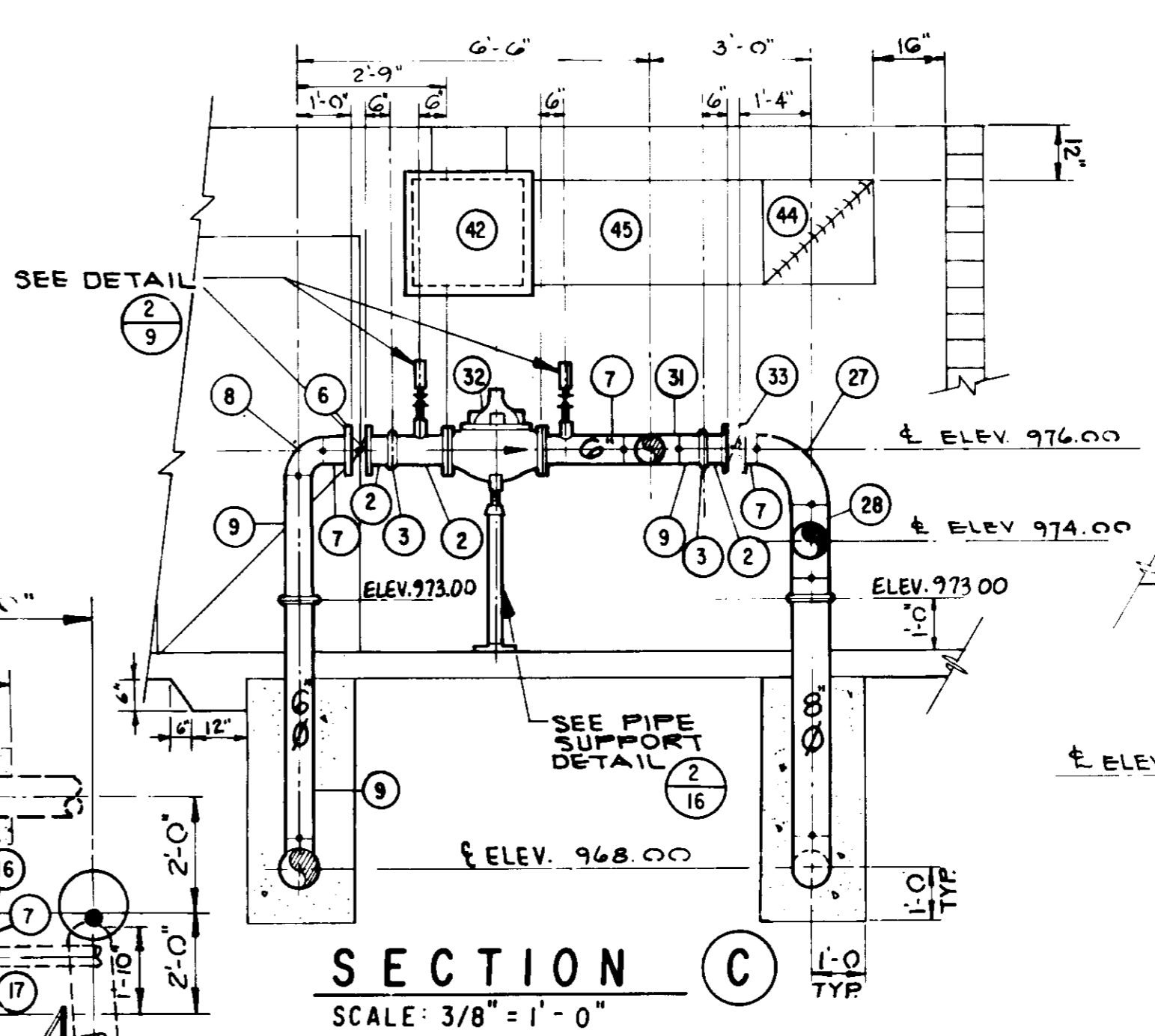
SECTION A
SCALE: 3/8" = 1'-0"



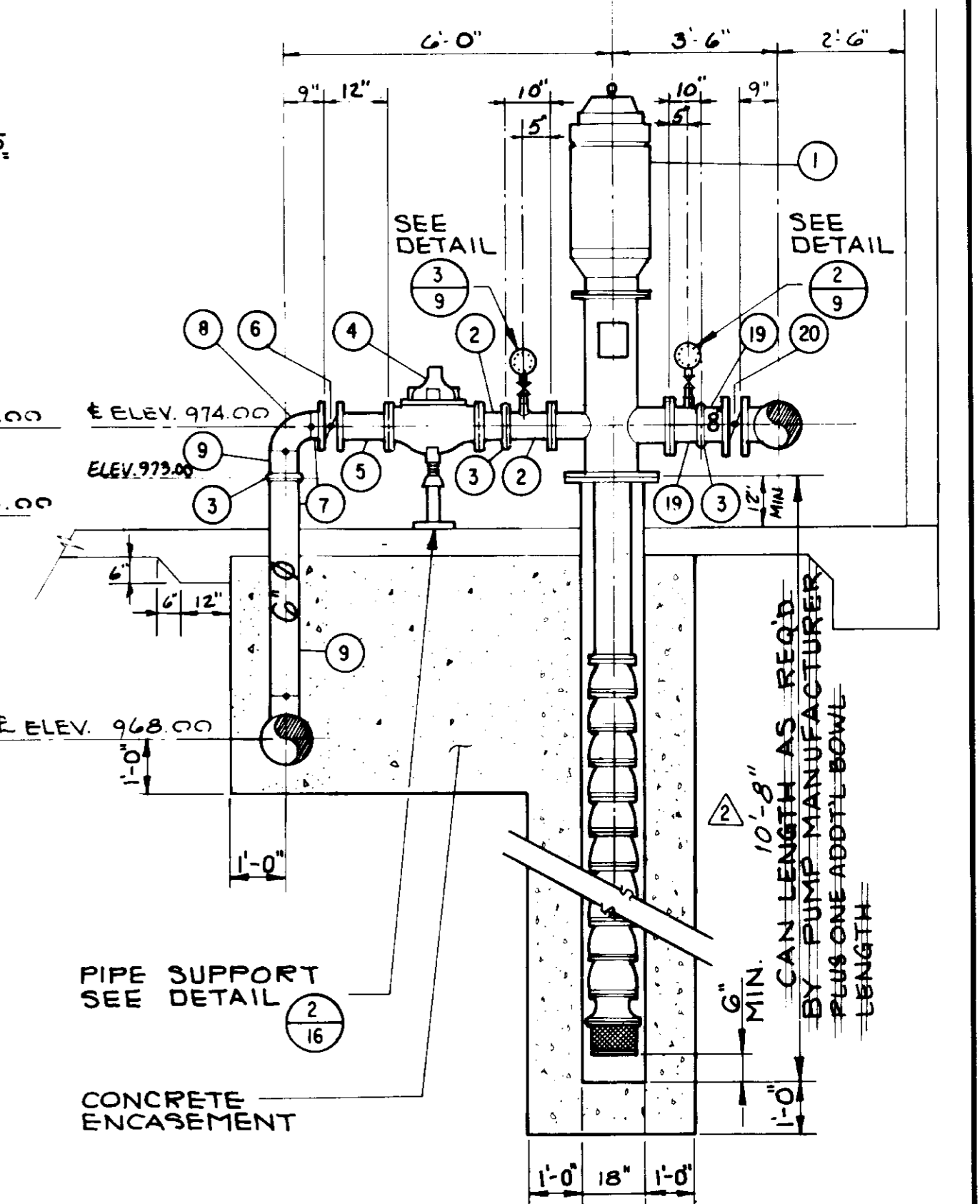
SECTION B
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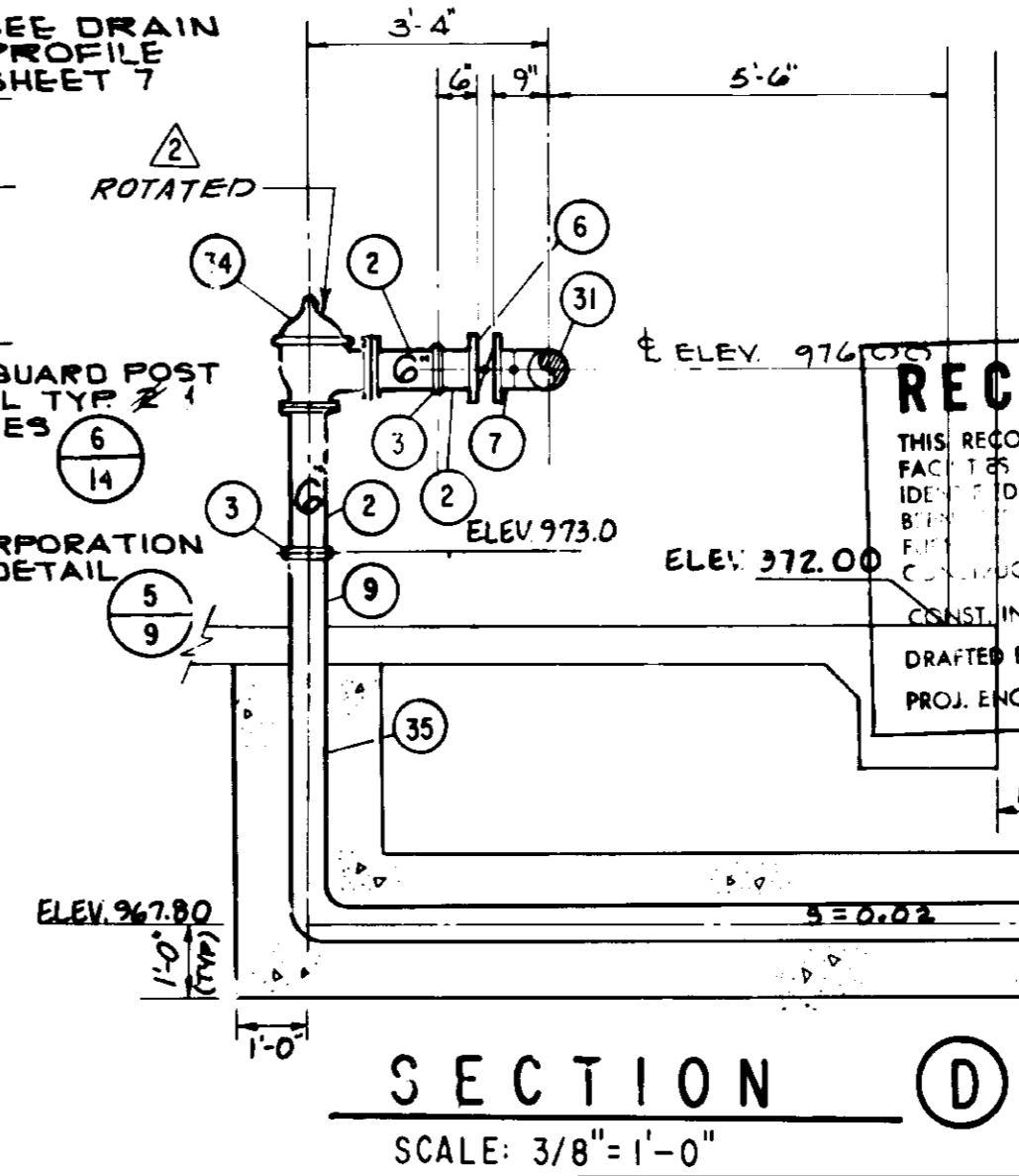
PLAN
SCALE: 3/8" = 1'-0"



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

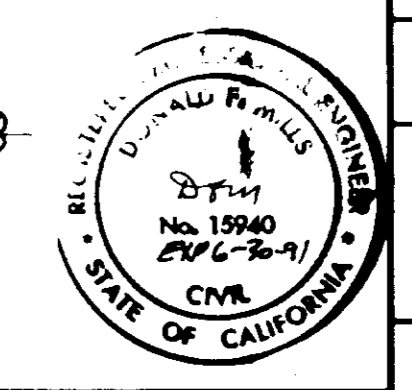


SECTION E
SCALE: 3/8" = 1'-0" (TYP. OF 3)



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

RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THE FACTS AND CONDITIONS UNDER THE CONTRACT. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING.



05898
LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
PIPING PLAN AND SECTIONS

BOYLE ENGINEERING CORPORATION
consulting engineers / architects
VENTURA, CA

DESIGN	DRAWN	CHECKED	C.A. NO.	DRAWING NO.	SHEET NO.
: B./M.	A.S.P./D.P.J.	M.E.B.	VT-102-163-CA	S-225	8 OF 24 SHEETS

SEE SHEET G FOR MATERIAL LIST

RUN 1" COPPER TUBING APPROX. 1 FT. TO BEYOND ROUTER AND STUB OUT FOR IRRIGATION TAP.
SEE LVMWD STANDARD DRWG. NO. 16

SEE SURGE TANK PLAN SHEET 10

18'-0"
9'-6"
2'-6"

VARIES
4'-0" 5'-0" 5'-0" 10'-6" 5'-6" 8"

ELECTRICAL EQUIPMENT AND INSTRUMENTATION

DESK

SEE DETAIL

SEE DETAIL

SEE DETAIL

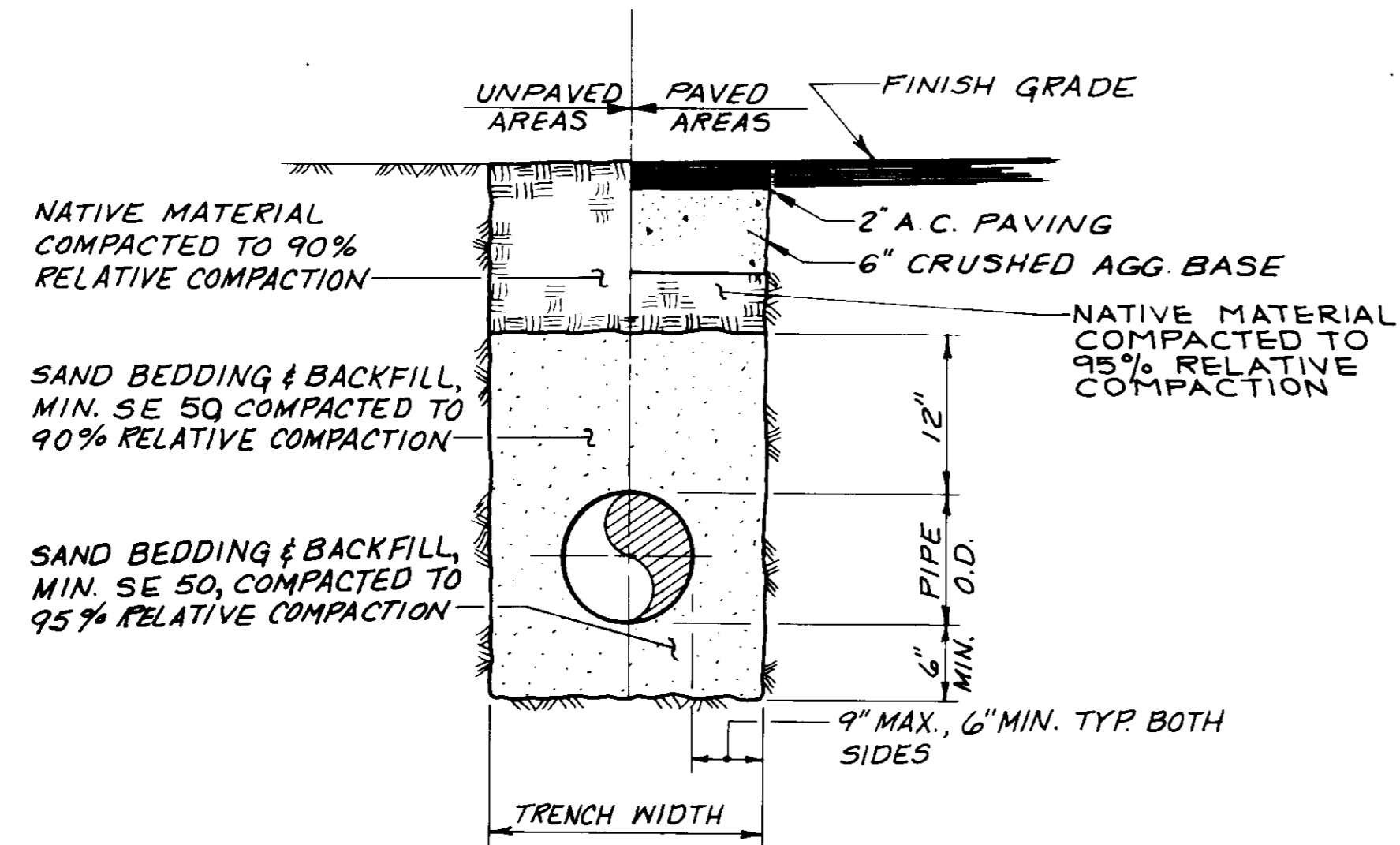
SEE PIPE SUPPORT DETAIL

PIPE SUPPORT SEE DETAIL

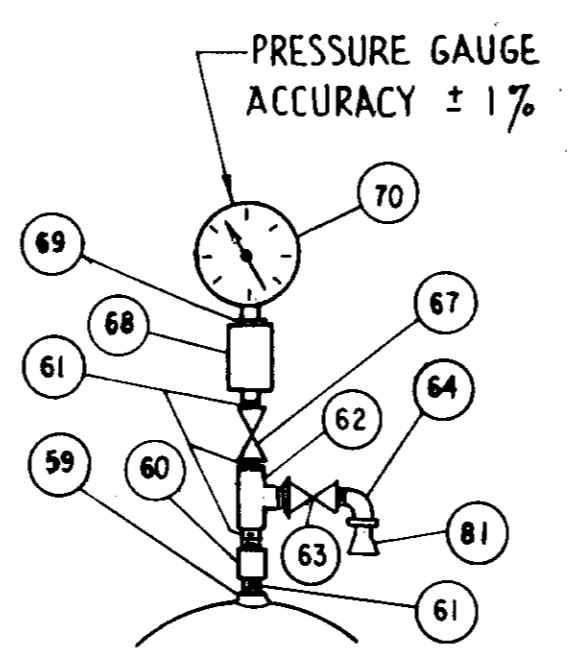
CONCRETE ENCASUREMENT

10'-0" CAN LENGTH AS REQ'D. BY PUMP MANUFACTURER PLUS ONE ADD'L BOWL LENGTH



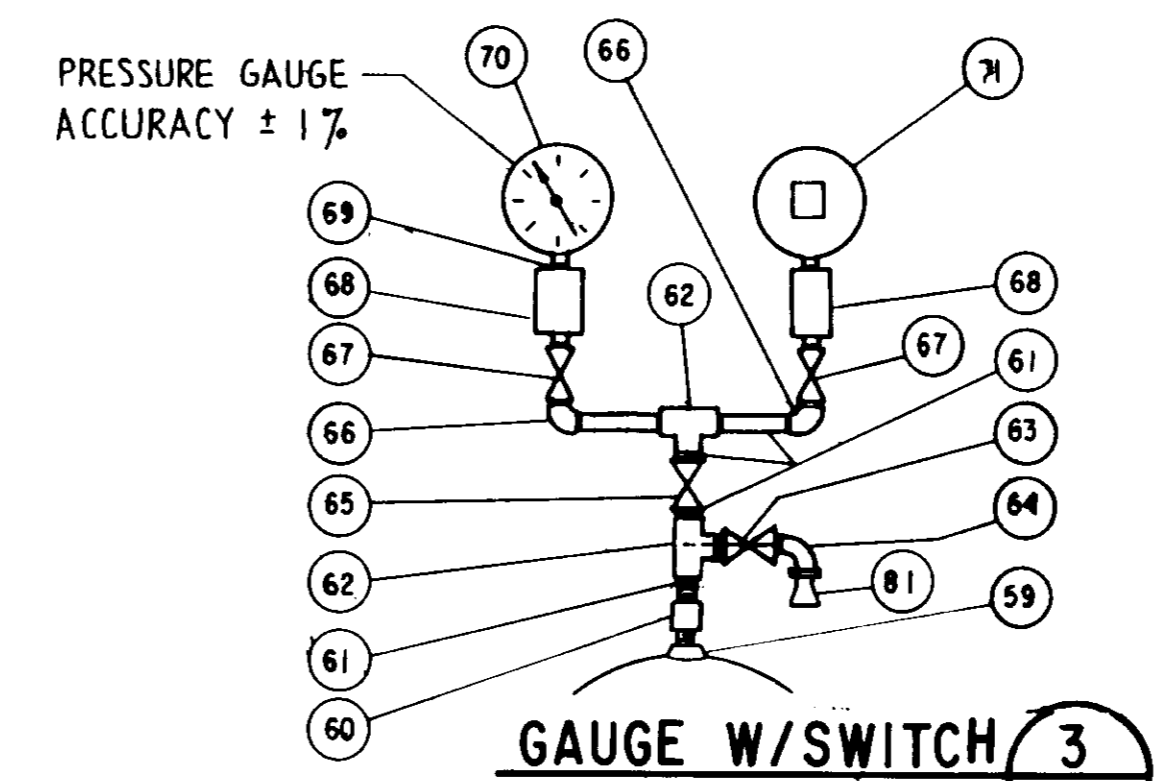


TRENCH DETAIL
SCALE: 1" = 1'-0"

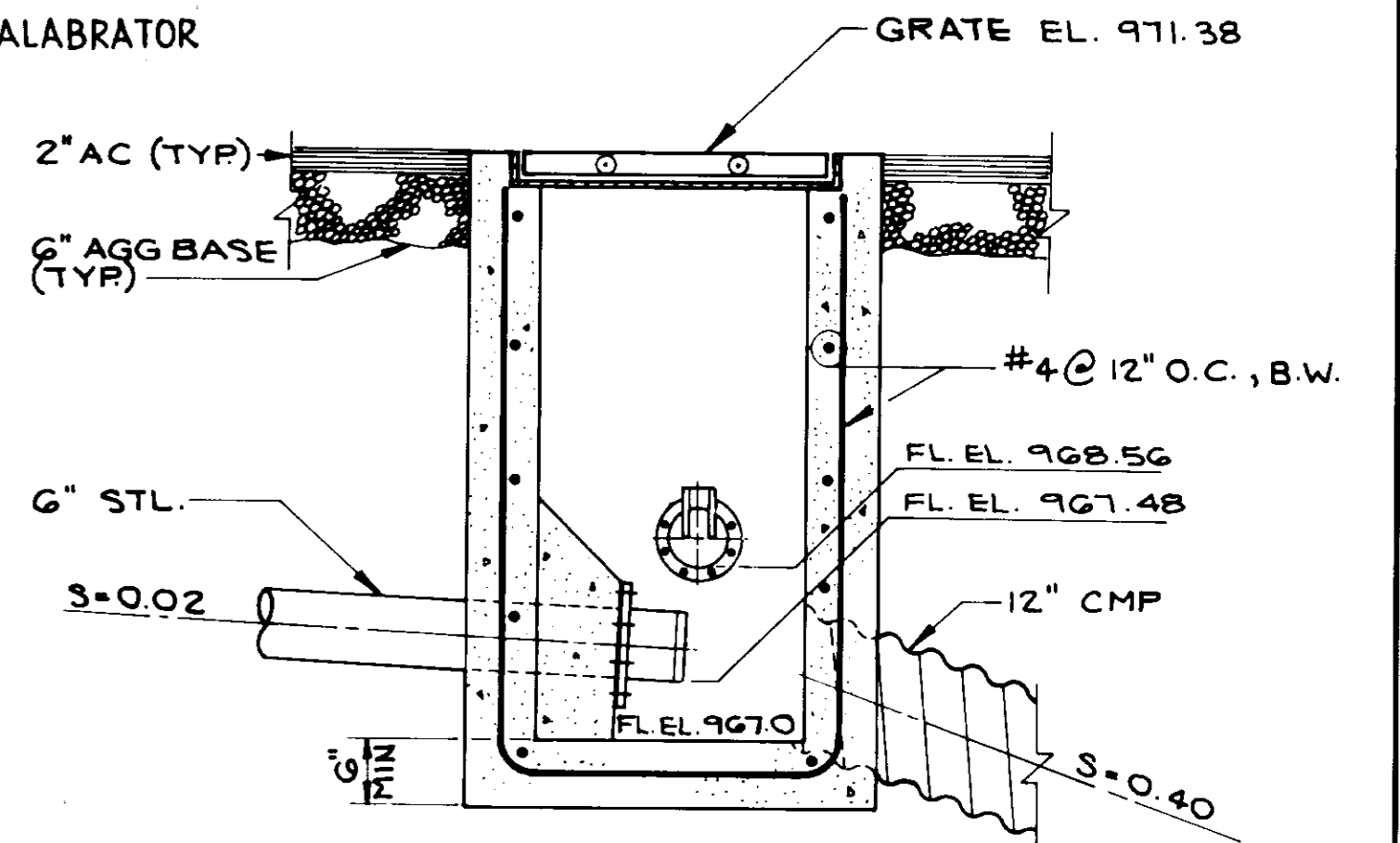


GAUGE ONLY (2)

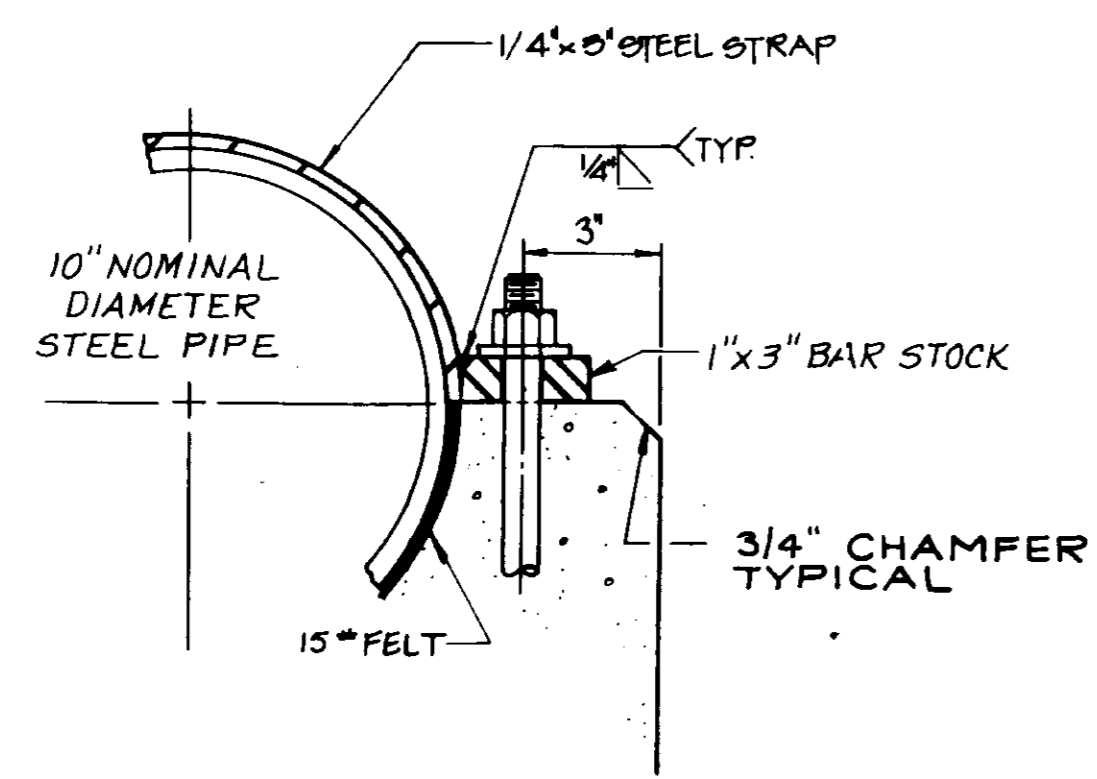
PRESSURE GAUGES
4 1/2" PRESSURE GAUGE MARSH - PATTERN, 1/4" MALE BOTTOM EQUIPED WITH RECALBRATOR
FOR SUCTION SIDE - PRESSURE RANGE 0-300P.S.I. (H4258)
FOR DISCHARGE SIDE - PRESSURE RANGE 0-600P.S.I. (H4264)



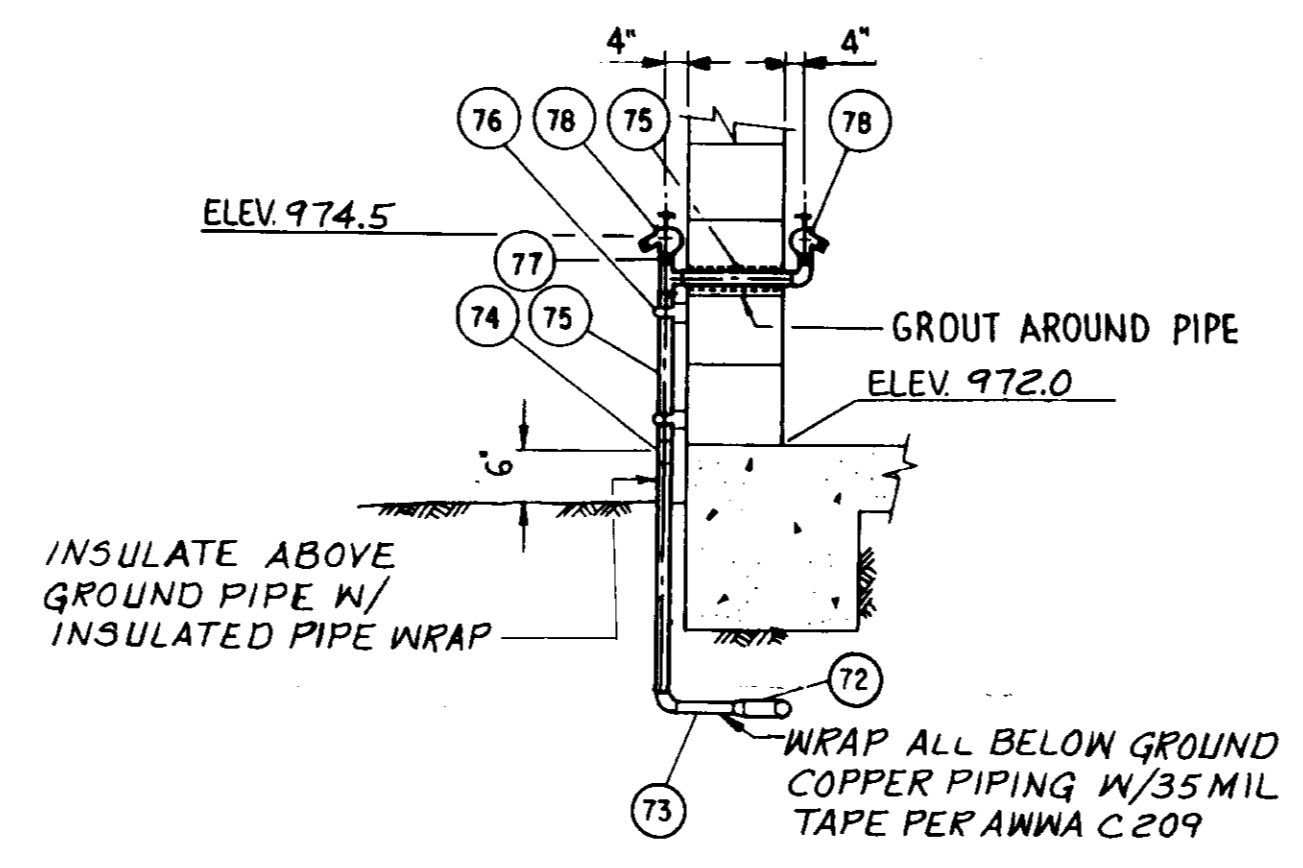
GAUGE W/SWITCH (3)



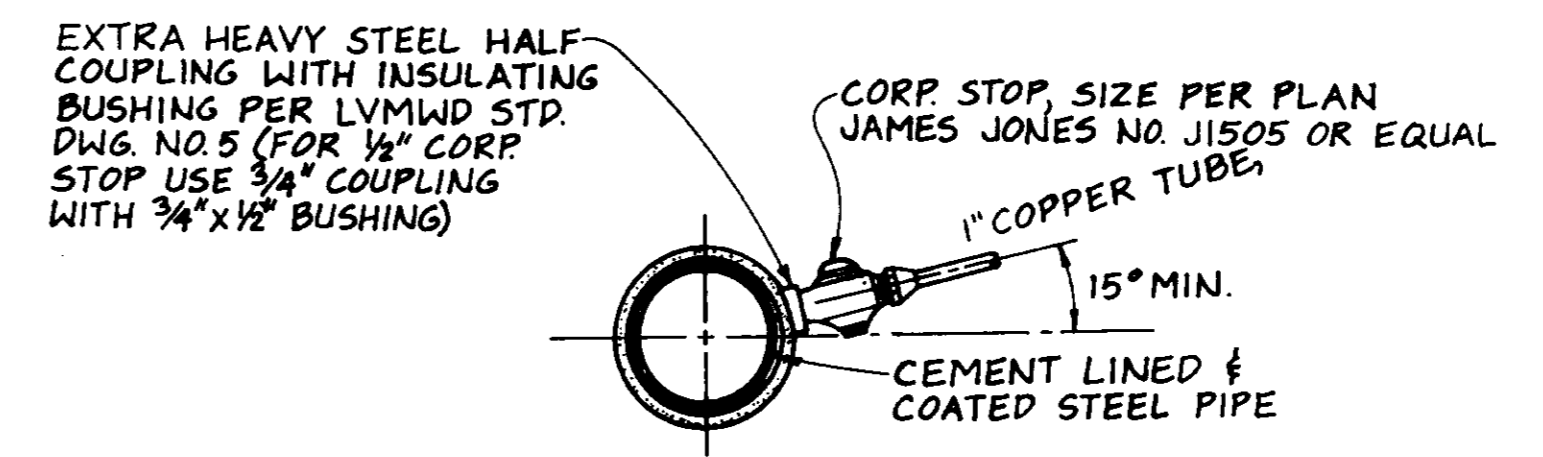
ELEVATION



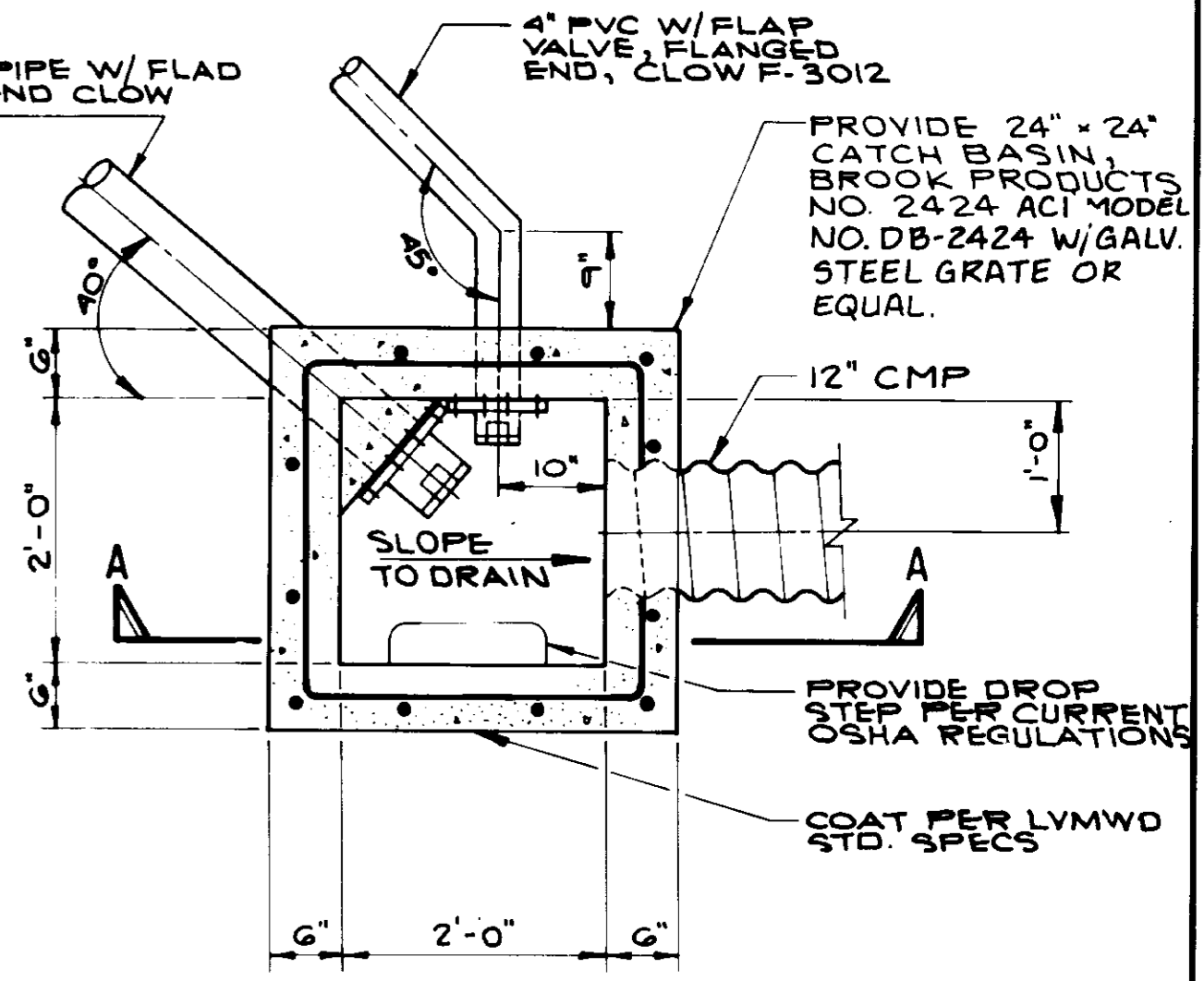
DETAIL A
NOT TO SCALE



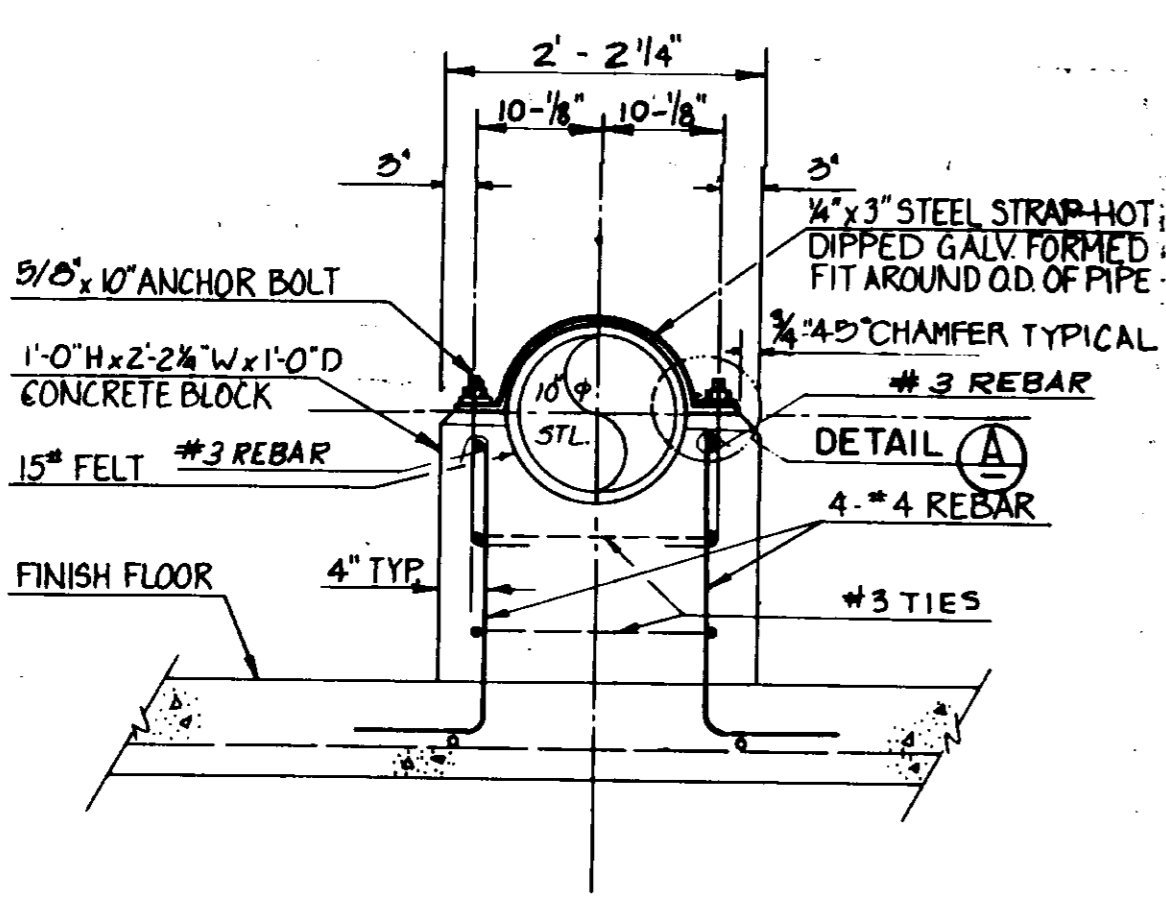
HOSE BIB DETAIL (4)
NOT TO SCALE



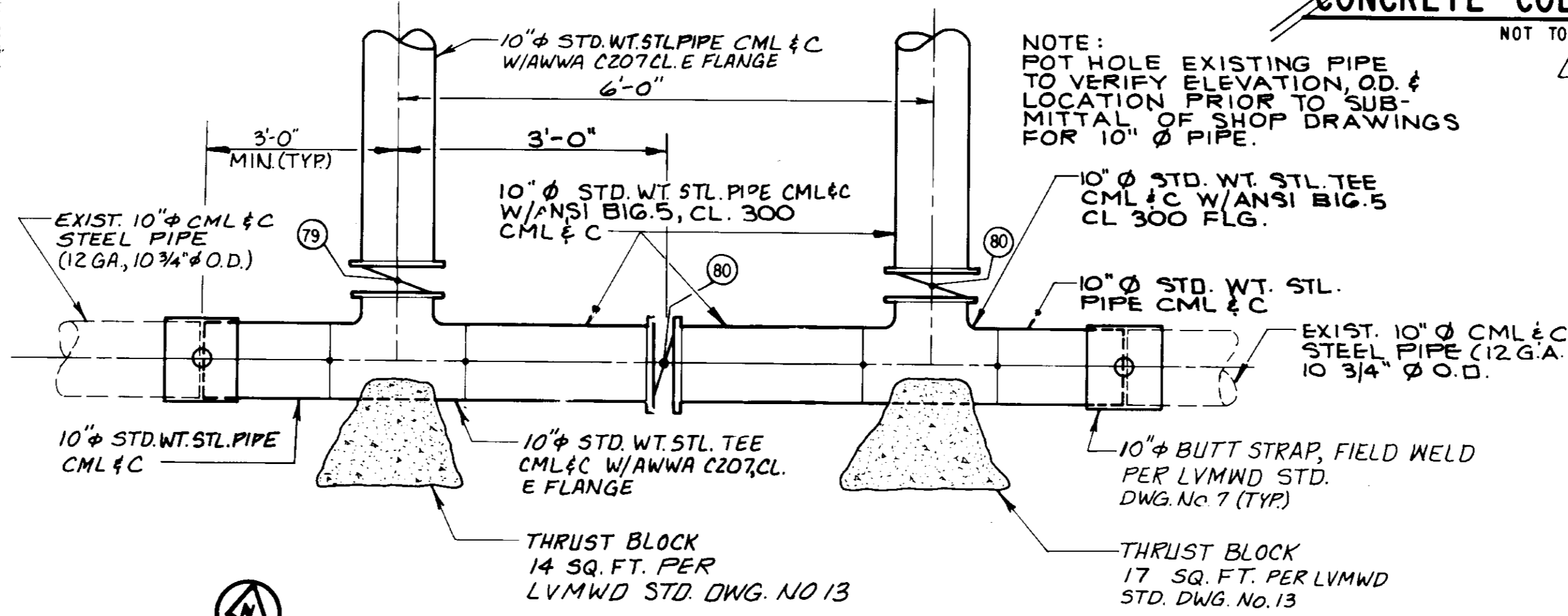
CORPORATION STOP DETAIL (5)
NOT TO SCALE



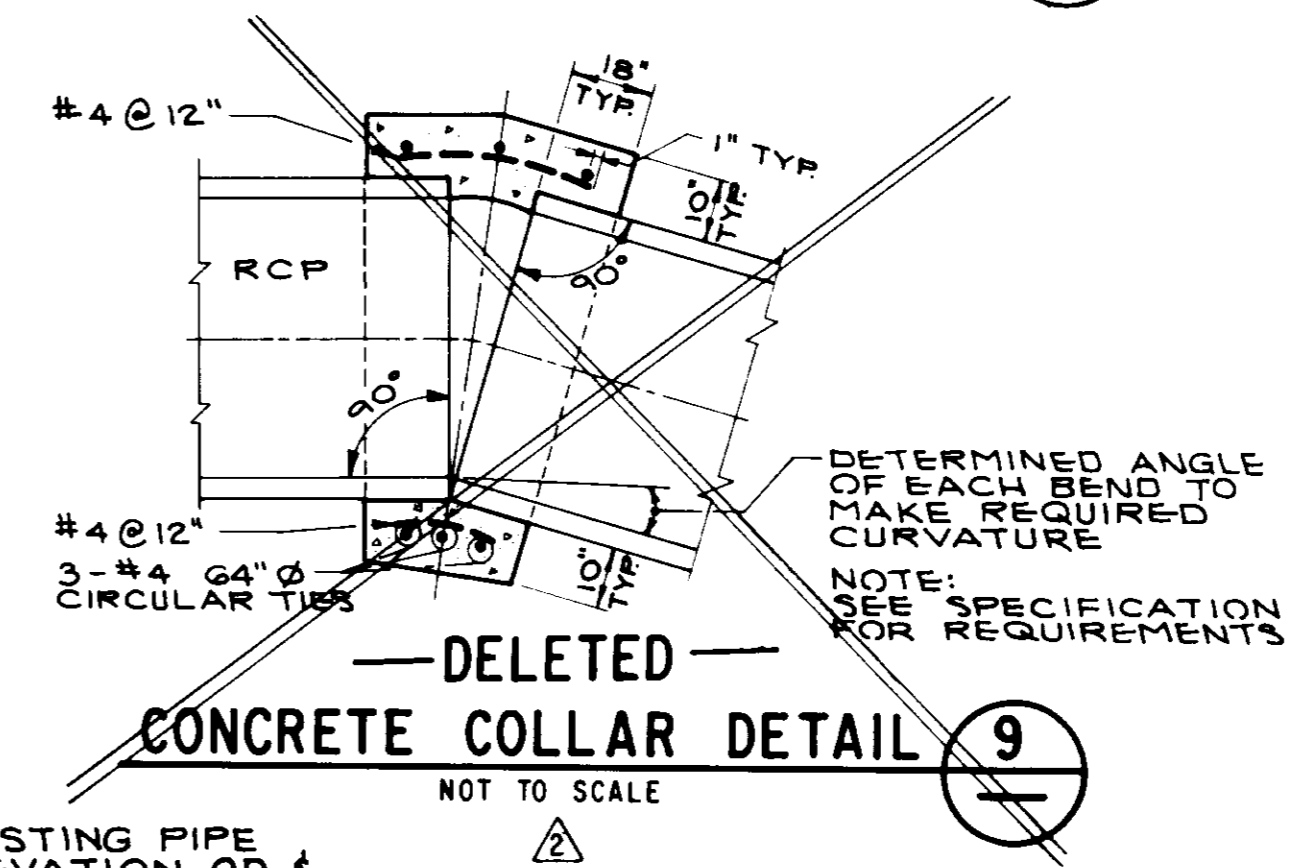
CATCH BASIN DETAIL (6)
SCALE: 3/4" = 1'-0"



PIPE SUPPORT DETAIL (7)
SCALE: 1" = 1'-0"

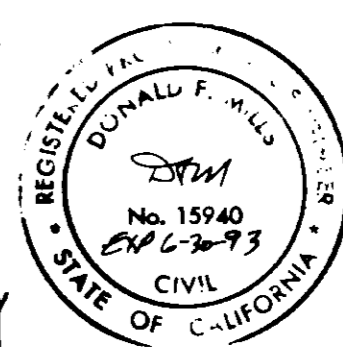


PIPING CONNECTION DETAIL (8)
SCALE: 3/4" = 1'-0"



DELETED CONCRETE COLLAR DETAIL (9)
NOT TO SCALE

RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THE FACILITY IDENTIFIED UNDER THE CONTRACT ID# 05899. THIS BLOCK THIS DRAWING HAS BEEN PREPARED BY THE CONTRACTOR AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION.
CONTRACT NO. 14194 AGENCY: LVMWD DATE: 11/4/94
DRAFTED BY: ASP AGENCY REC DATE: 12/18/93
PROJ. ENGR: MEB AGENCY REC DATE: 1/28/94



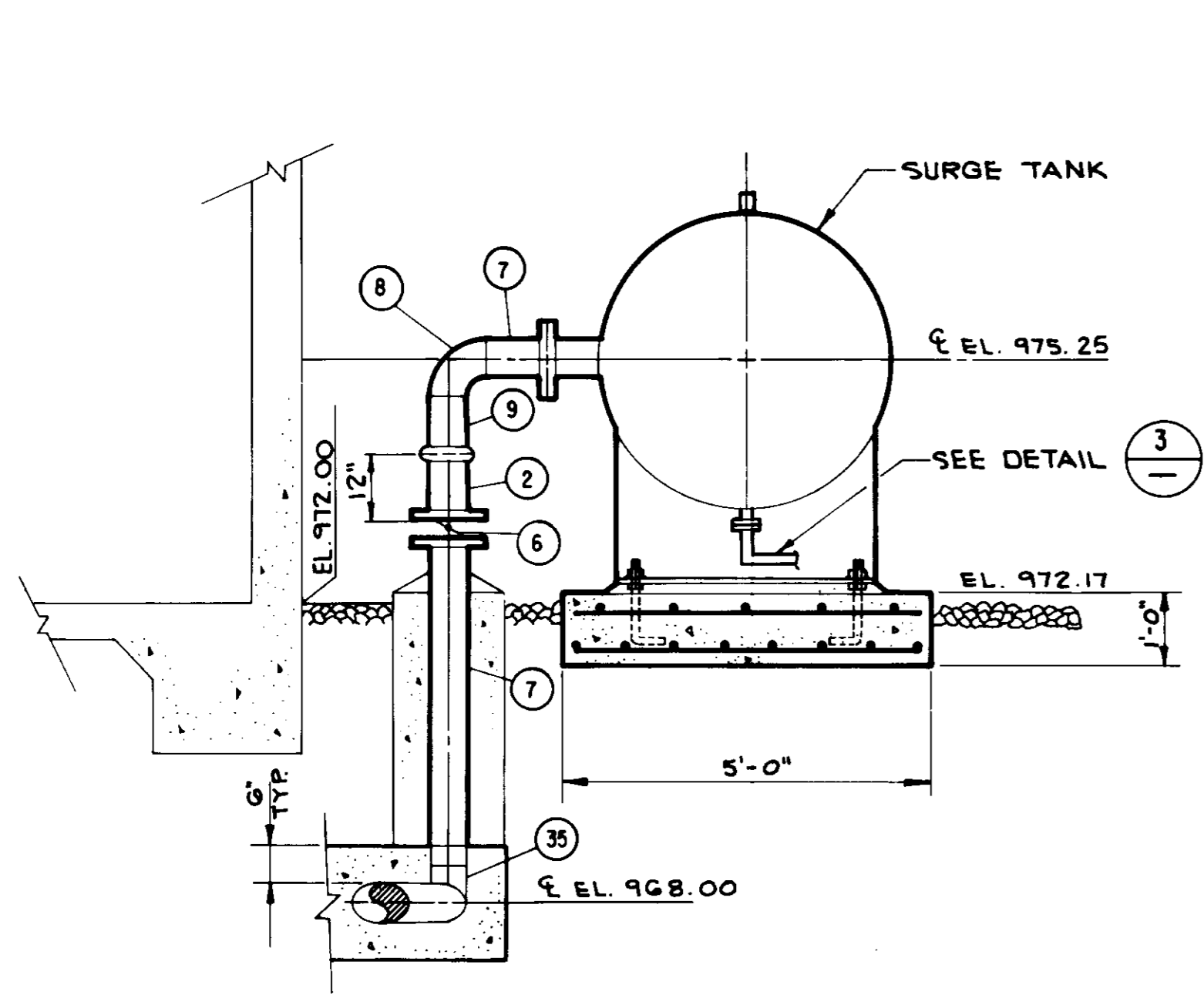
05899

LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
PIPING & MISCELLANEOUS DETAILS

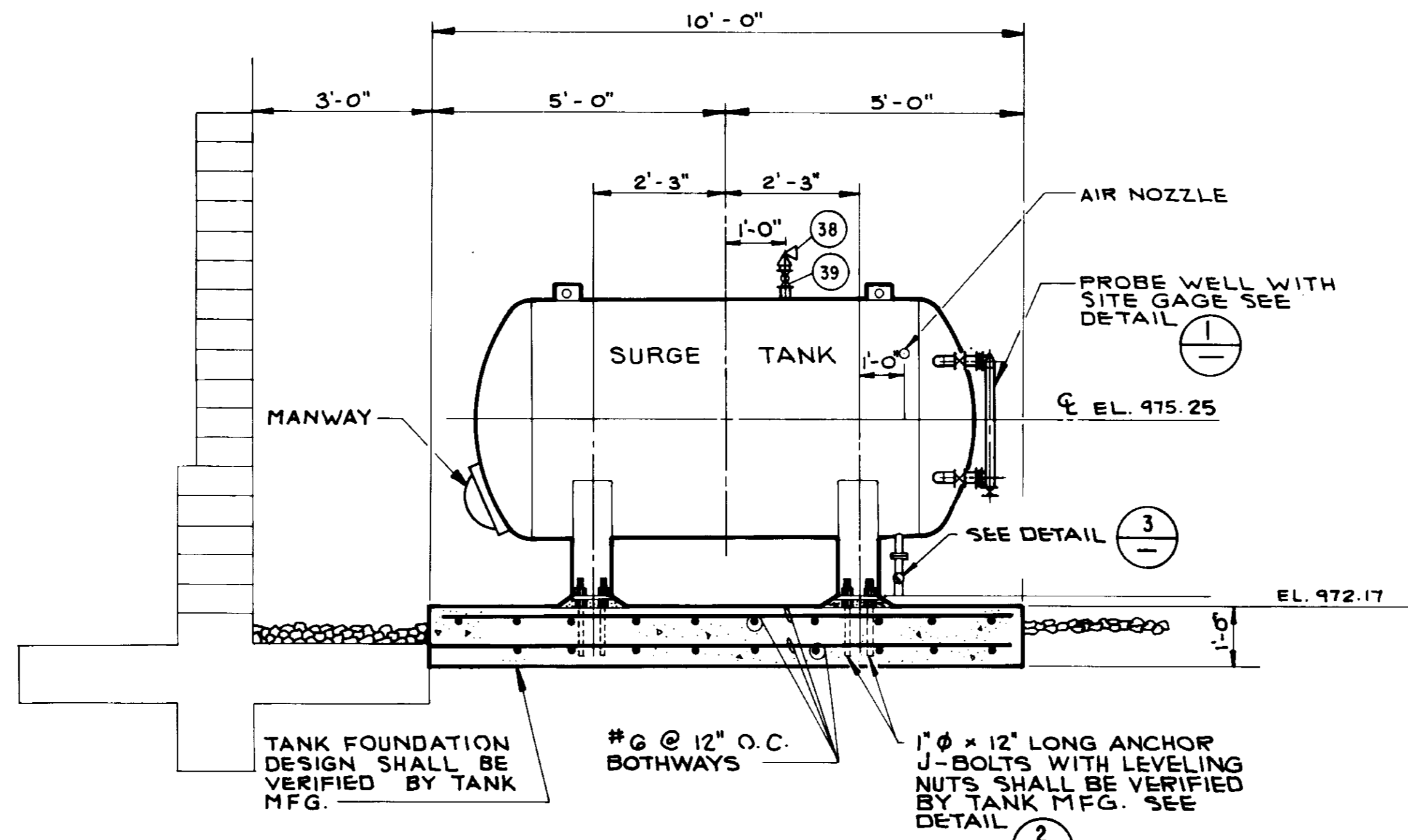
BOYLE ENGINEERING CORPORATION
consulting engineers & architects
VENTURA, CA

2	12/13/93	RECORD DRAWING	
	5/27/94	ISSUED FOR CONSTRUCTION	
REV	DATE	DESCRIPTION	APP

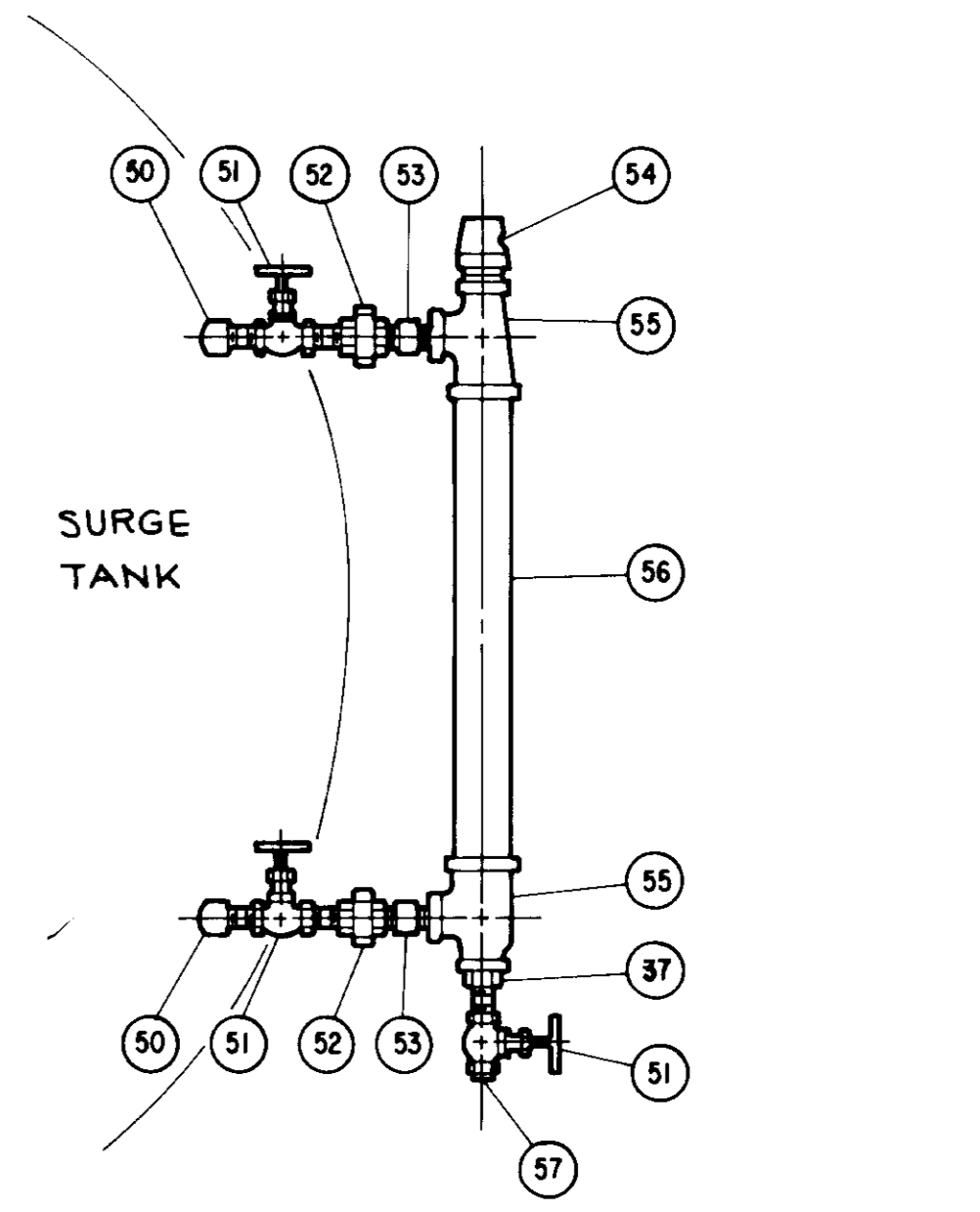
SHEET NO. 9 OF 24 SHEETS



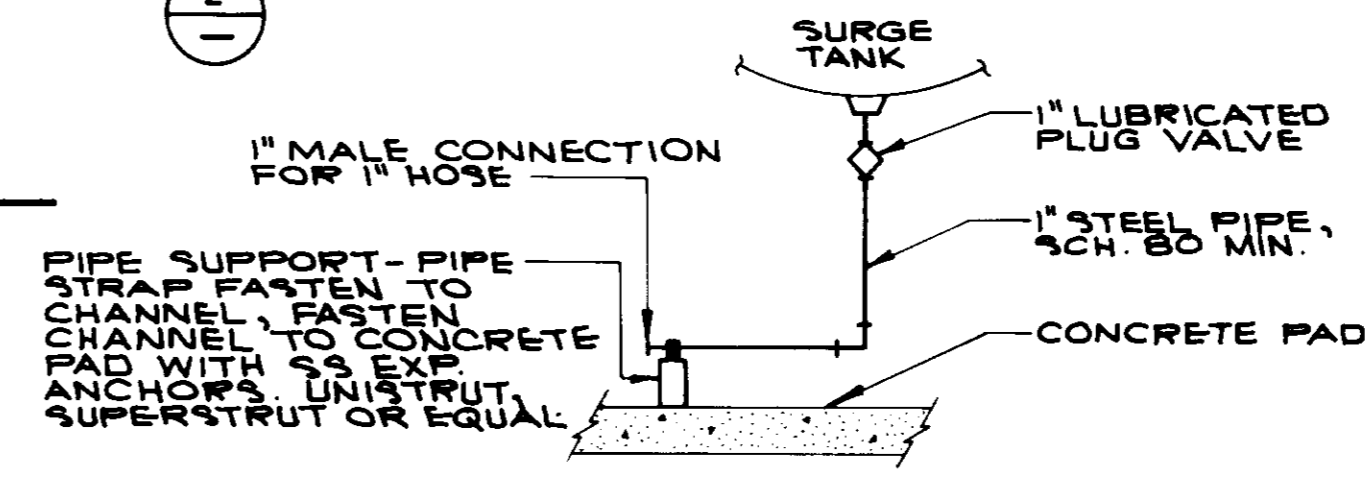
SECTION A-A
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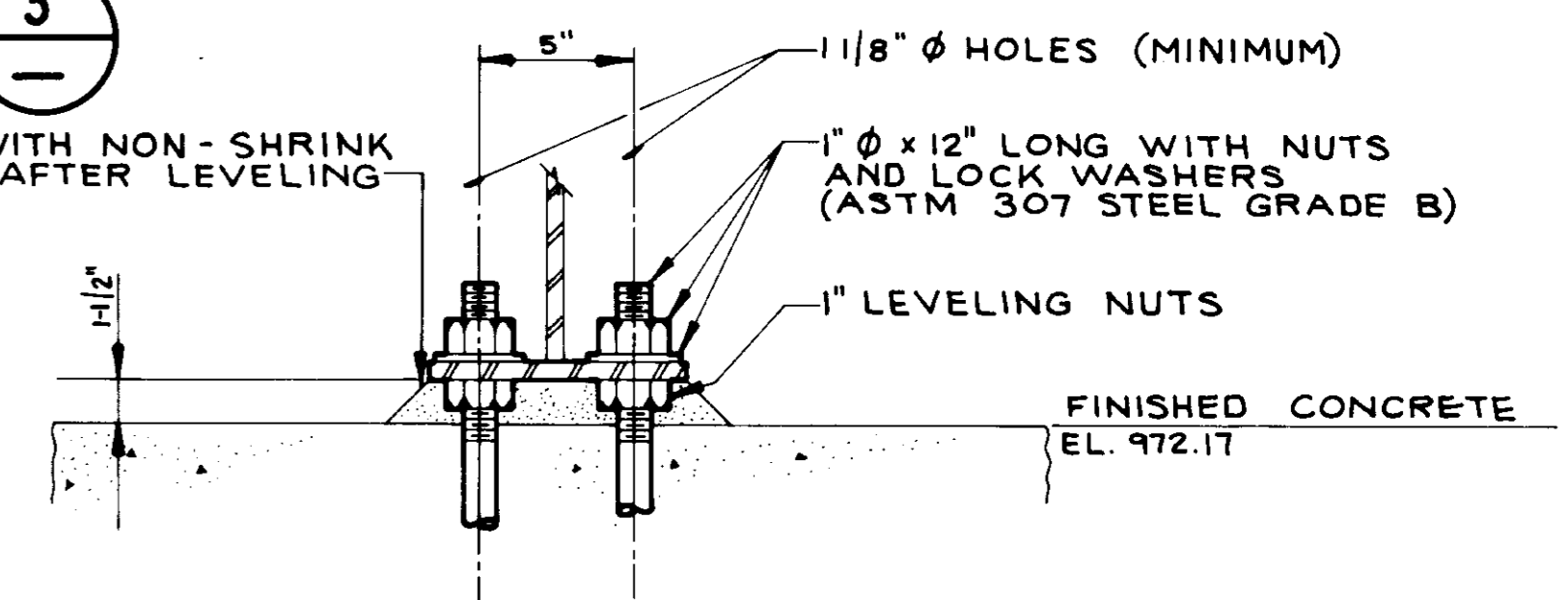
SECTION B-B
SCALE: 1/2" = 1'-0"



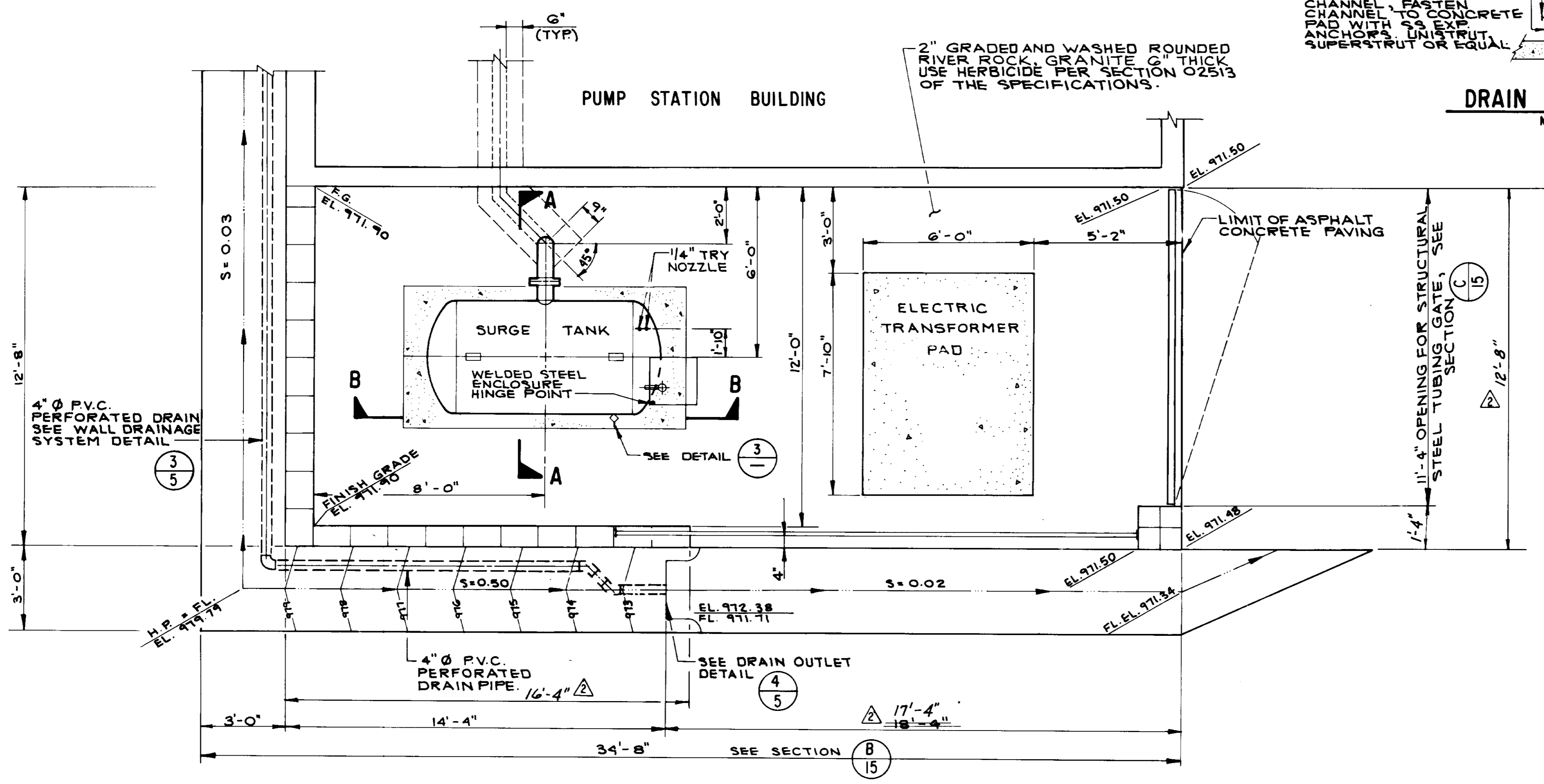
SURGE TANK PROBE WELL
NOT TO SCALE



DRAIN PIPE DETAIL
NOT TO SCALE



LEVELING NUTS - DETAIL
NOT TO SCALE



PLAN
SCALE: 3/8" = 1'-0"

05900

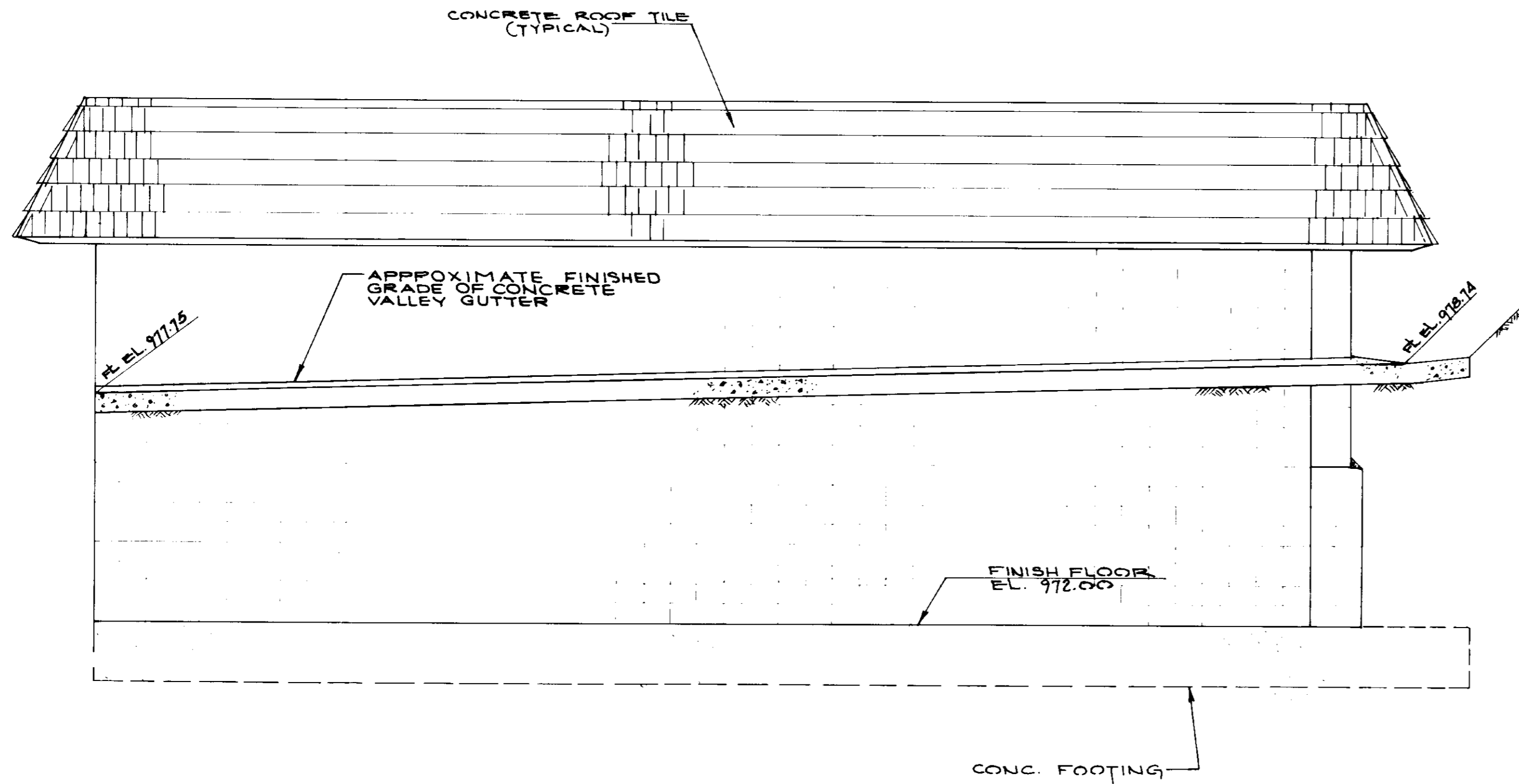
RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES CONSTRUCTED UNDER THE CONTRACT IDENTIFIED IN THE TITLE BLOCK. THIS DRAWING MAY BE REPRODUCED FOR THE CONTRACTOR AND THE CONSULTING ENGINEER ONLY.
CONTRACT NO. 11111 AGENCY CVM DATE 1/14/94
DRAFTED BY AS.P. AGENCY B.E.C. DATE 12/21/93
PROJ. ENGR. PAB AGENCY B.E.C. DATE 1/28/94



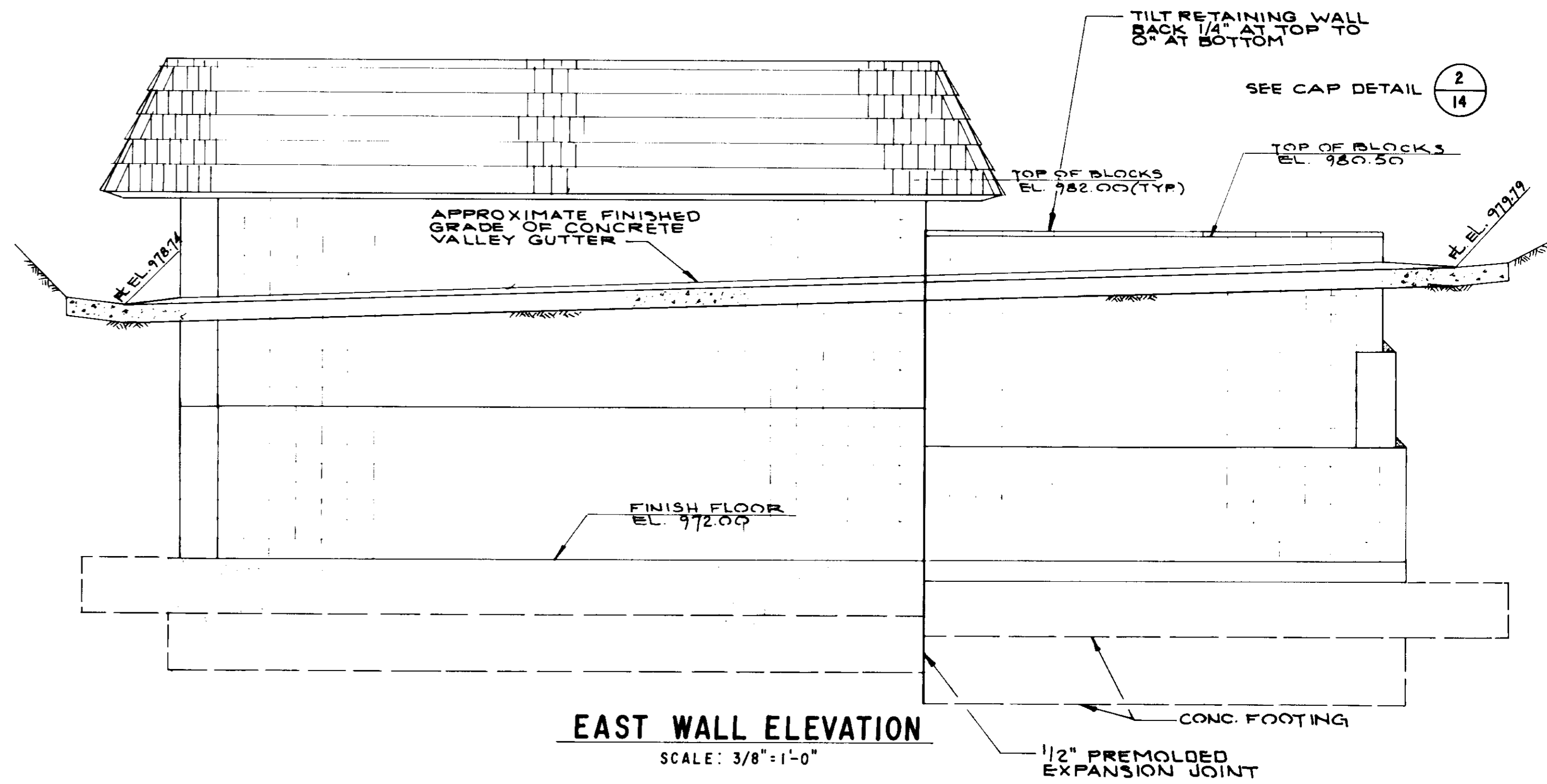
LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
SURGE TANK PLAN AND ELEVATIONS

BOYLE ENGINEERING CORPORATION
consulting engineers / architects
VENTURA, CA.

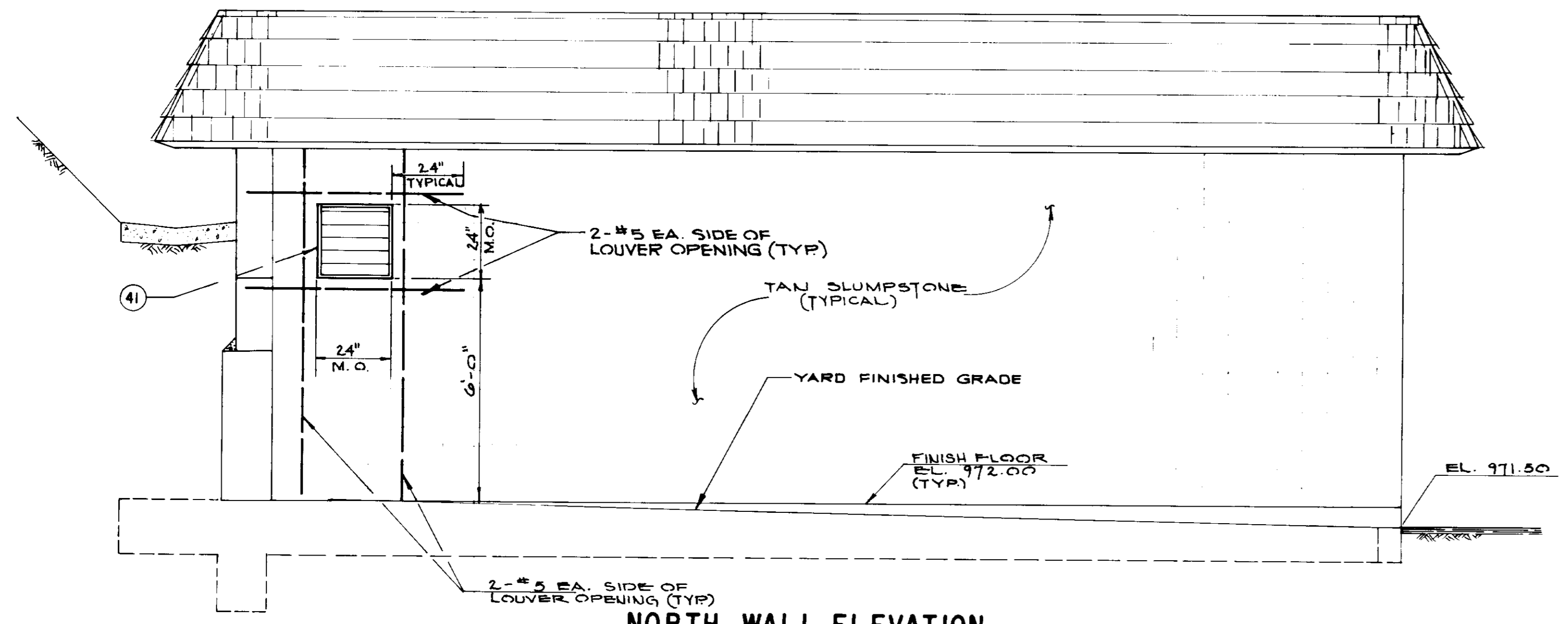
DESIGN	DRAWN	CHECKED	C.A. NO.	DRAWING NO.	SHEET NO.
M.D./M.B.	D.P.J.	M.E.B.	11111	5-225	10
REV	DATE	DESCRIPTION	APP.		
	12/13/93	RECORD DRAWING			
	5/29/94	ISSUED FOR CONSTRUCTION			



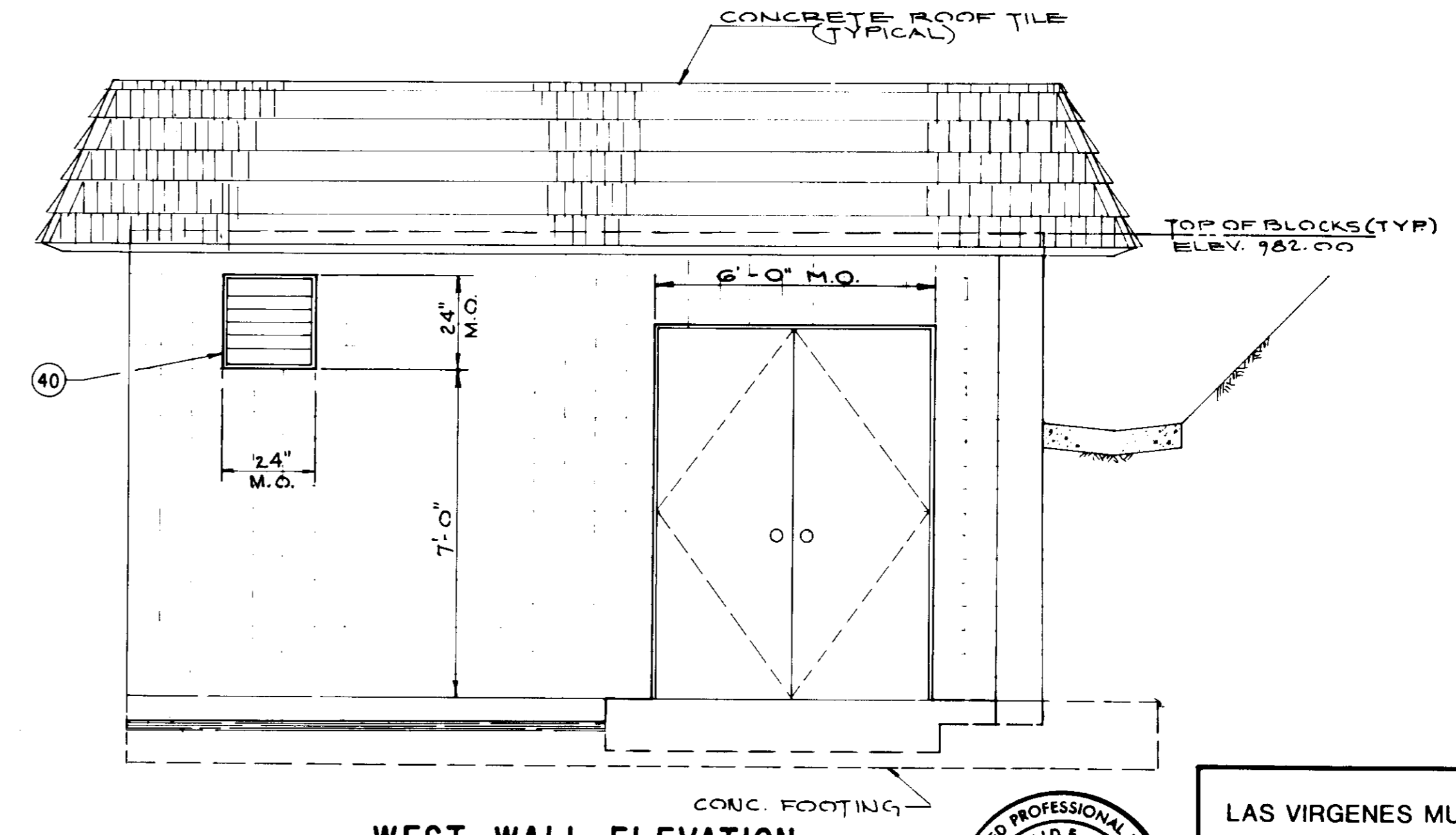
SOUTH WALL ELEVATION
SCALE: 3/8"=1'-0"



EAST WALL ELEVATION
SCALE: 3/8"=1'-0"



NORTH WALL ELEVATION
SCALE: 3/8"=1'-0"



WEST WALL ELEVATION
SCALE: 3/8"=1'-0"

RECORD DRAWING
 THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES CONSTRUCTED UNDER THE CONTRACT IDENTIFIED BY THE TITLE BLOCK. THIS DRAWING HAS BEEN PREPARED ON THE BASIS OF THE INFORMATION PROVIDED BY THE CONTRACTOR AND THE CONSTRUCTION INSPECTOR.
 CONST. INSP. J.A.V. AGENCY VMWD DATE 1/1/99
 DRAFTED BY A.S.P. AGENCY BEC DATE 12/13/88
 PROJ. ENGR. PAB AGENCY BEC DATE 12/13/88



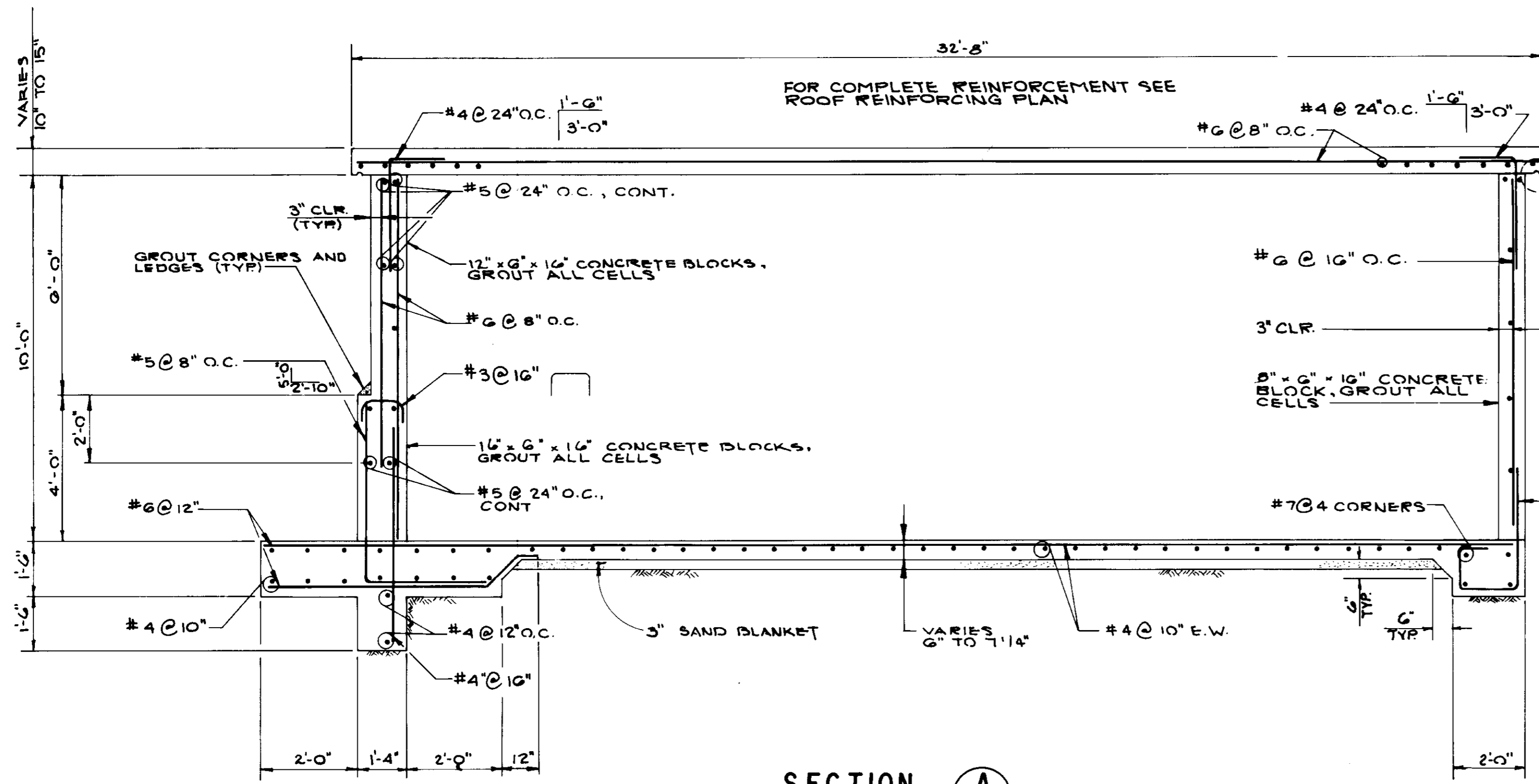
05901

LAS VIRGENES MUNICIPAL WATER DISTRICT
 COLD CANYON PUMP STATION
 ELEVATIONS

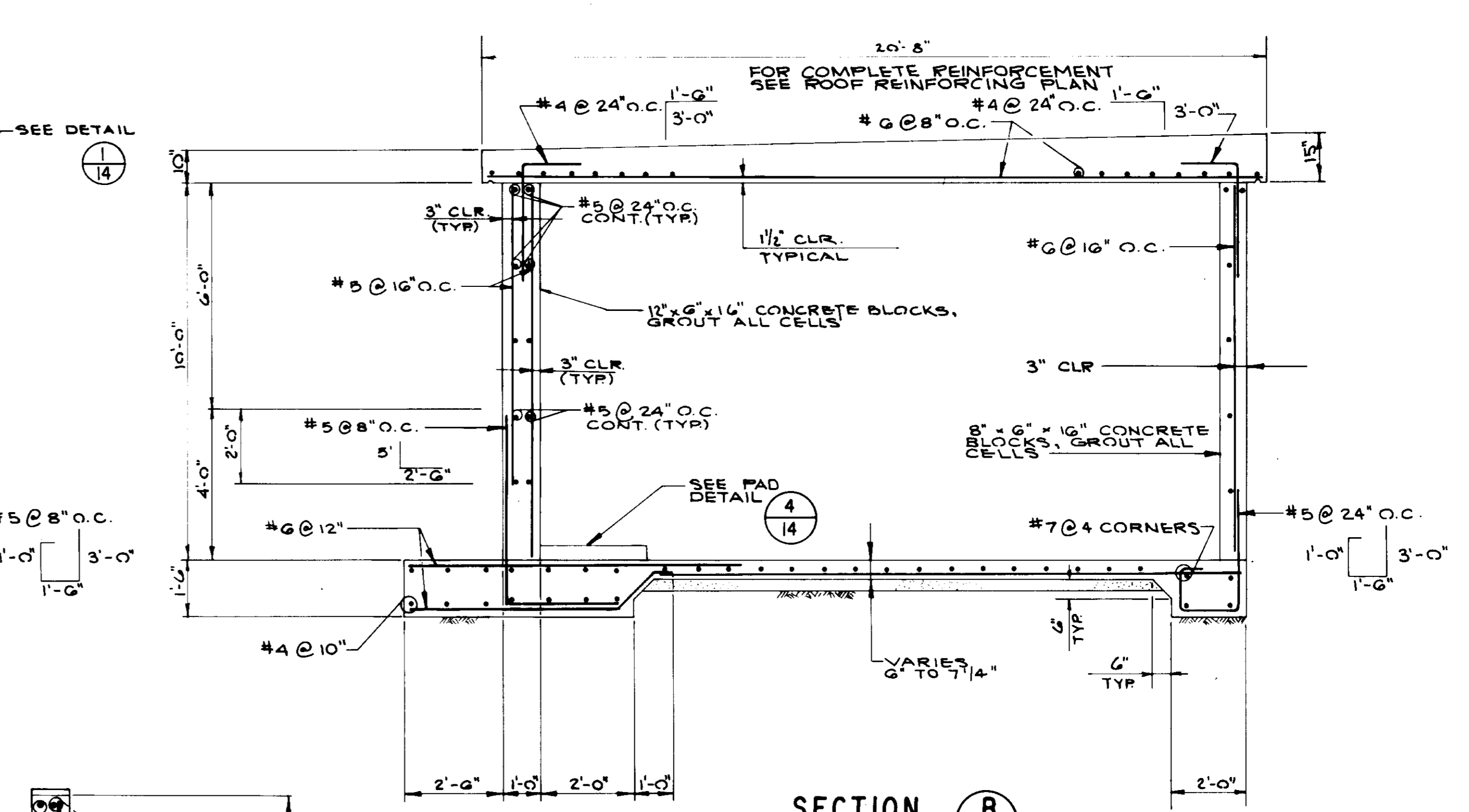
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 VENTURA, CA

DESIGN: M.D./M.B. DRAWN: A.S.P. CHECKED: HEB DATE: 4-8-91 SHEET NO. 11
 PROJECT: 05901 DRAWING NO. VT-L02-163-03 OF 24 SHEETS

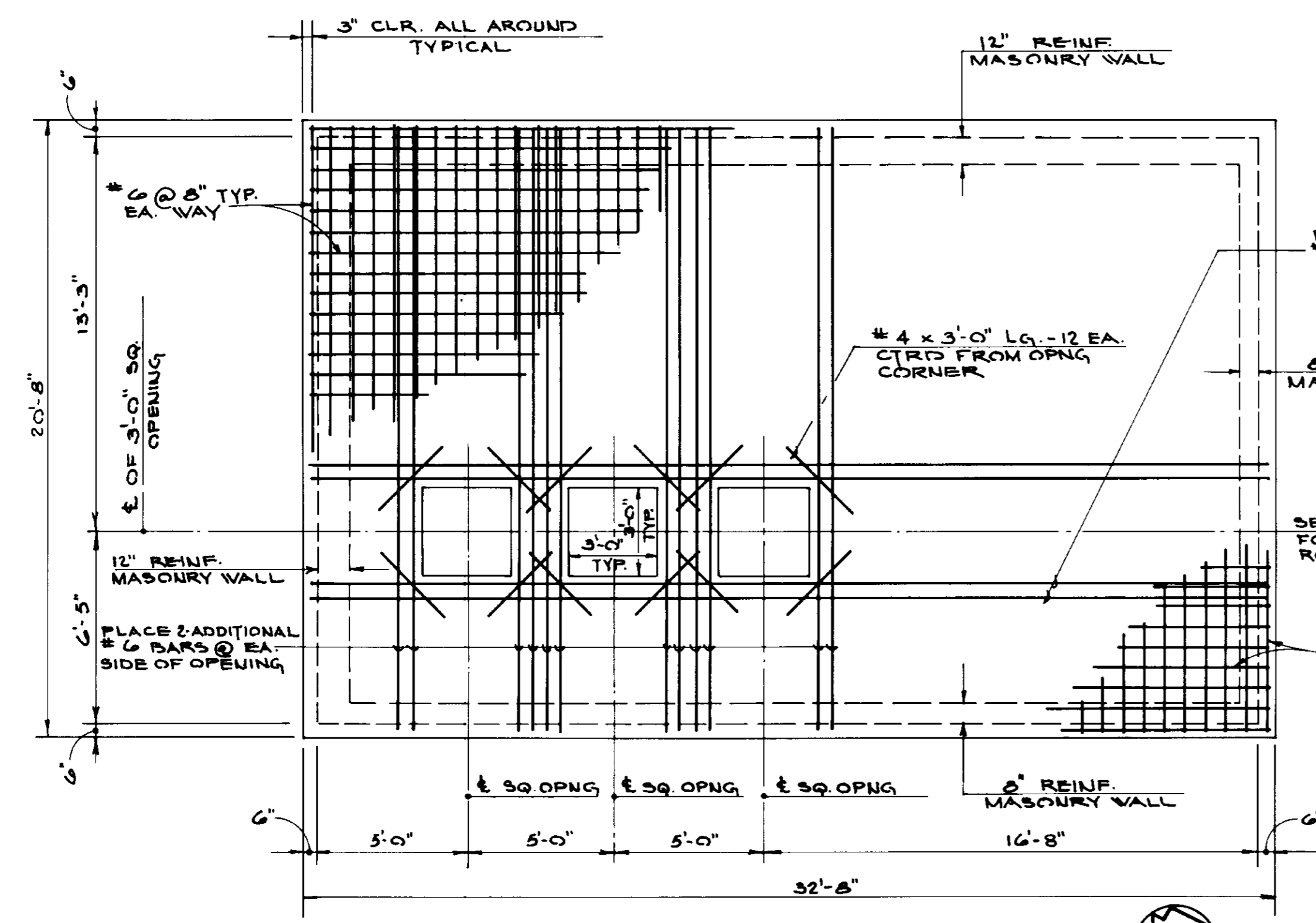
REV.	DATE	DESCRIPTION	APP.
	5/29/91	ISSUED FOR CONSTRUCTION	HEB



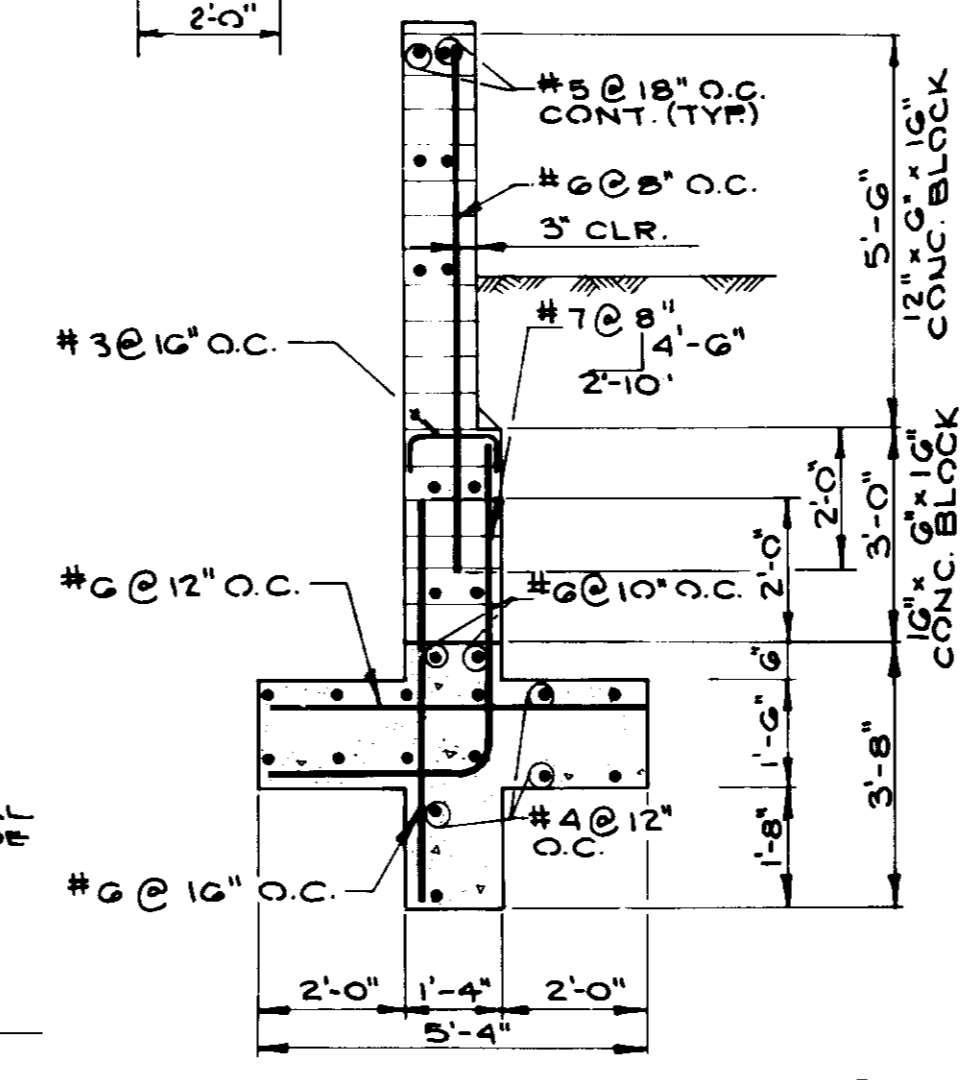
SECTION A
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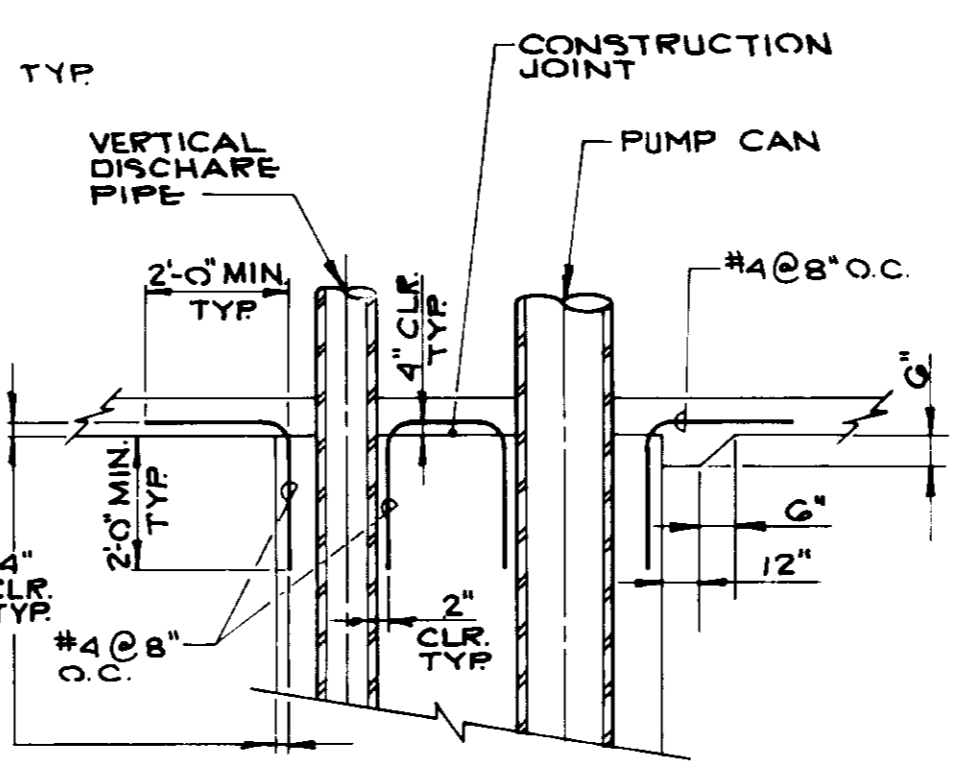
SECTION B
SCALE: 3/8" = 1'-0"



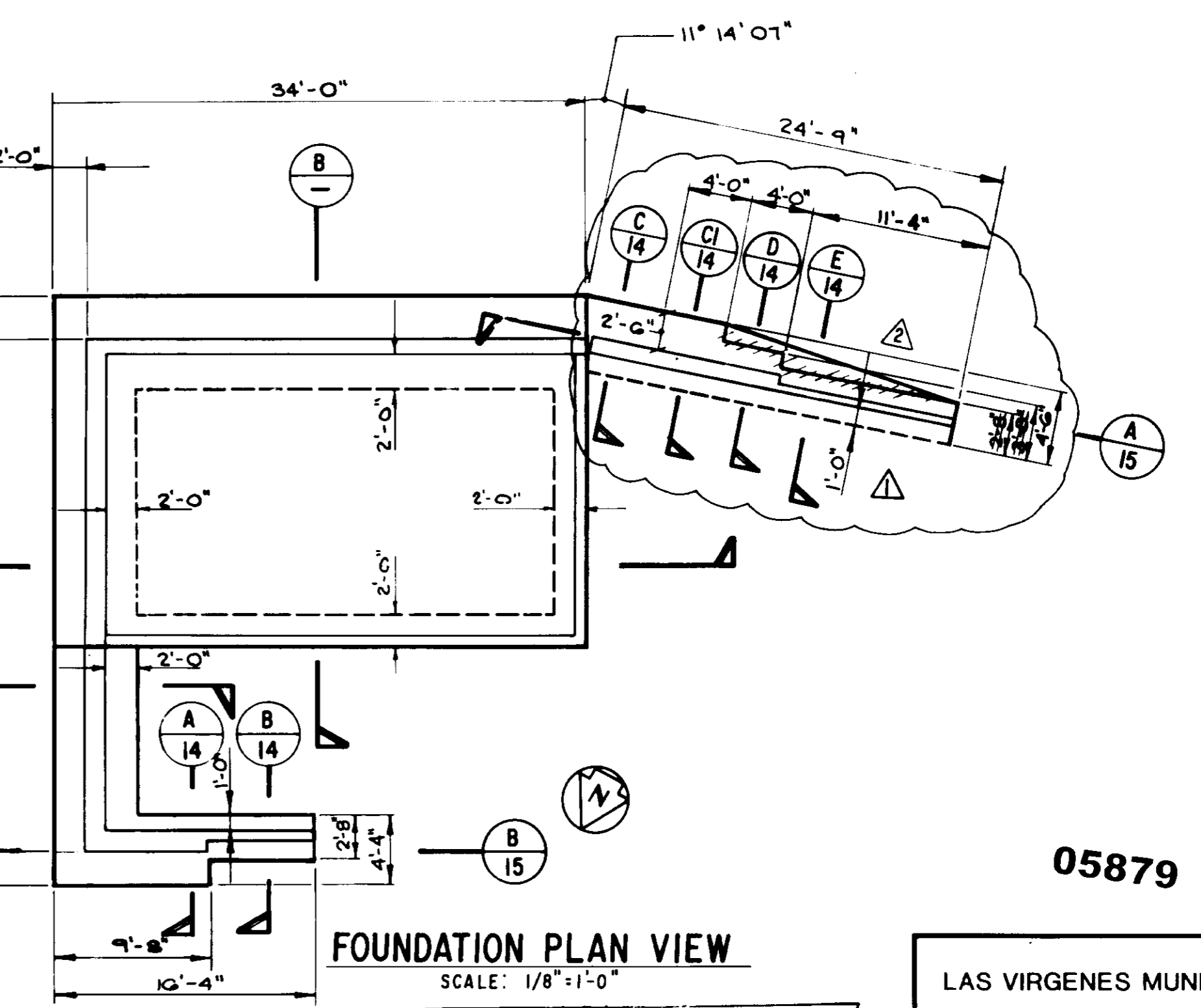
ROOF REINFORCING PLAN
SCALE: 3/8" = 1'-0"



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



PIPE PENETRATION DETAIL
NOT TO SCALE



FOUNDATION PLAN VIEW
SCALE: 1/8" = 1'-0"

RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES CONSTRUCTED UNDER THE CONTRACT IDENTIFIED IN THE TITLE BLOCK. THIS DRAWING HAS BEEN REVIEWED BY THE CONTRACTOR AND THE CONSULTING ENGINEER.
CONTRACT NO. 12/13/93 REC. DATE 1/14/94
DRAFTED BY M.P. AGENCY B.E.C. DATE 12/14/93
PROJ. ENGR. P.A.B. AGENCY REC. DATE 1/14/94

12/13/93	RECORD DRAWING		
1/18/94	ISSUED FOR CONSTRUCTION		
REV.	DATE	DESCRIPTION	APP.



05879

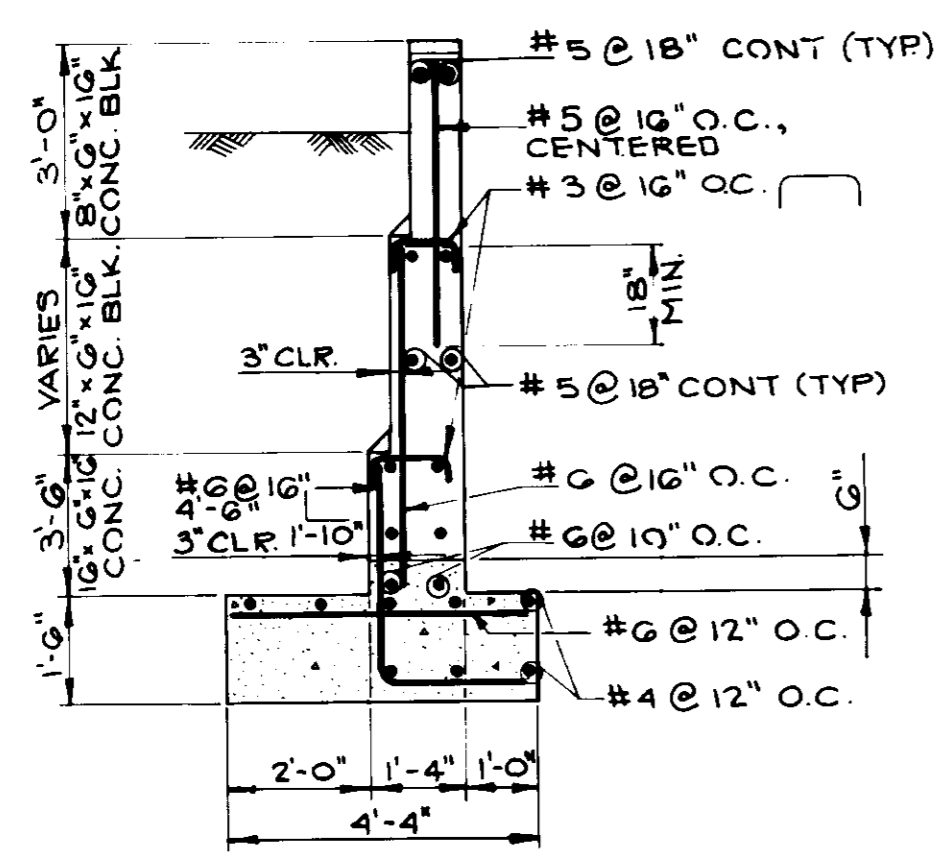
LAS VIRGENES MUNICIPAL WATER DISTRICT

COLD CANYON PUMP STATION

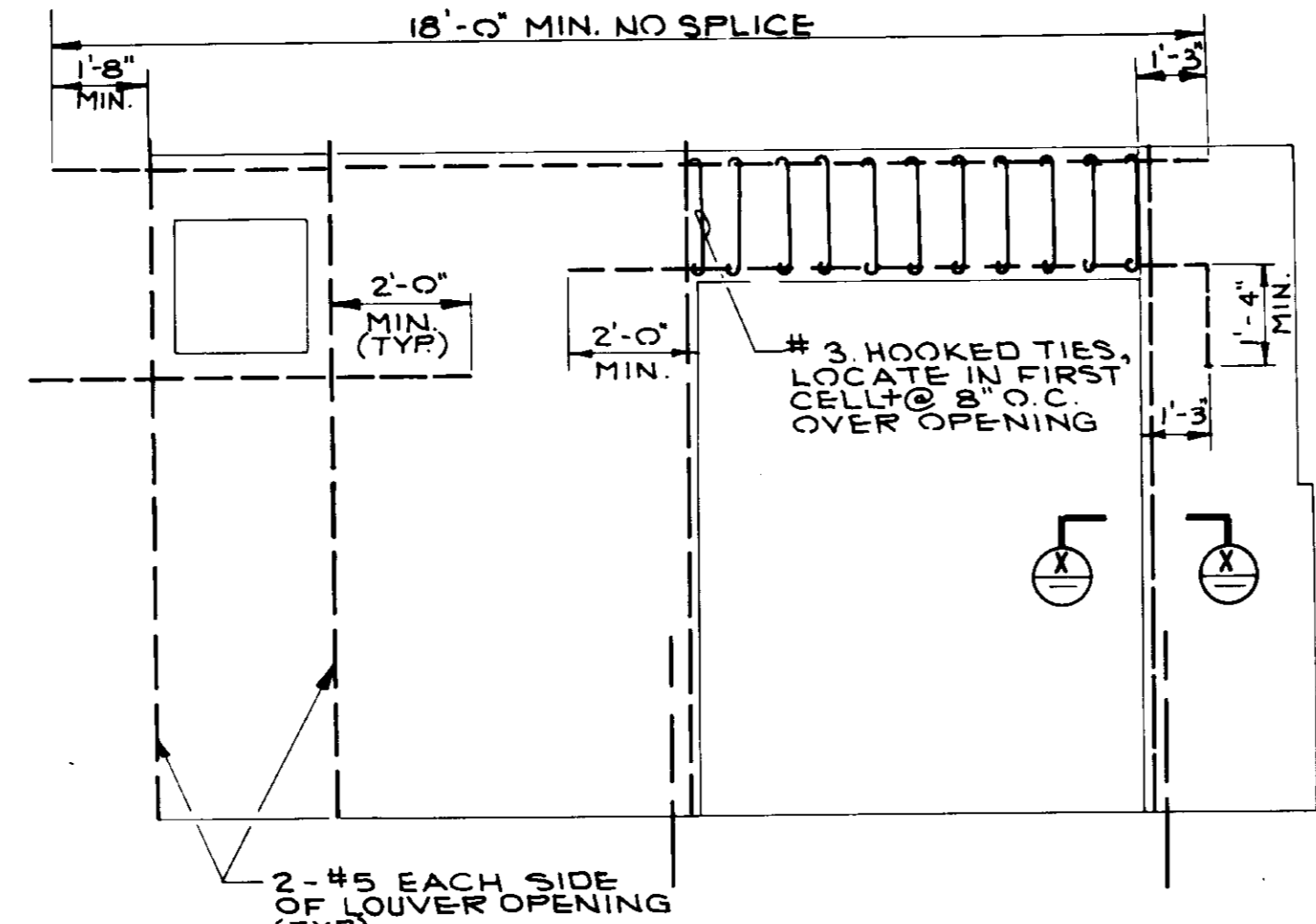
STRUCTURAL SECTIONS AND ROOF REINFORCING PLAN

BOYLE ENGINEERING CORPORATION
consulting engineers & architects
VENTURA, CA

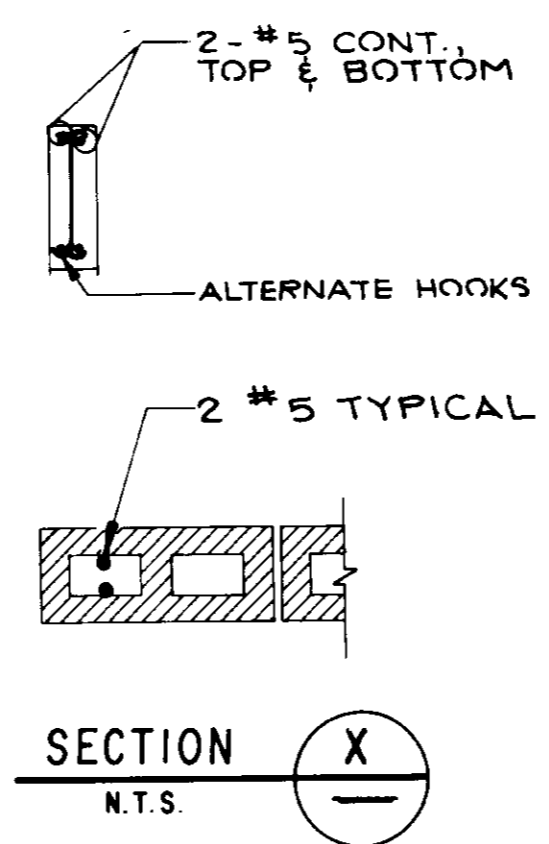
DESIGN: M.D./M.E.B. DRAWN: B.P.J. CHECKED: H.E.B. DATE: 1/14/94
C.A. NO. VT-102-163-03 DRAWING NO. S-225 SHEET NO. 13 OF 24 SHEETS



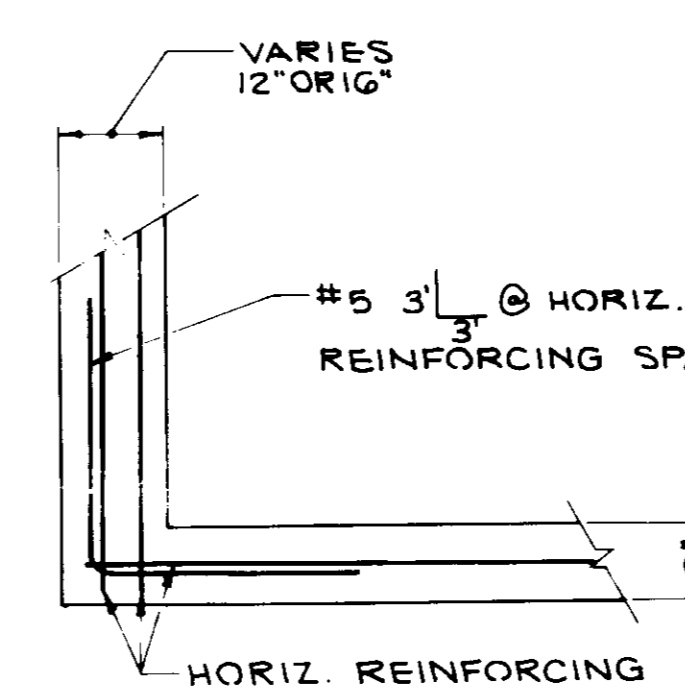
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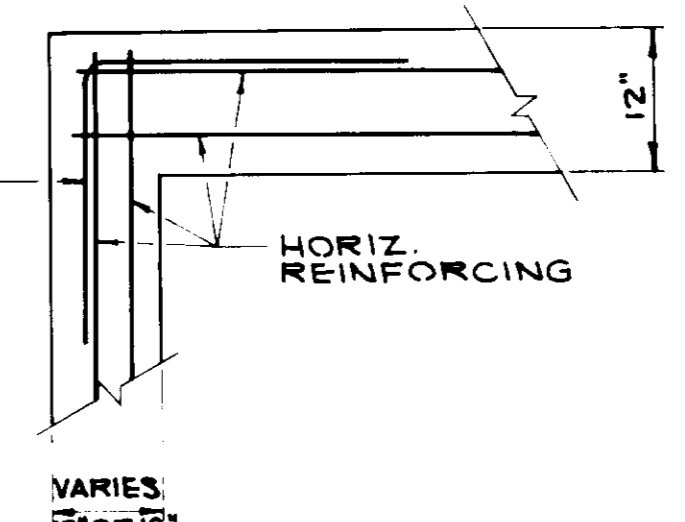
LINTEL DETAIL
N.T.S.



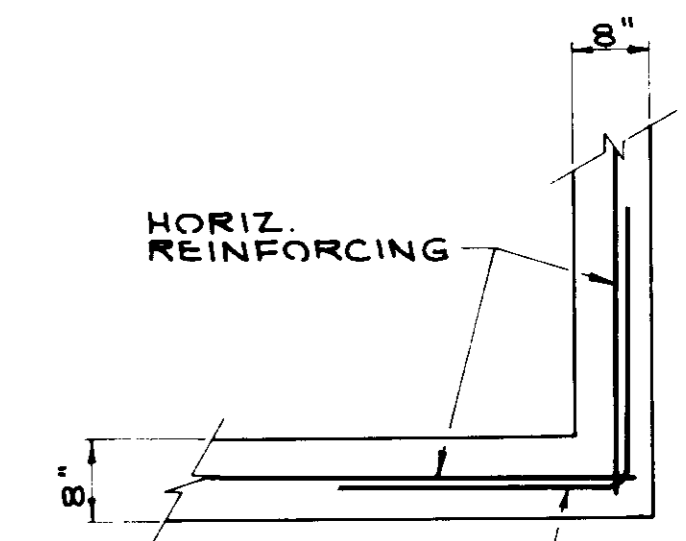
SECTION X
N.T.S.



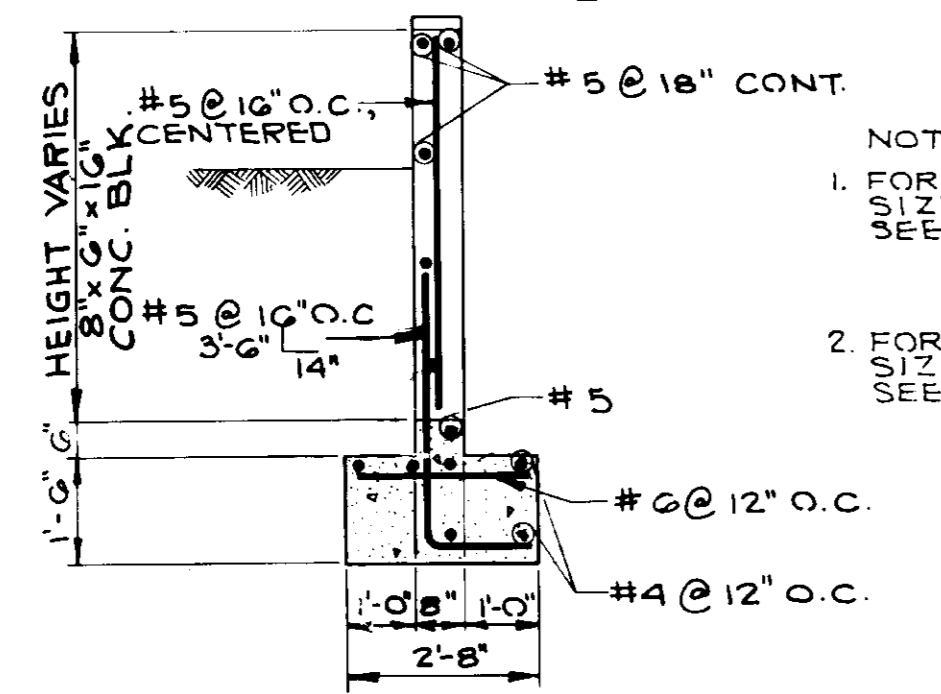
**(N.E. & S.W. CORNER)
TYPICAL DETAIL**
N.T.S.



**(S.E. CORNER)
TYPICAL DETAIL**
N.T.S.

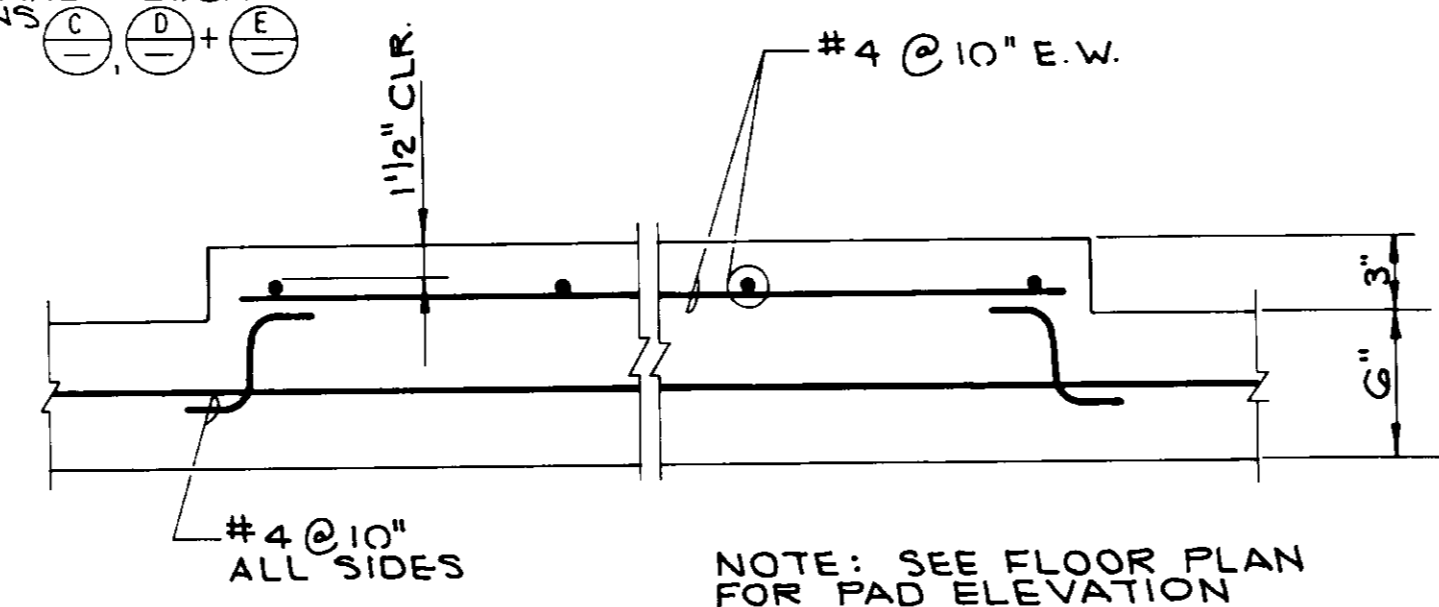


**(N.W. CORNER)
TYPICAL DETAIL**
N.T.S.



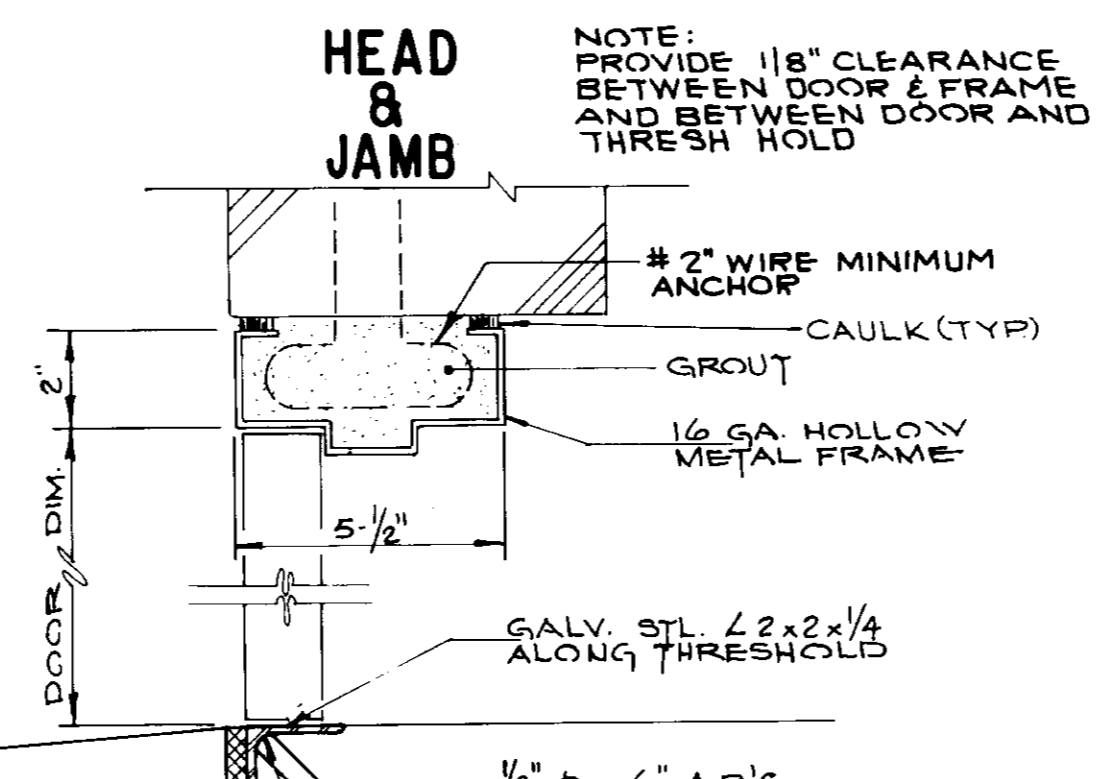
SECTION B
SCALE: 3/8" = 1'-0"

- NOTES:
- FOR WALL HEIGHT AND BLOCK SIZES OF SECTIONS (A) AND (B) SEE SECTION (B)
 - FOR WALL HEIGHT AND BLOCK SIZES OF SECTIONS (C) (D) + (E) SEE SECTION (A)

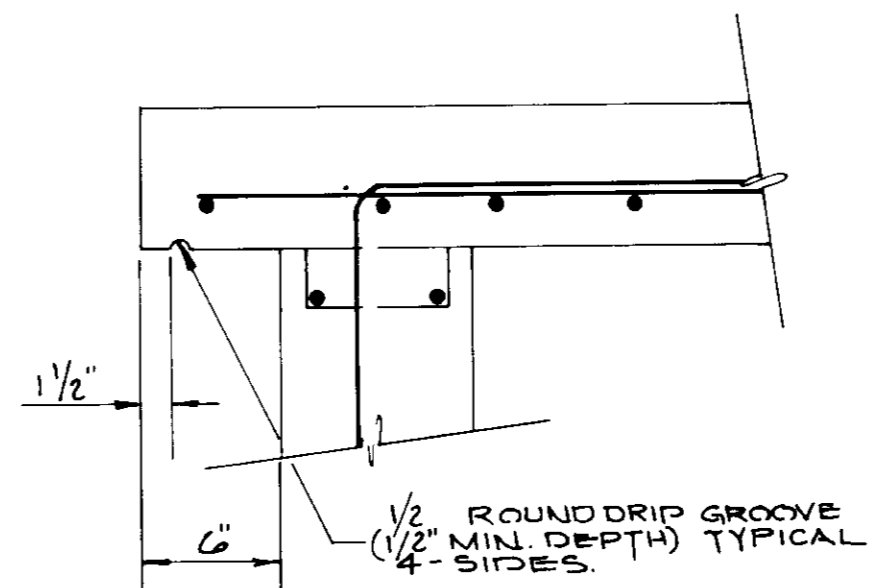


PAD DETAIL 4
SCALE: 1 1/2" = 1'-0"

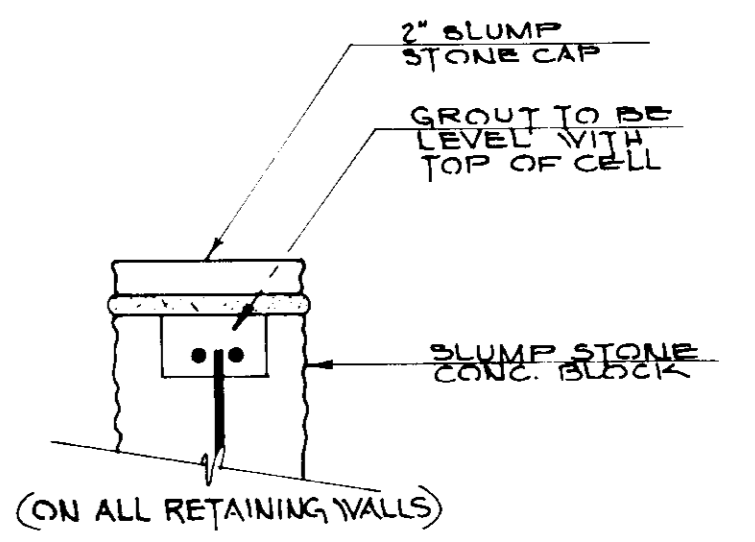
NOTE: PROVIDE 1/8" CLEARANCE BETWEEN DOOR & FRAME AND BETWEEN DOOR AND THRESHOLD



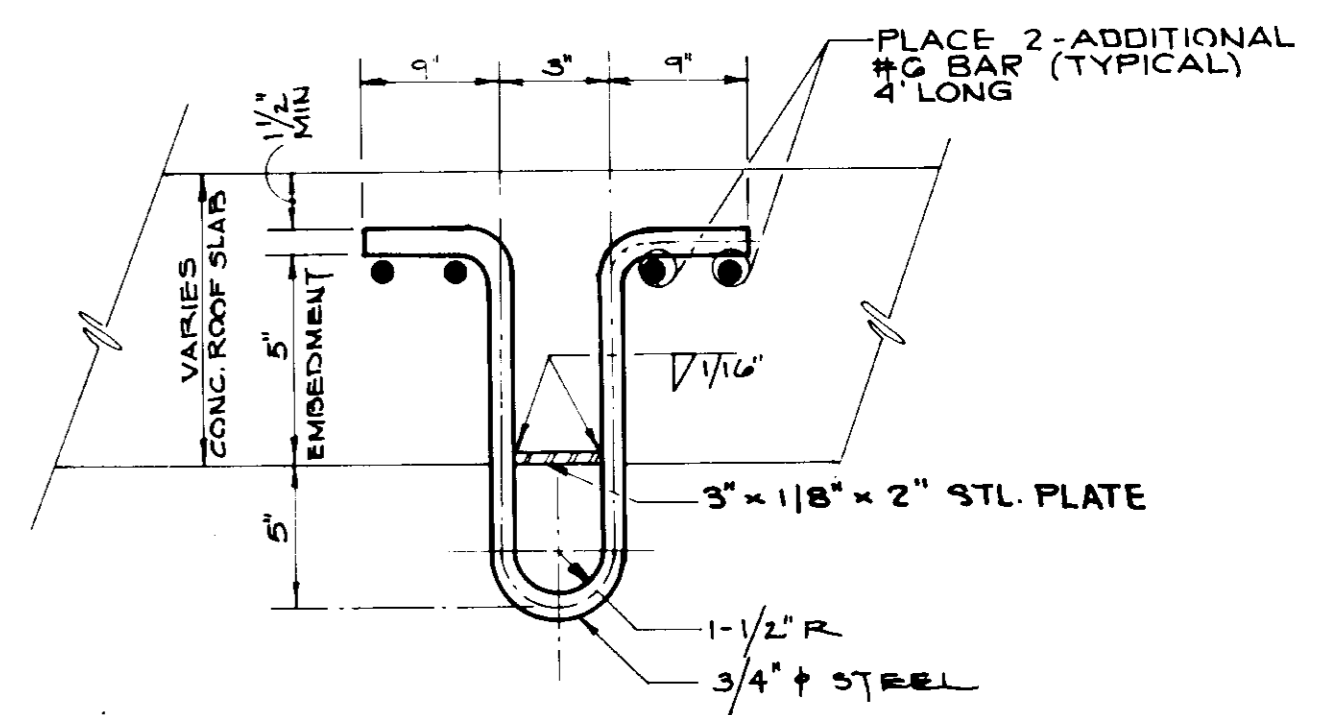
**HEAD & JAMB
DOOR DETAIL**
SCALE: 3" = 1'-0"



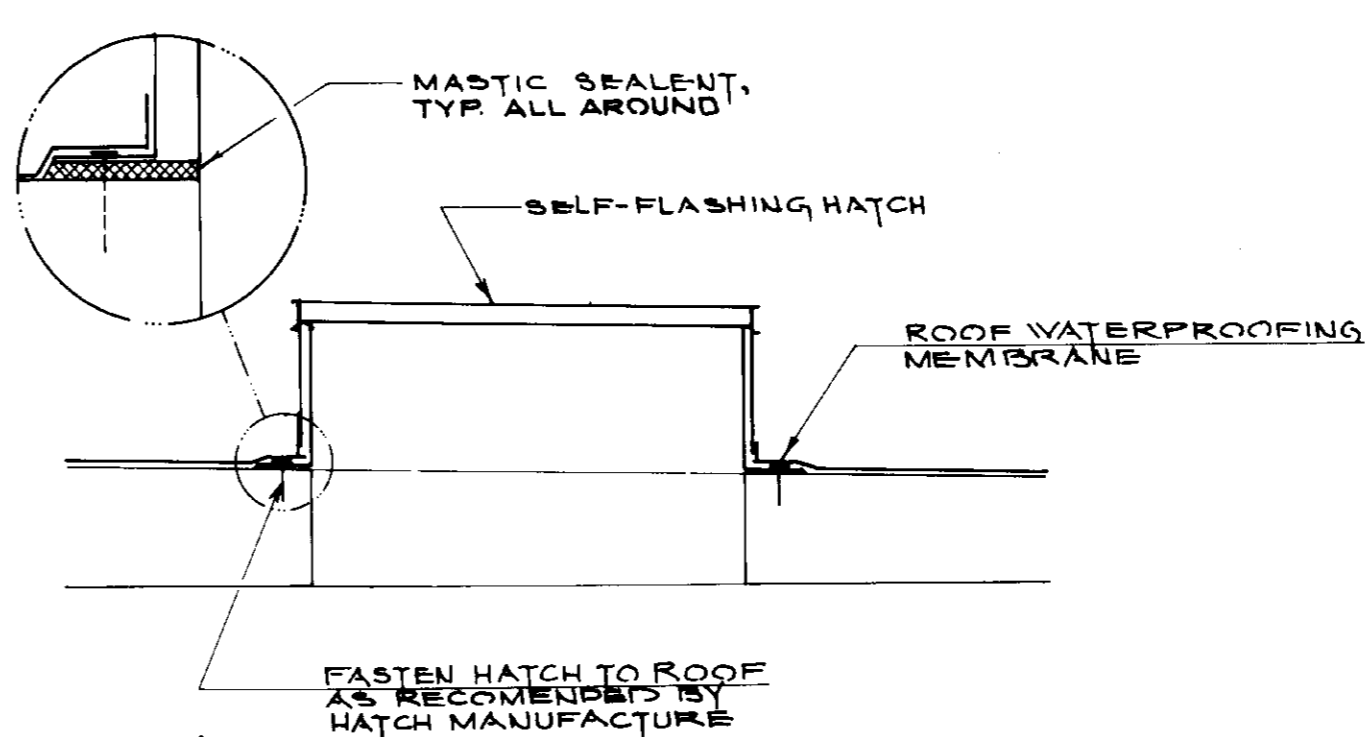
DETAIL 1
SCALE: 1 1/2" = 1'-0"



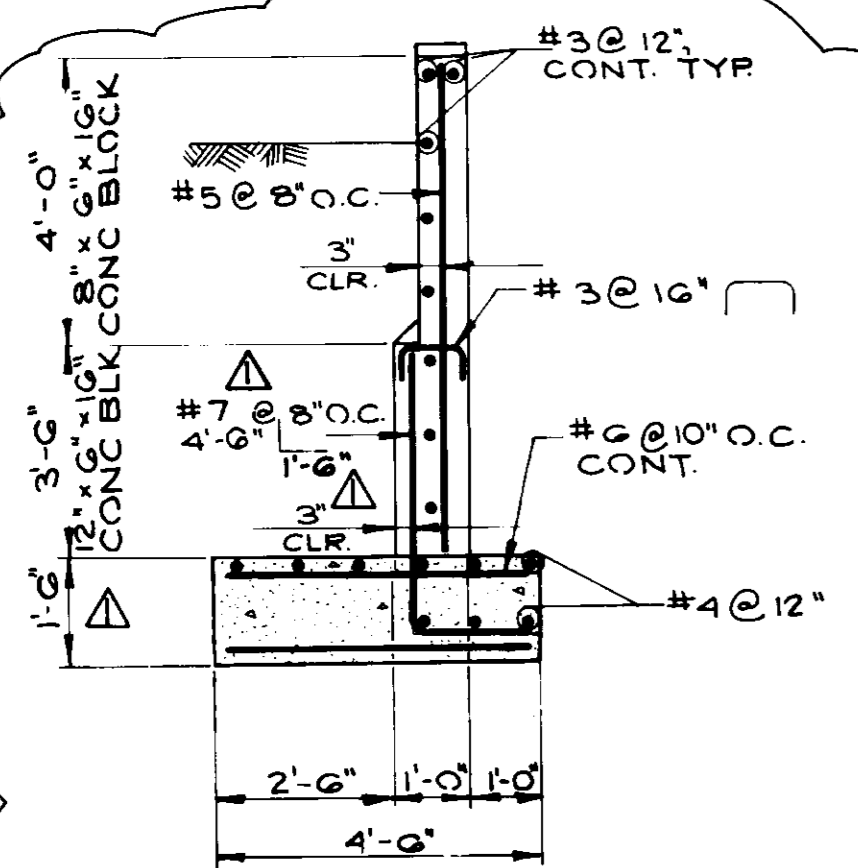
CAP DETAIL 2
N.T.S.



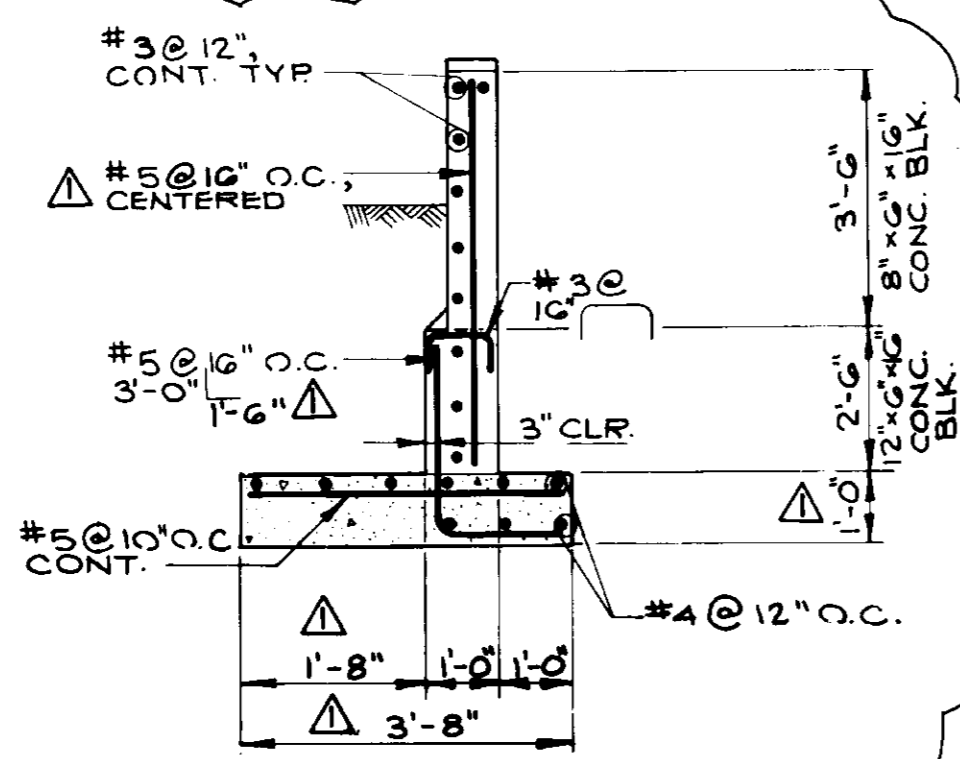
ELEVATION HOISTING & HANGER DETAIL 5
N.T.S.



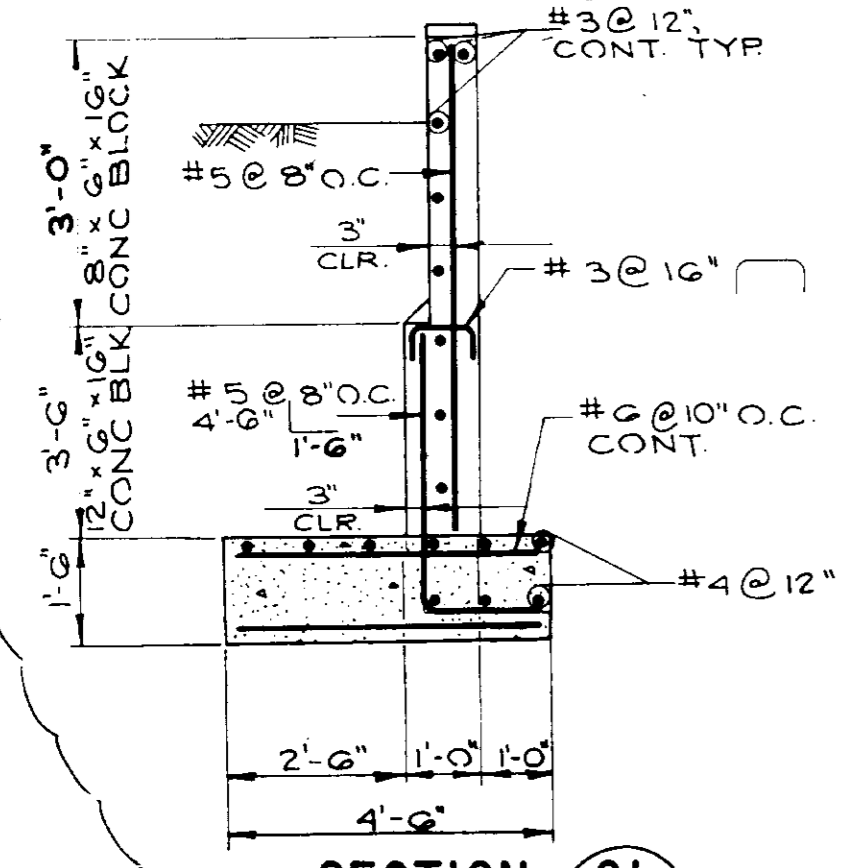
HATCH DETAIL 3
N.T.S.



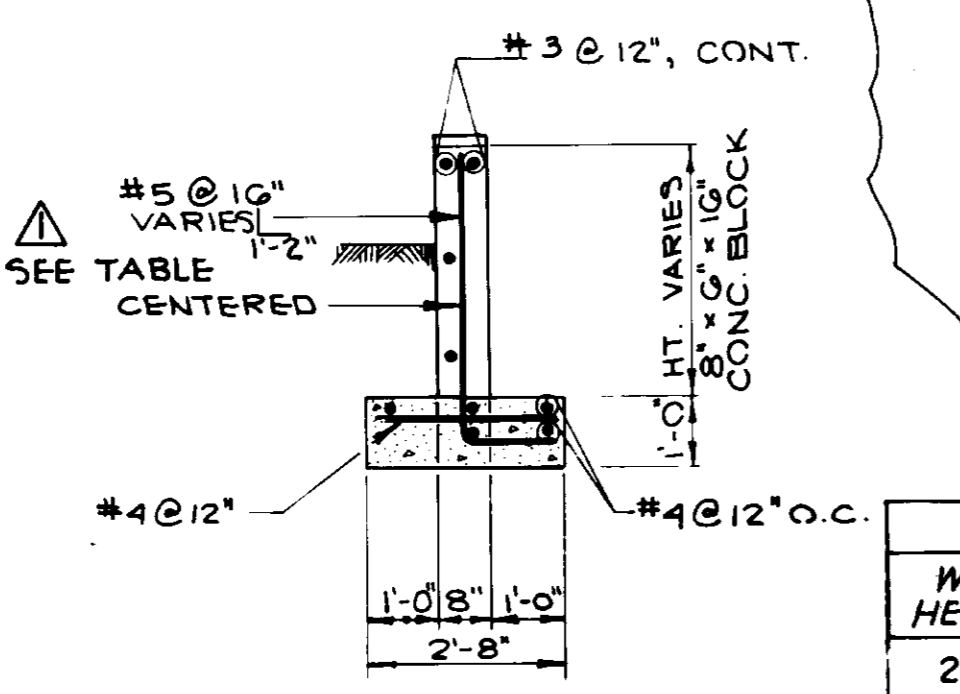
SECTION C
SCALE: 3/8" = 1'-0"



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

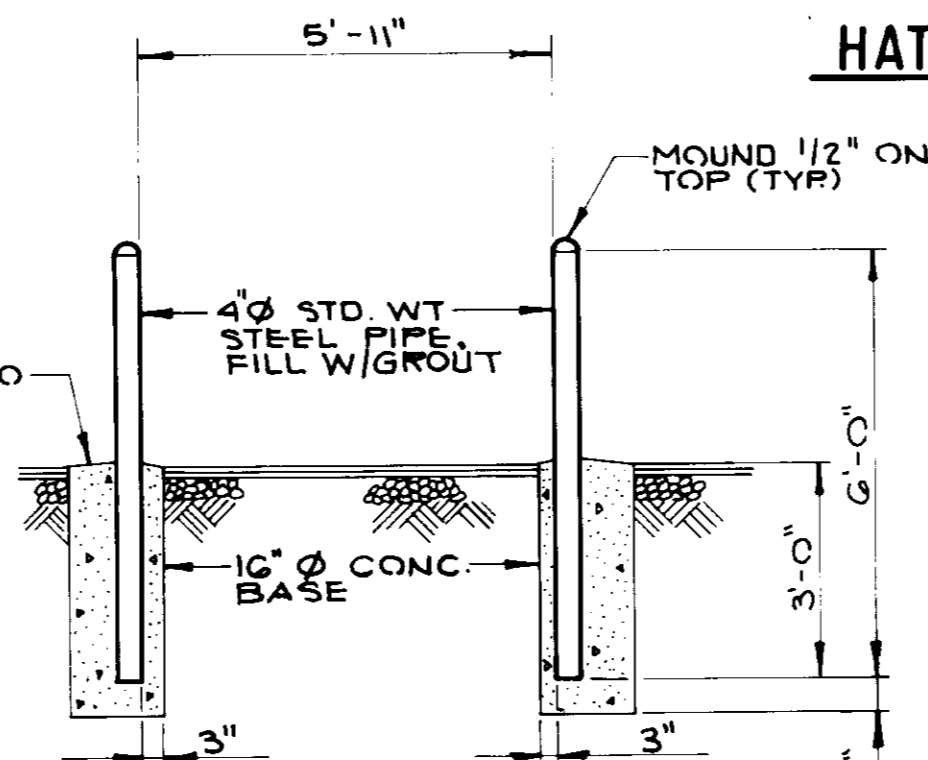


SECTION CI
SCALE: 3/8" = 1'-0"

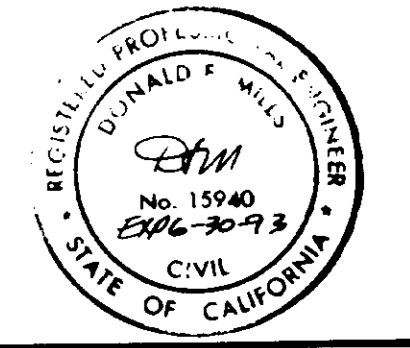


SECTION E
SCALE: 3/8" = 1'-0"

WALL HEIGHT	FOUNDATION WIDTH	BAR
2'-6"	2'-8"	3'-0" 1'-2"
3'-6"	2'-8"	4'-0" 1'-2"
5'-0"	2'-8"	5'-6" 1'-2"



GUARD POST DETAIL 6
SCALE: 3/8" = 1'-0"



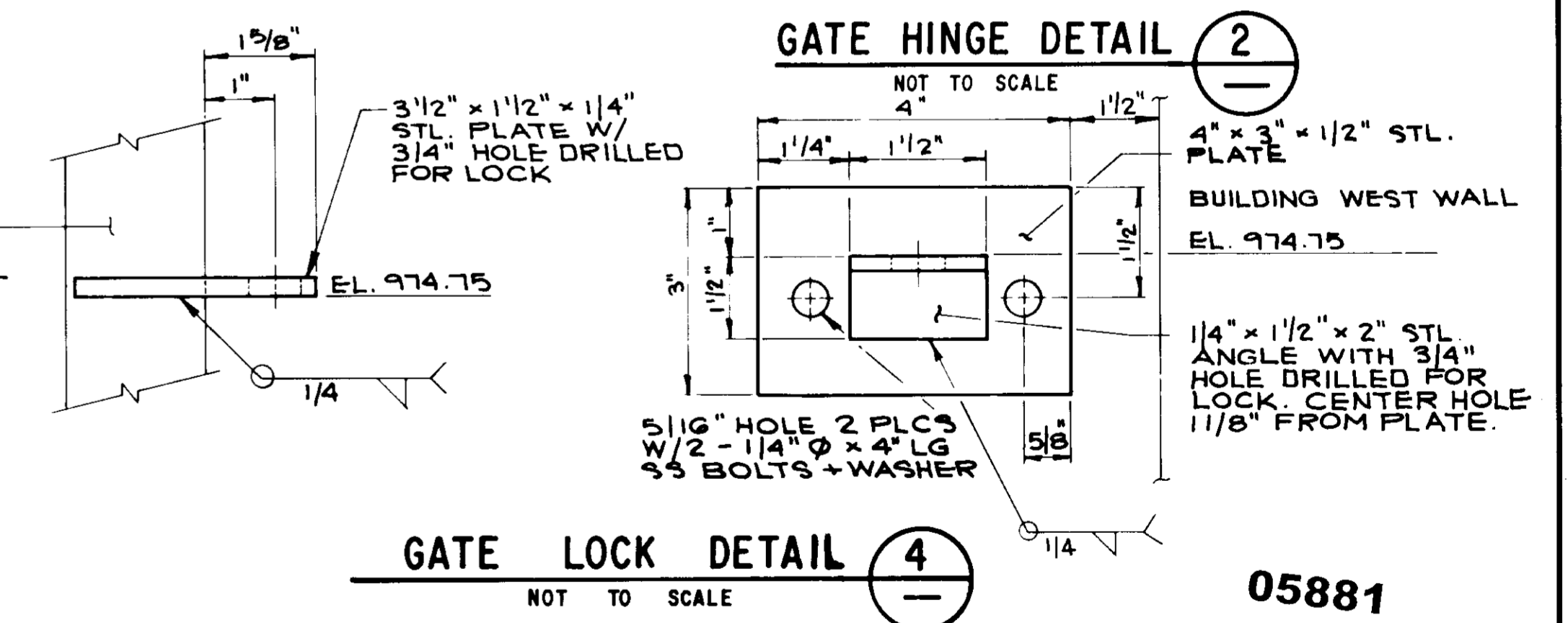
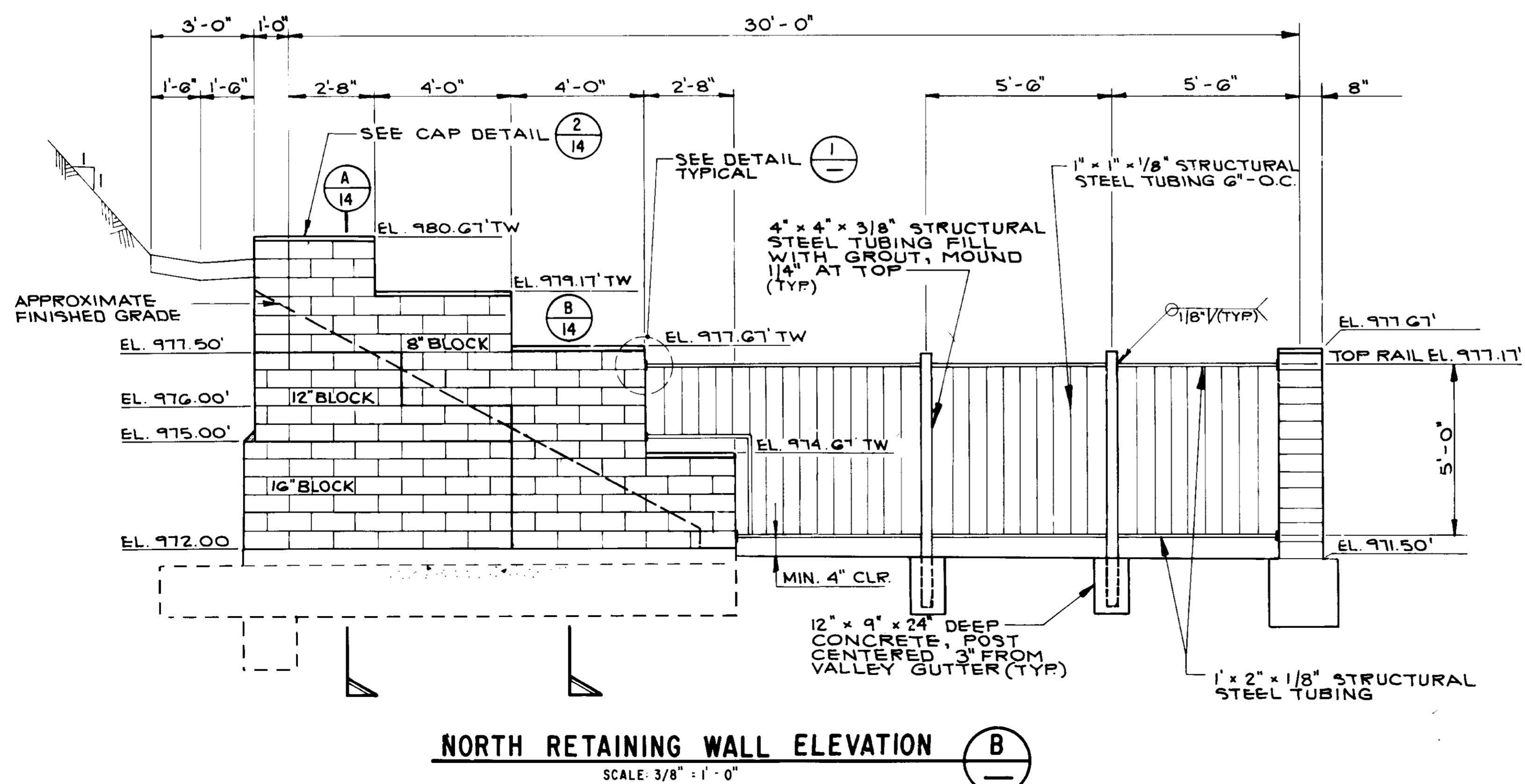
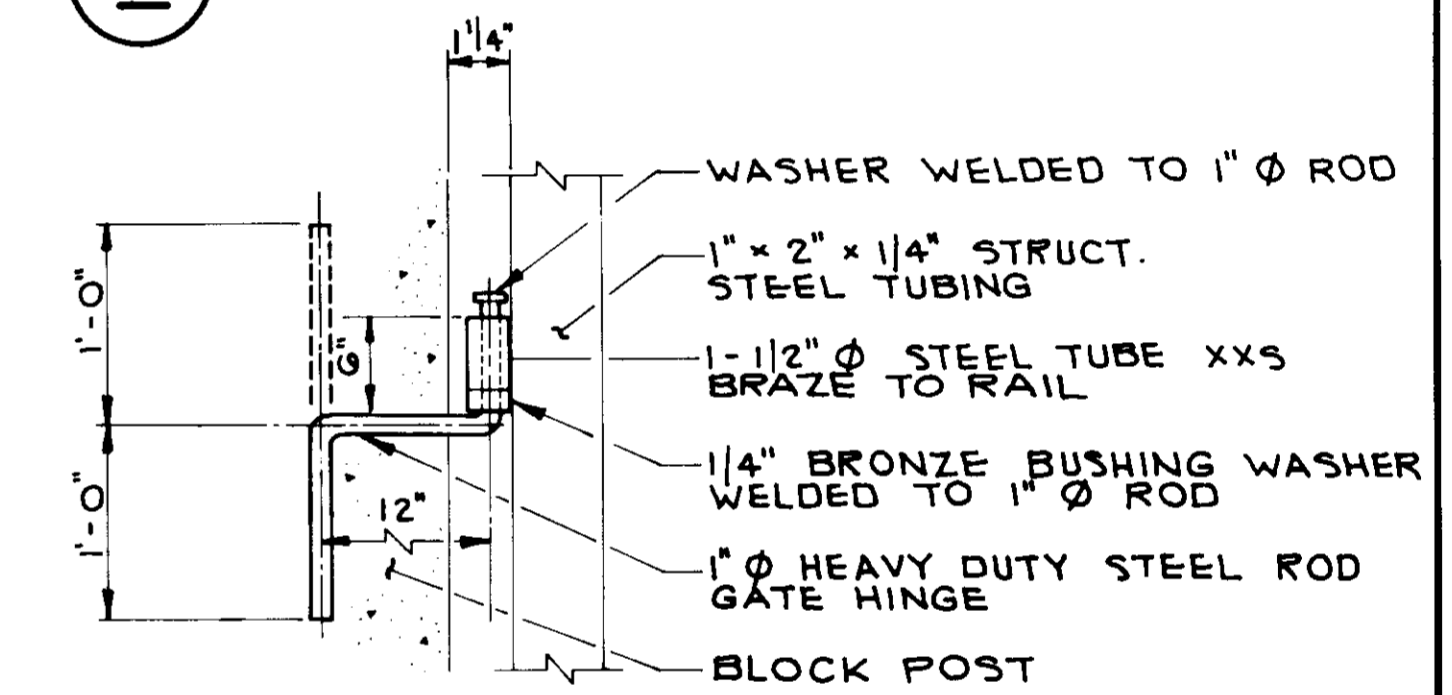
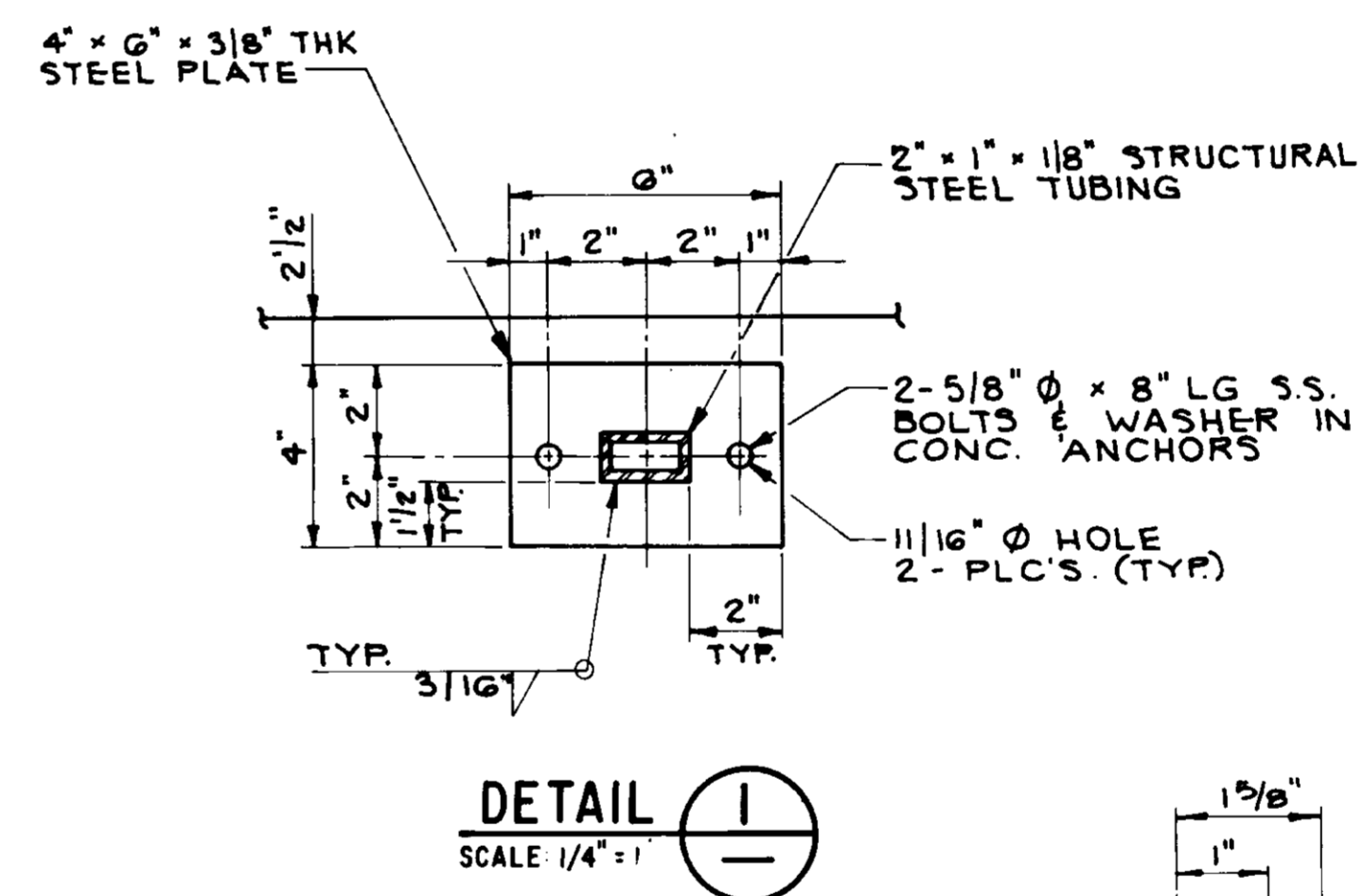
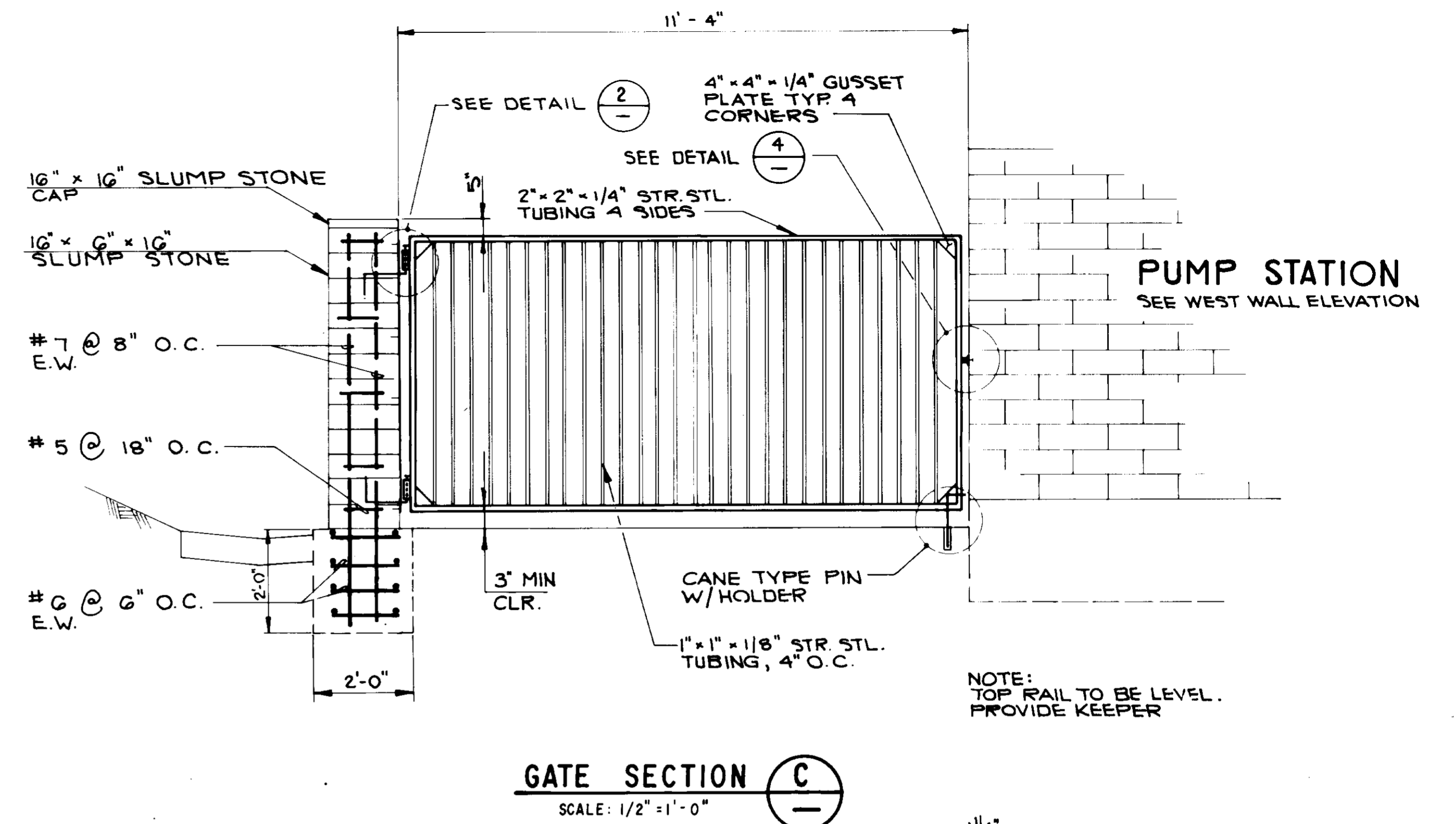
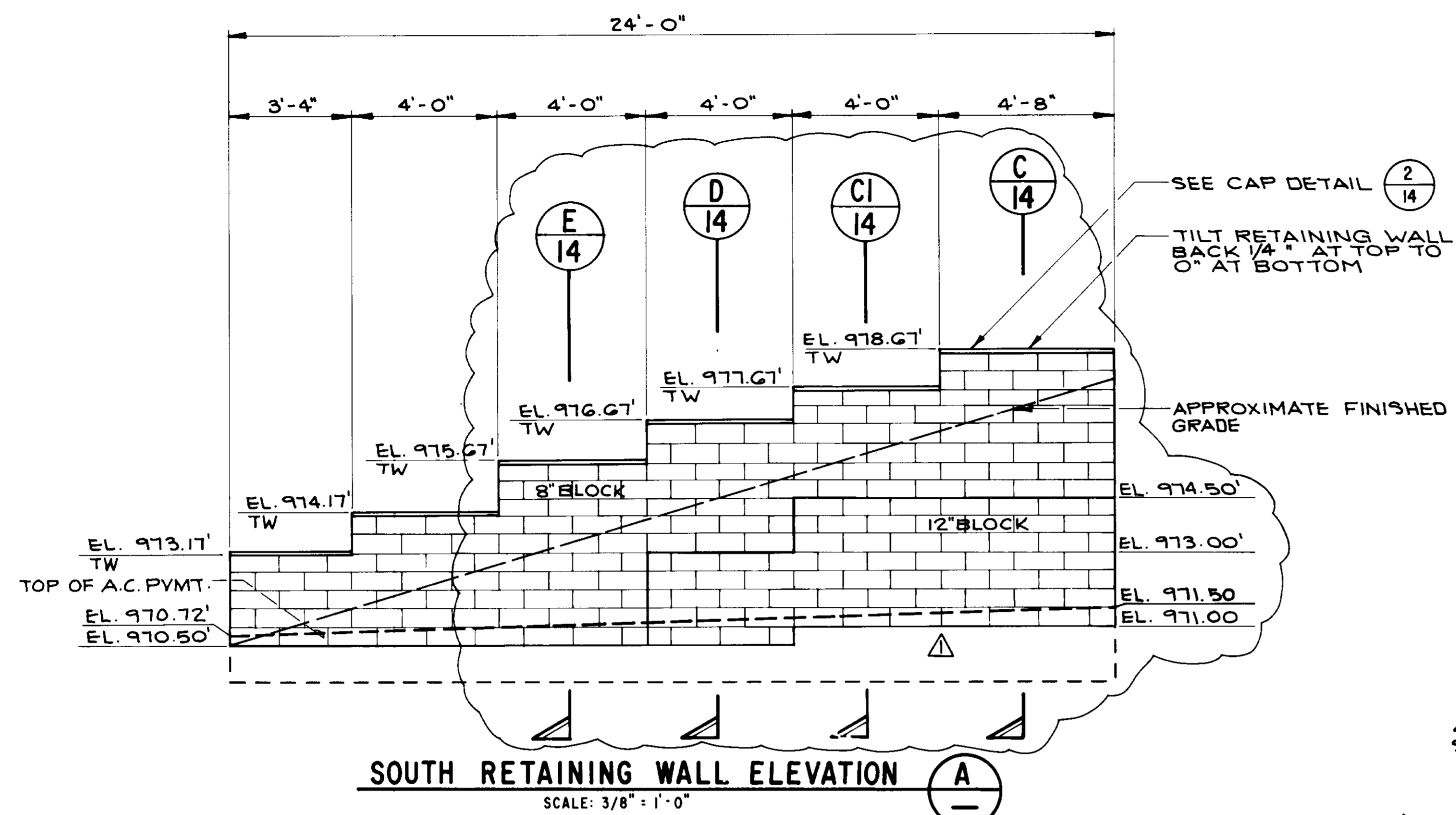
05880

RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES IDENTIFIED IN THE CONTRACT IDENTIFICATION NUMBER. THIS DRAWING HAS BEEN REVIEWED FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR AND THE CONTRACTOR'S AGENT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED.
DESIGNED BY: JAV, AGENCY: LVMW, DATE: 1/4/94
DRAWN BY: A.S.P., AGENCY: REC, DATE: 1/14/93
PROJECT ENGR.: PAB, AGENCY: BEL, DATE: 1/14/93

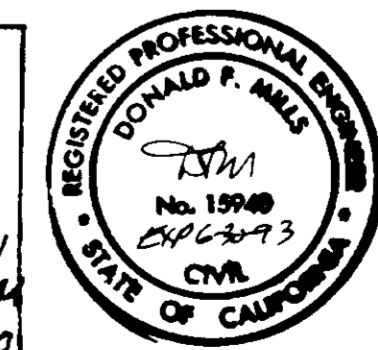
LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
STRUCTURAL DETAILS

BOYLE ENGINEERING CORPORATION
consulting engineers & architects
VENTURA, CA

REV	DATE	DESCRIPTION	APP	M.D./M.B.	A.S.P.	C.A. NO.	DRAWING NO.	SHEET NO.
1	8/19/93	ISSUED FOR CONSTRUCTION				VT-L02-163-03	5-225	14



RECORD DRAWING
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CONTRACT: JAV, DATE: 11/14
DRAWN BY: A.S.P. AGENCY BEC, DATE: 12/10/00
PROJ. ENGR: PAB, AGENCY BEC, DATE: 1/14/01

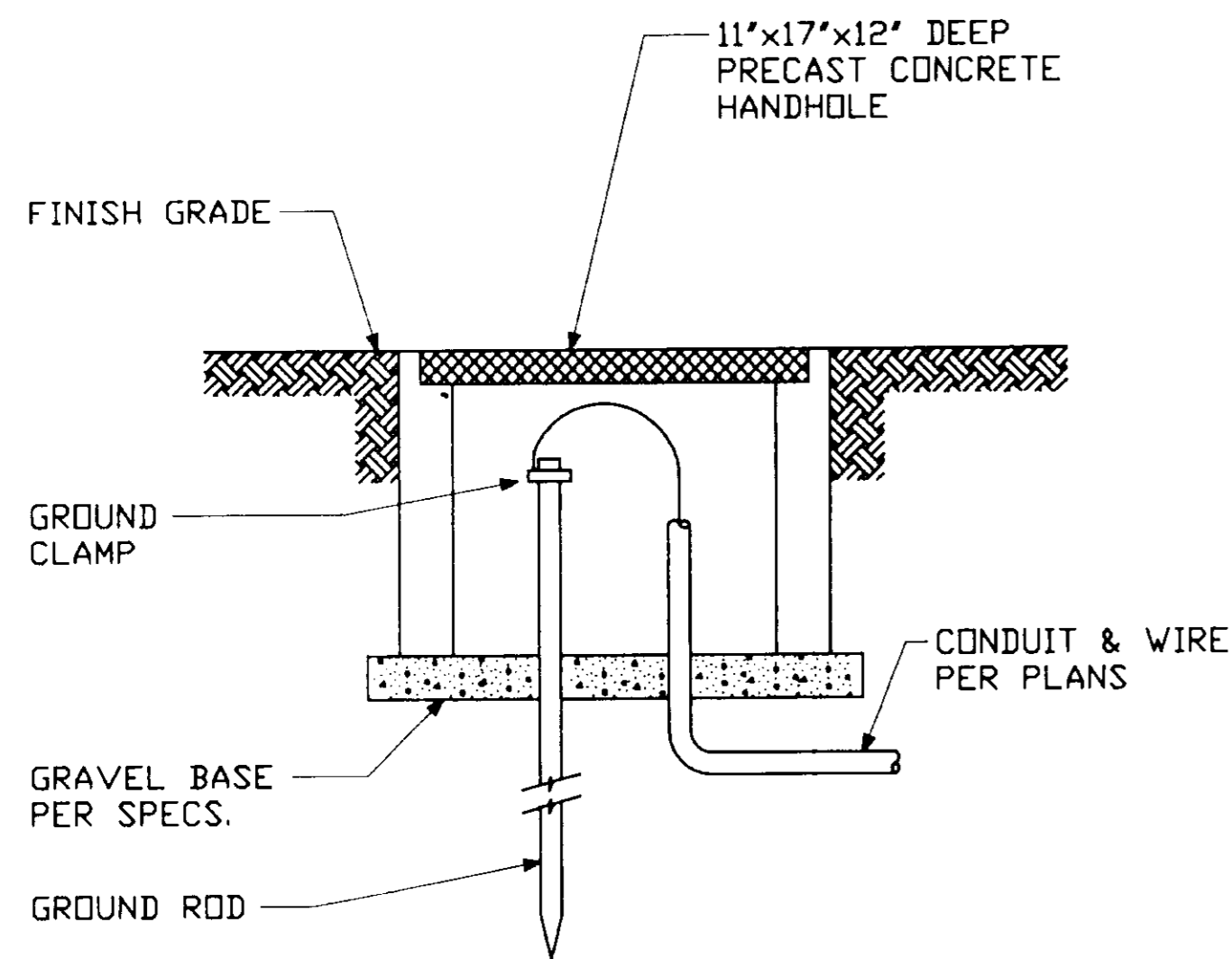


LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
RETAINING WALLS, FENCE, AND GATE DETAILS

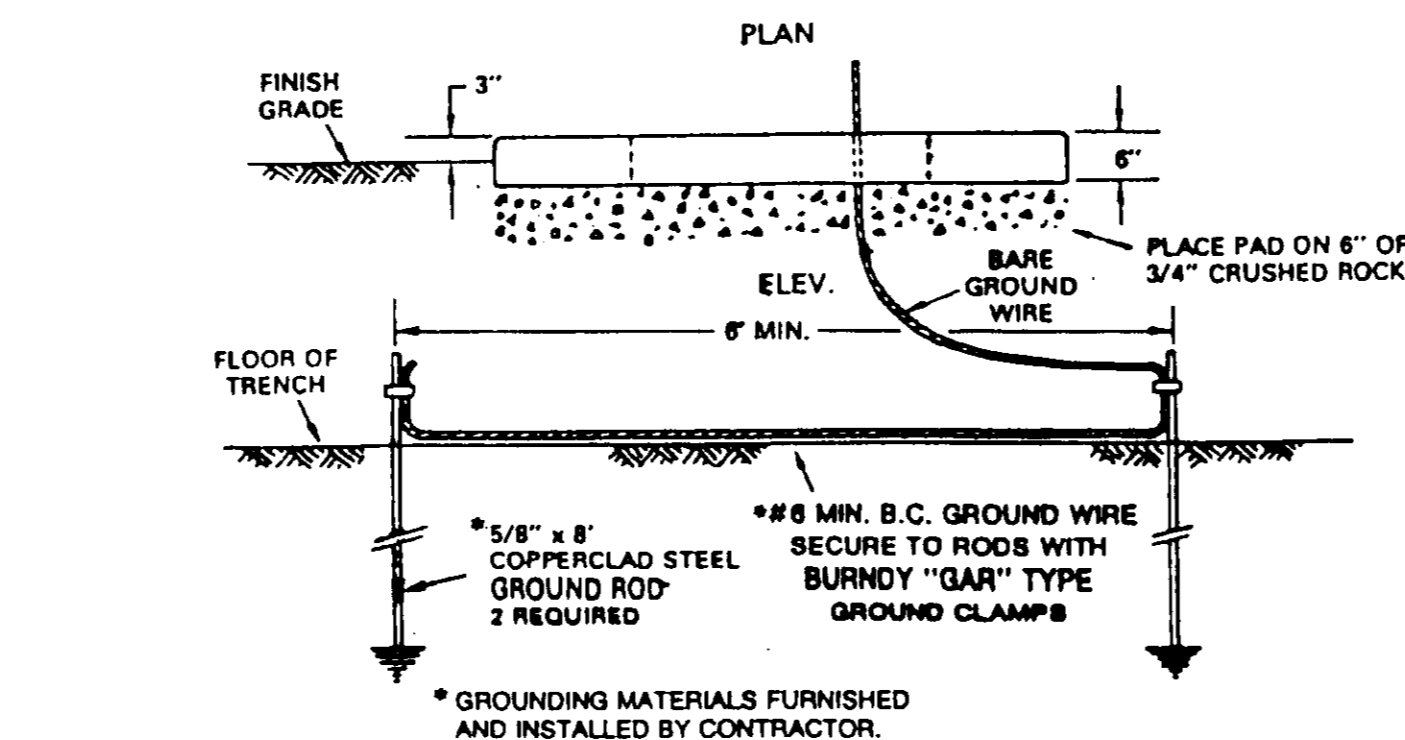
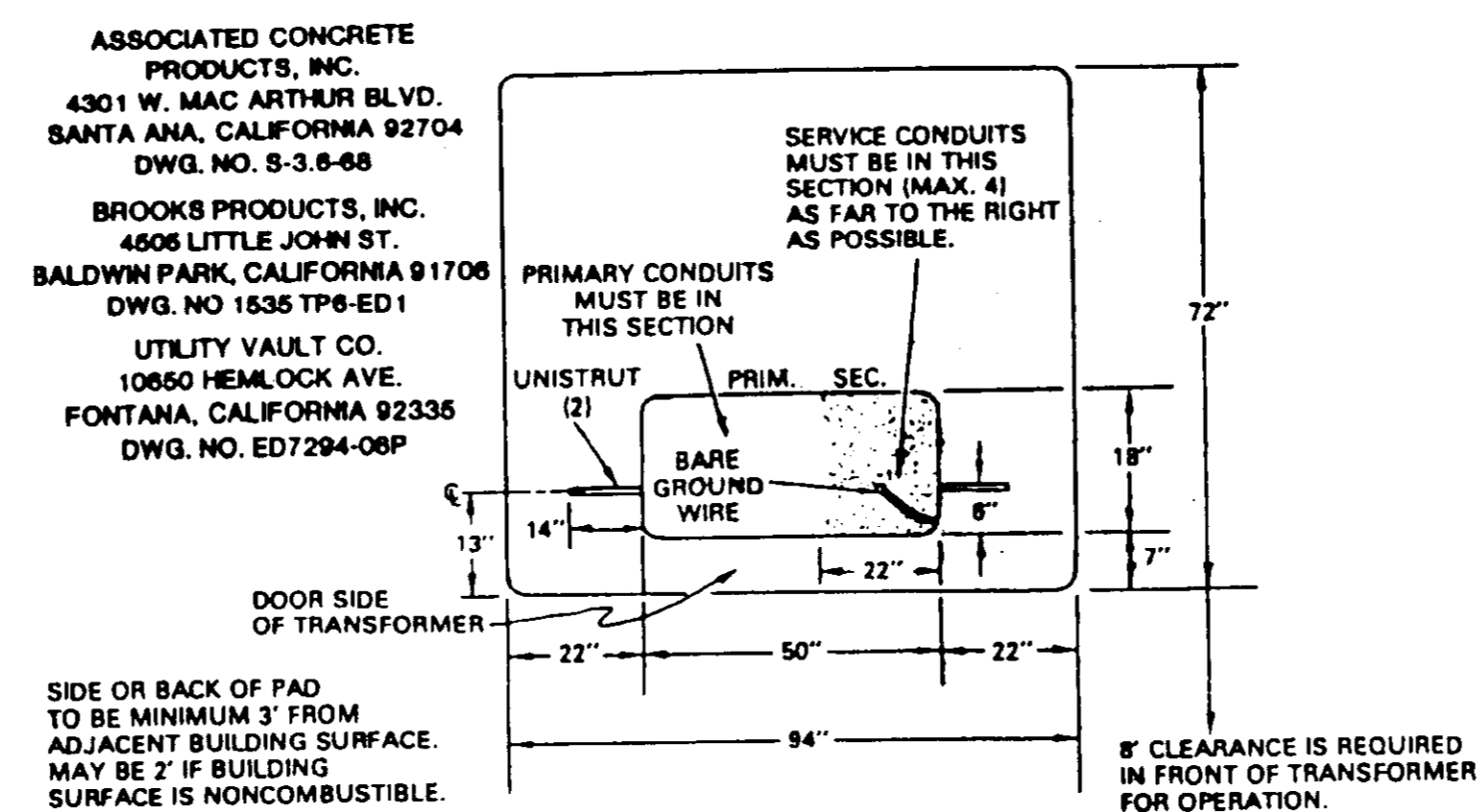
BOYLE ENGINEERING CORPORATION
consulting engineers & architects
VENTURA, CA

DESIGN	DRAWN	CHECKED	C.A. NO.	DRAWING NO.	SHEET NO.
M.D./M.E.B.	D.P.J.	M.E.B.	4891	15	15
REV.	DATE	DESCRIPTION	APP.		
1	8/8/91	RETAINING WALL FOUNDATION	M.E.B.		
2	5/21/91	ISSUED FOR CONSTRUCTION	M.E.B.		

05881



GROUND WELL DETAIL (1) E-1 E-3
N.T.S.



REF. ESR 254 RISER BENDS
US 170 USGS 500 PADMOUNT REQ.
UGS 504 UGS 701 GROUND RODS
14-168-43 NEW 1/85

CONCRETE PAD DETAIL FOR S.C.E. PAD MTD. XFMR. (3) E-1 E-3
N.T.S.
1 PROVIDE PER SCE REQUIREMENTS.

ELECTRICAL SYMBOLS - SINGLE LINE DIAGRAM	
(M)	UTILITY METERING
⊞	POWER TRANSFORMER
30A 3P	CIRCUIT BREAKER, TRIP RATING AND NUMBER OF POLES INDICATED
⊥	GROUND
⊞	OVERLOADS
SS	SOLID STATE STARTER
⊞	MOTOR, HORSEPOWER INDICATED
225A MCP	MOTOR CIRCUIT PROTECTOR
⊞	CURRENT TRANSFORMER
⊞	SURGE ARRESTER
PFR	PHASE FAILURE RELAY

ELECTRICAL SYMBOLS - SCHEMATIC DIAGRAMS		
NORMALLY OPEN	NORMALLY CLOSED	DEVICE
⊥	⊥	CONTACT
⊞	⊞	TIMED CONTACT CONTACT ACTION RETARDED ON ENERGIZATION
⊞	⊞	PUSH BUTTON SINGLE CIRCUIT MOMENTARY CONTACT
⊞	⊞	PRESSURE OR VACUUM SWITCH
⊞	⊞	LIMIT SWITCH
⊞	⊞	TEMPERATURE SWITCH
⊞	⊞	MOTOR OVERLOAD HEATERS
⊞	⊞	HDA = HAND-OFF-AUTO SELECTOR SWITCH
(R) (MX)		RELAY
(A)		PILOT LIGHT R= RED, W= WHITE, G= GREEN
(TD)		TIME DELAY RELAY
(SV)		SOLENOID CONTROL VALVE
(ETM)		ELAPSED TIME METER
⊞		FUSE
⊞		CONTROL POWER TRANSFORMER
⊞		GROUND
⊞		WIRING IN MOTOR STARTER
⊞		FIELD WIRING
⊞		WIRE TERMINAL IN MTR. STARTER

CONDUIT FILL TABLE				
MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING				
CONDUCTOR SIZE (AWG)	CONDUIT TRADE SIZE (INCHES)			
	1/2	3/4	1	1 1/4
14	6	10	16	
12	4	8	13	
10	4	6	11	
8	3	5		

ELECTRICAL SYMBOLS - PLANS			
CLG	WALL	FLR	SYMBOL DESCRIPTION
○	○		INCANDESCENT OR HID FIXTURE
○	○		FLUORESCENT FIXTURE - CIRCLE INDICATES OUTLET
○	○		FIXTURE CONNECTED TO CKT #1, SWITCH 'b'
⊞	⊞		DUPLEX RECEPTACLE *
⊞	⊞		THERMOSTAT OUTLET + 66' UDN
⊞	⊞		JUNCTION BOX
⊞	⊞		SINGLE POLE SWITCH **
⊞	⊞		THREE WAY SWITCH **
⊞	⊞		SWITCH CONTROLS CIRCUIT 'a' **
⊞	⊞		TWO POLE SWITCH **
---	---	---	CONDUIT IN SLAB OR UNDERGROUND
---	---	---	CONDUIT EXPOSED
///	///	///	QUANTITY #12 CURRENT CARRYING CONDUCTORS. U.D.N. ***
---	---	---	CONDUIT CAP, W/MARKER AT GRADE
---	---	---	GROUNDING CONDUCTOR
---	---	---	CONDUIT BENDS TOWARD OBSERVER
---	---	---	CONDUIT BENDS AWAY FROM OBSERVER
⊞	⊞	⊞	FLEXIBLE CONNECTION
⊞	⊞	⊞	MOTOR CONNECTION
⊞	⊞	⊞	GROUND ROD, 3/4" x 10'-0" COPPERCLAD
⊞	⊞	⊞	INDICATES HEIGHT FROM FINISHED FLOOR GRADE TO CENTERLINE OF DEVICE
⊞	⊞	⊞	+ 12' UDN
⊞	⊞	⊞	+ 48' UDN
⊞	⊞	⊞	SEE CONDUIT FILL TABLE FOR CONDUIT SIZE
⊞	⊞	⊞	FIXTURE TYPE 'A', 2-40 WATTS
⊞	⊞	⊞	TELEPHONE OUTLET
⊞	⊞	⊞	RECEPTACLE FOR PORTABLE GENERATOR
⊞	⊞	⊞	PANELBOARD
⊞	⊞	⊞	SEE NOTE INDICATED
⊞	⊞	⊞	SOLENOID VALVE

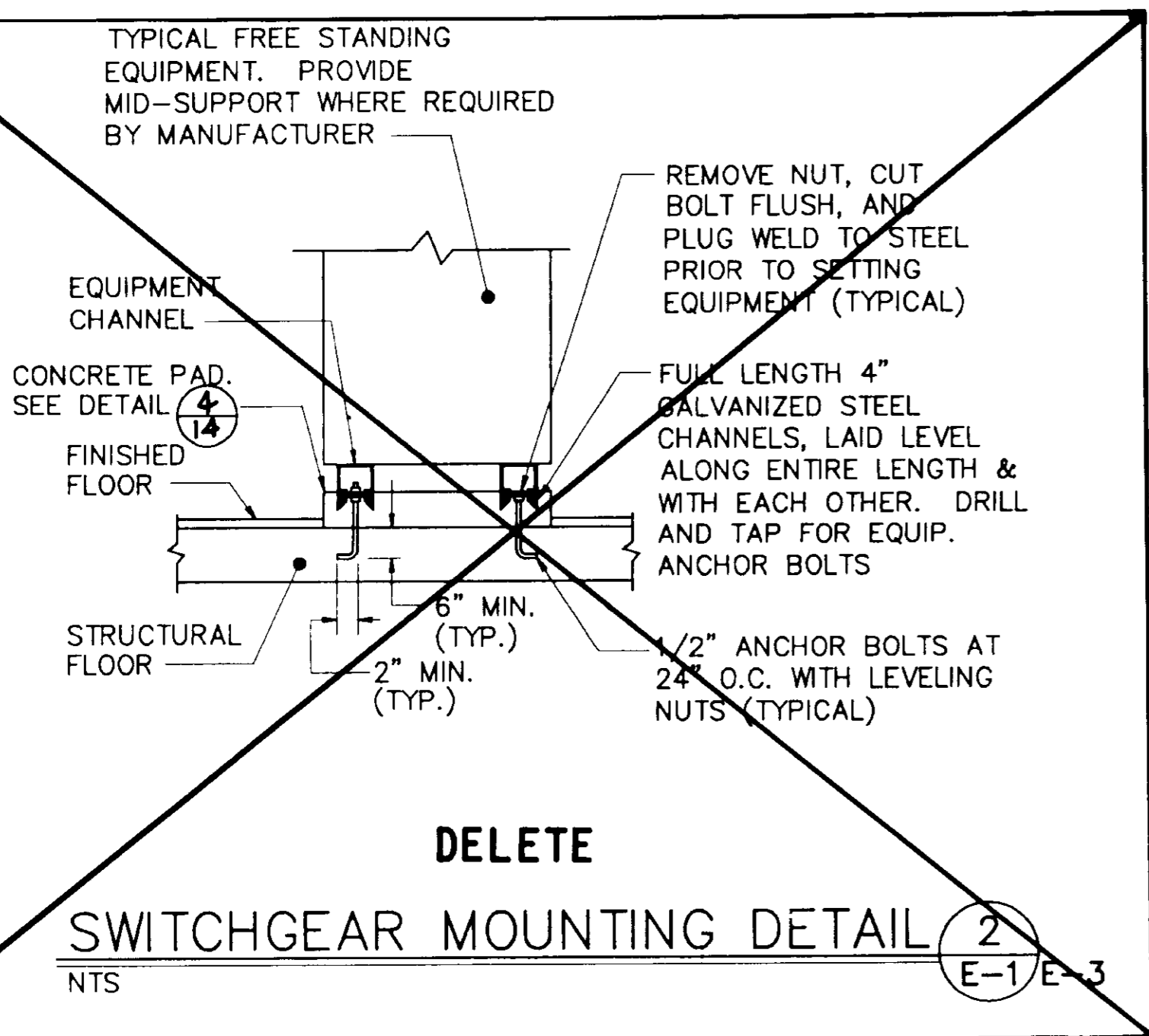
UTILITY COMPANIES	
ELECTRIC	TELEPHONE
SOUTHERN CALIFORNIA EDISON 3589 FOOTHILL DRIVE THOUSAND OAKS, CALIF. 91361	PACIFIC BELL 2130 WARD AVENUE RM. 133 SIMI VALLEY, CALIF. 93065
CONTACT: BOB BRANDT TELE. : (805)494-7065	CONTACT: JIM ROBBE TELE. : (805)583-6578



05883 E-1

LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
SYMBOLS AND DETAILS
BOYLE ENGINEERING CORPORATION
consulting engineers / architects
VENTURA, CA.

DESIGN	DRAWN	CHECKED	C.A. NO.	DRAWING NO.	SHEET NO.
R.T.	D.K.	A.J.R.	VT-102-163-03	9-225	17



SWITCHGEAR MOUNTING DETAIL (2) E-1 E-3
N.T.S.

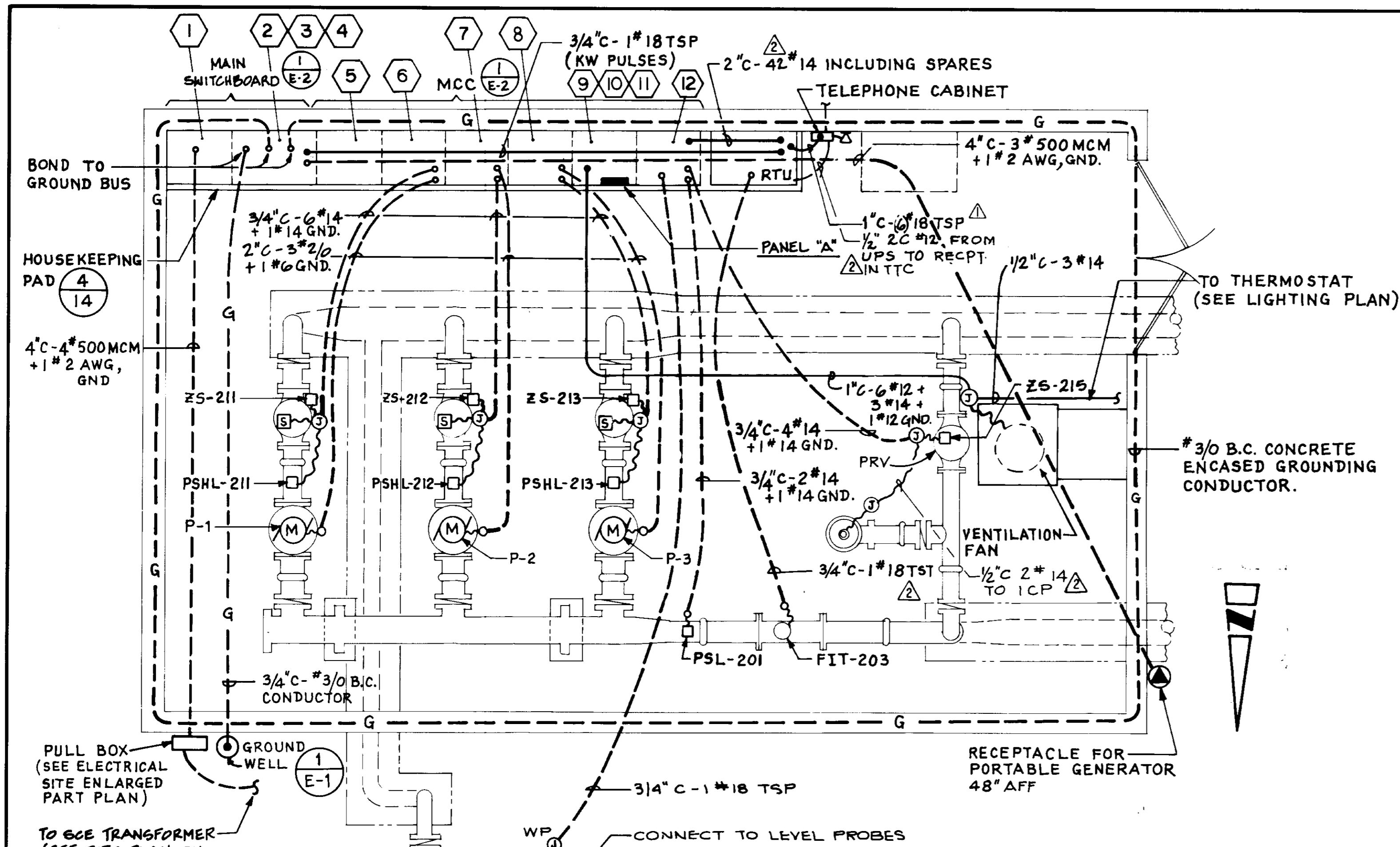
LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	MOUNTING	VOLTS	WATTS	LAMPS
(A) 2-40	FLUORESCENT FIXTURE, CLEAR PRISMATIC LENS, STAINLESS STEEL LATCHES, BAKED WHITE EPOXY FINISH, TOTALLY ENCLOSED AND GASKETED FIXTURE. LOW HEAT BALLAST. PRUDENTIAL CAT.#P-1652-48 RS-PRA-EP.	CEILING PENDANT	120V	100	FLUOR. COOL WHITE
(B) 35	HIGH PRESSURE SODIUM, DIE-CAST ALUMINUM HOUSING, W/ACRYLIC BRONZE PAINT, DEEP SHIELDED DOWNLIGHT, U.L LISTED FOR WET LOCATIONS. RUUD CAT. #E8503-1-H-05 OR EQUAL	WALL	120V	50	H.P.S.

ABBREVIATIONS

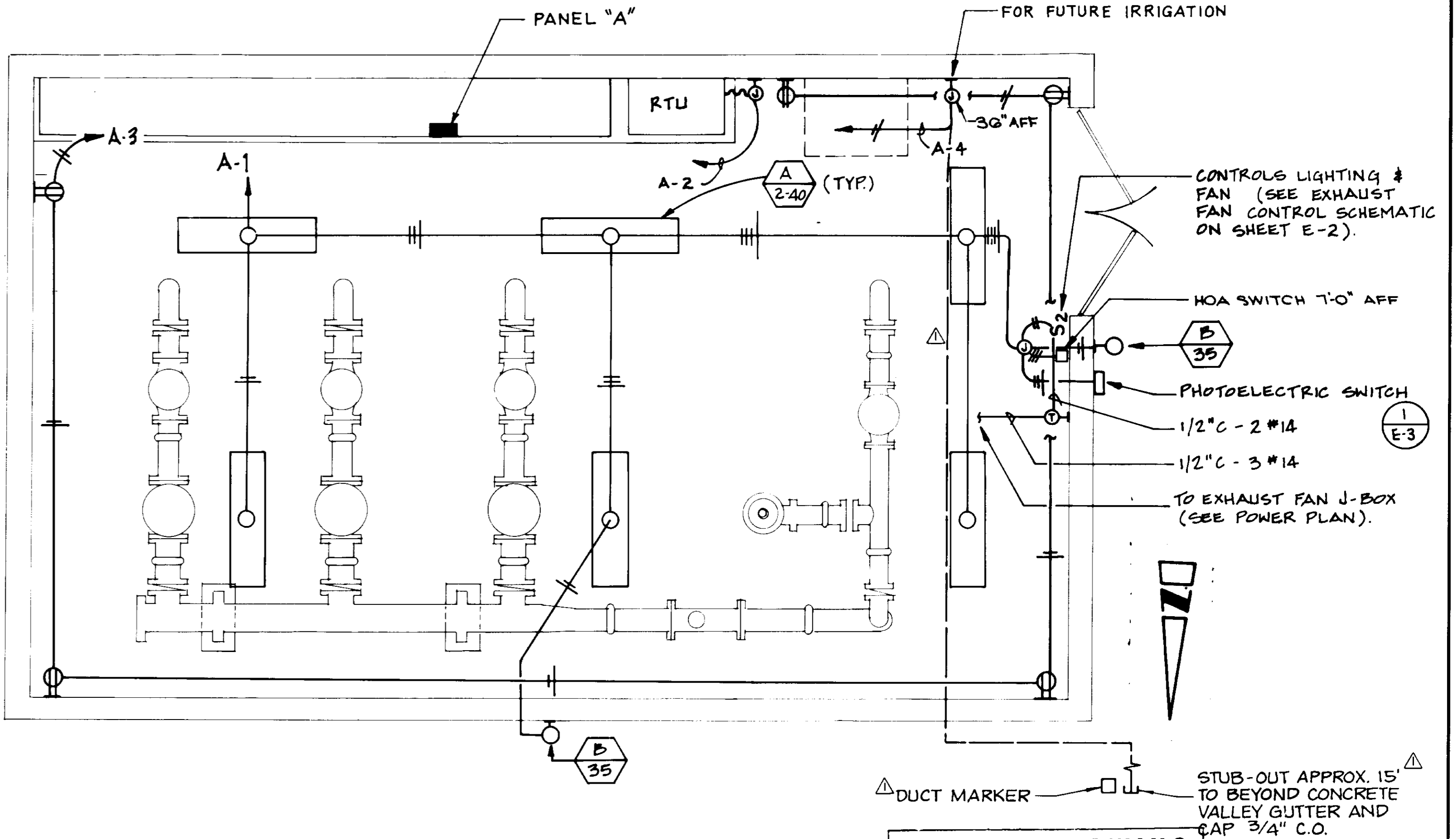
RTU	REMOTE TELEMETRY UNIT
AFF	ABOVE FINISHED FLOOR
SW/B	SWITCHBOARD
UDN	UNLESS OTHERWISE NOTED
GND	GROUND
C.O.	CONDUIT ONLY
CAT	CATALOG
TSP	TWISTED SHIELDED PAIR
C	CONDUIT
BC	BARE COPPER
PSL	PRESSURE SWITCH, LOW
PSHL	PRESSURE SWITCH, HIGH-LOW
CT	CURRENT TRANSFORMER
MCC	MOTOR CONTROL CENTER
GFI	GROUND FAULT CIRCUIT INTERRUPTER
PRV	PRESSURE REDUCING VALVE
WP	WEATHER PROOF

RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES CONSTRUCTION UNDER THE CONTRACT IDENTIFIED IN THIS DRAWING. HAS BEEN REVIEWED AND FOUND TO BE IN ACCORDANCE WITH THE CONTRACT AND THE RECORD DRAWING.
DATE: 11/14/93
DRAWN BY: A.S.P. AGENCY: B.E.C. DATE: 12/27/93
PROJ. ENGR: PAB AGENCY: B.E.C. DATE: 1/28/94

5/27/94	ISSUED FOR CONSTRUCTION	MEB
REV.	DATE	DESCRIPTION

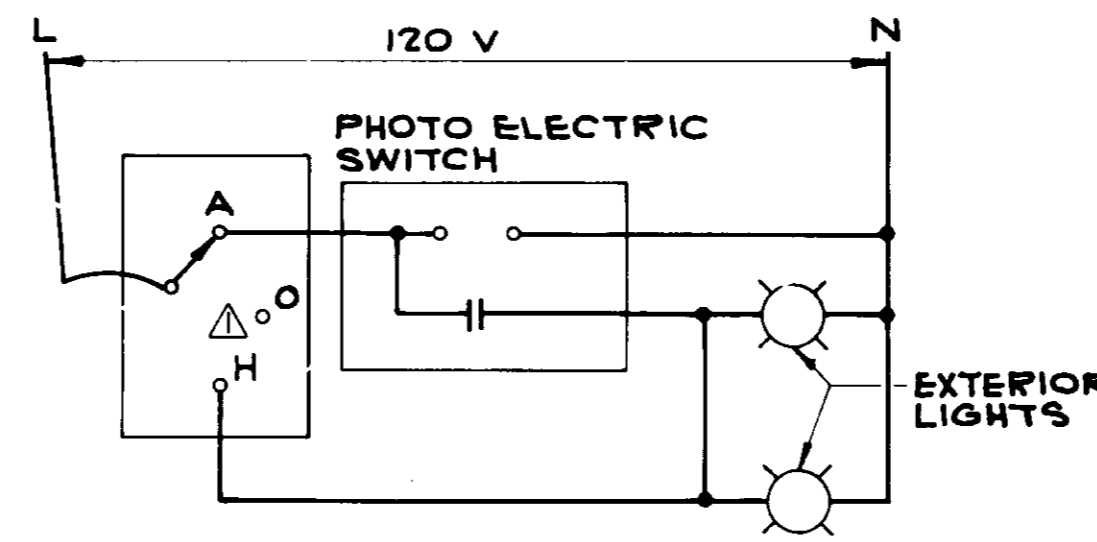


POWER PLAN
SCALE: 3/8" = 1'-0"



LIGHTING PLAN
SCALE: 3/8" = 1'-0"

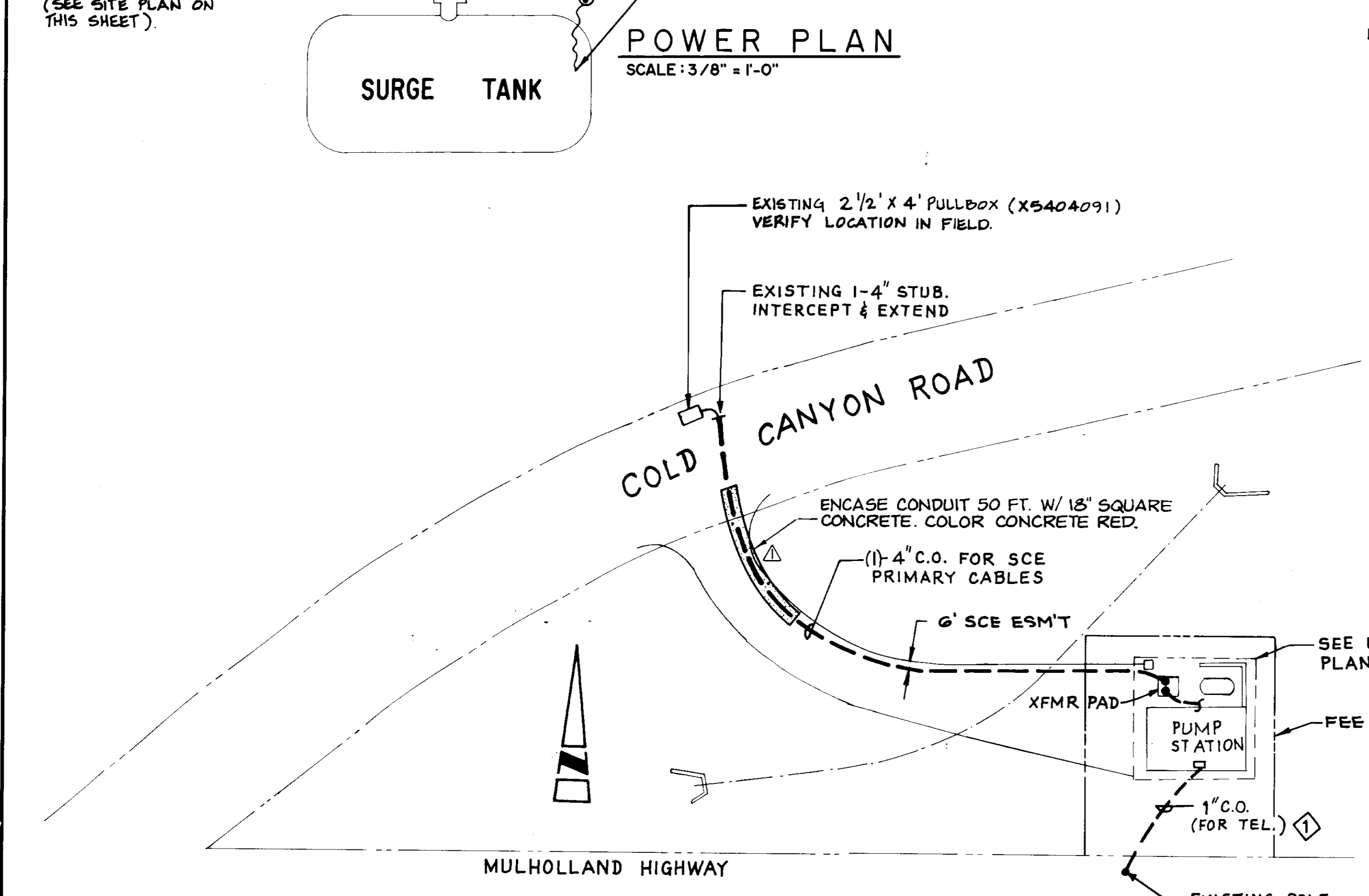
RECORD DRAWING
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CONST. INSP. J.A.V. AGE CYLIMND DATE 11/19/94
DRAFTED BY A.S.P. AGENCY BEC DATE 12/2/93
PROJ. ENGR. P.A.P. AGENCY BEC DATE 12/2/93



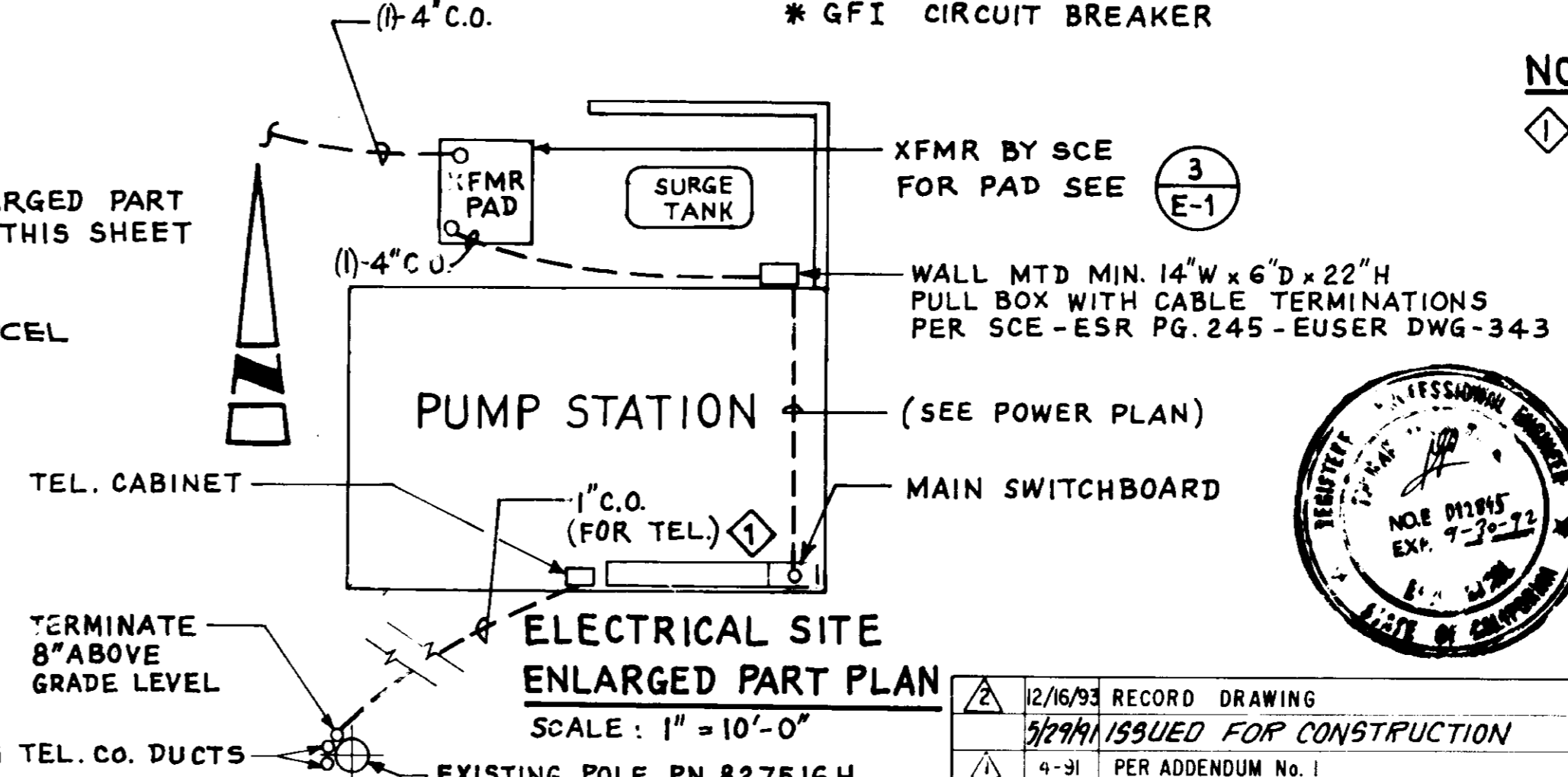
PHOTOELECTRIC CONTROL SCHEMATIC DIAGRAM
E-3

	WATTAGE		OUTLETS		20A-1P c/B U.O.N.	OUTLETS		WATTAGE		
	A	B	LTG	REC/MISC		LTG	REC/MISC	A	B	
LIGHTING	700		7		1		1	500		RTU
RECEPTACLES		720		4	3	*	4		500	FUTURE IRRIGATION
MCC CONTROL	100				5		6			SPACE ONLY
SPACE ONLY					7		8			MAIN
					9	*	10			INCOMING
					11		12			
TOTAL LOAD	800	720						500	500	TOTAL LOAD

TOTAL CONNECTED LOAD = 2.5 KW, 10 AMPS.
* GFI CIRCUIT BREAKER



ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"



ELECTRICAL SITE ENLARGED PART PLAN
SCALE: 1" = 10'-0"

NOTES:
1 PLACE TEL. CONDUIT 30" BELOW GUTTER GRADE WITHIN STREET EASEMENT, AND 24" MIN. BELOW GRADE WITHIN DISTRICTS FEE PARCEL.

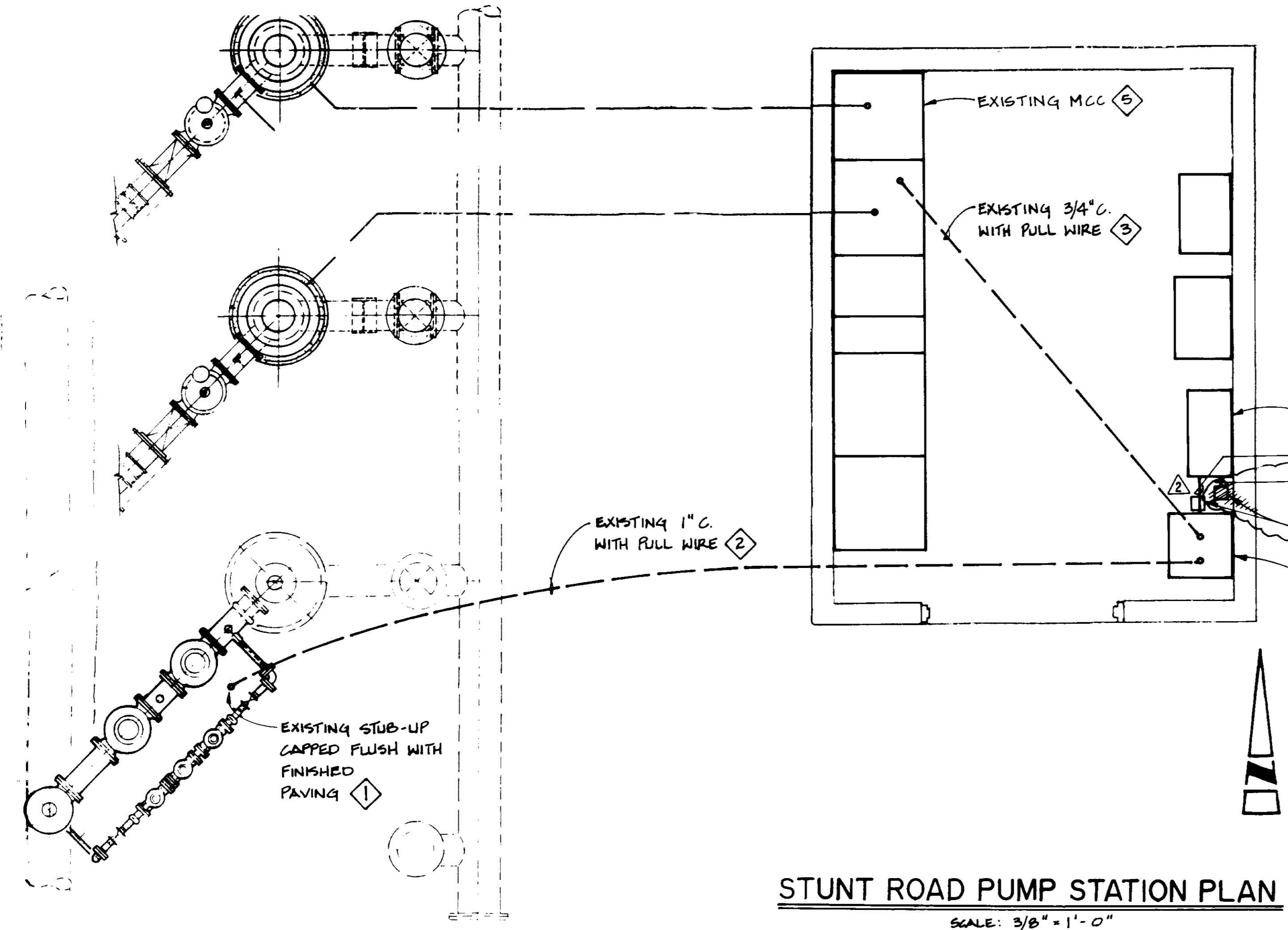
05885

LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
ELECTRICAL SITE & POWER AND LIGHTING PLANS

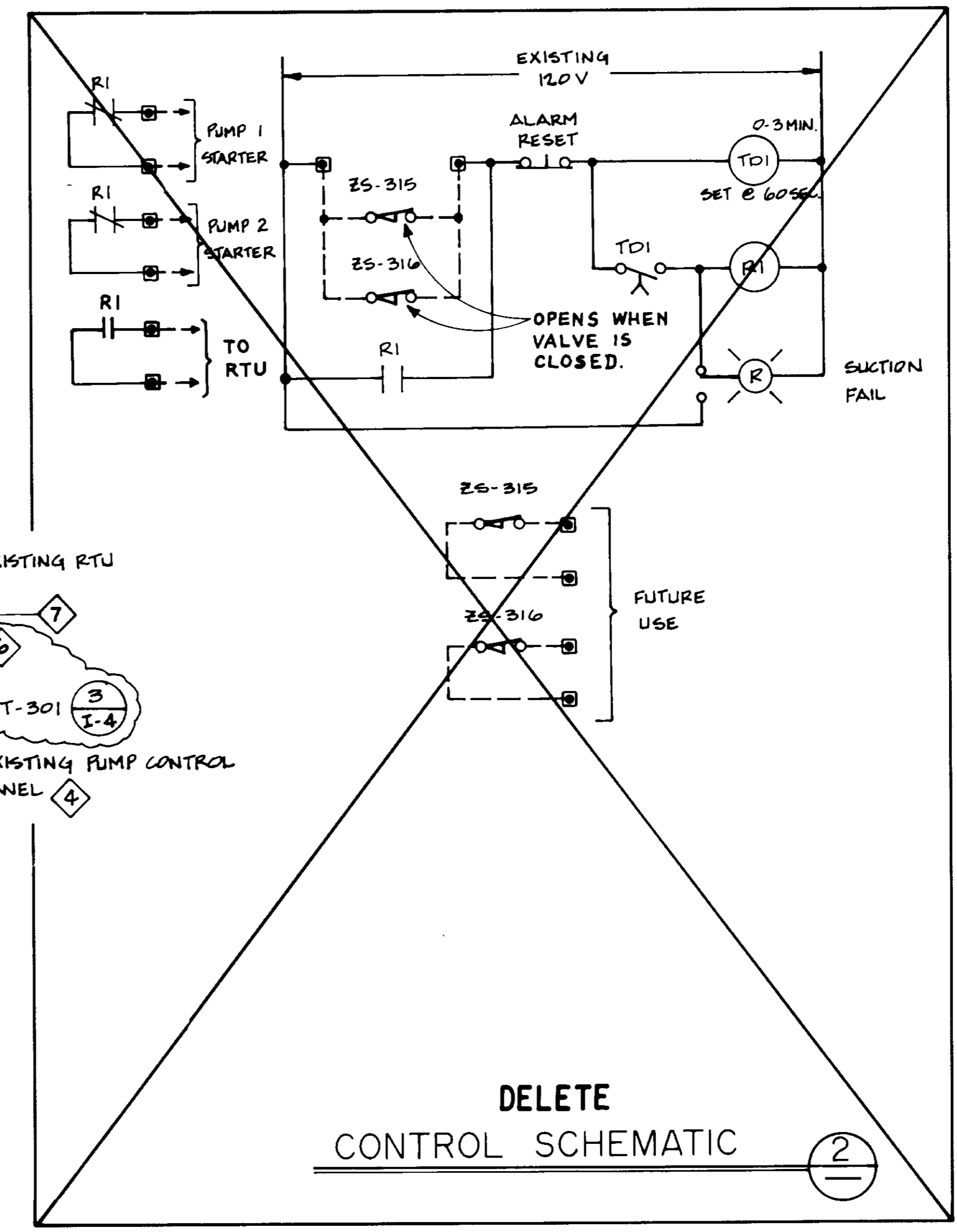


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DESIGN P.T.	DRAWN D.K.	CHECKED A.J.R.	C.A. NO. VT-102-163-03	DRAWING NO. S-225	SHEET NO. 19 OF 24 SHEETS
REV.	DATE	DESCRIPTION			
12/16/93		RECORD DRAWING			
5/29/94		ISSUED FOR CONSTRUCTION			
9-91		PER ADDENDUM No. 1			

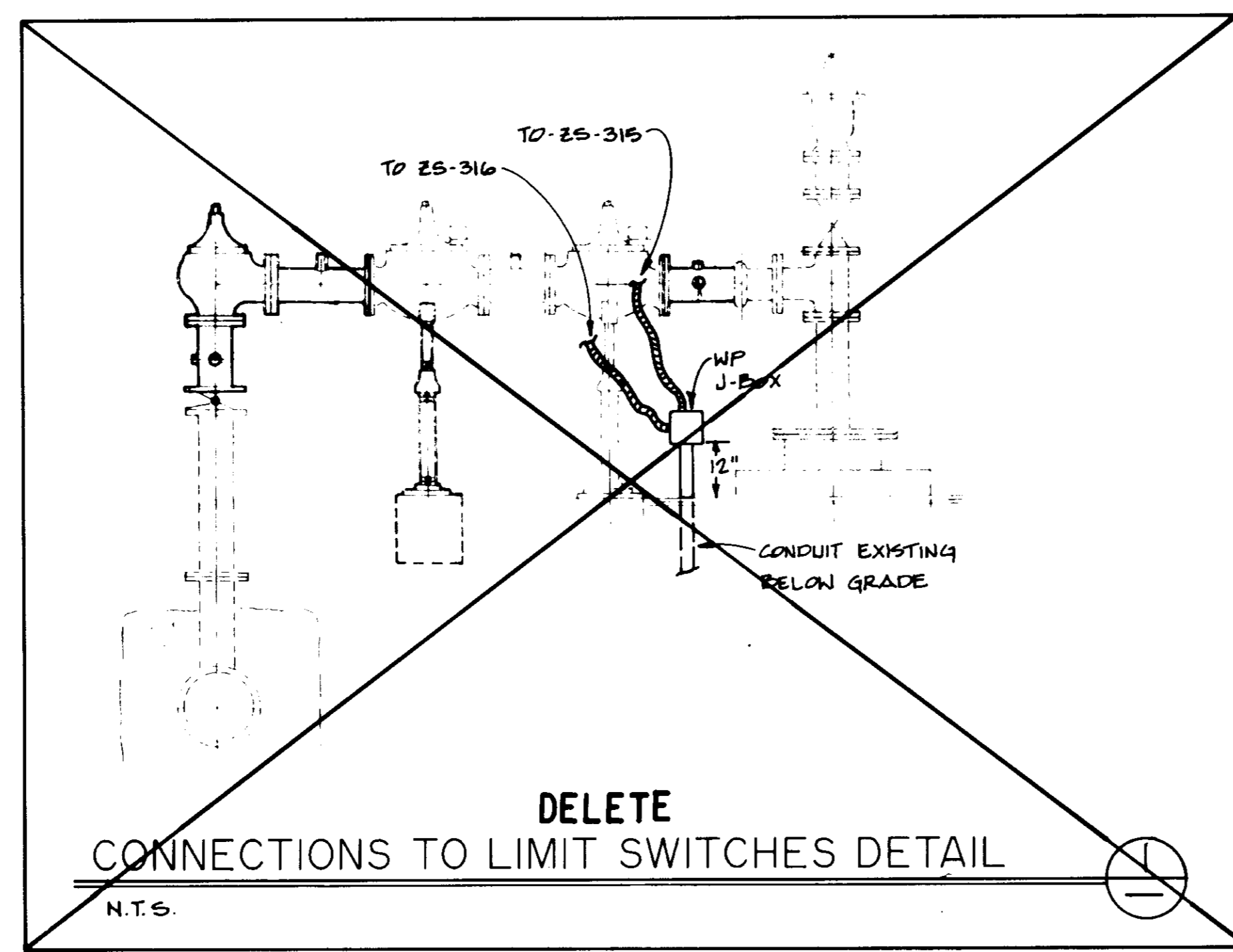


STUNT ROAD PUMP STATION PLAN
SCALE: 3/8" = 1'-0"



DELETE
CONTROL SCHEMATIC (2)

- DELETE**
- WORK TO BE PERFORMED IN THIS CONTRACT
- 1 REMOVE CAP. PROVIDE PER DETAIL (1)
 - 2 PROVIDE 6 #14 CONTROL CONDUCTORS.
 - 3 PROVIDE 4 #14 CONTROL CONDUCTORS.
 - 4 MAKE MODIFICATIONS TO PUMP CONTROL PANEL PER CONTROL SCHEMATIC (2)
- PROVIDE ALARM RESET & SUCTON FAIL ALARM LIGHT ON THE FRONT PANEL. USE DEVICES AND NAMEPLATES COMPATIBLE WITH EXISTING.
- 5 EXTEND CONTROL WIRES PROVIDED IN 3 TO STARTERS OF PUMP 1 & PUMP 2 MOTORS. MODIFY CONTROL OF THESE STARTERS TO INCORPORATE THE NORMALLY CLOSED CONTACTS IN SERIES WITH THE START-STOP COMMAND.
 - 6 1/2" C-1 #18 TSP
 - 7 1/2" C-2 #14
- DELETE**



DELETE
CONNECTIONS TO LIMIT SWITCHES DETAIL
N.T.S.



05886

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CONST. INSP. JAV. AGENCY CALWWD. DATE 11/4/99
DRAFTED BY ASP. AGENCY BEC. DATE 12/2/93
PROJ. ENGR. PRO. AGENCY BEC. DATE 12/2/93

LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
STUNT ROAD PUMP STATION
ELECTRICAL MODIFICATIONS

E-4
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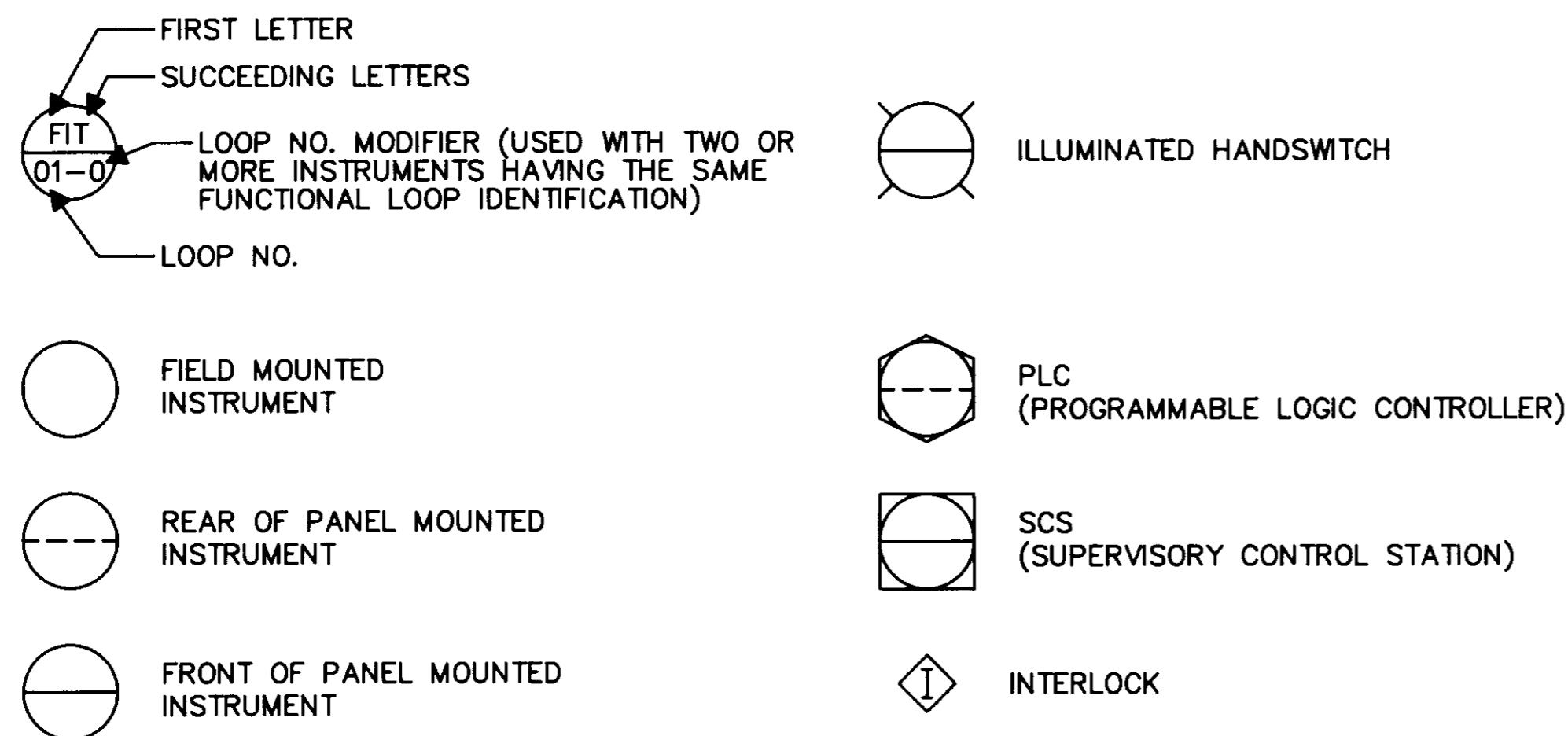
12/16/93	RECORD DRAWING				
3/29/91	ISSUED FOR CONSTRUCTION				
REV	DATE	DESCRIPTION	APP	DESIGN P.T.	DRAWN D.K.
				CHECKED A.J.R.	U.S. NO. DRAWING NO. VT-L02-163-04 S-225
					SHEET NO. 20 OF 24 SHEETS

INSTRUMENT SOCIETY OF AMERICA TABLE

LETTER	FIRST LETTER		SUCCEEDING LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS(*)		ALARM		
B	BURNER FLAME		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	CONDUCTIVITY			CONTROL	
D	DENSITY(MASS)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW RATE	RATIO			
G	GAGING		GLASS	GATE	
H	HAND(MANUAL)				HIGH
I	CURRENT		INDICATE/STATUS		
J	POWER	SCAN			
K	TIME OR SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT(PILOT)		LOW
M	MOTION				MIDDLE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE		
P	PRESSURE (OR VACUUM)		POINT (TEST CONNECTION)		
Q	QUANTITY OR EVENT	TOTALIZE			
R	RADIOACTIVITY		RECORD OR PRINT		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VISCOSITY			VALVE,DAMPER	
W	WEIGHT OR FORCE		WELL		
X	UNCLASSIFIED(*)		UNCLASSIFIED(*)	UNCLASSIFIED(*)	UNCLASSIFIED(*)
Y	USER'S CHOICE			RELAY OR COMPUTE(*)	
Z	POSITION			DRIVE,ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

(*) WHEN USED EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL

INSTRUMENT IDENTIFICATION



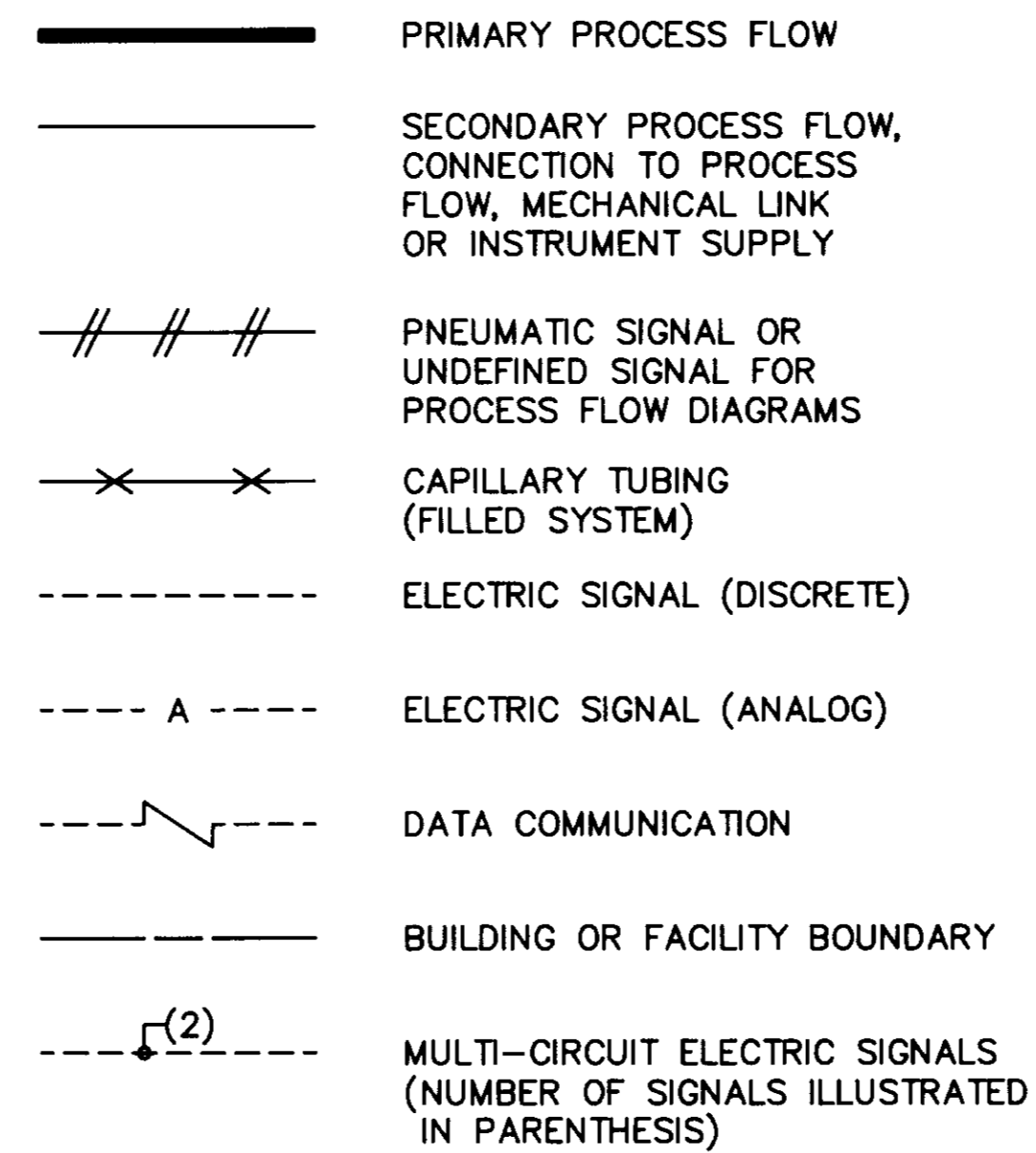
ACTUATORS OR OPERATORS

- M MOTOR
- S SOLENOID

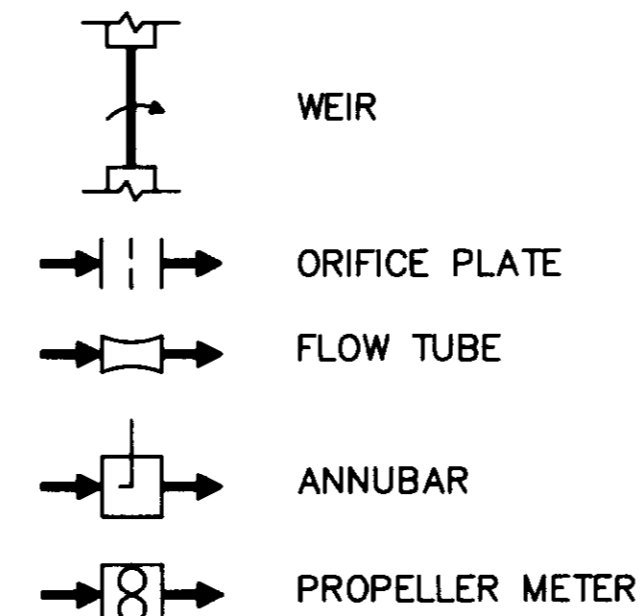
PUMPS & COMPRESSORS

- VERTICAL TURBINE PUMP

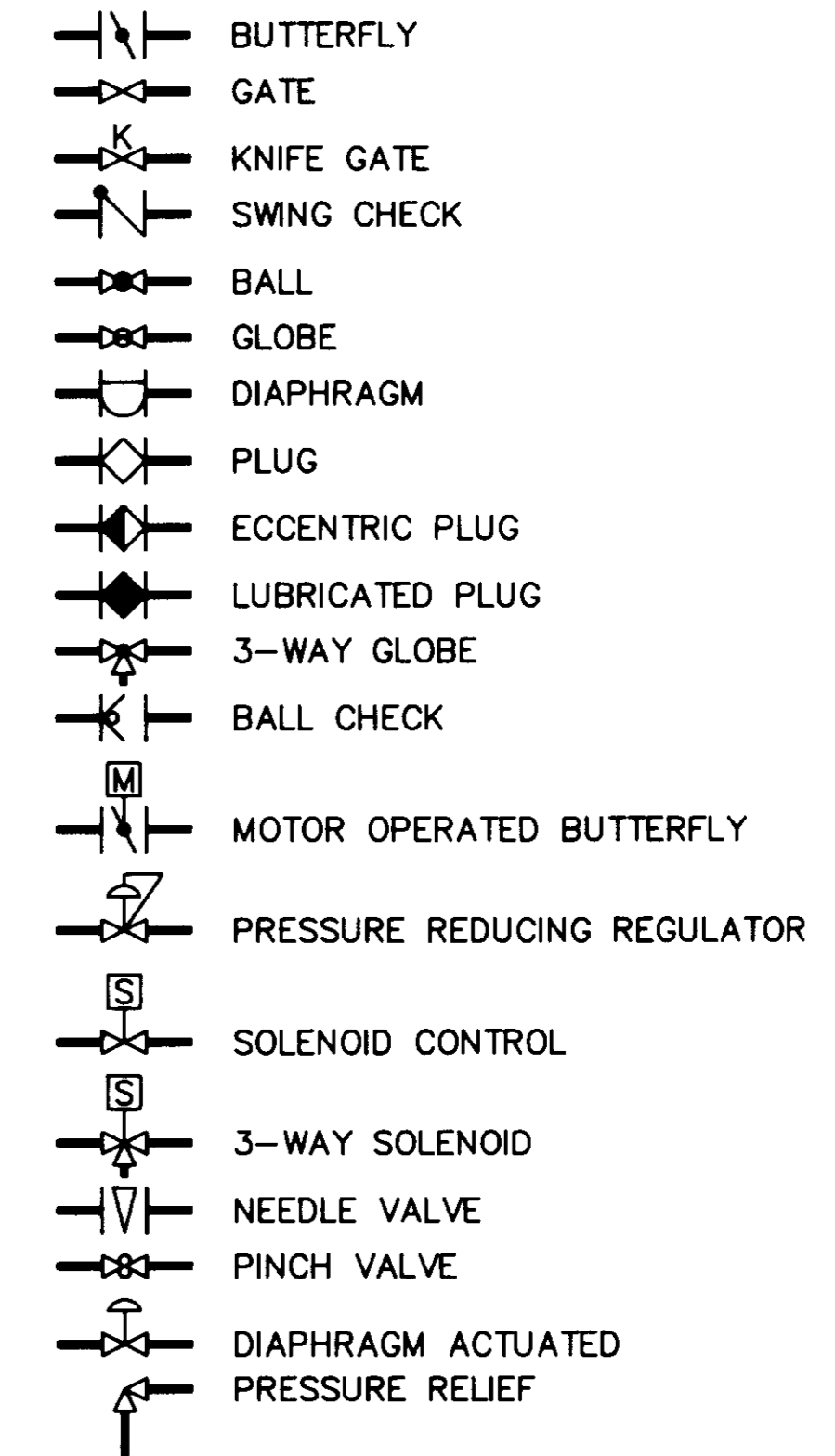
INSTRUMENT LINE SYMBOLS



PRIMARY ELEMENTS



VALVES & GATES



INSTRUMENT ABBREVIATIONS

AL	ALARM	O	OPEN
AC	ALTERNATING CURRENT	OAC	OPEN-AUTO-CLOSE
AI	ANALOG INPUT	OO	ON-OFF
AO	ANALOG OUTPUT	OOA	ON-OFF-AUTO
AM	AUTO-MANUAL	OOR	ON-OFF-REMOTE
AMR	AUTO-MANUAL-REMOTE	ORO	OFF-RESET-ON
CA	COMMON ALARM	OSC	OPEN-STOP-CLOSE
C	CLOSE	OSCA	OPEN-STOP-CLOSE-AUTO
CCS	CENTRAL CONTROL STATION	OSCR	OPEN-STOP-CLOSE-REMOTE
DC	DIRECT CURRENT	P/A	PULSE TO ANALOG
DI	DISCRETE INPUT	PID	PROPORTIONAL-INTEGRAL-DERIVATIVE
DO	DISCRETE OUTPUT	PLC	PROGRAMMABLE CONTROLLER
ETM	ELAPSED TIME METER	P&ID	PROCESS & INSTRUMENTATION DIAGRAM
HOA	HAND-OFF-AUTO	PRV	PRESSURE RELIEF VALVE
HL	HIGH-LOW		
HLOR	HIGH-LOW-OFF-REMOTE	RTU	REMOTE TERMINAL UNIT
I/O	INPUT/OUTPUT	RSP	REMOTE SET POINT
LR	LOCAL-REMOTE	SCS	SUPERVISORY CONTROL STATION
LOS	LOCK-OUT-STOP	SS	START-STOP
LOR	LOCAL-OFF-REMOTE	SP	SET POINT
LPU	LINE PROTECTION UNIT	TSP	TWISTED SHIELDED PAIR
LCP	LOCAL CONTROL PANEL	TURB	TURBIDITY
MCC	MOTOR CONTROL CENTER	TPC	TIME PROPORTIONAL CONTROL
MCS	MASTER CONTROL STATION	TOT	TOTALIZATION
MODEM	MODULATE-DEMULATE		

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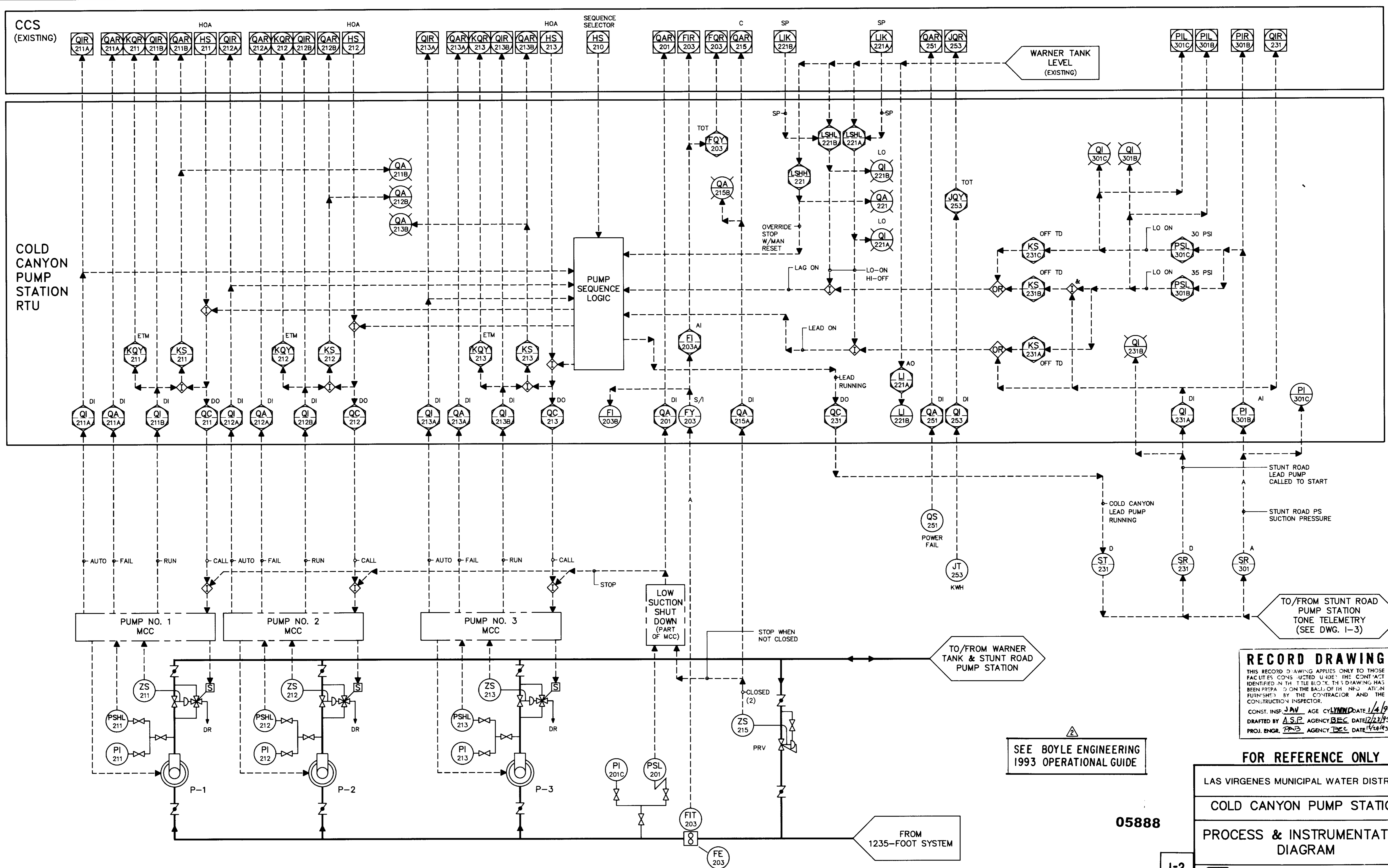
LAS VIRGENES MUNICIPAL WATER DISTRICT
 COLD CANYON PUMP STATION
 INSTRUMENT LEGEND & SYMBOLS. BLOCK DIAGRAM

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1-1

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 DRAFTED BY ASP AGENCY BEC DATE 12/28/83
 PROJ. ENGR. PJP AGENCY BEC DATE 12/28/83

REV.	DATE	DESCRIPTION	APP.	DESIGN	DRAWN	CHECKED	C.A. NO.	DRAWING NO.	SHEET NO.
ES				ES	ES	MJ	WT-102-163-03	S-225	21



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 DRAFTED BY A.S.P. AGENCY REC. DATE 12/21/93
 PROJ. ENGR. P.M.B. AGENCY REC. DATE 1/28/94

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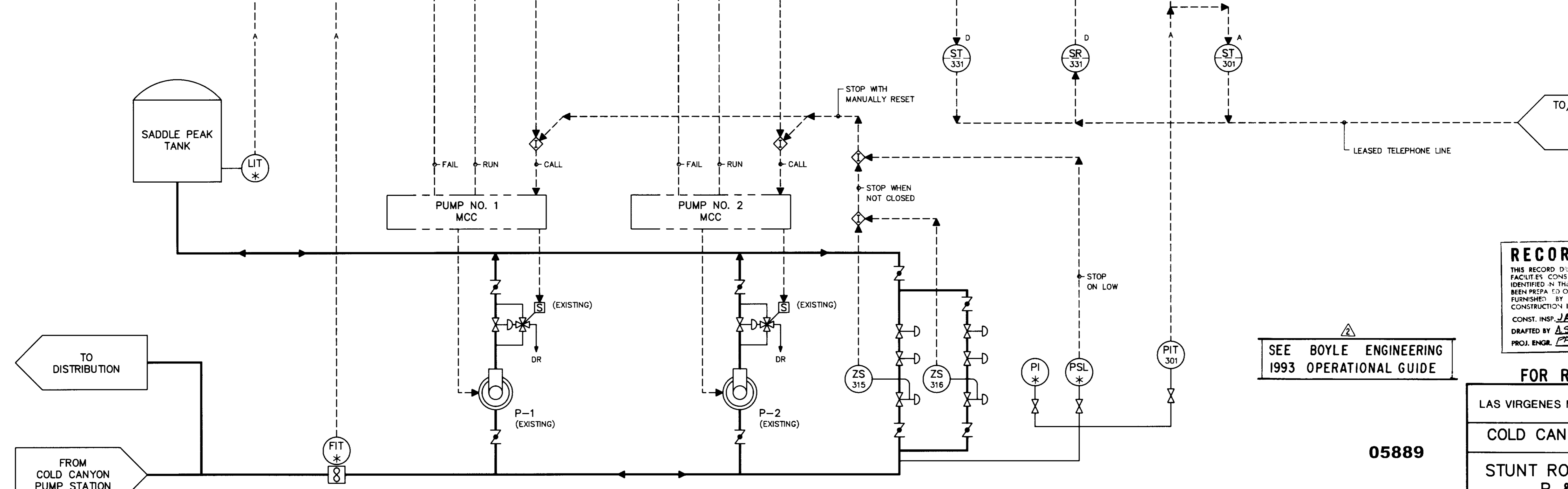
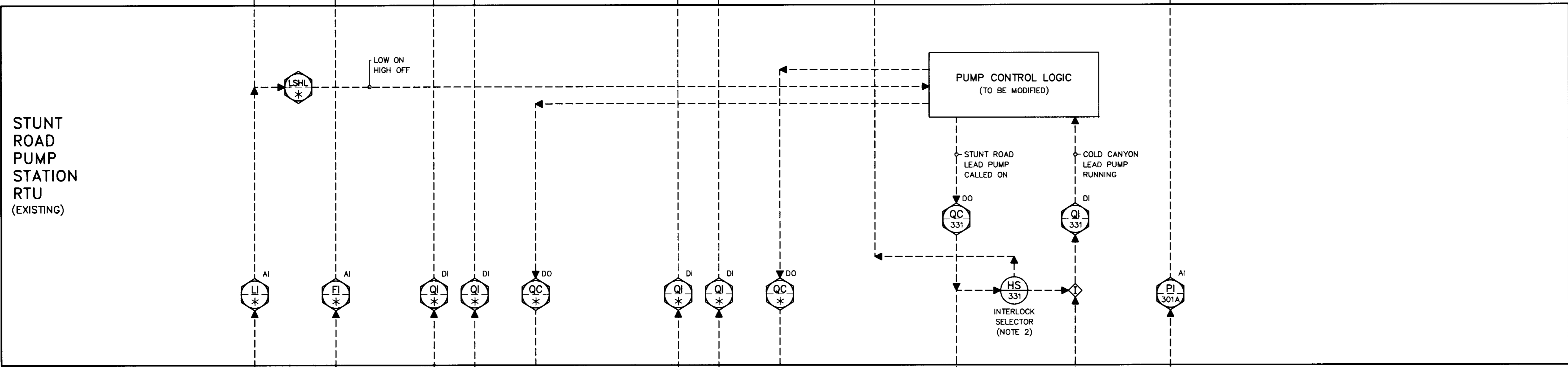
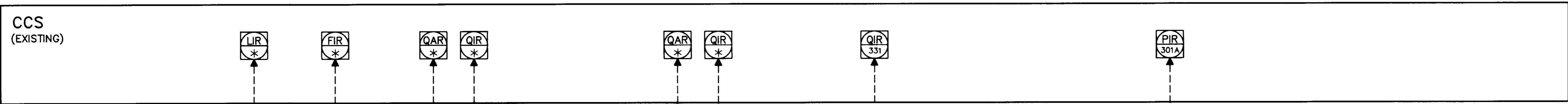
LAS VIRGENES MUNICIPAL WATER DISTRICT
 COLD CANYON PUMP STATION
 PROCESS & INSTRUMENTATION
 DIAGRAM

05888

1-2

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DESIGN	ES	DRAWN	ES	CHECKED	MJ	DATE	12/16/93	SHEET NO.	22
							DATE	12/16/93	22
							DATE	12/16/93	22
							DATE	12/16/93	22



- NOTES:
- * - EXISTING
 - 2-POSITION SWITCH:
POSITION 1 - INTERLOCK ENABLED
POSITION 2 - INTERLOCK OVERRIDDEN

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CONST. INSP. JAL AGE: CYLYMND DATE: 1/4/94
 DRAFTED BY: A.S.P. AGENCY: BEC DATE: 12/21/93
 PROJ. ENGR. PAB AGENCY: BEC DATE: 1/2/94

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1-3

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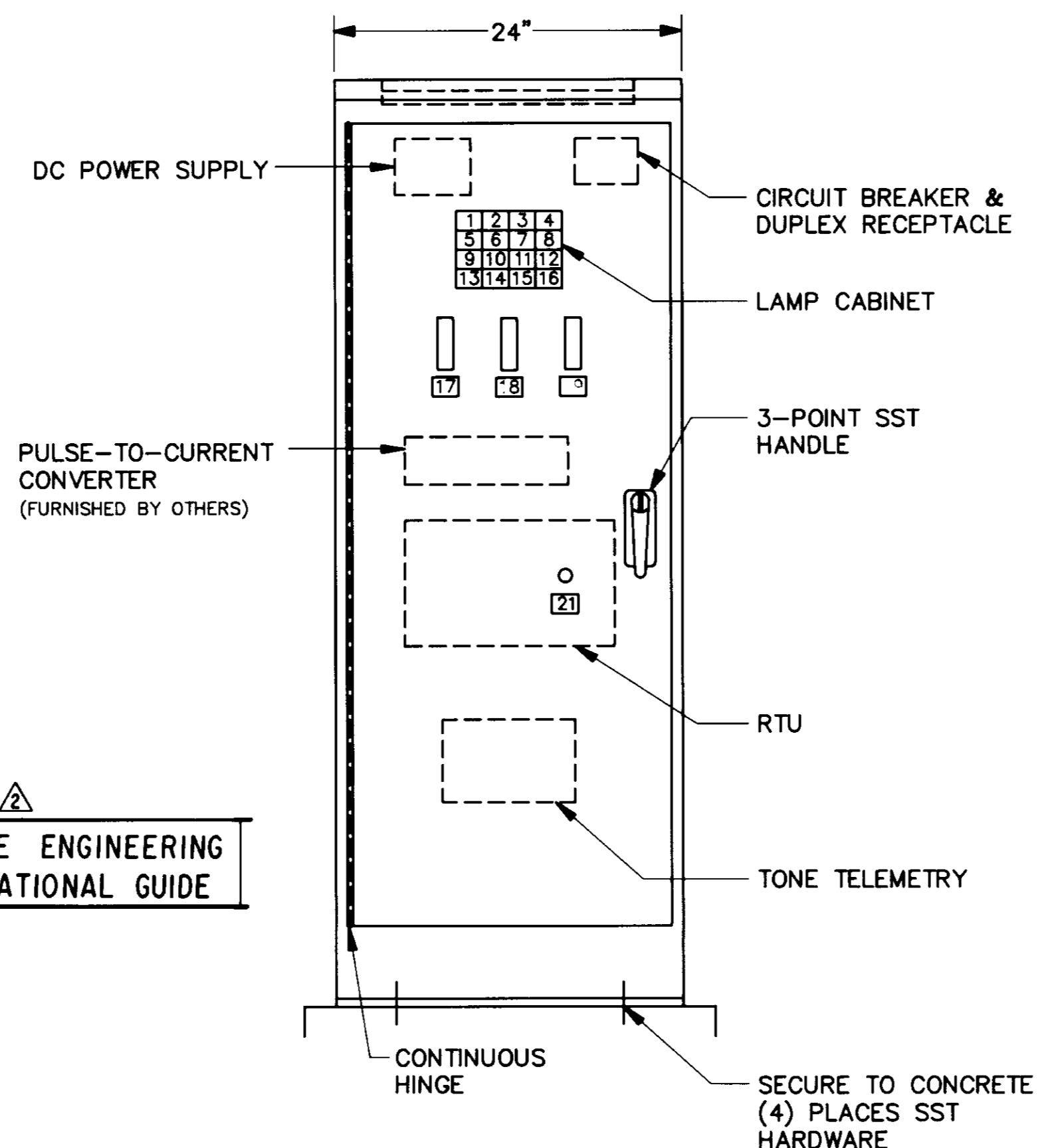
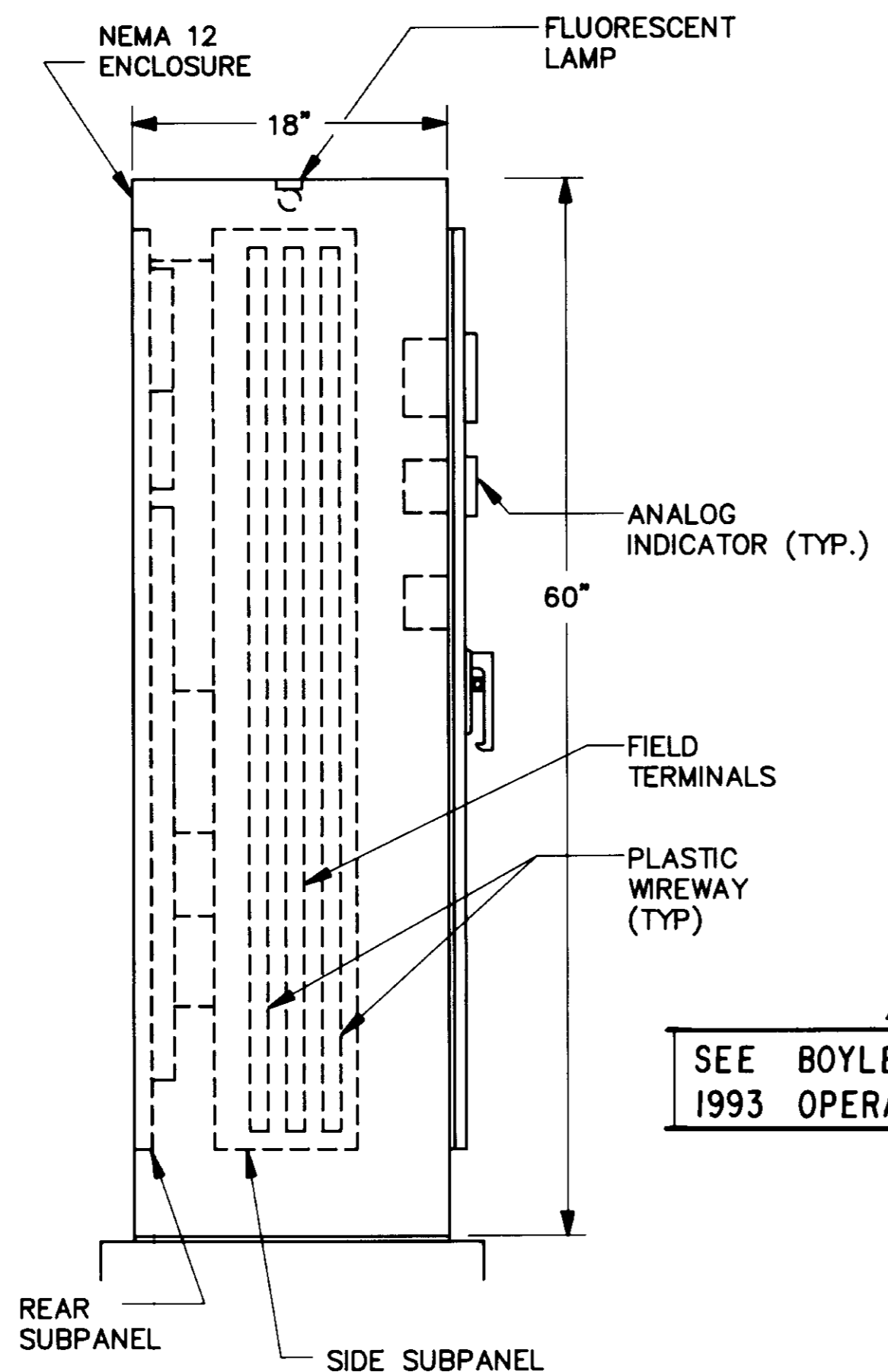
LAS VIRGENES MUNICIPAL WATER DISTRICT

COLD CANYON PUMP STATION

STUNT ROAD PUMP STATION P & I DIAGRAM

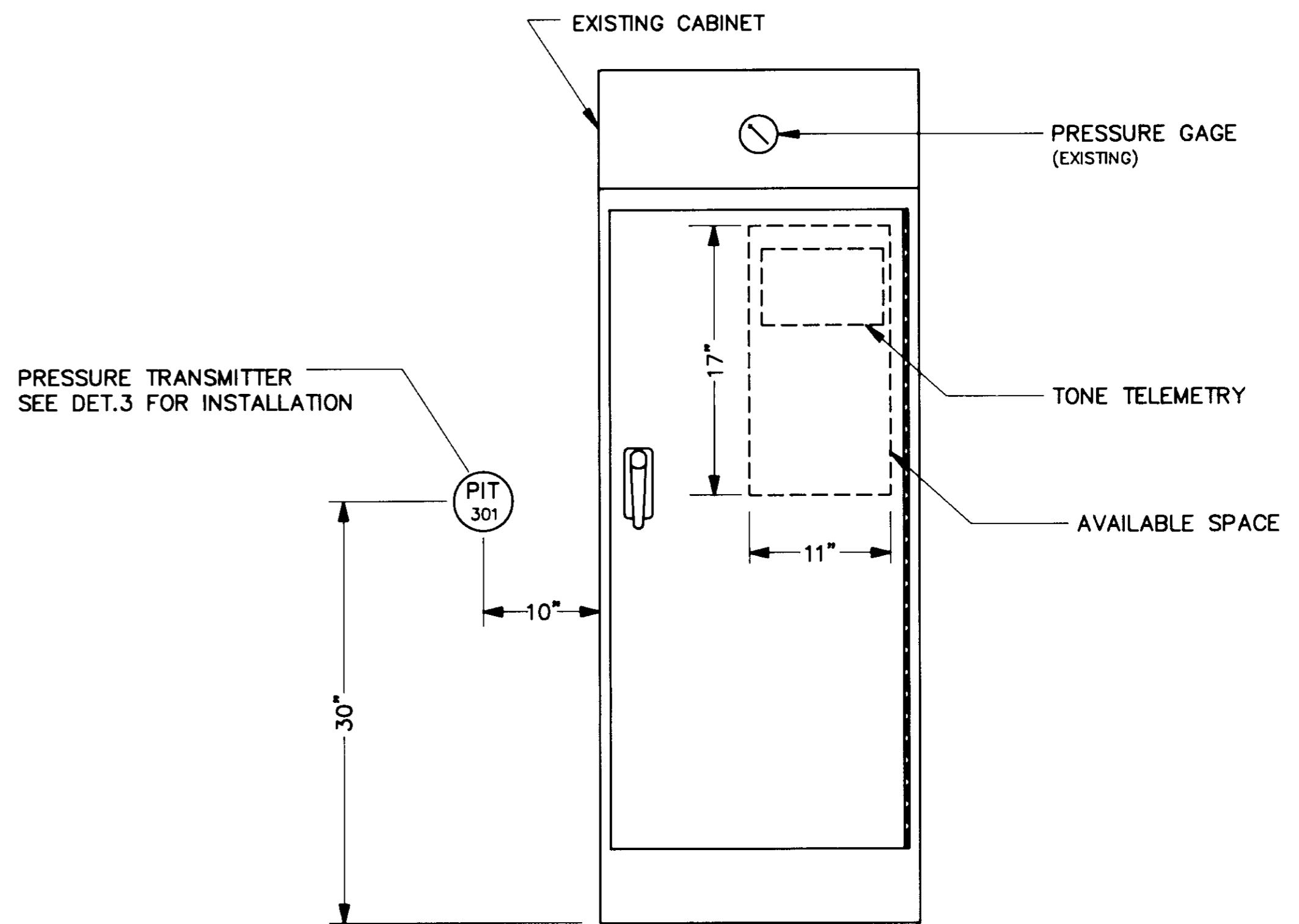
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COLD CANYON RTU PANEL ①
NTS

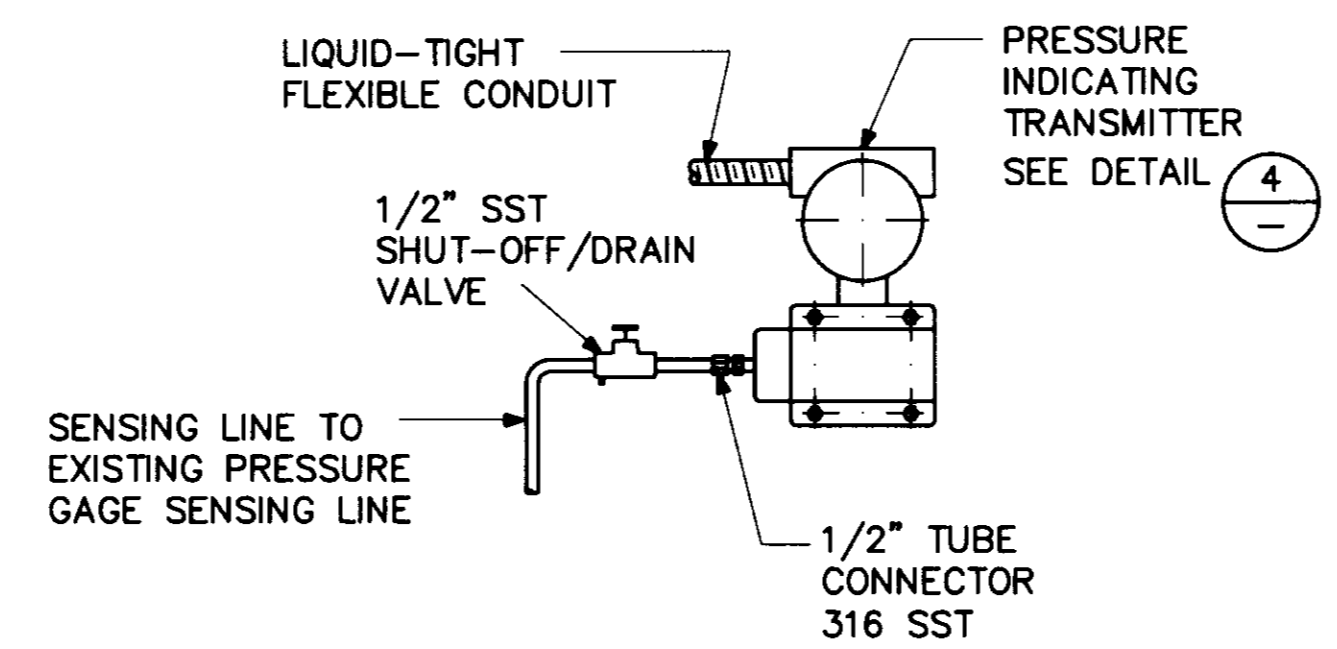


STUNT ROAD PUMP STATION PUMP CONTROL PANEL MODIFICATION ②
NTS

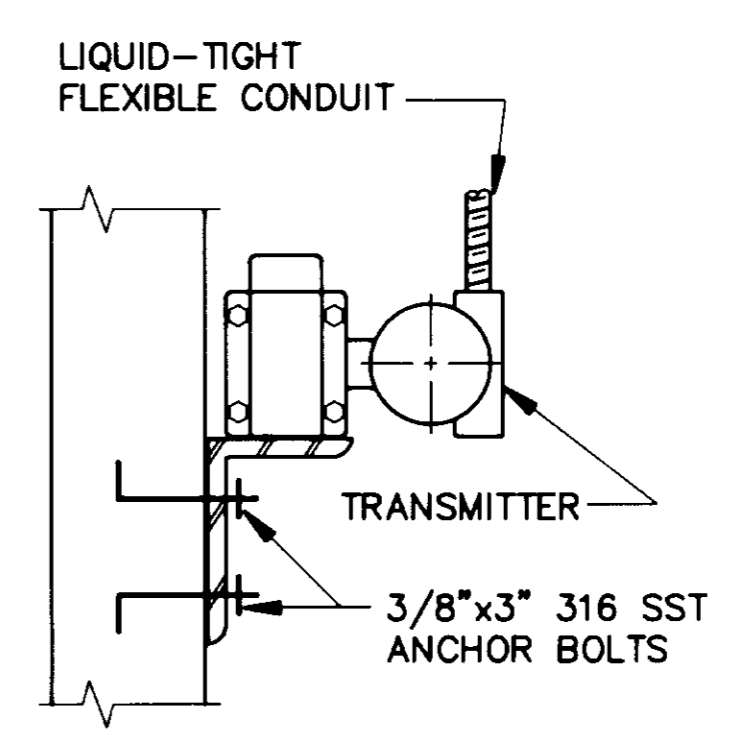
PANEL NAMEPLATES SCHEDULE

ITEM	TAG NO	ENGRAVING	DESCRIPTION
1	QA-211B	PUMP NO.1 FAIL TO START/STOP	RED LENSES
2	QA-212B	PUMP NO.2 FAIL TO START/STOP	
3	QA-213B	PUMP NO.3 FAIL TO START/STOP	
4	QA-221	WARNER TANK LEVEL HIGH-HIGH	LAMP CABINET
5	QA-215B	PRV NOT CLOSED	
6	QI-221A	WARNER TANK LEVEL LOW (LEAD)	WHITE LENSES
7	QI-221B	WARNER TANK LEVEL LOW (LAG)	
8	QI-231B	STUNT ROAD LEAD PUMP CALLED ON	ANALOG INDICATOR
9	QI-301B	STUNT ROAD SUCTION PRESSURE LOW (LEAD)	
10	QI-301C	STUNT ROAD SUCTION PRESSURE LOW (LAG)	
11-16	-	-	SPARE
17	PI-301C	STUNT ROAD SUCTION PRESSURE	ANALOG INDICATOR
18	LI-221B	WARNER TANK LEVEL	
19	FI-203B	FLOW	

~~DELETED~~



PRESSURE INDICATING TRANSMITTER ③
NTS



2-WIRE TRANSMITTER DETAIL ④
WALL MOUNTING
05890

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DRAFTED BY ASB AGENCY DEC DATE 12/18/93
PROJ. ENGR. FAB AGENCY DEC DATE 12/18/93

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LAS VIRGENES MUNICIPAL WATER DISTRICT
COLD CANYON PUMP STATION
PANEL LAYOUTS

I-4

DESIGN	DRAWN	CHECKED	C.A. NO.	DRAWING NO.	SHEET NO.
ES	ES	MJ	VT-102-163-03	S-225	24

OF 24 SHEETS