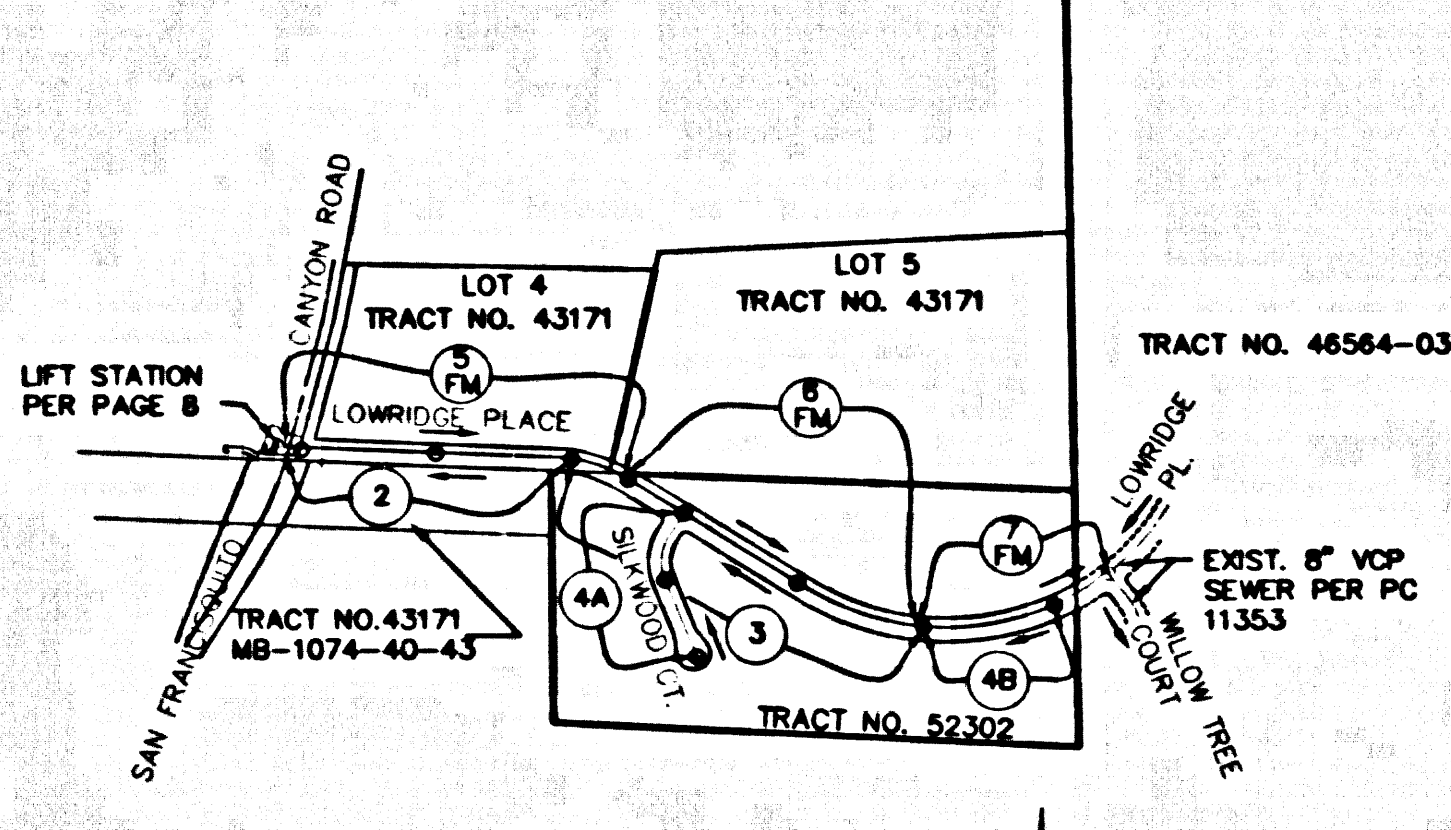


BENCH MARKS
 NEWHALL (1995)
 RD BM TAG IN SE COR. ROCK HDWL AT ANGLE PT.
 17FT. E C/L SAN FRANCISCO CYN RD & 0.45MI
 N/O SHAWNEE CT (TO THE E) AT MKR #17.56
 ELEV. 1293.665 BM NO. L 3598



INDEX MAP
 P.C. 11536 TR. NO. 52302
 SCALE: 1" = 600'
 THOMAS GUIDE PG. 4460 H-2

NO.	REVISION	REVISED BY	APPROVED BY	DATE

STORMWATER POLLUTION CONTROL REQUIREMENTS FOR SEWER CONSTRUCTION

- Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheet flow, erosion, area drains, natural drainage courses, or wind.
- Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
- Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
- Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
- Trash and construction-related solid wastes must be deposited into a covered receptacle to prevent contamination of concrete and debris by wind.
- Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
- Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.

LEGEND

MINIMUM PUBLIC SAFETY REQUIREMENTS	2000-0
BRICK MANHOLE	2003-0
STANDARD MANHOLE STEP	2021-1
BEDDING FOR SEWER PIPE	2021-1
CRADLING AND ENCASUREMENT	2023-2
WYE OR TEE SUPPORT	2024-1
ALLOWABLE TRENCH WIDTHS	2027-1
LOCKING MANHOLE FRAME AND COVER	2110-2
NON-REINFORCED PRECAST CONCRETE MANHOLE	2000-2
BREAK INTO EXISTING MANHOLE	2008-1
SPECIAL HOUSE LATERALS	2222-1
EROSION PROTECTION IN STEEP SLOPES	2008-1
ANCHOR BLOCKS	2221-1
JACKING STEEL CASING FOR SEWER PIPE	2008-1
CHIMNEYS	2200-2
SEWER IN THE VICINITY OF WATER MAINS	2000-1

STANDARD PLANS
 THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE FOLLOWING DEPARTMENT SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT.
 LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DOUBLE SCALE:

PRIVATE CONTRACT SEWER GENERAL NOTES

- The following general notes are to be included on Page 1 of all Private Contract Sewer Plans:
 1. A sewer construction permit shall be obtained and a fee paid for construction inspection and record plans to the Department of Public Works at the Permit Counter, 900 South Vermont Avenue, 8th Floor, Alhambra, at least 72 hours prior to starting work under this permit. Copies of all other required permits, such as Road Excavation, Caltrans, etc. must be filed with the permit application.
 2. Prior to issuance of any permit, the contractor shall file a permit for excavations and trenches from the State of California Division of Industrial Safety, and a Certificate of Worker's Compensation Insurance with the Department of Public Works named as the Certificate Holder to be notified 30 days prior to completion of work.
 3. If work is done in a State Highway, a permit must be obtained from the State of California Division of Highways, 120 South Spring Street, Los Angeles, California.
 4. When work is within a contract city, the contractor must contact the Director of Public Works of that city, to determine the location to pay the inspection fee.
 5. The contractor shall contact the district office listed on the "Application for Construction Permit" to arrange for an acceptable construction start date.
 6. Approval of this plan by the County of Los Angeles does not constitute a representation as to accuracy of the location of or the existence or non-existence of any underground utility pipe or structure within the limits of the project. This note applies to all projects.
 7. All work shall be in accordance with the latest approved edition of the "Standard Specifications for Public Works Construction, including supplements and the latest Special Provisions for the Construction of Sanitary Sewers and shall be prosecuted only in the presence of the Department of Public Works.
 8. The contractor's attention is directed to Section 7-10.4.1 of the Standard Specifications for Public Works Construction in regard to safety orders and shall conform to the "Minimum Public Safety Requirements" as shown on Los Angeles Department of Public Works Standard S-2.
 9. Elevation are in feet above U.S.C. & G.S. sea level datum of 1929.
 10. No revisions shall be made in these plans without the approval of the Director of Public Works.
 11. No representative of the Department of Public Works will survey or lay out any portion of the work.
 12. Grades to which this improvement is to be constructed are shown on plans and profiles. Grade points for top of curbs, centerlines of streets, or centerlines of alleys, are shown by circles on profiles at points between designated points. The grade shall be established so as to conform to a straight line drawn between said designated points.
 13. The private engineer shall furnish the Department of Public Works with grade sheets and stationing for all house laterals and shall provide for them at their proper locations with stationing plainly marked. All house laterals shall be constructed in a straight alignment at right angles to the main line sewer except as shown on the plans. House laterals from chimneys shall not have an angle of less than 45 degrees with the M.L. sewer. Any change in alignment shall be requested in writing by the private engineer.
 14. The private engineer shall furnish the house lateral depth at the property line below the top of curb elevation for each house lateral on the grade sheet.

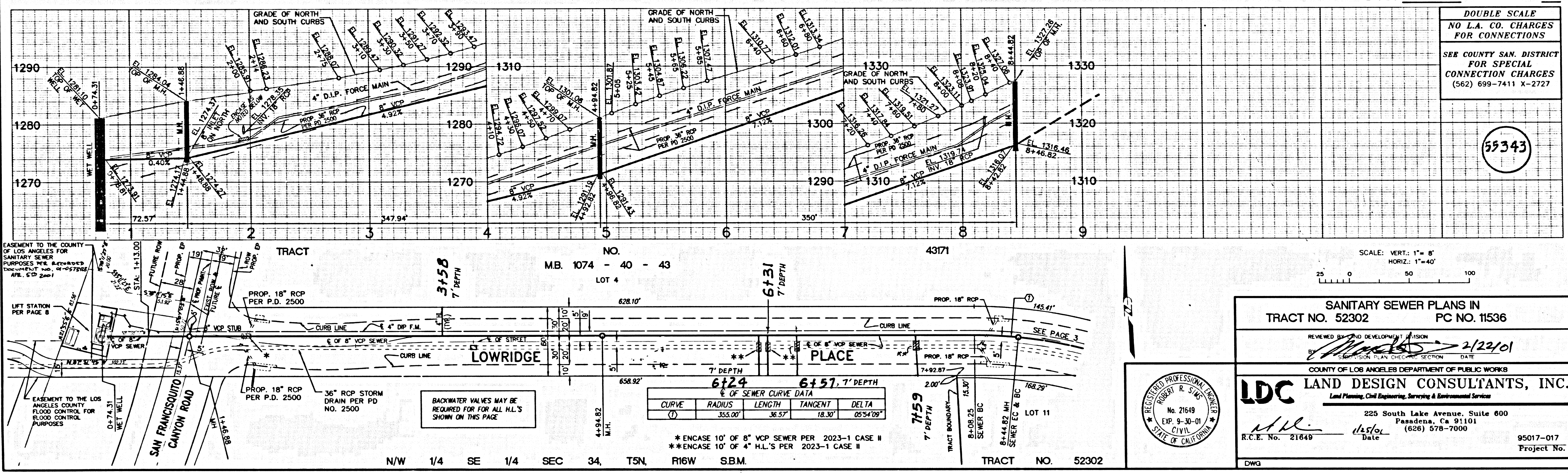
PAGE 1
 PROFILE, ALIGNMENT AND GRADE OF
SANITARY SEWERS
 TO BE CONSTRUCTED IN
 TRACT NO. 52302 PC NO. 11536
 11 SHEETS: 14 PAGES
 INDEX: 1293/1332
 COUNTY OF LOS ANGELES CALIFORNIA

HARRY W. STONE DIRECTOR OF PUBLIC WORKS
 APPROVED BY: LAND DEVELOPMENT DIVISION
 BY: *[Signature]* DATE: 2/22/01
 ASSISTANT DIVISION ENGINEER
 SUBMITTED BY: *[Signature]* DATE: 2/22/01
 SUBDIVISION PLAN CHECKING SECTION

APPROVED: COUNTY SANITATION DISTRICT
 OF LOS ANGELES COUNTY, CALIFORNIA
 JAMES F. STAHL - CHIEF ENGINEER and GENERAL MANAGER
 COUNTY SANITATION DISTRICT NO. 26
 BY: *[Signature]* DATE: 2/2/01
 OFFICE ENGINEER

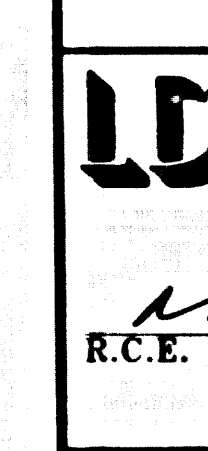
PRIVATE ENGINEERS NOTICE TO CONTRACTORS:
 THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS IS REQUIRED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING. PRIOR TO EXCAVATION THE CONTRACTOR SHALL CALL TOLL FREE 1-800-422-4133 TO VERIFY THE UNDERGROUND LOCATION OF GAS AND TELEPHONE LINES. THE CONTRACTOR SHALL ALSO CALL MR. RAY DUMMINGS OF GENERAL TELEPHONE COMPANY AT 1-800-348-4871 SO THAT THEY CAN MARK THE LOCATION OF UNDERGROUND TELEPHONE LINES.
 RCE NO 21649 DATE

P.C. 11536 PAGE 2



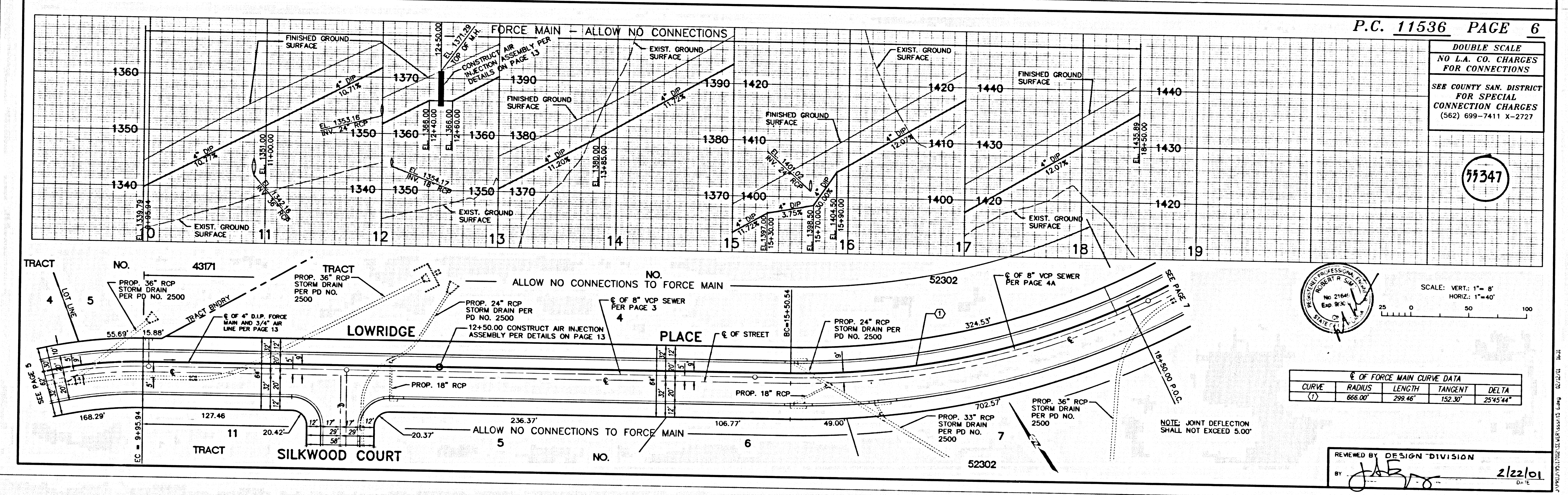
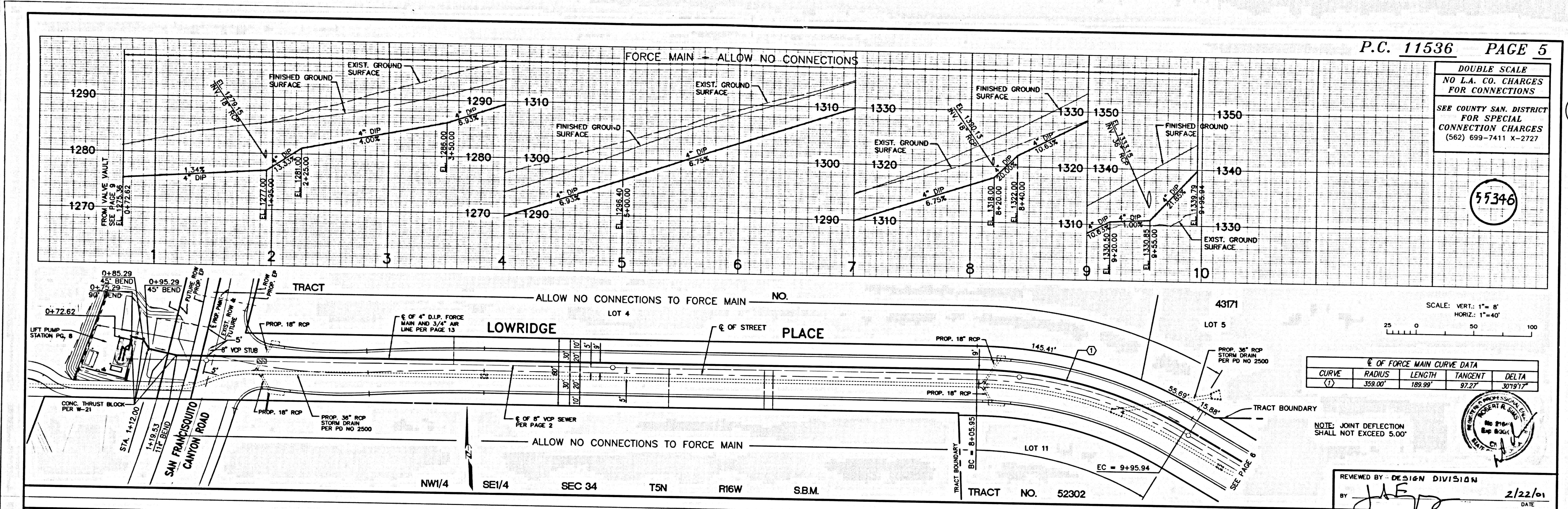
DOUBLE SCALE
 NO L.A. CO. CHARGES FOR CONNECTIONS
 SEE COUNTY SAN. DISTRICT FOR SPECIAL CONNECTION CHARGES (562) 699-7411 X-2727

SANITARY SEWER PLANS IN
 TRACT NO. 52302 PC NO. 11536
 REVIEWED BY: LAND DEVELOPMENT DIVISION
 BY: *[Signature]* DATE: 2/22/01
 ASSISTANT DIVISION ENGINEER
 COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS



LDC LAND DESIGN CONSULTANTS, INC.
 Land Planning, Civil Engineering, Surveying & Environmental Services
 225 South Lake Avenue, Suite 600
 Pasadena, CA 91101
 (626) 578-7000
 R.C.E. No. 21649 Date: 1/25/01
 DWG 95017-017 Project No.

03317 C9 50853 RT
 55342
 55343



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TR 25305 P.C. 11238

DOUBLE SCALE
NO L.A. CO. CHARGES
FOR CONNECTIONS
SEE COUNTY SAN. DISTRICT
FOR SPECIAL
CONNECTION CHARGES
(562) 699-7411 X-2727

DOUBLE SCALE
NO L.A. CO. CHARGES
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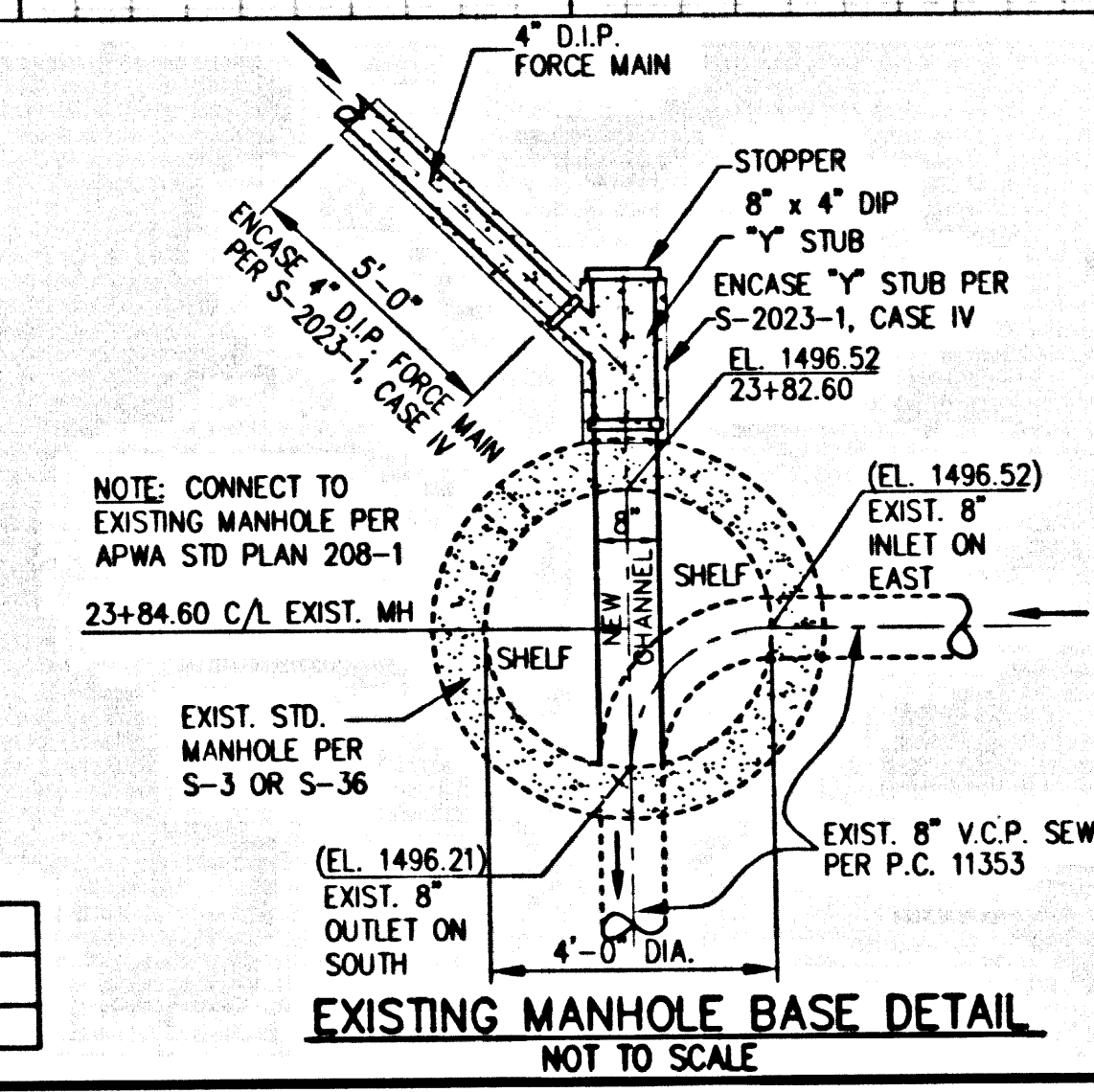
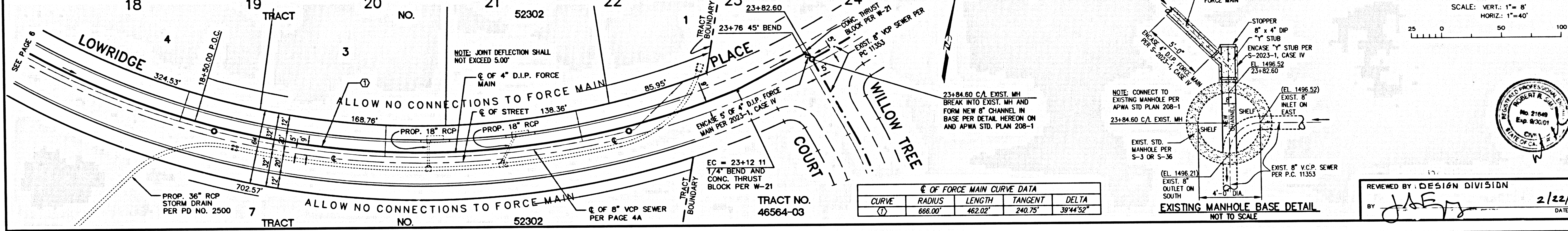
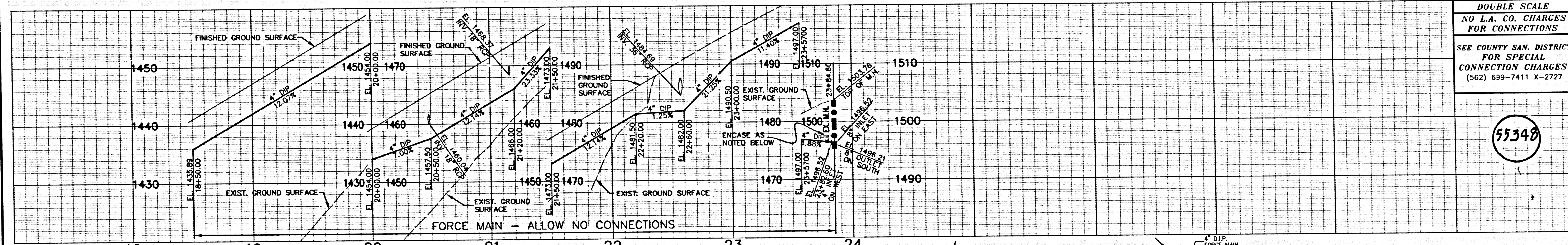
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FOR CONNECTIONS
SEE COUNTY SAN. DISTRICT
FOR SPECIAL
CONNECTION CHARGES
(562) 699-7411 X-2727

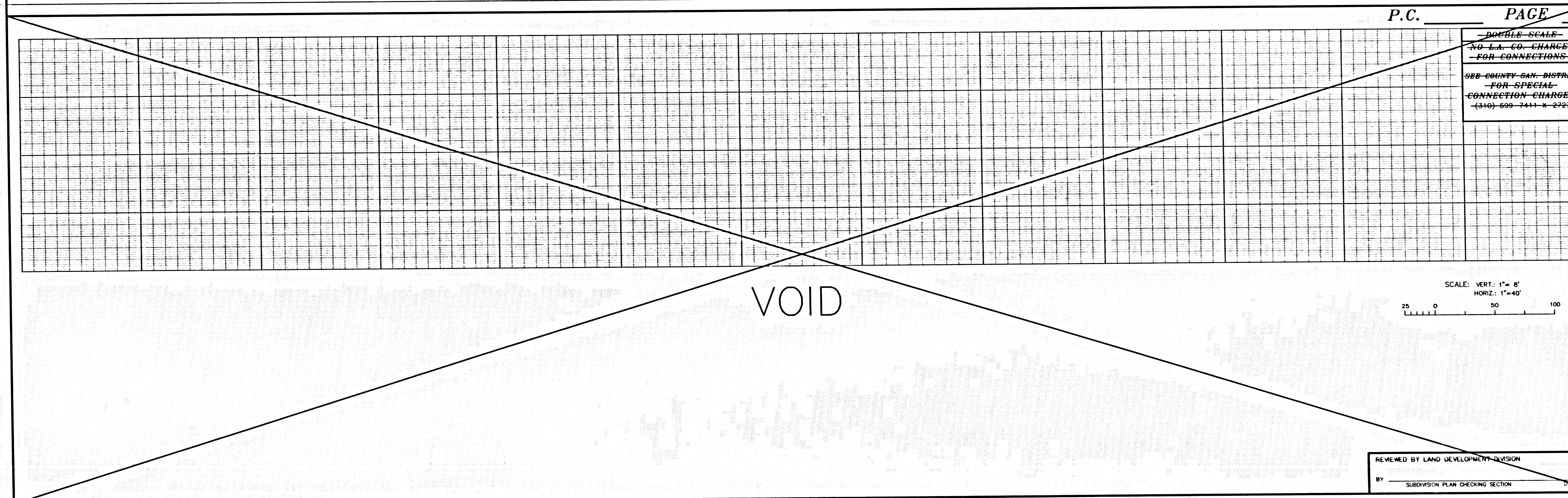
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SCALE: VERT.: 1" = 8'
HORIZ.: 1" = 40'

REVIEWED BY: DESIGN DIVISION
DATE: 2/22/01



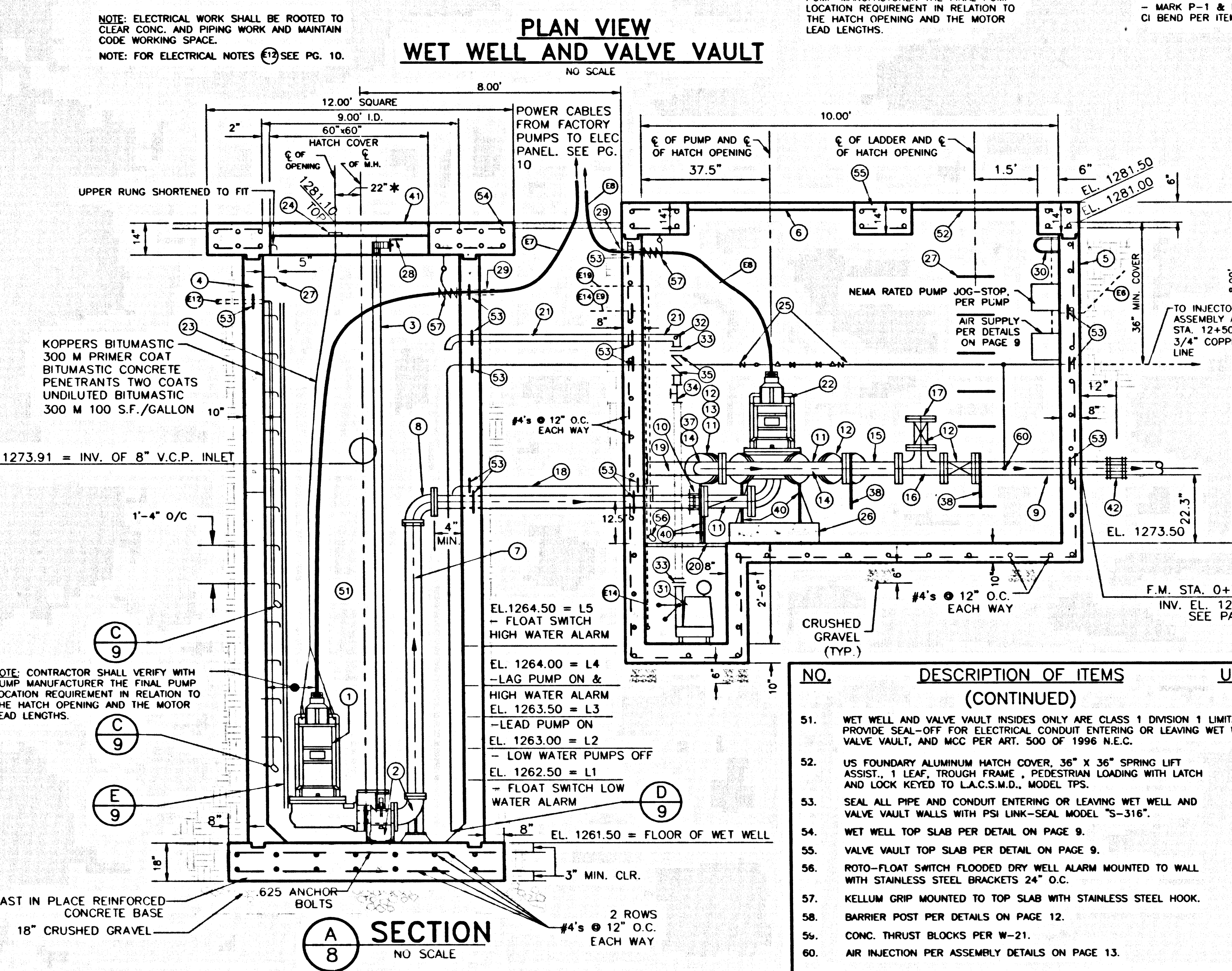
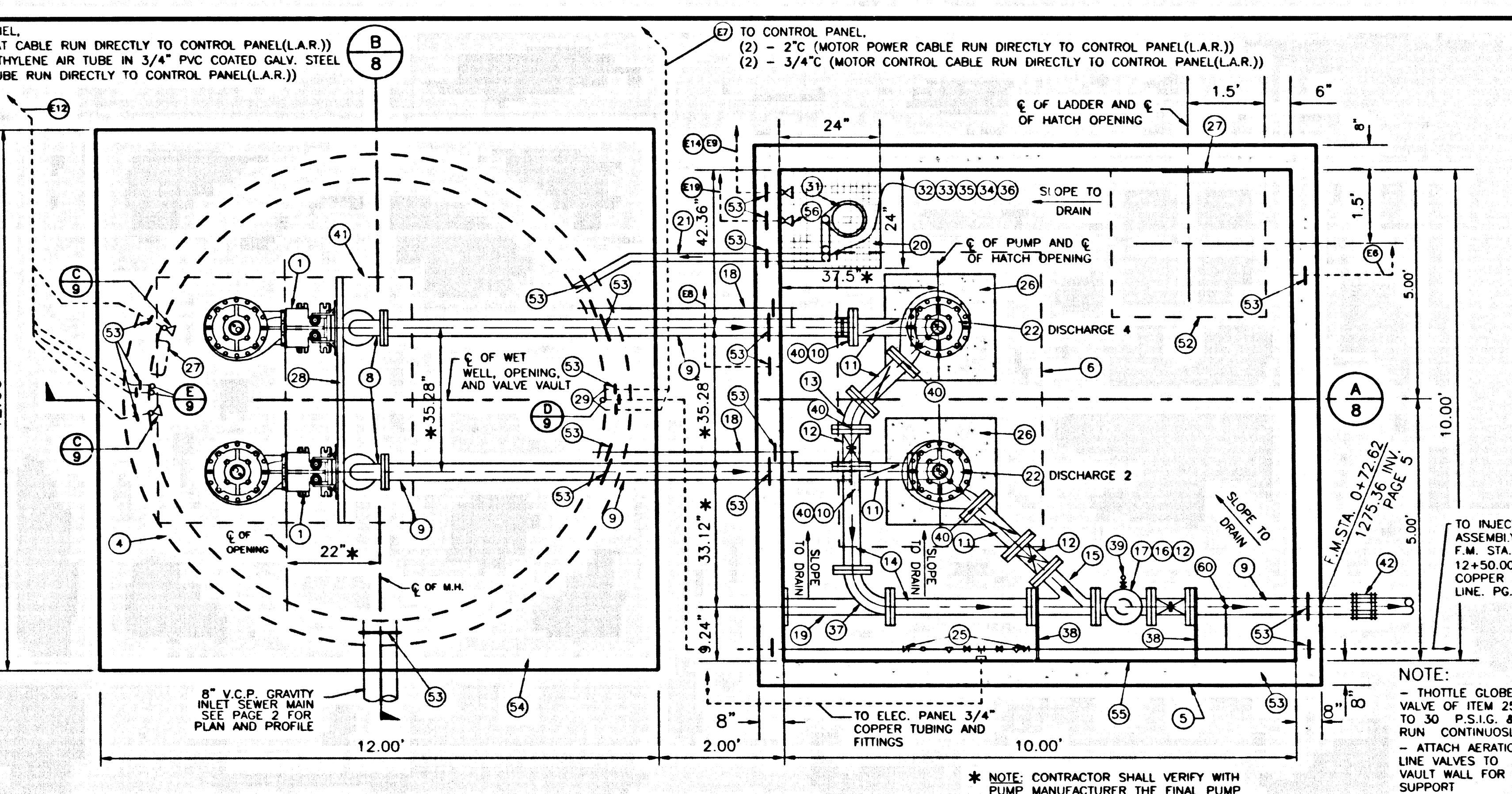
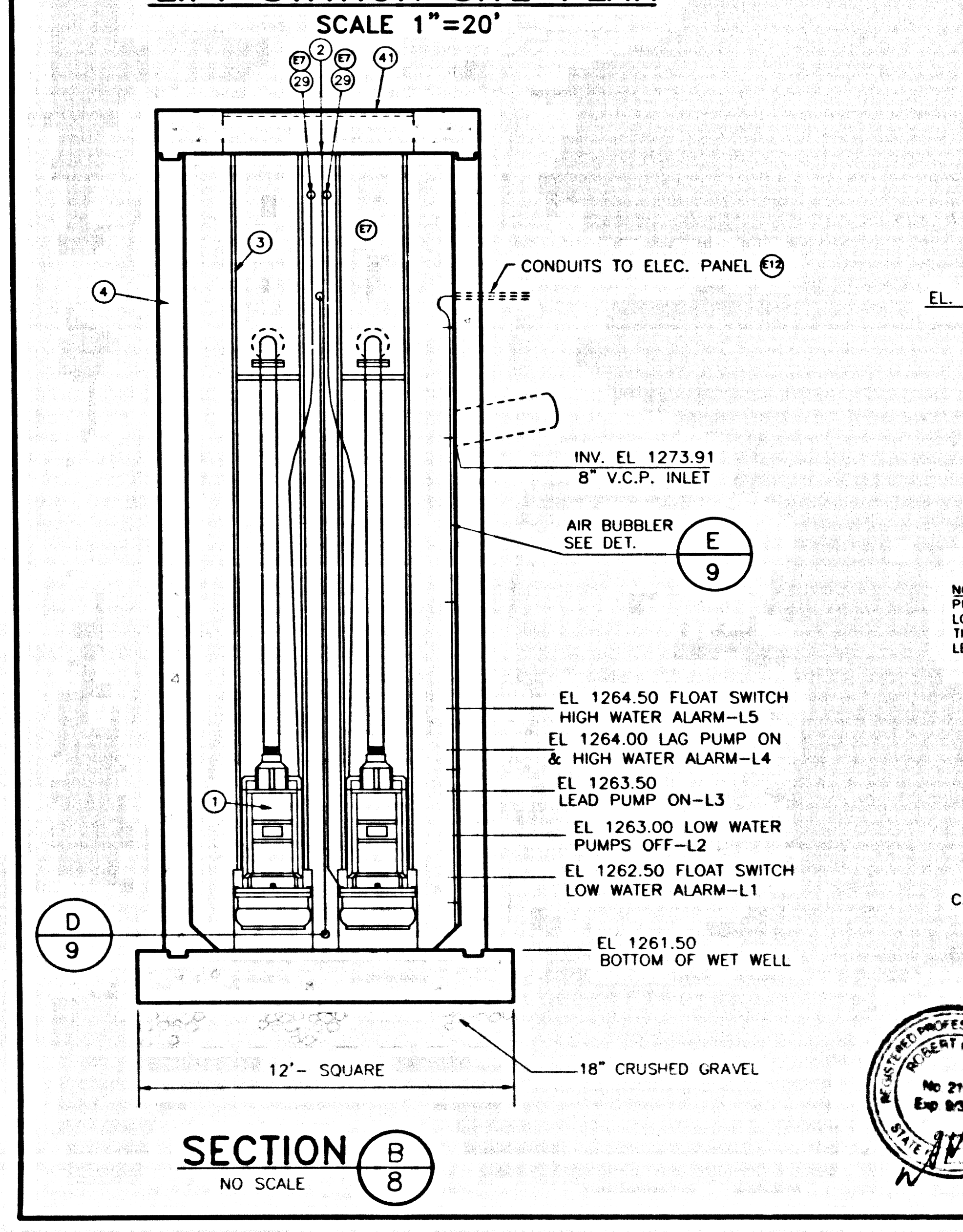
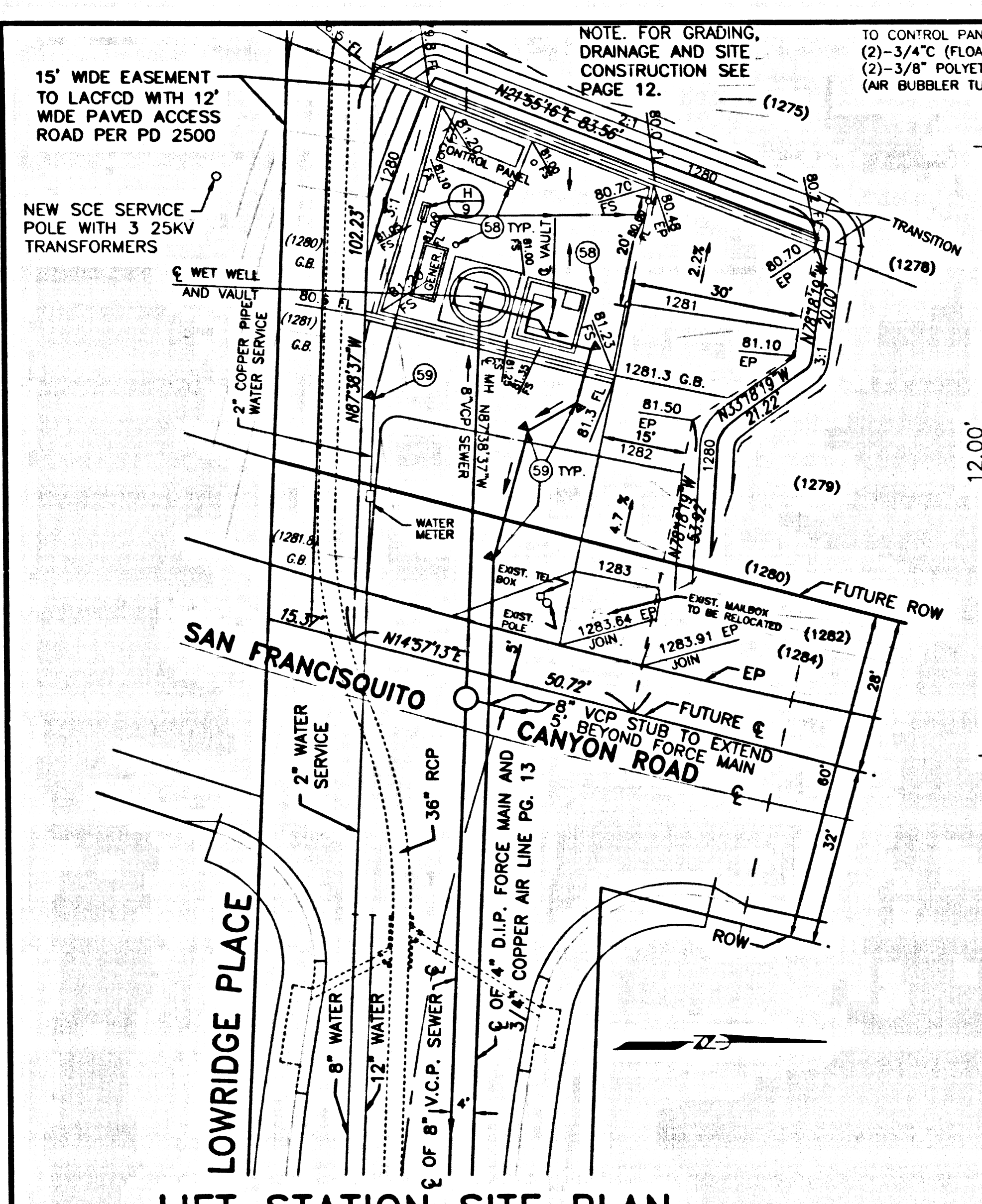
P.C. PAGE

DOUBLE SCALE
NO L.A. CO. CHARGES
FOR CONNECTIONS
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SCALE: VERT.: 1" = 8'
HORIZ.: 1" = 40'

REVIEWED BY: LAND DEVELOPMENT DIVISION
SUBDIVISION PLAN CHECKING SECTION

SEAL C.P. 20352 .PT



NO.	DESCRIPTION OF ITEMS	UNITS
51.	WET WELL AND VALVE VAULT INSIDES ONLY ARE CLASS 1 DIVISION 1 LIMITATION. PROVIDE SEAL-OFF FOR ELECTRICAL CONDUIT ENTERING OR LEAVING WET WELL VALVE VAULT, AND MCC PER ART. 500 OF 1996 N.E.C.	
52.	US FOUNDARY ALUMINUM HATCH COVER, 36" X 36" SPRING LIFT ASSIST, 1 LEAF, TROUGH FRAME, PEDESTRIAN LOADING WITH LATCH AND LOCK KEYS TO L.A.C.S.D. MODEL TFD.	1 EA.
53.	SEAL ALL PIPE AND CONDUIT ENTERING OR LEAVING WET WELL AND VALVE VAULT WALLS WITH PSI LINK-SEAL MODEL "S-316".	
54.	WET WELL TOP SLAB PER DETAIL ON PAGE 9.	1 EA.
55.	VALVE VAULT TOP SLAB PER DETAIL ON PAGE 9.	1 EA.
56.	ROTO-FLOAT SWITCH FLOODED DRY WELL ALARM MOUNTED TO WALL WITH STAINLESS STEEL BRACKETS 24" O.C.	1 EA.
57.	KELLMAN GRIP MOUNTED TO TOP SLAB WITH STAINLESS STEEL HOOK.	4 EA.
58.	BARBER POST PER DETAIL ON PAGE 12.	
59.	CONC. THRUST BLOCKS PER W-21.	
60.	AIR INJECTION PER ASSEMBLY DETAILS ON PAGE 13.	

NO.	DESCRIPTION OF ITEMS	UNITS
1.	ESSCO DUPLEX MODEL 4 X 12-TF. TORQUE FLOW, NON-CLOG SUBMERSIBLE PUMPS WITH 12" RECESSED IMPELLER CAPABLE OF PASSING PIPE SIZE DIAMETER SOLIDS, U.L. APPROVED RELIANCE SUBMERSIBLE MOTOR, EXPLOSION PROOF, CLASS I, GROUP D, FOR HAZARDOUS LOCATION, WITH DOUBLE SEAL, OIL BUFFER ZONE, MOISTURE SENSING PROBES, TUNGSTEN CARBIDE LOWER SEAL, POWER CABLES (LENGTH A/R), WITH SPECIAL FIVE YEAR WARRANTY. ALSO INCLUDES: SPARE IMPELLER, INNER AND OUTER MECHANICAL SEALS, IMPELLER BOLTS AND WASHERS, PUMP ASSEMBLY U.L. LISTED, OR APPROVED EQUAL.	2 EA.
2.	EACH 25 H.P., 3/60/460V, 1750 RPM MOTOR WITH WARNING DEVICE RATED TO DELIVER 130 G.P.M. AGAINST 137.4 FEET T.D.H., PER STAGE.	
3.	VERTICAL PUMPS TO BE INSTALLED ON STAINLESS STEEL SLIDE RAILS WITH HEAVY DUTY PUMP AND DISCHARGE MATING FIXTURE ASSEMBLY WITH SUPPORTED DISCHARGE ELBOW. THE ENTIRE SYSTEM SHALL BE U.L. APPROVED.	2 EA.
4.	2" STAINLESS STEEL SLIDE RAILS 304.	4 EA.
5.	WET WELL SHALL BE PRECAST CONCRETE STRUCTURE, 9' DIA. BY 19.60' DEEP JOINTS TO BE MADE 3/4" BRASS VALVES, WITH SPECIAL FIVE YEAR WARRANTY. ALSO INCLUDES: SPARE IMPELLER, INNER AND OUTER MECHANICAL SEALS, IMPELLER BOLTS AND WASHERS, PUMP ASSEMBLY U.L. LISTED, OR APPROVED EQUAL.	1 EA.
6.	US FOUNDARY ALUMINUM HATCH COVER, 48" X 72" SPRING LIFT ASSIST, 2 LEAF, TROUGH FRAME, PEDESTRIAN LOADING WITH LATCH AND LOCK KEYS TO L.A.C.S.D. MODEL TFD.	1 EA.
7.	4" FLANGED D.I.P. SPOOL(LENGTH A/R).	2 EA.
8.	4" FLANGED D.I. 1/4 BEND (90).	2 EA.
9.	4" FLANGED X P.E. D.I.P. SPOOL(LENGTH A/R).	3 EA.
10.	4" FLANGED X D.I.P. ADAPTER COUPLING BAKER 601.	2 EA.
11.	4" FLANGED SWING CHECK VALVE, CRANE MODEL NO. 383 WITH OUTSIDE LEVER AND MOUNT, OR APPROVED EQUAL.	4 EA.
12.	4" FLANGED GATE VALVE CRANE NO. 461 NCS (CL 125) NRS EPOXY LINED.	4 EA.
13.	4" FLANGED D.I. 1/8 BEND (45).	2 EA.
14.	4" FLANGED D.I.P. SPACER SPOOL (L.A.R.).	1 EA.
15.	4" FLANGED D.I. LATERAL (45).	1 EA.
16.	4" FLANGED D.I. TEE WITH 1/4" TAP AT MIDDLE OF TEE FOR PRESSURE GAGE.	1 EA.
17.	4" D.I. BEND FLANGE (WITH STAINLESS STEEL BOLTS).	1 EA.
18.	BYPASS/AIR RELEASE ASSEMBLY FOR PUMPS A. 3/4" COPPER PIPE B. 3/4" COPPER TEE C. 3/4" COPPER ELBOW D. 3/4" COPPER 1/4" LONG RADIUS 90 BEND (DIRECTED DOWNWARD)	L.A.R. 1 EA. 1 EA. 1 EA.
19.	THRUST BRACE PER DETAIL ON PAGE 9.	1 EA.
20.	FIBERGLASS FRAME AND GRATE WITH NON-SKID SURFACE PER SAFE-17 SPAN NO. 1-6010	1 EA.
21.	2" D.I.P.	A/R
22.	ESSCO DUPLEX MODEL 4 X 12-TF. TORQUE FLOW, NON-CLOG SUBMERSIBLE DRY-PIT VORTEX PUMPS WITH 12" TORX RECESSED IMPELLER CAPABLE OF PASSING PIPE SIZE DIAMETER SOLIDS, WITH SPECIAL FIVE YEAR WARRANTY. ALSO INCLUDES: SPARE IMPELLER, MECHANICAL SEALS, IMPELLER BOLT AND WASHER PER PUMP. SUCTION LOCATION = 1, DISCHARGE LOCATION PER PLAN 2 EACH 25 H.P., 3/60/460V, 1750 RPM EXPLOSION PROOF MOTOR RATED TO DELIVER 130 G.P.M. AGAINST 137.4 FEET T.D.H. PER STAGE.	2 EA.
23.	LIFTING CABLE, STAINLESS STEEL 3/8" 6000 LB CAP.	A/R
24.	EYE BOLT FOR LIFTING CABLE, STAINLESS STEEL 1/4".	1 EA.
25.	AIR INJECTION MANIFOLD (SEE DETAIL ON PAGE 9) A. 3/4" BRASS/SS BALL VALVE B. 3/4" BRASS UNION C. 600 50TH FLOW METER, DOWSER RMB-57-SSV D. WILKINSON REGULATOR, 62C80 E. 3/4" COPPER TEE F. 3/4" COPPER TUBING AND FITTINGS G. 3/4" BRASS NIPPLES H. 3/4" BRASS UNION I. PRESSURE GAGE MARSHALLTOWN NO. J1448, OR EQUAL J. 3/4" X 1/2" TEE K. 3/4" COPPER 90 BEND L. 3/4" SCH 80 PVC	4 EA. 2 EA. 2 EA. 2 EA. 2 EA. 2 EA. 2 EA. 2 EA. 2 EA. 2 EA. 2 EA.
26.	26" X 26" X 8" CONCRETE PEDESTAL WITH #4 BARS 18" O.C. EA. WAY AND ANCHOR BOLTS TO PUMP MANUFACTURERS SPECIFICATIONS.	2 EA.
27.	LADDER RUNGS, MODEL PS-2, MA INDUSTRIES INC.	A/R
28.	L.A.C.S.D. 304 SS. PIPE SUPPORT FOR SLIDE RAIL TOP BRACKET SUPPORT PER DETAIL ON PAGE 13.	1 EA.
29.	2" P.V.C. SCH 80 CONDUIT SLEEVE FOR FACTORY CABLE.	A/R
30.	VAPORGUARD 300 WITH FIXTURE VNA W/200W PS-30 INCANDESCENT LAMP GROUSE-MINDS OR APPROVED EQUAL.	1 EA.
31.	SLUMP PUMP, ESSCO MODEL 252, SUBMERSIBLE NON-CLOG, 3" DIA. SOLIDS, 1 EA. HP EXPLOSION PROOF MOTOR, 3/60/460V, 1750 RPM, 30 GPM AGAINST 12' TDH.	1 EA.
32.	2" TEE AND PLUG	2 EA.
33.	2" UNION	1 EA.
34.	2" BRASS VALVE	2 EA.
35.	2" BRASS CLEANOUT	1 EA.
36.	4" FLANGED D.I. 1/4" LONG RADIUS BEND (90)	1 EA.
37.	WALL MOUNTED PIPE SUPPORT PER DETAIL ON PAGE 9.	2 EA.
38.	PRESSURE GAGE 1/4" BRASS WITH 2" DIAL 0-60 PSI, AND NEEDLE VALVE.	1 EA.
39.	ADJUSTABLE PIPE SADDLE SUPPORT, GRINNELL FIG. 264.	5 EA.
40.	US FOUNDARY DOUBLE DOOR ACCESS FRAME AND COVER, 60" X 60" W/SPRING ASSISTED LIFT COVERS AND FRAME WITH LATCH AND LOCK KEYS TO L.A.C.S.D. SHALL BE RATED FOR M-20 LOADING, MODEL AND.	1 EA.
41.	4" DIA. FLEXIBLE COUPLING, DRESSER MANUF., STYLE 38 (C.I.P.) WITH STAINLESS STEEL BOLTS OR APPROVED EQUAL.	1 EA.
42.	"BEECO" (HERSEY PRODUCTS) MODEL FRP 2" BACKFLOW PREVENTER ASSEMBLY, INCLUDING ALL REDD VALVES, NIPPLES, AND MOUNTING BRACKETS, PAGE 9	1 EA.
43.	3/4" HOSE BIB, CHAMPION BRASS MFG. PAGE 9	1 EA.
44.	MCMASTER CARR CAT. 94 PG. 109 #2093 K12 1/3 H.P., 120 VOLTS, 60 CYCLE, 1725 R.P.M. EXPLOSION PROOF, OR APPROVED EQUAL.	1 EA.
45.	PLUG-IN LIMIT SWITCH NO. 8027-15P SERIES F PER ALLEN BRADLEY, OR APPROVED EQUAL.	2 EA.
46.	JOHNSON CONTROLS INC. TYPE F 62MA AIRFLOW CONTROL	1 EA.
47.	6" DIA. GALVANIZED STEEL PIPE WITH MUSHROOM TYPE HOOD INLET.	LENGTH A/R
48.	6" DIA. P.V.C. (SCH 80) AND FITTINGS.	LENGTH A/R
49.	ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED.	



LDC LAND DESIGN CONSULTANTS, INC.
Land Planning, Civil Engineering & Environmental Services
225 South Lake Avenue, Suite 600
Pasadena, CA 91101
(626) 578-7000

95017-017
Project No.

DEPARTMENT OF PUBLIC WORKS, L.A. COUNTY

CHECKED: *J. DeLeon* DATE: 2/22/01

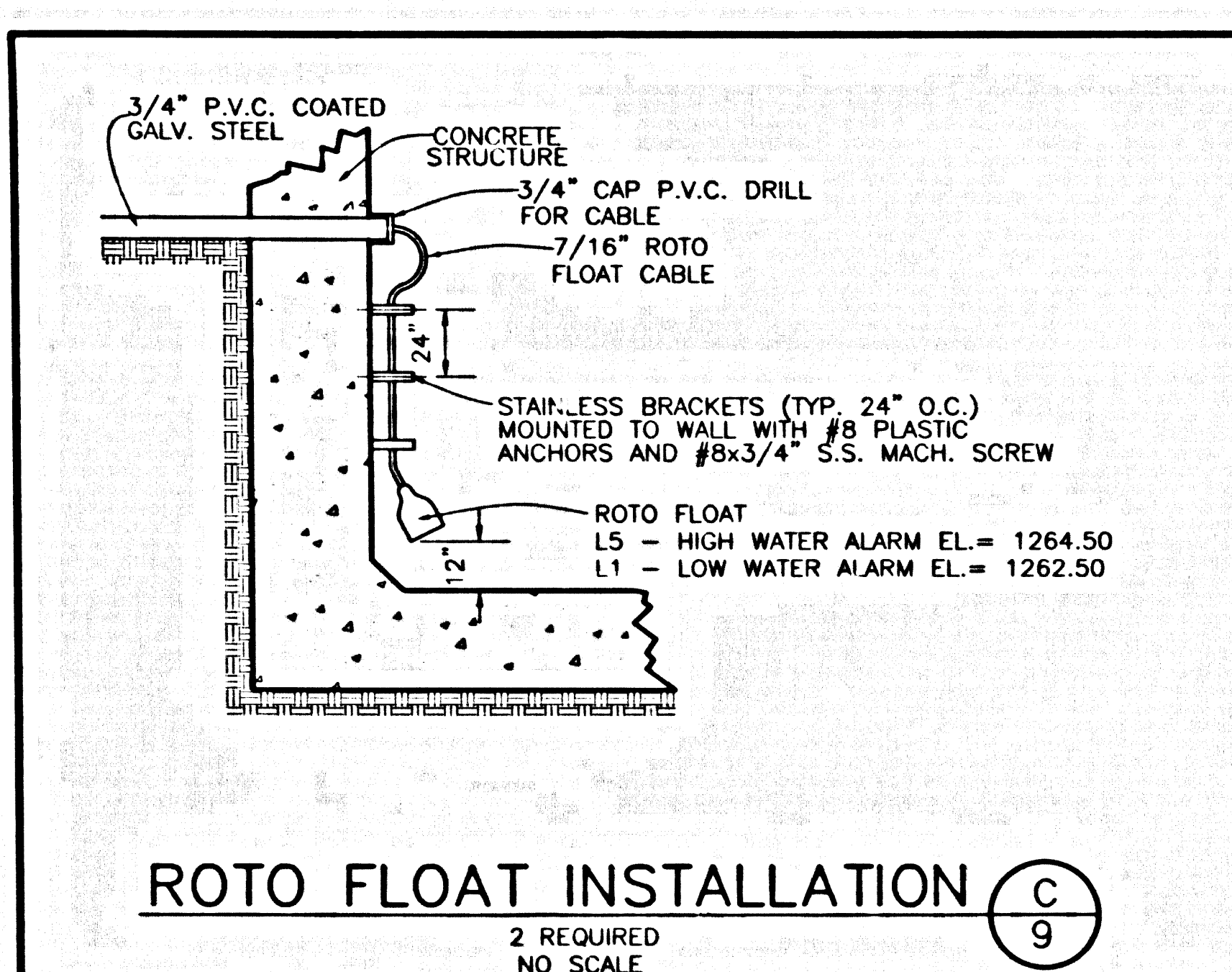
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WATERWORK & SEWER MAINT. DIVISION

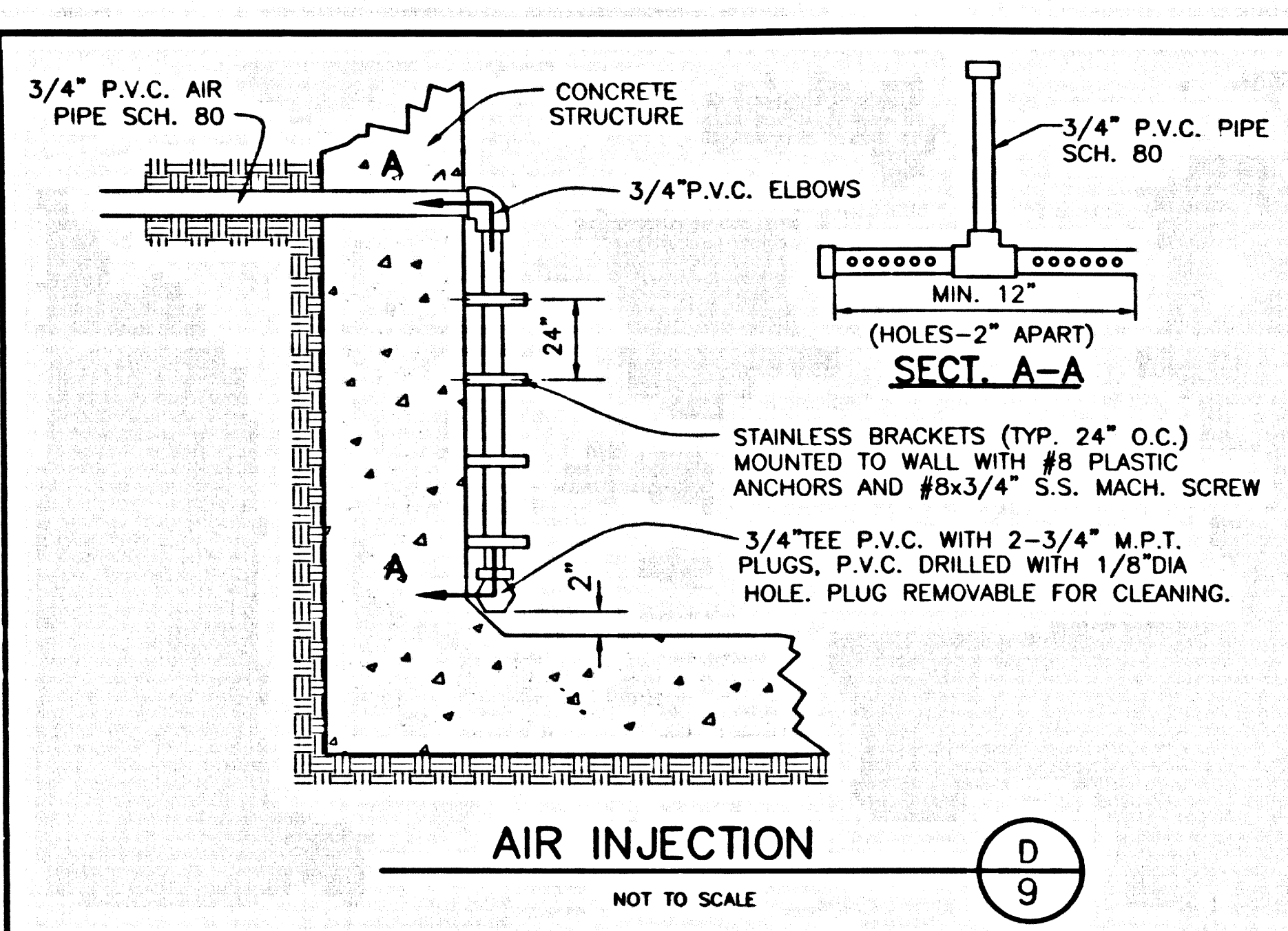
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COUNTY OF LOS ANGELES
SEWER LIFT STATION

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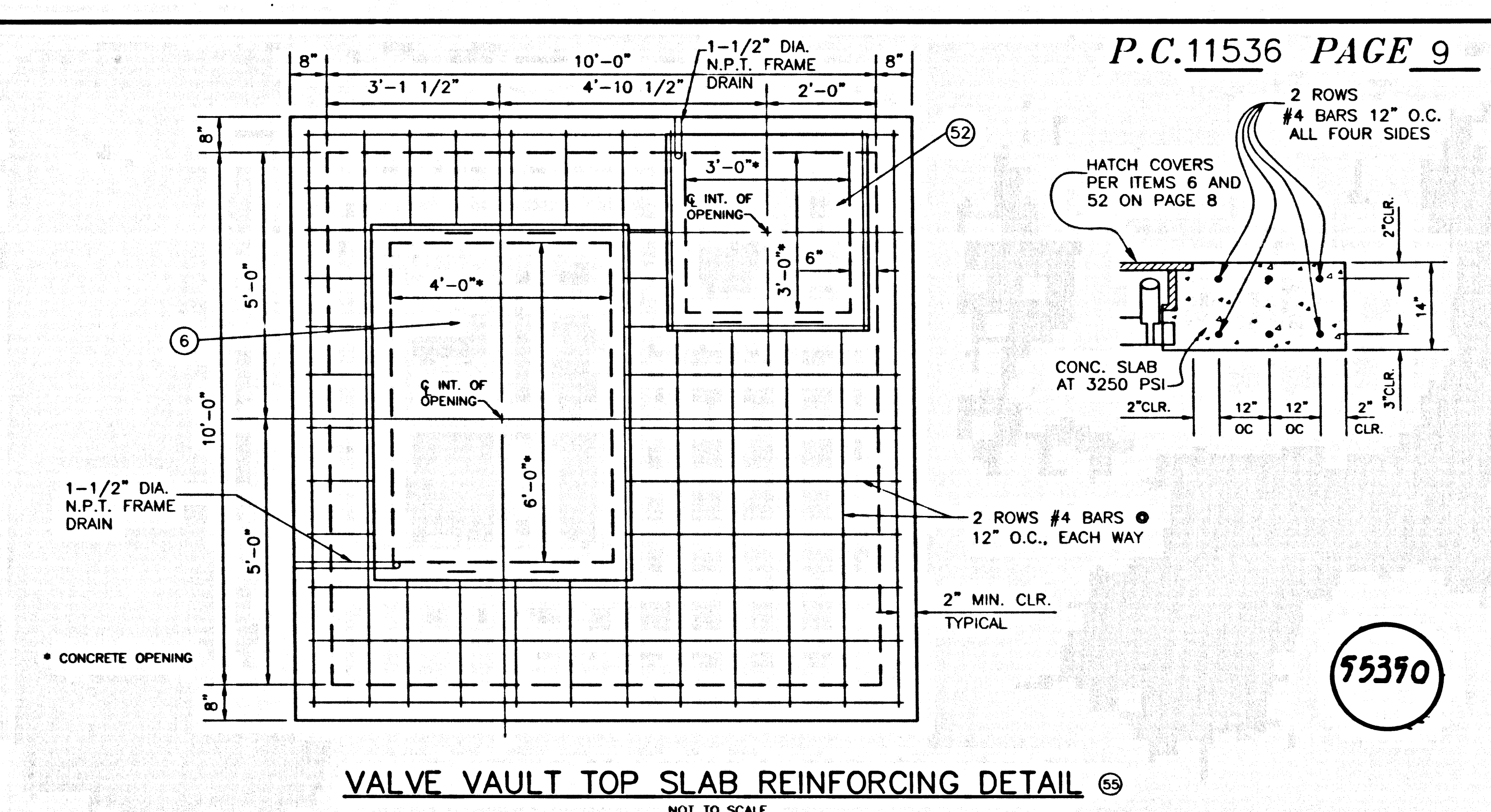
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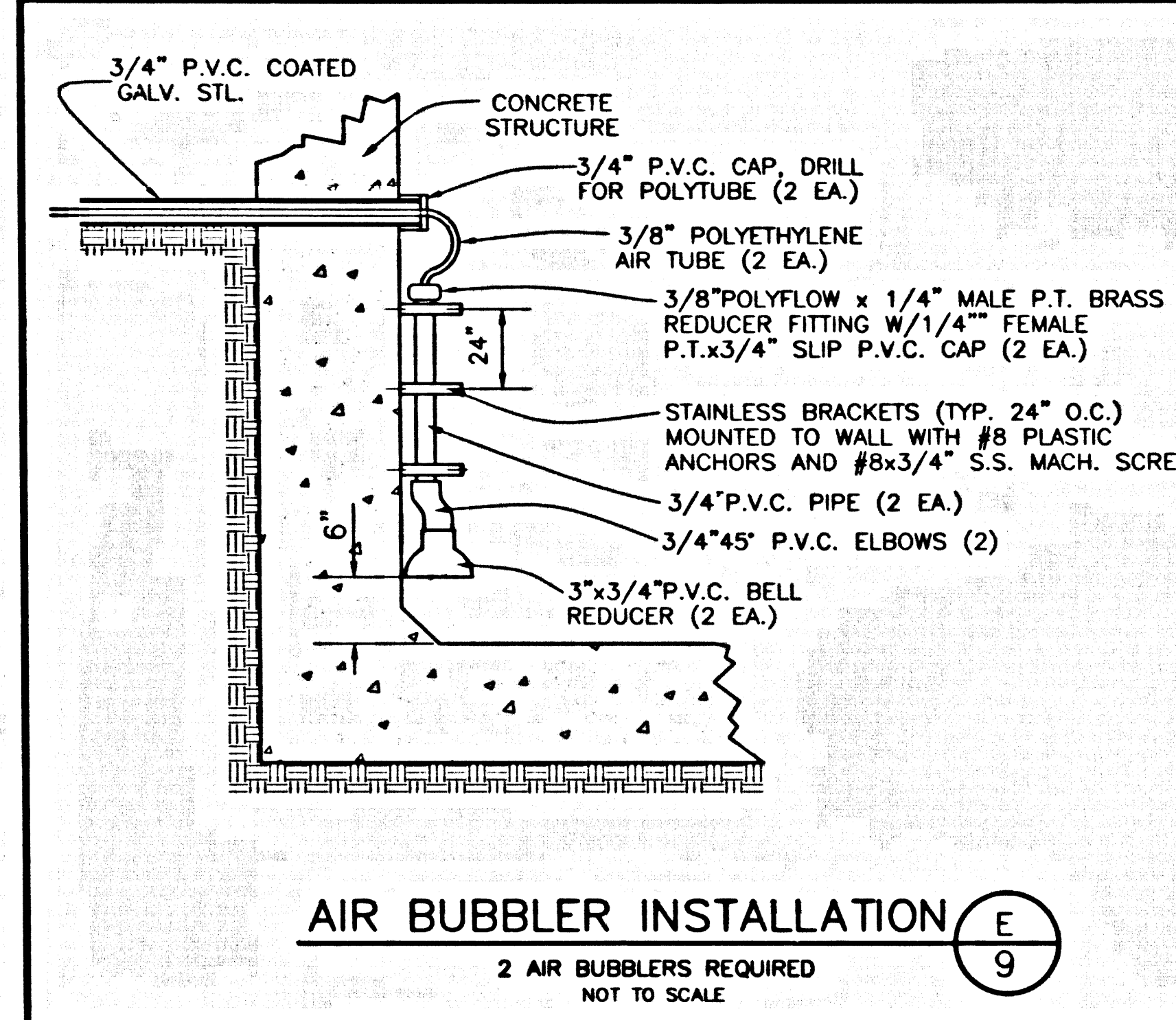
ROTO FLOAT INSTALLATION (C)
2 REQUIRED
NO SCALE



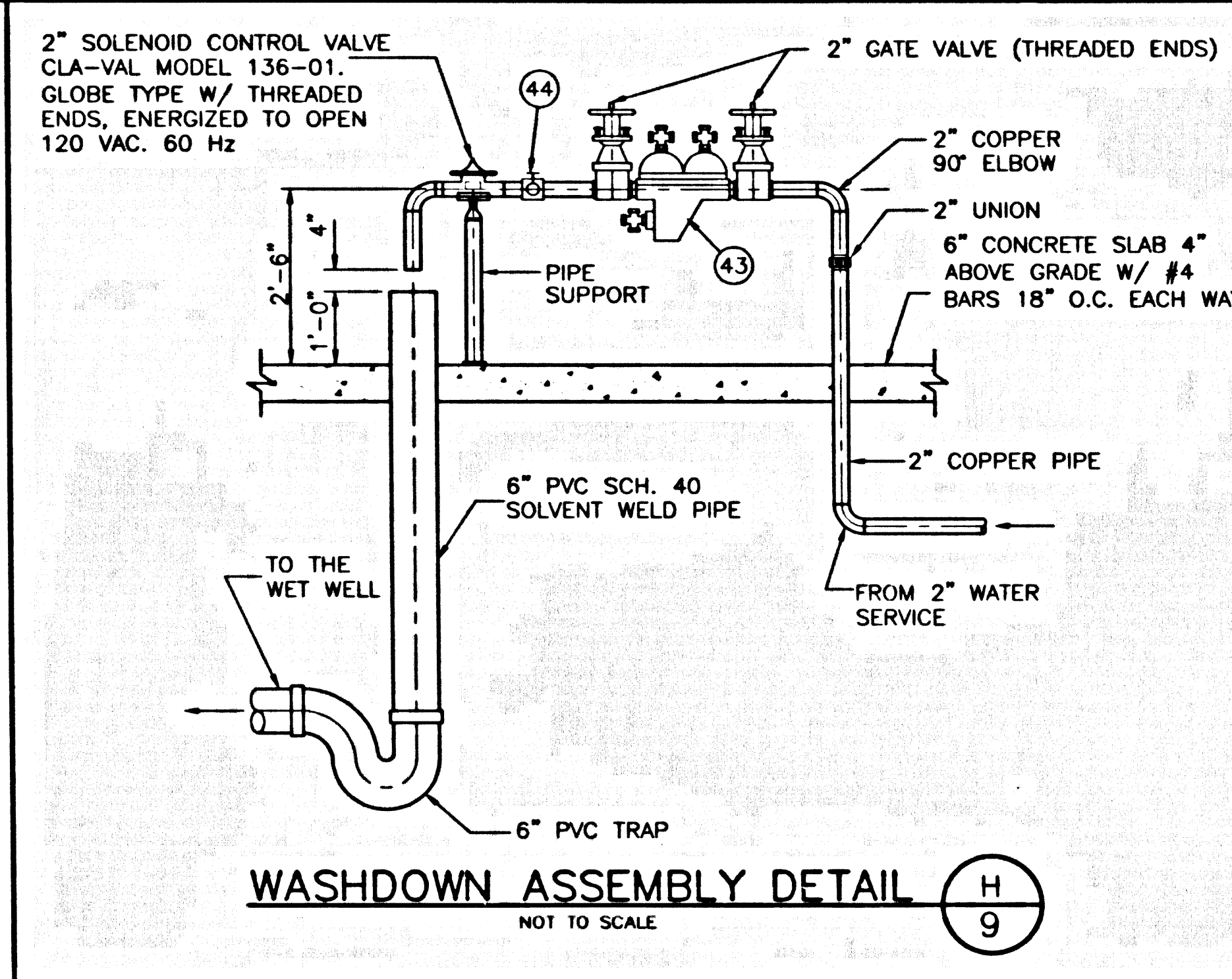
AIR INJECTION (D)
NOT TO SCALE



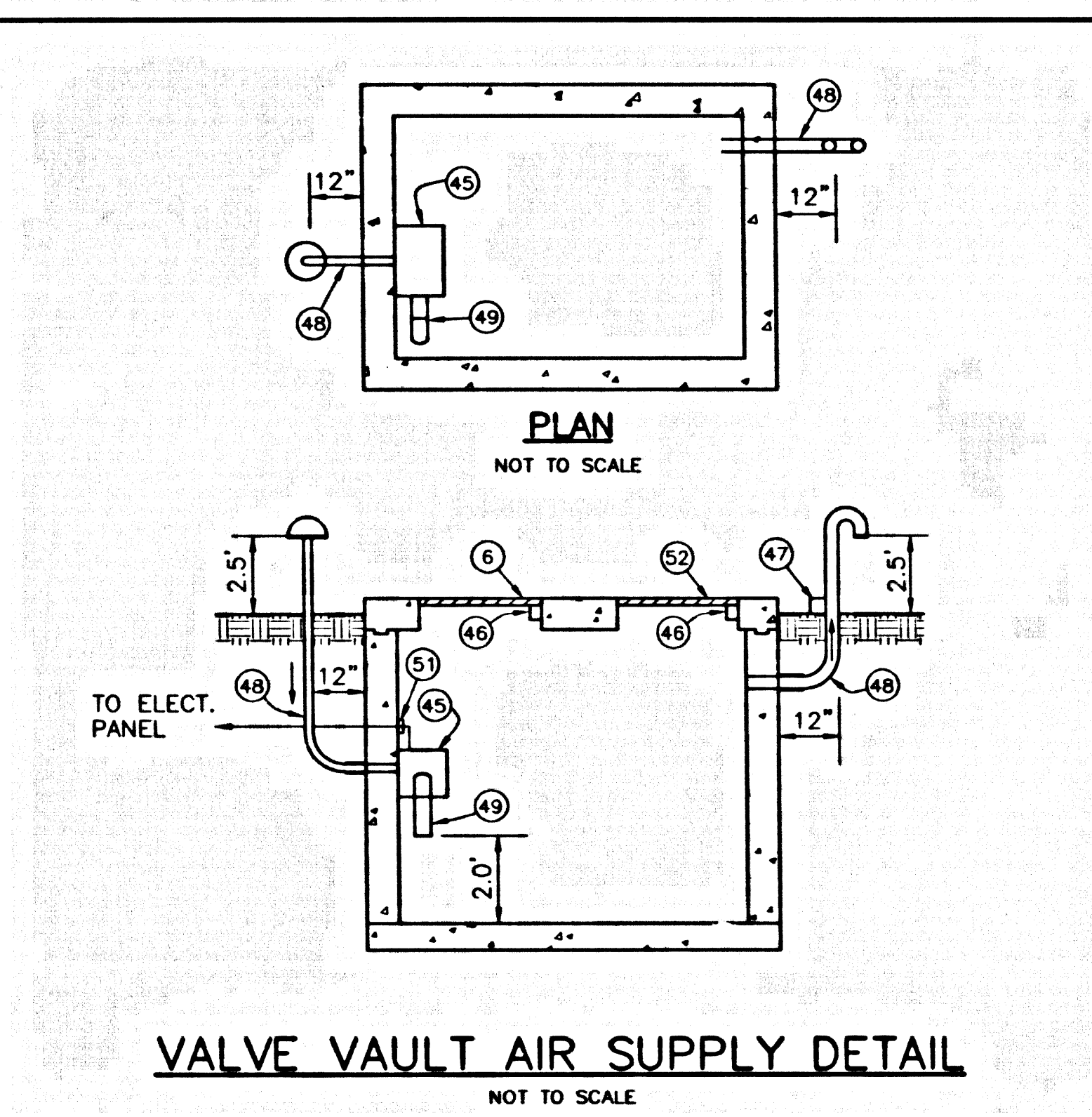
VALVE VAULT TOP SLAB REINFORCING DETAIL (E)
NOT TO SCALE



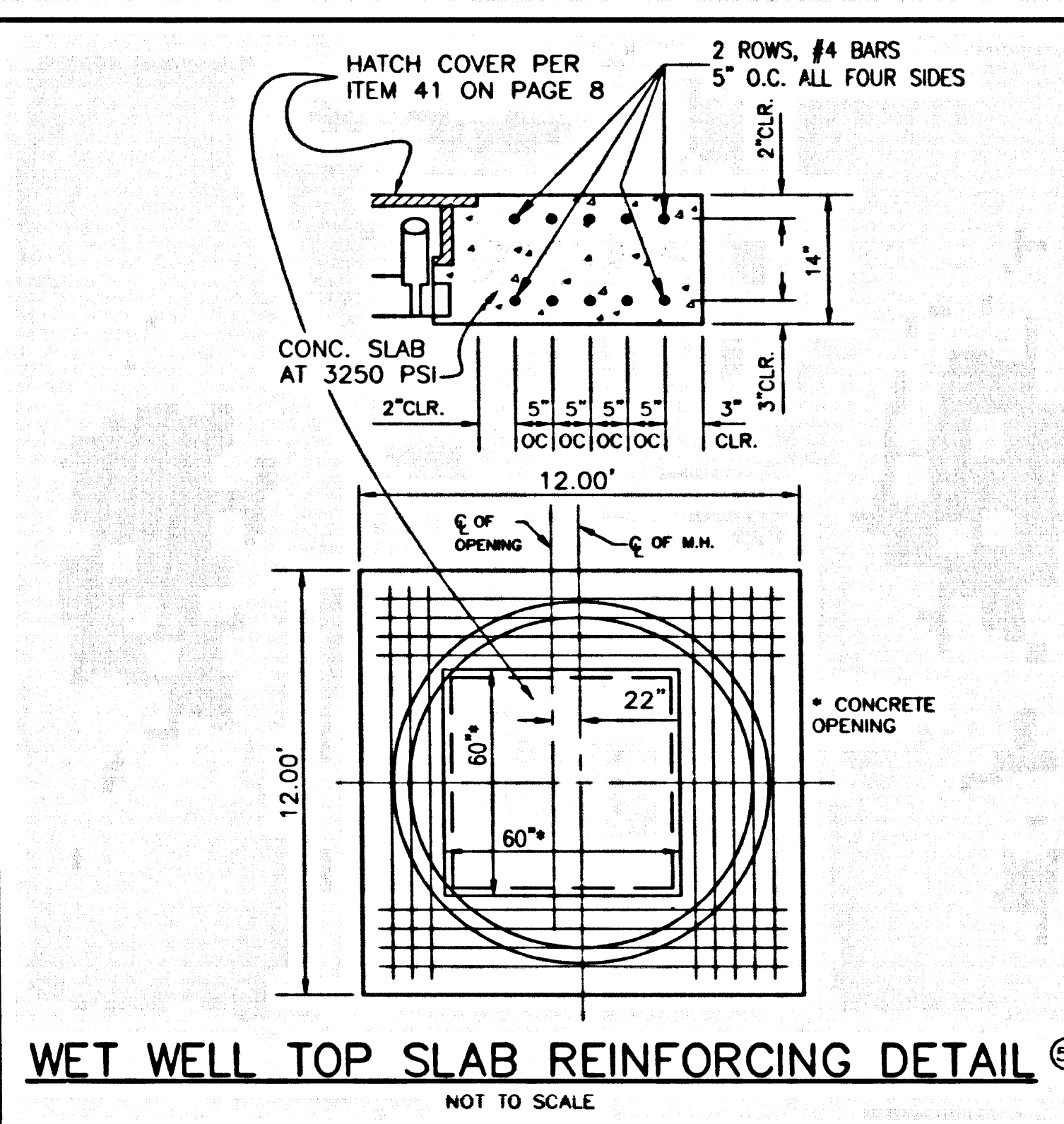
AIR BUBBLER INSTALLATION (E)
2 AIR BUBBLERS REQUIRED
NOT TO SCALE



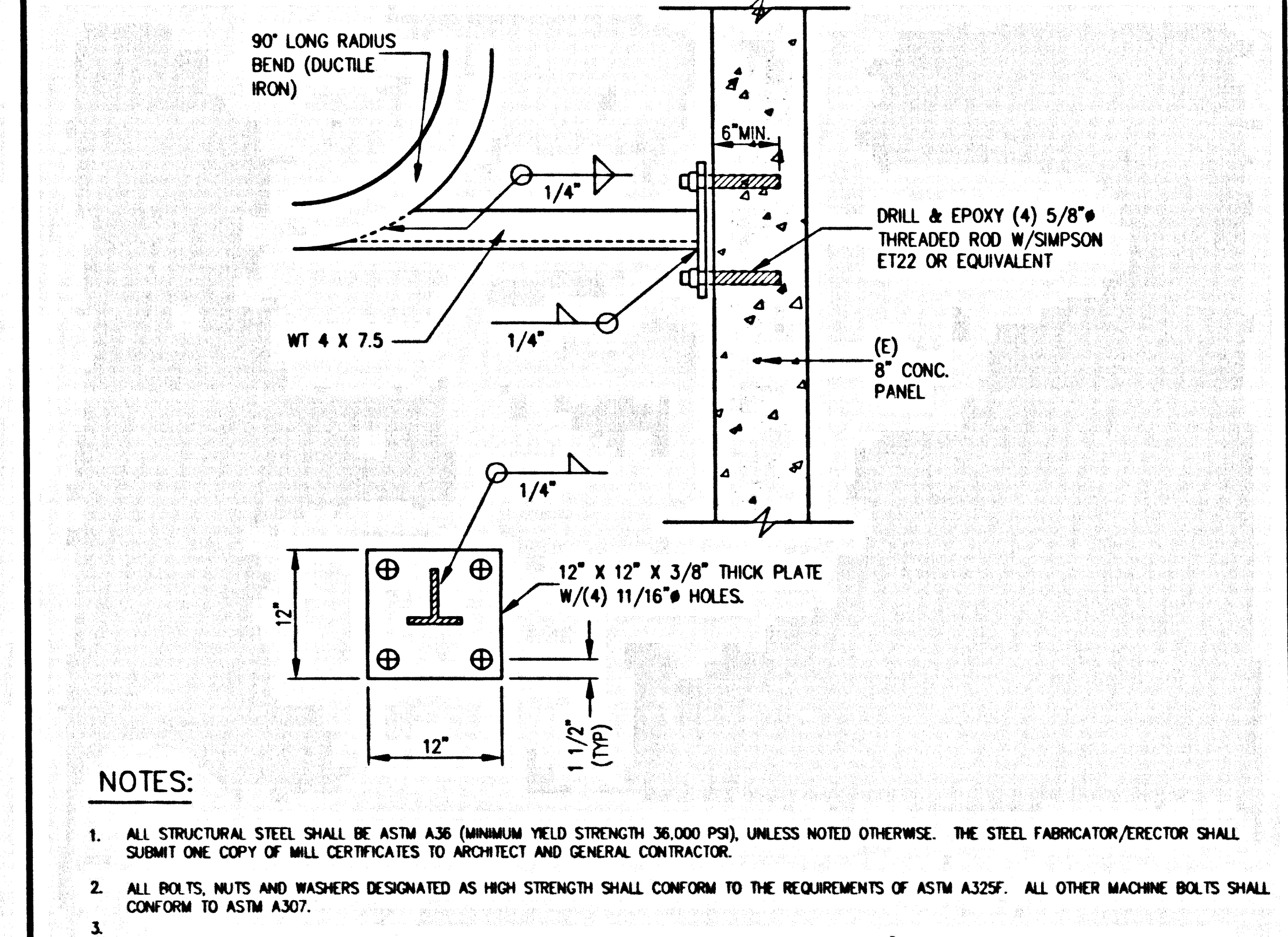
WASHDOWN ASSEMBLY DETAIL (H)
NOT TO SCALE



VALVE VAULT AIR SUPPLY DETAIL
NOT TO SCALE

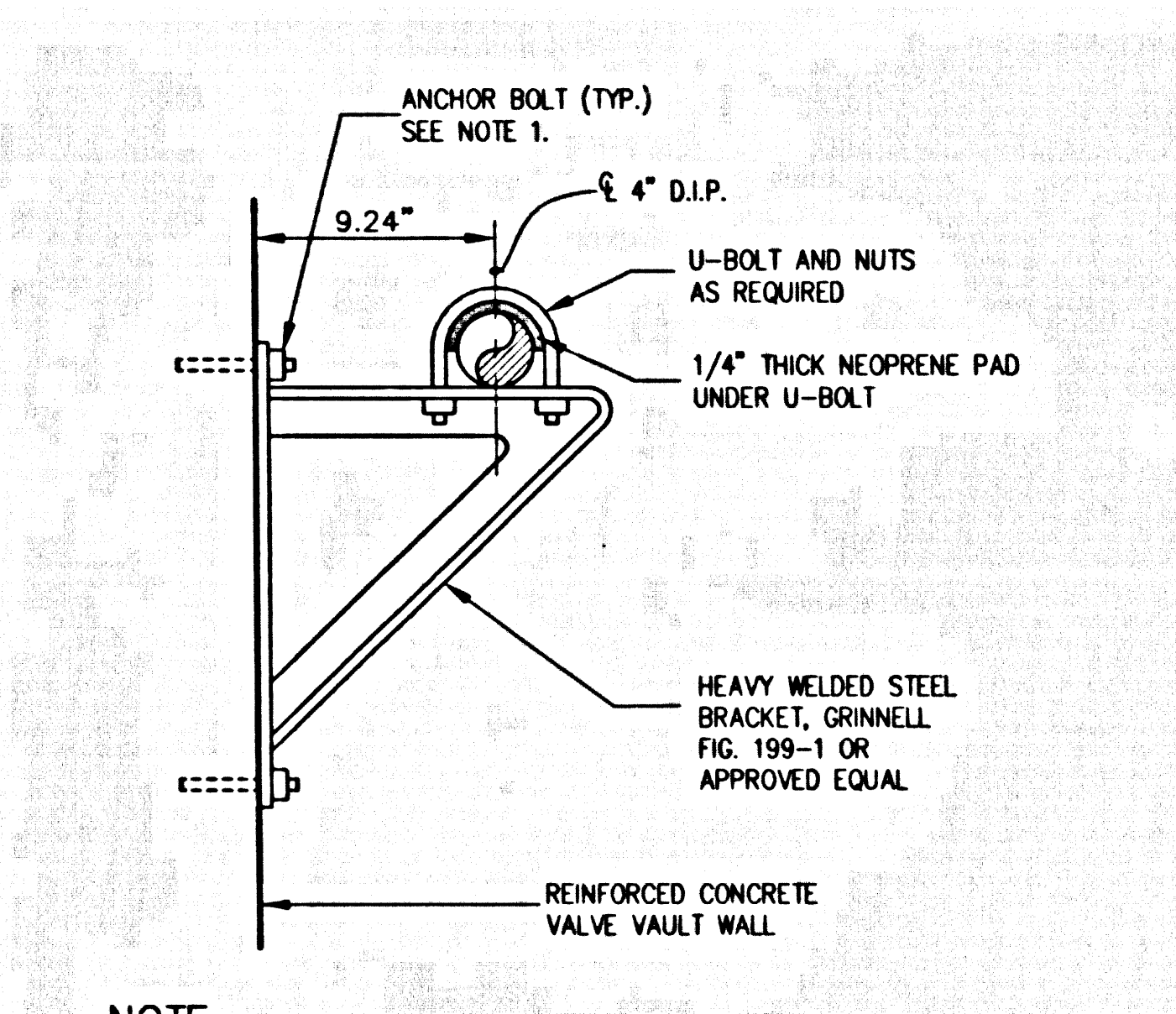


WET WELL TOP SLAB REINFORCING DETAIL (G)
NOT TO SCALE



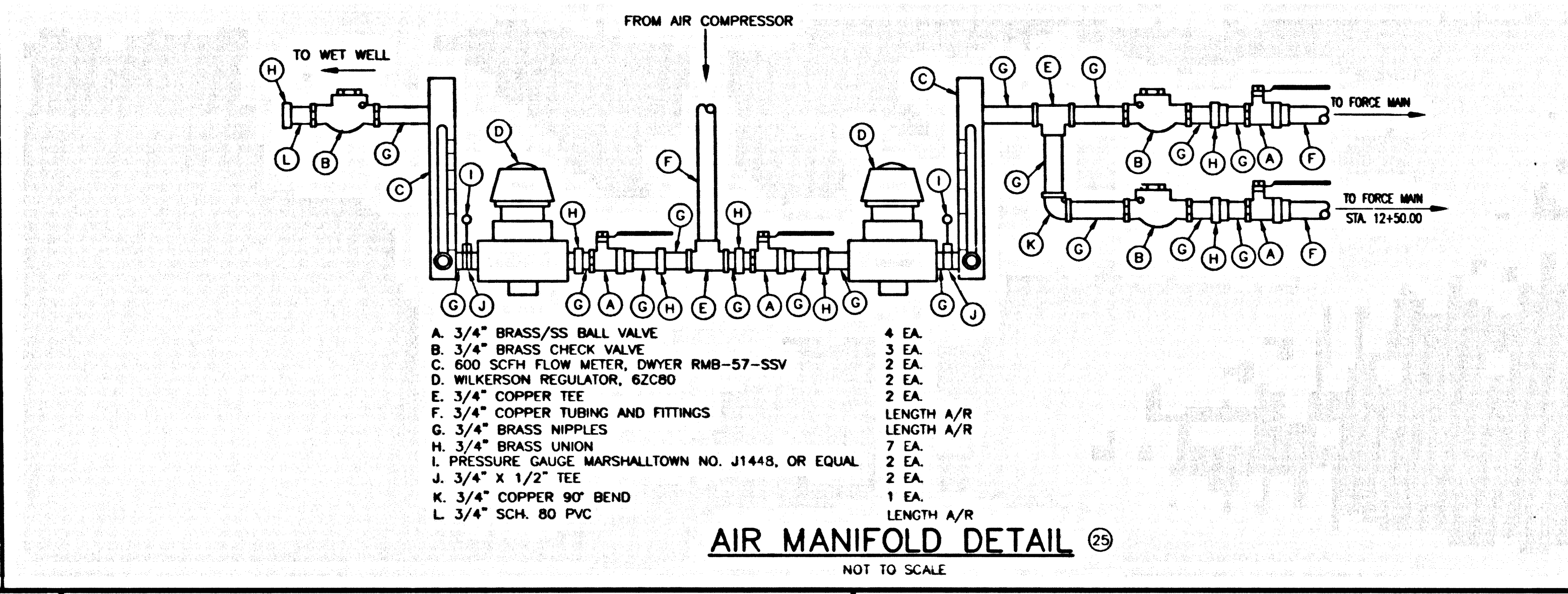
THRUST BRACE DETAIL (I)
NOT TO SCALE

- NOTES:**
1. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (MINIMUM YIELD STRENGTH 36,000 PSI), UNLESS NOTED OTHERWISE. THE STEEL FABRICATOR/ERECTOR SHALL SUBMIT ONE COPY OF MILL CERTIFICATES TO ARCHITECT AND GENERAL CONTRACTOR.
 2. ALL BOLTS, NUTS AND WASHERS DESIGNATED AS HIGH STRENGTH SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. ALL OTHER MACHINE BOLTS SHALL CONFORM TO ASTM A307.
 3. ALL WELDING SHALL BE PERFORMED BY QUALIFIED CERTIFIED WELDERS AND SHALL CONFORM TO THE AWS CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION "LATEST EDITION".
 4. ALL WELDING ELECTRODES SHALL BE E70XX.
 5. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS, USING NOT LESS THAN THE MINIMUM SIZE BASED ON THICKNESS OF THINNER PART JOINED PER AWS/AWS, AND IN NO CASE LESS THAN 1/4".



WALL MOUNTED PIPE SUPPORT (J)
NOT TO SCALE

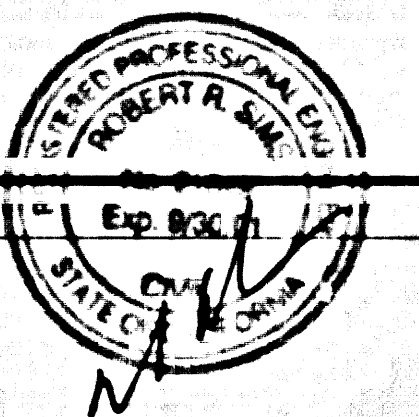
- NOTE:**
1. ANCHOR BOLTS SHALL BE 5/8\"/>



AIR MANIFOLD DETAIL (K)
NOT TO SCALE

- A. 3/4\"/> 4 EA.
- B. 3/4\"/> 3 EA.
- C. 600 SCFH FLOW METER, DWYER RMB-57-SSV 2 EA.
- D. WILKINSON REGULATOR, 62080 2 EA.
- E. 3/4\"/> 2 EA.
- F. 3/4\"/> LENGTH A/R
- G. 3/4\"/> LENGTH A/R
- H. 3/4\"/> 7 EA.
- I. PRESSURE GAUGE, MARSHALLTOWN NO. J144S, OR EQUAL 2 EA.
- J. 3/4\"/> 2 EA.
- K. 3/4\"/> 1 EA.
- L. 3/4\"/> 2 EA.

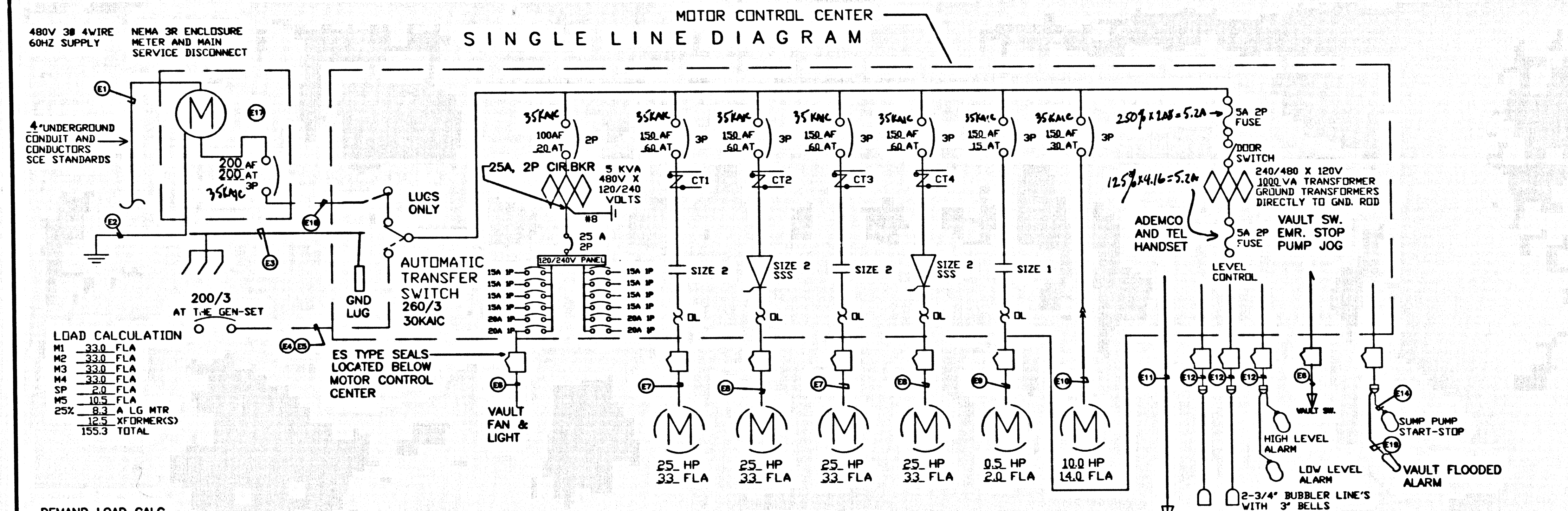
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Land Planning, Civil Engineering & Environmental Services
225 South Lake Avenue, Suite 600
Pasadena, Ca 91101
(626) 578-7000



DEPARTMENT OF PUBLIC WORKS, L.A. COUNTY
CHECKED: *JAS* DATE: 2/22/01
DESIGNER: *JAS*
REVIEWED FOR MAINTENANCE: *...* DATE: 2/22/01
WATERWORK & SEWER MAINT. DIVISION

TRACT NO. 52302
COUNTY OF LOS ANGELES
SEWER LIFT STATION
DETAILS

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2025.09.12



LOAD CALCULATION AT 1-Ø GEN-SET

M1	33.0 FLA
M2	33.0 FLA
M3	2.0 FLA
M4	10.5 FLA
M5	10.5 FLA
XPMS	12.5 FLA
TOTAL	91.0 FLA
OR 76KVA @ 480volts, THREE PHASE	

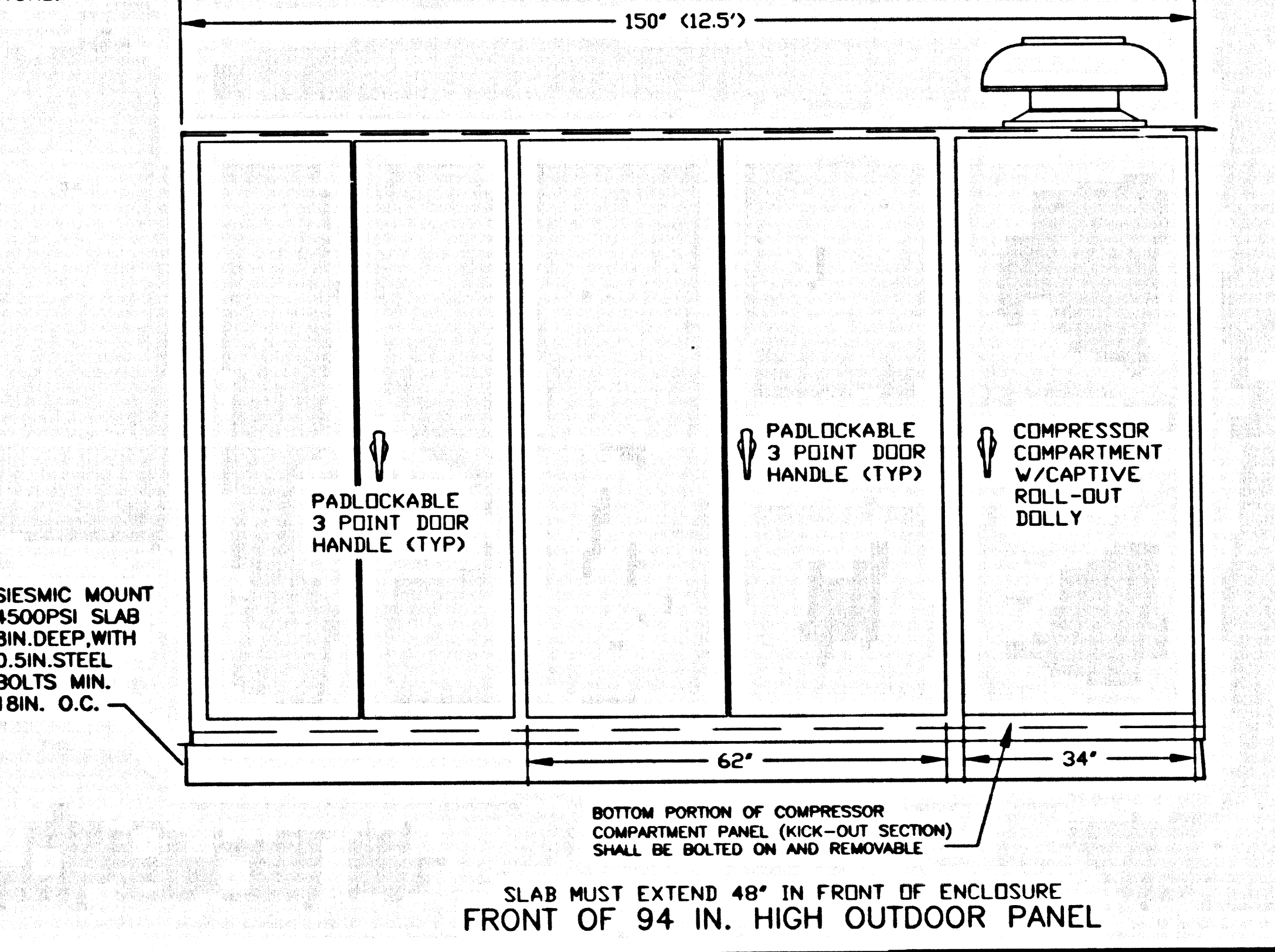
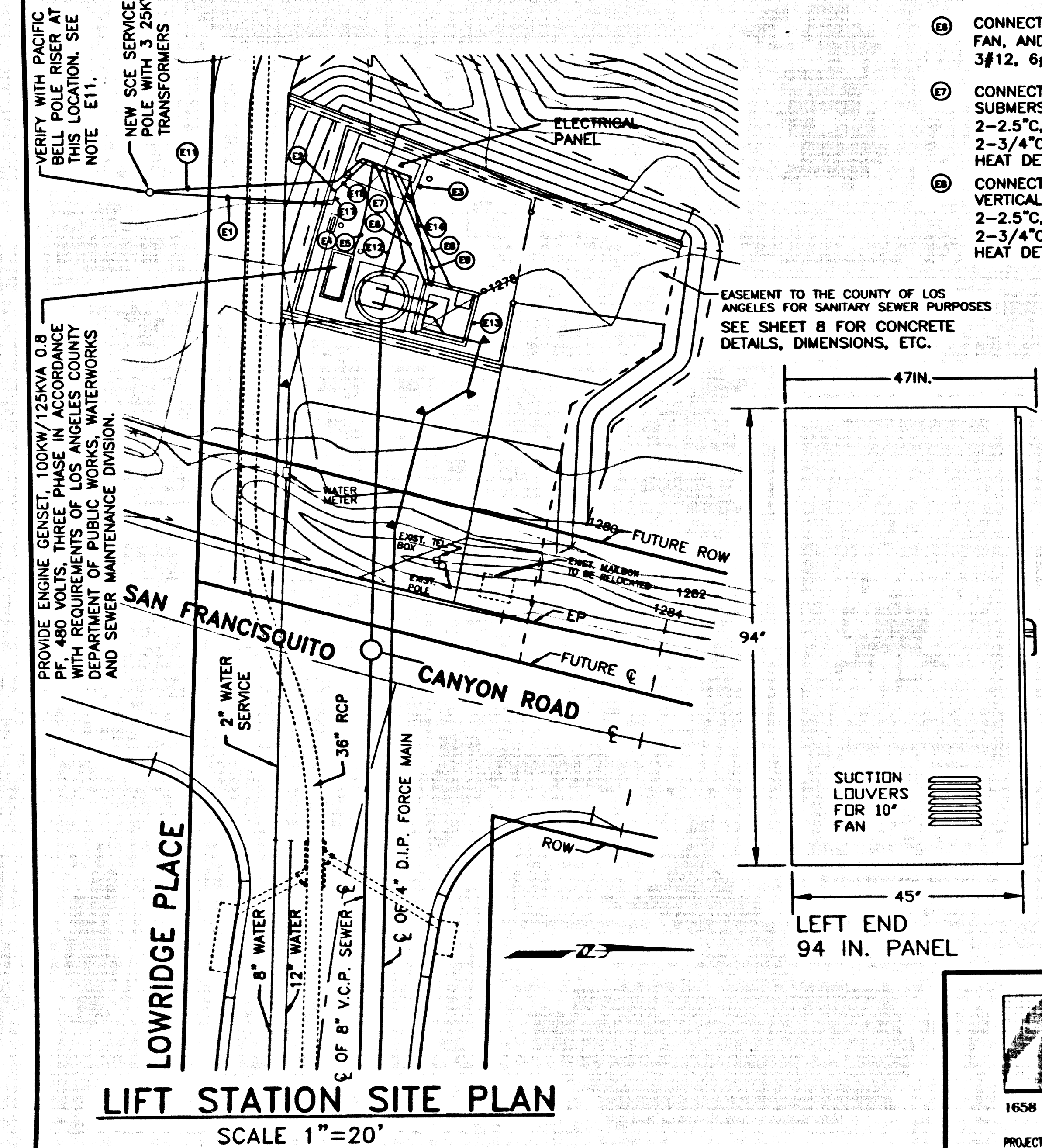
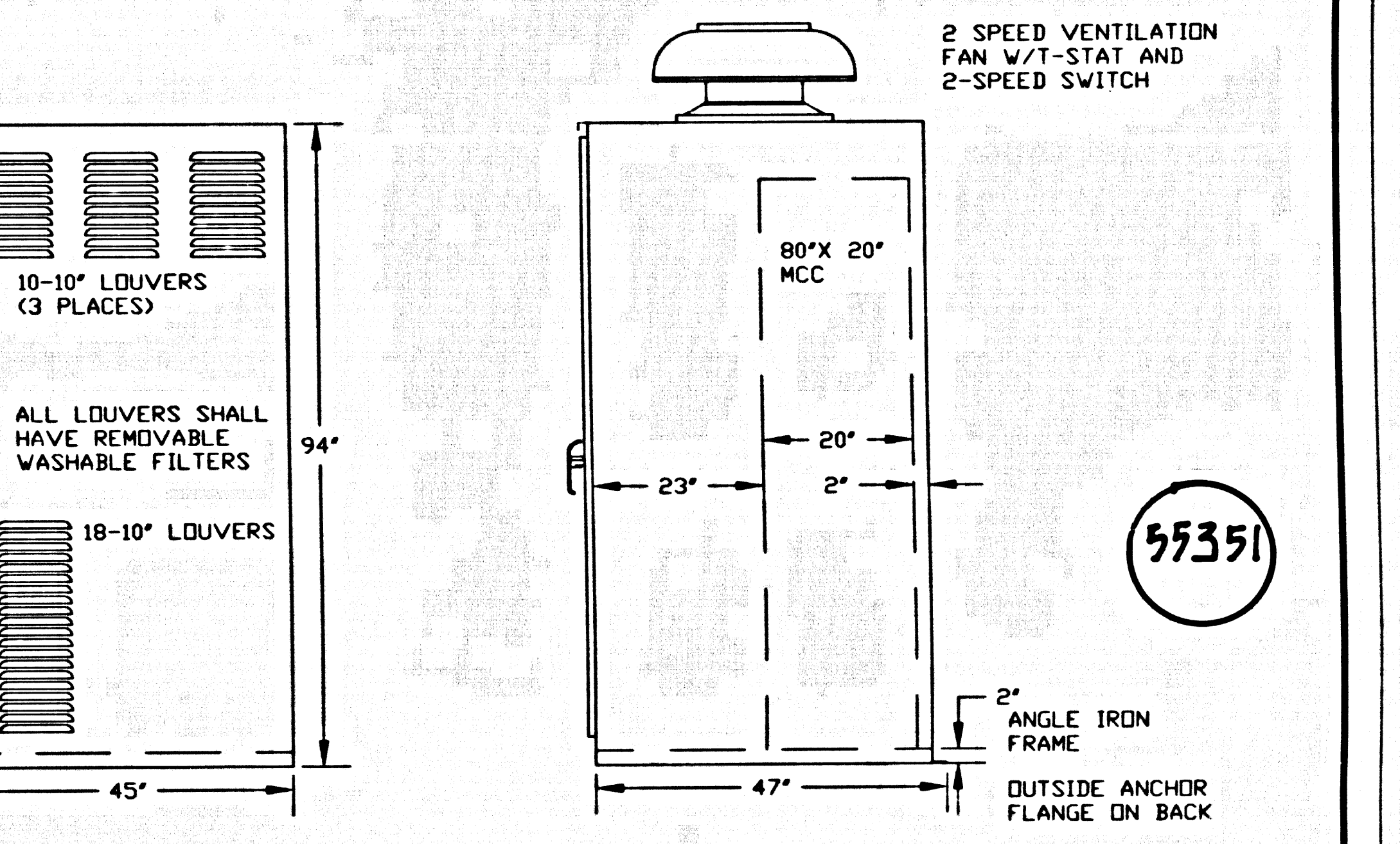
DEMAND LOAD CALC.

M1	33.0 FLA
M2	33.0 FLA
M3	2.0 FLA
M4	10.5 FLA
M5	10.5 FLA
XPMS	12.5 FLA
TOTAL	91.0 FLA
OR 76KVA @ 480volts, THREE PHASE	

- 11 CONNECT WALLMOUNT NEMA 3R METER-MAIN COMBINATION BOX PER SCE REQUIREMENTS FOR 200A, 277/480V, 3 PHASE, 4 WIRE WITH GE TYPE SFM MAIN 200/3 CIR.BKR. RATED 35 KAC.
- 12 CONNECT MOTOR CONTROL CENTER WITH WITH 2.5°C, 4#4/O.
- 13 CONNECT VAULT FLOOD FLOAT SWITCH WITH FACTORY BONDED 2#14 CABLE TO INTRINSICALLY SAFE RELAY.

ELECTRICAL NOTES

- 14 4 IN. C. WIRE BY S.C.E. FROM METER AND UP POLE. VERIFY WITH JOE MONTOYA, 661-257-8276, S.C.E. PLANNER.
- 15 CONNECT GROUND ROD, 3/4 IN. X 10 FT, ENCASED IN CONCRETE PAD PER NEC 250-81 (c).
- 16 MAKE SECOND GROUND WITH 25 FT. #2 WITH GE TYPE SFM MAIN 200/3 CIR.BKR. RATED 35 KAC.
- 17 CONNECT GENSET POWER WITH 2.5C, 4#4/O.
- 18 CONNECT GENSET CONTROLS, HEATER, BATT. CHARGER, START-STOP, ETC., WITH 1.0°C, 3#12, 4#14, AND 1#12 GND.
- 19 CONNECT VAULT LIGHT, LIGHT SWITCH, VAULT FAN, AND 2 PUMP STOP&JOG, WITH 1.0°C, 3#12, 6#14, AND 1#12 GND.
- 20 CONNECT FACTORY BONDED CABLES FROM 2 SUBMERSIBLE PUMPS M1A AND M2A WITH 2-2.5°C, EACH WITH 3#4 & 1#4 GND, & 2-3/4°C, EACH WITH 5#18. FOR LEAKS AND HEAT DETECTORS.
- 21 CONNECT FACTORY BONDED CABLES FROM 2 VERTICAL PUMPS M1B AND M2B WITH 2-2.5°C, EACH WITH 3#4 & 1#4 GND, & 2-3/4°C, EACH WITH 5#18. FOR LEAKS AND HEAT DETECTORS.
- 22 CONNECT SUMP PUMP WITH 1 IN. C. 3#12 & 1#12 GND., BONDED FACTORY CABLES. ALL PUMPS LOCK-OFF IN PANEL.
- 23 CONNECT AIR COMP. INSIDE PANEL, 3/4 C, 3#12 AND 1#12GND.
- 24 EXTEND 2 IN. C.O. TO PACIFIC BELL POLE, 4#4 UP. VERIFY WITH PLANNER AT 661-252-0107.
- 25 CONNECT INTRINSICALLY SAFE HIGH & LOW ALARM FLOATS WITH 2 BONDED FACTORY CABLES IN 2 SETS OF 3/4", EACH WITH 3#14, AND 2 AIR LINES IN 3/4" PVC JACKETED STEEL CONDUIT.
- 26 CONNECT SERIES WIRED NC INTRUSION SWITCHES WITH 3/4 IN. C. 2#14.
- 27 CONNECT INTRINSICALLY SAFE SUMP PUMP FLOAT SWITCH WITH BONDED FACTORY CABLE, 3/4 IN. C. 2#14.
- 28 ALL CONDUCTORS 99% COPPER. ALL WORK PER CODES AND AUTHORITIES HAVING JURISDICTION.
- 29 BEFORE ORDERING MATERIALS AND EQUIPMENT, SUBMIT 6 COPIES OF SHOP DRAWINGS OF ESSCO OR EQUAL WITH TELEMETRY, ETC., PER L.A. COUNTY STANDARDS.



MCC PANEL INTERIOR

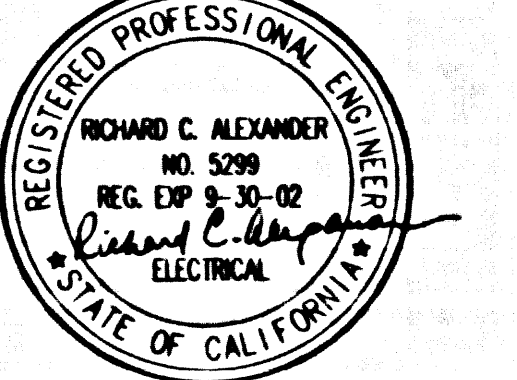
MAIN LUGS		480V 3PH 4W 60HZ 25K AIC TIN PLATED COPPER BUS	
SIZE 1	SIZE 2	SIZE 2	SIZE 2
5 HP 2.0A	25 HP 33A	25 HP 33A	25 HP 33A
SPACE	SPACE	SPACE	SPACE
12 CIRCUIT DIST. PANEL			
260A ASCO ATS	5 KVA XFMR	ASTAT SIZE 2 25 HP 33A SSSTARTER	ASTAT SIZE 2 25 HP 33A SSSTARTER
SPACE FOR ES TYPE SEAL-OFFS IN WIREWAY		FULL PANEL AND DOR STANDARD 8" SET-BACK	
20"		20"	
20"		20"	
20"		24"	

NOTE !!!
THE AIR COMPRESSOR SHALL BE MOUNTED ON A FOUR WHEEL DOLLY. ALL WHEELS SHALL BE RIDGED TYPE. AT LEAST TWO WHEELS SHALL ROLL IN A CAPTIVE CHANNEL TO RESTRAIN THE MOVEMENT OF THE DOLLY AND COMPRESSOR. THE CHANNELS SHALL BE SECURELY ANCHORED TO THE CONCRETE SLAB TOTALLY WITHIN THE ENCLOSURE. SHOP DRAWINGS SHALL BE SUBMITTED BEFORE THE DOLLY SYSTEM IS FABRICATED IF SUPPLIED BY ANY ONE OTHER THAN ESSCO PUMPS AND CONTROLS.

NOTE !!!
CONCRETE SLAB MUST EXTEND AT LEAST (4) FOUR FEET OUT IN FRONT OF THE ENCLOSURE. THE SLAB SHALL BE FLAT & LEVEL UNDER THE ENCLOSURE. THE FOUR FOOT SECTION OF THE SLAB SHALL SLOPE AWAY FROM THE ENCLOSURE AT 1/2" PER FOOT WITH NO "BIRDBATHS". ALL ENCLOSURES AND COMPONENTS SHALL BE UL LISTED.

LIFT STATION SITE PLAN
SCALE 1"=20'

DW CONSULTANTS INCORPORATED
LIGHTING DESIGN - ELECTRICAL ENGINEERING
1608 WEST ORND WAY, ANAHEIM, CA 92802 714-636-4585
PROJECT NUMBER - 201 MODIFIED - 11-08-2000



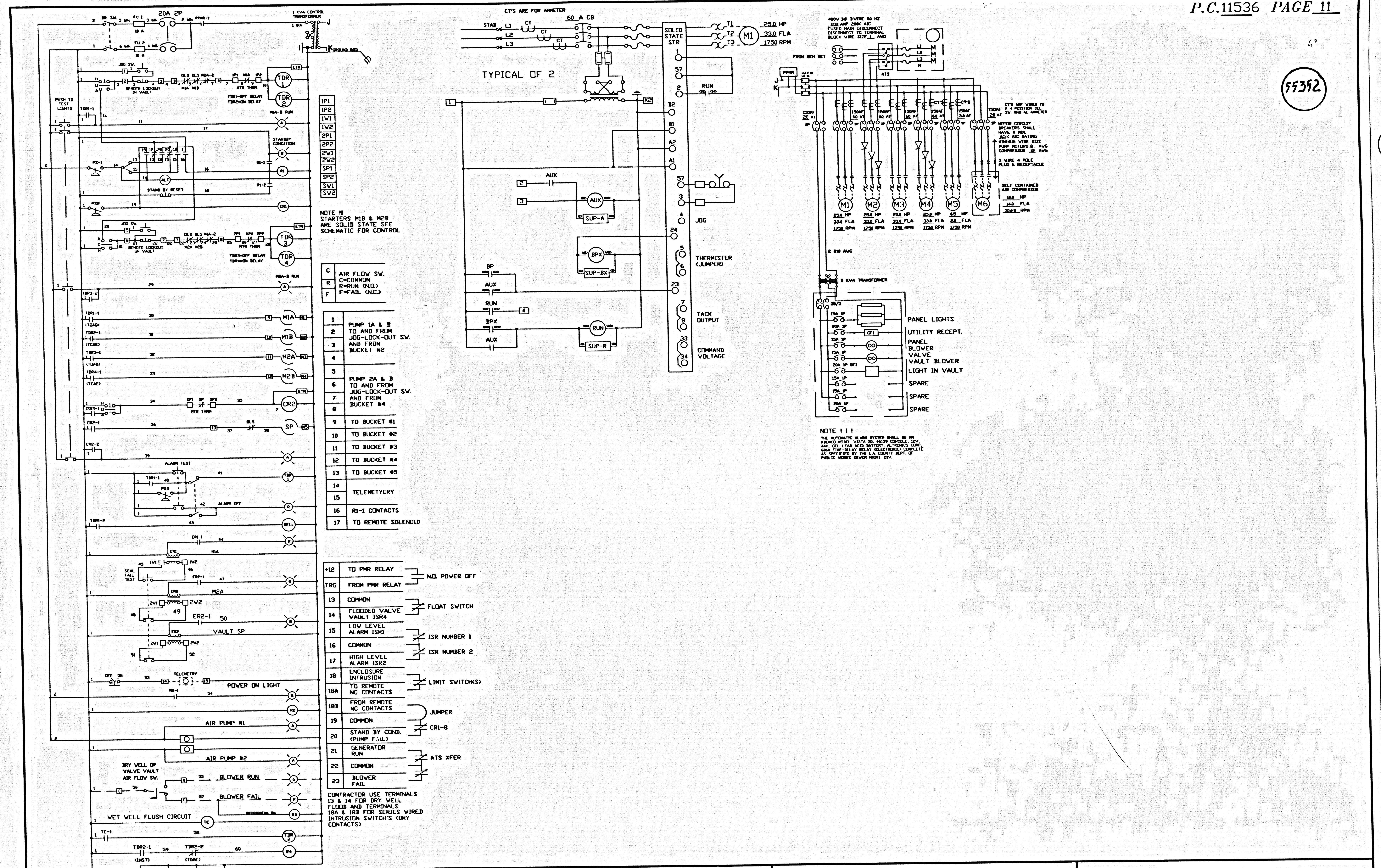
DEPARTMENT OF PUBLIC WORKS, L.A. COUNTY
CHECKED: *JAE* DESIGN DIVISION DATE: 2/22/01
REVIEWED FOR MAINTENANCE: *Mark Rodriguez* WATERWORK & SEWER MAINT. DIVISION DATE: 2/23/01

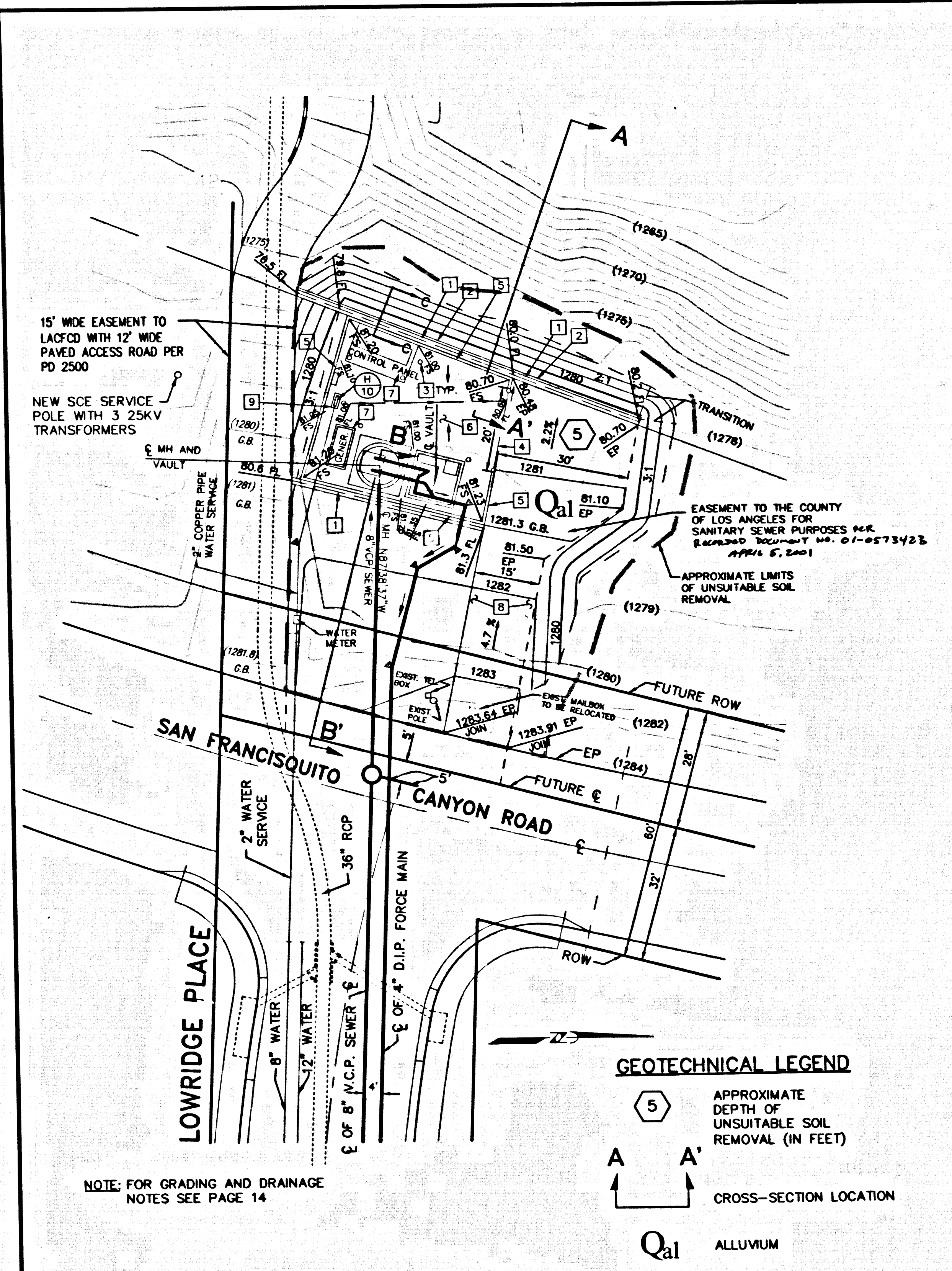
TRACT NO. 52302
COUNTY OF LOS ANGELES
ELECTRICAL FOR SEWER LIFT STATION

TRACT NO. 52302 .PT

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55392

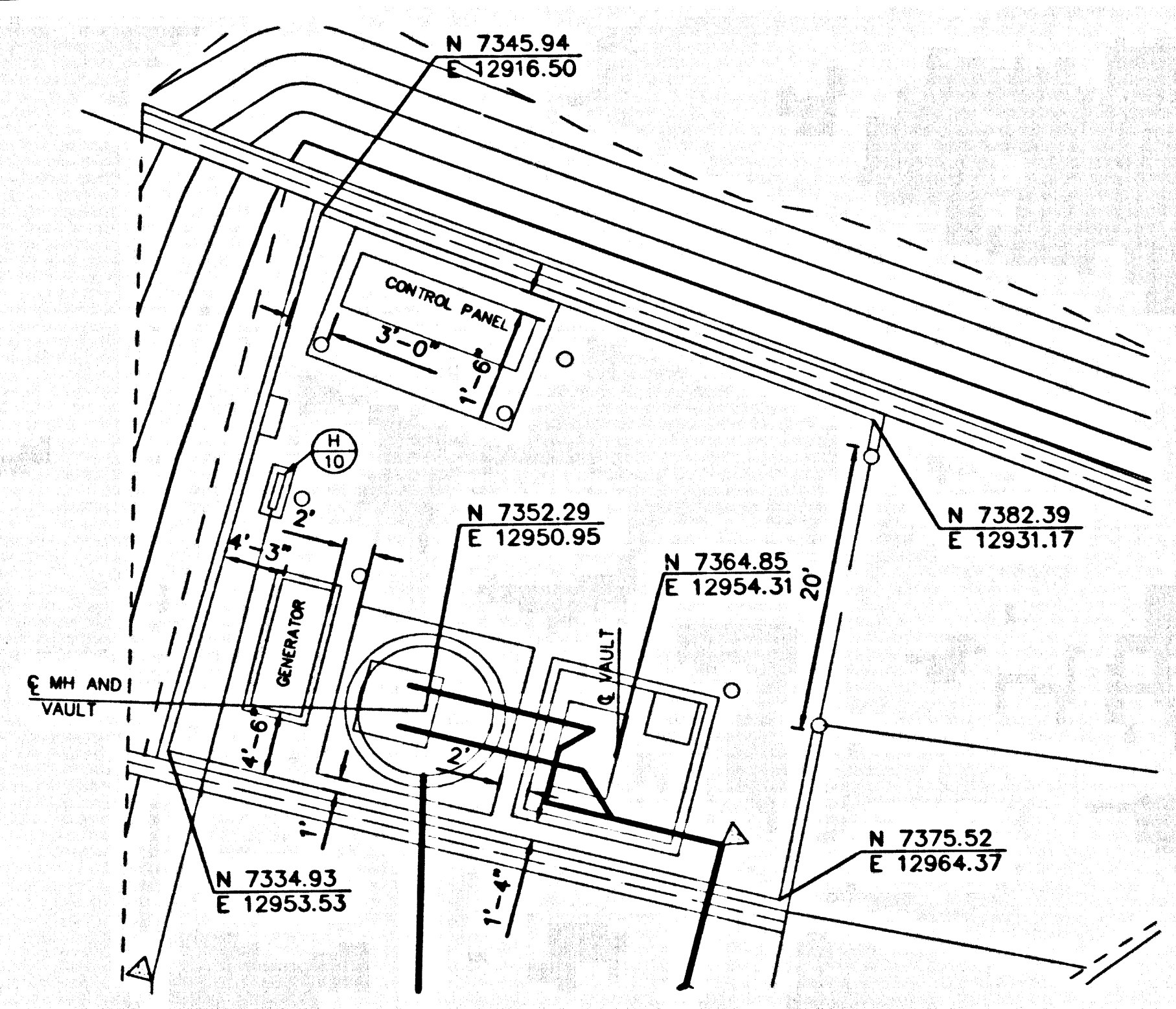




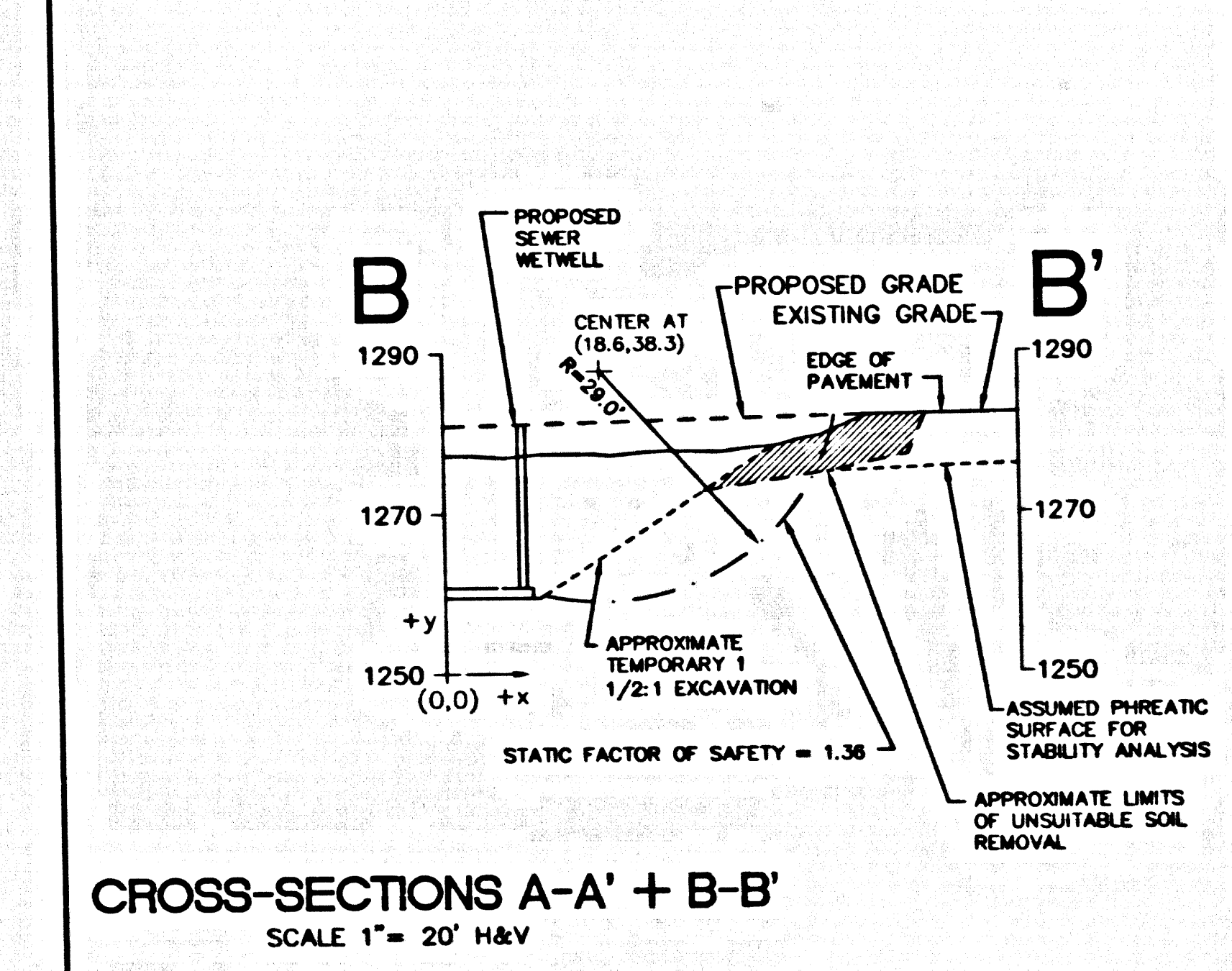
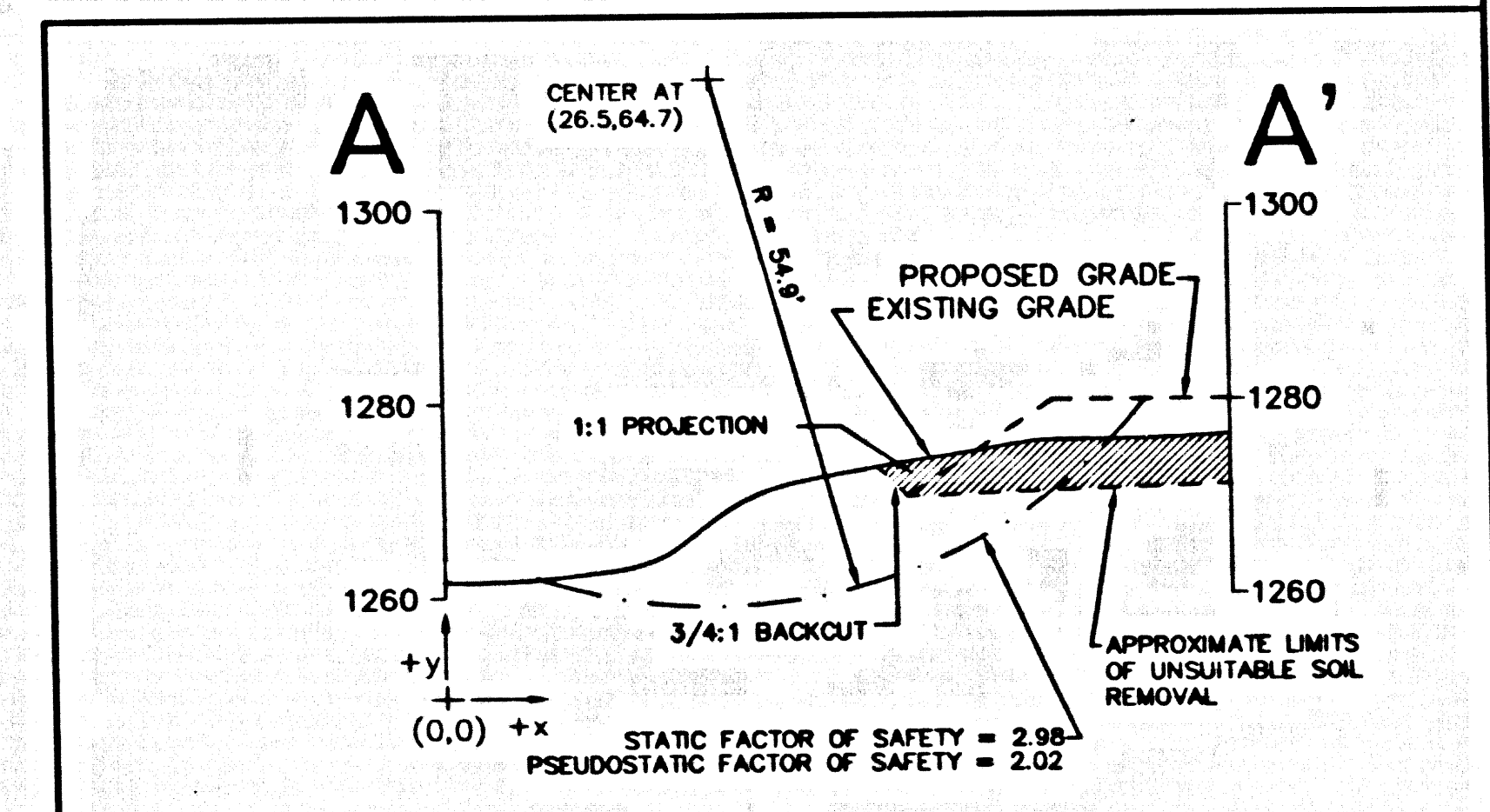
LIFT STATION GRADING AND DRAINAGE PLAN
SCALE 1"=20'

CONSTRUCTION NOTES

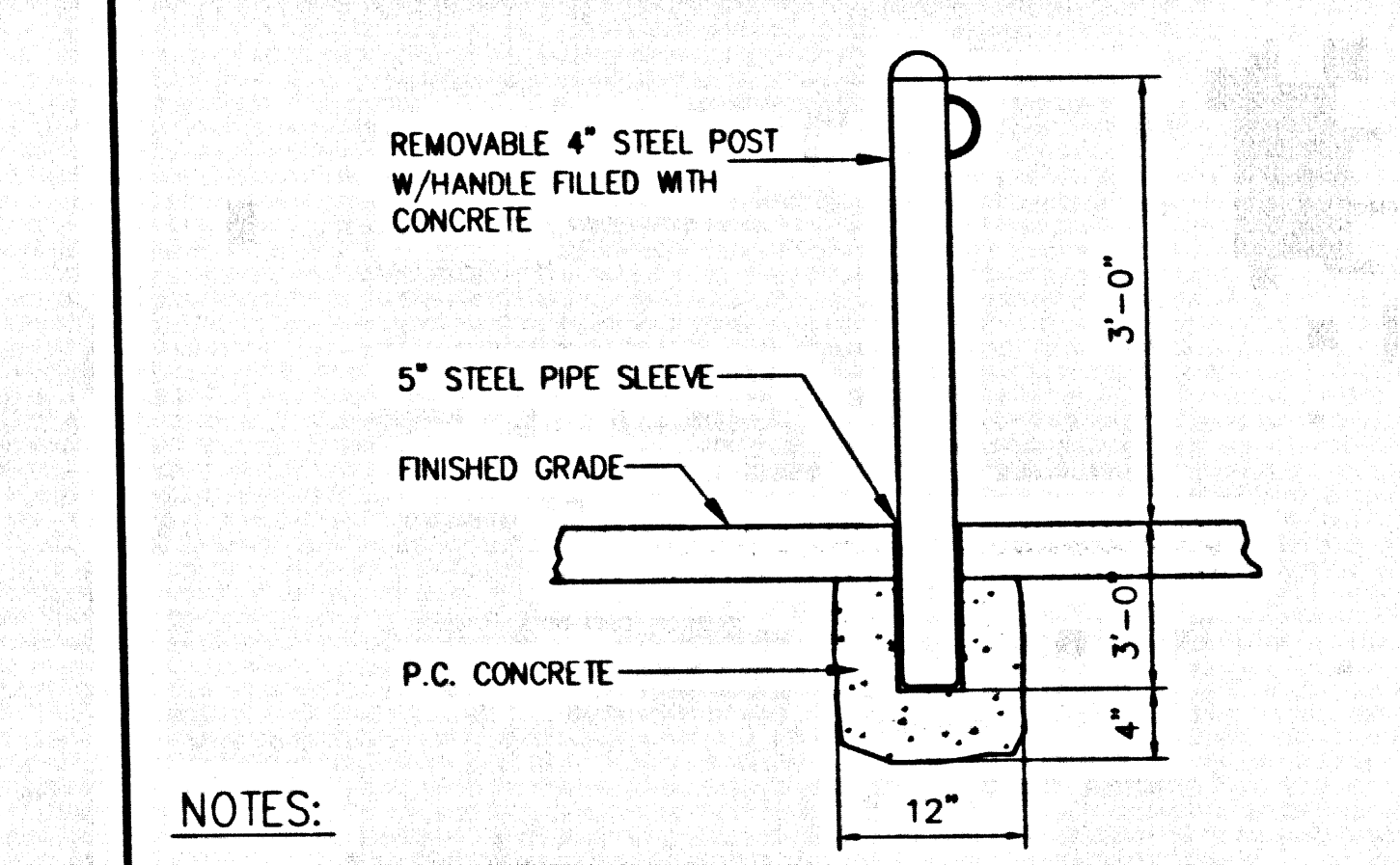
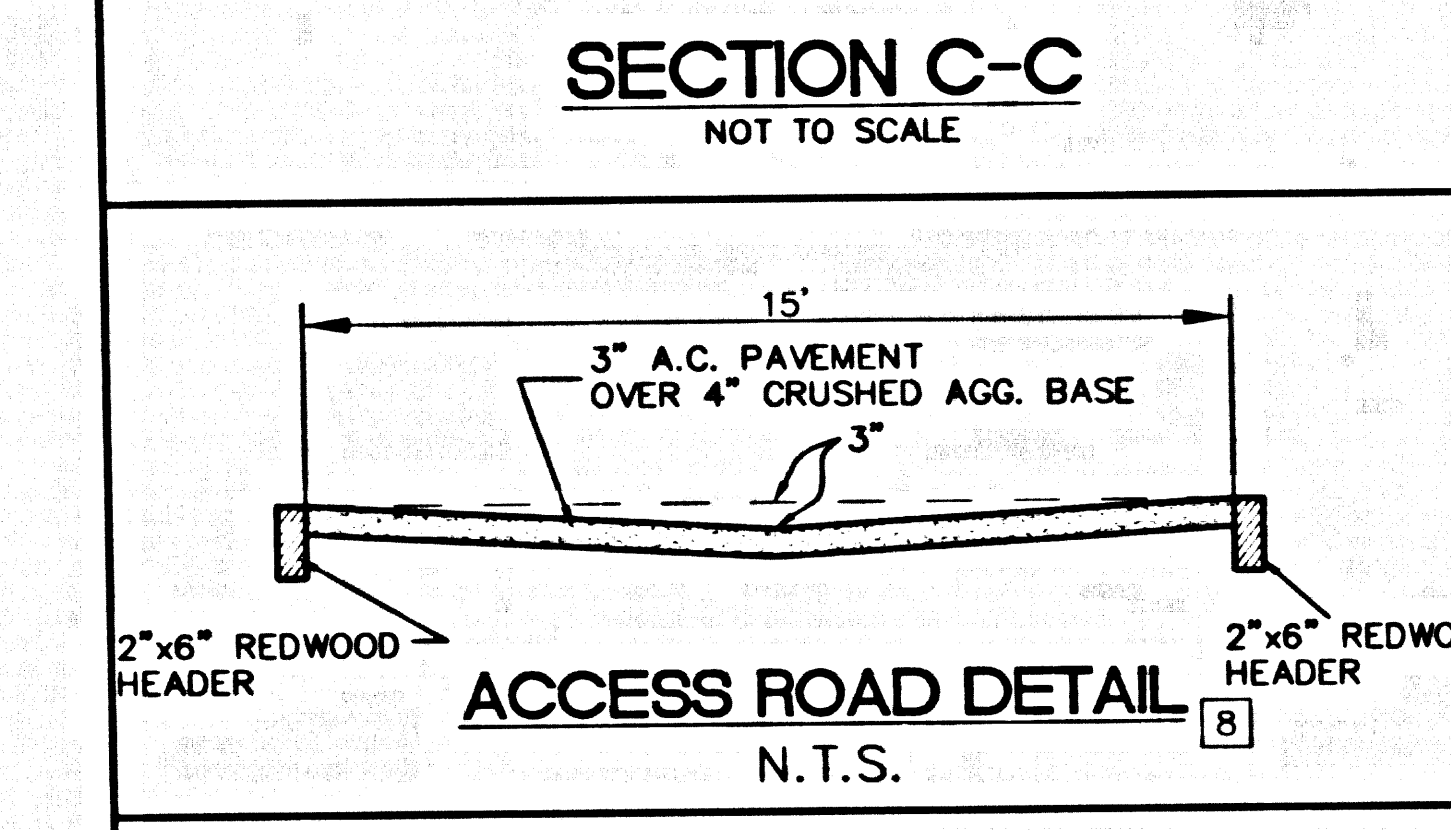
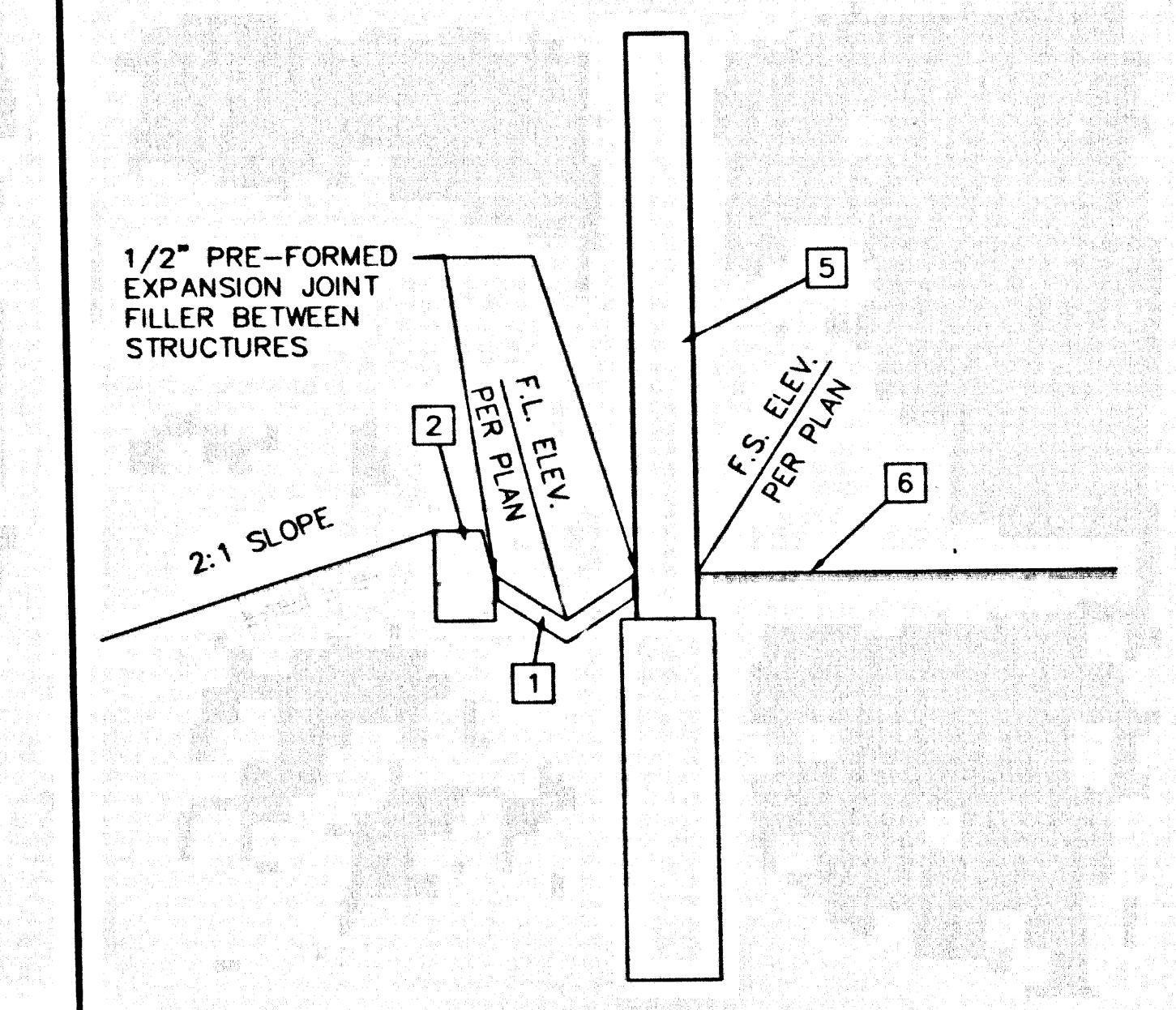
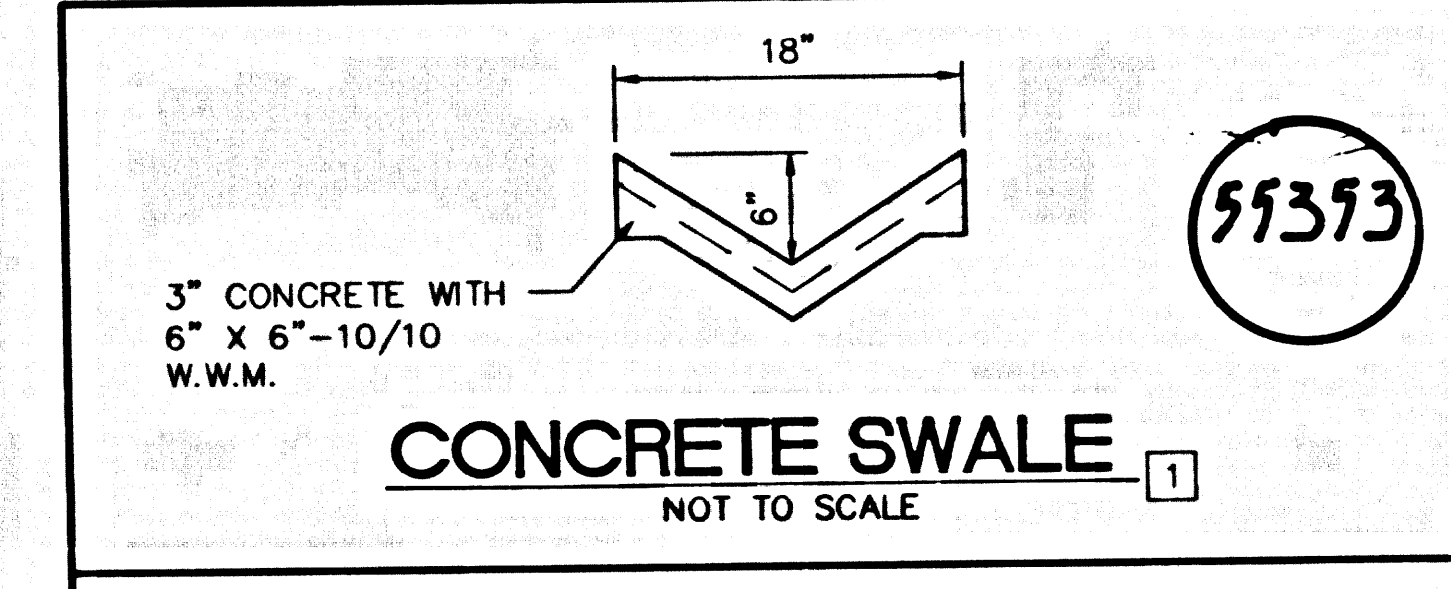
- 1 CONSTRUCT 18" WIDE, 6" DEEP CONCRETE SWALE PER DETAIL HEREON.
- 2 CONSTRUCT 6" CONC. CURB PER A.P.W.A. STD. PLAN 120-1, TYPE A1-6.
- 3 CONSTRUCT REMOVABLE BARRIER POST PER DETAIL HEREON.
- 4 CONSTRUCT 20' WIDE, DOUBLE LEAF DRIVE GATE PER A.P.W.A. STD. PLAN 600-1.
- 5 CONST. 6' HIGH SCREEN WALL (RETAINING 0 FT) PER L.A.C.D.P.W. STD. PLAN 6005-0, TYPE 2.
- 6 3" AC PAVEMENT ON 4" C.A.B.
- 7 CONSTRUCT SEISMIC MOUNT 4500 PSI 8" THICK CONCRETE SLAB 4" ABOVE GRADE, WITH #4 BARS @ 18" O.C. EACH WAY AND 0.5" STEEL ANCHOR BOLTS 18" O.C.
- 8 CONST. 15' WIDE ACCESS ROAD PER DETAIL HEREON.
- 9 CONSTRUCT 6" THICK CONCRETE SLAB 4" ABOVE GRADE, WITH #4 BARS @ 18" O.C.



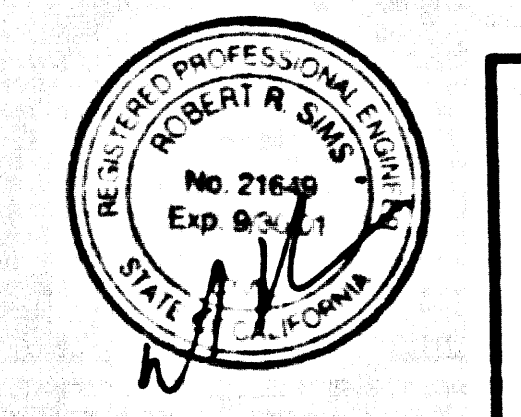
LIFT STATION HORIZONTAL CONTROL PLAN
SCALE 1"=10'



CROSS-SECTIONS A-A' + B-B'
SCALE 1"= 20' H&V



- NOTES:**
1. PIPES SHALL CONFORM TO ASTM A 53, TYPE E, GRADE B, BLACK, SCHEDULE 40, PLAIN END.
 2. APPLY A MINIMUM OF TWO COATS EACH OF RED OXIDE PRIMER AND CHROME YELLOW ENAMEL PAINT (FEDERAL SPEC. TT-C595, COLOR NO. 13539).
 3. CONCRETE SHALL BE CLASS 500-C-2500 IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" LATEST EDITION, SUBSECTION 201-1.1.2.



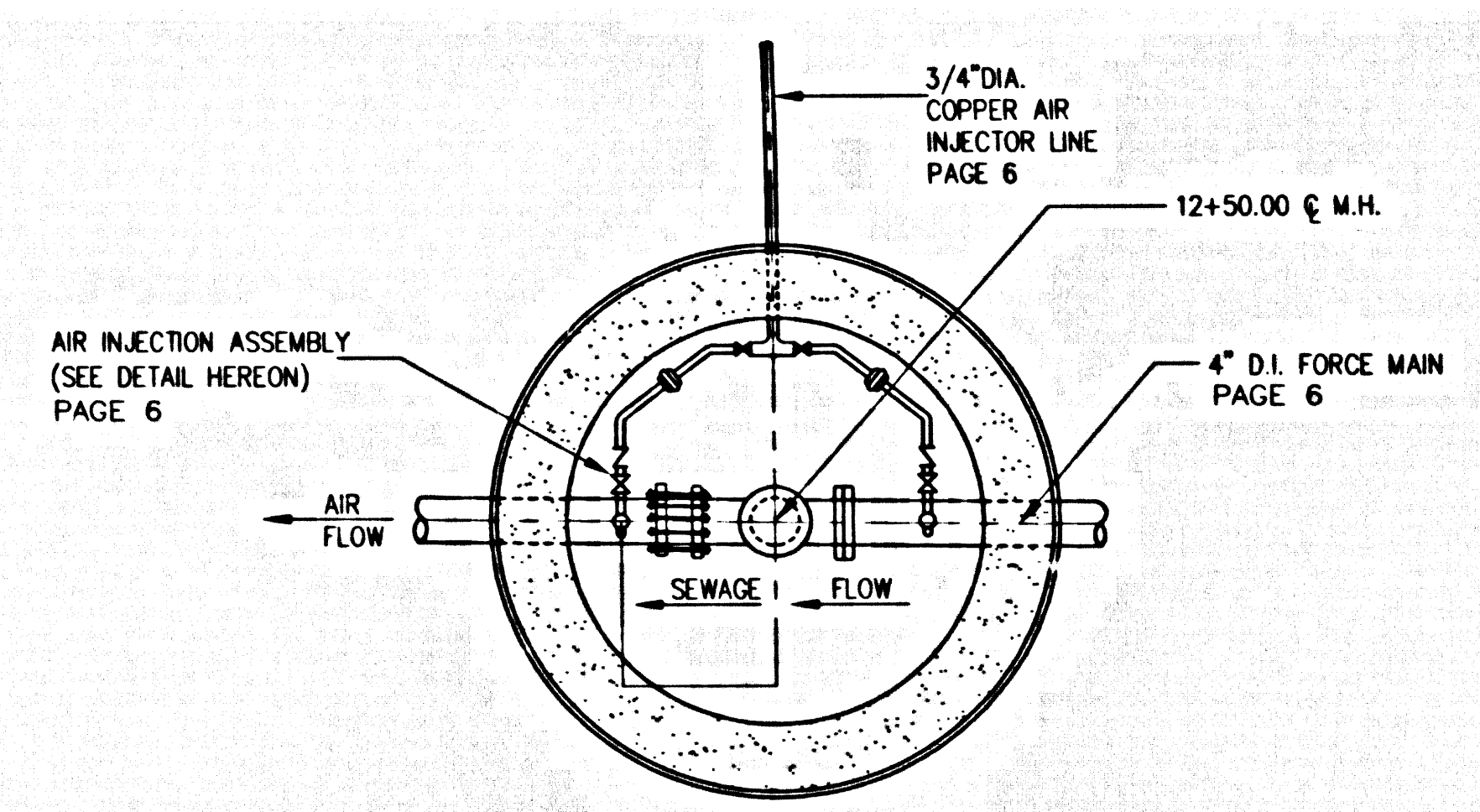
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Land Planning, Civil Engineering & Environmental Services
225 South Lake Avenue, Suite 600
Pasadena, Ca 91101
(626) 578-7000

DEPARTMENT OF PUBLIC WORKS, L.A. COUNTY
CHECKED: *J. E. ...* DATE: 2/22/01
DESIGN: *J. E. ...*
REVIEWED FOR MAINTENANCE: *M. ...* DATE: 2/22/01
WATERWORKS & SEWER MAINT. DIVISION

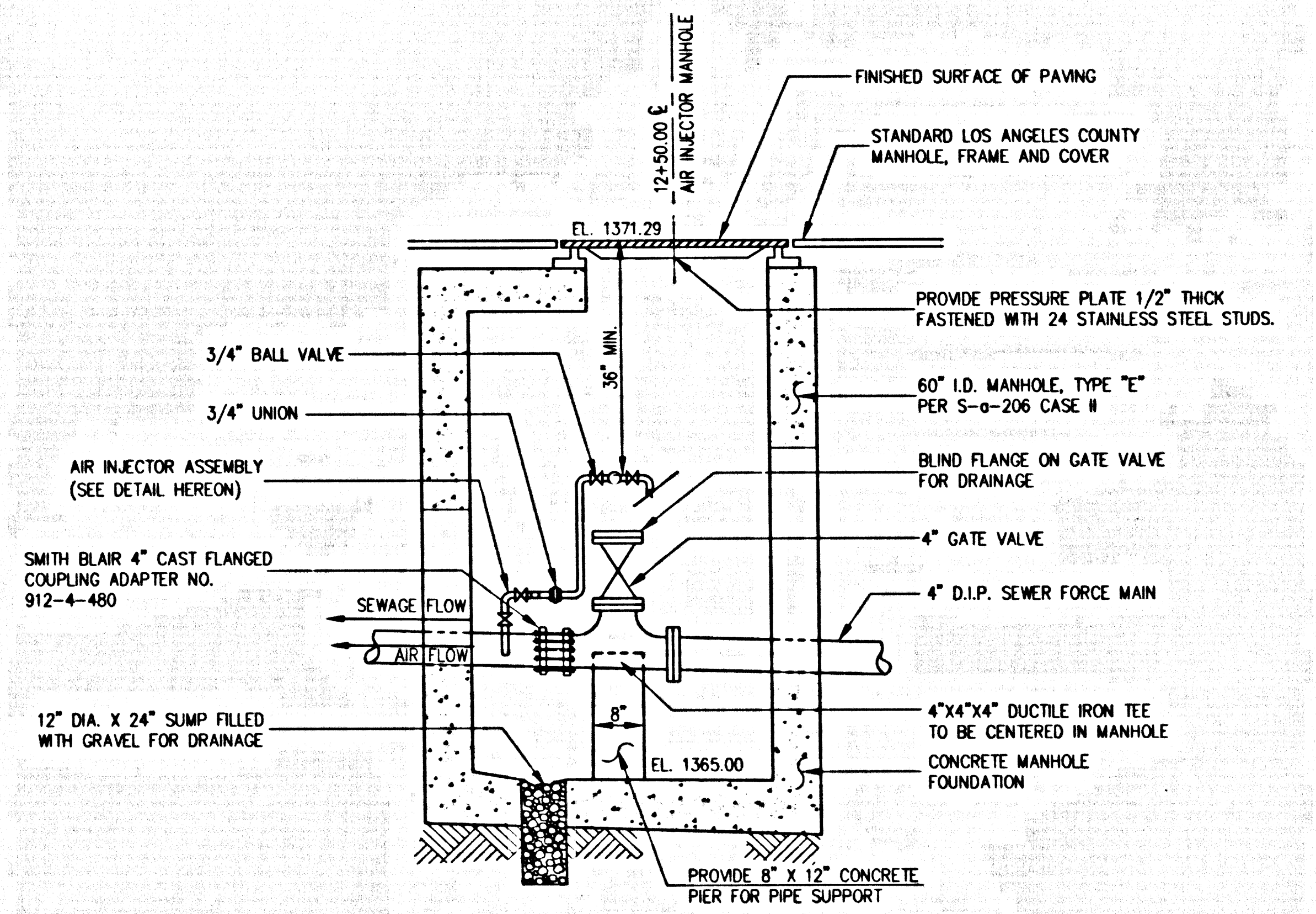
TRACT NO. 52302
COUNTY OF LOS ANGELES
SEWER LIFT STATION GRADING AND DRAINAGE PLAN

P.C. 11536

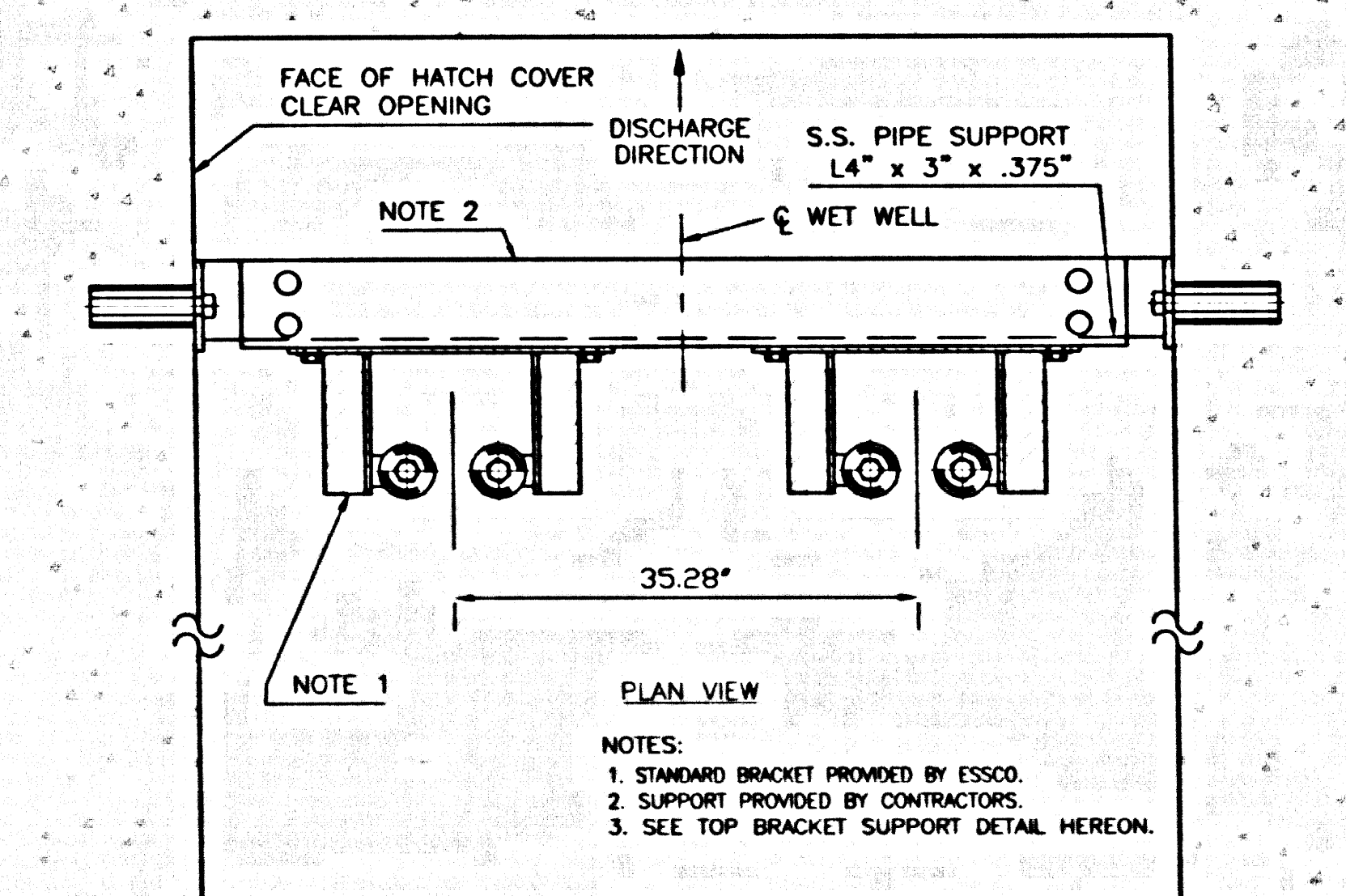
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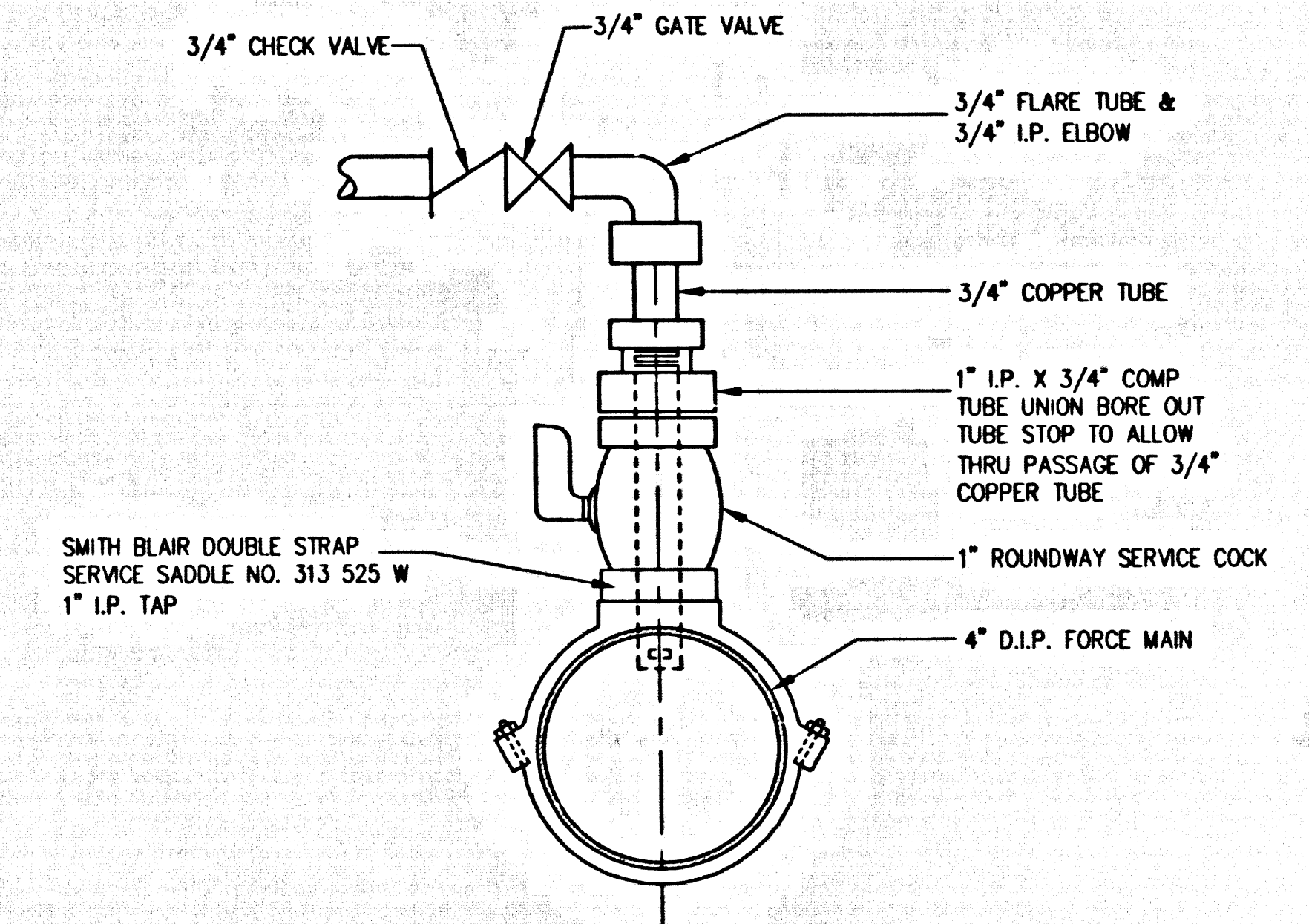
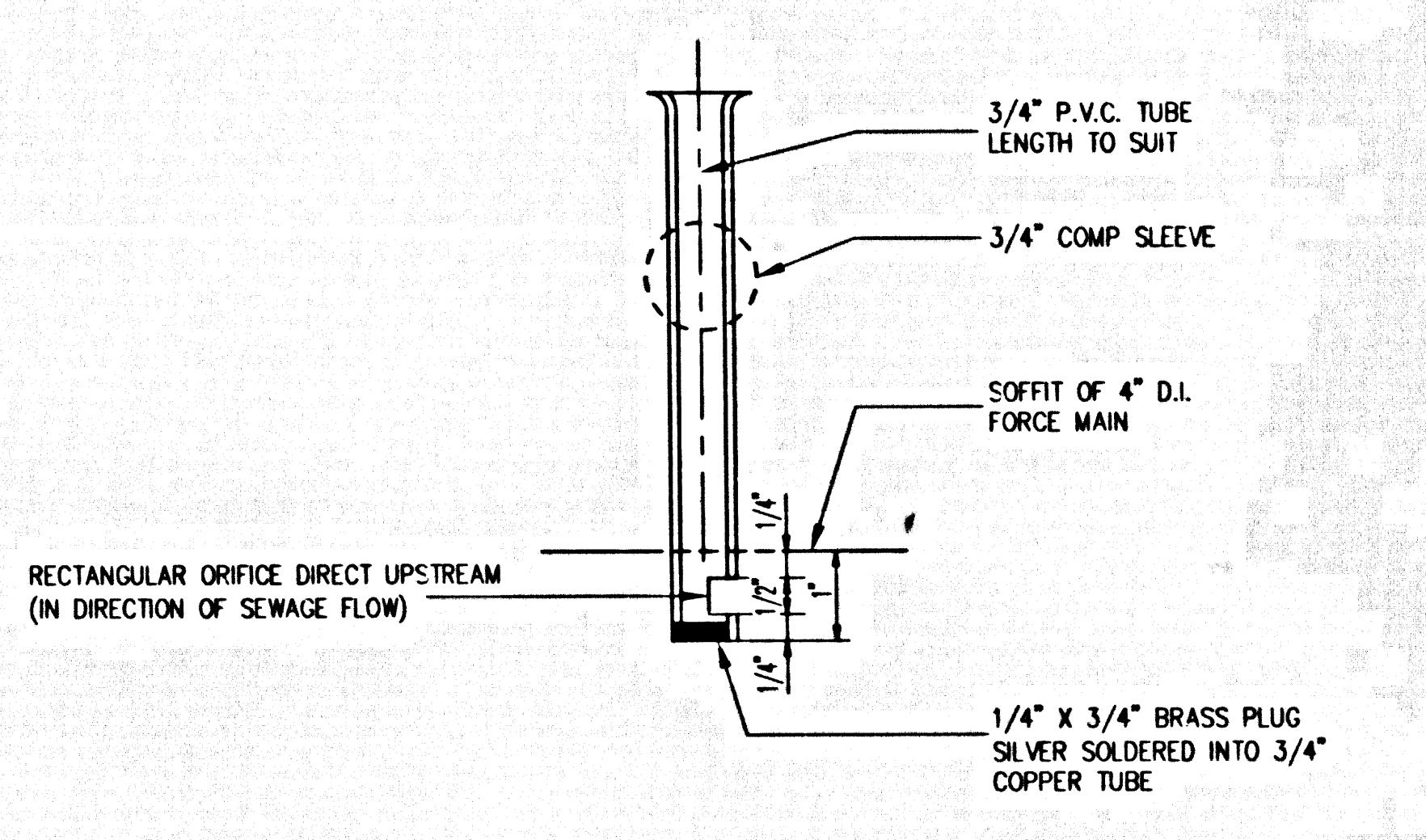
MANHOLE AIR DUCT DETAIL
NOT TO SCALE



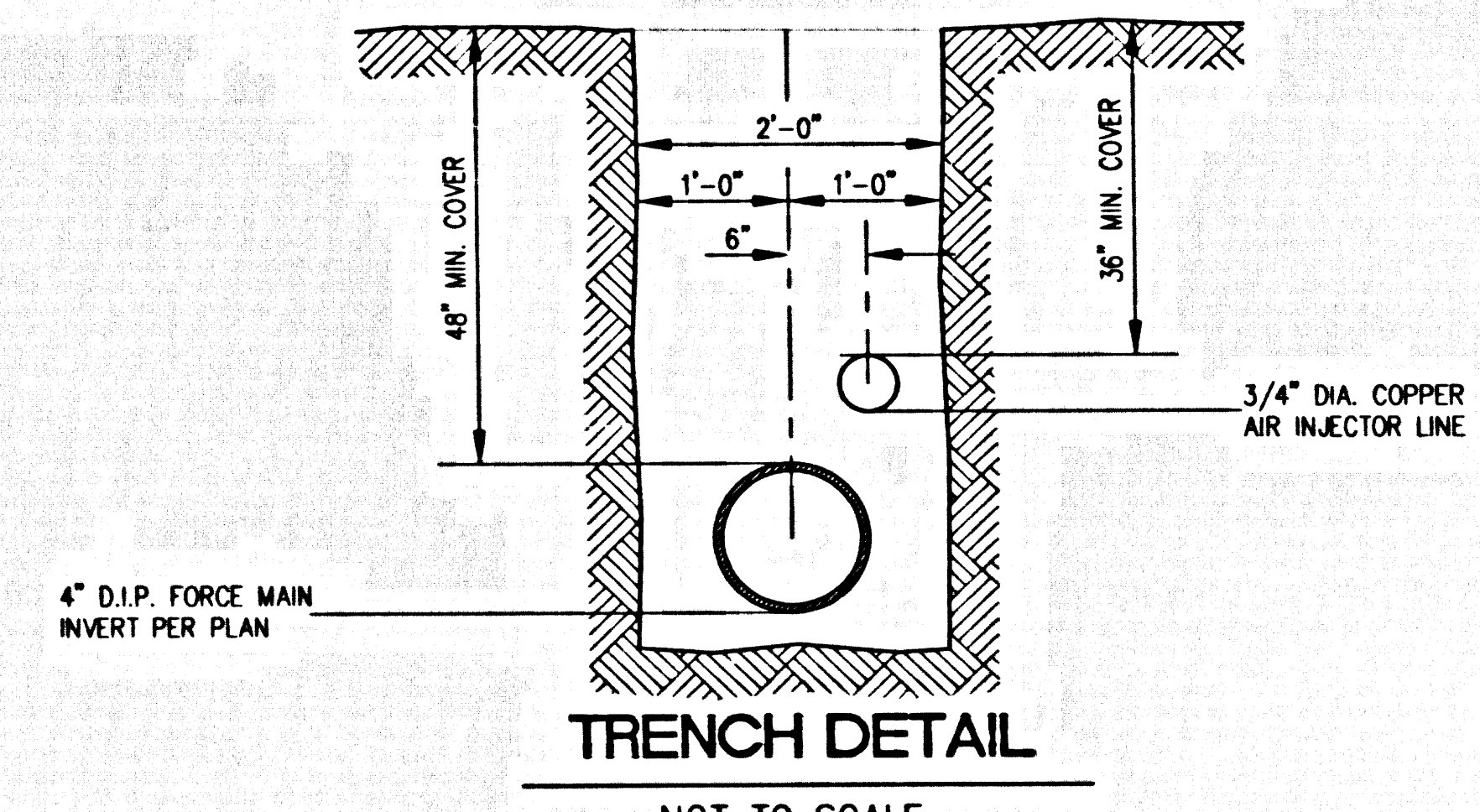
SECTION THROUGH MANHOLE SHOWING DRAINAGE VALVE
NOT TO SCALE



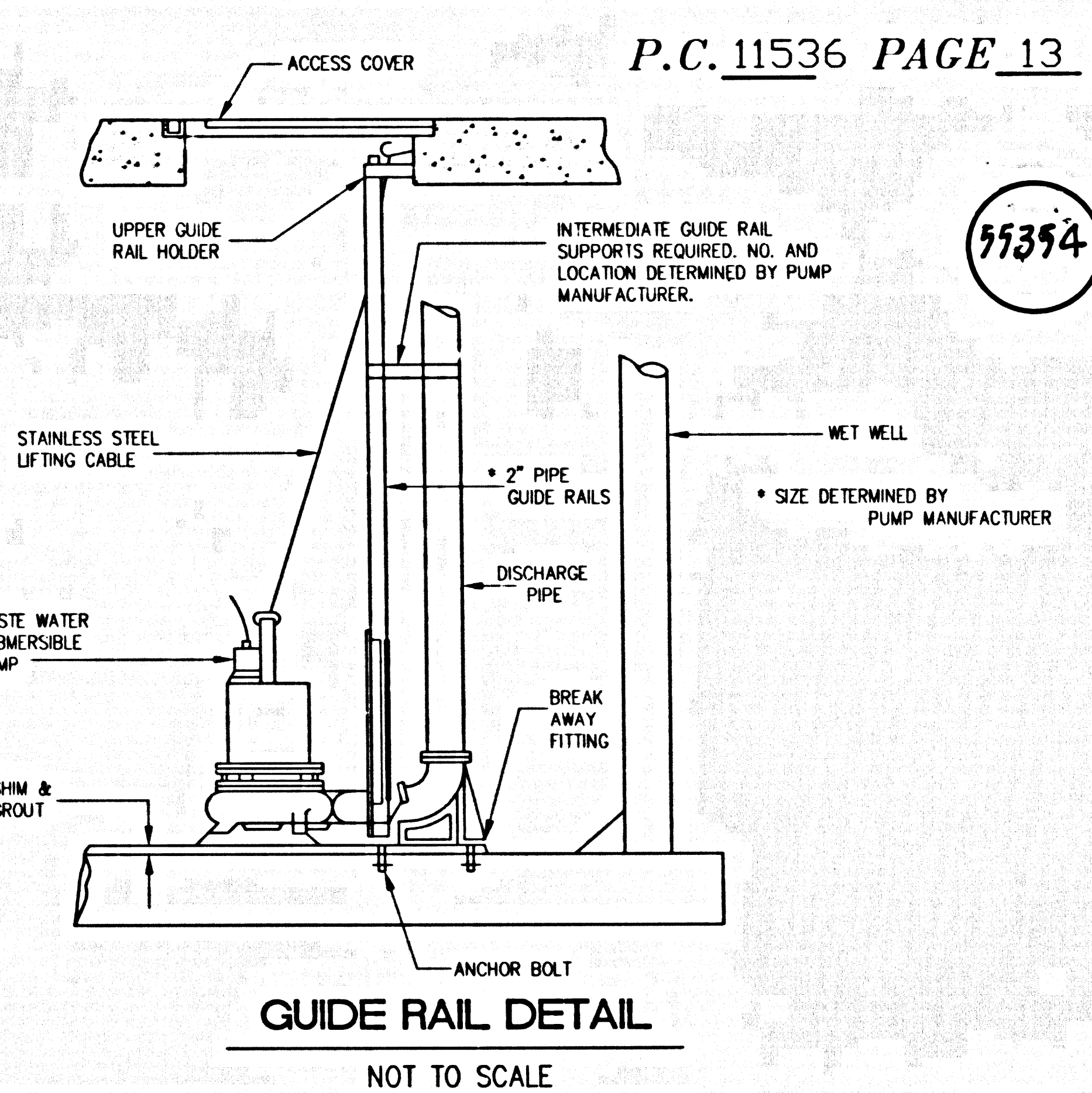
SLIDE RAIL TOP BRACKET SUPPORT FOR OVERSIZED HATCH COVER OPENINGS
NOT TO SCALE



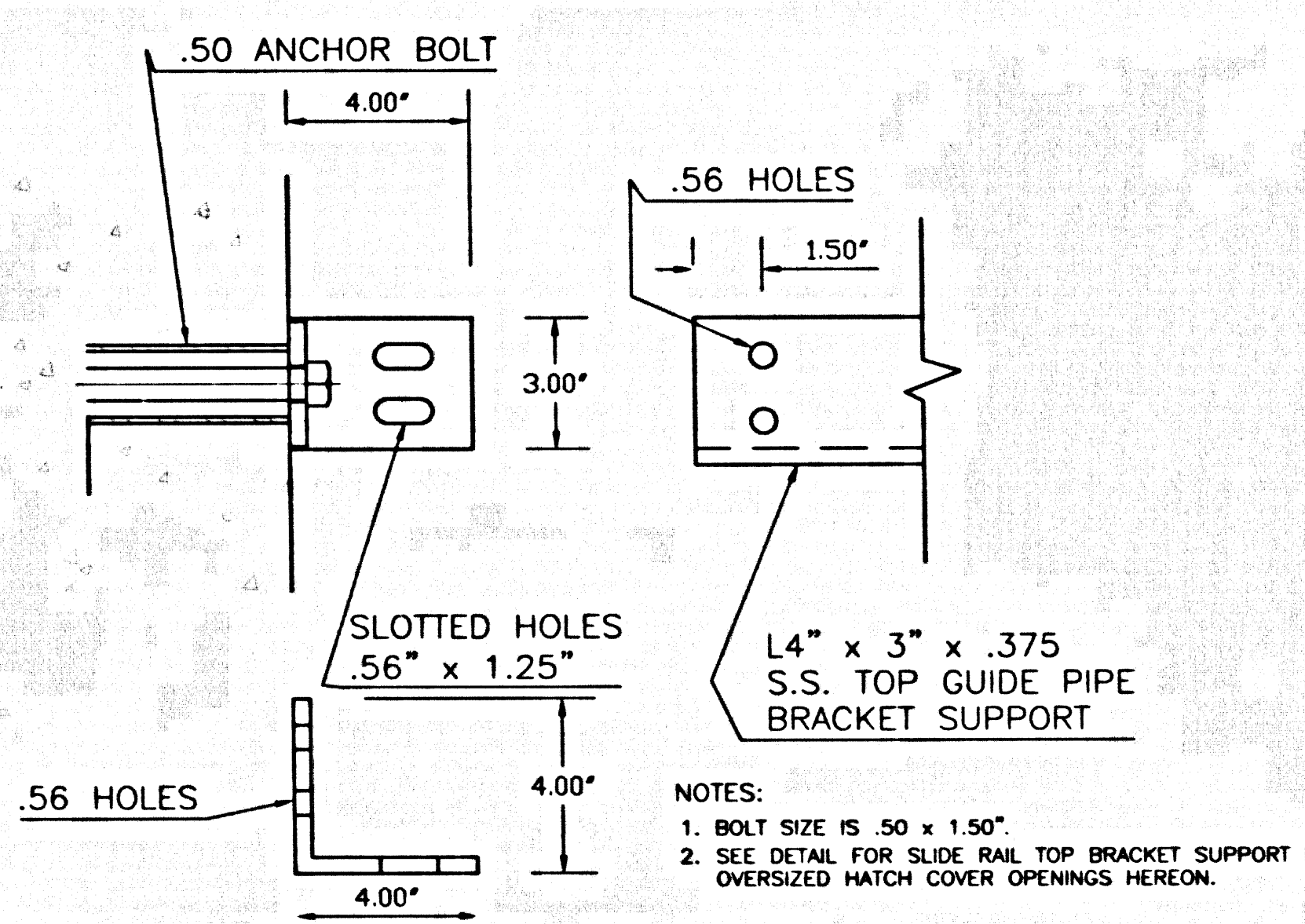
AIR INJECTION ASSEMBLY
NOT TO SCALE



TRENCH DETAIL
NOT TO SCALE

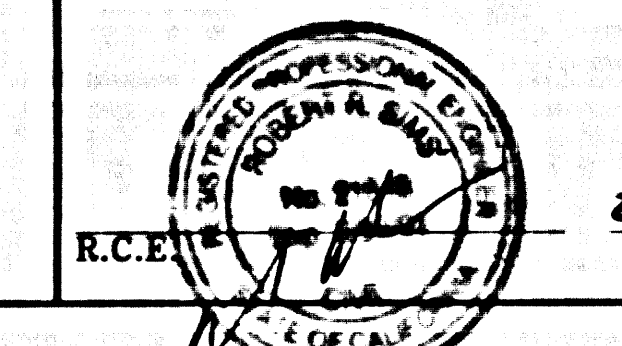


GUIDE RAIL DETAIL
NOT TO SCALE



TOP BRACKET SUPPORT DETAIL
NOT TO SCALE

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DEPARTMENT OF PUBLIC WORKS, L.A. COUNTY
CHECKED: *J. E. [Signature]* DATE: 2/22/01
DESIGN: [Signature]
REVIEWED FOR MAINTENANCE: *[Signature]* DATE: 2/22/01
WATERWORK & SEWER MAINT. DIVISION

TRACT NO. 52302
COUNTY OF LOS ANGELES
MISCELLANEOUS DETAILS

01 03211 .09 20352 .PT
 11/25/00 P.C. 11536

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GENERAL NOTES

- (a) ANY MODIFICATIONS OF OR CHANGES IN APPROVED GRADING PLANS MUST BE APPROVED BY THE BUILDING OFFICIAL.
- (b) ALL GRADING AND CONSTRUCTION SHALL CONFORM TO CHAPTERS 70 AND 71 OF THE LOS ANGELES BUILDING CODE UNLESS SPECIFICALLY NOTED ON THESE PLANS.
- (c) ALL GRADED SITES MUST HAVE DRAINAGE SWALES, BERMS AND OTHER DRAINAGE DEVICES PRIOR TO APPROVAL OF ROUGH GRADING. (SECTION 7020.3.2 OF THE BUILDING CODE.)
- (d) A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
- (e) THE FIELD ENGINEER MUST SET DRAINAGE STAKES FOR ALL DRAINAGE DEVICES.
- (f) ALL STORM DRAIN WORK IS TO BE DONE UNDER CONTINUOUS INSPECTION BY THE FIELD ENGINEER. WEEKLY STATUS REPORTS SHALL BE SUBMITTED BY THE FIELD ENGINEER TO THE LOCAL BUILDING AND SAFETY DISTRICT OFFICE.
- (g) FINAL GRADING MUST BE ALLOWED BEFORE OCCUPANCY OF BUILDINGS WILL BE ALLOWED. (SECTION 7021 OF THE BUILDING CODE.)
- (h) COMPLY WITH CHAPTER 22.56 OF PLANNING AND ZONING CODE BY SHOWING LOCATIONS AND SIZES OF ALL OAK TREES ON THE GRADING PLAN AND OBTAINING THE APPROPRIATE PERMIT.
- (i) THE RETAINING WALL DETAILS SHOWN ON THE PLANS ARE NOT CHECKED BY THE GRADING SECTION. SUBMIT A BUILDING PLAN APPLICATION AND PLAN CHECK FEE TO THE BUILDING AND SAFETY DIVISION DISTRICT OFFICE.
- (j) SEPARATE PLANS FOR TEMPORARY DRAINAGE AND STORM WATER POLLUTION (EROSION CONTROL) MEASURES TO BE USED DURING THE RAINY SEASON MUST BE SUBMITTED PRIOR TO OCTOBER 1. THE EROSION CONTROL DEVICES SHOWN ON SAID PLANS MUST BE INSTALLED BY NO LATER THAN NOVEMBER 1 AND MAINTAINED IN OPERABLE CONDITION UNTIL APRIL 15 OF THE FOLLOWING YEAR, AND BEFORE ANY ANTICIPATED RAIN.
- (k) EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
- (l) PROVISIONS SHALL BE MADE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES.
- (m) A PREVENTIVE PROGRAM TO PROTECT THE SLOPES FROM POTENTIAL DAMAGE FROM BURROWING RODENTS IS REQUIRED. OWNER TO INSPECT SLOPES PERIODICALLY FOR EVIDENCE OF BURROWING RODENTS AND AT FIRST EVIDENCE OF THEIR EXISTENCE SHALL EMPLOY AN EXTERMINATOR FOR THEIR REMOVAL. (SECTION 7019.5 OF THE BUILDING CODE.)
- (n) ROOF DRAINAGE MUST BE DIVERTED FROM GRADED SLOPES. (SECTION 7018.6 OF THE BUILDING CODE.)
- (o) ALL CONSTRUCTION AND GRADING WITHIN A STORM DRAIN EASEMENT ARE TO BE DONE PER PRIVATE DRAIN NO. 2500.
- (p) ALL SUBDRAIN OUTLETS ARE TO BE SURVEYED FOR LINE AND ELEVATION. THIS CAN BE SHOWN ON AN AS-BUILT GRADING PLAN.

INSPECTION NOTES

- 1. THE PERMITTEE OR HIS AGENT SHALL NOTIFY THE BUILDING OFFICIAL AT LEAST ONE WORKING DAY IN ADVANCE OF REQUIRED INSPECTIONS AT FOLLOWING STAGES OF THE WORK (SECTION 7020 OF THE BUILDING CODE.)
 - 1. INITIAL - WHEN THE SITE HAS BEEN CLEARED OF VEGETATION AND UNAPPROVED FILL HAS BEEN SCARIFIED, BENCHED OR OTHERWISE PREPARED FOR FILL, FILL SHALL NOT HAVE BEEN PLACED PRIOR TO THIS INSPECTION.
 - 2. ROUGH - WHEN APPROXIMATE FINAL ELEVATIONS HAVE BEEN ESTABLISHED; DRAINAGE TERRACES, SWALES AND BERMS INSTALLED AT THE TOP OF THE SLOPE; AND THE STATEMENTS REQUIRED IN THIS SECTION HAVE BEEN RECEIVED.
 - 3. FINAL - WHEN GRADING HAS BEEN COMPLETED; ALL DRAINAGE DEVICES INSTALLED; SLOPE PLANTING ESTABLISHED; IRRIGATION SYSTEMS INSTALLED AND THE AS-BUILT PLANS, REQUIRED STATEMENTS, AND REPORTS HAVE BEEN SUBMITTED.
- 2. IN ADDITION TO THE INSPECTION REQUIRED OF THE BUILDING OFFICIAL FOR REGULAR GRADING REPORTS AND STATEMENTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL IN ACCORDANCE WITH SECTIONS 7020 AND 7021 OF THE BUILDING CODE.

FILL NOTES

- (a) FILL SHALL BE COMPACTED THROUGHOUT THEIR FULL EXTENT TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557-91, METHOD "D", WHERE APPLICABLE. WHERE NOT APPLICABLE, A TEST ACCEPTABLE TO THE BUILDING OFFICIAL SHALL BE USED. (SECTION 7016.1 OF THE BUILDING CODE.)
- (b) FIELD DENSITY SHALL BE DETERMINED BY A METHOD ACCEPTABLE TO THE BUILDING OFFICIAL. (SECTION 7016.1 OF THE BUILDING CODE.) HOWEVER, NOT LESS THAN 10% OF THE REQUIRED DENSITY TEST, UNIFORMLY DISTRIBUTED, SHALL BE OBTAINED BY THE SAND CONE METHOD.
- (c) SUFFICIENT TESTS OF THE FILL SOILS SHALL BE MADE TO DETERMINE THE RELATIVE COMPACTION OF THE FILL IN ACCORDANCE WITH THE FOLLOWING MINIMUM GUIDELINES:
 - 1. ONE TEST FOR EACH TWO FOOT VERTICAL LIFT.
 - 2. ONE TEST FOR EACH 1000 CUBIC YARDS OF MATERIAL PLACED.
 - 3. ONE TEST AT THE LOCATION OF THE FINAL FILL SLOPE FOR EACH BUILDING SITE (LOT) IN EACH FOUR FOOT VERTICAL LIFT OR PORTION THEREOF.
 - 4. ONE TEST IN THE VICINITY OF EACH BUILDING PAD FOR EACH FOUR FOOT VERTICAL LIFT OR PORTION THEREOF.
- (d) SUFFICIENT TESTS OF FILL SOILS SHALL BE MADE TO VERIFY THAT THE SOIL PROPERTIES COMPLY WITH THE DESIGN REQUIREMENTS, AS DETERMINED BY THE GEOTECHNICAL ENGINEER INCLUDING SOIL TYPES, SHEAR STRENGTHS PARAMETERS AND CORRESPONDING UNIT WEIGHTS IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:
 - 1. PRIOR AND SUBSEQUENT TO PLACEMENT OF THE FILL, SHEAR TESTS SHALL BE TAKEN OF EACH TYPE OF SOIL OR SOIL MIXTURE TO BE USED FOR ALL FILL SLOPES STEEPER THAN 3 HORIZONTAL TO ONE VERTICAL.
 - 2. SHEAR TEST RESULTS FOR THE PROPOSED FILL MUST MEET OR EXCEED THE DESIGN VALUES USED IN THE GEOTECHNICAL REPORT TO DETERMINE SLOPE STABILITY REQUIREMENTS. OTHERWISE, THE SLOPE MUST BE REEVALUATED USING THE ACTUAL SHEAR TEST VALUE OF THE FILL MATERIAL THAT IS IN PLACE.
 - 3. FILL SOILS SHALL BE FREE OF DELETERIOUS MATERIALS.
 - 4. THE RESULTS OF SUCH TESTING SHALL BE INCLUDED IN THE REPORTS REQUIRED BY SECTION 7016.8 OF THE BUILDING CODE.
- (e) FILL SHALL NOT BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAIN (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER. THE BUILDING OFFICIAL MAY REQUIRE A STANDARD TEST METHOD FOR MOISTURE, ASH, ORGANIC MATTER, PEAT OR OTHER ORGANIC SOILS ASTM D-2974-87 ON ANY SUSPECT MATERIAL. ALL MATERIALS THAT HAVE A TEST VALUE OF 10 PERCENT OR GREATER WILL BE REJECTED AS UNSUITABLE FOR SUPPORT OF OR BEING STRUCTURAL FILL.
- (f) ROCK OR SIMILAR MATERIAL GREATER THAN 12 INCHES IN DIAMETER SHALL NOT BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE GEOTECHNICAL ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL.
- (g) CONTINUOUS INSPECTION BY THE GEOTECHNICAL ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL FILL PLACEMENT AND COMPACTION OPERATIONS WHERE FILLS HAVE A DEPTH GREATER THAN 30 FEET OR SLOPE SURFACE STEEPER THAN 2:1.
- (h) CONTINUOUS INSPECTION BY THE GEOTECHNICAL ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL SUBDRAIN INSTALLATION.
- (i) FILL SLOPES IN EXCESS OF 2:1 STEEPNESS RATIO ARE TO BE CONSTRUCTED BY THE PLACEMENT OF SOIL AT SUFFICIENT DISTANCE BEYOND THE PROPOSED FINISH SLOPE TO ALLOW COMPACTION EQUIPMENT TO BE OPERATED AT THE OUTER LIMITS OF THE FINAL SLOPE SURFACE. THE EXCESS FILL IS TO BE REMOVED PRIOR TO COMPLETION OF ROUGH GRADING. OTHER CONSTRUCTION PROCEDURES MAY BE USED WHEN IT IS DEMONSTRATED TO THE SATISFACTION OF THE BUILDING OFFICIAL THAT THE ANGLE OF SLOPE, CONSTRUCTION METHOD AND OTHER FACTORS WILL HAVE EQUIVALENT EFFECT. (SECTION 7016.1 OF THE BUILDING CODE.)
- (j) THE GEOTECHNICAL ENGINEER SHALL PROVIDE SUFFICIENT INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND THE PLACEMENT AND COMPACTION OF THE FILL TO BE SATISFIED THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE PLAN AND APPLICABLE CODE REQUIREMENTS.
- (k) THE GRADING CONTRACTOR SHALL SUBMIT THE STATEMENT REQUIRED BY SECTION 7021 OF THE BUILDING CODE AT THE COMPLETION OF ROUGH GRADING.

AGENCY NOTES

- 1. OBTAIN A PERMIT FROM CONSTRUCTION DIVISION, PERMITS SECTION, LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS FOR ANY WORK WITHIN OR AFFECTING PUBLIC MAINTAINED FACILITIES INCLUDING BUT NOT LIMITED TO PUBLIC STREET RIGHT OF WAY AND STORM DRAINS.
- 2. PERMISSION TO OPERATE IN FIRE ZONE 4 MUST BE OBTAINED FROM THE LOCAL FIRE DEPARTMENT PRIOR TO COMMENCING WORK.
- 3. SECURE PERMISSION FROM THE CORPS OF ENGINEERS TO PERFORM WORK IN THE STREAMBED.
- 4. OBTAIN A CALIFORNIA STATE FISH AND GAME PERMIT TO PERFORM WORK IN THE STREAMBED.
- 5. SECURE PERMISSION FROM CALTRANS FOR CONSTRUCTION AND/OR DISCHARGE OR DRAINAGE IN THEIR RIGHT OF WAY.

GEOTECHNICAL NOTES

- 1. ALL RECOMMENDATIONS INCLUDED IN THE CONSULTANT'S GEOTECHNICAL REPORT(S) MUST BE COMPLIED WITH AND ARE A PART OF THE GRADING PLANS AND SPECIFICATIONS.
- 2. GRADING OPERATIONS MUST BE CONDUCTED UNDER PERIODIC GEOLOGIC INSPECTIONS WITH MONTHLY INSPECTION REPORTS TO BE SUBMITTED TO THE GEOLOGY AND SOILS SECTION.
- 3. THE CONSULTING GEOLOGIST AND GEOTECHNICAL ENGINEER MUST STATE IN A FINAL REPORT, PRIOR TO THE APPROVAL OF ROUGH GRADING BY THE MATERIALS ENGINEERING DIVISION THAT GEOTECHNICAL HAZARDS HAVE BEEN REMOVED, MITIGATED OR DESIGNATED AS "RESTRICTED USE AREAS". THE FINAL REPORT MUST BE SUBMITTED TO THE MATERIALS ENGINEERING DIVISION FOR THEIR REVIEW AND APPROVAL AND MUST INCLUDE AN AS-BUILT GEOTECHNICAL MAP.
- 4. FOUNDATION, WALL AND POOL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE CONSULTING GEOLOGIST AND GEOTECHNICAL ENGINEER, PRIOR TO THE PLACING OF STEEL OR CONCRETE.
- 5. BUILDING PADS LOCATED IN CUT/FILL TRANSITION AREA SHALL BE OVER-EXCAVATED A MINIMUM OF (3) FEET BELOW THE PROPOSED BOTTOM OF FOOTING.

PLANTING AND IRRIGATION NOTES

- 1. THE PLANS OF A DESIGNED IRRIGATION SYSTEM FOR FULL COVERAGE OF ALL PORTIONS OF THE SLOPES SHALL BE SUBMITTED AND APPROVED PRIOR TO ROUGH GRADING APPROVAL BY THE COUNTY INSPECTOR. (SECTION 7019-1 OF THE BUILDING CODE.)
- 2. ALL CUT SLOPES OVER FIVE (5) FEET AND FILL SLOPES OVER THREE (3) FEET SHALL BE PLANTED WITH AN APPROVED GROUND COVER AND PROVIDED WITH AN IRRIGATION SYSTEM AS SOON AS PRACTICAL AFTER ROUGH GRADING. (SECTION 7019.2 OF THE BUILDING CODE.)
- 3. PLANTING AND IRRIGATION PLANS FOR SLOPES GREATER THAN 20 FEET IN HEIGHT MUST BE PREPARED AND SIGNED BY A LICENSED LANDSCAPE ARCHITECT OR REGISTERED CIVIL ENGINEER.

NOTES TO CONTRACTORS

- 1. ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED.
- 2. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' CONSTRUCTION SAFETY ORDERS.
- 3. THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH ANY OF THE GOVERNMENT, STATE OR CITY RULES AND REGULATIONS. CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPT FOR THE LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- 4. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE DUE CARE TO PROTECT ALL UTILITIES. PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 1-800-422-4133.

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ATTACHMENT 'A' NOTES

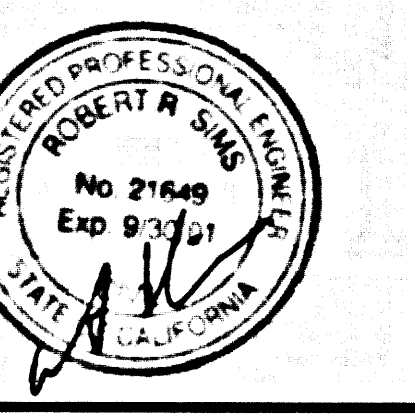
- A. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
- B. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- C. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- D. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- E. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- F. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- G. ANY SLOPES WITH DISTURBED SOILS OR DENuded OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.

ATTACHMENT 'B' BMP'S

CA001 - DEWATERING OPERATIONS	ESC20 - GEOTEXTILES AND MATS
CA002 - PAVING OPERATIONS	ESC21 - DUST CONTROLS
CA003 - STRUCTURE CONSTRUCTION AND PAINTING	ESC22 - TEMPORARY STREAM CROSSING
CA010 - MATERIAL DELIVERY AND STORAGE	ESC23 - CONSTRUCTION ROAD STABILIZATION
CA011 - MATERIAL USE	ESC24 - STABILIZED CONSTRUCTION ENTRANCE
CA012 - SPILL PREVENTION AND CONTROL	ESC30 - EARTH DIME
CA020 - SOLID WASTE MANAGEMENT	ESC31 - TEMPORARY DRAINS AND SWALES
CA021 - HAZARDOUS WASTE MANAGEMENT	ESC32 - SLOPE DRAIN
CA022 - CONTAMINATED SOIL MANAGEMENT	ESC40 - OUTLET PROTECTION
CA023 - CONCRETE WASTE MANAGEMENT	ESC41 - CHECK DAMS
CA030 - VEHICLE AND EQUIPMENT CLEANING	ESC42 - SLOPE ROUGHENING/TERRACING
CA031 - VEHICLE AND EQUIPMENT FUELING	ESC50 - SILT FENCE
CA032 - VEHICLE AND EQUIPMENT MAINTENANCE	ESC51 - STRAW BALE BARRIERS
CA040 - EMPLOYEES/SUBCONTRACTOR TRAINING	ESC52 - SAND BAG BARRIER
ESC01 - SCHEDULING	ESC53 - BRUSH OR ROCK FILTER
ESC02 - PRESERVATION OF EXISTING VEGETATION	ESC54 - STORM DRAIN INLET PROTECTION
ESC10 - SEEDING AND PLANTING	ESC55 - SEDIMENT TRAP
ESC11 - MULCHING	ESC56 - SEDIMENT BASIN

EARTHWORK QUANTITIES:

	IN PLACE (C.Y.)	SHRINKAGE	BULKING	NET CUT (C.Y.)	NET FILL (C.Y.)
RAW	650	650 CY. @ 5% = 32 CY.	-	-	682
ALLUVIUM REMOVE & RECOMP.	1,500	1500 CY. @ 15% = 1,275 CY.	-	-	225
NET	2,150	-	-	-	907



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 (626) 578-7000

DEPARTMENT OF PUBLIC WORKS, L.A. COUNTY
 CHECKED *[Signature]* 2/22/01
 DESIGN DIVISION DATE
 REVIEWED FOR MAINTENANCE *[Signature]* 2/22/01
 WATERWORKS/SEWER MAINT. DIVISION DATE

TRACT NO. 52302
 COUNTY OF LOS ANGELES
 SEWER LIFT STATION
 GRADING AND DRAINAGE NOTES