

01872-01

NO.	DATE	DESCRIPTION	BY
A	12-30-85	PLOTTED METERS PER FIELD MEASUREMENTS.	AD

**LAS VIRGENES
MUNICIPAL WATER DISTRICT**

**HIDDEN HILLS WATER PLANS
JED SMITH & ROUND MEADOW**

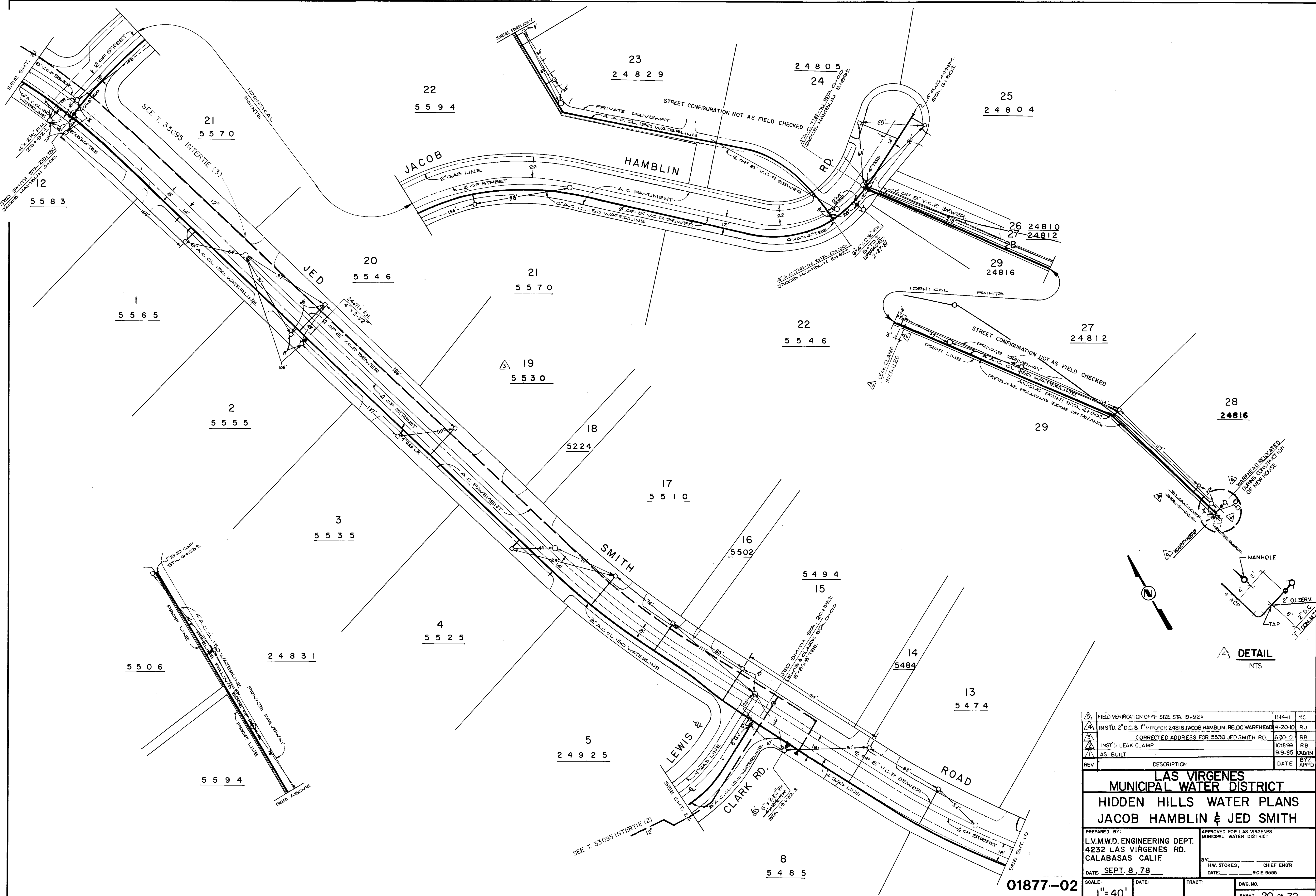
PREPARED BY: LVM.W.D. ENGINEERING DEPT.
4232 LAS VIRGENES RD.
CALABASAS CALIF

APPROVED FOR LAS VIRGENES MUNICIPAL WATER DISTRICT

BY: H.W. STOKES, CHIEF ENGR
DATE: SEPT. 8, 78 DATE: RCE 9555

SCALE: 1"=40'	DATE: _____	TRACT: _____	DWG NO: _____
MODIFICATIONS PER JED SMITH PIPELINE IMPROVEMENTS DESCRIPTION: _____			SHEET 16 OF 32

DETAIL 'A'
SCALE NTS



3	FIELD VERIFICATION OF FH SIZE STA. 19+92.4	11-14-11	RC
4	INST'D 2" D.C. & 1" MTR. FOR 24816 JACOB HAMBLIN RELOC. WARFHEAD	4-20-10	RJ
5	CORRECTED ADDRESS FOR 5530 JED SMITH RD.	6-30-10	RB
6	INST'L LEAK CLAMP	10-18-99	RB
7	AS-BUILT	9-9-85	DAVIN
REV	DESCRIPTION	DATE	BY

**LAS VIRGENES
MUNICIPAL WATER DISTRICT**

**HIDDEN HILLS WATER PLANS
JACOB HAMBLIN & JED SMITH**

PREPARED BY:
L.V.M.W.D. ENGINEERING DEPT.
4232 LAS VIRGENES RD.
CALABASAS CALIF

APPROVED FOR LAS VIRGENES
MUNICIPAL WATER DISTRICT

BY: H.W. STOKES, CHIEF ENGR
DATE: _____, R.C.E. 9555

DATE: **SEPT. 8, 78**

SCALE: 1" = 40'

TRACT: _____ DWG. NO. _____

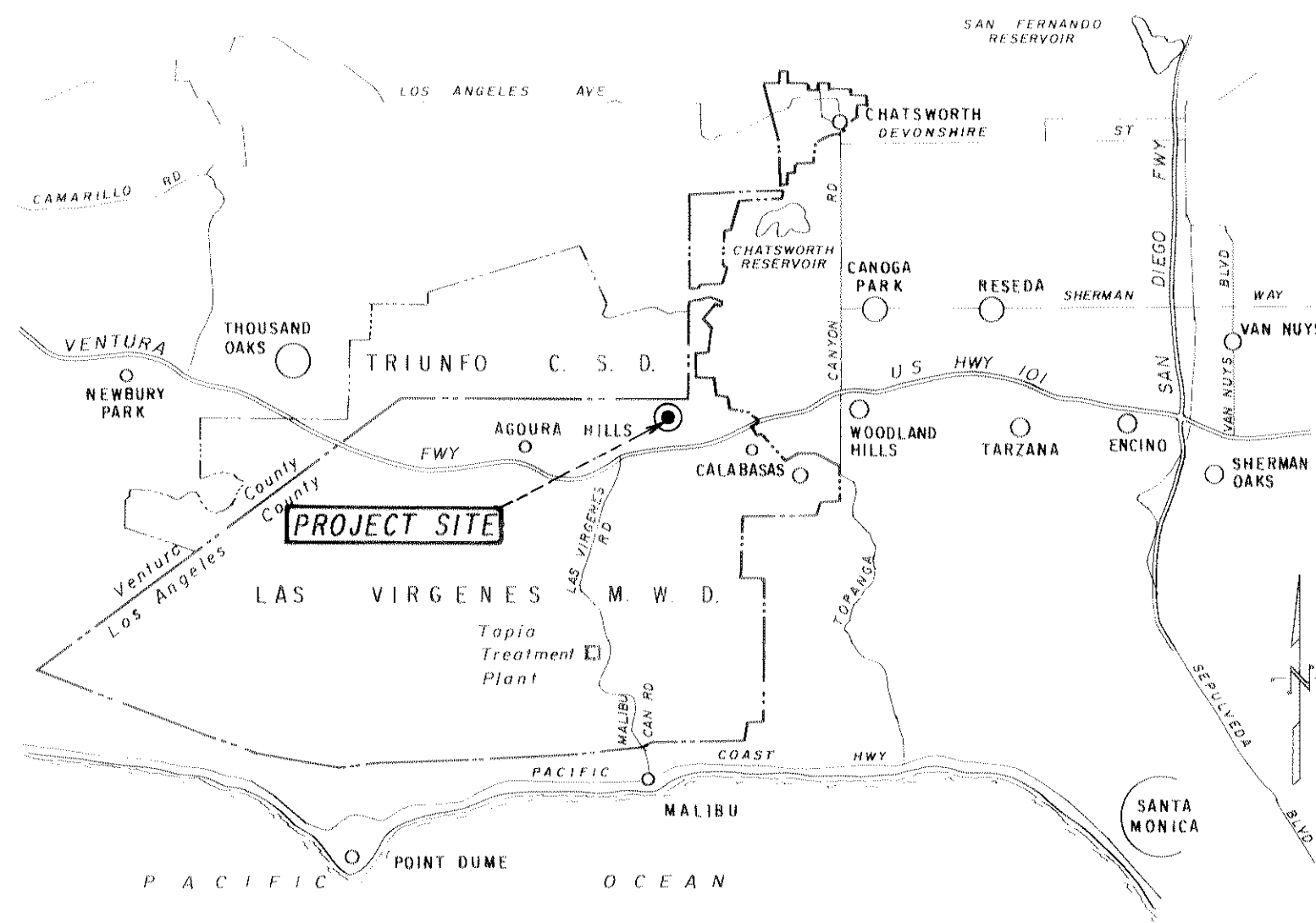
SHEET 20 OF 32

LAS VIRGENES MUNICIPAL WATER DISTRICT

LOS ANGELES COUNTY, CALIFORNIA

CONSTRUCTION PLANS FOR

JED SMITH PUMP STATION AND TANK



VICINITY MAP



* SEE ALSO JED SMITH PIPELINE IMPROVEMENTS

BOARD OF DIRECTORS

A. MACNEIL STELLE - PRESIDENT
ANN DORGELO - VICE PRESIDENT

TAD MATTOCK
GEO. R. LONG
HAROLD V. HELSLEY

RICHARD B. BAIRD - GENERAL MANAGER
H. W. STOKES - CHIEF ENGINEER

Approved by the Board of Directors
on this 26th day of August 1985.

By: [Signature]
A. MACNEIL STELLE - PRESIDENT

By: [Signature]
GEO. R. LONG - SECRETARY

By: [Signature]
RICHARD B. BAIRD - GENERAL MANAGER

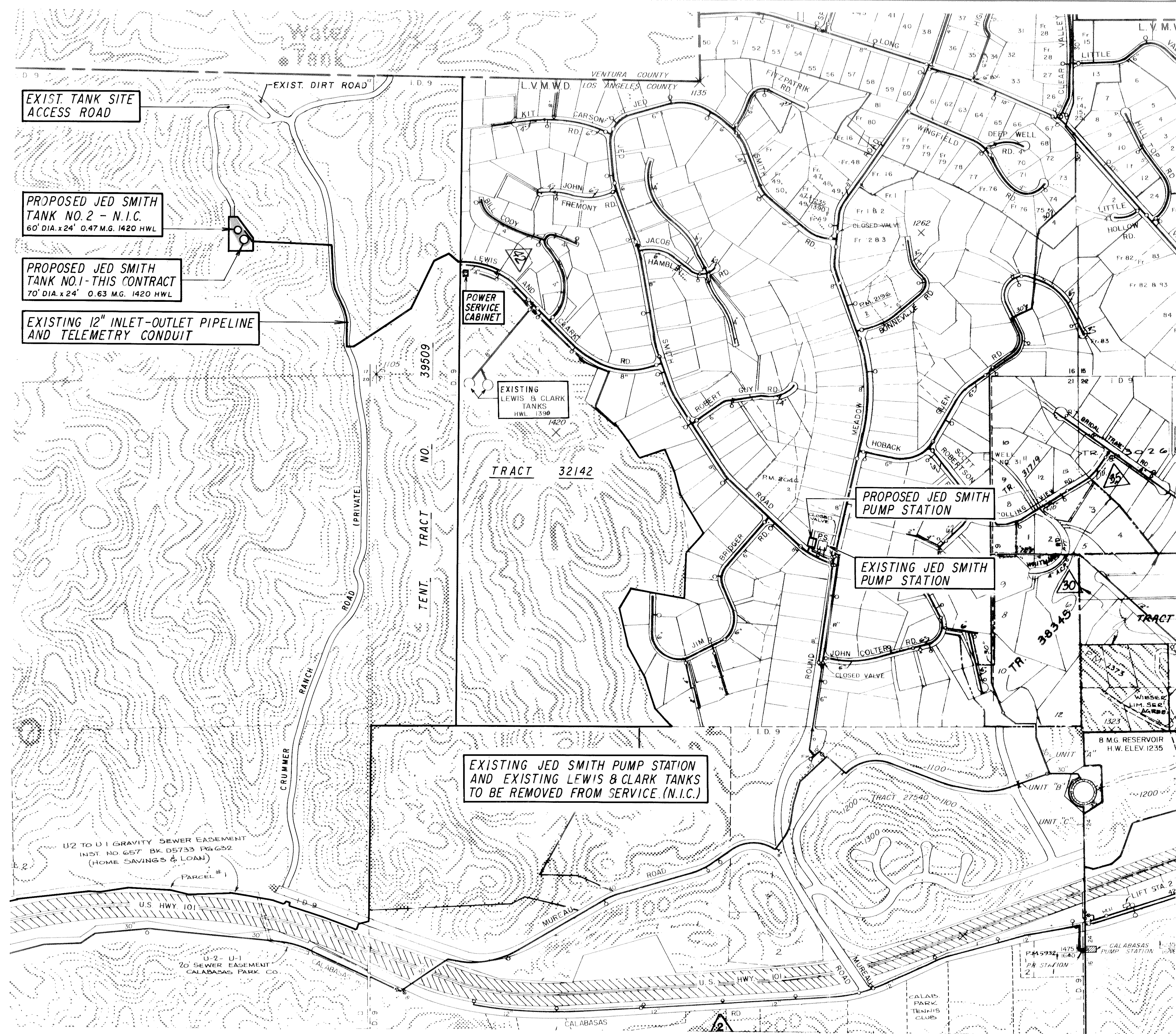
By: [Signature]
H. W. STOKES - CHIEF ENGINEER

05626 01

PLANS PREPARED BY
B. Boyle Engineering Corporation
consulting engineers / architects
Donald F. Mills
DONALD F. MILLS R.C.E. 15940 MANAGING ENGINEER

RECORD DRAWING

DATE: 12/8/87
BY: B.E.C.
DATE: 12/8/87
BY: B.E.C.
DATE: 12/4/87
BY: B.E.C.



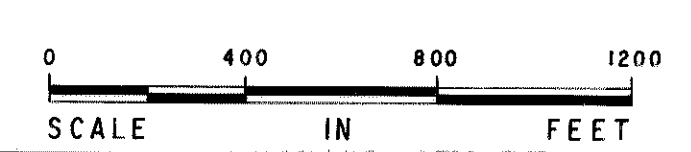
GENERAL NOTES

- PIPELINE ELEVATIONS SHOWN IN PROFILE ARE O.D. TOP OF PIPE.
- TYPE S PIPE IS CEMENT MORTAR LINED AND COATED STEEL WATER PIPE PER LVMWD STD. SPECS.
- ALL FIELD WELDED JOINTS SHALL BE LAP WELD JOINTS UNLESS SHOWN OTHERWISE ON THESE DRAWINGS.
- STEEL PIPE SHALL BE CEMENT MORTAR LINED AND COATED WITH THE MATERIALS SPECIFIED IN SECTION B-2.6 OF THE LVMWD STANDARD SPECIFICATIONS FOR STEEL WATER PIPE AND FITTINGS.
- ALL SURFACES OF BURIED STEEL PIPE AND FITTINGS SHALL BE WRAPPED IN PLASTIC FILM SECURED WITH POLYETHYLENE ADHESIVE TAPE IN ACCORDANCE WITH SECTION C-5 OF THE LVMWD STANDARD SPECIFICATIONS FOR STEEL WATER PIPE AND FITTINGS.
- SEE GENERAL PROVISIONS AND SPECIAL PROVISIONS IN SPECIFICATIONS FOR SHEETING, SHORING, AND BRACING REQUIREMENTS.
- BACKFILL MATERIAL WITHIN THE PIPE ZONE SHALL BE IN CONFORMANCE WITH SECTION 102 OF THE SPECIAL PROVISIONS, PART II - CONSTRUCTION DETAILS AND CROSS SECTIONS 2 AND 3 ON SHEET 9 OF THESE PLANS. BACKFILL MATERIAL ABOVE THE PIPE ZONE SHALL BE IN CONFORMANCE WITH SECTION B-3.2 OF THE LVMWD STANDARD SPECIFICATIONS FOR EARTHWORK (WATER MAINS) AND CROSS SECTIONS 2 AND 3 ON SHEET 9 OF THESE PLANS.
- ANY AREAS ADJACENT TO THE DISTRICT RIGHT-OF-WAY USED BY THE CONTRACTOR FOR EQUIPMENT OR MATERIAL STORAGE SHALL BE RETURNED TO ORIGINAL CONDITIONS PRIOR TO ACCEPTANCE OF THE WORK. FILL MATERIAL, INCLUDING TEMPORARY STOCKPILING, SHALL NOT BE PLACED IN ANY NATURAL WATERCOURSE, EXCEPT AS SHOWN ON THE DRAWINGS.
- ALL ABOVE-GROUND APPURTENANCES SHALL BE PAINTED IN ACCORDANCE WITH THE LVMWD STANDARD SPECIFICATIONS FOR PAINTING AND SECTION 119 OF THE SPECIAL PROVISIONS, PART II - CONSTRUCTION DETAILS.

LIST OF DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX SHEET
3	PUMP STATION SITE LAYOUT AND LIST OF MATERIALS
4	PUMP STATION PLAN AND SECTION
5	METER VAULT AND SURGE TANK
6	ELEVATIONS, ROOF, AND FOUNDATION PLANS
7	PUMP BUILDING STRUCTURAL AND ROOF REINFORCING PLAN
8	TANK SITE LAYOUT AND RINGWALL
9	INLET/OUTLET PIPELINE PROFILE AND DRAINAGE DETAILS
10	TANK LAYOUT AND DETAILS
11	MISCELLANEOUS TANK DETAILS
12	LEVEL TRANSMITTER AND TANK CLEANOUT DETAILS
13	ELECTRICAL SITE PLAN AND SYMBOLS
14	SINGLE LINE DIAGRAM AND SCHEMATICS
15	ELECTRICAL PLANS
16	INSTRUMENTATION LEGEND AND SYMBOLS
17	PROCESS & INSTRUMENTATION DIAGRAM

PLAN



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 (U.S.A.): 1-800-422-4133.

REV.	DATE	DESCRIPTION
1	4-21-86	SHTS. 3-6, 15
2	3-19-86	SHT. 3
3	1-20-86	SHTS. 1-6, 15
4	1-20-86	ISSUED FOR CONSTRUCTION

RECORDED & INDEXED

MWT
JPH
R.V.

BEL
BEC
BES.

12/8/87
12/8/87
12/8/87

05627 01

N.I.C. DENOTES NOT IN CONTRACT

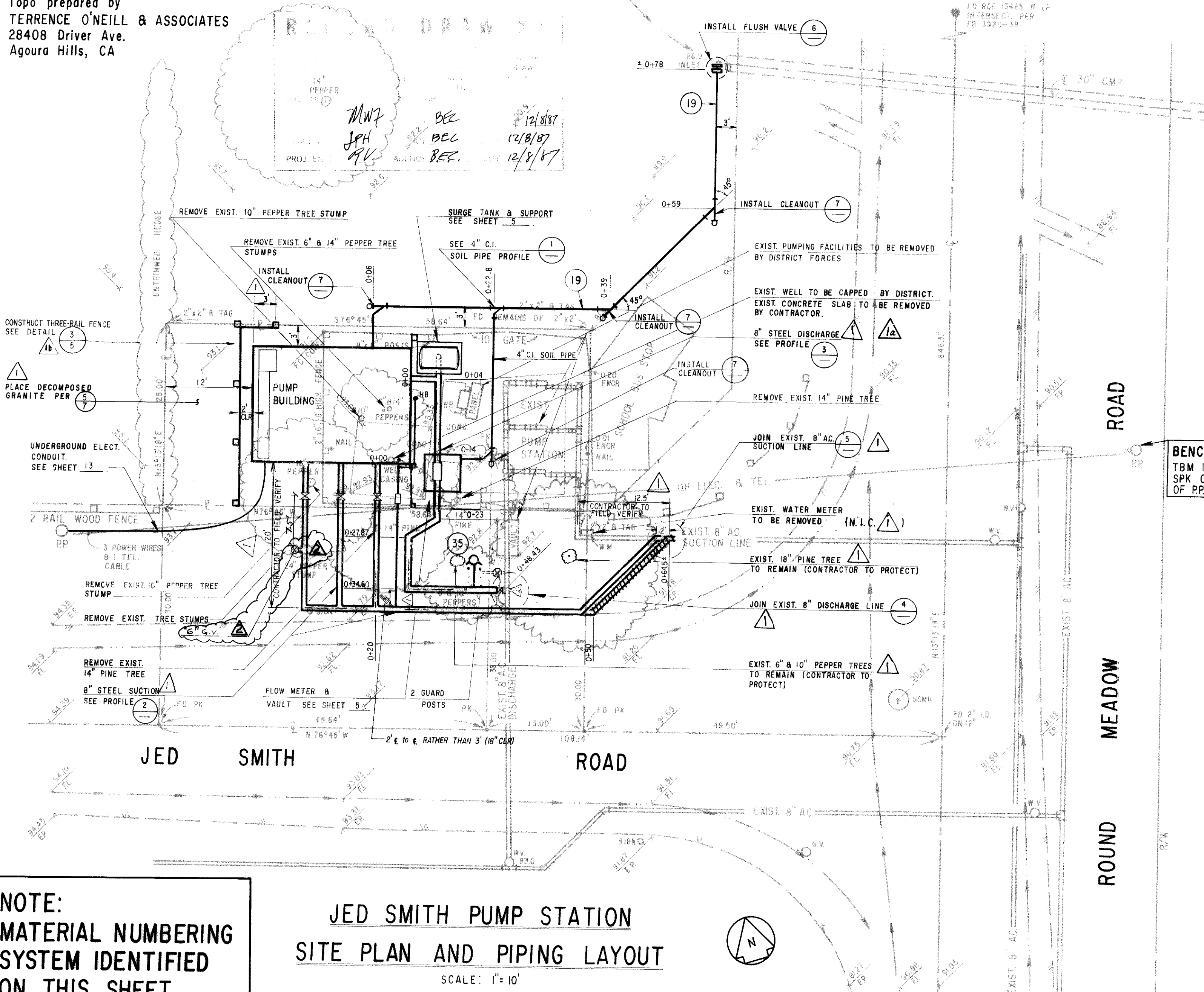
LAS VIRGENES MUNICIPAL WATER DISTRICT

JED SMITH PUMP STATION AND TANK

INDEX SHEET

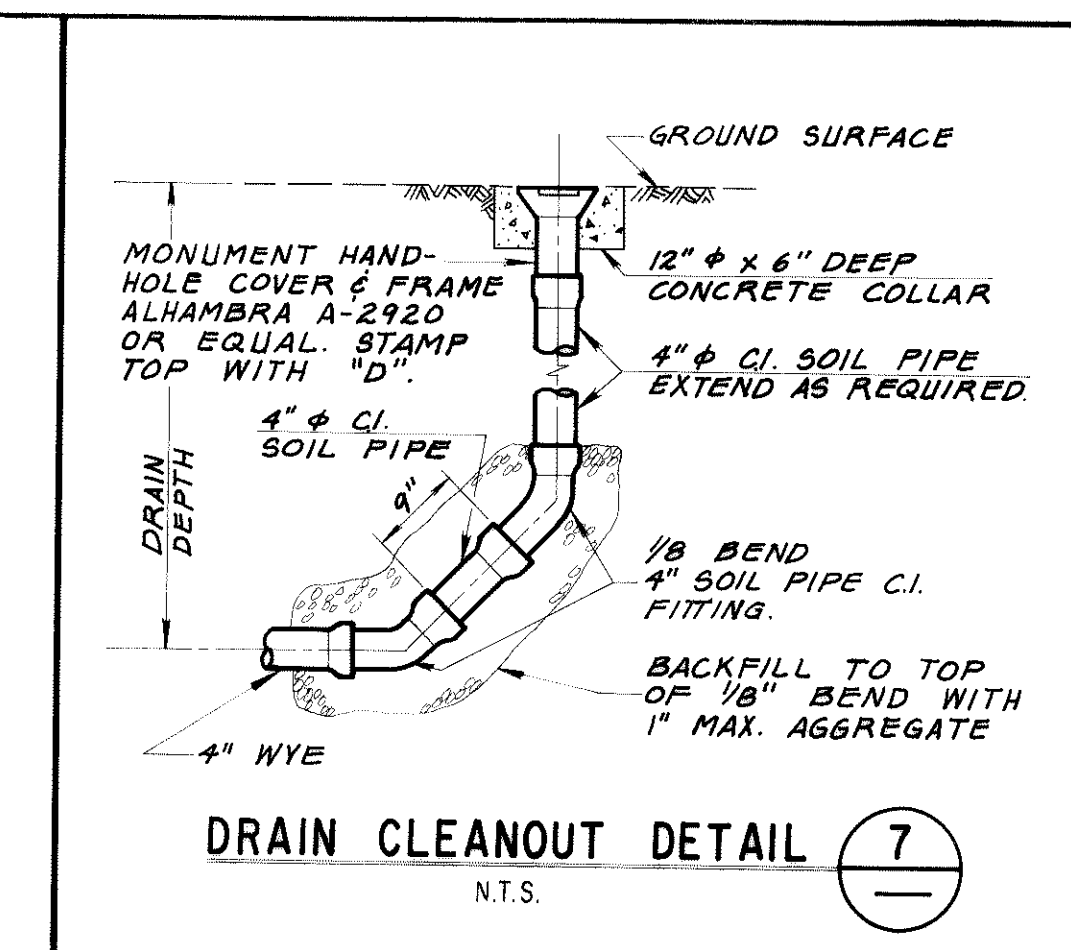
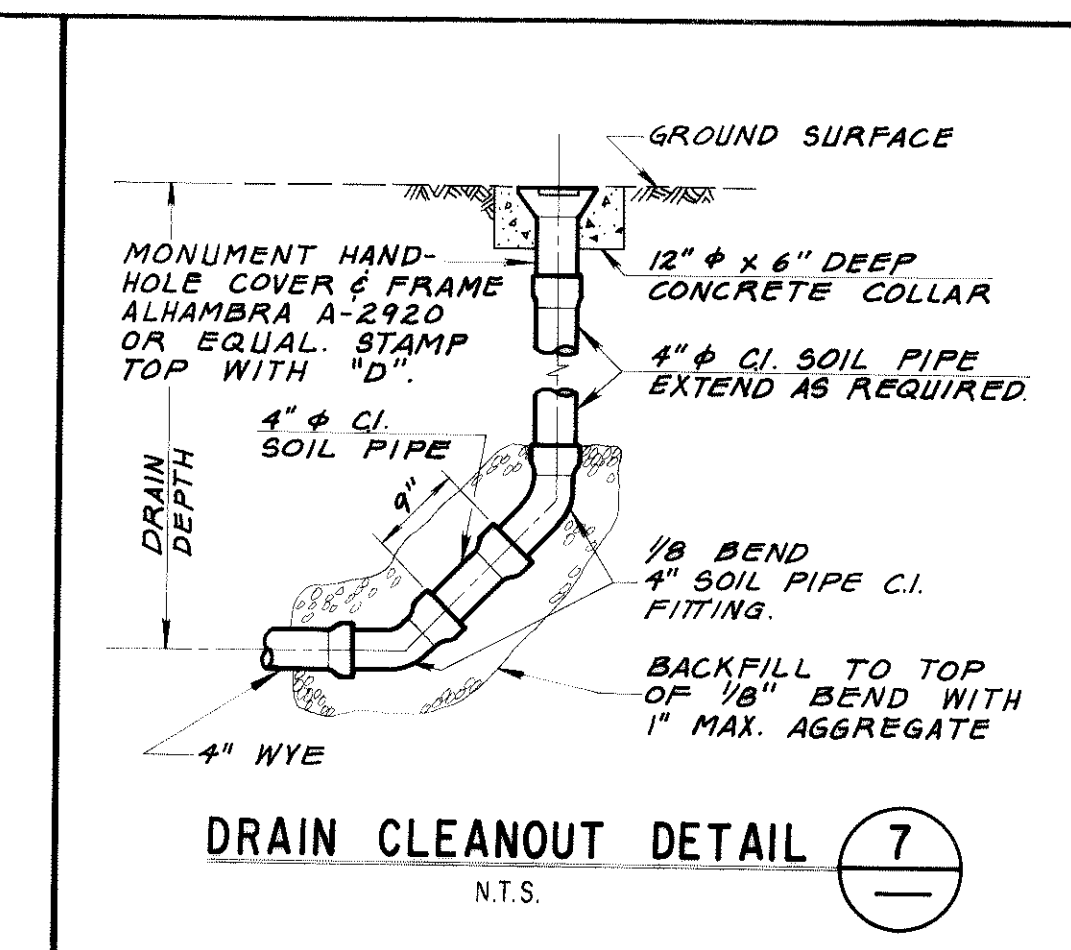
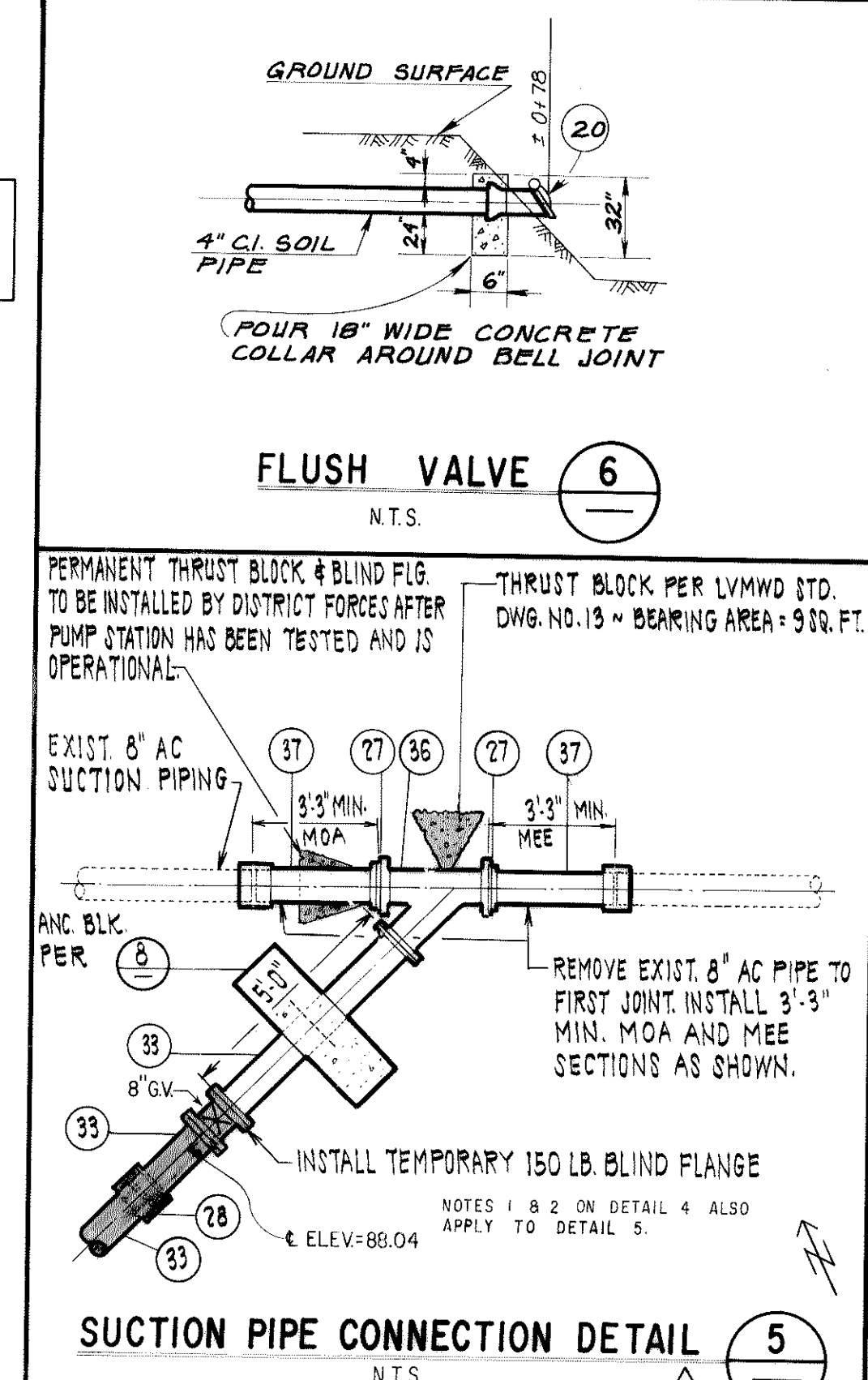
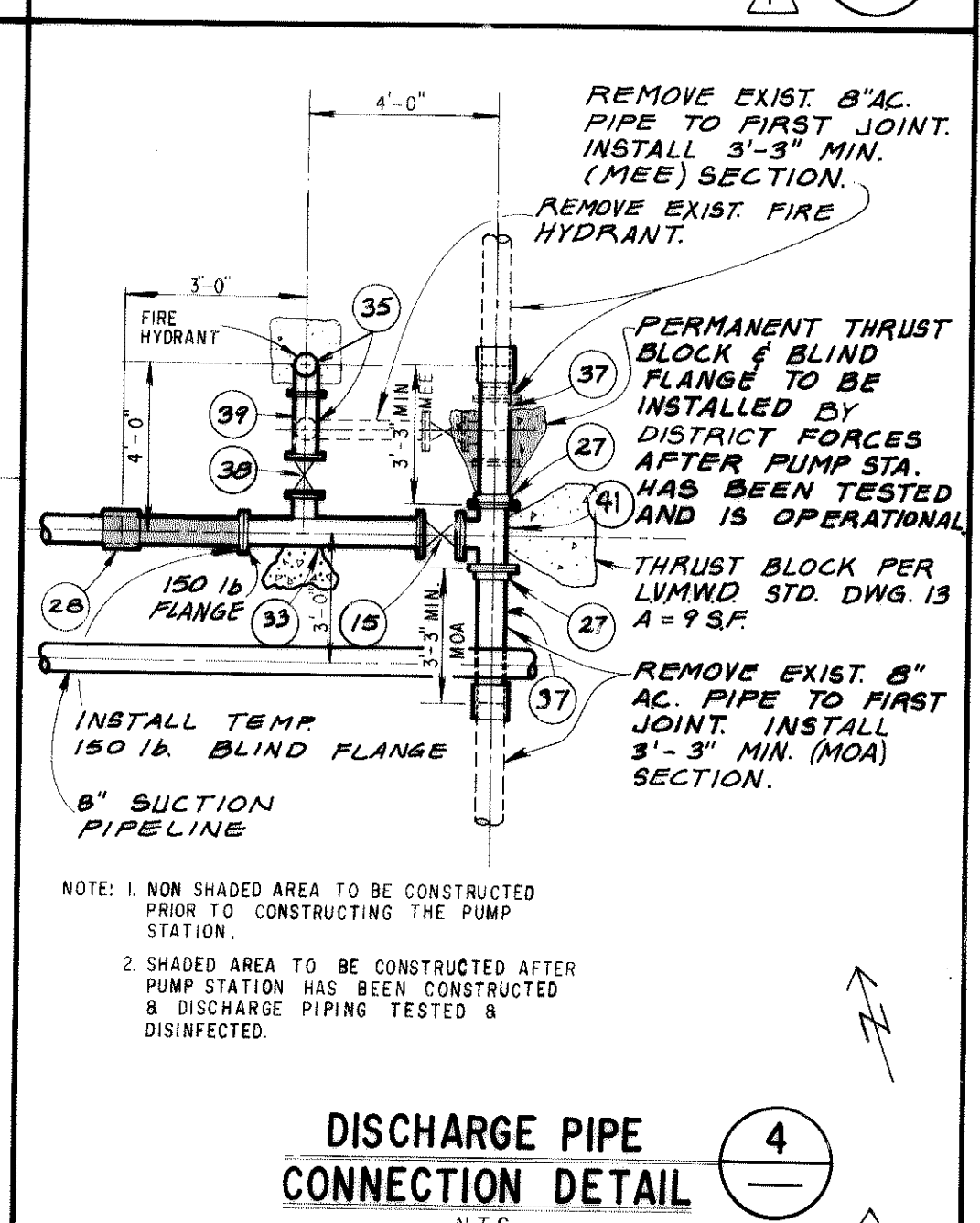
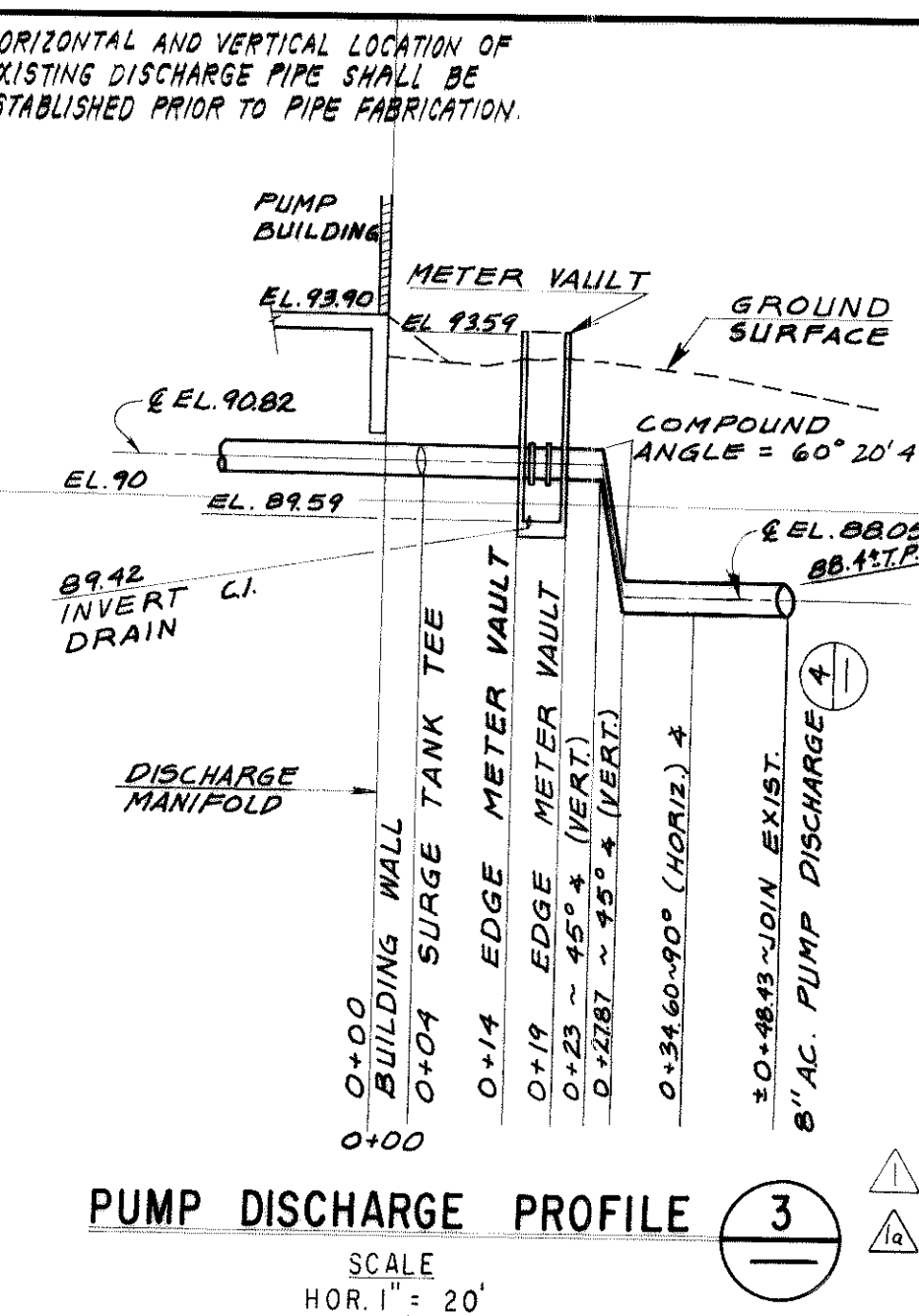
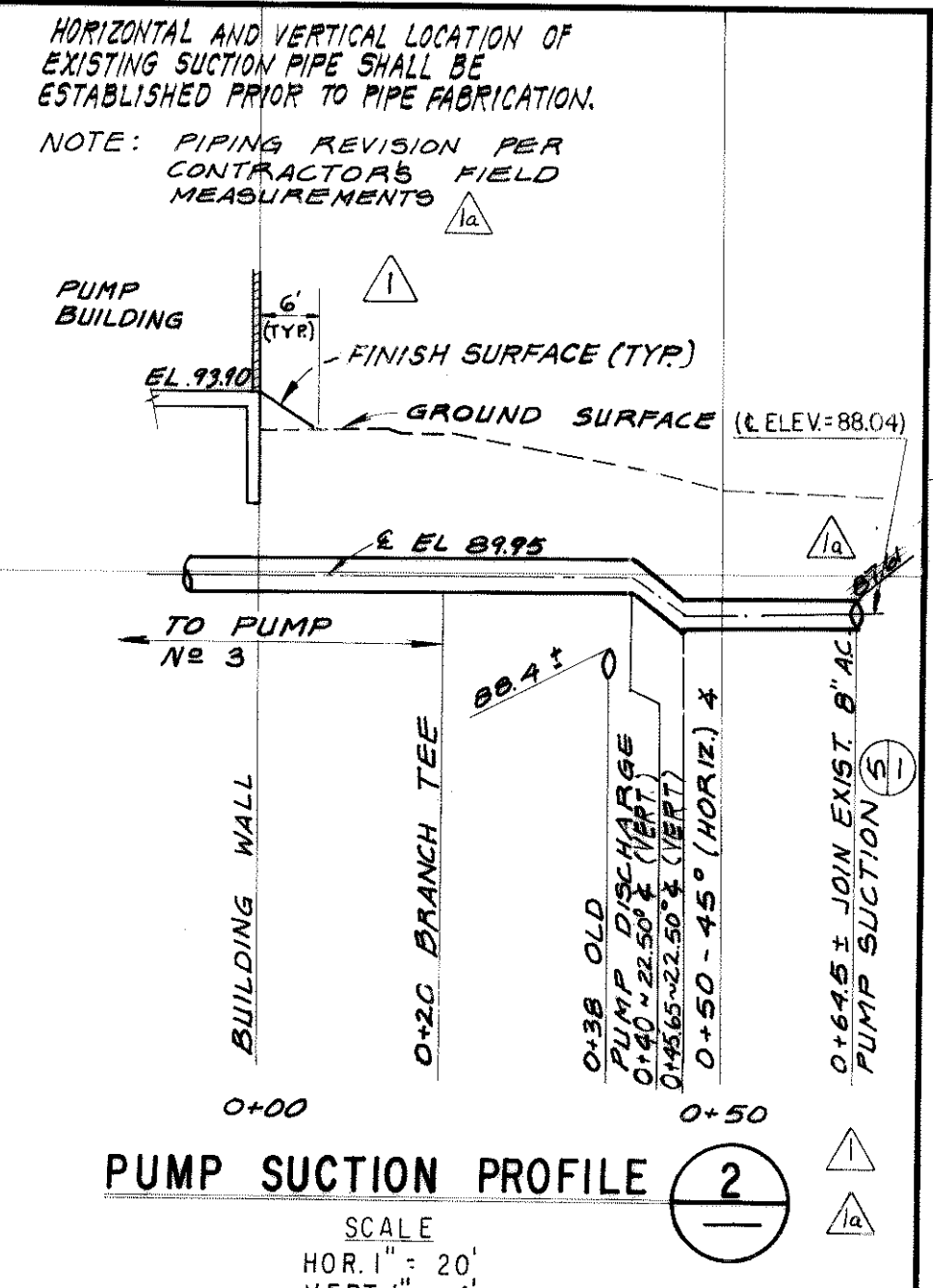
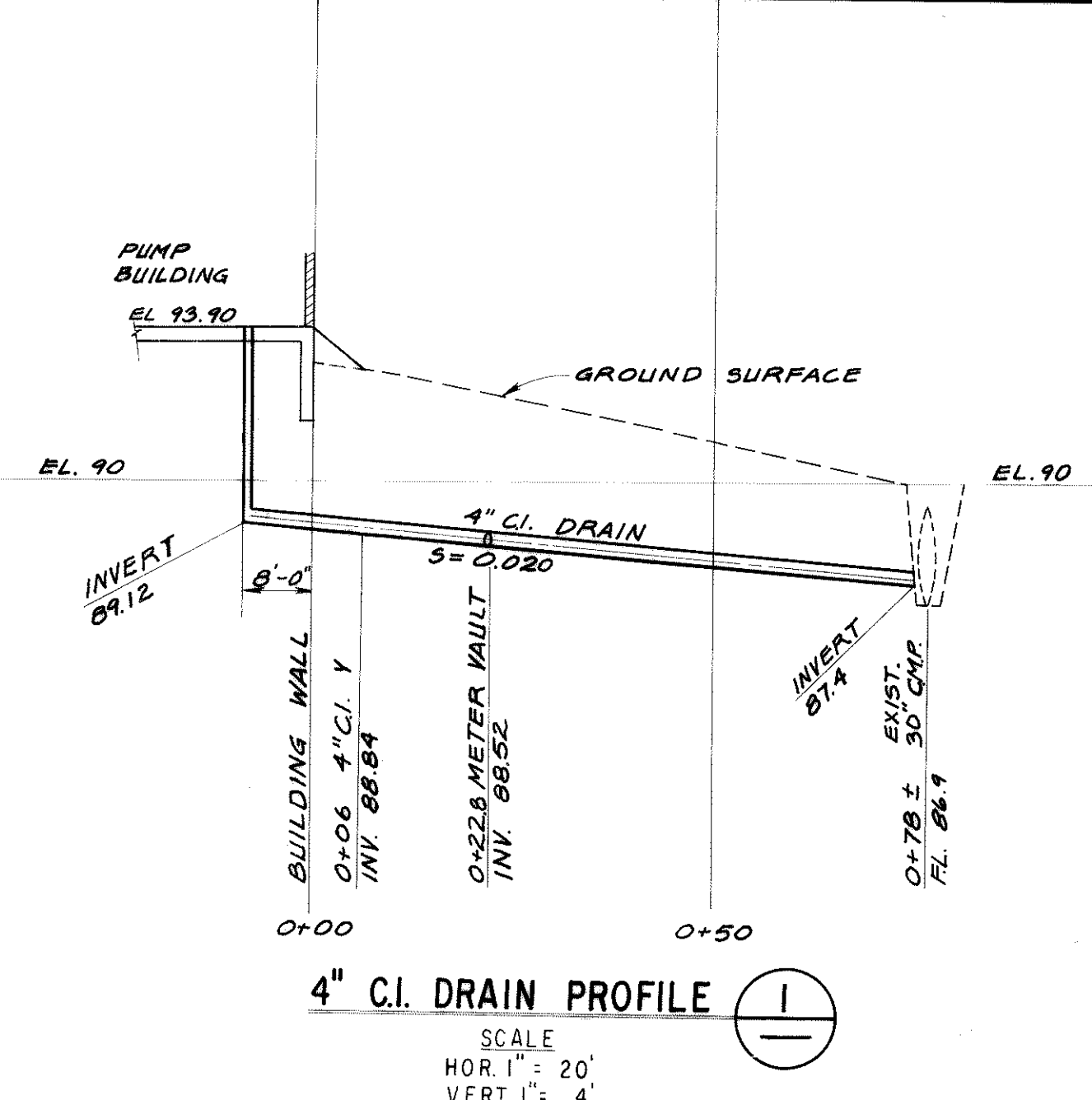
DESIGN P.C.D.	DATE 3-19-86	<p>Boyle Engineering Corporation CONSULTING ENGINEERS / ARCHITECTS VENTURA, CA.</p>	SHEET NO. 2
CHECKED J.P.H.	DATE 1-20-86		OF 17 SHEETS WT-102-183-01/02 DWG. NO. S-195

Topo prepared by
TERRENCE O'NEILL & ASSOCIATES
 28408 Driver Ave.
 Agoura Hills, CA



NOTE:
 MATERIAL NUMBERING
 SYSTEM IDENTIFIED
 ON THIS SHEET.

**JED SMITH PUMP STATION
 SITE PLAN AND PIPING LAYOUT**
 SCALE: 1" = 10'



GENERAL NOTES

- ALL MATERIAL SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE SPECIAL PROVISIONS-CONSTRUCTION DETAILS, THE DRAWINGS AND THE LVWD STANDARD SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN THE STANDARDS AND SPECIAL PROVISIONS, THE SPECIAL PROVISIONS SHALL CONTROL.
- BENCH MARK AND ELEVATIONS - THE BENCH MARK FOR THE PROJECT IS BL.1091.6, BEING A SPIKE ON THE EASTSIDE OF A POWER POLE ON ROUND MEADOW ROAD AS SHOWN ON THE PLANS. ADD 1000 FEET TO ALL ELEVATIONS SHOWN ON THE PLANS.
- REPLACE AND PAINT THE EXISTING FENCE IN KIND AND TO THE LINES SHOWN ON THE PLANS.
- ALL FLANGES SHALL BE FLAT FACE.

LIST OF MATERIAL

- VERTICAL TURBINE PUMP, MOTOR AND ACCESSORIES
- PRESSURE GAUGE 0-400 PSI AND PRESSURE SWITCH
- 6-INCH STEEL PIPE SPOOL (300 LB STEEL FLANGE X GROOVED END) WITH 1-INCH EXTRA HEAVY STEEL HALF COUPLING.
- GROOVED COUPLING PER LINE SIZE.
- 6-INCH DIAPHRAGM ACTUATED PUMP CONTROL VALVE WITH ELECTRICAL SOLENOID AND LIMIT SWITCH. (250 LB. CAST IRON FLANGES).
- 6-INCH STEEL PIPE SPOOL (150 LB STEEL FLANGE X 300 LB STEEL FLANGE) WELD 1-INCH EXTRA HEAVY STEEL HALF-COUPLING TO PIPE AND PROVIDE PLUG.
- 6-INCH 150 LB FLANGED BUTTERFLY VALVE AND VALVE OPERATOR WITH HAND WHEEL PER LVWD STANDARDS.
- 6-INCH STEEL PIPE SPOOL (150 LB STEEL FLANGE X GROOVED END).
- 6-INCH 90° SHORT RADIUS STEEL ELBOW WITH 3-INCH EXTENSION ON EACH GROOVED END.
- 6-INCH STEEL PIPE VERTICAL BRANCH ON DISCHARGE MANIFOLD (WELDED X GROOVED END).
- ADJUSTABLE PIPE SUPPORT WITH STEEL PIPE RISER AND FLOOR FLANGE, GRINNEL FIGURE 264 OR EQUAL.
- MANUAL AIR RELEASE 3/4" STEEL OUTLET WITH 3/4" COCK MUELLER H-8310.
- 8-INCH FLEXIBLE COUPLING.
- 8-INCH STEEL PIPE SPOOL (PLAIN END X 150 LB STEEL FLANGE).
- 8-INCH 150 LB FLANGED RESILIENT SEAT GATE VALVE (WORKING PRESSURE 200 PSI) PROVIDE VALVE OPERATOR COVER PER LVWD STANDARD DRAWING NO. 11.
- 10-INCH STEEL PIPE MANIFOLD.
- 9-INCH TOP, HEAVY DUTY CAST IRON FLOOR DRAIN WITH GRATE AND 4-INCH OUTLET, ZURN Z-508 OR EQUAL.
- 4-INCH CAST IRON SOIL PIPE, HUB X SPIGOT ENDS.
- 4-INCH BELL END CAST IRON FLOOR VALVE FRAME AND LID, NEENAH FOUNDRY B-5040 OR EQUAL. POUR CONCRETE COLLAR AROUND PIPE AND EMBED IN EARTH.
- VICTAULIC STYLE 741 150 LB. STEEL FLANGE PER LINE SIZE (WORKING PRESSURE 275 PSI).
- EXHAUST FAN PER SPECIFICATIONS.
- 1-INCH METER SERVICE AND MAIN LINE CONNECTION PER LVWD STANDARD DRAWING NO. 16.
- TYPE K COPPER TUBING ASTM B88 PER LINE SIZE.
- 3/4-INCH BRONZE HOSE BIB ASTM B62 (PRESSURE RATING 150 PSI, GRAIN NO. 58 OR EQUAL).
- 1-INCH EXTRA HEAVY STEEL HALF COUPLING WITH INSULATING BUSHING. INSTALL 1/2-INCH COPPER STOP JAMES JONES J-1505 OR EQUAL. JOIN TO TYPE K COPPER TUBING PER LINE SIZE SHOWN ON DRAWINGS.
- FLANGED COUPLING ADAPTER, ROCKWELL TYPE 916 OR EQUAL.
- BUTT STRAP CLOSURE PER LVWD STANDARD DRAWING NO. 7
- TWO PIECE ALUMINUM COVER, ASSOCIATED CONCRETE PARKWAY COVER (STC TORSION) OR EQUAL. PROTECT ALL ALUMINUM IN CONTACT WITH CONCRETE.
- 4' X 4' PRECAST METER VAULT. ASSOCIATED CONCRETE DRAWING NPB-3100 (4'-6") OR EQUAL. ALL VAULT JOINTS SHALL BE SEALED WITH POLYURETHANE SEALER.
- 8-INCH 150 PSI PROPELLER METER WITH TRANSMITTER PER THE SPECIFICATIONS.
- 8-INCH STEEL PIPE SPOOL (150 LB FLANGE X GROOVED END).
- 8-INCH CML & C STEEL PIPE. PIPE ENDS SHALL BE ALL WELDED UNLESS SHOWN OTHERWISE.
- 6-INCH CML & C STEEL PIPE. PIPE ENDS SHALL BE ALL WELDED UNLESS SHOWN OTHERWISE.
- REMOVE EXISTING FIRE HYDRANT. INSTALL NEW FIRE HYDRANT PER LVWD STANDARD DRAWING NO. 8. MODIFY MINIMUM LENGTH PER THE PLANS.
- 8" x 8" x 8" CEMENT MORTAR LINED CAST IRON WYE WITH 150 LB. FLANGED ENDS.
- 8-INCH A.C. CLASS 150 ASBESTOS CEMENT PIPE INCLUDING COUPLINGS.
- 6-INCH 150 LB FLANGED RESILIENT SEAT GATE VALVE (WORKING PRESSURE 200 PSI) PROVIDE VALVE OPERATOR COVER PER LVWD STANDARD DRAWING NO. 11.
- 6-INCH CML & C STEEL PIPE SPOOL (150 LB FLANGED X 150 LB FLANGED).
- STEEL LADDER, HOT-DIPPED GALV., 16" CLEAR WIDTH, 3/4" DIA. RUNGS, 12" RUNG SPACING, ATTACHED TO WALL WITH 1/2" DIA. ANCHOR BOLTS. LADDER AND INSTALLATION SHALL COMPLY WITH ALL CAL-OSHA REQUIREMENTS FOR FIXED LADDERS.
- 8" x 8" x 8" CEMENT MORTAR LINED CAST IRON TEE WITH 150 LB. FLANGED ENDS.

ANCHOR BLOCK DETAIL (8)
 PLAN
 ELEVATION
 N.T.S.

05628-01

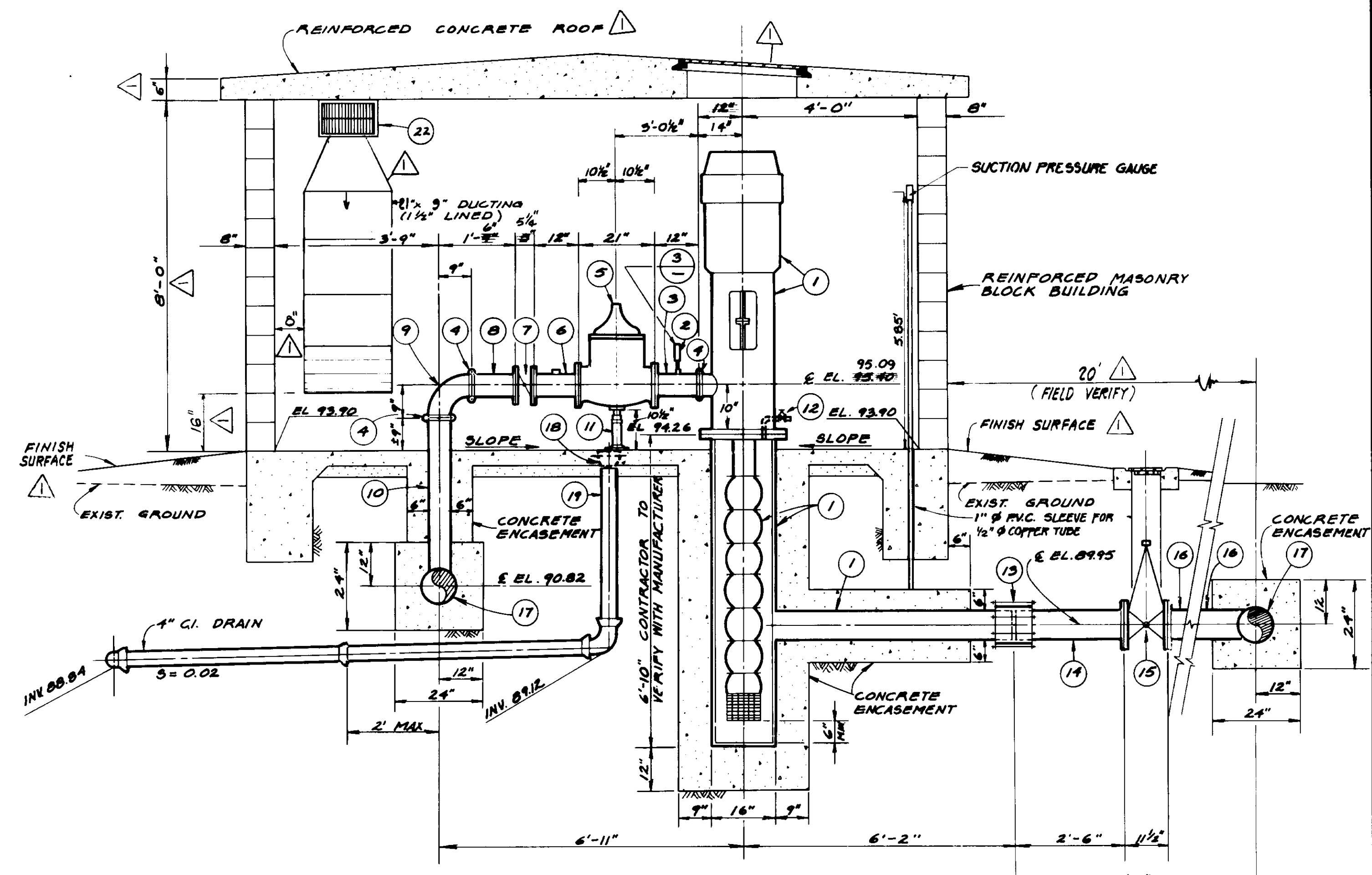
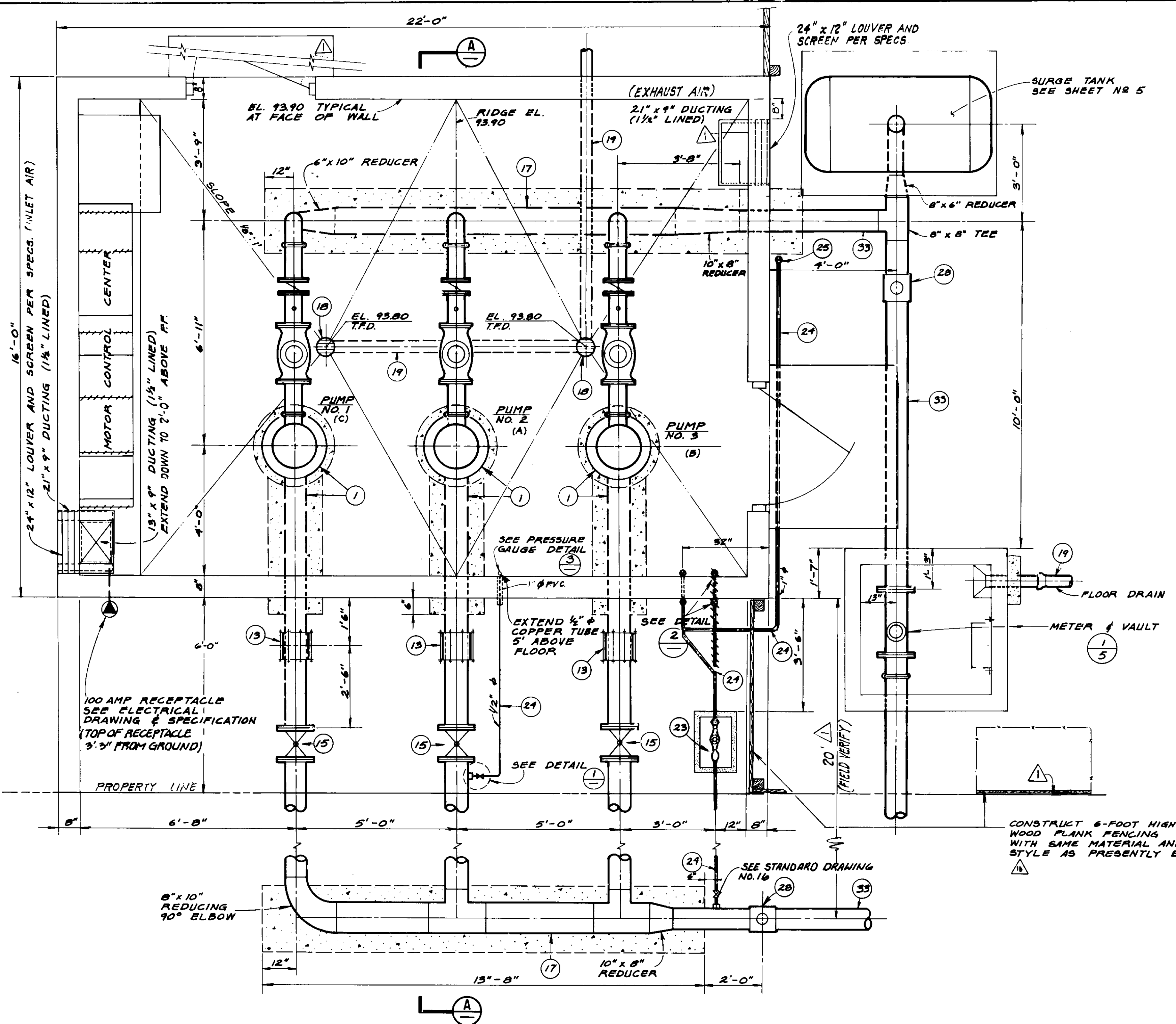
LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION AND TANK
PUMP STATION SITE LAYOUT
AND
LIST OF MATERIALS

REV	DATE	DESCRIPTION	APP
1	3-19-86	INSTALL 6" GATE VALVE	
2	4-21-86	CHANGE ORDER NO. 1: ADD'L PIPE MODIFICATIONS.	JEL
3	4-21-86	CHANGE ORDER NO. 2: FENCE MODIFICATIONS.	JEL
4	1-20-86	CHANGE ORDER NO. 1: BLDG. MODIFICATIONS.	JEL
5	1-20-86	ISSUED FOR CONSTRUCTION	JEL

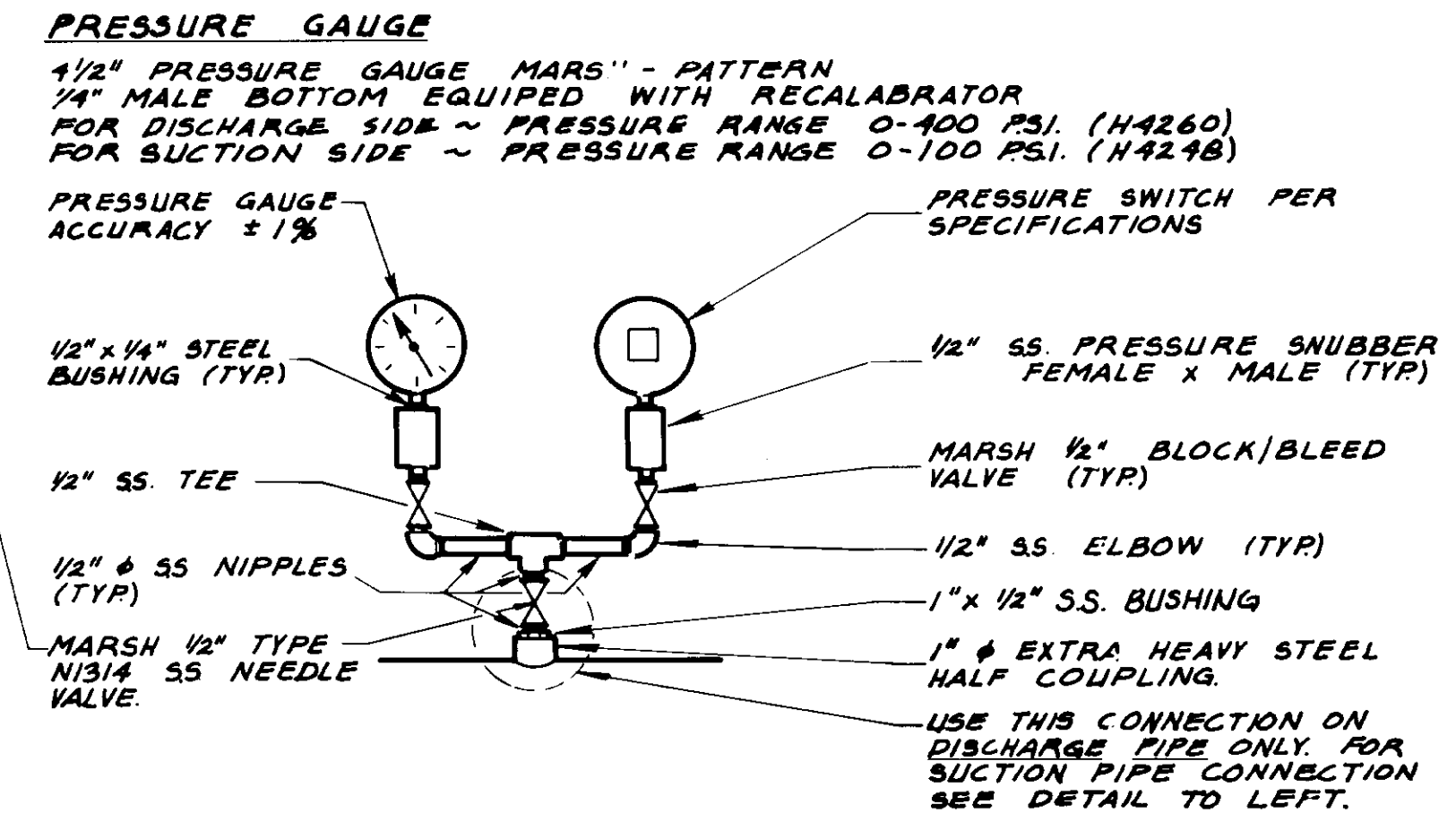
DESIGN: RY
 DRAWN: JEL
 CHECKED: JEL
 DATE: 8/14/85
 DATE: 7/14/85
 DATE: 8/14/85

Boyle Engineering Corporation
 CONSULTING ENGINEERS / ARCHITECTS
 VENTURA, CA

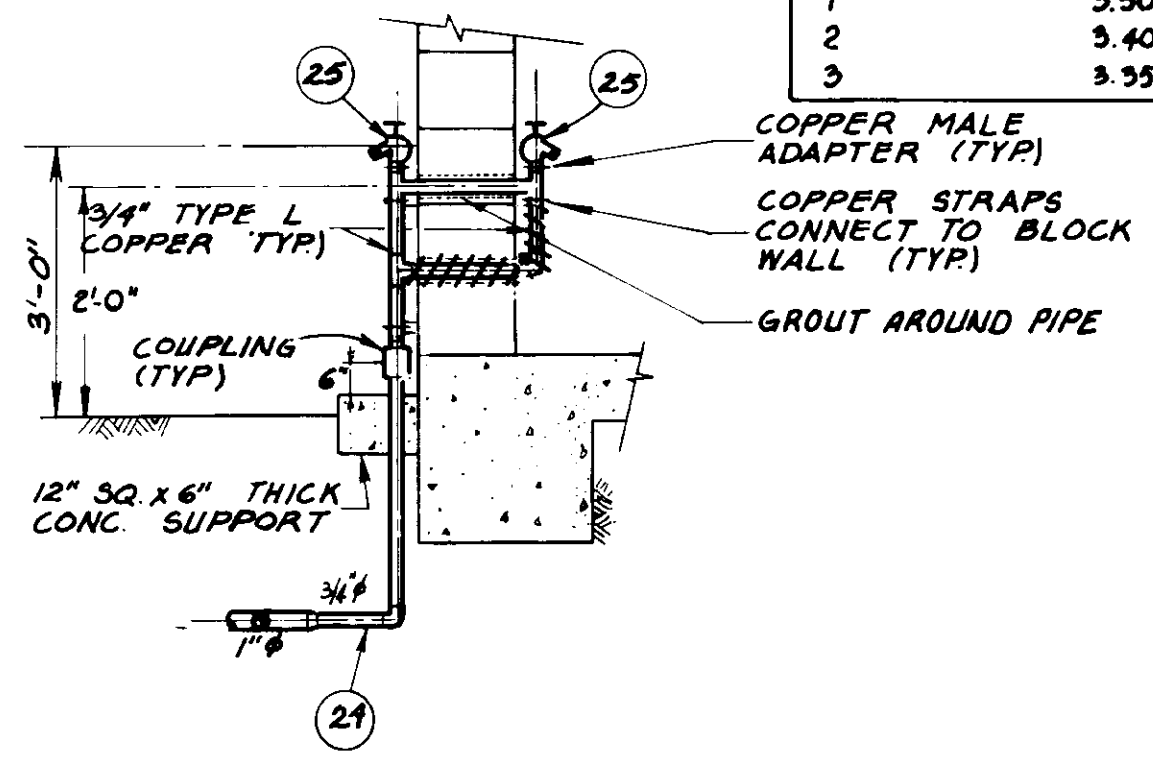
3 OF 17 SHEETS
 DWG. NO. 8-195



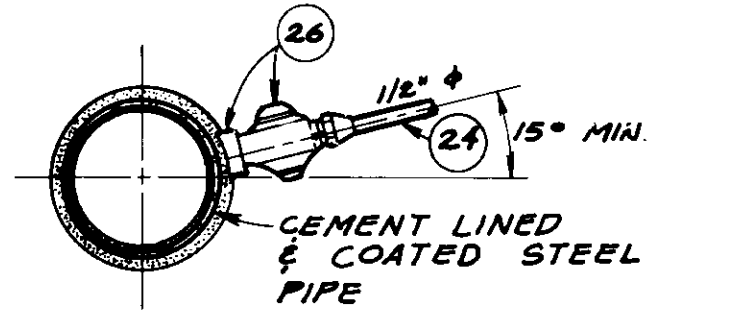
SECTION A
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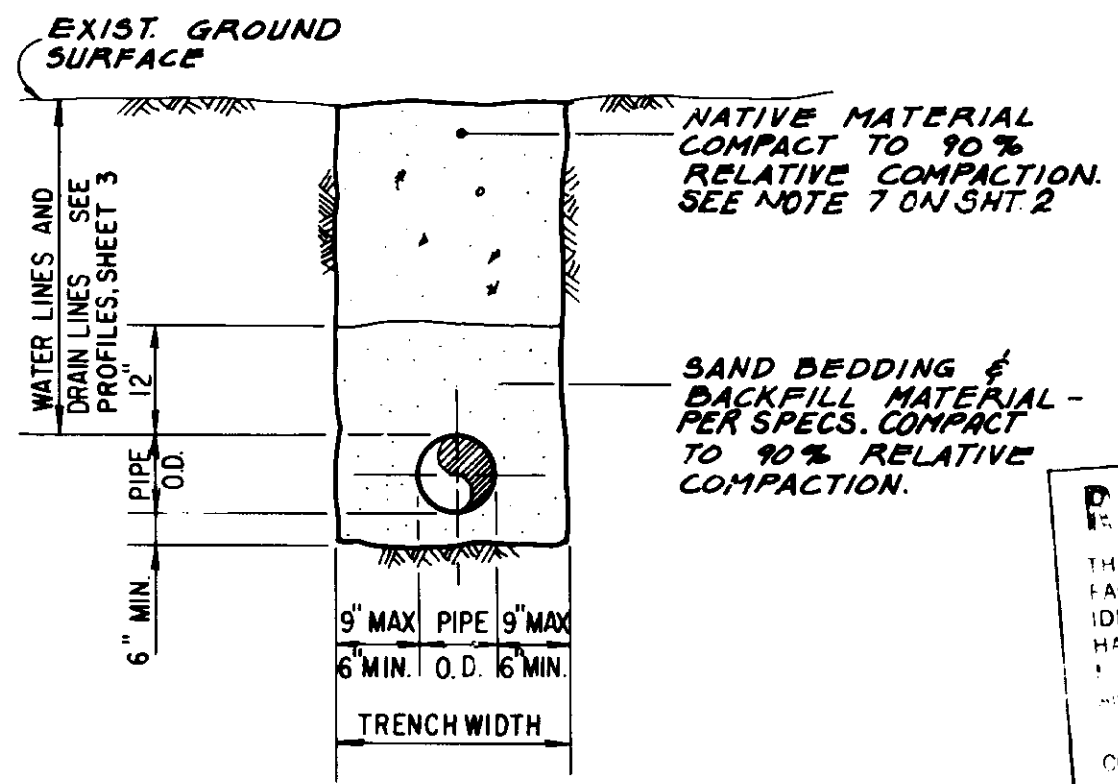
PRESSURE GAUGE DETAIL
NOT TO SCALE



HOSE BIBB DETAIL
NOT TO SCALE



CORPORATION STOP DETAIL
NOT TO SCALE



TRENCH SECTION
NOT TO SCALE

RECORD DRAWING

THIS RECORD DRAWING IS TO BE MAINTAINED AT THE PROJECT OFFICE FOR THE LIFE OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AND CORRECT ANY DISCREPANCIES BETWEEN THIS DRAWING AND THE FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING.

DATE: 12/18/87

DATE: 12/18/87

DATE: 12/18/87

NOTE:
MATERIAL NUMBERING SYSTEM IDENTIFIED ON SHEET 3.

05629

LAS VIRGENES MUNICIPAL WATER DISTRICT

JED SMITH PUMP STATION AND TANK

PUMP STATION PLAN & SECTION

REV	DATE	DESCRIPTION	BY	APP
1	1-20-86	CHANGE ORDER NO. 1b	FEL	
2	1-20-86	CHANGE ORDER NO. 1 "DG MODIFICATIONS"	FEL	
3	1-20-86	ISSUED FOR CONSTRUCTION	FEL	

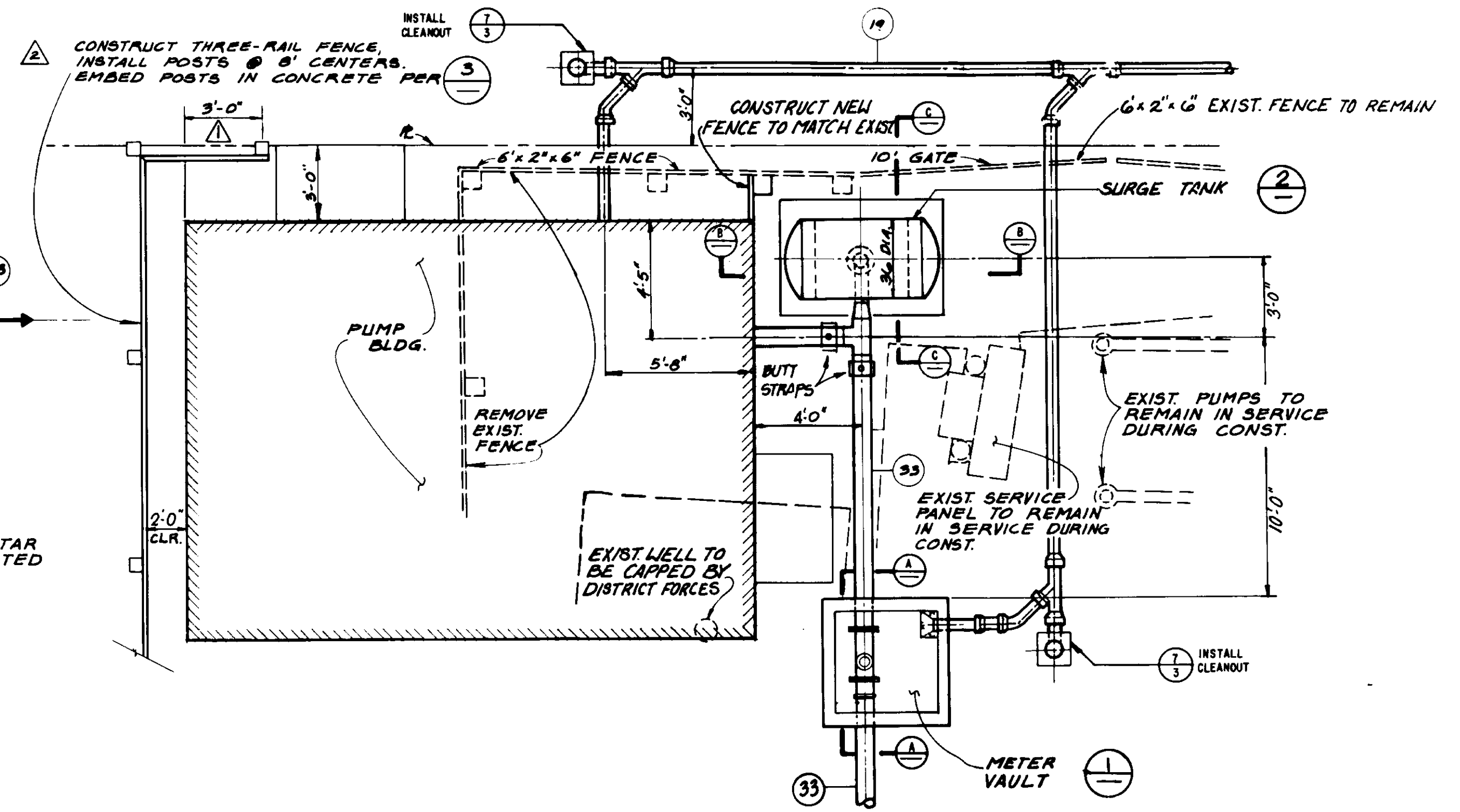
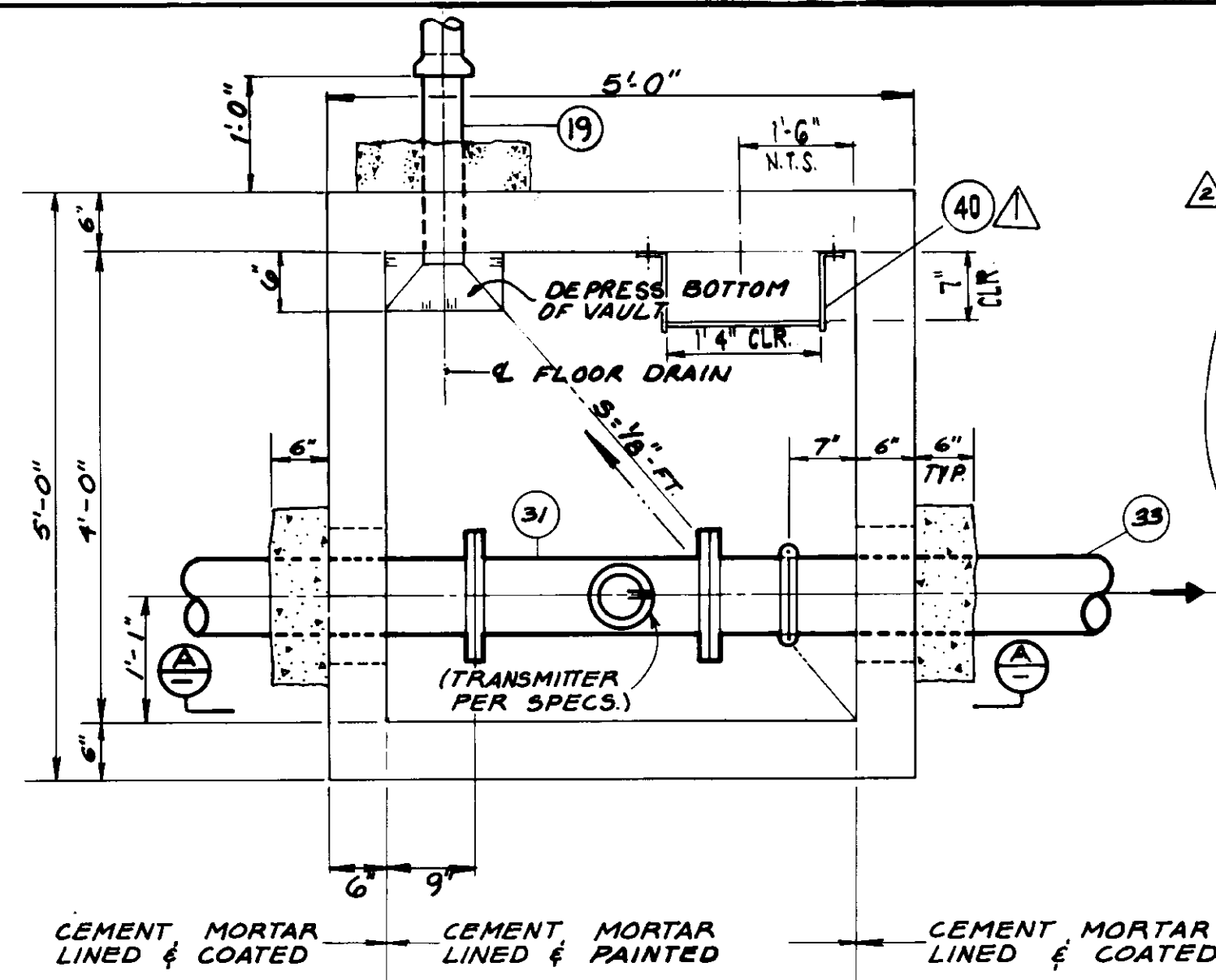
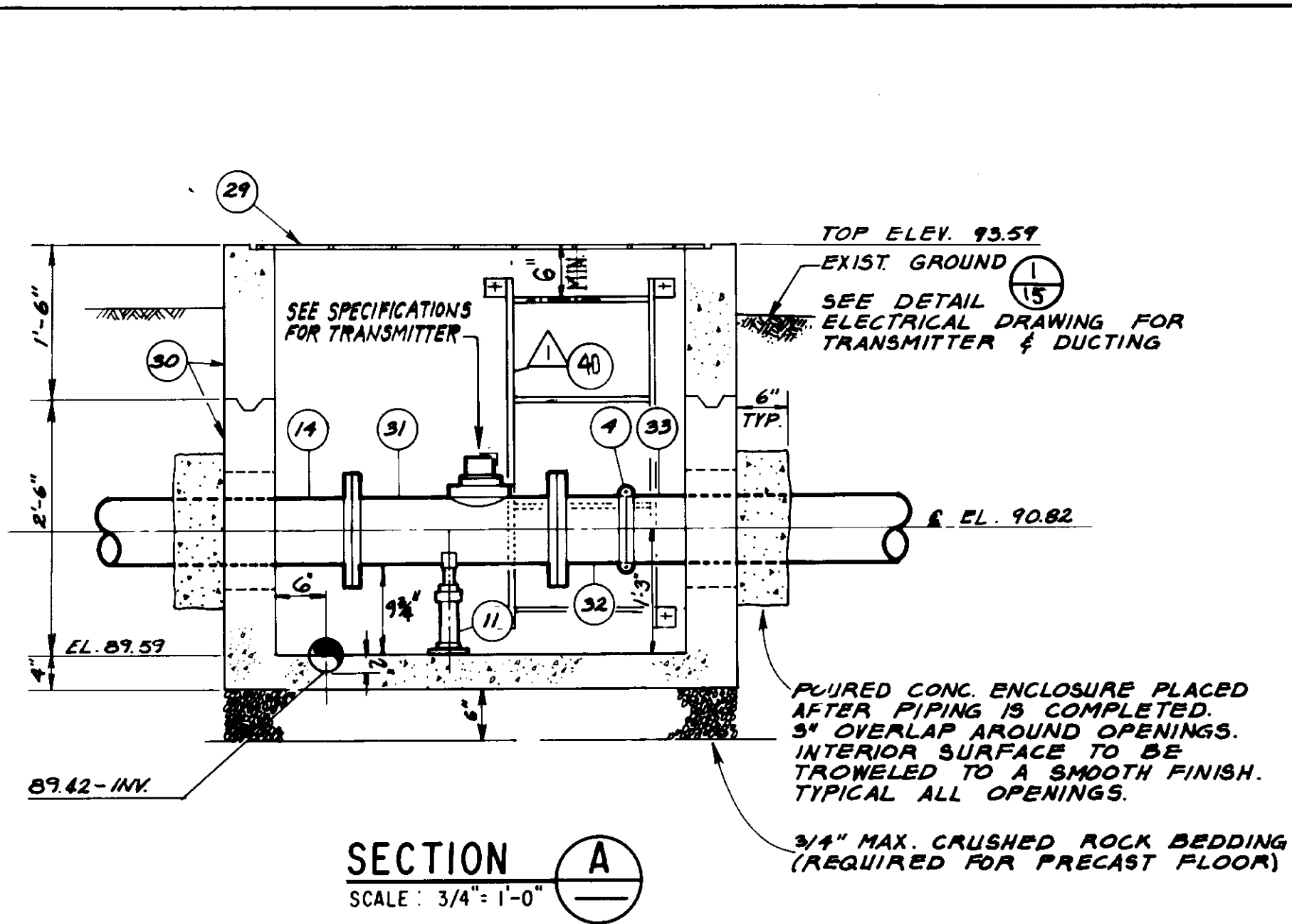
DESIGN: R/V
DRAWN: D/W
CHECKED: R/W
DATE: 1/14/85

Boyle Engineering Corporation
consulting engineers / architects
VENTURA, CA

Robert Williams
DATE: 5/14/85
P.C.E. 21357

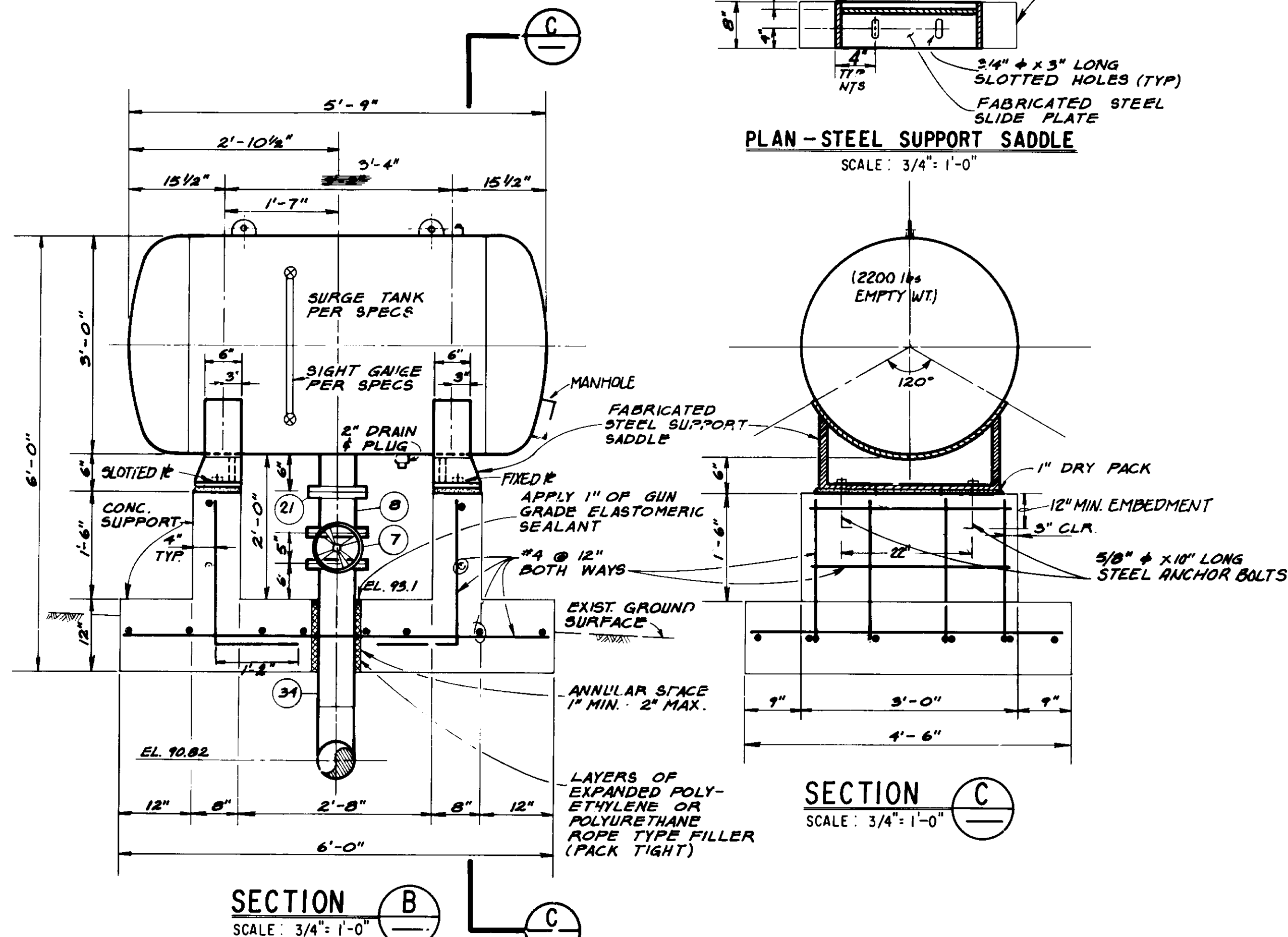
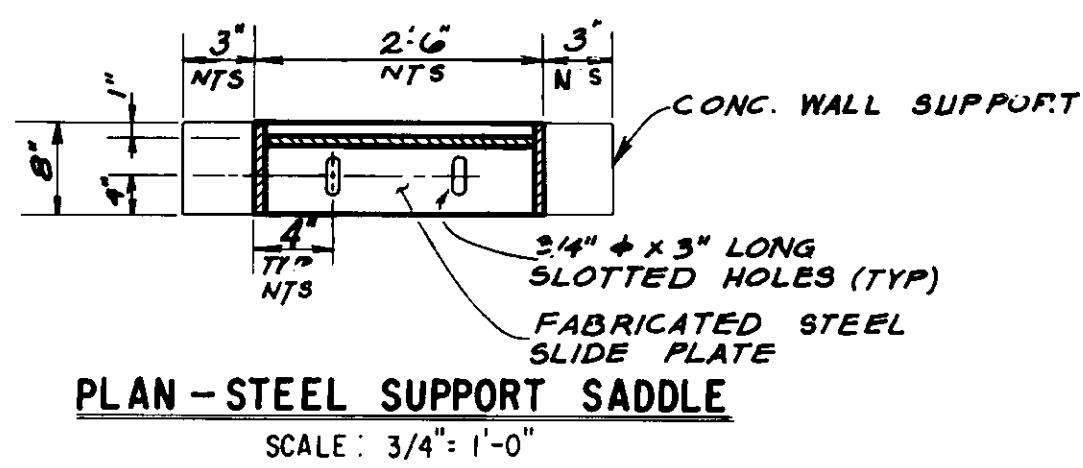
SHEET NO. 4 OF 17

VT-L28 153-0-00
DWG. NO. 6-493



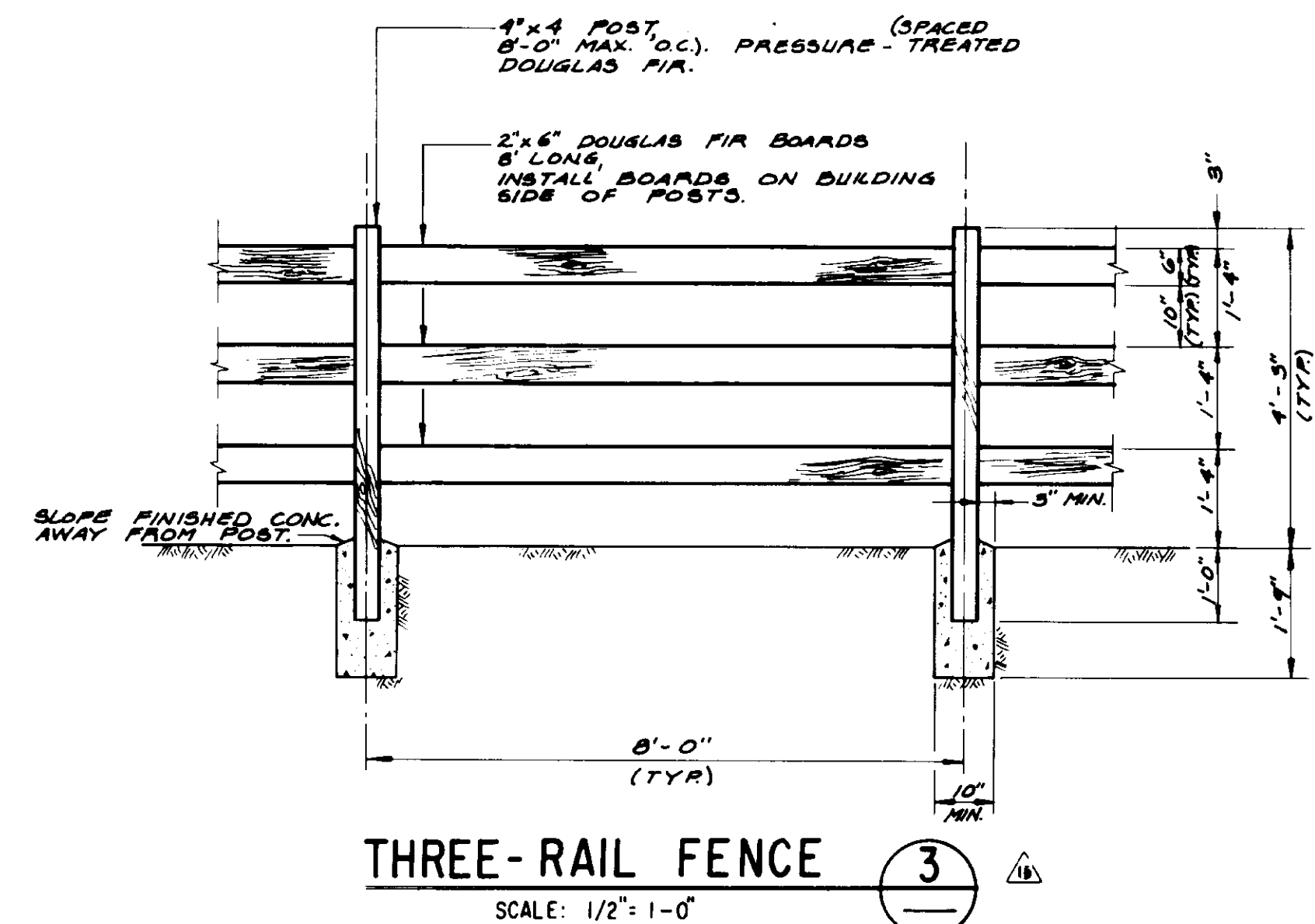
METER VAULT ①

PLAN
SCALE: 3/4" = 1'-0"



SURGE TANK ②

METER VAULT & SURGE TANK
PLAN
SCALE: 1" = 4'-0"



RECORD DRAWING
THIS DRAWING IS TO BE KEPT IN THE OFFICE OF THE DISTRICT ENGINEER TO THOSE FACILITIES TO WHICH IT APPLIES. IT IS TO BE IDENTIFIED AS SUCH AND NOT REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE DISTRICT ENGINEER.
CONV. BY: [Signature] DATE: 12/8/87
PREPARED BY: [Signature] DATE: 12/8/87
PROJ. ENGR.: [Signature] AGENCY: BEC DATE: 12/8/87

NOTE:
MATERIAL NUMBERING SYSTEM IDENTIFIED ON SHEET 3.

05630

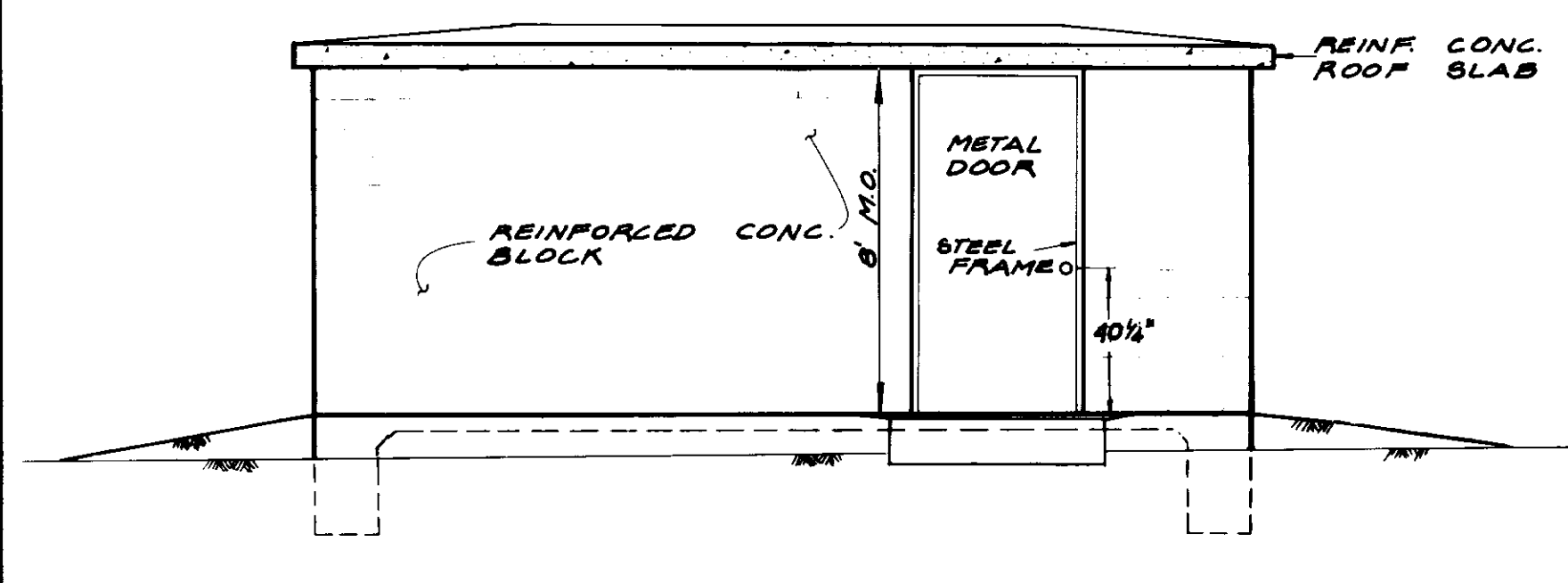
LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION AND TANK
METER VAULT AND SURGE TANK

REV.	DATE	DESCRIPTION	BY	CHKD.
4-21-86		CHANGE ORDER NO. 16: FENCE MODIFICATIONS.	FEL	RV
1-20-86		CHANGE ORDER NO. 1: BLDG MODIFICATIONS.	FEL	RV
1-20-86		ISSUED FOR CONSTRUCTION	FEL	RV

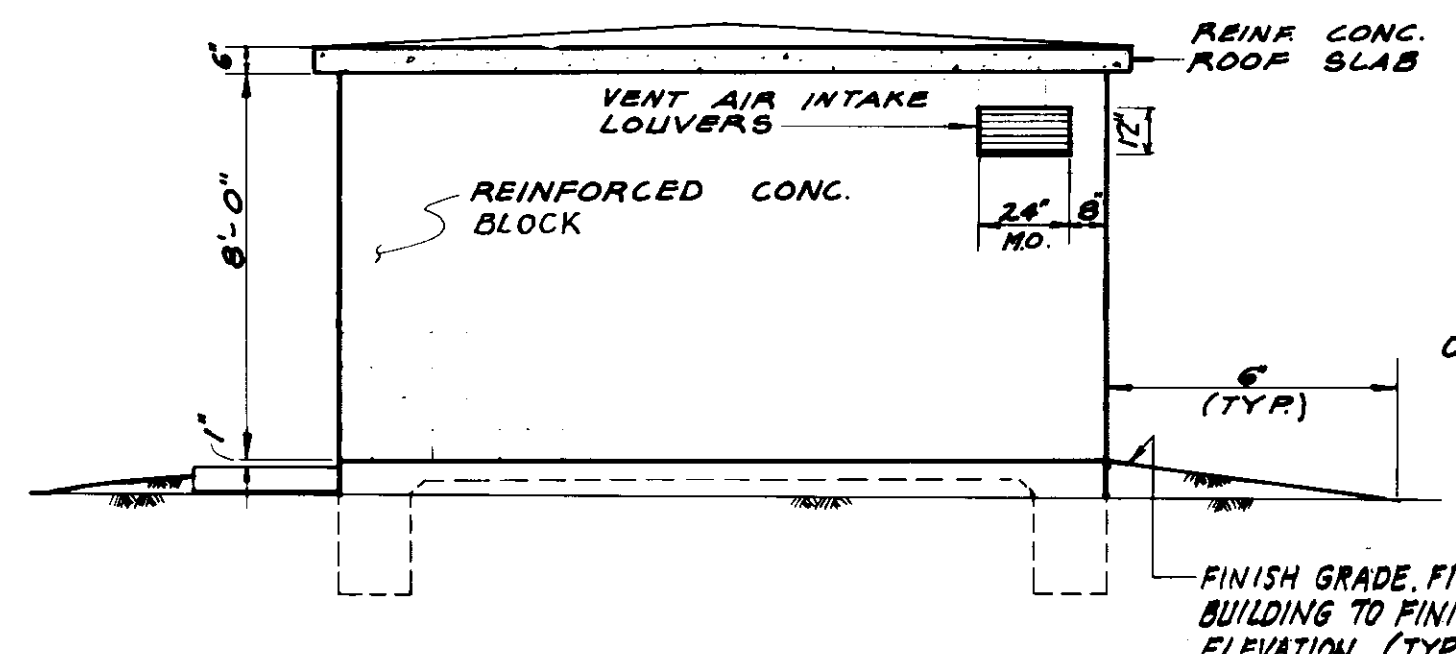
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DATE: 8/14/85
PROJECT: JED SMITH PUMP STATION AND TANK
SHEET NO. 5 OF 11
DRAWING NO. 05-195

NOTES

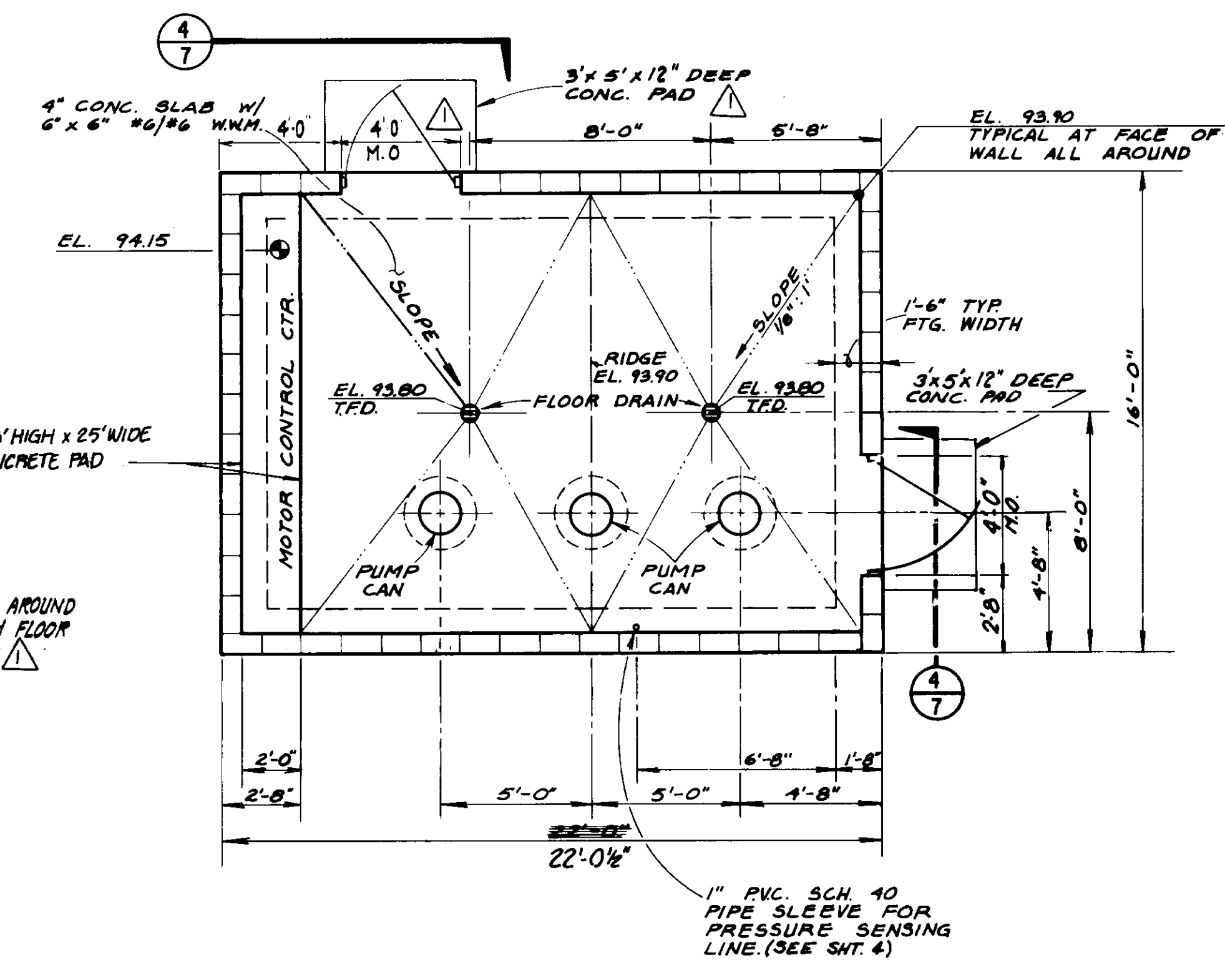
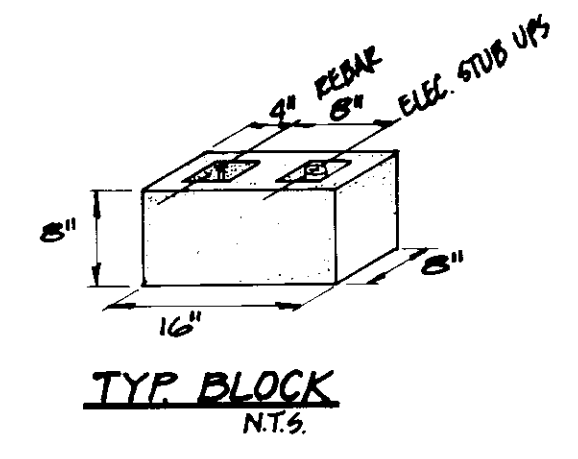
- CONCRETE MASONRY UNITS SHALL BE SPLIT FACE, 8" X 8" X 16" PER THE SPECIFICATIONS. INTERIOR FACE OF UNITS SHALL BE SMOOTH, EXTERIOR FACE SHALL BE SPLIT FACE. COLOR OF BLOCK SHALL BE TAN.
- COLORS FOR THE FINAL COAT OF PAINT SHALL BE AS FOLLOWS:
 - METAL DOORS AND LOUVERS: LIGHT BROWN
 - 6-FOOT HIGH WOOD PLANK FENCE: WHITE (SEE SHEET 4)
 - CONCRETE ROOF SLAB (ALL EXTERIOR SURFACES) LIGHT BROWN



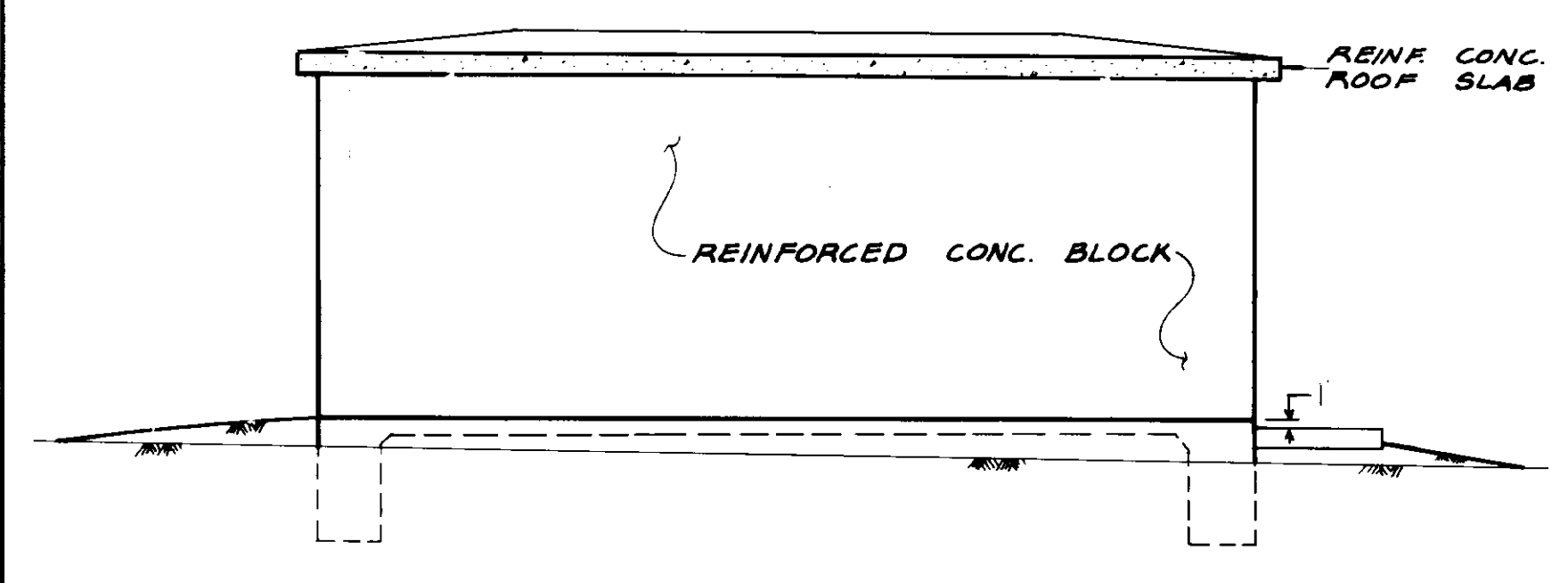
NORTH ELEVATION
SCALE: 1/4" = 1'-0"



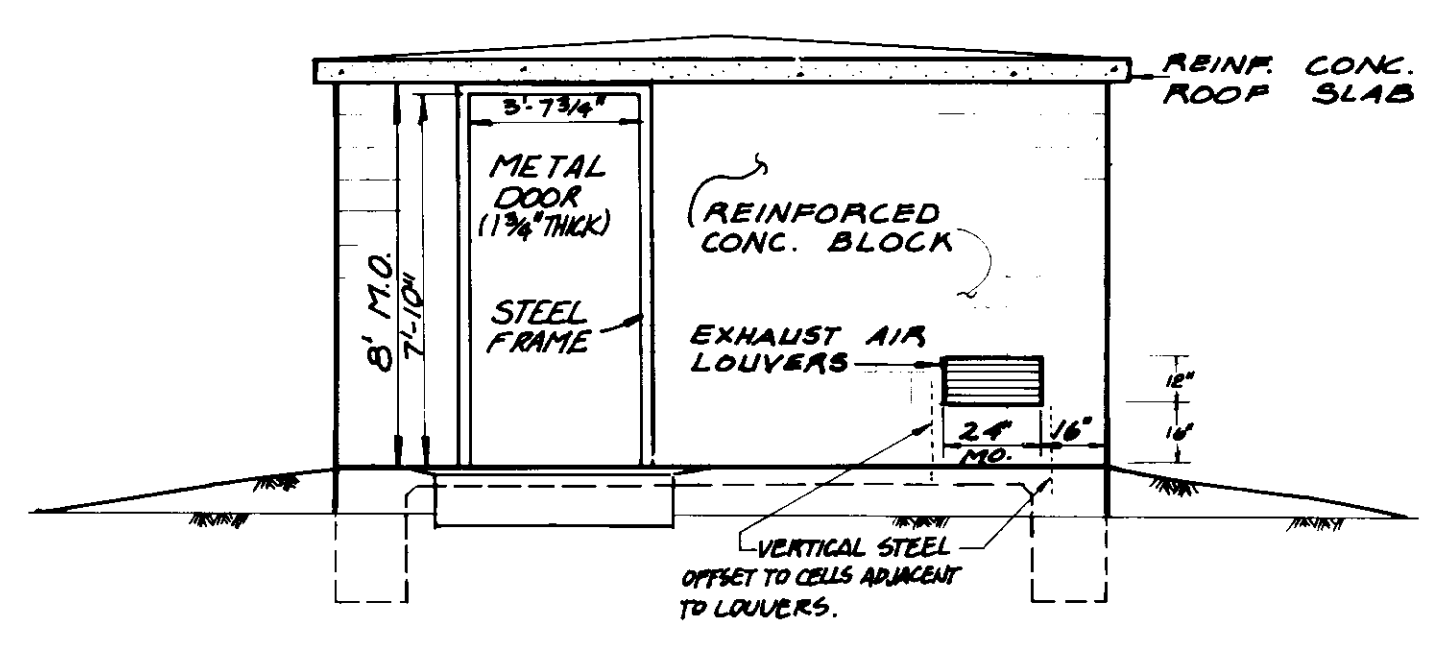
WEST ELEVATION
SCALE: 1/4" = 1'-0"



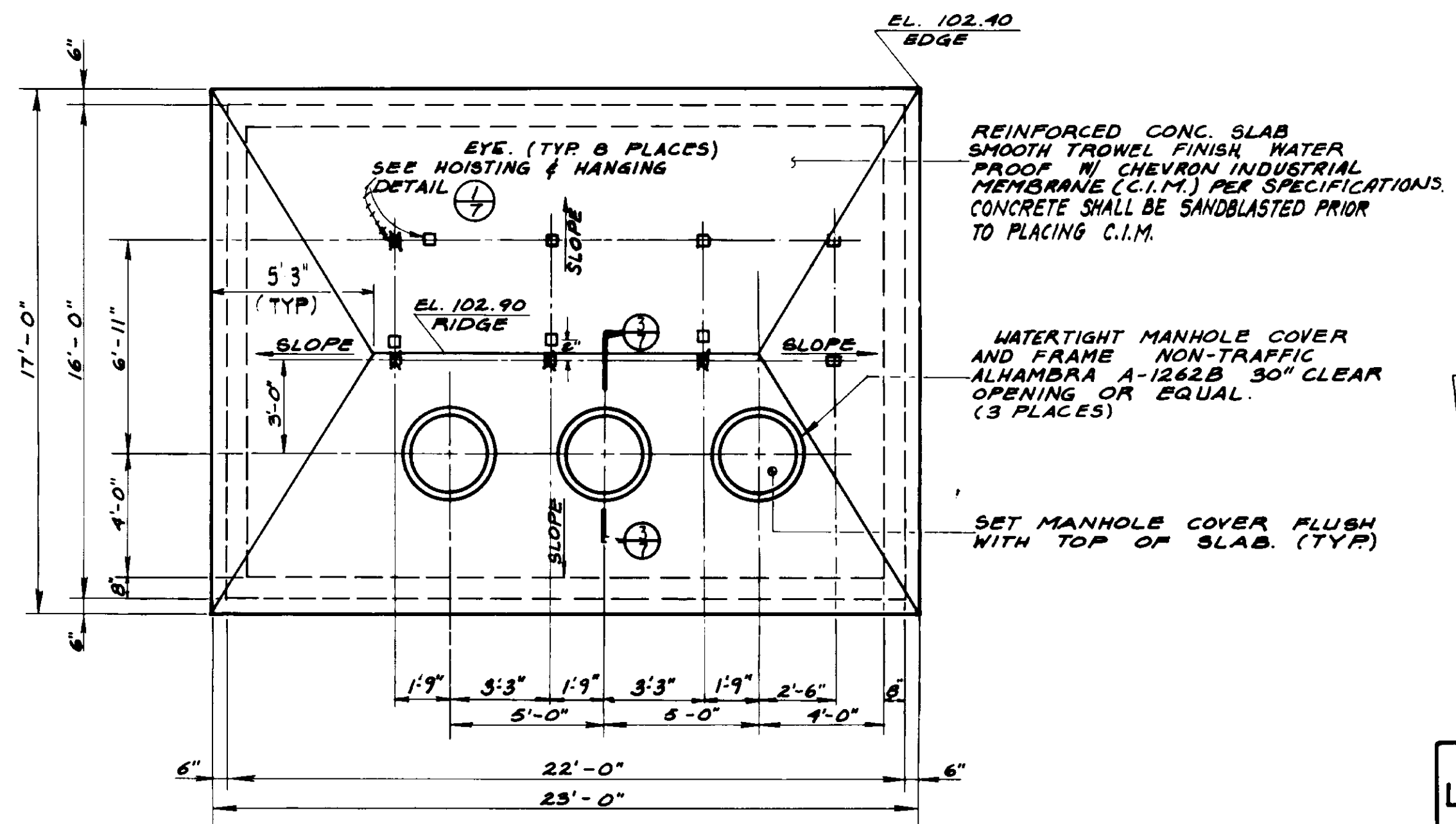
PUMP BUILDING FLOOR & FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



EAST ELEVATION
SCALE: 1/4" = 1'-0"



ROOF PLAN
SCALE: 1/4" = 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 PREPARED ON THE BASIS OF THE INFORMATION FURNISHED BY THE CONTRACTOR AND THE CONSTRUCTION INSPECTOR.
CONSULT IN: *MWT* AGENCY: *BE* DATE: *12/18/87*
DRAFTED BY: *JST* AGENCY: *BE* DATE: *12/18/87*
PROJ. ENGR.: *BE* AGENCY: *BE* DATE: *12/18/87*

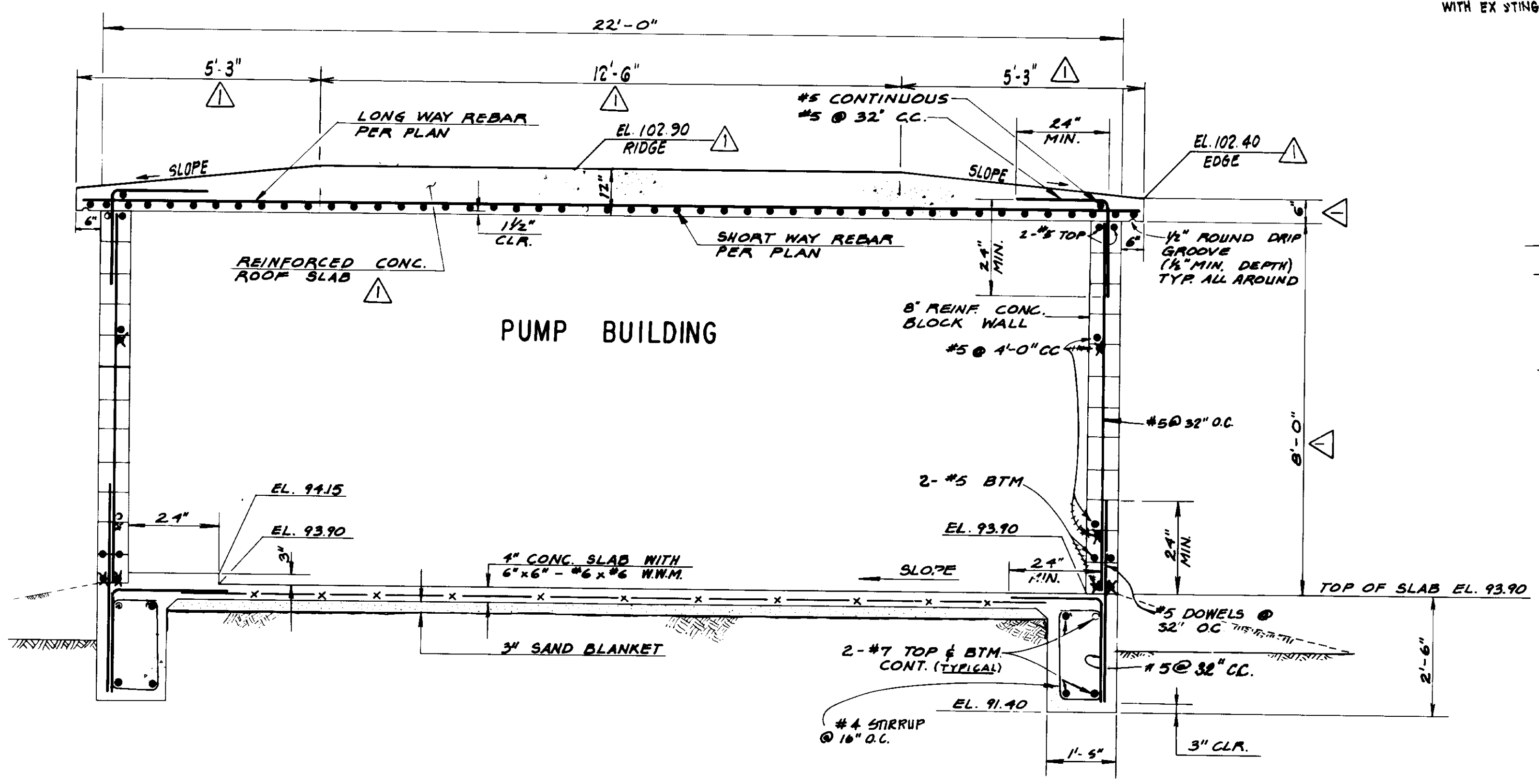
05631

LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION AND TANK
ELEVATIONS, ROOF
AND
FOUNDATION PLANS

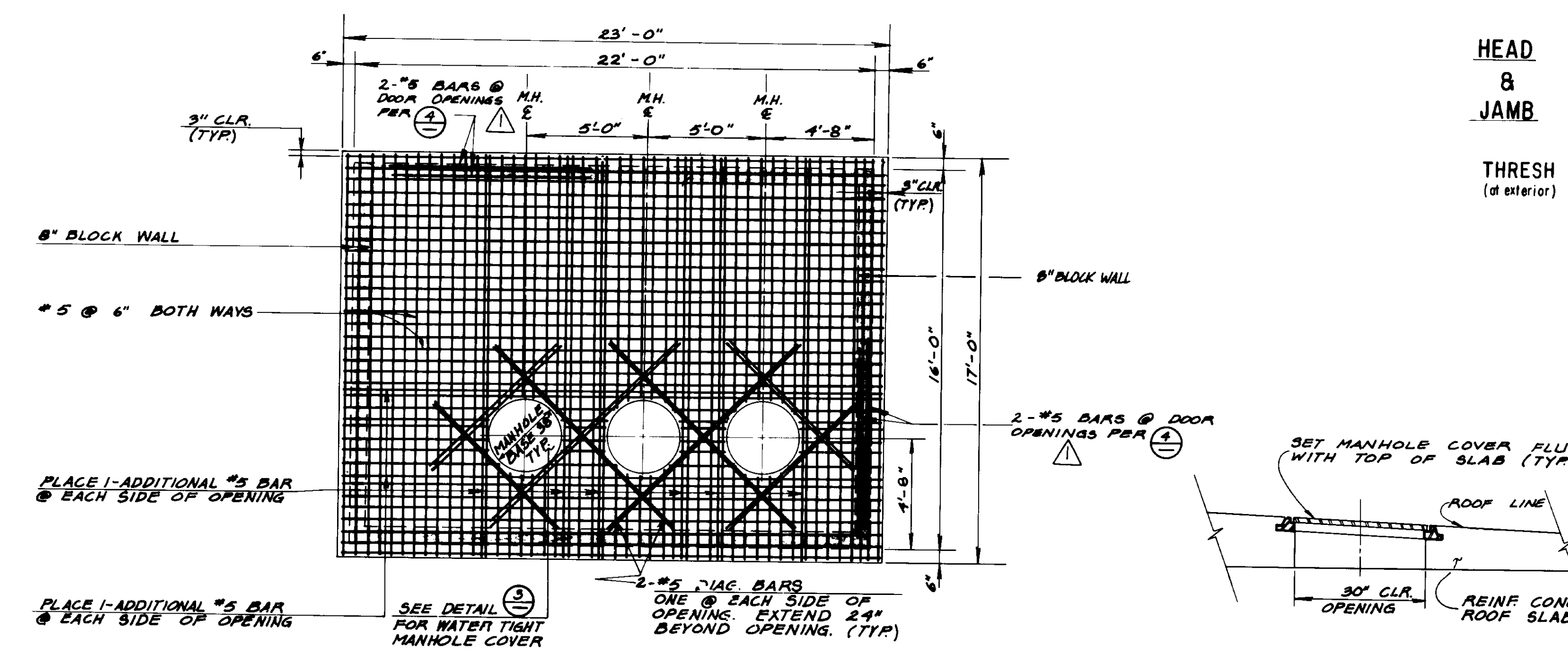
DESIGN	RV	DATE	12/18/87
DRAWN	BE	DATE	12/18/87
CHECKED	BE	DATE	12/18/87
ISSUED FOR CONSTRUCTION	BE	DATE	12/18/87

Scale Engineering Corporation
consulting engineers / architects
VENTURA, CA

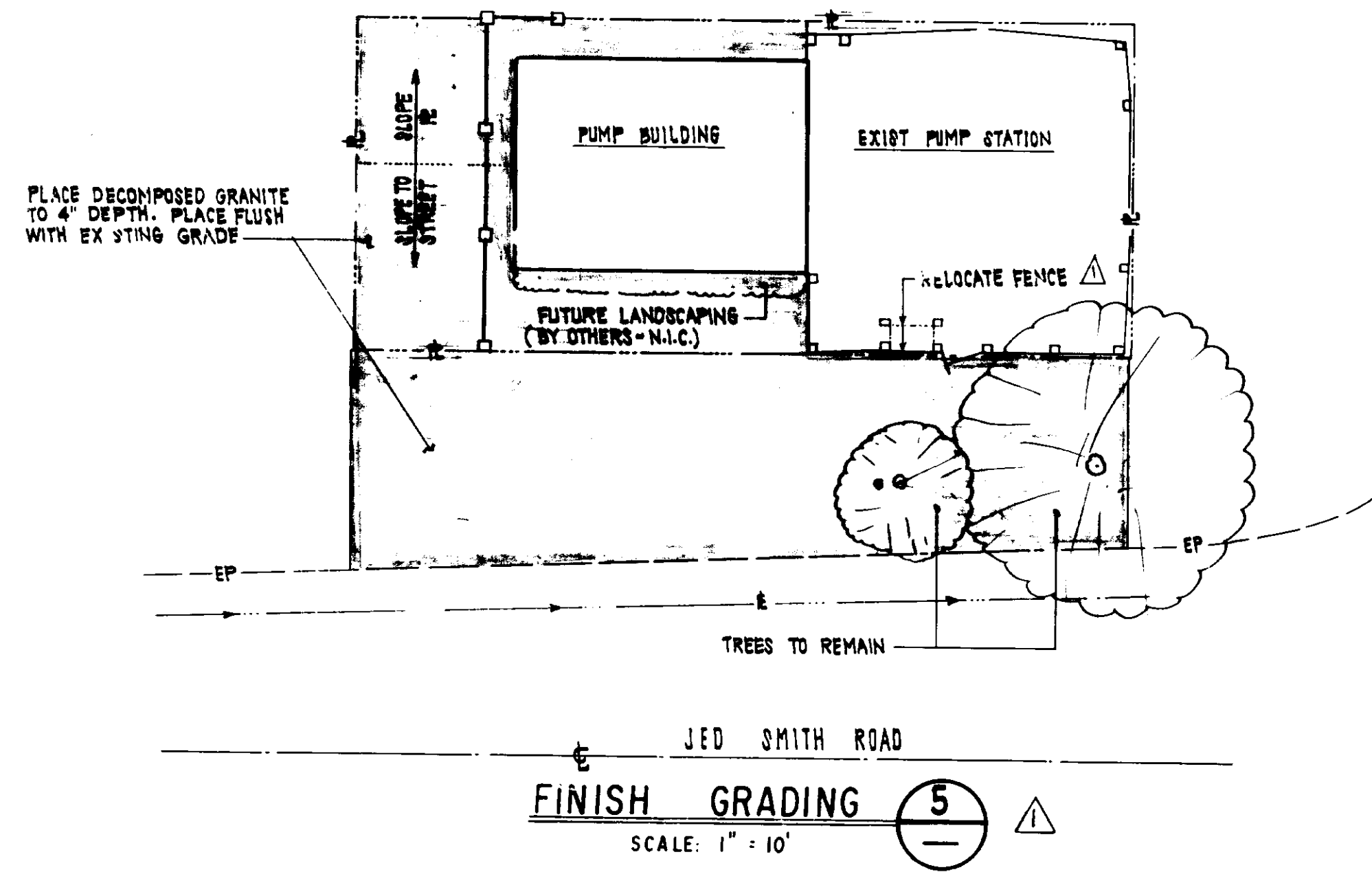
PROJECT: JED SMITH PUMP STATION AND TANK
SHEET NO. 6 OF 17 SHEETS
DATE: 12/18/87
DRAWN BY: JST
CHECKED BY: BE
ISSUED BY: BE



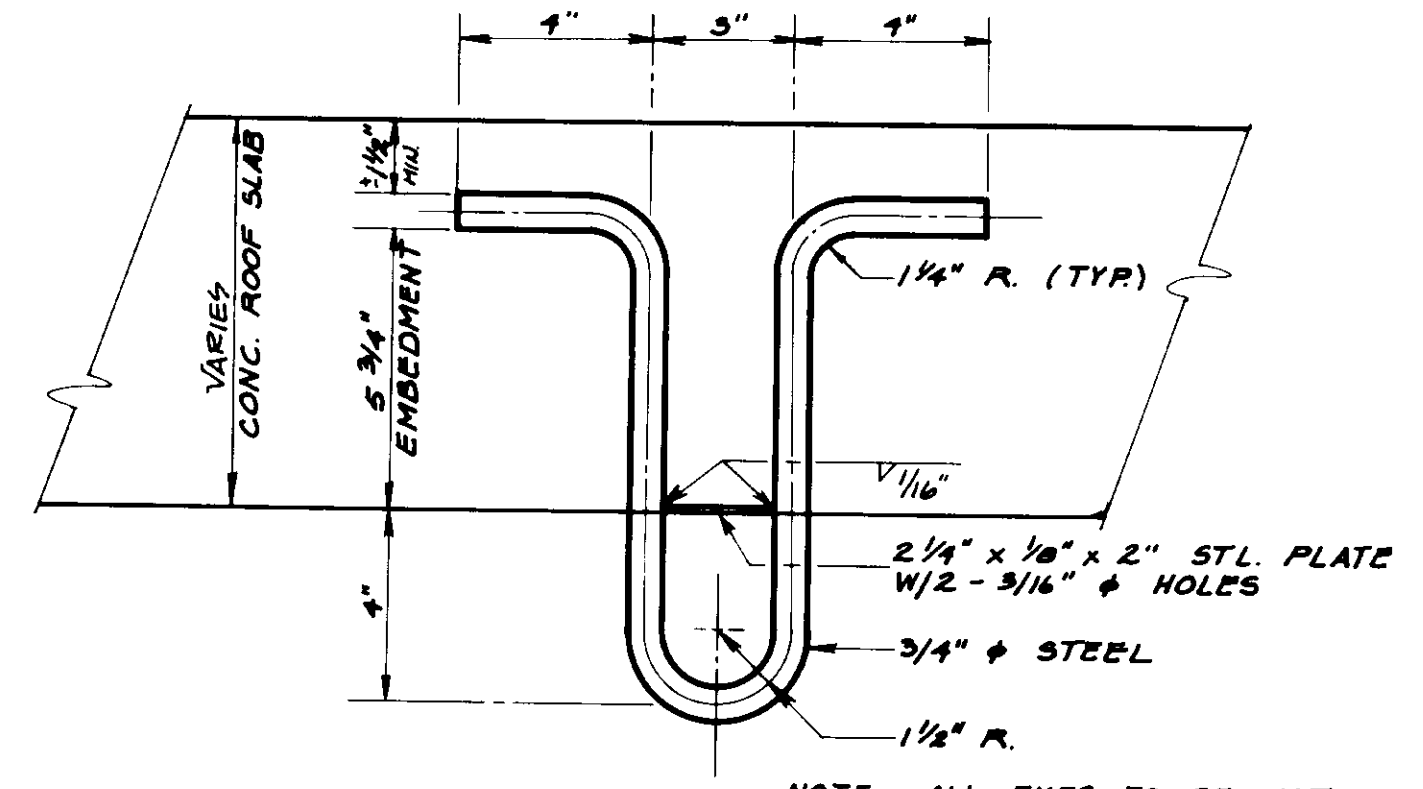
SECTION - LONG SIDE
SCALE: 1/2" = 1'-0"



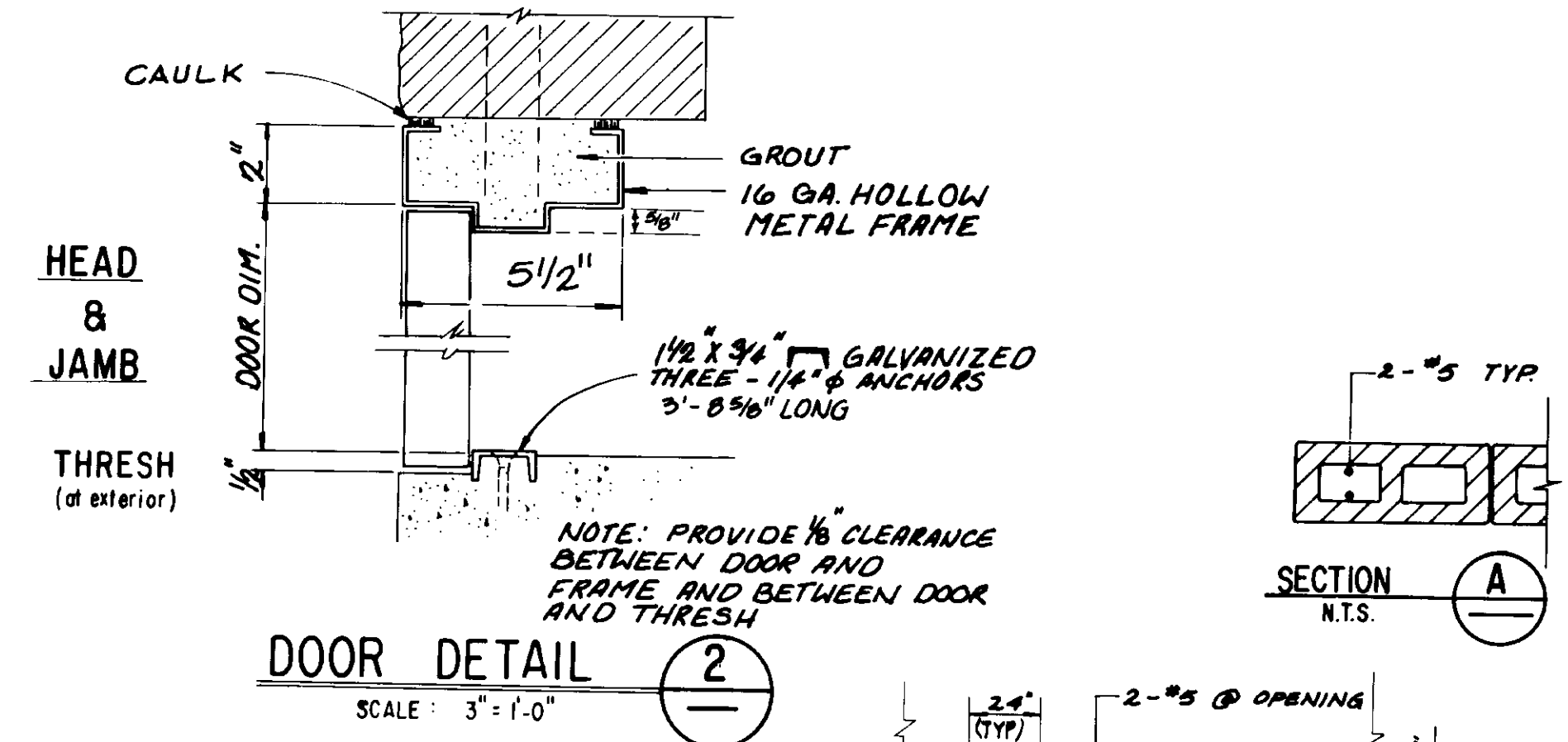
ROOF REINFORCING PLAN
SCALE: 1/4" = 1'-0"



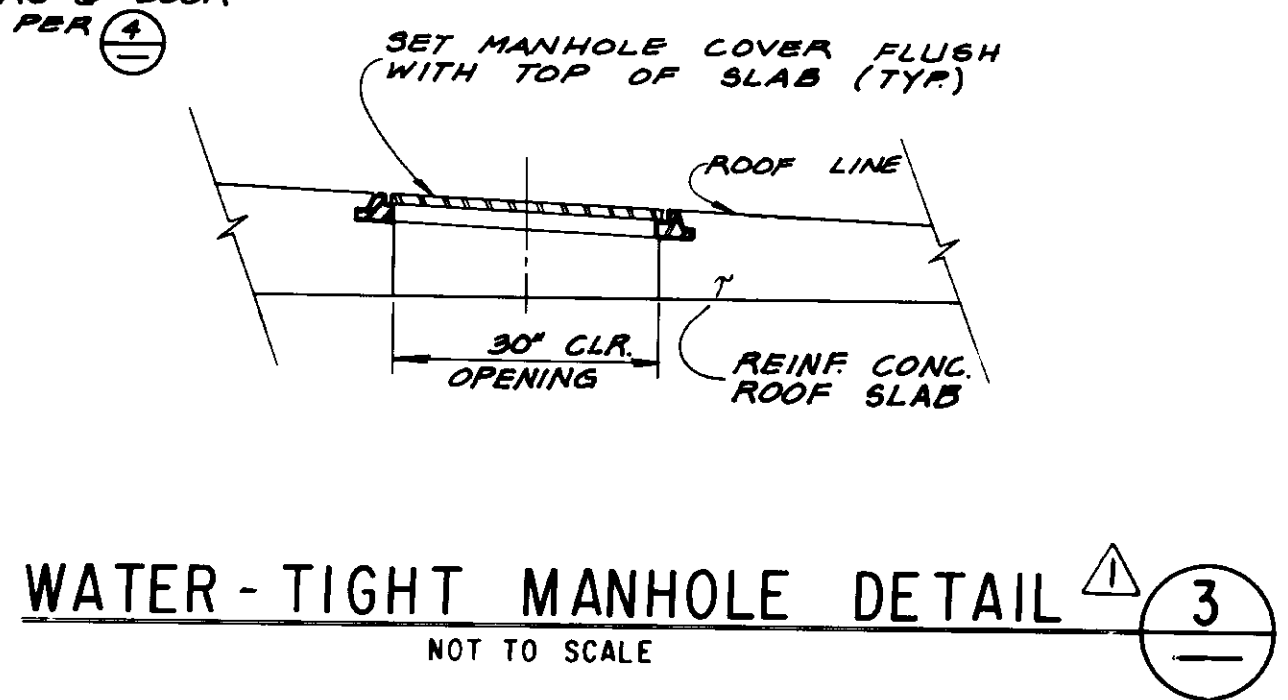
FINISH GRADING (5)
SCALE: 1" = 10'



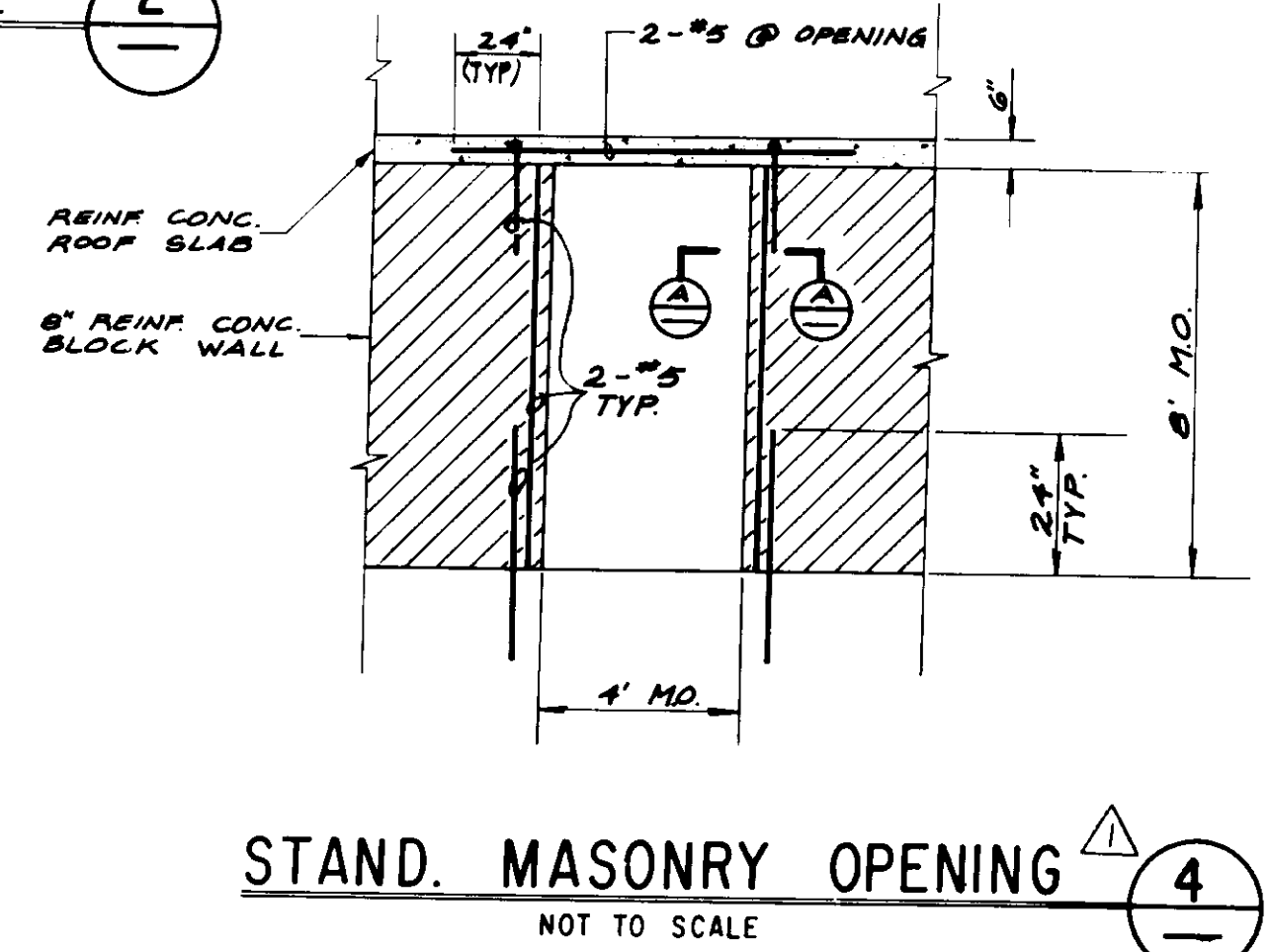
ELEVATION HOISTING & HANGER DETAIL (1)
NOT TO SCALE
(ALIGN VERTICALLY OVER CLA-VALVES)



DOOR DETAIL (2)
SCALE: 3/8" = 1'-0"



WATER-TIGHT MANHOLE DETAIL (3)
NOT TO SCALE



STAND. MASONRY OPENING (4)
NOT TO SCALE

RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES IDENTIFIED UNDER THE CONTRACT IDENTIFIED IN THE TITLE BLOCK. THIS RECORD DRAWING HAS BEEN PREPARED ON THE BASIS OF THE INFORMATION FURNISHED BY THE CONTRACTOR AND THE CONSULTING ENGINEER'S INSPECTION.
DATE: 12/18/97
DATE: 12/18/97
DATE: 12/18/97

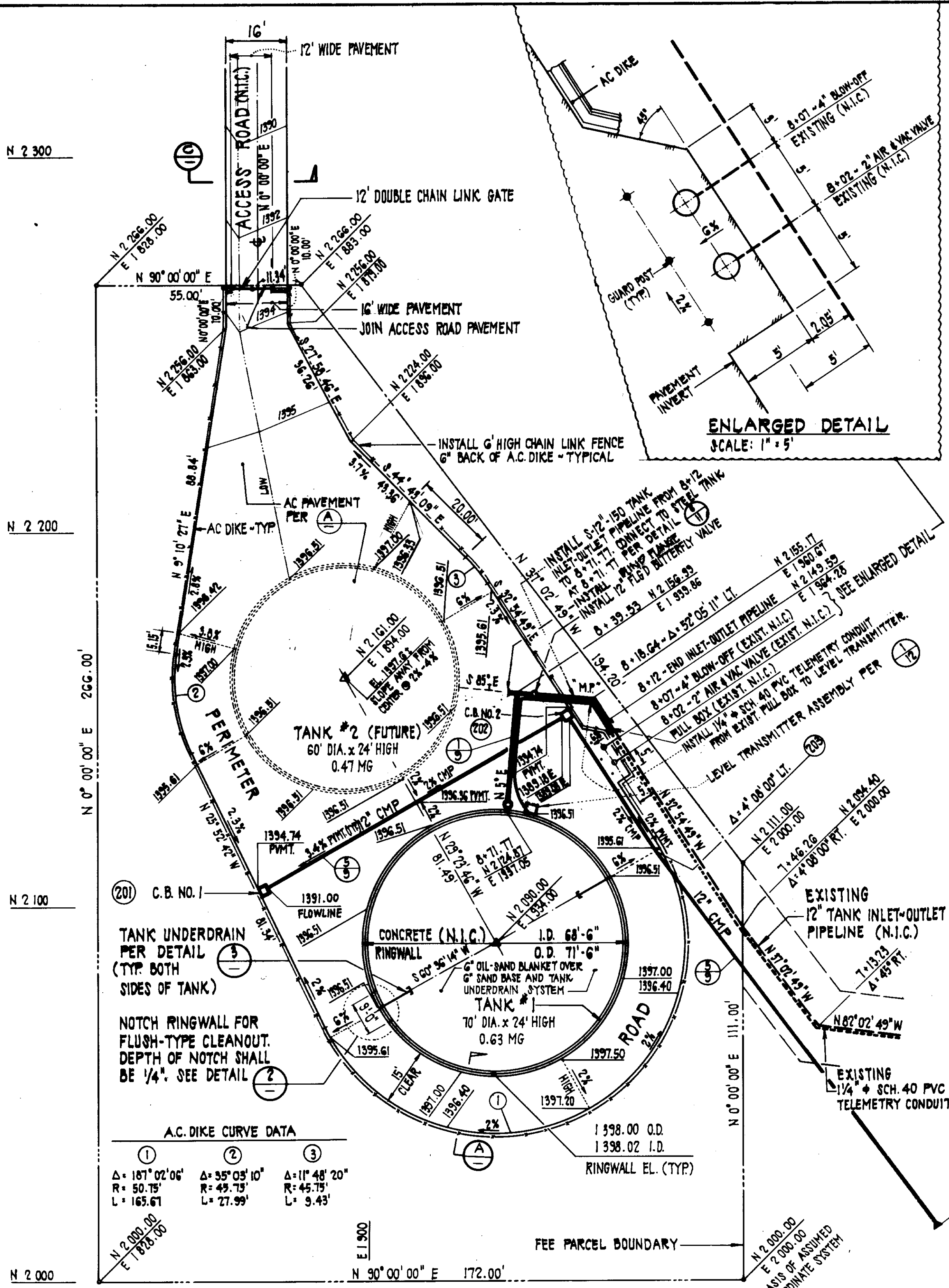
05632

LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION AND TANK
PUMP BUILDING STRUCTURAL
AND
ROOF REINFORCING PLAN

DESIGN	RV	DATE	12/18/97
CHECKED	RV	DATE	12/18/97
APPROVED	RV	DATE	12/18/97
ISSUED FOR CONSTRUCTION	RV	DATE	12/18/97
CHANGE ORDER NO.	06	MODIFICATIONS	
ISSUED FOR CONSTRUCTION			

Boule Engineering Corporation
CONSULTING ENGINEERS, ARCHITECTS
VENTURA, CA
RCE 27357

SHEET NO. 7
OF 17 SHEETS
DWG. NO. S-193



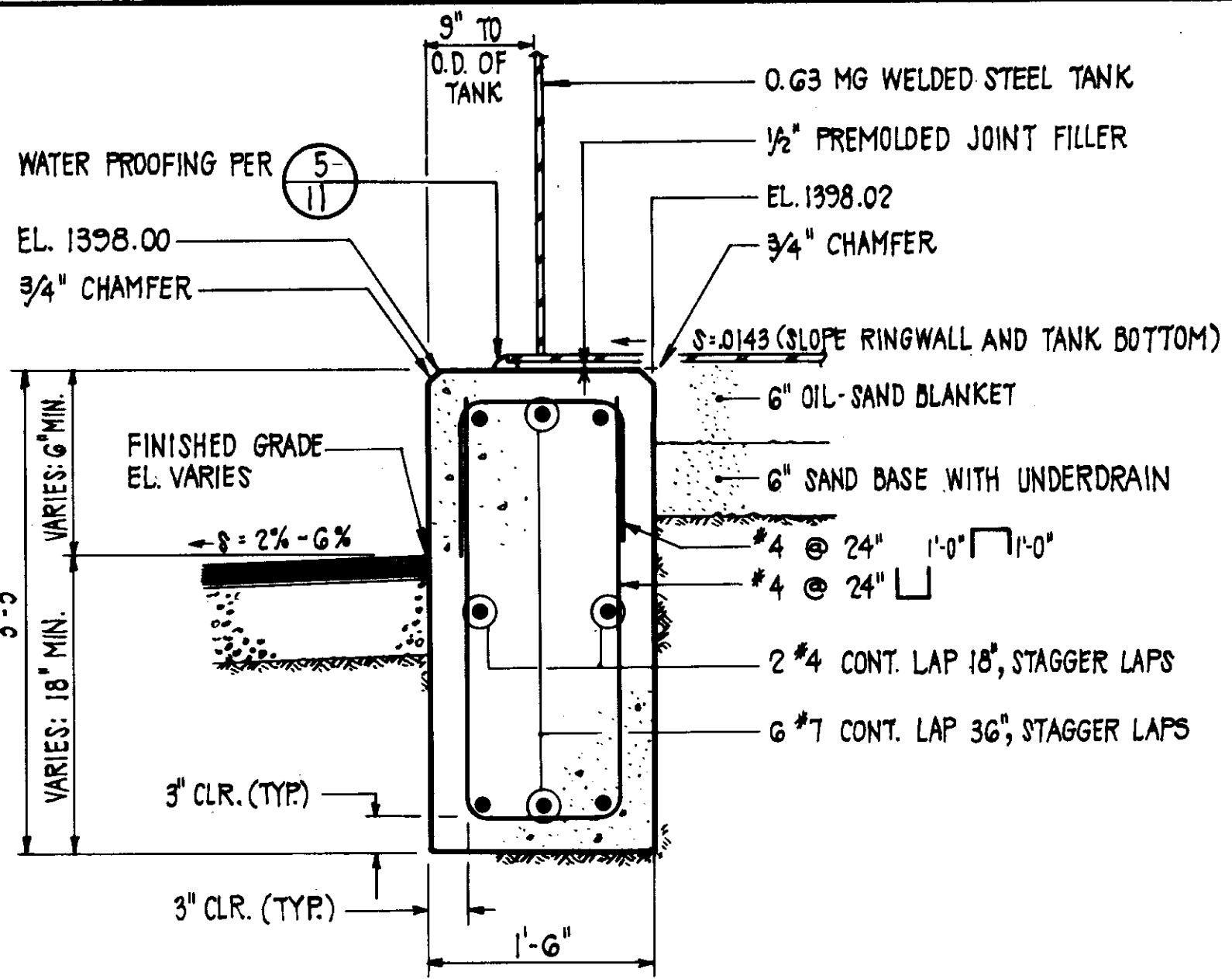
STORM DRAIN GEOMETRY

POINT	NORTHING	EASTING	BEARING	DISTANCE	
201	C.B. NO.1	2 104.63	1 872.03	N 60° 36' 14" E	93.65'
202	C.B. NO.2	2 150.58	1 953.60	S 32° 54' 49" E	43.24'
203	4' 08" ANGLE PT.	2 114.28	1 977.10	S 37° 02' 49" E	125' ±
204	F.E.S.	2 015 ±	2 052 ±		

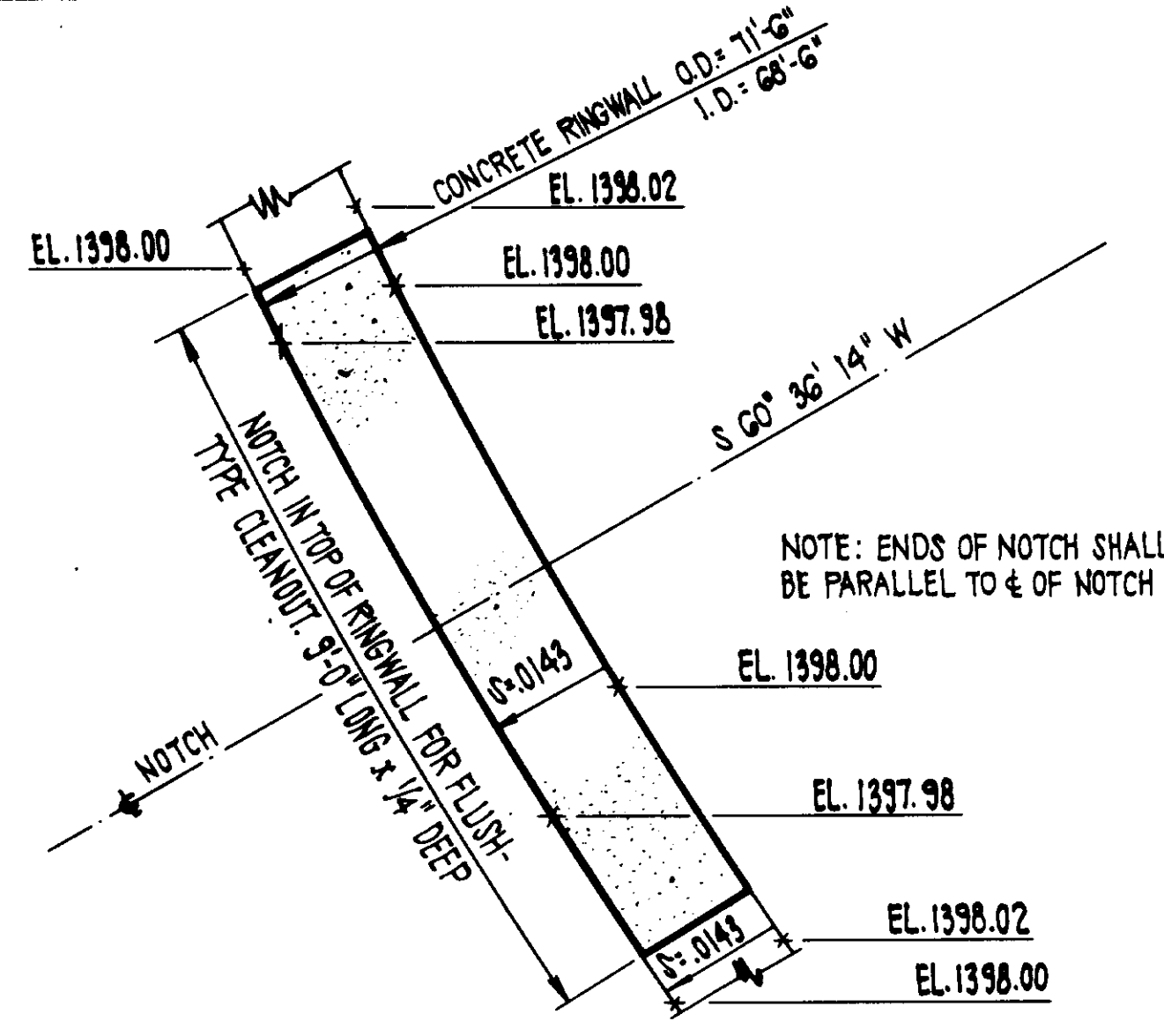
NOTE: ELEVATIONS SHOWN ARE FINISH GRADE TOP OF PAVEMENT AT 1/2 POINTS AROUND TANKS. ELEVATIONS AROUND TANK NO. 2 ARE AT FUTURE RINGWALL O.D. (61'-6"). FOR EXISTING GRADES SEE SHEET 9.

HORIZONTAL & VERTICAL CONTROL AT TANK SITE TO BE PROVIDED BY CARL CHAPMAN & ASSOC. UNDER PREVIOUS GRADING CONTRACT.

TANK SITE LAYOUT
SCALE: 1" = 20'



CONCRETE RINGWALL SECTION 1
SCALE: 1" = 1'-0" (EXISTING - N.I.C.)

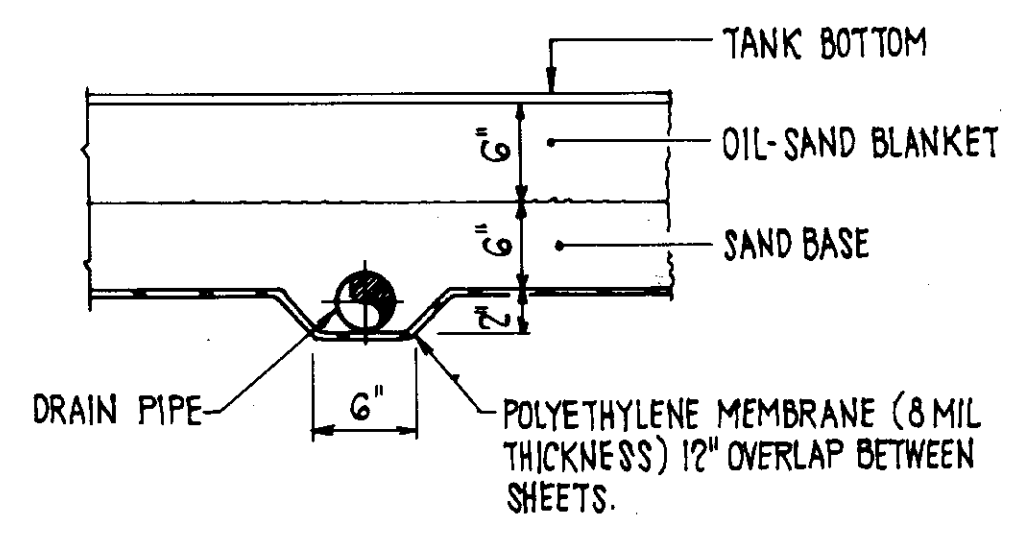


RINGWALL NOTCH DETAIL 2
SCALE: 1/2" = 1'-0"

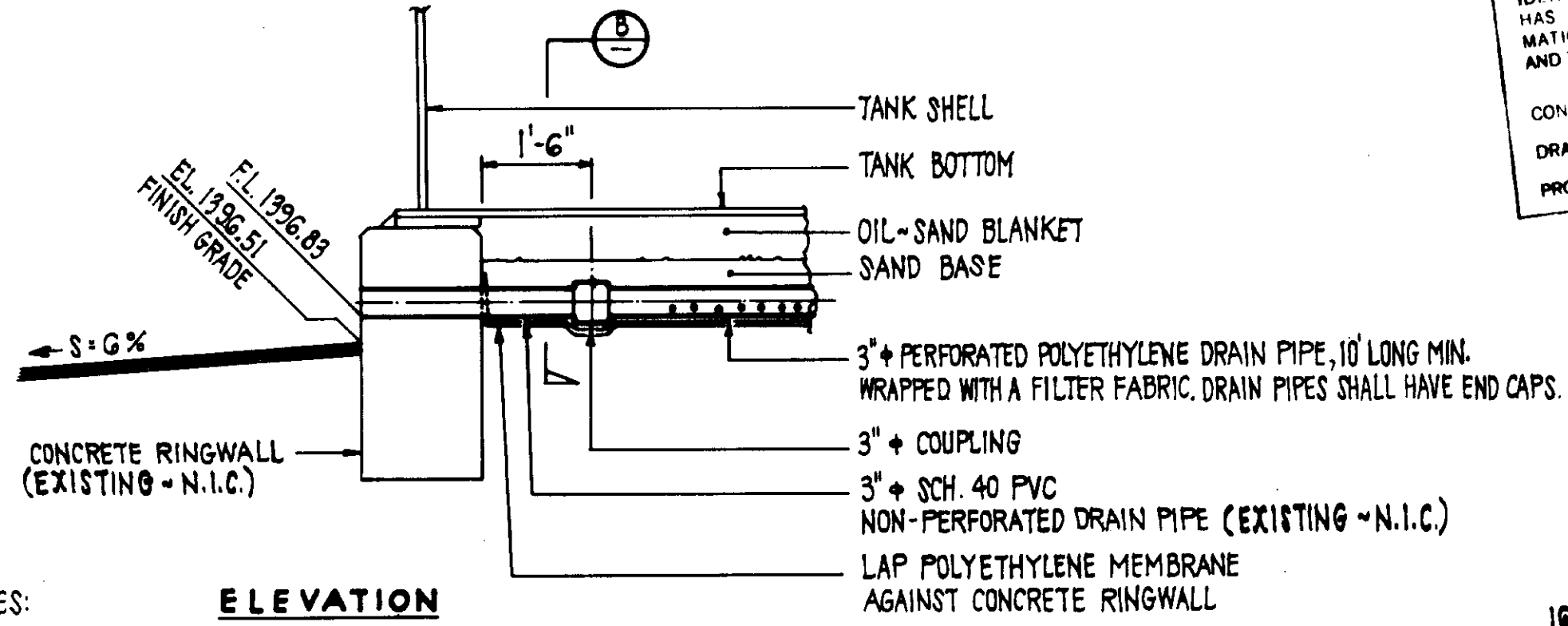
NOTES

- TO PREVENT WATER FROM ENTERING EXPOSED BEDDING PLANES DURING CONSTRUCTION AND PRIOR TO FINAL PAVING, THE PREVIOUS GRADING CONTRACT INCLUDED A THIN, TEMPORARY ASPHALT SEAL OVER THE PAD AREA. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE INTEGRITY OF THE ASPHALT SEAL UNTIL ITS REMOVAL. THE ASPHALT SEAL WITHIN THE RINGWALL SHALL BE REMOVED JUST PRIOR TO PLACING THE SAND BASE AND UNDERDRAIN. THE ASPHALT SEAL OVER THE PERIMETER ROAD AND LOCATION OF FUTURE TANK NO. 2 SHALL BE REMOVED JUST PRIOR TO PREPARING THE SUBGRADE FOR THE PAVEMENT SECTION. TRENCHES FOR THE INLET-OUTLET PIPELINE AND THE STORM DRAIN MUST BE PATCHED.

N.I.C. ⚠



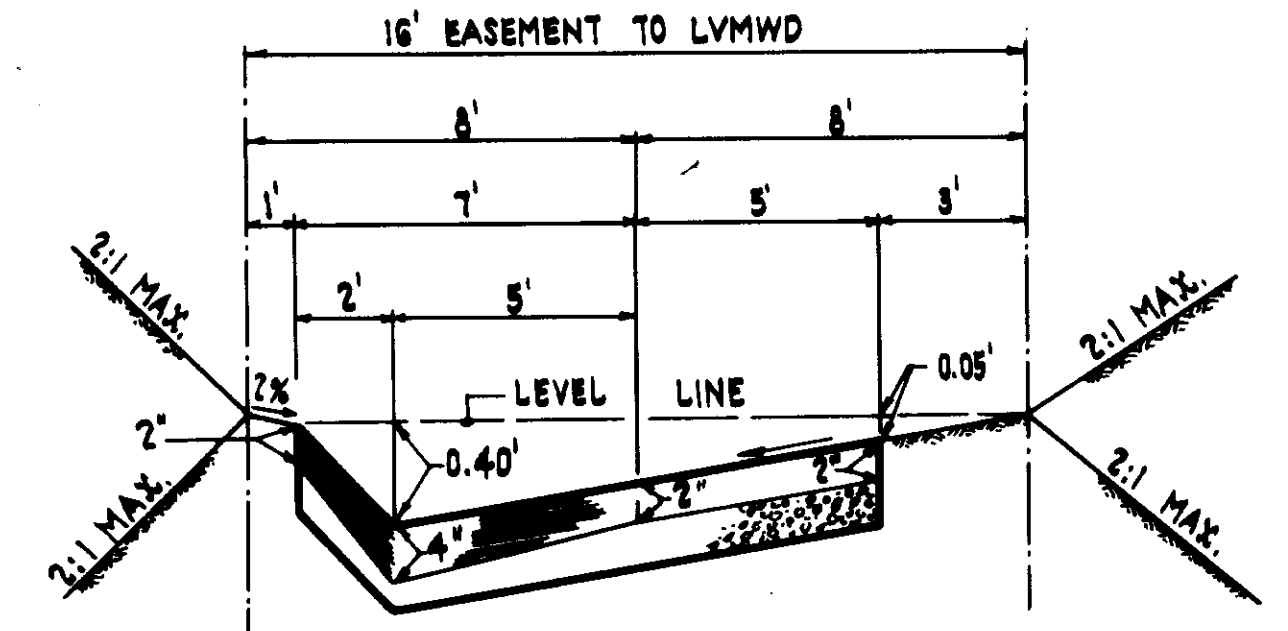
SECTION B



ELEVATION

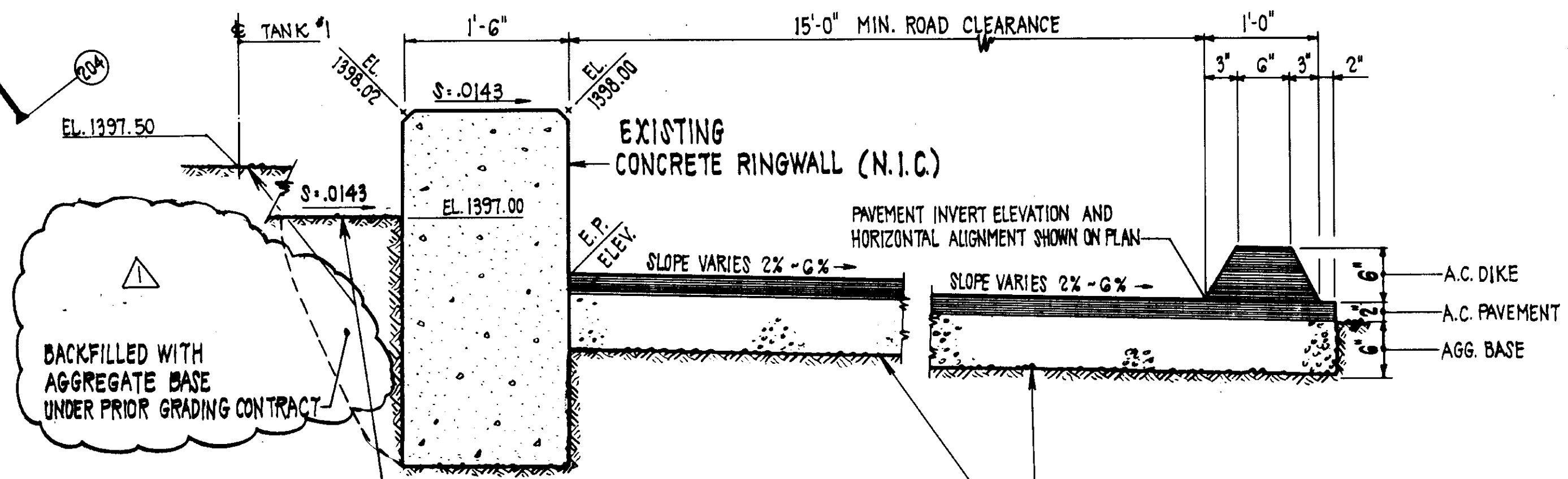
NOTES:
1. SLOPE THE DRAIN PIPE AND THE SURFACES OF THE OIL-SAND BLANKET, SAND BASE AND POLYETHYLENE MEMBRANE, TO MATCH THE SLOPE OF THE TANK BOTTOM. SEE 1.

DRAIN LINE THROUGH CONCRETE RINGWALL DETAIL 3
SCALE: 1/2" = 1'-0"



CONSTRUCT 2" AC PAVEMENT ON CRUSHED AGGREGATE BASE. (THICKNESS OF C.A.B. TO BE DETERMINED BY SOILS ENGINEER FOR A T.I. OF 4.9). TYPICAL ACCESS ROAD SECTION PER CARL CHAPMAN & ASSOC.

ACCESS ROAD - TYPICAL SECTION C
SCALE: NONE



TYPICAL SECTION - PERIMETER ROAD A
SCALE: 1" = 1'-0"

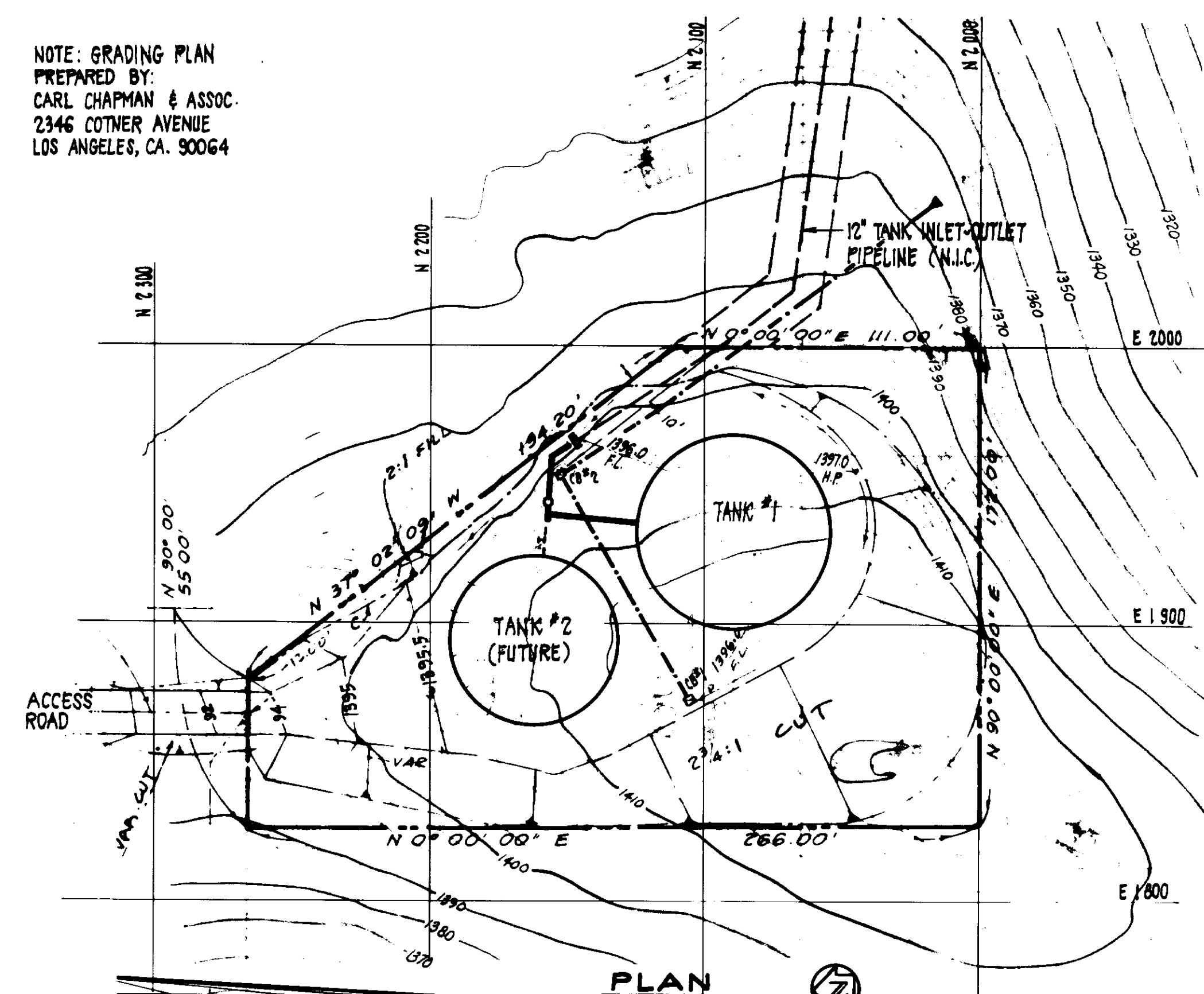
05633

LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION AND TANK
TANK SITE LAYOUT AND RINGWALL

DESIGN	F.E.L.	DATE	8
CHECKED	FEL	DATE	17
ISSUED FOR CONSTRUCTION	DATE	DATE	DATE

SOILS ENGINEERING CORPORATION
CONSULTING ENGINEERS / ARCHITECTS
VENTURA, CA

NOTE: GRADING PLAN
PREPARED BY:
CARL CHAPMAN & ASSOC.
2346 COTNER AVENUE
LOS ANGELES, CA. 90064



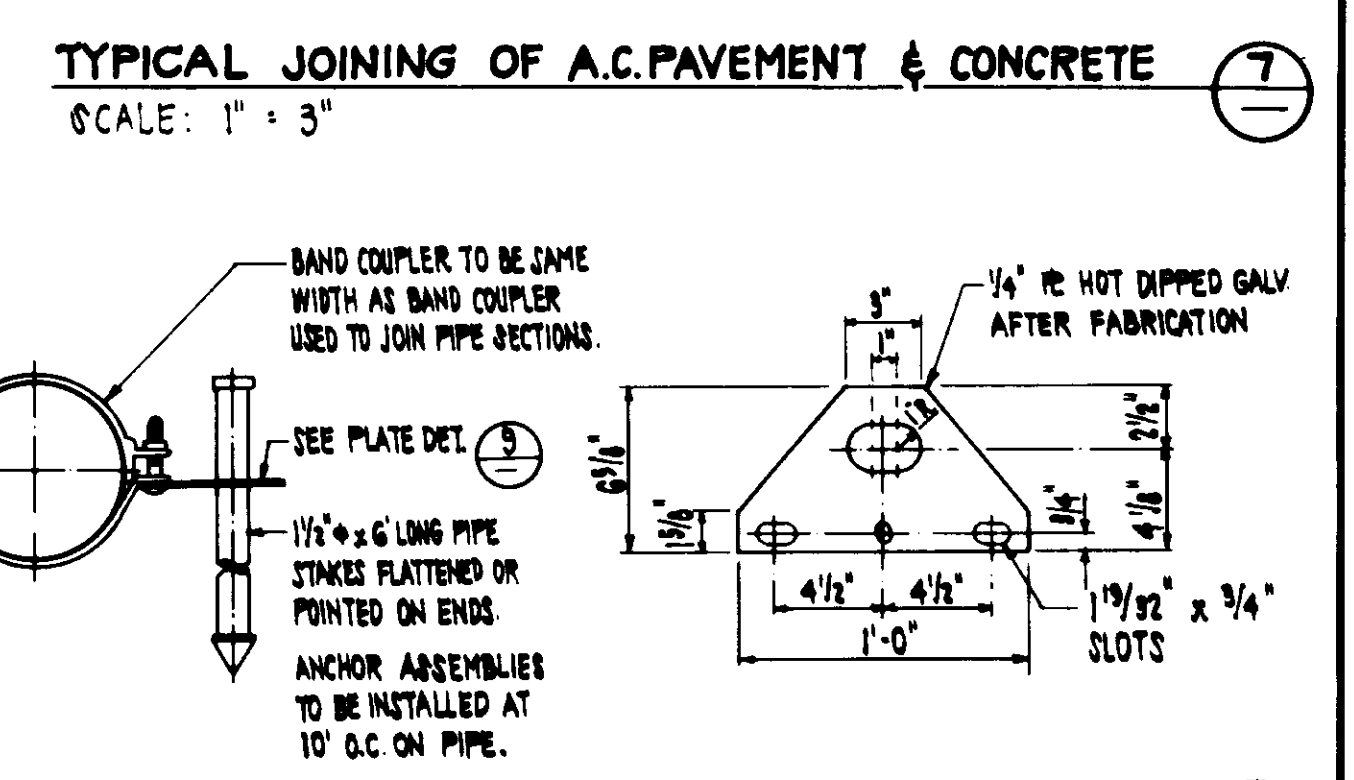
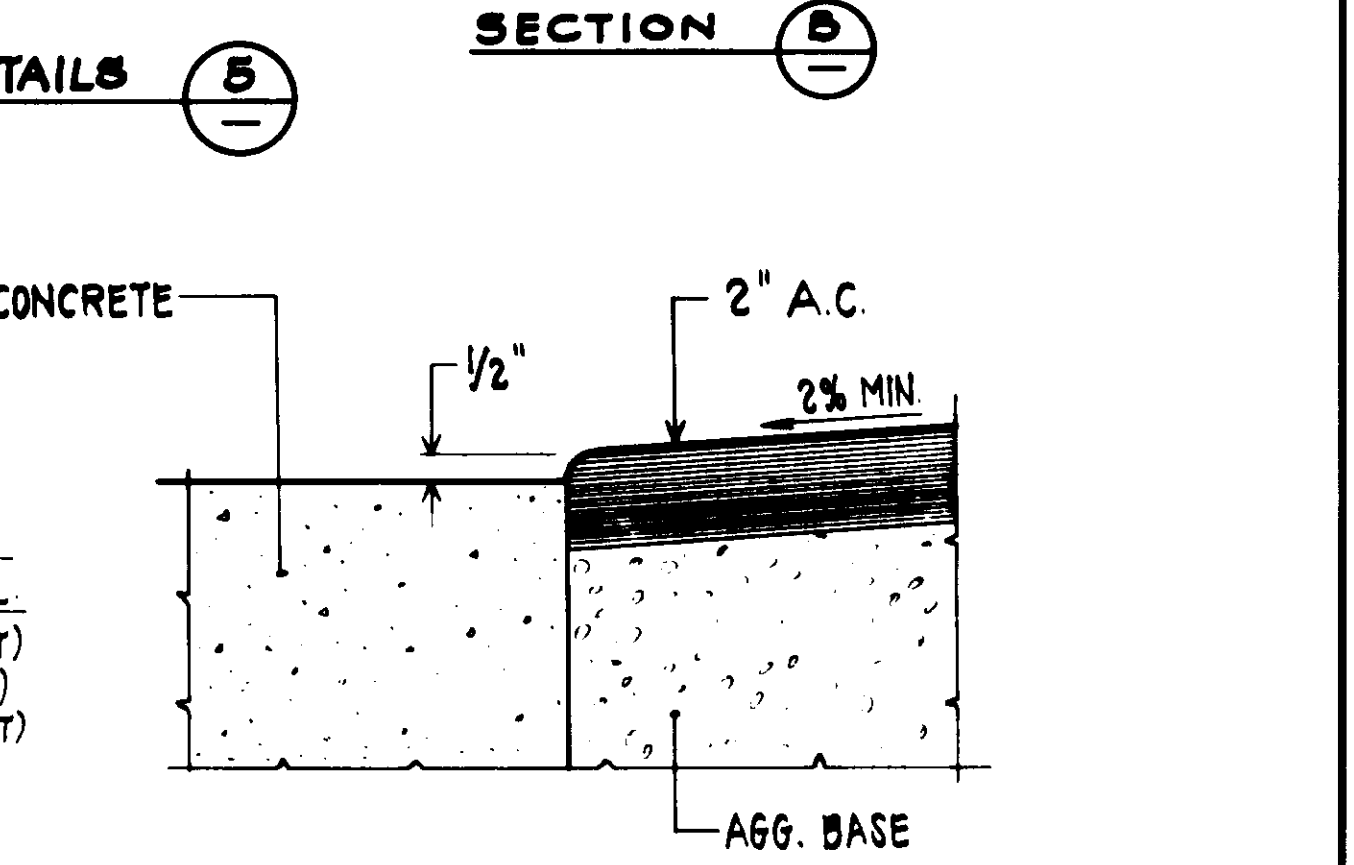
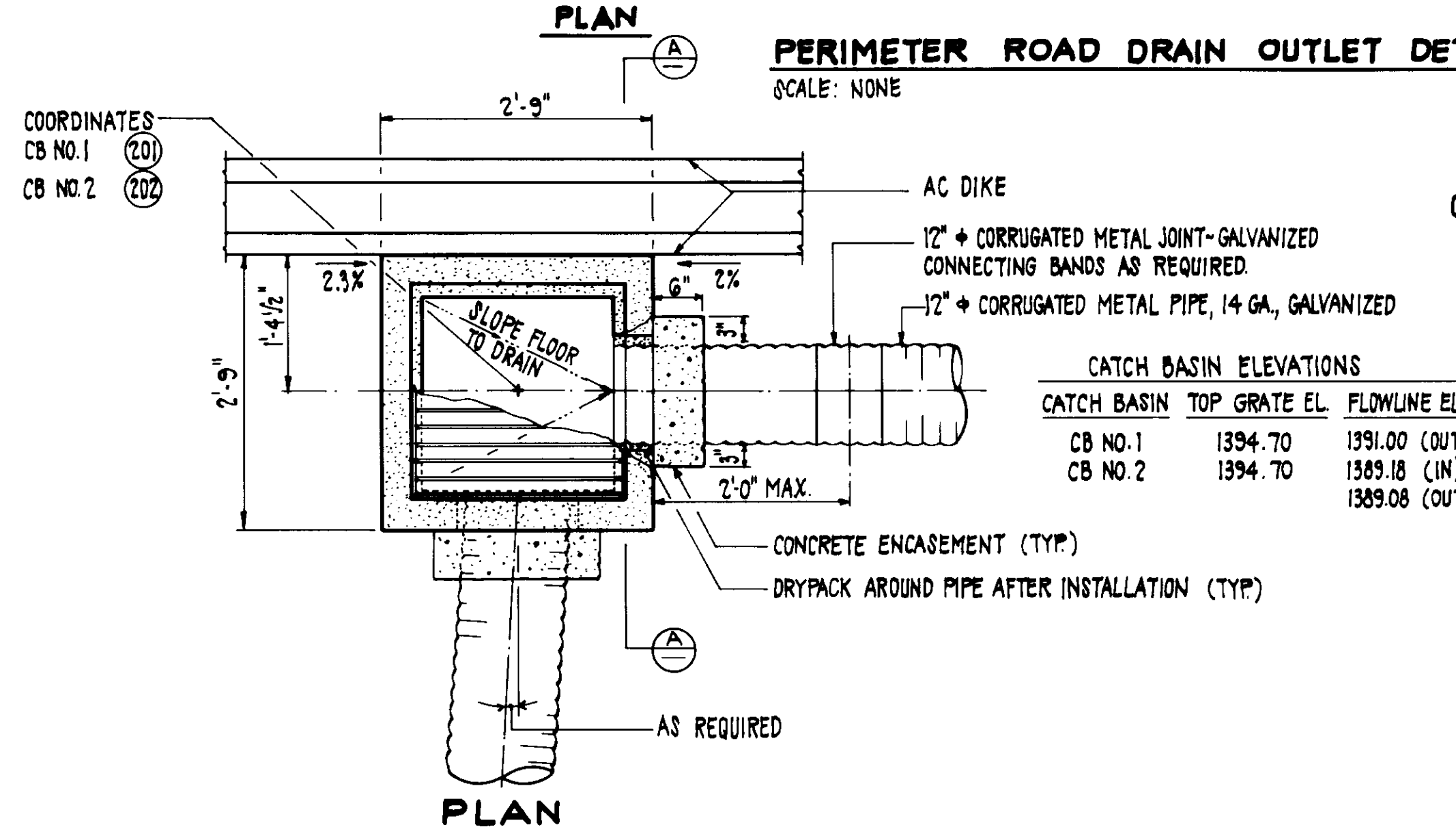
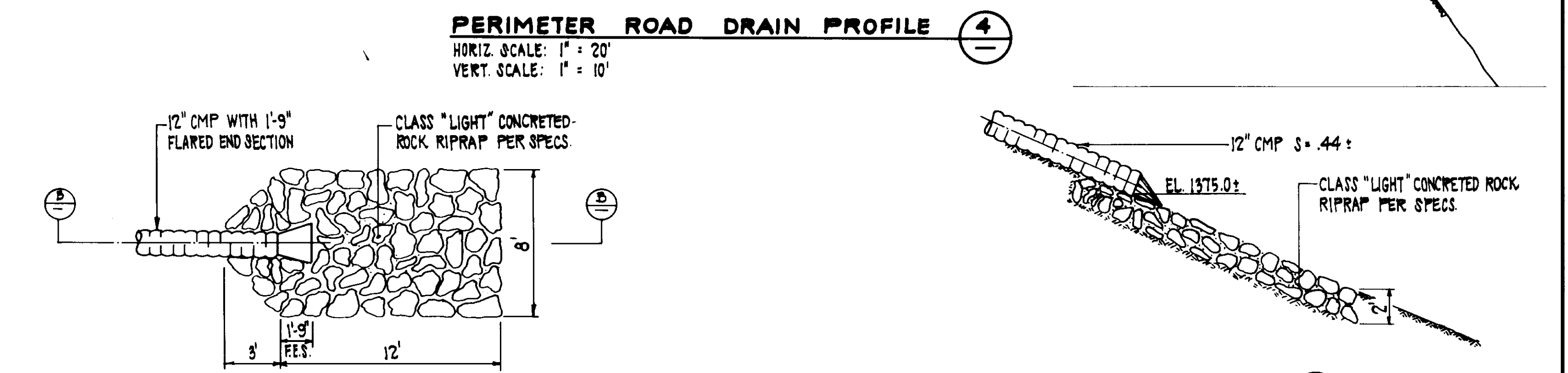
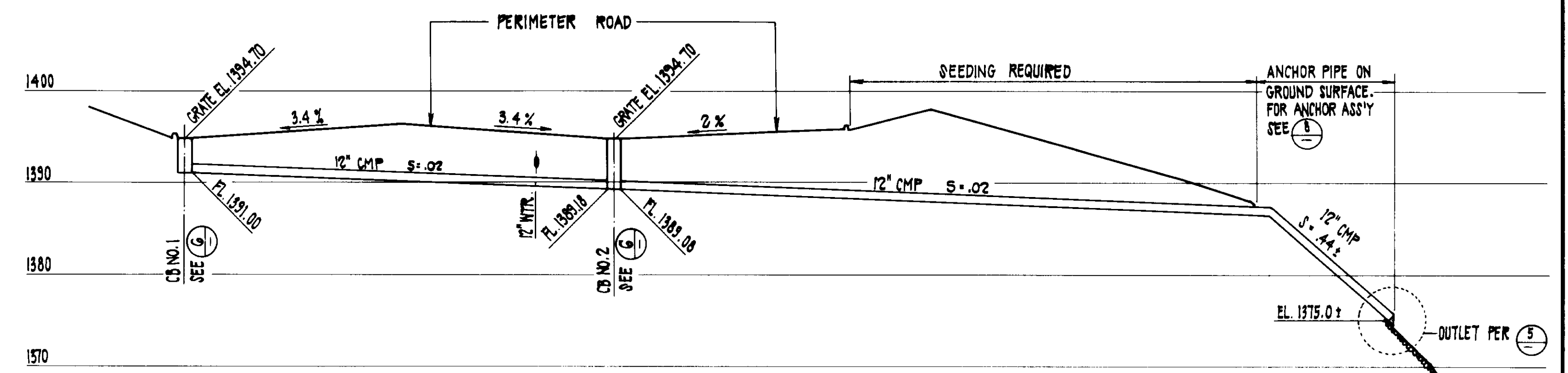
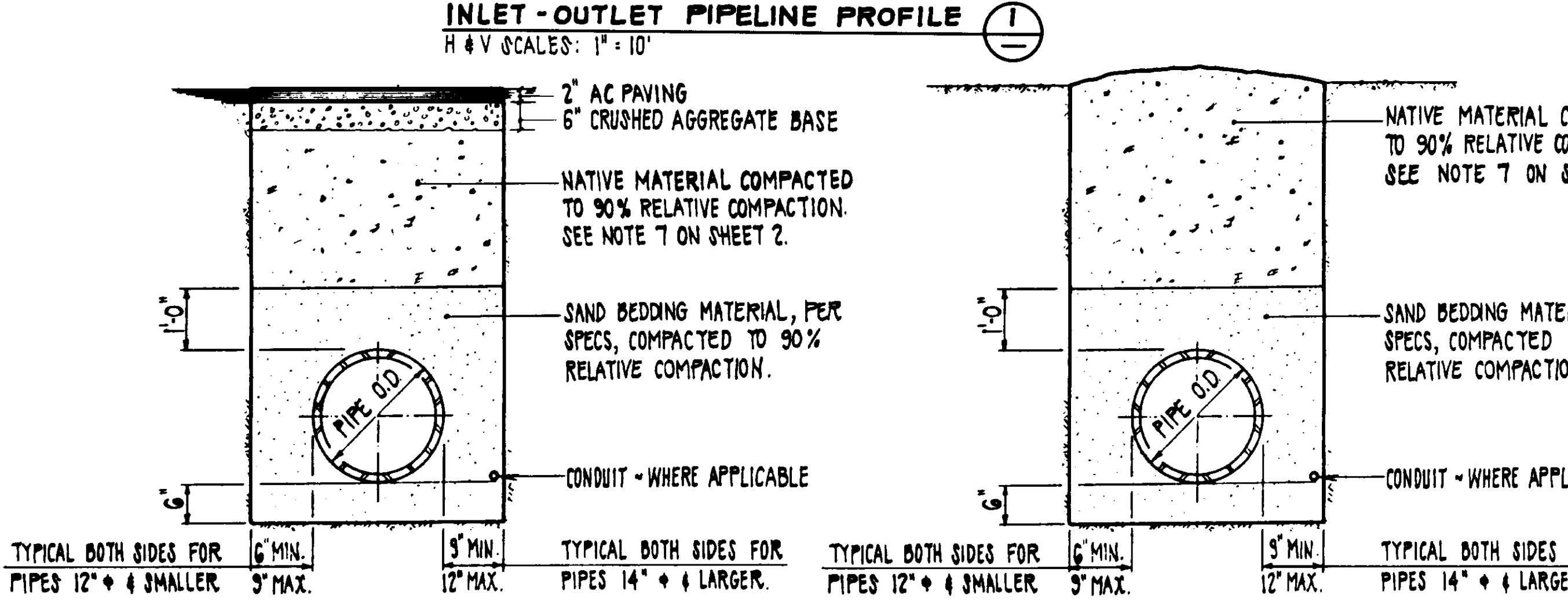
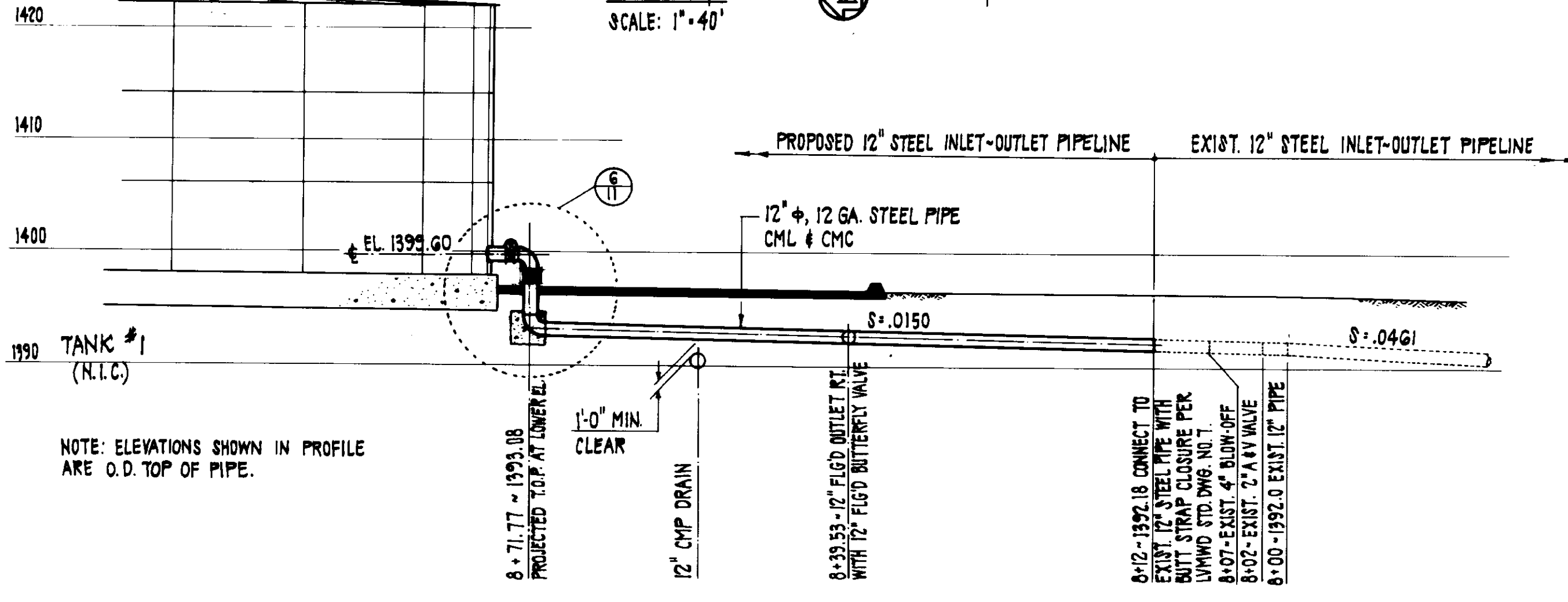
REVISIONS

THIS SET OF DRAWINGS HAS BEEN PREPARED FOR THE FACILITIES IDENTIFIED HEREIN. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.

DATE: 2/26/87
DATE: 12/3/87
DATE: 12/1/87

AGENCY: L.V.W.D.
AGENCY: B.E.R.
AGENCY: B.E.R.

DRAFTED BY: JAV
DRAFTED BY: JAV
DRAFTED BY: JAV

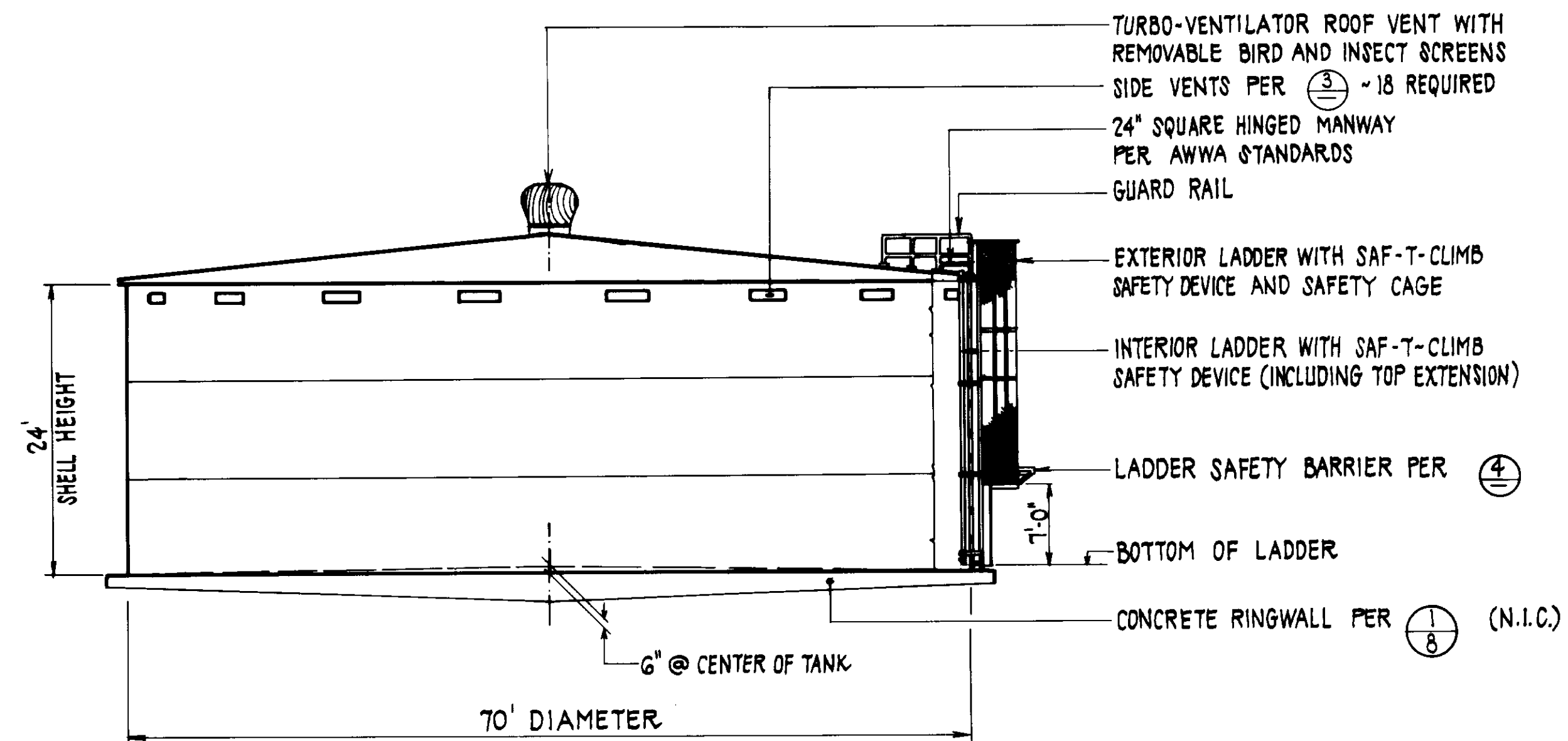


NOTE: JETTING TO ACHIEVE COMPACTION WILL NOT BE PERMITTED AT THE TANK SITE.

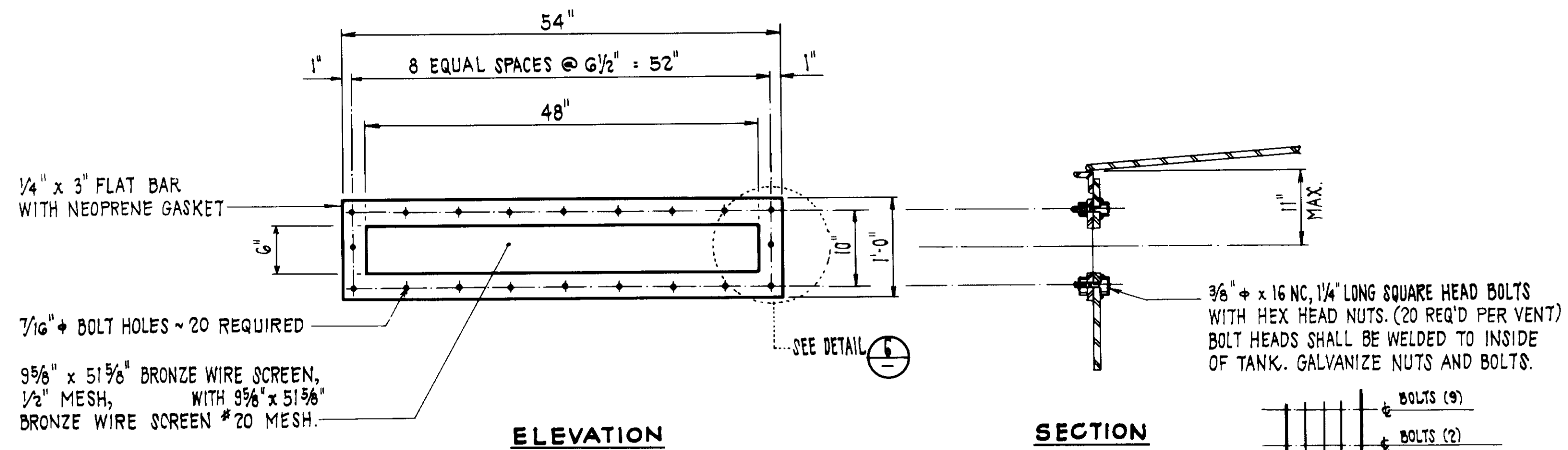
LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION AND TANK
INLET - OUTLET PROFILE AND DRAINAGE DETAILS

ISSUED FOR CONSTRUCTION	DATE: 1-20-86	DESCRIPTION:	SCALE: 3/4" = 1'-0"
<p>REVISIONS</p> <p>NO. DATE DESCRIPTION</p>		<p>DESIGNED BY: JAV</p> <p>CHECKED BY: JAV</p> <p>DRAWN BY: JAV</p> <p>DATE: 2/26/87</p>	

SHEET NO. 9
OF 17 SHEETS
17-LAS-83-01/02
REV. NO. 8-108



TANK ELEVATION ①
SCALE: 1" = 10'

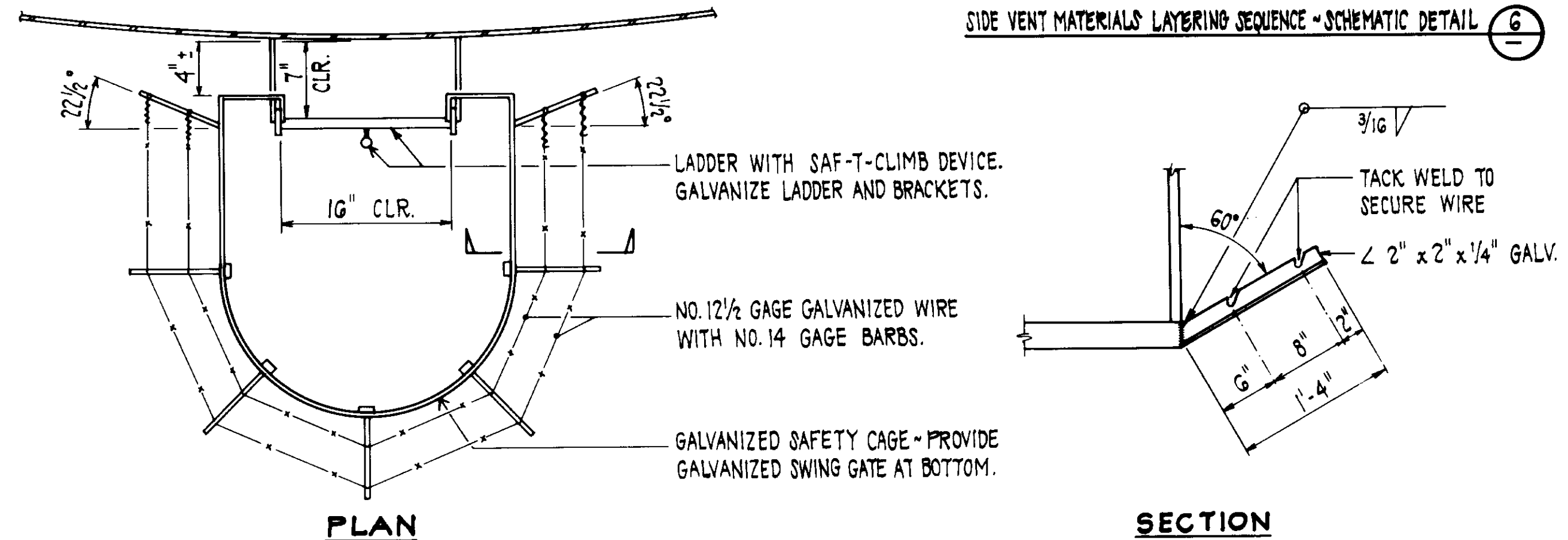


ELEVATION

SIDE VENT DETAIL ③
SCALE: 1" = 1'-0"

SECTION

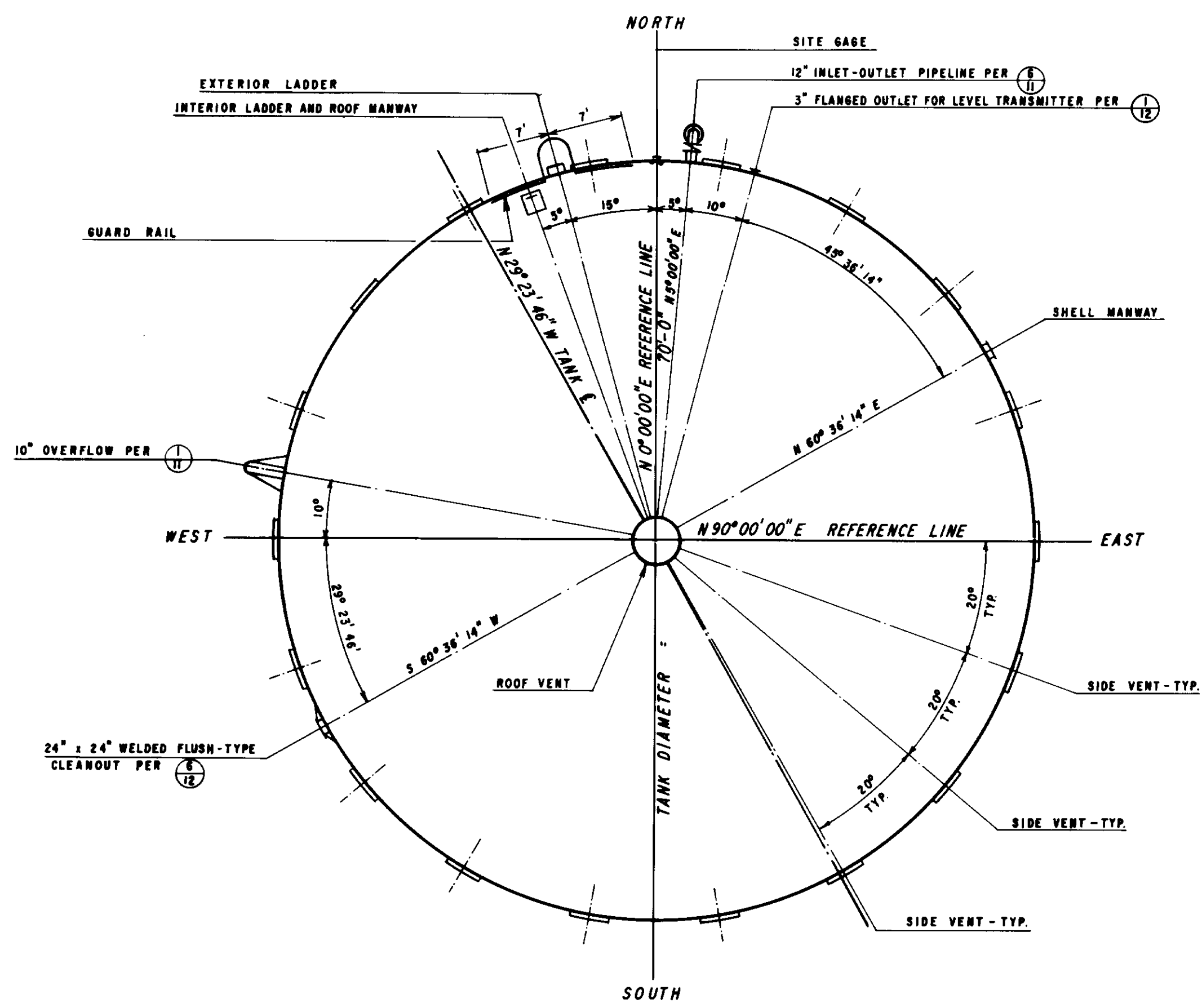
SIDE VENT MATERIALS LAYERING SEQUENCE - SCHEMATIC DETAIL ⑥



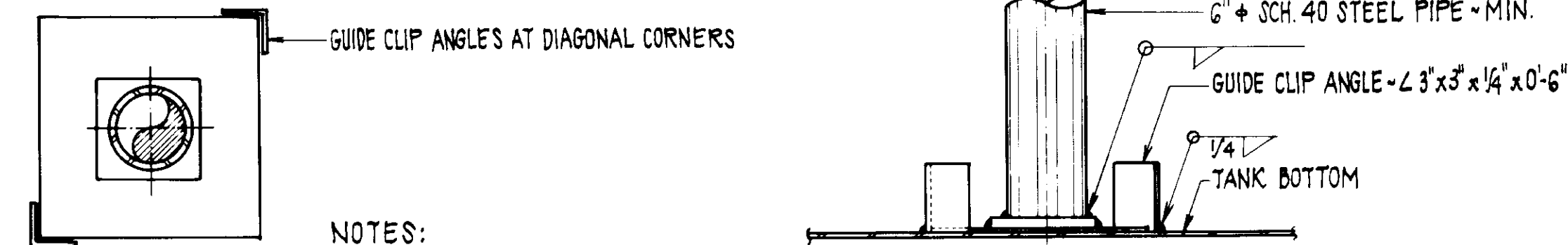
PLAN

LADDER SAFETY BARRIER DETAIL ④
SCALE: NONE

SECTION



TANK PLAN ②
SCALE: 1" = 10'



PLAN

COLUMN BASE DETAIL ⑤
SCALE: NONE

ELEVATION

- NOTES:**
1. SHIM UNDER COLUMN BASES AT SEAMS IN FLOOR PLATES TO PROVIDE UNIFORM BEARING.
 2. CLEAN & COAT BOTTOM OF COLUMN BASES & TOP OF TANK BOTTOM PLATES PRIOR TO INSTALLING COLUMN ASSEMBLY.
 3. DESIGN BASE PLATES FOR ALLOWABLE SOIL BEARING OF 2000 PSF AND BENDING STRESS OF 27,000 PSI. LOAD TO INCLUDE ROOF DEAD AND LIVE LOADS PLUS COLUMN LOAD.

RECORD DRAWING

THIS RECORD DRAWING IS TO BE USED FOR THE IDENTIFICATION OF THE FACILITIES AND EQUIPMENT IDENTIFIED HEREON. IT HAS BEEN PREPARED BY THE DESIGNER AND THE CONTRACTOR AND THE CONTRACTOR HAS BEEN ADVISED OF THE NATURE AND EXTENT OF HIS OBLIGATIONS AND THE CONSEQUENCES OF HIS FAILURE TO COMPLY THEREWITH.

CONST. INS. SAU. LINDO 2/26/00
 DRAFTED BY: JPH. AGENCY: B.E.C. DATE: 12/18/97
 PROJ. ENGR: R. AGENCY: B.E.C. DATE: 12/18/97

REV	DATE	DESCRIPTION	APP
1-20-06		ISSUED FOR CONSTRUCTION	

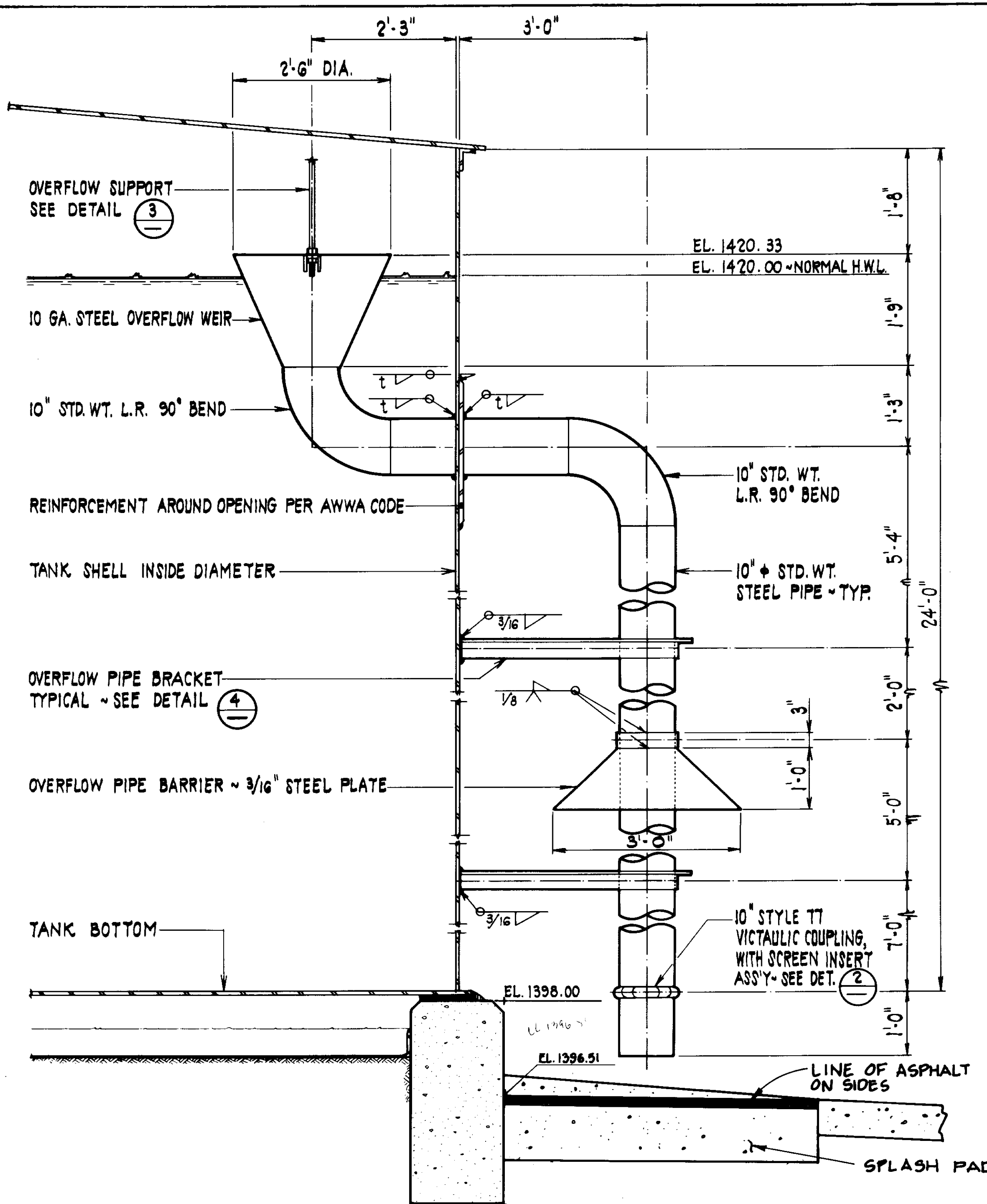
LAS VIRGENES MUNICIPAL WATER DISTRICT
 JED SMITH PUMP STATION AND TANK
 TANK LAYOUT AND DETAILS

DESIGN: FEL
 CHECK: HHR
 DATE: 12/18/97

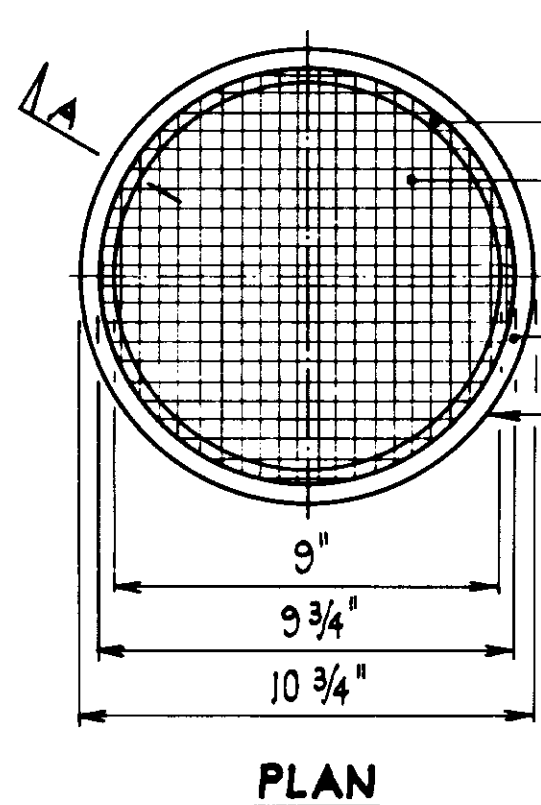
B Bouie Engineering Corporation
 CONSULTING ENGINEERS / ARCHITECTS
 VENTURA, CA.

SHEET NO. 10
 OF 17 SHEETS
 WT-100-483-01/02
 DWG. NO. S-106

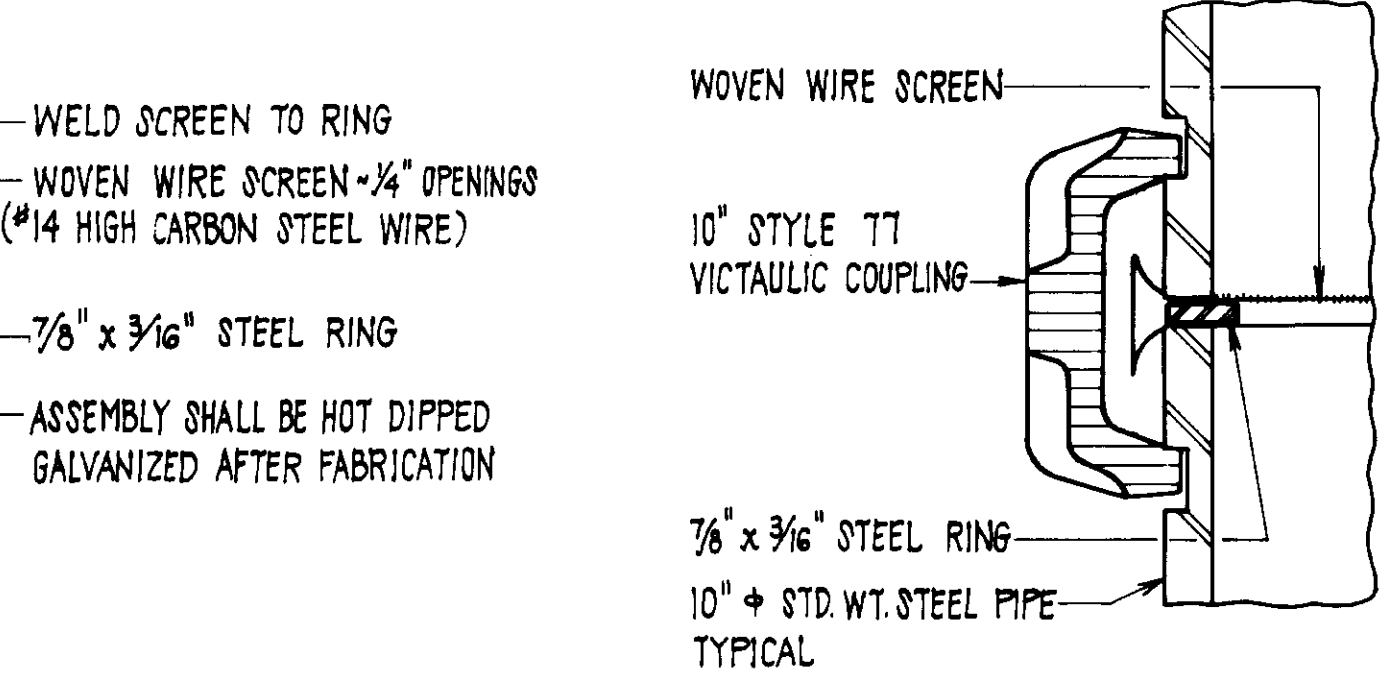
05635



TANK OVERFLOW DETAIL (1)
SCALE: 3/4" = 1'-0"

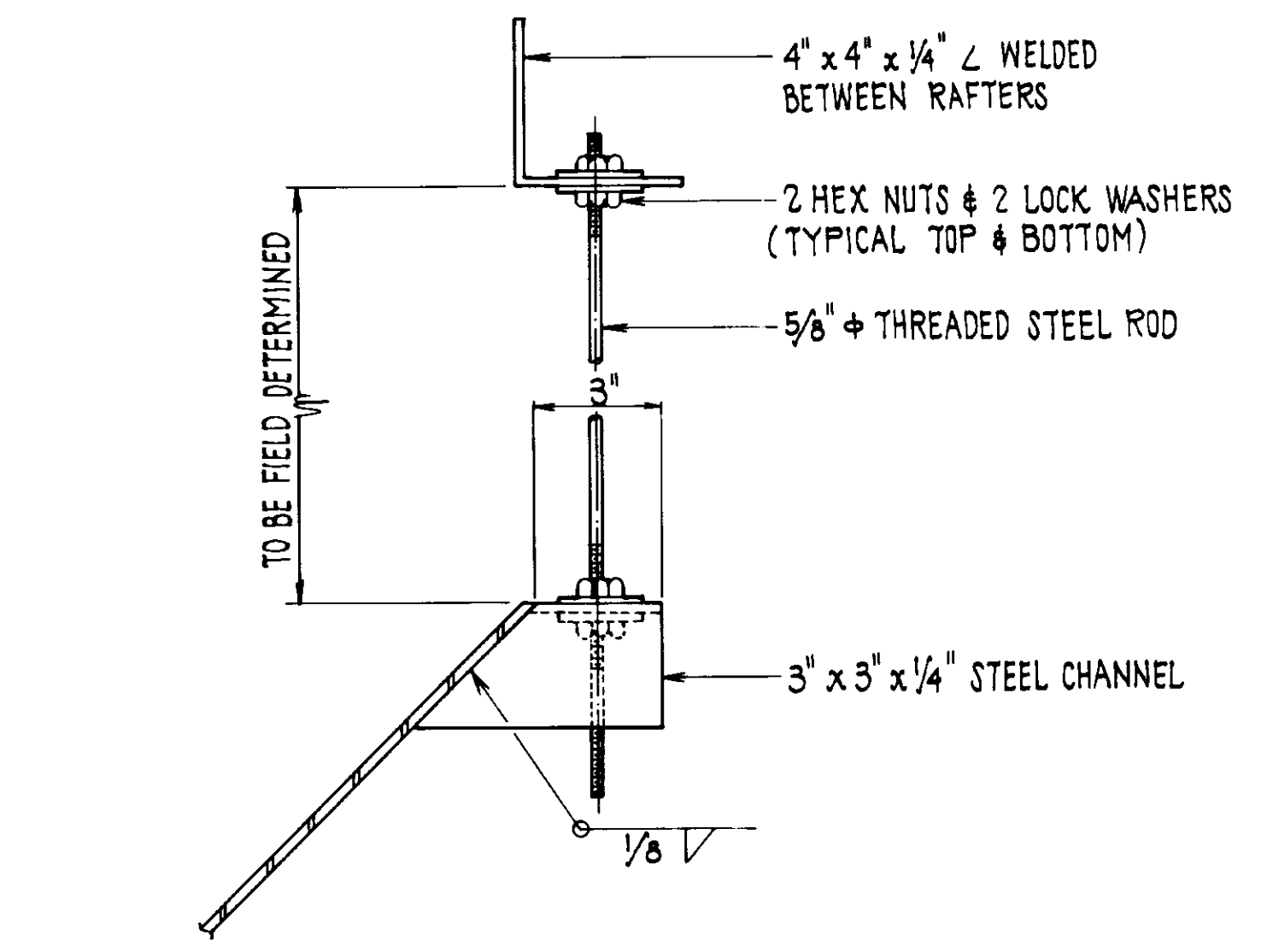


PLAN

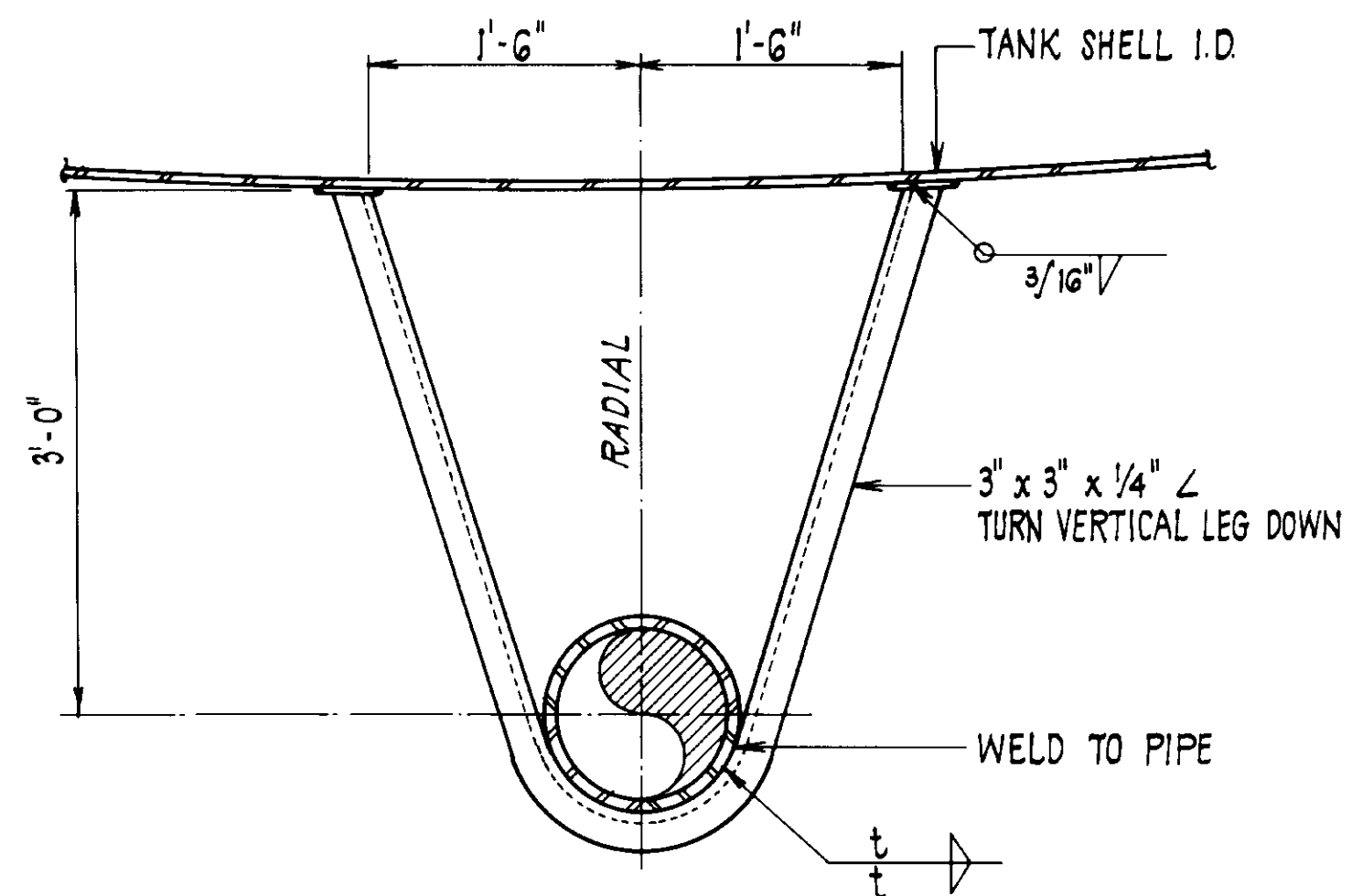


SECTION A-A

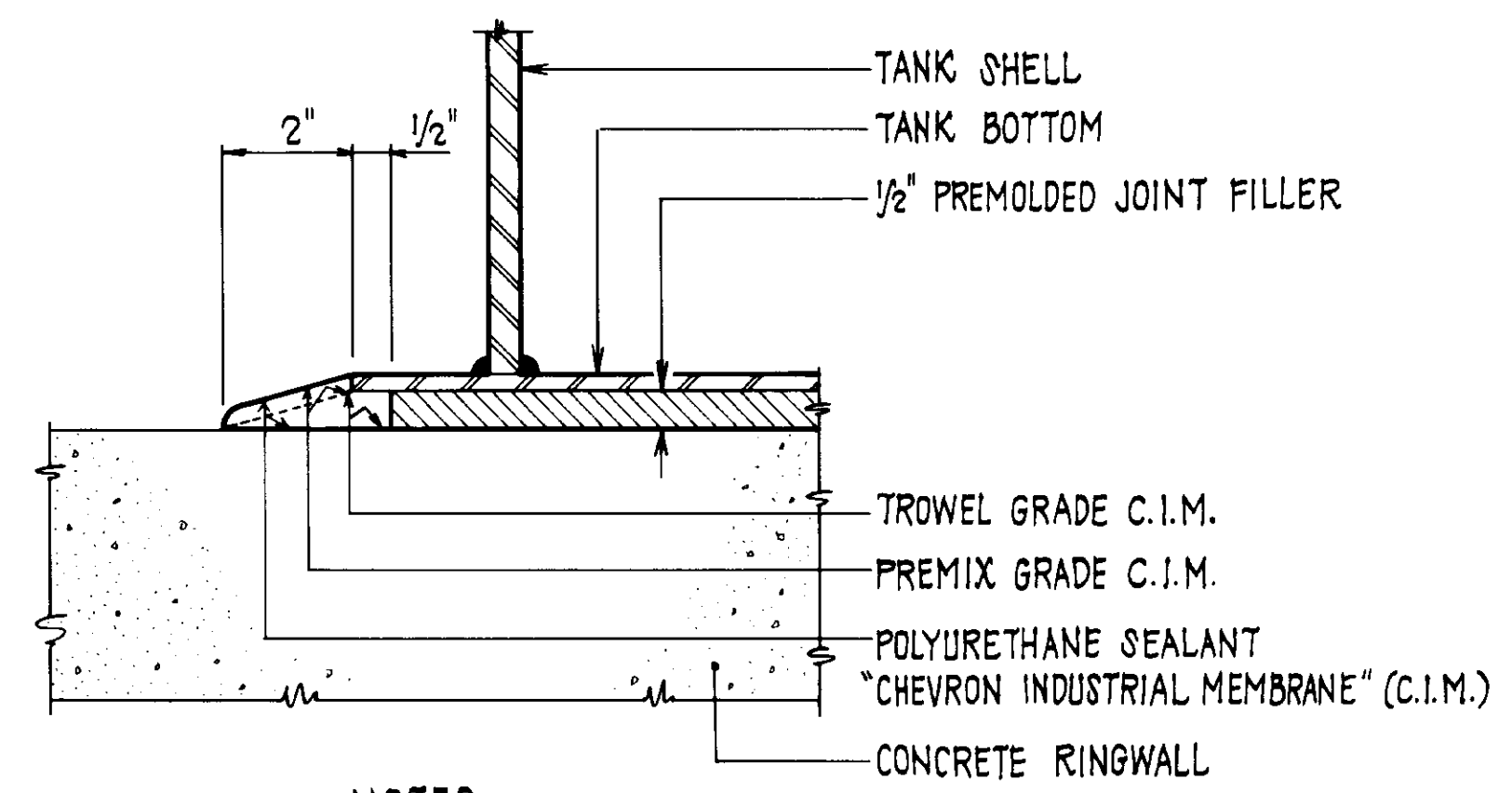
SCREEN INSERT ASSEMBLY DETAIL (2)
SCALE: NONE



OVERFLOW SUPPORT DETAIL (3)
SCALE: NONE

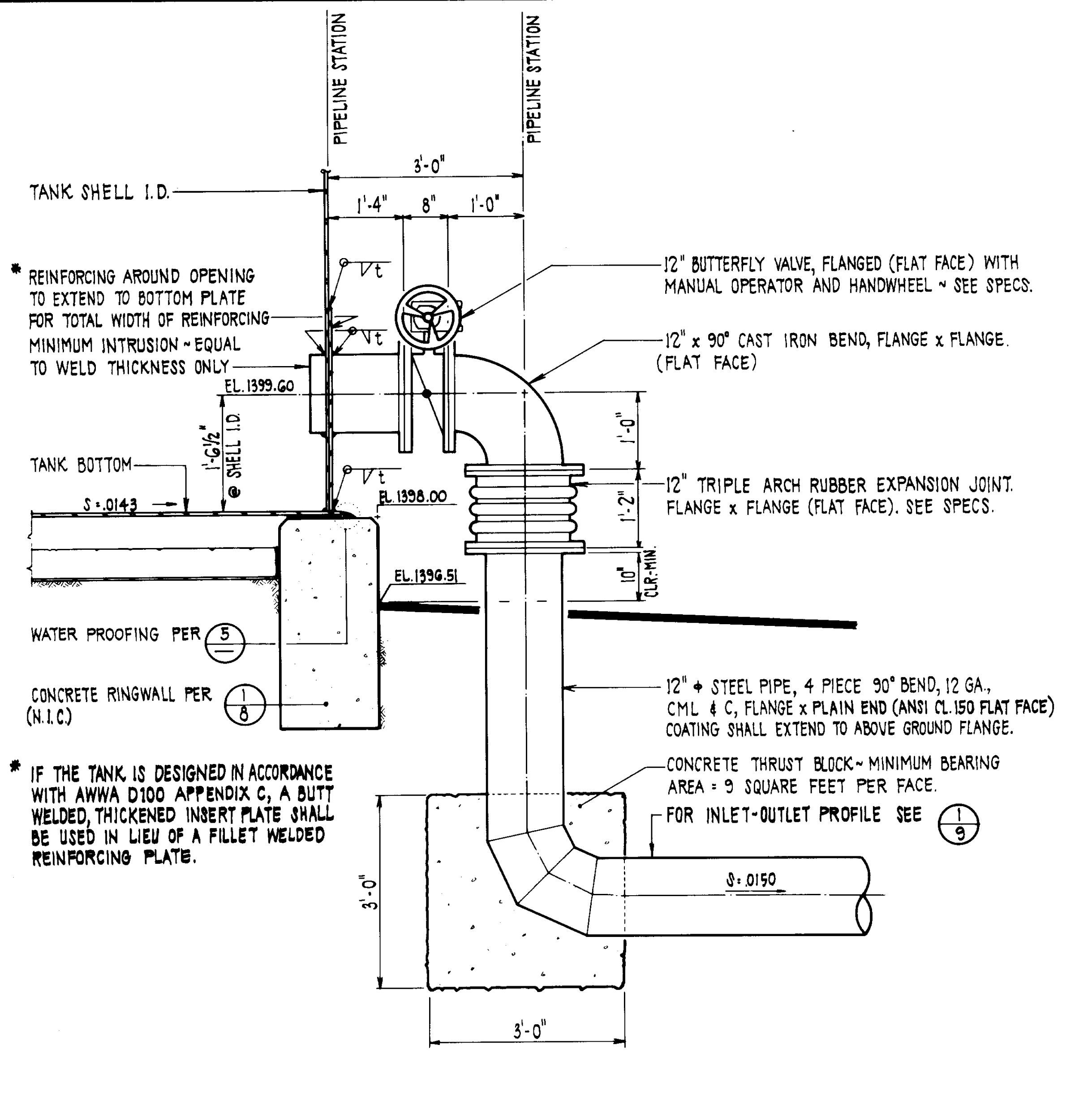


OVERFLOW PIPE BRACKET DETAIL (4)
SCALE: 1" = 1'-0"

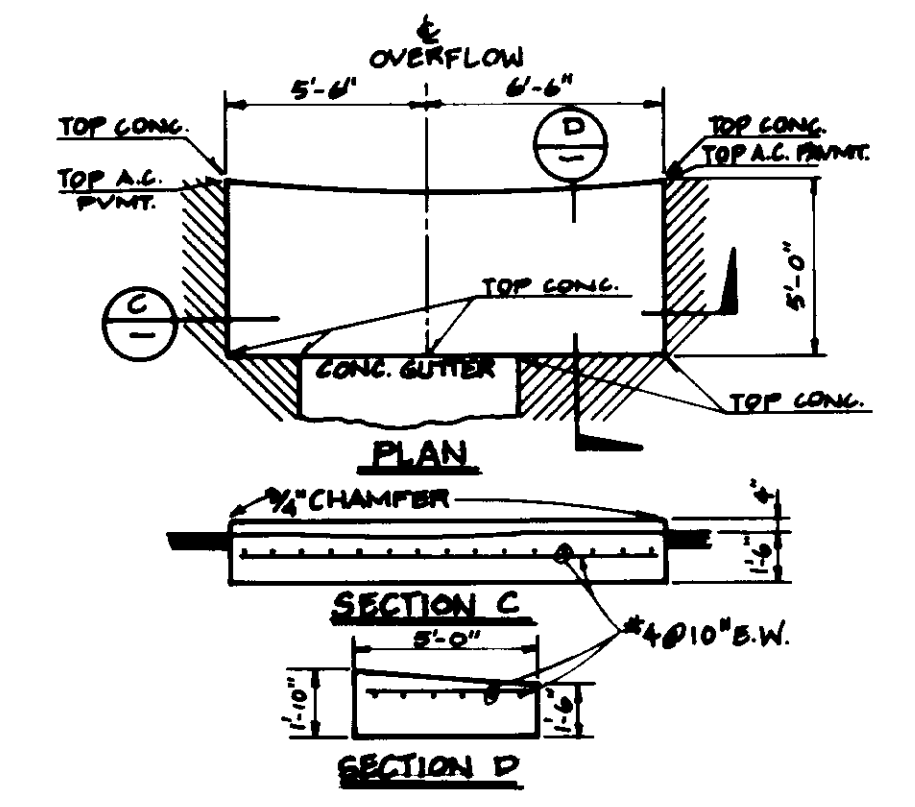


- NOTES**
- C.I.M. SHALL BE PAINTED SAME AS STEEL TANK AFTER PAINTING WITH ACRYLIC.
 - CONCRETE AND STEEL SURFACES SHALL BE SANDBLASTED PRIOR TO PLACING C.I.M.

WATER PROOFING DETAIL (5)
SCALE: NONE



INLET/OUTLET PIPING DETAIL (6)
SCALE: 3/4" = 1'-0"



SPLASH PAD (11)
SCALE: NONE

05636

RECORD DRAWING
THIS RECORD DRAWING IS THE PROPERTY OF THE CONSULTING ENGINEER ARCHITECTS AND SHOULD NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE CONSULTING ENGINEER ARCHITECTS.
CONSULTING ENGINEER ARCHITECTS: J.A.V. LAND... 2-26-82
DRAFTED BY: J.S.H. B.E.C. DATE: 12/18/82
PROJECT: J.V. AGENCY: B.E.C. DATE: 12/18/82

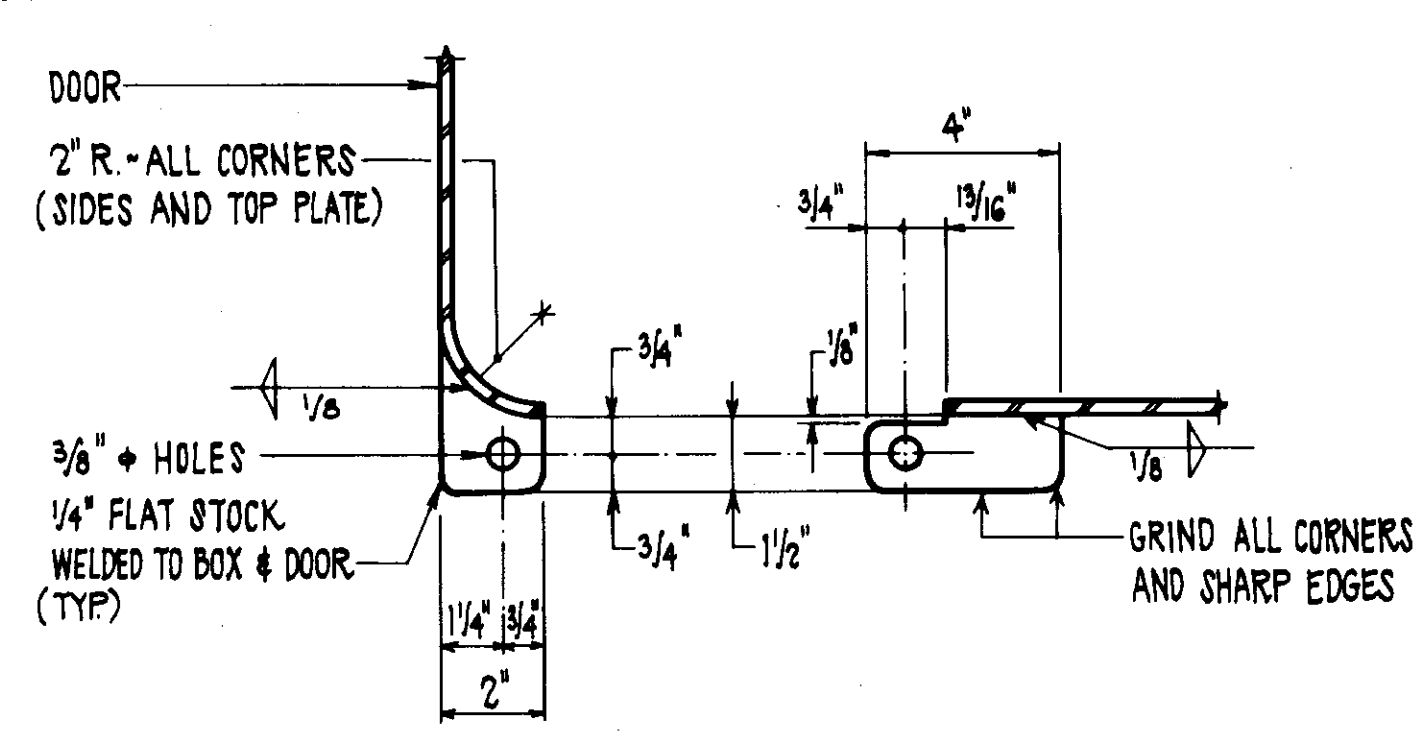
LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION AND TANK

MISCELLANEOUS TANK DETAILS

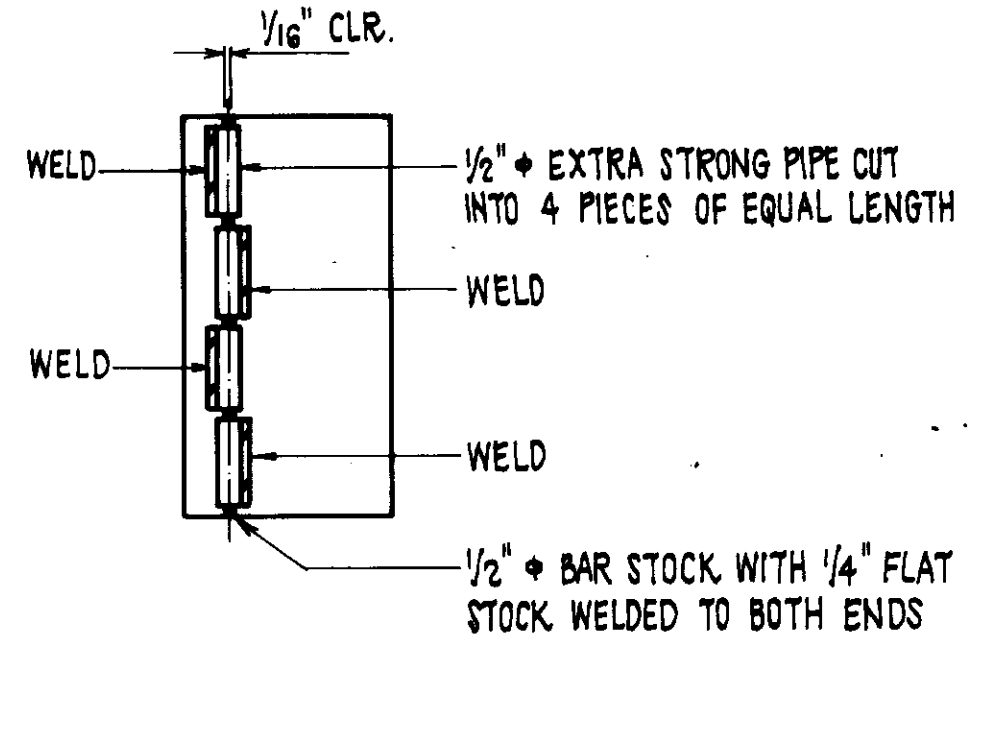
DESIGN: F.E.L.	DATE: 1-20-86	ISSUED FOR CONSTRUCTION	BY: J.E.D.
CHECKED: H.H.R.	DATE: 1-20-86	ISSUED FOR CONSTRUCTION	BY: J.E.D.
APPROVED: J.E.D.	DATE: 1-20-86	ISSUED FOR CONSTRUCTION	BY: J.E.D.

LEVEL TRANSMITTER ASSEMBLY

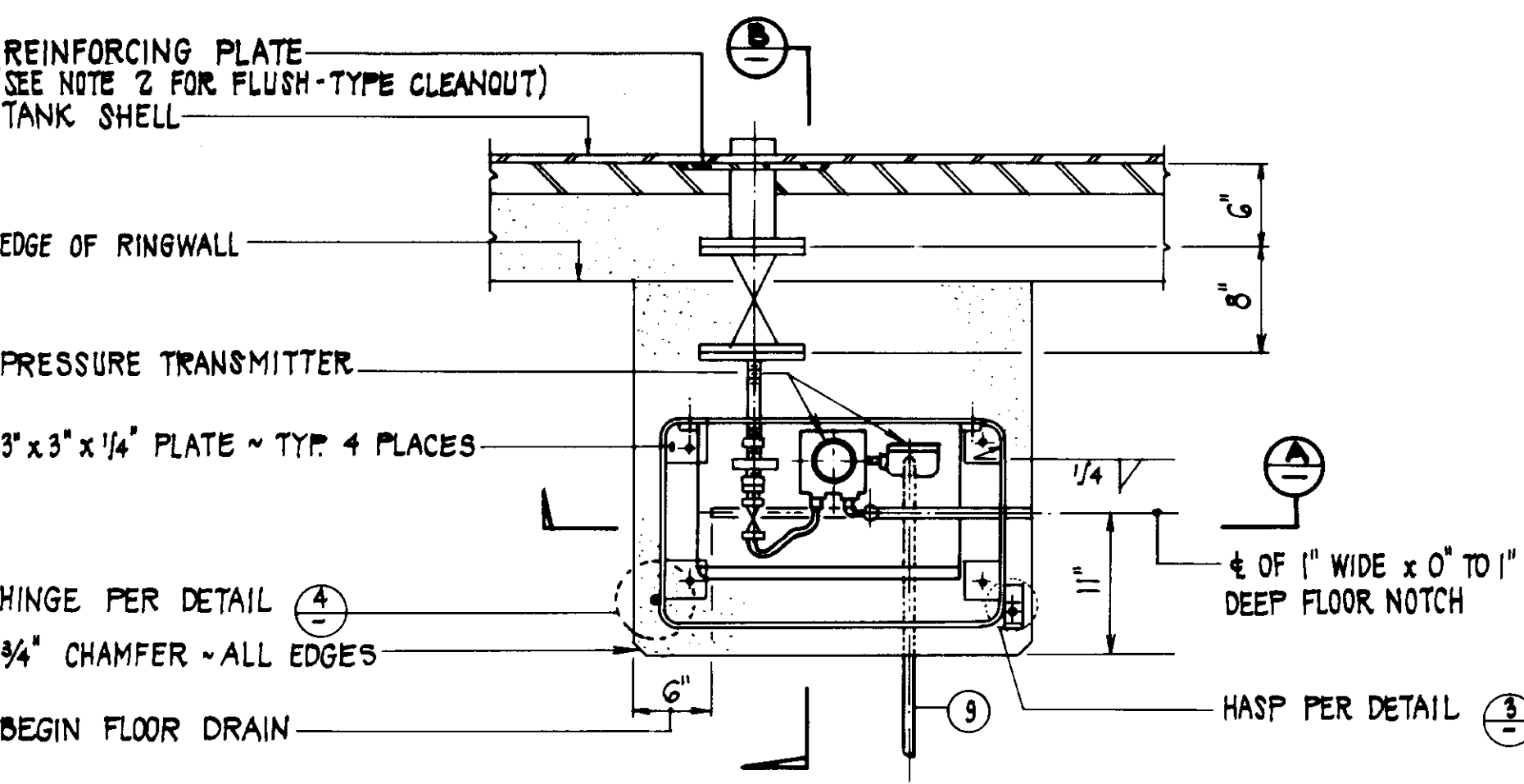
- ① 3" GATE VALVE ~ FLANGE x FLANGE.
- ② 3" STEEL BLIND FLANGE - PROVIDE 1/4" N.P.T. HOLE FOR 1/4" x 1" NYLON INSULATING BUSHING.
- ③ 1" STD. BRASS NIPPLE.
- ④ 1" STD. BRASS TEE.
- ⑤ 1" x 1/2" REDUCING BRASS BUSHING.
- ⑥ 1" x 1/4" REDUCING BRASS BUSHING.
- ⑦ 1/2" NON-RISING STEM BRONZE GATE VALVE, THREADED, WITH 1/2" BRASS NIPPLE.
- ⑧ 3/2" PRESSURE GAUGE, 0 TO 30 P.S.I.G., MARSH NO. H0242.
- ⑨ 1/4" ELECTRICAL CONDUIT WITH LONG SWEEP.
- ⑩ 1/2" ANCHOR BOLT.



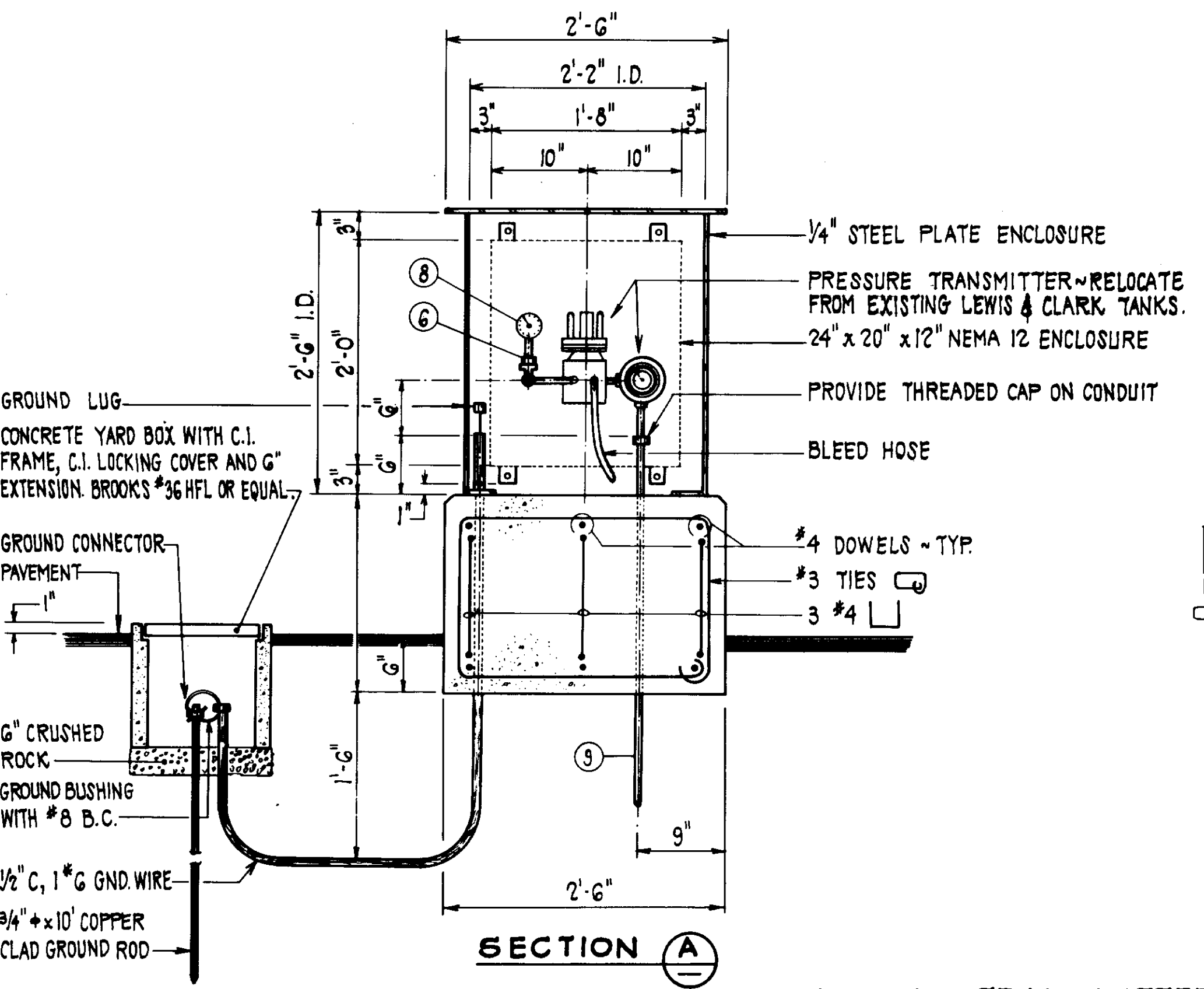
HASP DETAIL ③
SCALE: NONE



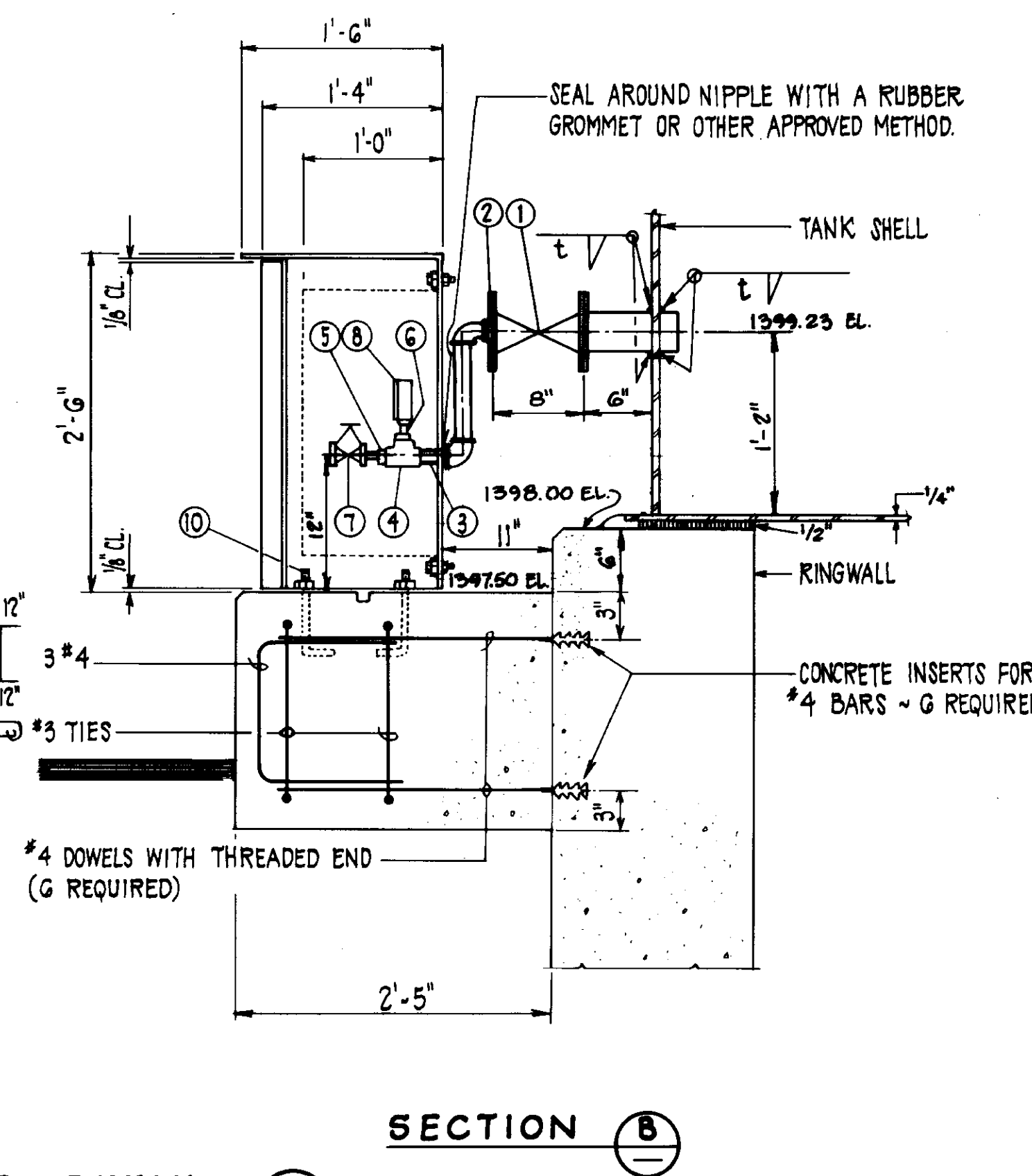
HINGE DETAIL ④
SCALE: NONE



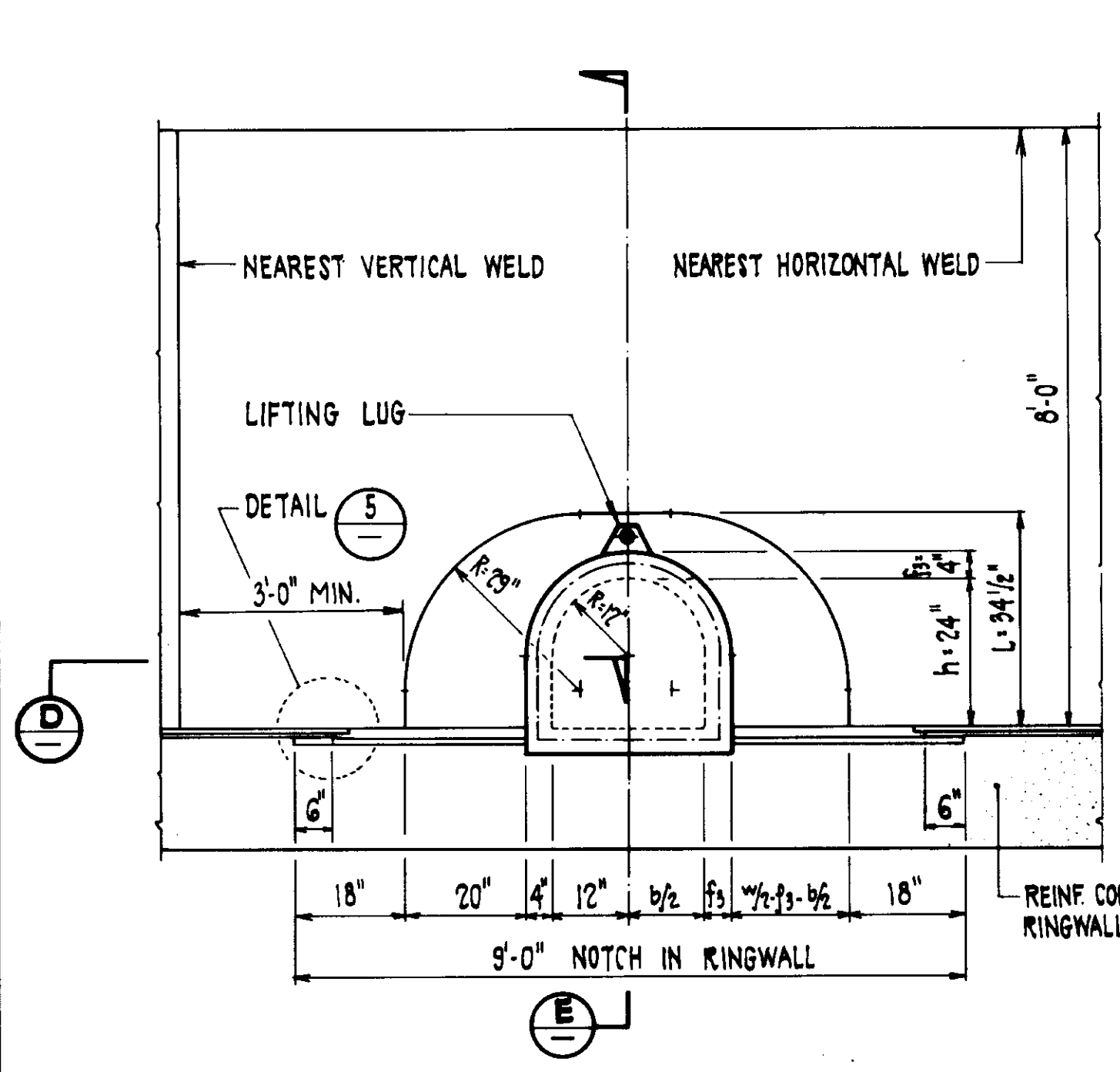
LEVEL TRANSMITTER PLAN ①
SCALE: 1" = 1'-0"



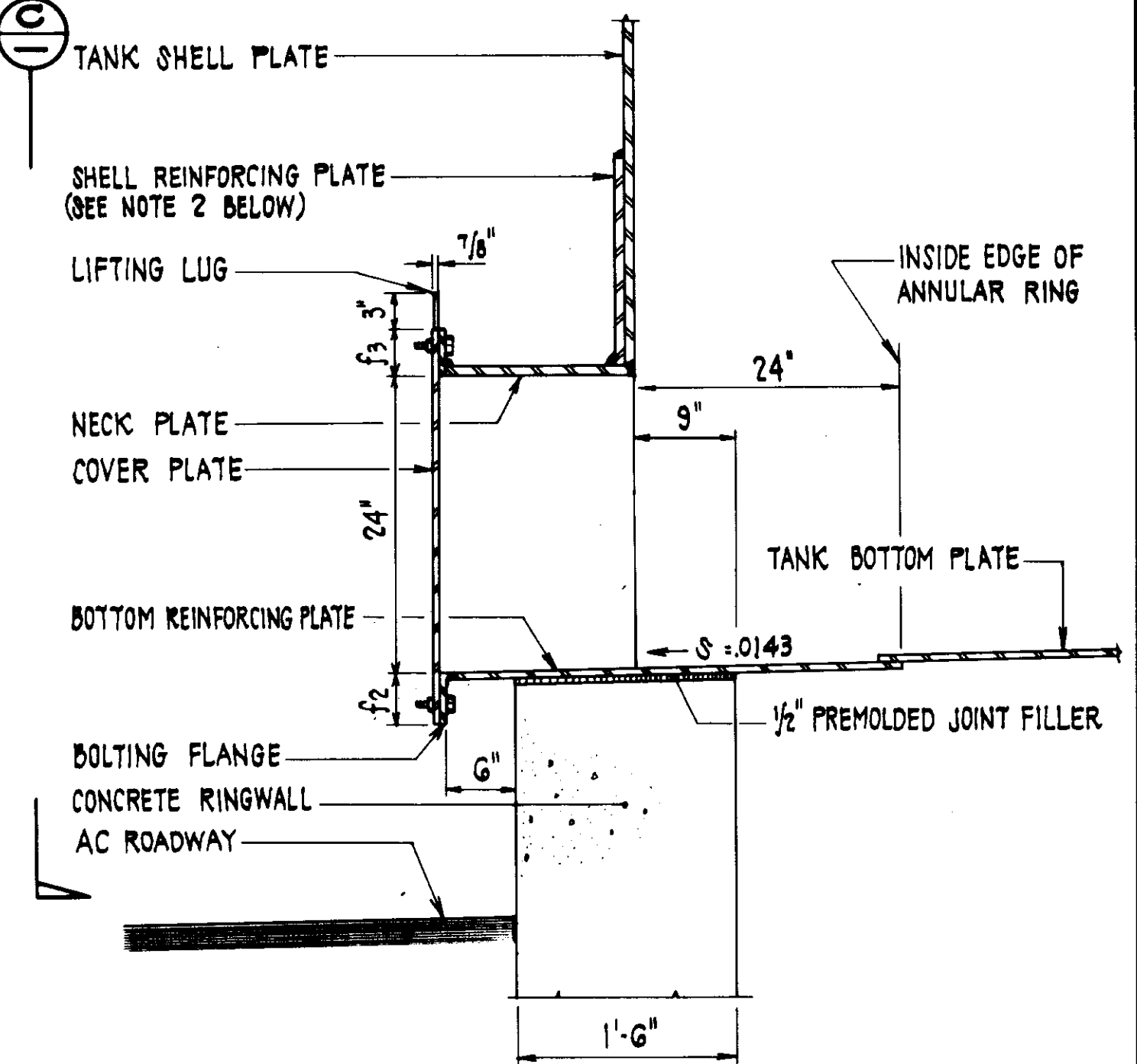
LEVEL TRANSMITTER DETAIL ②
SCALE: 1" = 1'-0"



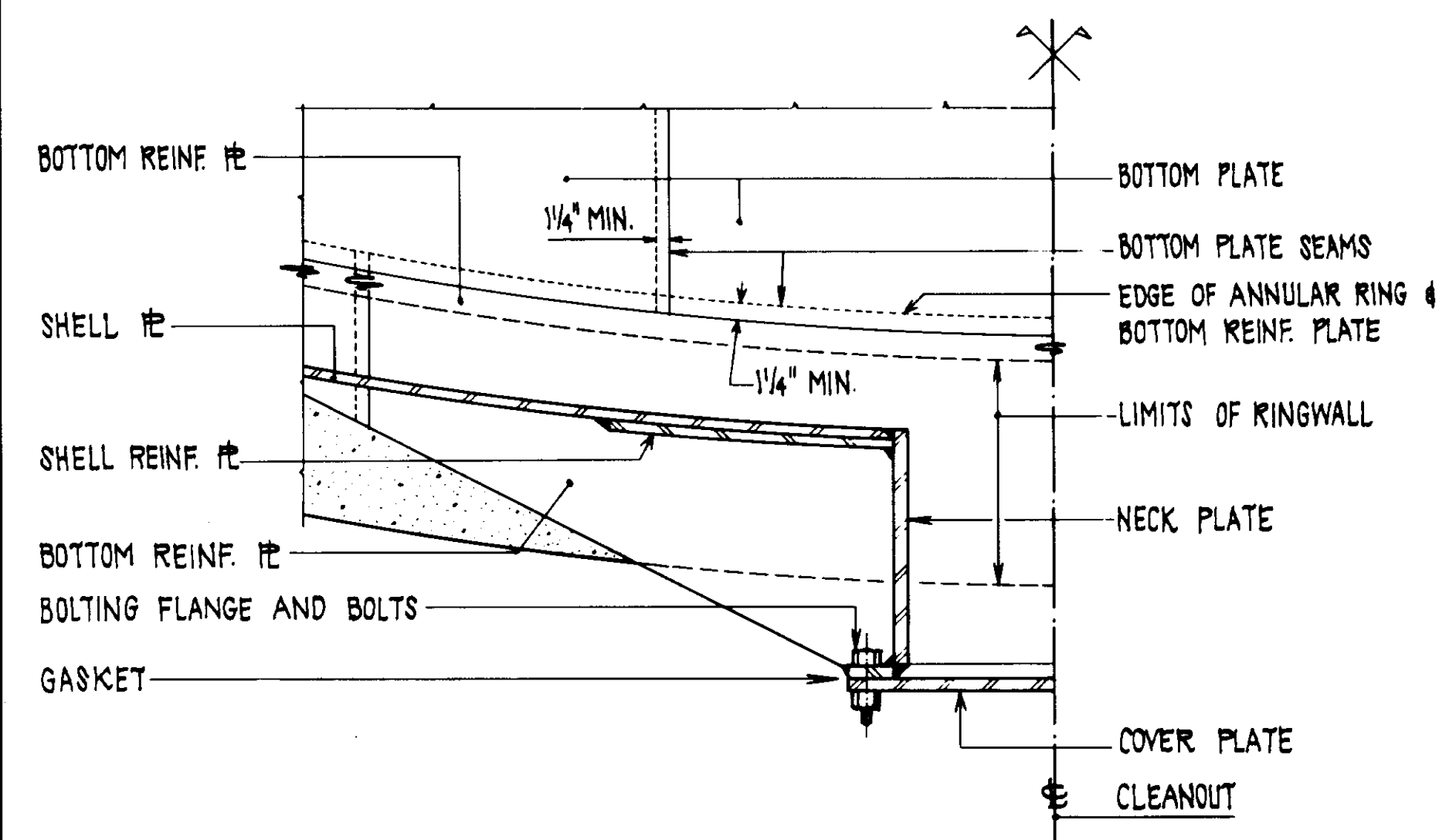
SECTION B



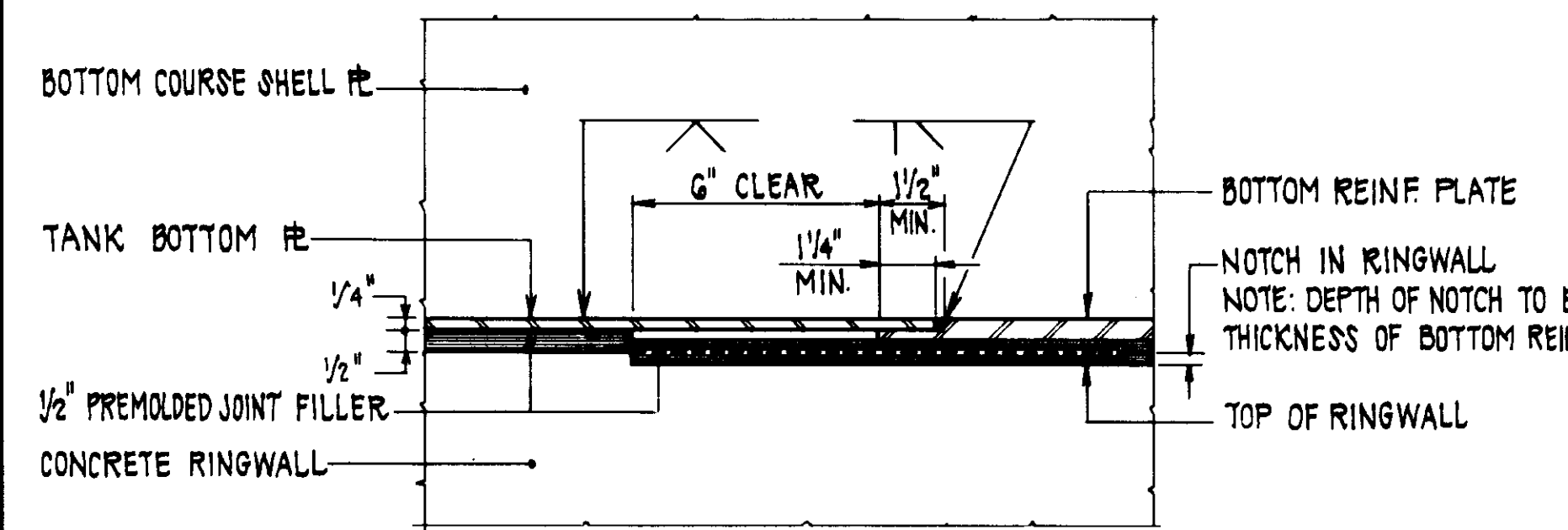
ELEVATION ⑥
SCALE: 1/2" = 1'-0"



SECTION E
SCALE: 1" = 1'-0"



SECTION D
SCALE: 1" = 1'-0"



DETAIL ⑤
SCALE: 3" = 1'-0"

TANK FLUSH-TYPE CLEANOUT DETAILS ⑥
SCALE: AS SHOWN

- NOTES**
- FOR LOCATION OF CLEANOUT SEE TANK PLAN ON SHEET 10. CLEANOUT SHALL BE CONSTRUCTED IN ACCORDANCE WITH A.P.I. STANDARD 650.
 - IF THE TANK IS DESIGNED IN ACCORDANCE WITH ANWA D100 APPENDIX C, A BUTT WELDED THICKENED INSERT PLATE SHALL BE USED IN LIEU OF A FILLET WELDED REINFORCING PLATE.

RECORD DRAWING

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CONST. INSP. SAU. DATE 12/26/88
 VENTURA, CA. AGENCY. BEC. DATE 12/18/87
 PROJ. ENGR. RVL. AGENCY. BEC. DATE 12/18/87

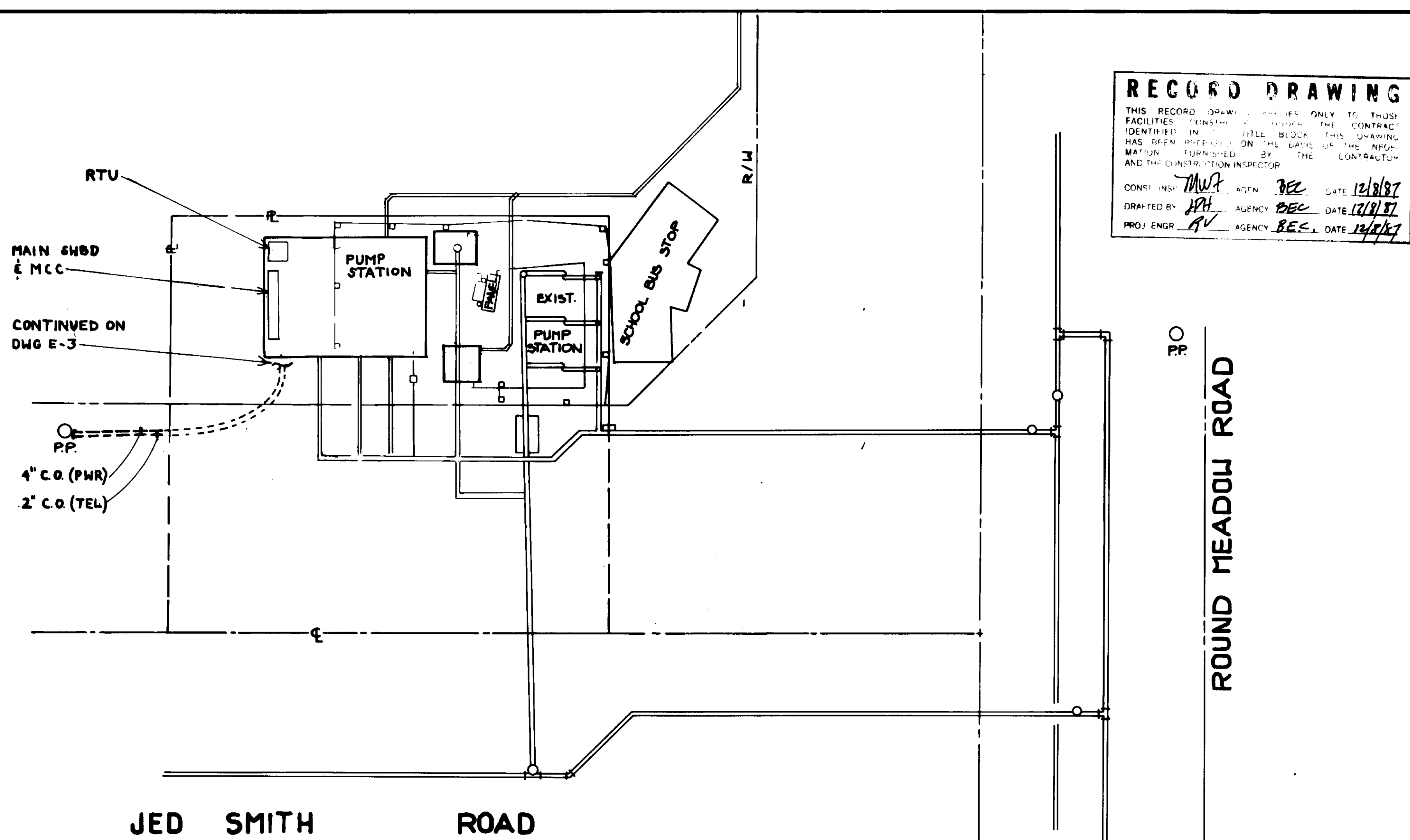
05637

LAS VIRGENES MUNICIPAL WATER DISTRICT
 JED SMITH PUMP STATION AND TANK
 LEVEL TRANSMITTER AND TANK CLEANOUT DETAILS

DESIGN	F.E.L.	DATE	12/26/88
DRAWN	H.K.R.	DATE	12/18/87
CHECKED	J.E.D.	DATE	12/18/87
APPROVED	J.E.D.	DATE	12/18/87

ISSUED FOR CONSTRUCTION

RECORD DRAWING
 THIS RECORD DRAWING APPLIES ONLY TO THOSE FACILITIES INSTALLED UNDER THE CONTRACT IDENTIFIED IN THE TITLE BLOCK. THIS DRAWING HAS BEEN PREPARED ON THE DATE OF THE INFORMATION FURNISHED BY THE CONTRACTOR AND THE CONSTRUCTION INSPECTOR.
 CONST. INST. *MWP* AGENCY *BEC* DATE *12/18/87*
 DRAFTED BY *JPH* AGENCY *BEC* DATE *12/18/87*
 PROJ. ENGR. *AV* AGENCY *BEC* DATE *12/18/87*



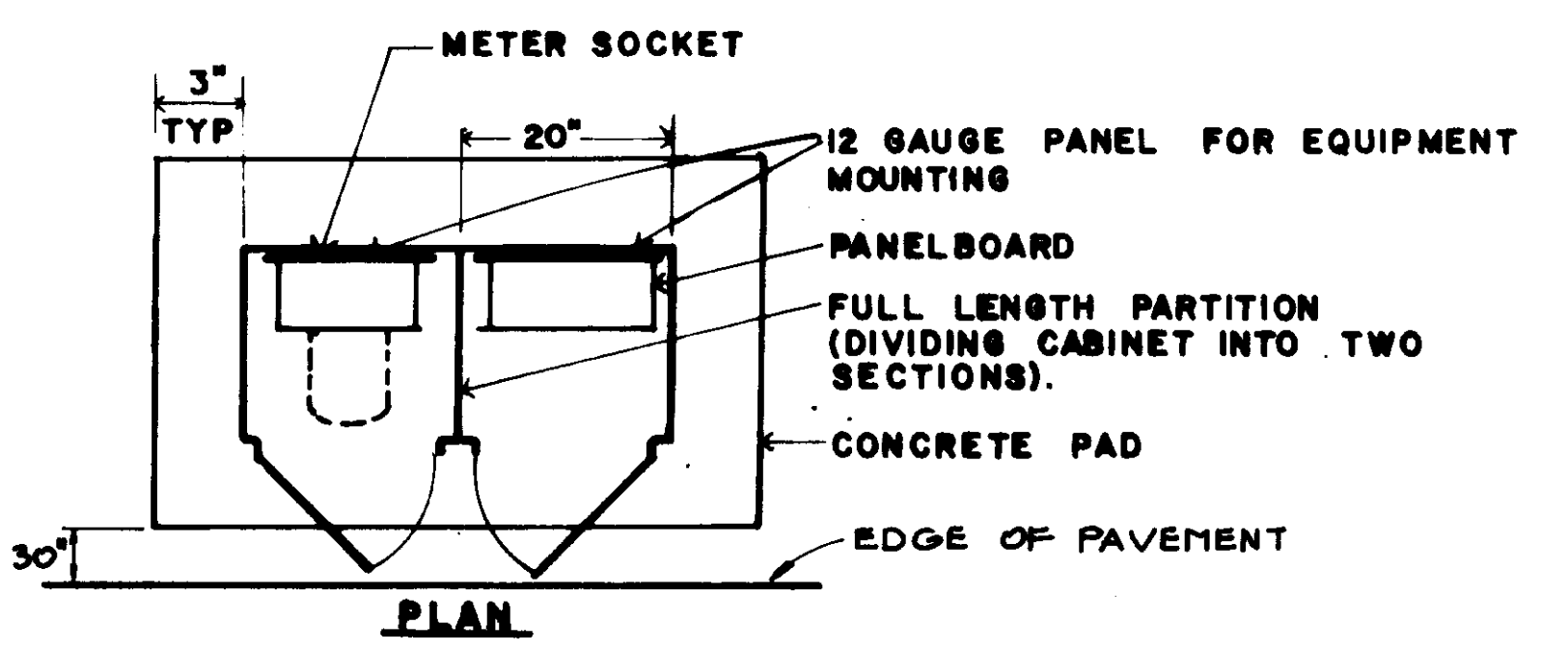
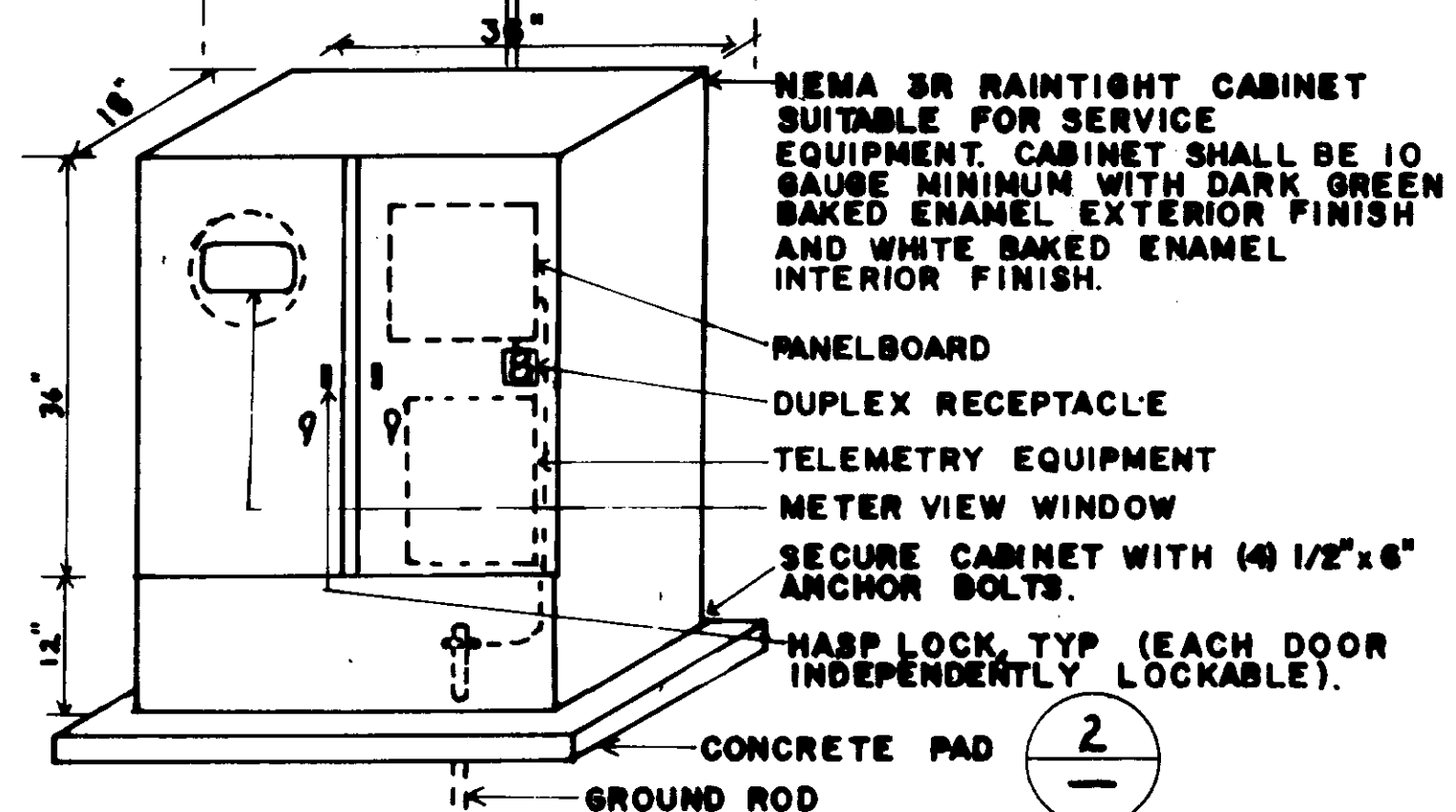
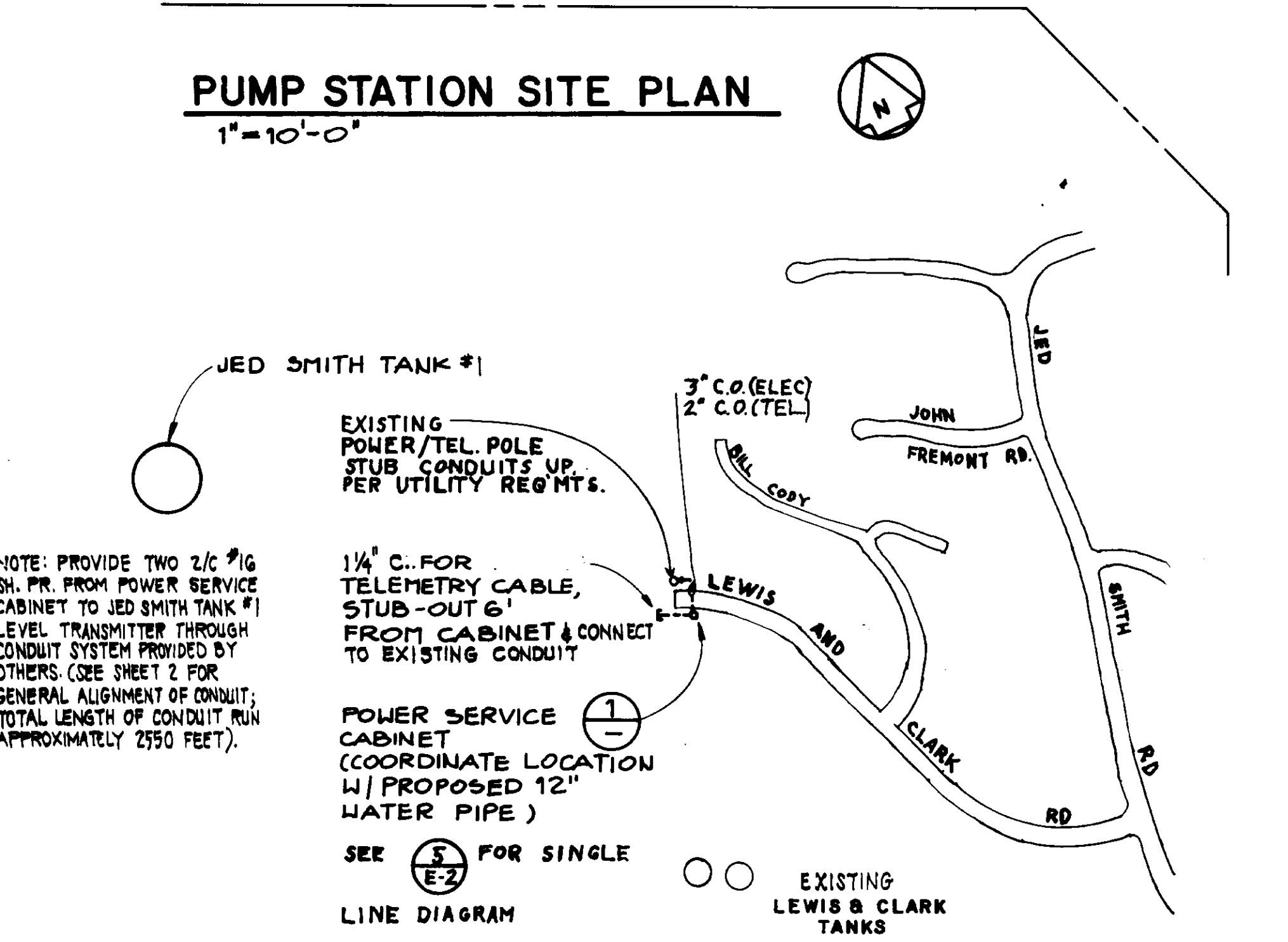
ELECTRICAL SYMBOLS - SCHEMATIC DIAGRAMS

NORMALLY OPEN	NORMALLY CLOSED	DEVICE
+	-	CONTACT
⌘	⌘	TIMED CONTACT CONTACT ACTION RETARDED ON ENERGIZATION
⌘	⌘	TIMED CONTACT CONTACT ACTION RETARDED ON DE-ENERGIZATION
⌘	⌘	PUSH BUTTON SINGLE CIRCUIT MOMENTARY CONTACT
⌘	⌘	PUSH BUTTON SINGLE CIRCUIT LOCK-OUT
⌘	⌘	LIMIT SWITCH
⌘	⌘	LIMIT SWITCH HELD CLOSED
⌘	⌘	LIMIT SWITCH HELD OPEN
⌘	⌘	LIQUID-LEVEL ACTUATED SWITCH
⌘	⌘	PRESSURE OR VACUUM ACTUATED SWITCH
⌘	⌘	TEMPERATURE ACTUATED SWITCH
⌘	⌘	SELECTOR SWITCH
⌘	⌘	MOTOR OVERLOAD HEATERS
⌘	⌘	PILOT LIGHT R = RED, W = WHITE, G = GREEN
⌘	⌘	RELAY
⌘	⌘	120V, SINGLE PHASE MOTOR
⌘	⌘	ELAPSED TIME METER

ELECTRICAL SYMBOLS - PLANS

CLG	WALL	FLR	SYMBOL DESCRIPTION
○	⊗		INCANDESCENT OR HID FIXTURE
⊗	⊗		FLUORESCENT FIXTURE - CIRCLE INDICATES OUTLET
⊗	⊗	⊗	DUPLEX RECEPTACLE
	⊗	⊗	THERMOSTAT OUTLET + 68° UOM
	⊗		JUNCTION BOX
	⊗		SINGLE POLE SWITCH
	---		CONDUIT CONCEALED IN WALLS OR CEILINGS
	---		CONDUIT IN SLAB OR UNDER GROUND
	---		CONDUIT EXPOSED
	---		QUANTITY #12 WIRE, 2 #12 UOM
	---		GROUNDING CONDUCTOR 12" BELOW GRADE
	---		HOMERUN TO PANEL R, CIRCUITS 1 AND 3
	---		CONDUIT BENDS TOWARD OBSERVER
	---		CONDUIT BENDS AWAY FROM OBSERVER
	---		FLEXIBLE CONNECTION
	---		INDICATES HEIGHT FROM FINISHED FLOOR OR GRADE TO CENTERLINE OF DEVICE
	---		+12° UOM
	---		+48° UOM
	---		SEE CONDUIT FILL TABLE FOR CONDUIT SIZE

PUMP STATION SITE PLAN
 1" = 10'-0"



POWER SERVICE CABINET DETAIL
 N.T.S.

ELECTRICAL SYMBOLS - SINGLE LINE DIAGRAM

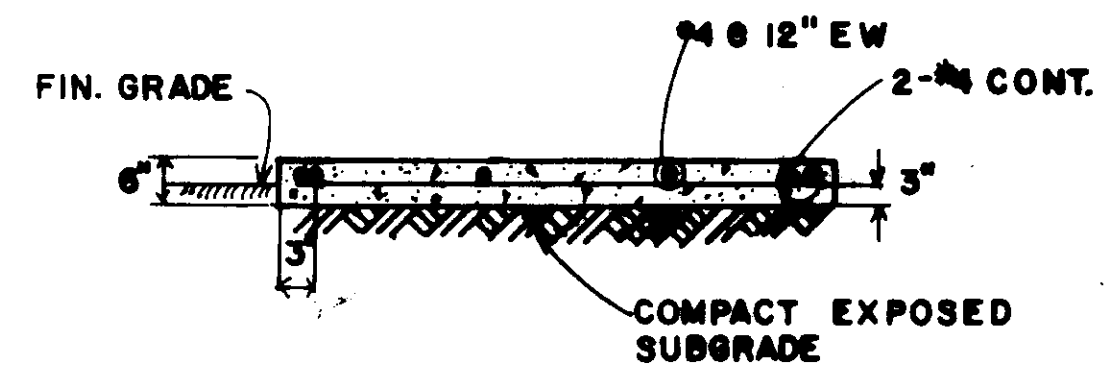
⊗	UTILITY METERING
⊗	AMMETER
⊗	VOLTMETER
⊗	AMMETER SWITCH
⊗	VOLTMETER SWITCH
⊗	CURRENT TRANSFORMER, QUANTITY INDICATED
⊗	POTENTIAL TRANSFORMER, QUANTITY INDICATED
⊗	POWER TRANSFORMER
⊗	CIRCUIT BREAKER, 3 POLE UNLESS NOTED HCP INDICATES MOTOR CIRCUIT PROTECTOR
⊗	SWITCH
⊗	MAGNETIC MOTOR STARTER, NEMA SIZE INDICATED FULL-VOLTAGE NON-REVERSING UNLESS NOTED RV = REDUCED VOLTAGE STARTING 2S, 2W = 2 SPEED, 2 WINDING
⊗	FUSE
⊗	MOTOR, 10 HORSEPOWER
⊗	KEY INTERLOCKING OF EQUIPMENT

CONDUIT/CONDUCTOR FILL
 MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING

CONDUCTOR SIZE (AWG)	CONDUIT SIZE (INCHES)		
	1/2	3/4	1
14	6	10	16
12	4	8	13
10	4	6	11
8	1	3	5

UTILITY COMPANIES

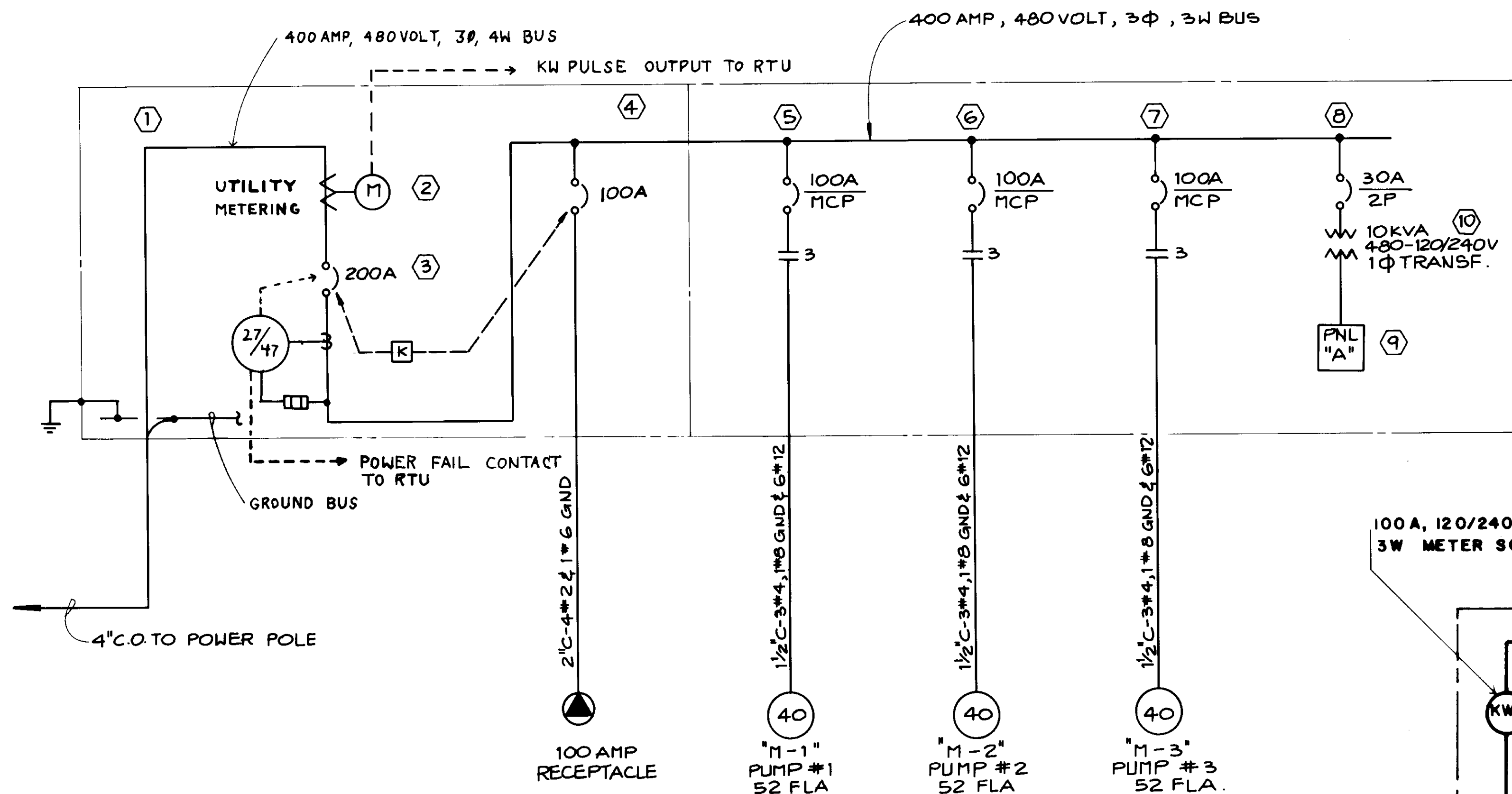
ELECTRIC	TELEPHONE
SOUTHERN CALIFORNIA EDISON 3569 Foothill Drive Thousand Oaks CA 91361 Contact: Mr Bob Ziese (805) 497-3969	PACIFIC TELEPHONE 1445 East Los Angeles Avenue Room 202 Simi Valley CA 93065 Contact: Mr Lee Kuld (805) 883-6655



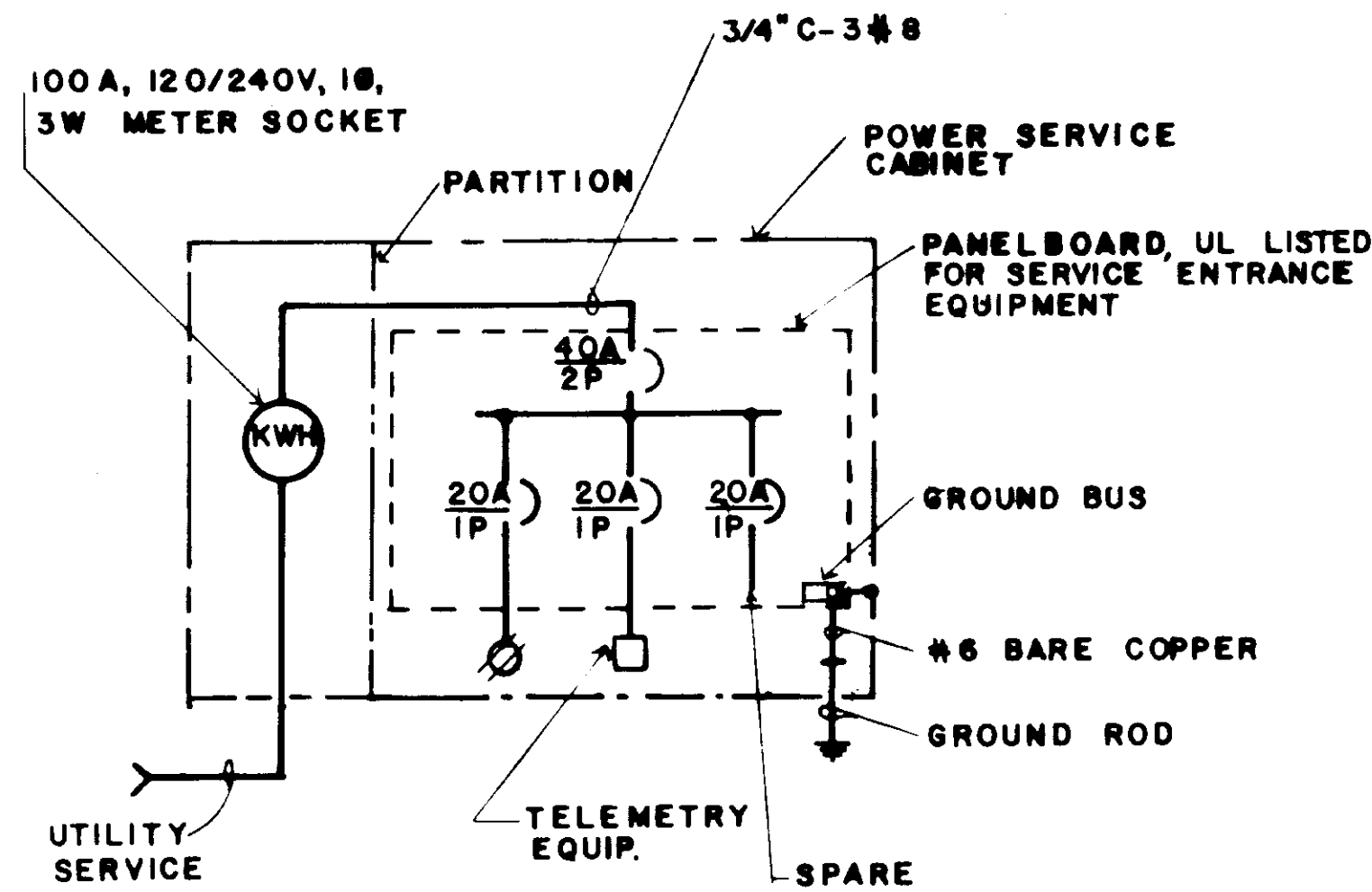
05638 E-1

LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION AND TANK
ELECTRICAL SITE PLAN AND SYMBOLS

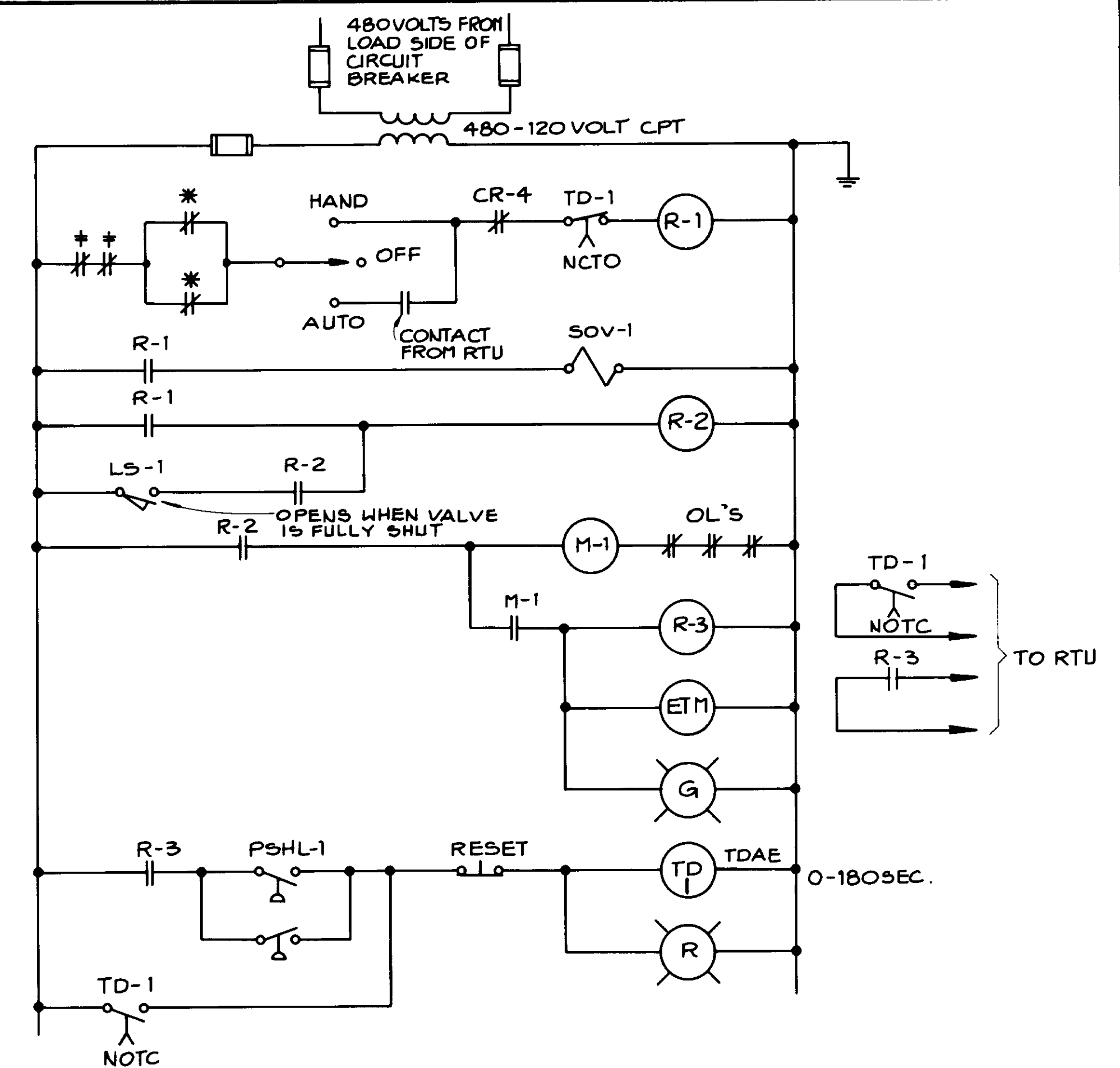
ISSUED FOR CONSTRUCTION
 1-20-86
 13
 07.17.86
 17-02-103-04/86



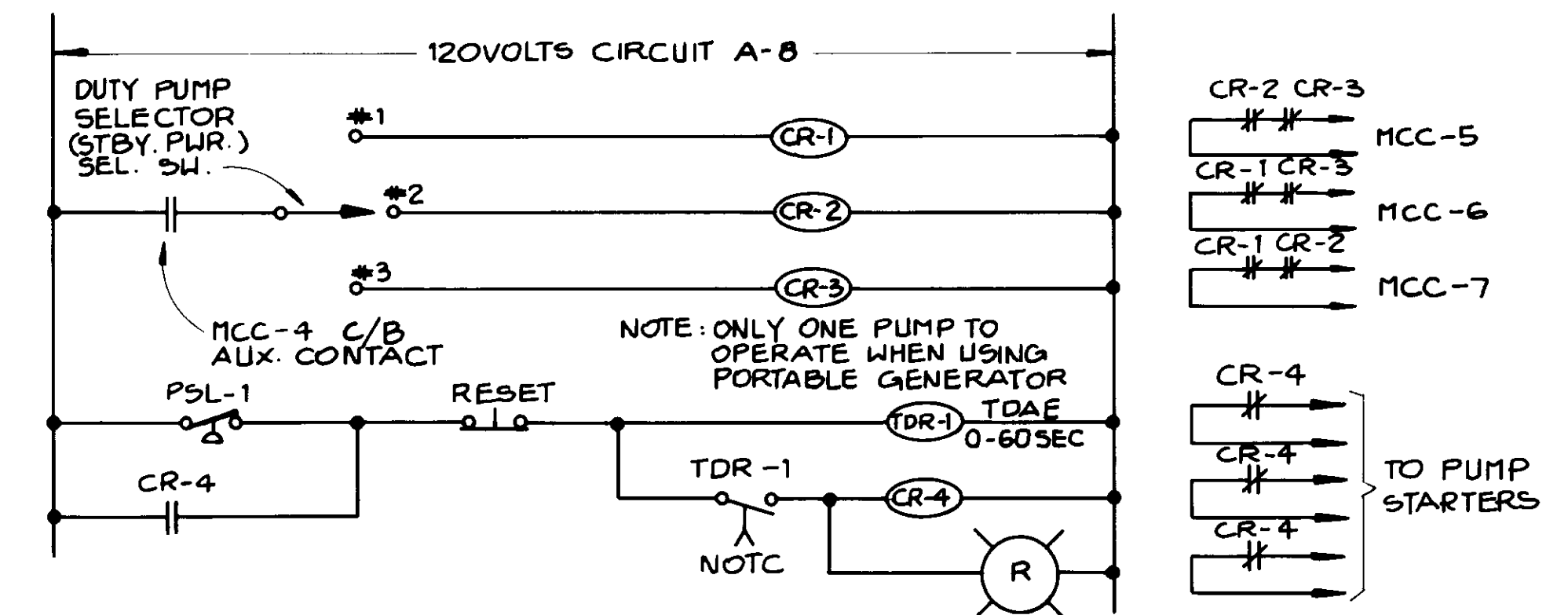
PUMP STATION
SINGLE LINE DIAGRAM ①



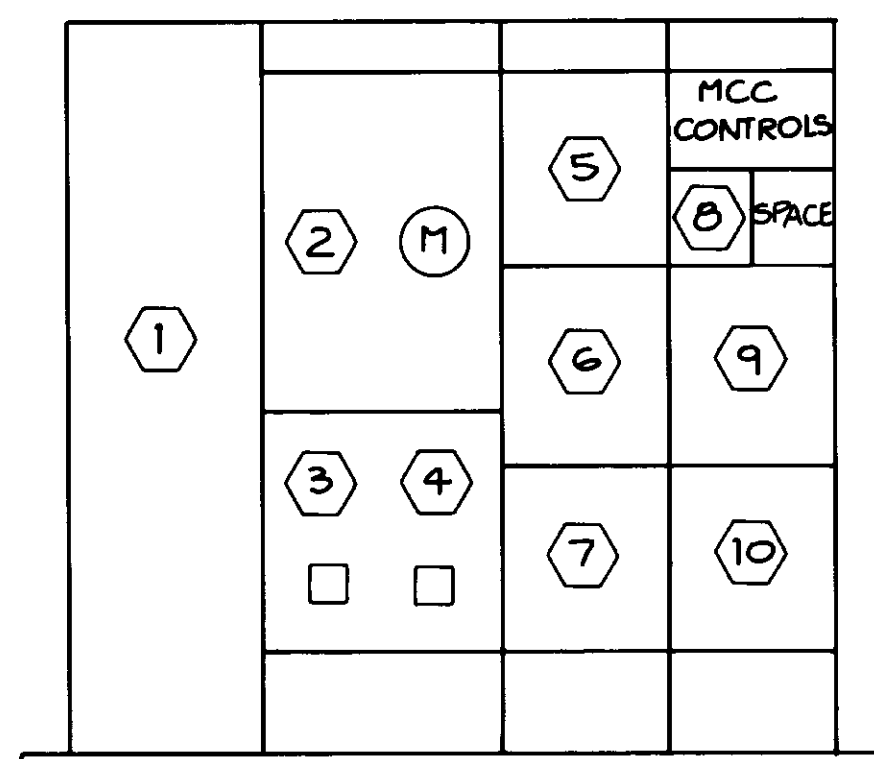
POWER SERVICE CABINET
SINGLE LINE DIAGRAM ⑤



PUMP CONTROL SCHEMATIC DIAGRAM ③
(TYPICAL OF 3)



MCC CONTROLS SCHEMATIC DIAGRAM ④



MAIN SWITCHBOARD &
MCC ELEVATION ②
NOT TO SCALE

NAMEPLATE A		BLDG.		LOC.		MCC		MTG.		FLUSH		MAIN 50A/2P C/B	
BUS: AMPS 100		VOLTS 120/240, 1Φ, 3W		FEEDER		AT							
		WATTAGE		OUTLETS		20A/1P C/B		OUTLETS		WATTAGE			
		A B		LTS. REC. MISC.		10,000A/C U.O.		LTS. REC. MISC.		A B			
INTERIOR LIGHTS	700		7			1		2				RECEPTACLES	
EXTERIOR LIGHTS		400	4			3		4		5	900	SPARE	
RTU	600			1		5	15A	6		7	700	EXHAUST FAN	
SPARE		600				7		8		8	100	CONTROLS	
			1000			9		10		9	1000	SPARE	
						11		12		10			
						13		14		11			
						15		16		12			
						17		18		13			
						19		20		14			
						21		22		15			
						23		24		16			
TOTAL CONNECTED	2300	2000								2600	1200	TOTAL CONNECTED	

8.1 KW + LCL 2 KW = 10.1 KW AT 240 VOLTS 1Φ = 42 AMPS

RECORD DRAWING

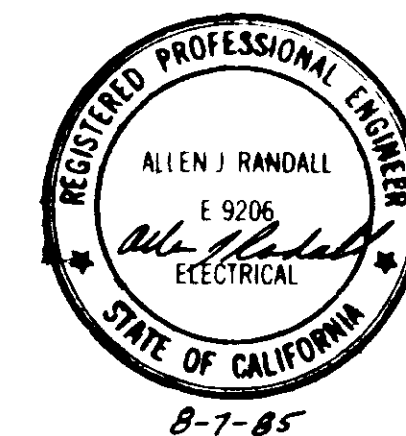
THIS DRAWING IS THE PROPERTY OF THE COMPANY AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.

DATE: 12/8/87

BY: B.E.C.

12/8/87

12/8/87



LAS VIRGENES MUNICIPAL WATER DISTRICT

JED SMITH PUMP STATION AND TANK

SINGLE LINE DIAGRAM AND SCHEMATICS

DESIGN: AJR

DRAWN: G.K.

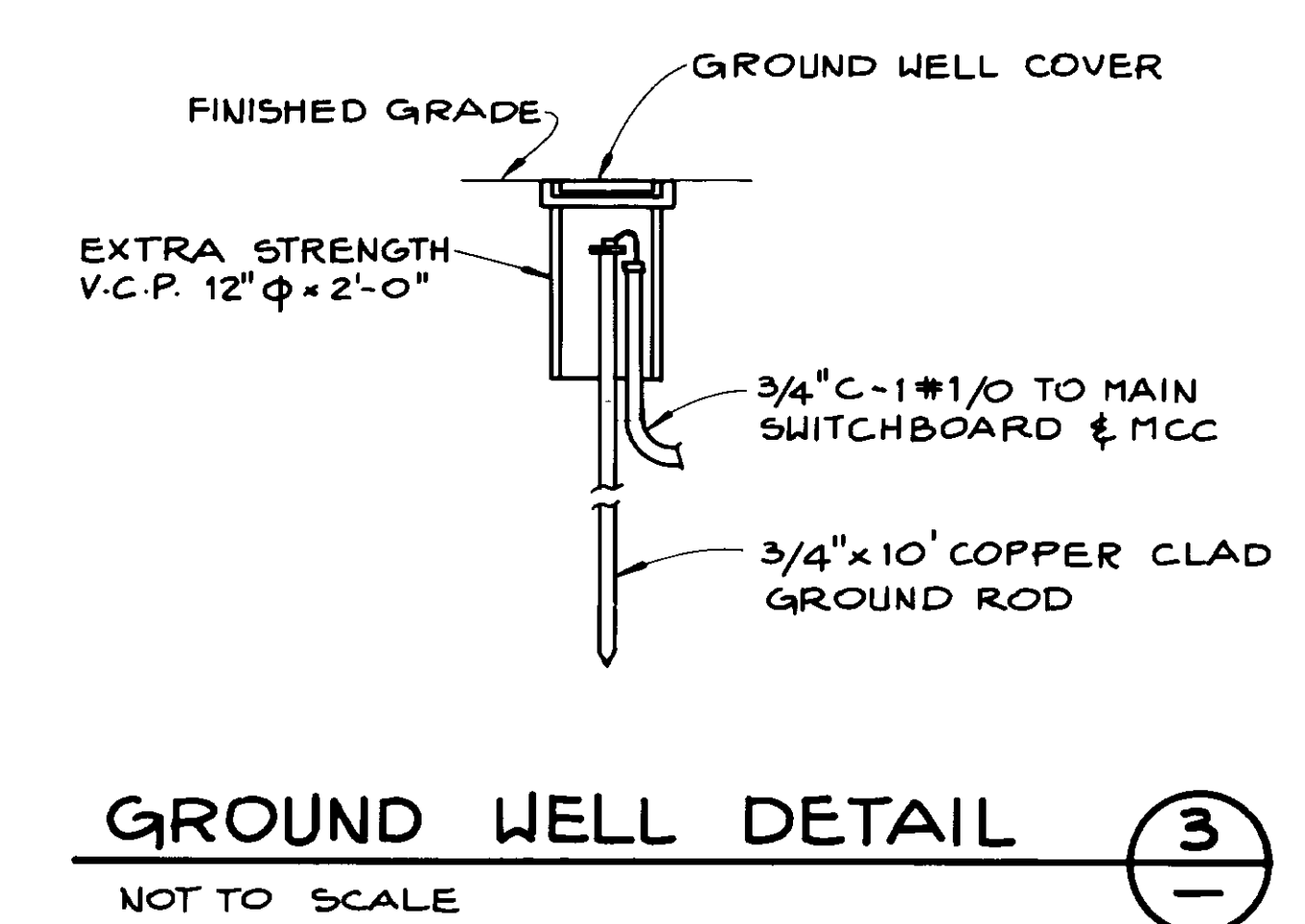
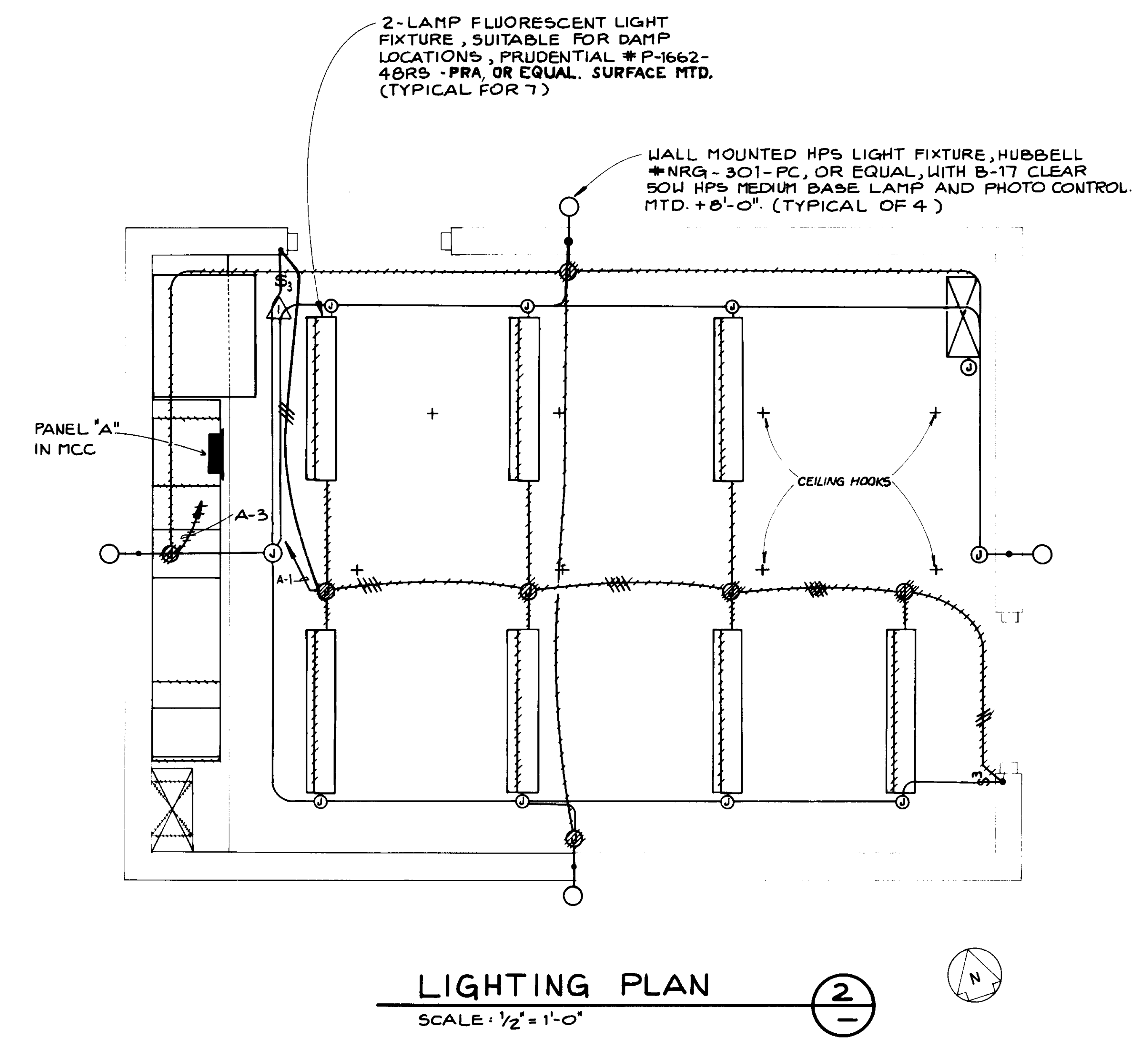
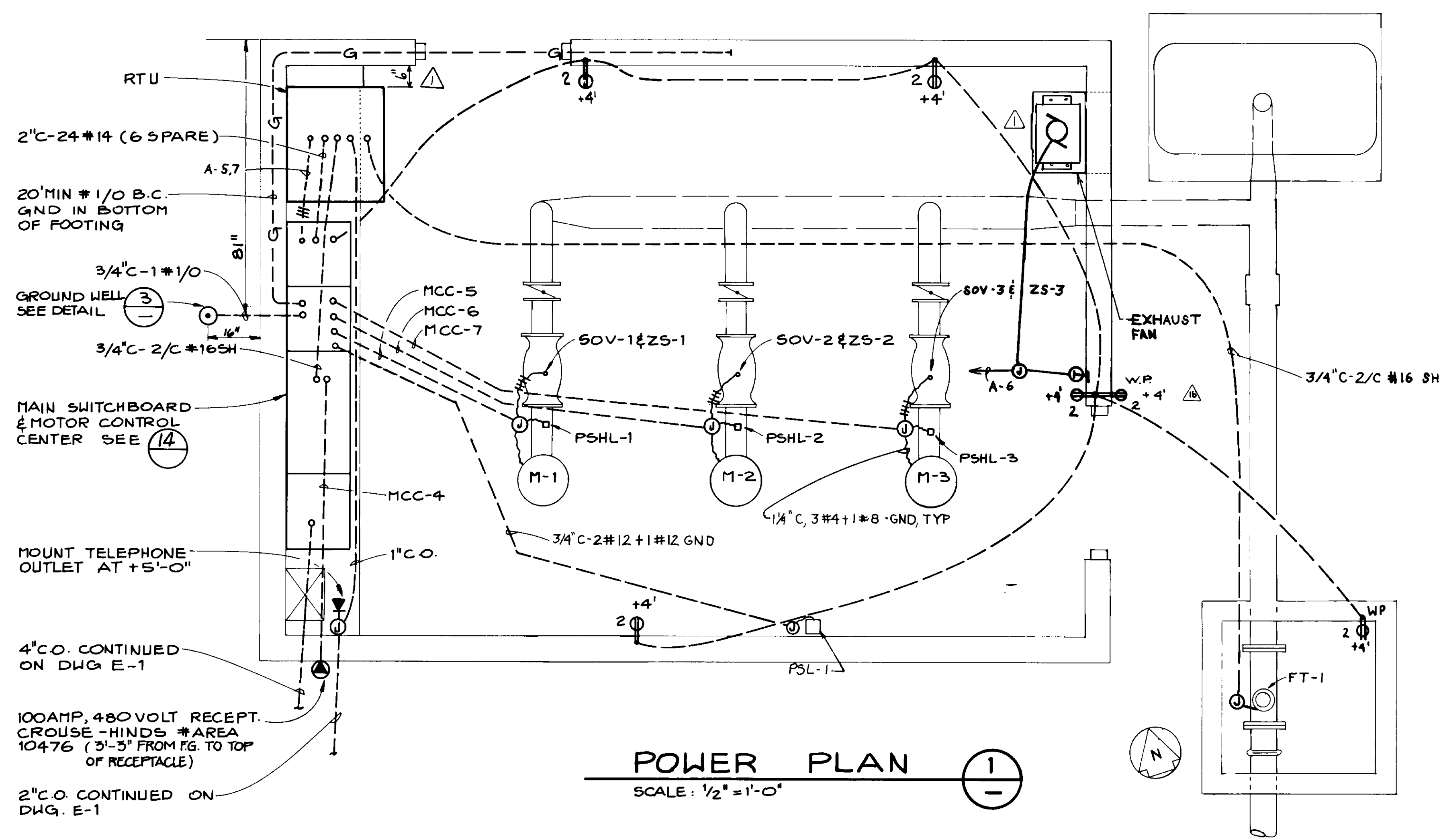
CHECKED: R.J.

DATE: 8-26-85

PROJECT: VT-L02-83-01/02

SHEET NO. 14

OF 17 SHEETS



RECORD DRAWING

MUR
 8/11
 RV
 BEL 12/8/87
 O.E.C. 12/8/87
 ALLEN - B.E.G. 12/8/87



4-21-86	CHANGE ORDER NO. 10: ADD ELECTRICAL OUTLET	FEL	AJR
1-20-86	CHANGE ORDER NO. 1: BLDG. MODIFICATIONS	FEL	G K
1-20-86	ISSUED FOR CONSTRUCTION	FEL	R J

05640 E-3

LAS VIRGENES MUNICIPAL WATER DISTRICT

JED SMITH PUMP STATION AND TANK

ELECTRICAL PLANS

DESIGN: AJR
DRAWN: G K
CHECKED: R J

Boyle Engineering Corporation
consulting engineers / architects
VENTURA, CA

15 OF 17 SHEETS

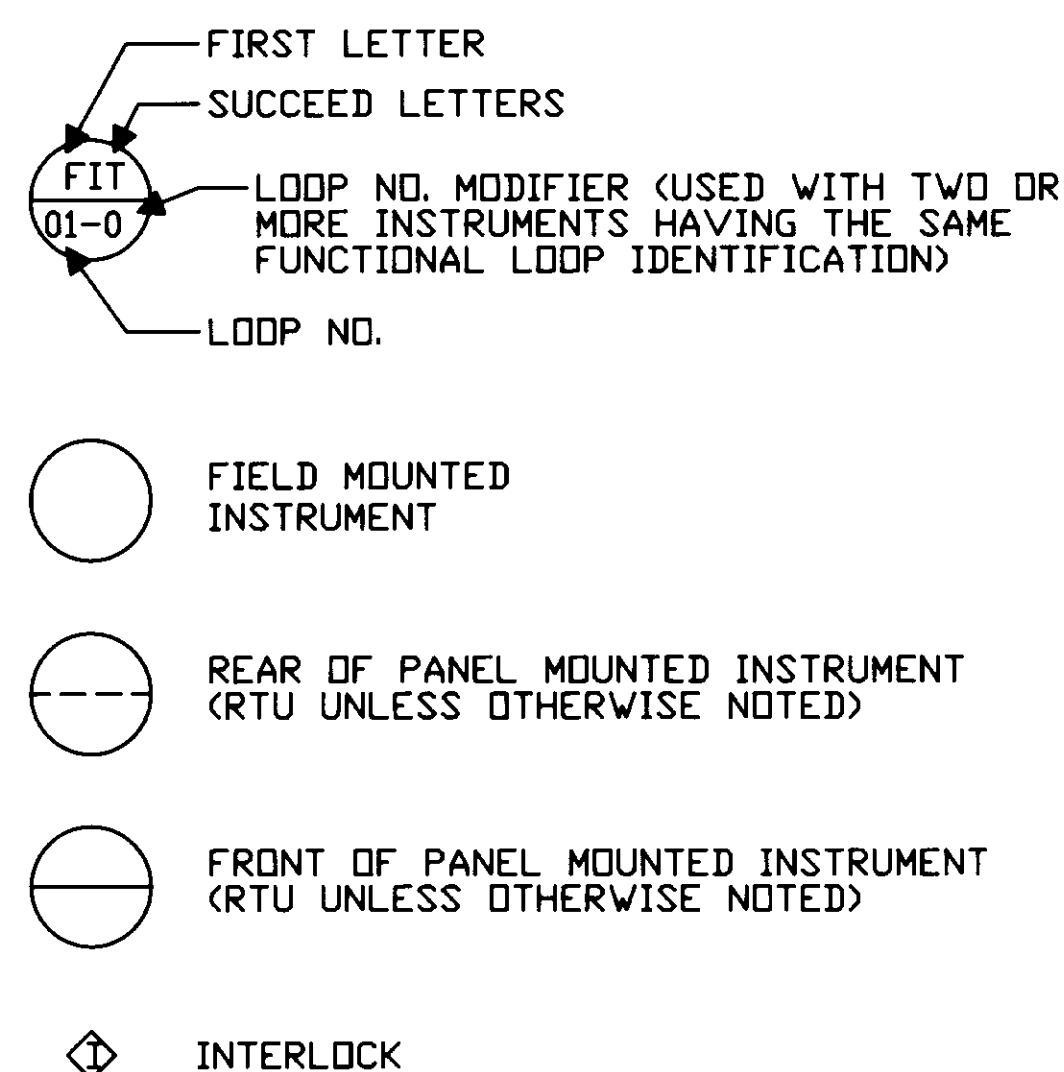
8-20-85 VT-L02-153-01/02

INSTRUMENT SOCIETY OF AMERICA TABLE

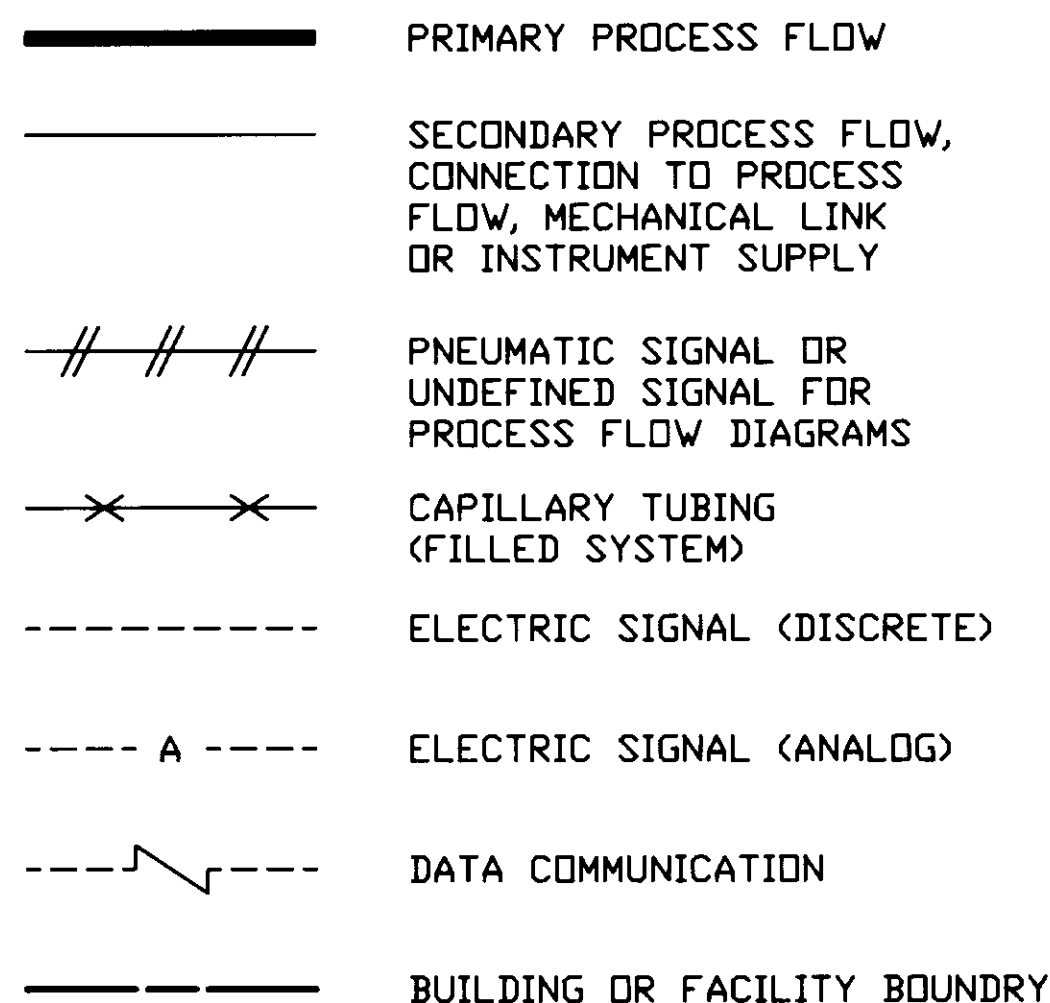
LETTER	FIRST LETTER		SUCCEEDING LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS(*)		ALARM		
B	BURNER FLAME		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	CONDUCTIVITY			CONTROL	
D	DENSITY(MASS)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW RATE	RATIO			
G	GAGING		GLASS	GATE	
H	HAND(MANUAL)				HIGH
I	CURRENT		INDICATE		
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

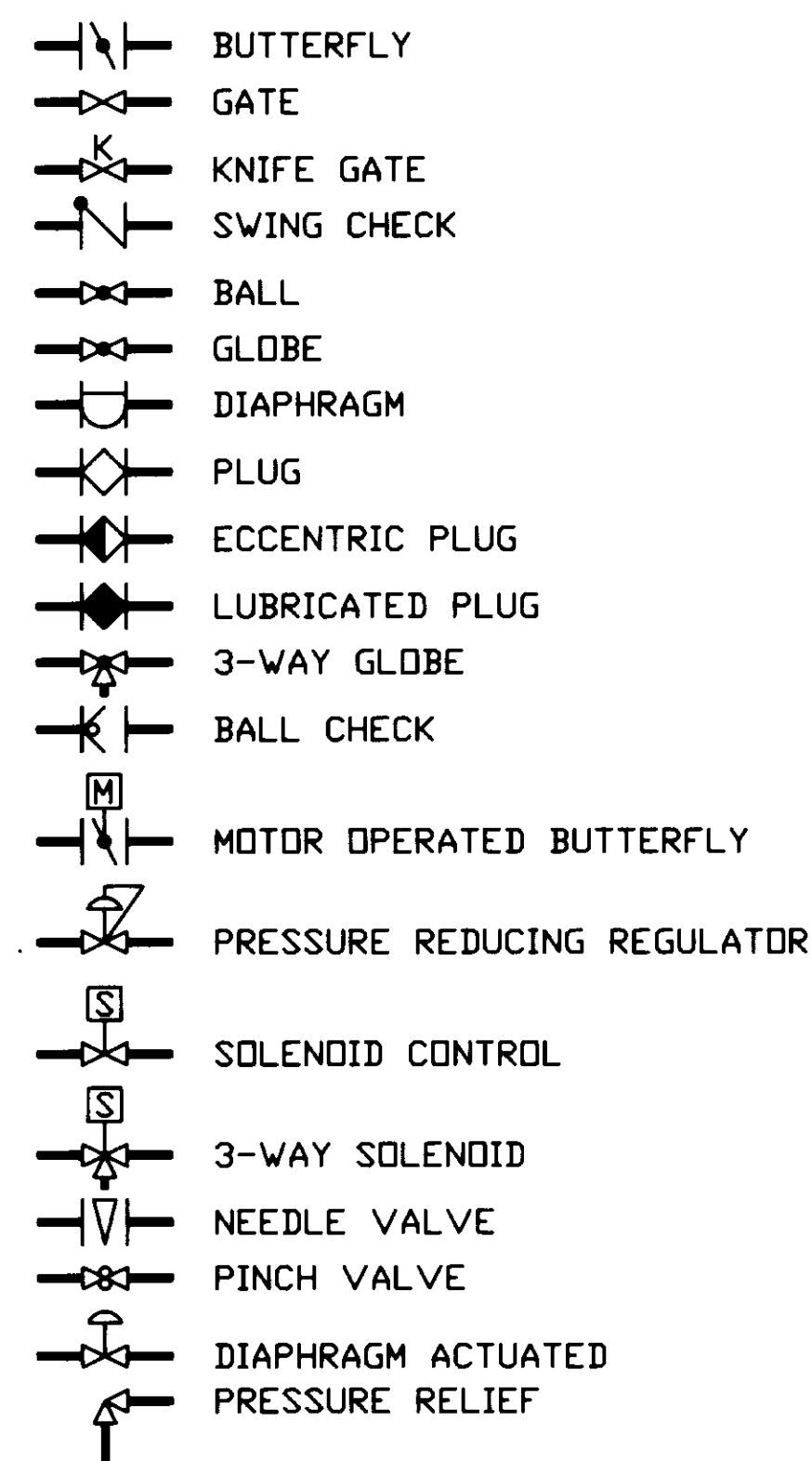
INSTRUMENT IDENTIFICATION



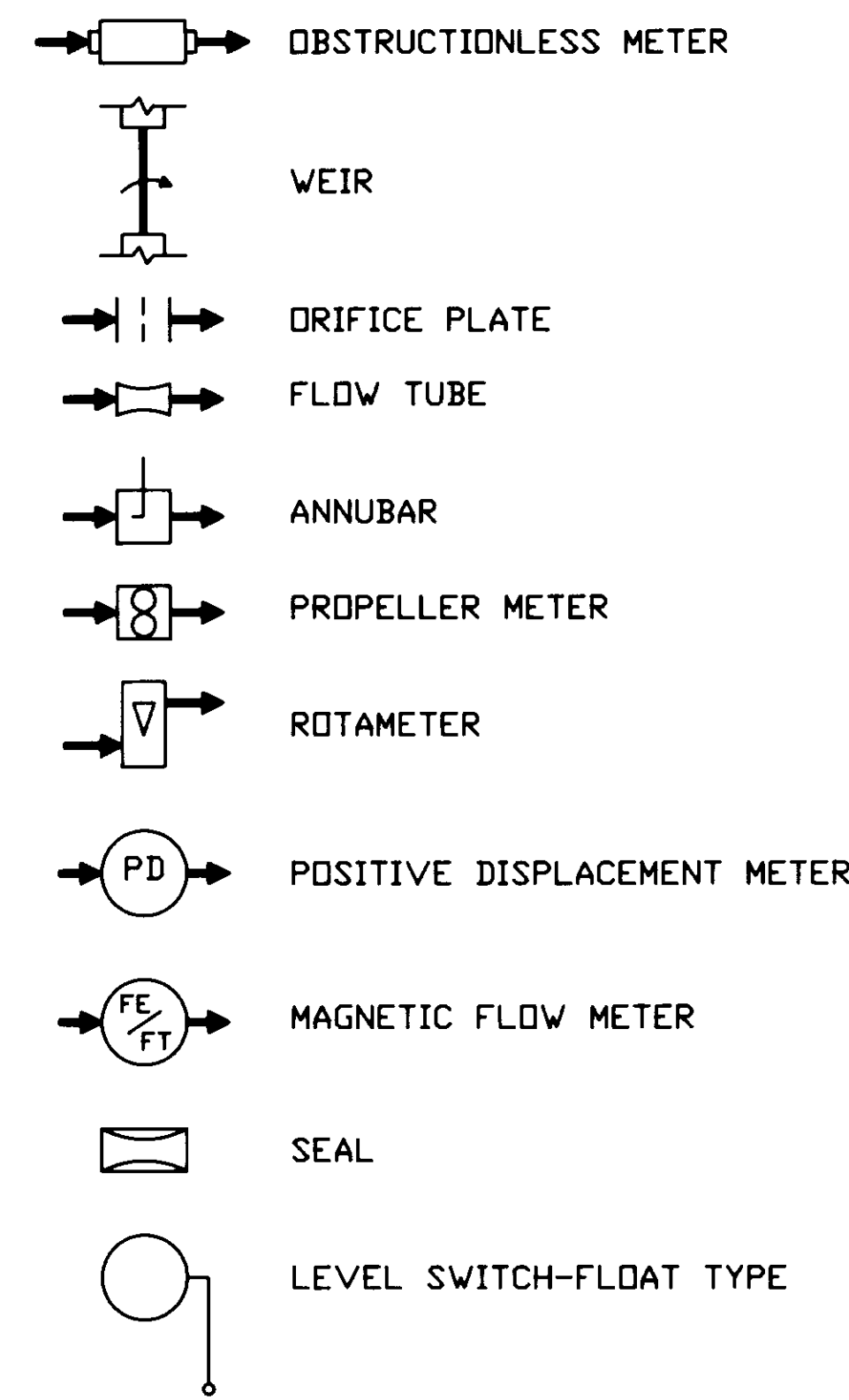
INSTRUMENT LINE SYMBOLS



VALVES & GATES



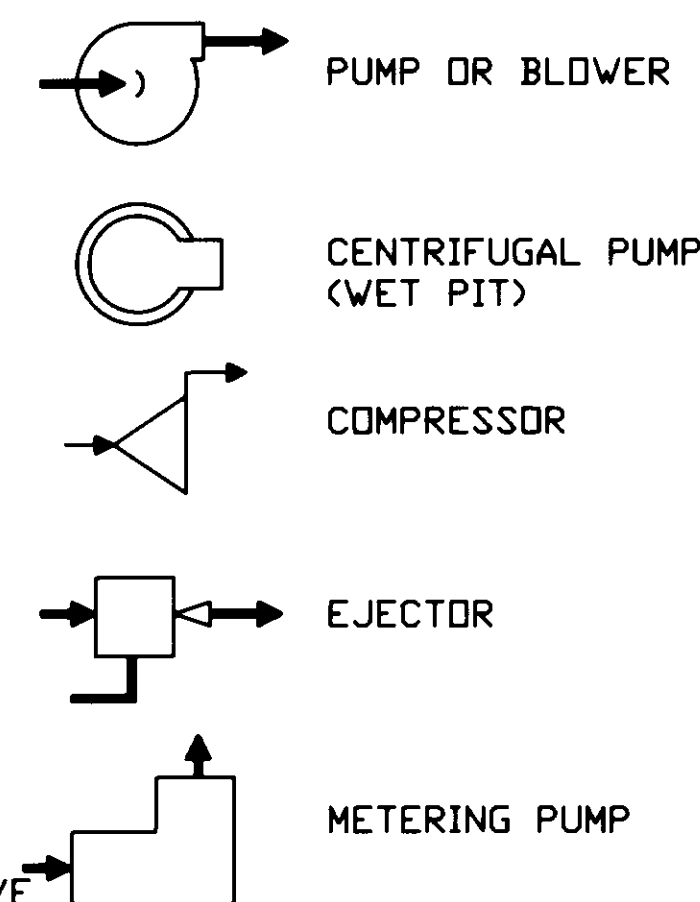
PRIMARY ELEMENTS



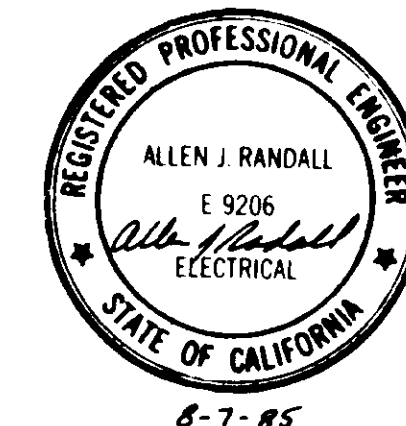
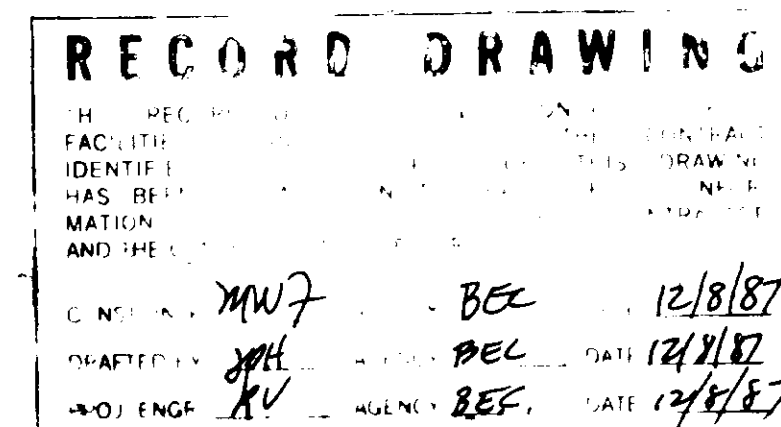
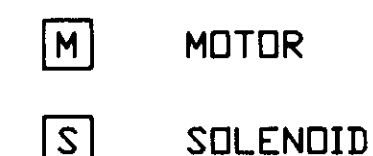
INSTRUMENT ABBREVIATIONS

ALT	ALTERNATOR	MCC	MOTOR CONTROL CENTER
AC	ALTERNATING CURRENT	ME	MISCELLANEOUS EQUIPMENT
AI	ANALOG INPUT	MODEM	MODULATE-DEMODULATE
AO	ANALOG OUTPUT	NAOH	CAUSTIC SODA
AM	AUTO-MANUAL	ODR	ON-OFF-REMOTE
AMR	AUTO-MANUAL-REMOTE	O	OPEN
AVG	AVERAGE	OD	ON-OFF
CL ₂	CHLORINE	ODA	ON-OFF-AUTO
CA	COMMON ALARM	ORO	OFF-RESET-ON
C	CLOSE	OC	OPEN-CLOSE
CCS	CENTRAL CONTROL STATION	OQC	OPEN-STOP-CLOSE
DC	DIRECT CURRENT	OSCR	OPEN-STOP-CLOSE-REMOTE
DI	DISCRETE INPUT	O ₃	OZONE
DO	DISCRETE OUTPUT	OCA	OPEN-CLOSE-AUTO
DN	DOWN	PF	PULSE FREQUENCY
ETM	ELAPSED TIME METER	PD	PULSE DURATION
FCC	FILTER CONTROL CONSOLE	PID	PROPORTIONAL-INTERGAL-DERIVATIVE
FD	CHEMICAL FEEDER	pH	HYDROGEN ION CONCENTRATION
GEN	GENERATOR	PS	DC POWER SUPPLY
HDA	HAND-OFF-AUTO	PC	PROGRAMMABLE CONTROLLER
HLO	HIGH-LOW-OFF	P&ID	PROCESS & INSTRUMENTATION DIAGRAM
HL	HIGH-LOW	RTU	REMOTE TERMINAL UNIT
HLOR	HIGH-LOW-OFF-REMOTE	RIP	REMOTE I/O PANEL
LR	LOCAL-REMOTE	RSP	REMOTE SET POINT
LDS	LOCK-OUT-STOP	SS	START-STOP
LDR	LOCAL-OFF-REMOTE	SP	SET POINT
LPU	LINE PROTECTION UNIT	SO ₂	SULFUR DIOXIDE
LCP	LOCAL CONTROL PANEL	TSP	TWISTED SHIELDED PAIR
		TURB	TURBIDITY
		TPC	TIME PROPORTIONAL CONTROL
		VSD	VARIABLE SPEED DRIVE

PUMPS & COMPRESSORS



ACTUATORS OR OPERATORS



05641 E-4

LAS VIRGENES MUNICIPAL WATER DISTRICT

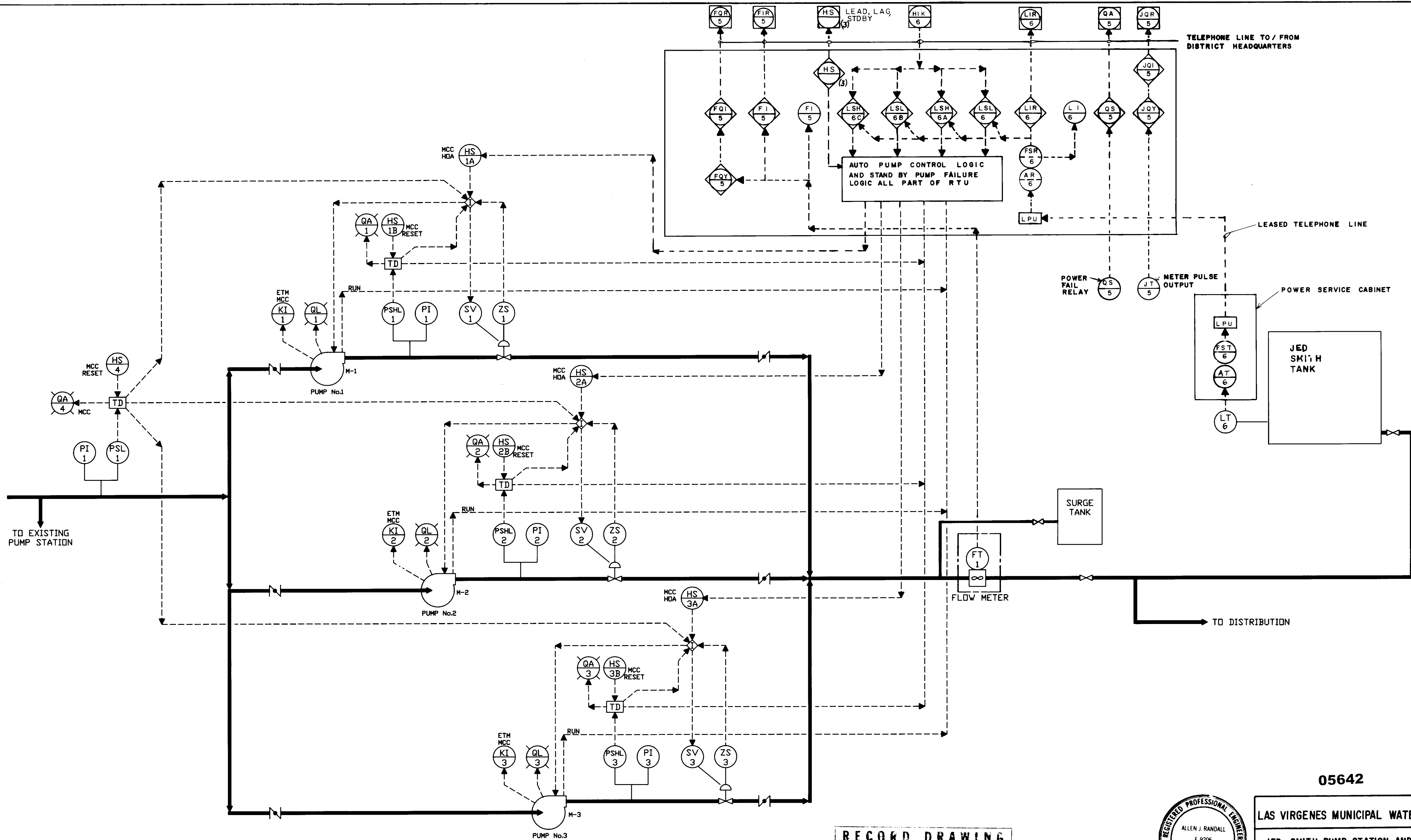
JED SMITH PUMP STATION AND TANK

INSTRUMENTATION LEGEND AND SYMBOLS

REV	DATE	DESCRIPTION	APP
1	1-20-86	ISSUED FOR CONSTRUCTION	

DESIGN	AJR	DATE	12/8/87
DRAWN	SH	CHECKED	MJ
CHECKED	MJ	DATE	12/8/87

Boyle Engineering Corporation	16
CONSULTING ENGINEERS / ARCHITECTS VENTURA, CA	OF 17 SHEETS
8-26-85	VT-02-153-01/02

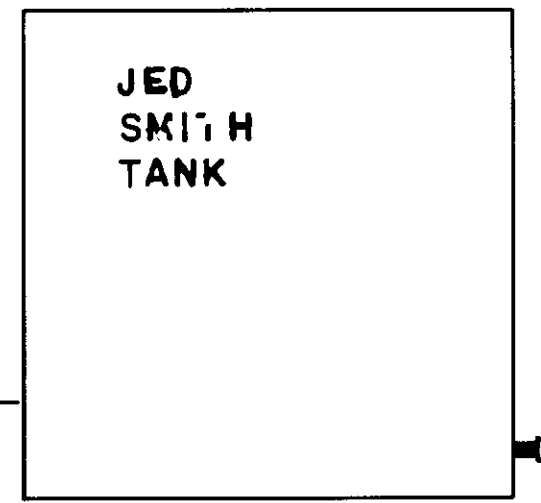


TELEPHONE LINE TO / FROM DISTRICT HEADQUARTERS

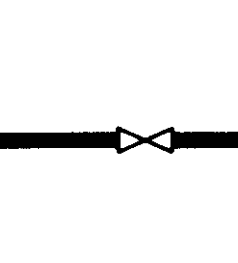
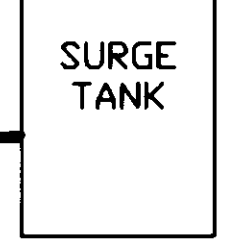
LEASED TELEPHONE LINE

POWER FAIL RELAY (QS 5) METER PULSE OUTPUT (JT 5)

POWER SERVICE CABINET



JED SMITH TANK



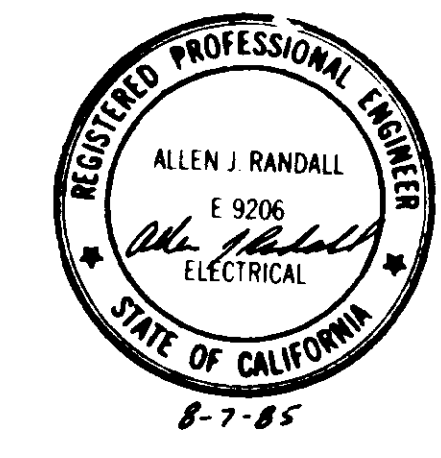
TO DISTRIBUTION

TO EXISTING PUMP STATION

05642 E-5

LAS VIRGENES MUNICIPAL WATER DISTRICT
 JED SMITH PUMP STATION AND TANK
 PROCESS & INSTRUMENTATION DIAGRAM

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 THE INFORMATION FURNISHED BY THE CONTRACTOR AND THE CONSTRUCTION INSPECTOR.
 CONST. INSP. *[Signature]* AGENCY *BEC* DATE *12/8/87*
 DRAFTED BY *[Signature]* AGENCY *BEC* DATE *12/8/87*
 PROJ. MGR. *[Signature]* AGENCY *BEC* DATE *12/8/87*



DESIGN	AJR	DATE	12/8/87
DRAWN	SH	DATE	12/8/87
CHECKED	MJ	DATE	12/8/87
APP			

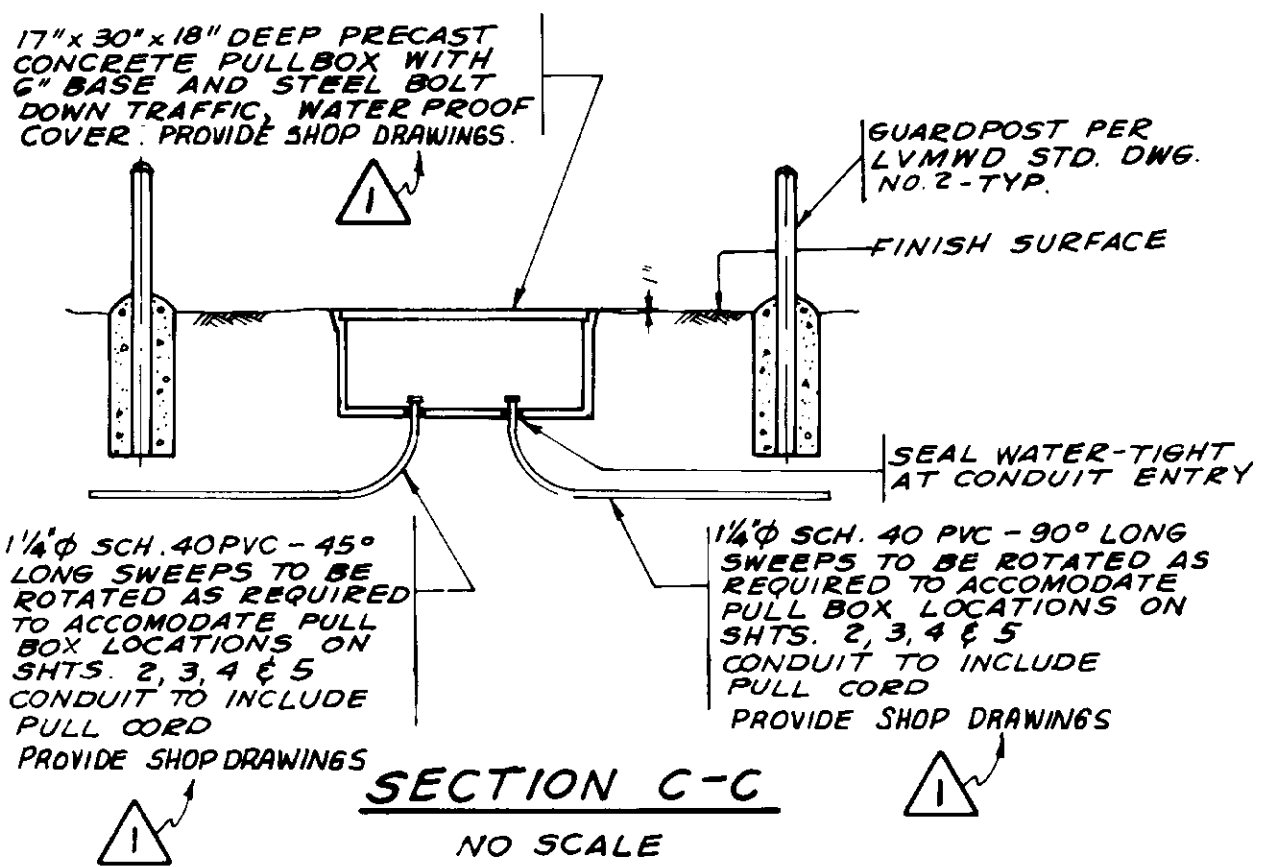
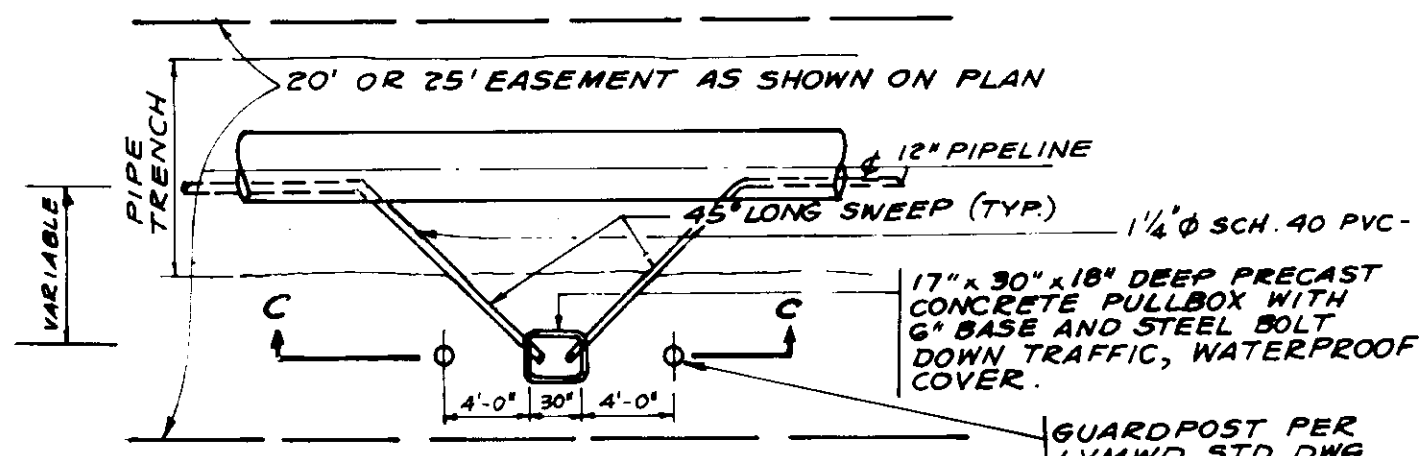
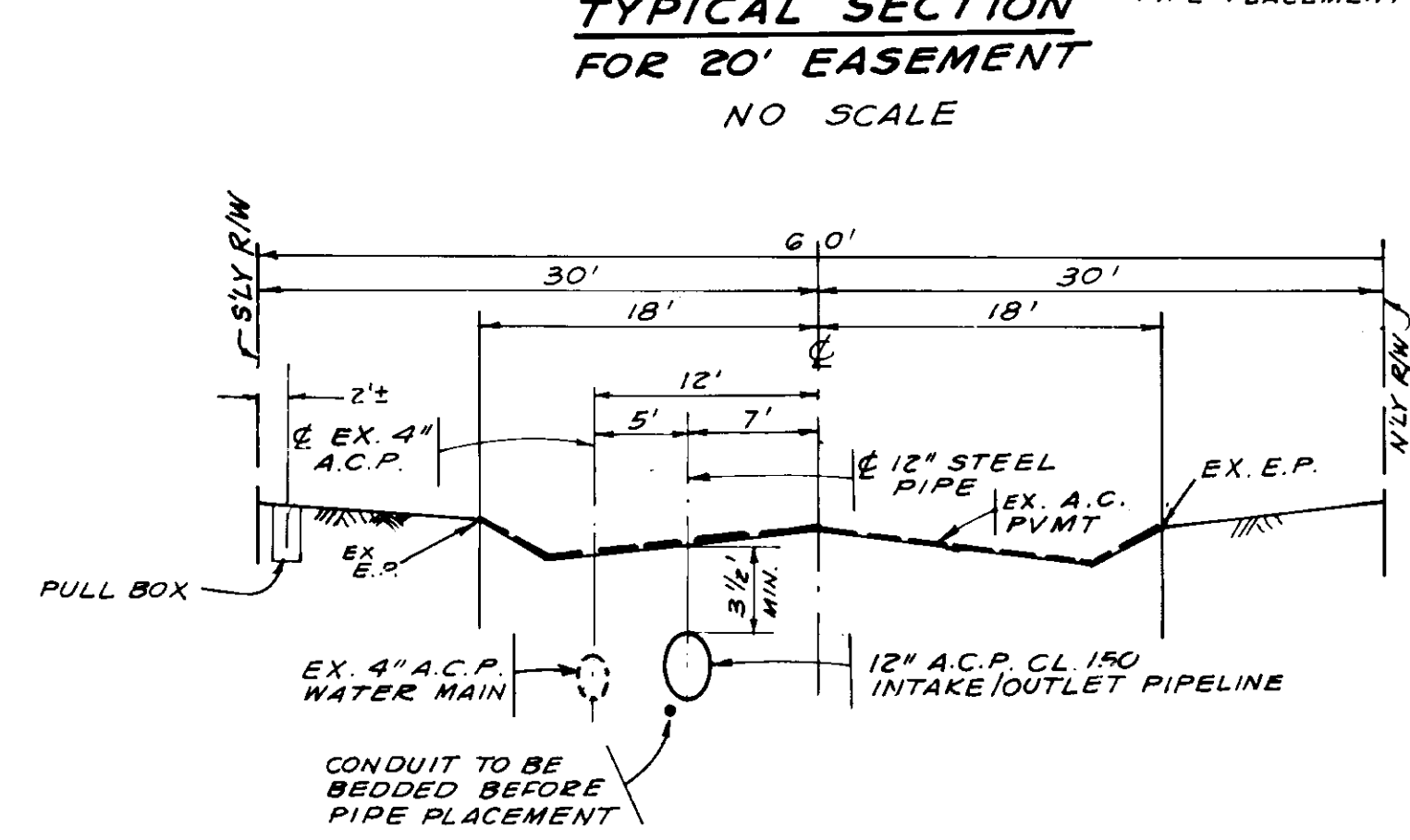
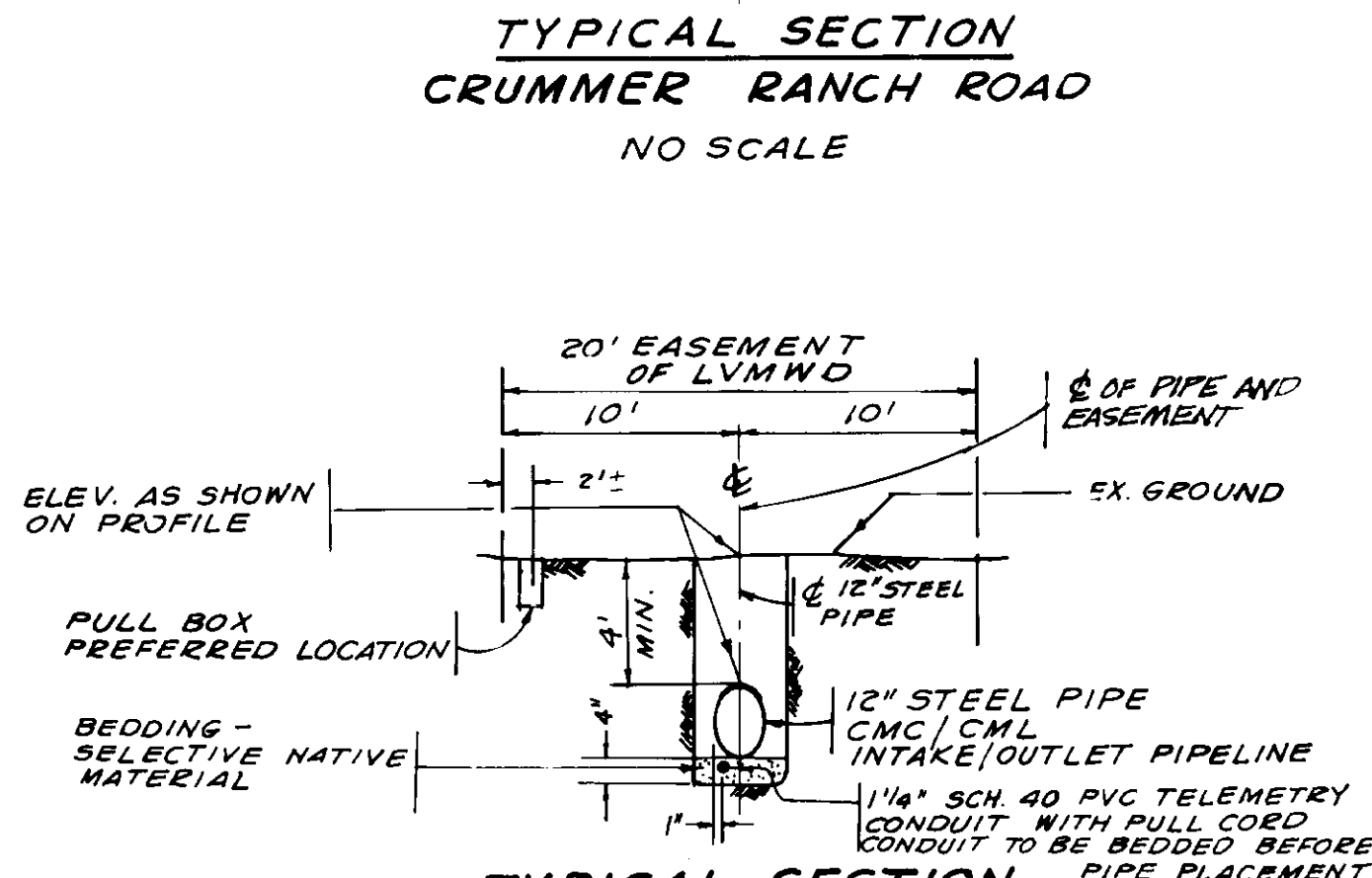
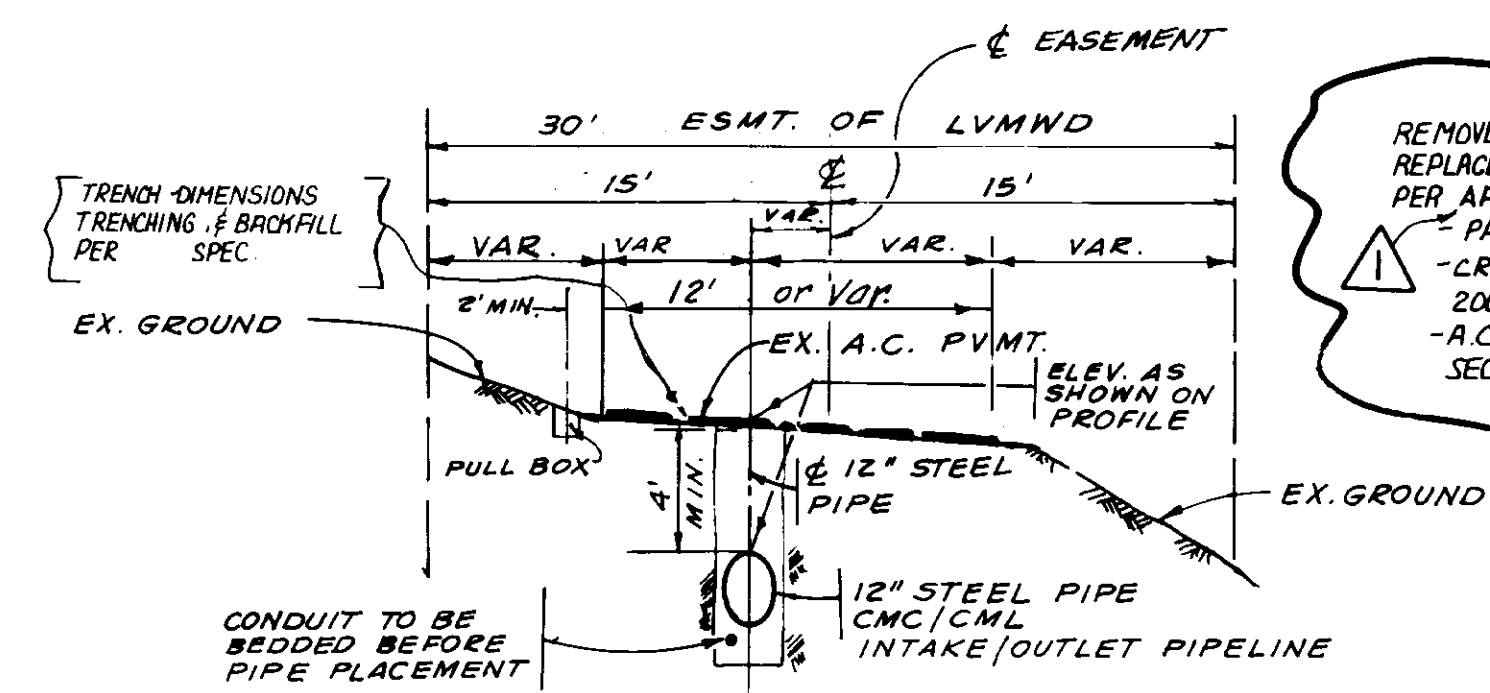
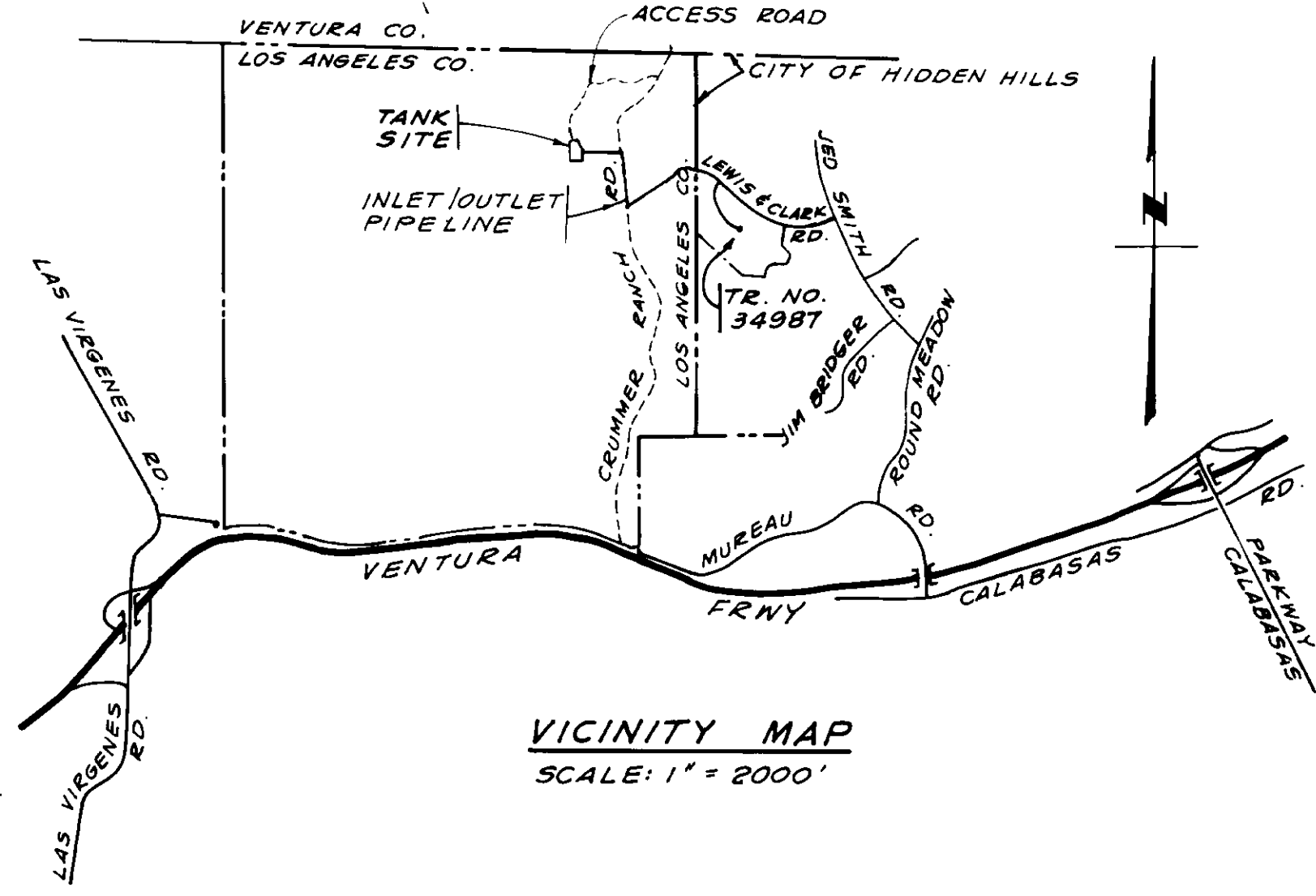
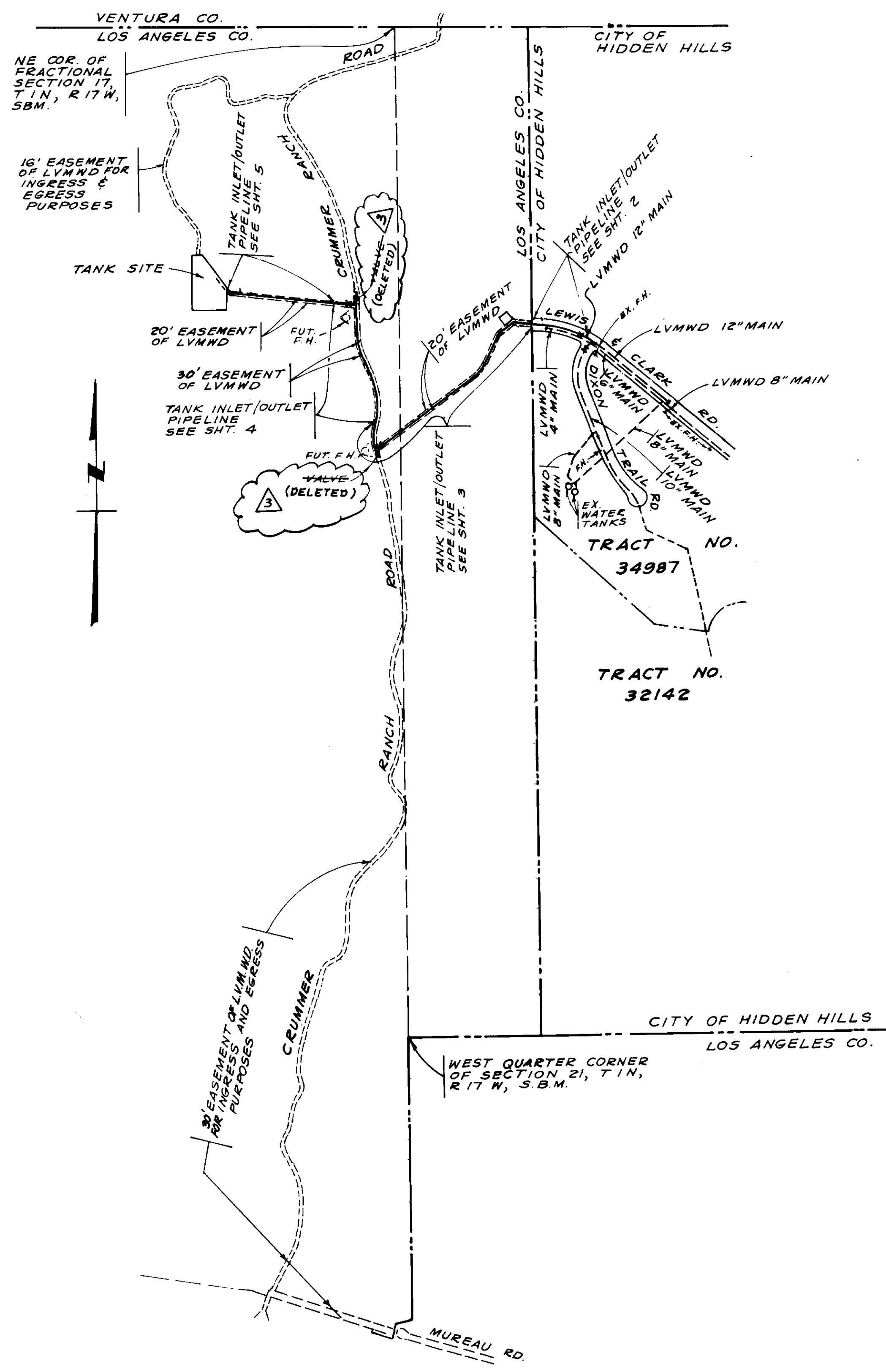
1-20-86 ISSUED FOR CONSTRUCTION

Boyle Engineering Corporation
 CONSULTING ENGINEERS / ARCHITECTS
 VENTURA, CA

DATE: 8-26-85
 VT-102-133-0/02

GENERAL NOTES

- ALL MATERIALS USED AND ALL WORK TO BE PERFORMED SHALL BE IN ACCORDANCE WITH THE COUNTY OF LOS ANGELES CODE, DIVISION 1, TITLE 20.
- ALL WORK AND MATERIAL SHALL BE APPROVED BY L.V.M.W.D., AND BE IN ACCORDANCE WITH L.V.M.W.D. SPECIFICATION NO. VT-LD2-153-09; STANDARD SPECIFICATIONS; STANDARD DRAWINGS; AND WATER ORDINANCE. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SET OF THESE SPECIFICATIONS ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING WITH LVMWD CONSTRUCTION SUPERVISOR (818) 880-4110, AND SHALL NOTIFY THE ARCHITECT/ENGINEER SECTION (213) 758-2168 AT LEAST 48 HRS BEFORE STARTING ANY WORK ON THIS PROJECT. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR EACH DAYS INSPECTION AT LEAST 24 HOURS IN ADVANCE.
- THE CONTRACTOR SHALL VERIFY AND PROTECT IN PLACE ALL EXISTING UNDERGROUND STRUCTURES.
- PIPE TO BE STEEL, CEMENT/MORTAR COATING / CEMENT MORTAR LINED OR ASBESTOS CEMENT AS NOTED ON PLANS. PIPE CLASS 150 TO MEET LATEST L.V.M.W.D. STANDARDS AND SPECIFICATIONS. THE CONTRACTOR TO OBTAIN APPROVAL OF PIPE JOINTS HE PROPOSES TO USE.
- PIPE ELEVATIONS SHOWN ARE TOP OF PIPE.
- FOR WATER SERVICE DURING CONSTRUCTION CONTACT CUSTOMER SERVICE REPRESENTATIVE AT (818) 880-4110 REGARDING APPLICATION FOR SERVICE AND WATER COSTS.
- ~~MASTER METER TO BE REMOVED UPON ACCEPTANCE OF SYSTEM BY LVMWD. SEE STD. DWG. N-23-B.~~
- TRAFFIC ON CRUMMER RANCH ROAD MUST REMAIN OPEN AT ALL TIMES, OR CONTRACTOR TO COORDINATE CLOSURE WITH ROAD USERS & LVMWD APPROVAL.
- ELBOWS TO BE SHOP FABRICATED ANGLES PER STD. SPECIFICATIONS (WELDED PER AWWA C-208).
- THRUST BLOCKS PER STD. DWG. 13 SHALL BE INSTALLED AT ALL APPROPRIATE PLACES.
- PRIOR TO WATERLINE CONSTRUCTION CONTRACTOR IS REQUIRED TO SUBMIT GRADE SHEETS TO LVMWD CONSTRUCTION SUPERVISOR. SHEETS TO SHOW STATIONING, HUB ELEVATION, FINISH SURFACE ELEVATION, CUT OR FILL TO FINISH SURFACE, TOP OF PIPE ELEVATION AND FINISH SURFACE ELEVATIONS OF SURFACE FACILITIES.
- DEFLECTION TO BE MADE IN THIS SECTION OF PIPE, IF REQUIRED, TO INSURE LOCATING BLOW-OFF IN CENTERLINE OF STREAM BED.
- ALL P.V.C. OR P.C. PIPE TO BE SUPPLIED BY THE CONTRACTOR. P.V.C. PIPE SHALL CONFORM TO AWWA C-900 CAST IRON O.D. BASE JOINTS SHALL BE "GRIP-TITE" OR APPROVED EQUAL.



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 THE INFORMATION FURNISHED BY THE CONTRACTOR AND THE CONSTRUCTION INSPECTOR.

CONSTR. INSP. _____ DATE: 7-21-87
 DRAFTER BY: JPH DATE: 7-21-87
 PROJ. ENGR. AV DATE: 7-21-87

LEGEND:

- PROPOSED WATER LINE
- - - EXISTING WATER LINE
- GATEVALVE PER STD. DWG. NO. 33
- Δ T.B. THRUST BLOCK PER STD. DWG. NO. 13
- AIR & VACUUM VALVE
- - - EX. SEWER LINE
- - - EX. S.D. LINE

NOTE:

TOPOGRAPHY SHOWN ON THESE PLANS WAS PREPARED BY FUGRO GEOMETRICS, INC. DEC. 1979 UNDER JOB NO. G 79862. BASED ON PHOTOGRAPHY DATED 10-31-79

05656

LAS VIRGENES MUNICIPAL WATER DISTRICT

JED SMITH TANK / LEWIS & CLARK SYSTEM INTERTIE

BENCH MARK

BY 9044 A

RDBM TAG IN N WALL CONC. DRAIN @ ANGLE POINT 6 FT E/O W END 25 FT N C/L MUREAU RD & 0.1 MI WLY DRWY HSE NO 25115

ELEVATION = 980.533 MALIBU (1972)

PREPARED BY: CARL CHAPMAN & ASSOC. 2346 COTNER AVENUE LOS ANGELES, CA. 90064 (213) 477-5099

APPROVED FOR LAS VIRGENES MUNICIPAL WATER DISTRICT

BY: *[Signature]* H.W. STOKES CHIEF ENGR. DATE: 12-12-86 R.C.E. 9559

SCALE: _____ DATE: 2/21/85 TRACT NO: _____ DWG NO: _____ SHEET 1 OF 5

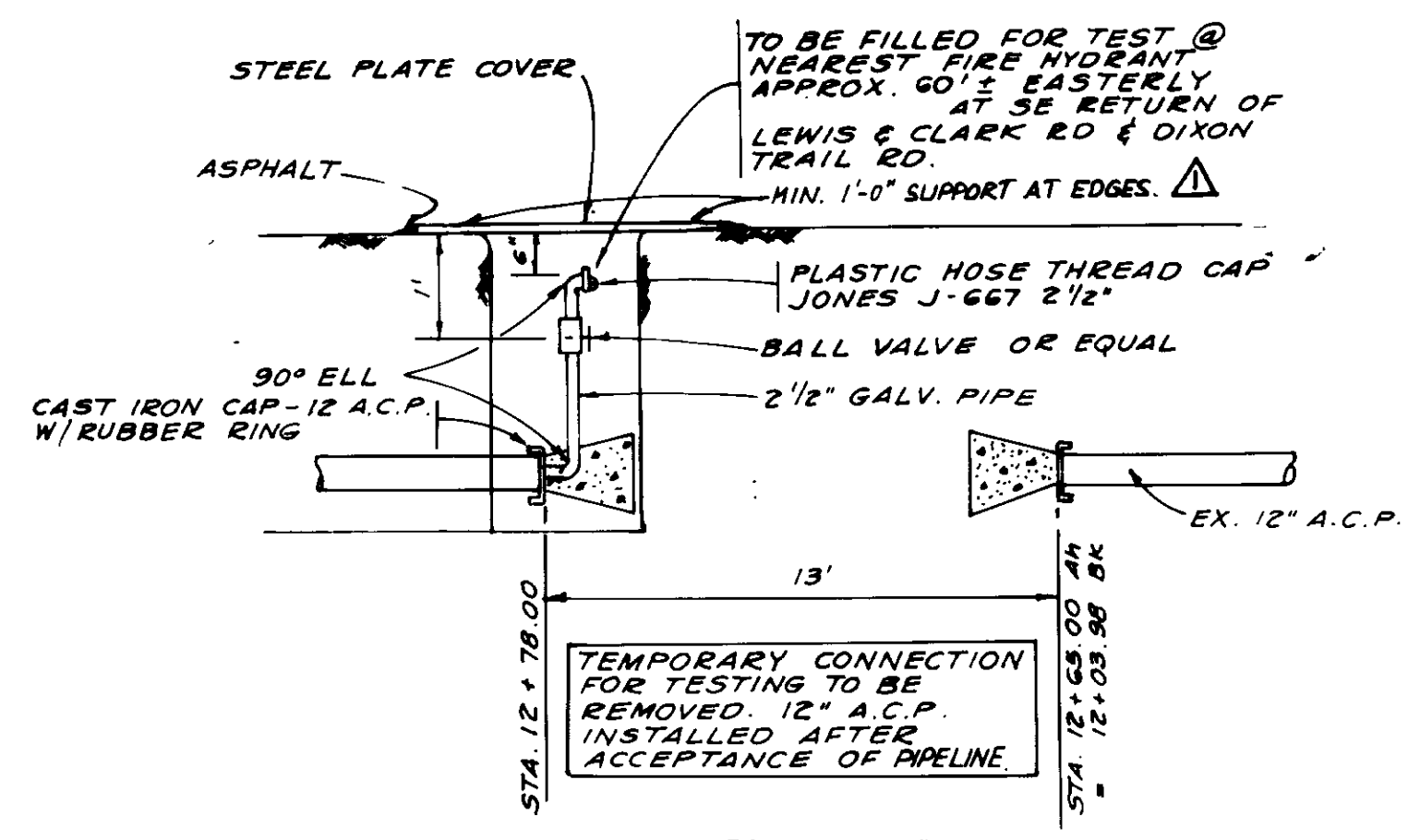
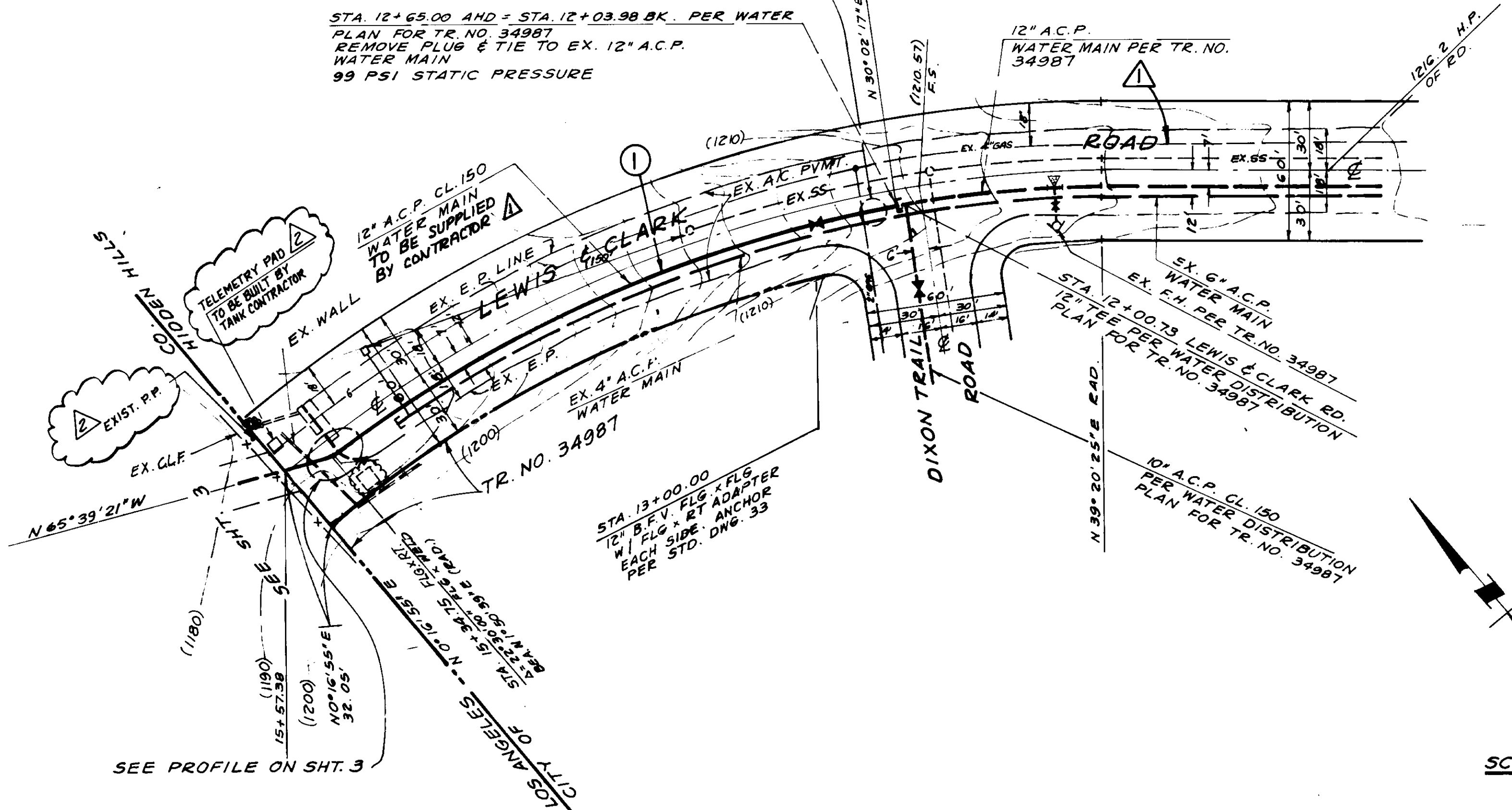
REV. NO.	DESCRIPTION OF REVISION	APPRVD.	DATE
1	REV. DURING CONST. BY DISTRICT REQUEST		
2	Issued for construction by LVMWD.	JLW	12-12-86

105 NO 85-003

CURVE DATA				
P.C.	DELTA	R	L	T
1	28° 11' 38"	548.10'	269.75	137.66

NO CONNECTION UNTIL NEW WATER SYSTEM HAS BEEN TESTED, DISINFECTED, & APPROVED. SEE DETAIL 'A' FOR TEMP. CONNECTION

STA. 12+65.00 AND - STA. 12+03.98 BK. PER WATER PLAN FOR TR. NO. 34987 REMOVE PLUG & TIE TO EX. 12" A.C.P. WATER MAIN 99 PSI STATIC PRESSURE



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 THE INFORMATION FURNISHED BY THE CONTRACTOR AND THE CONSTRUCTION INSPECTOR.
 CONST. INSP. _____ AGENCY LVMWD DATE 7-21-87
 DRAFTED BY ARS AGENCY B.E.C. DATE 7-21-87
 PROJ. ENGR. RV AGENCY B.E.C. DATE 7-21-87

05657

LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH TANK / LEWIS & CLARK SYSTEM INTERTIE

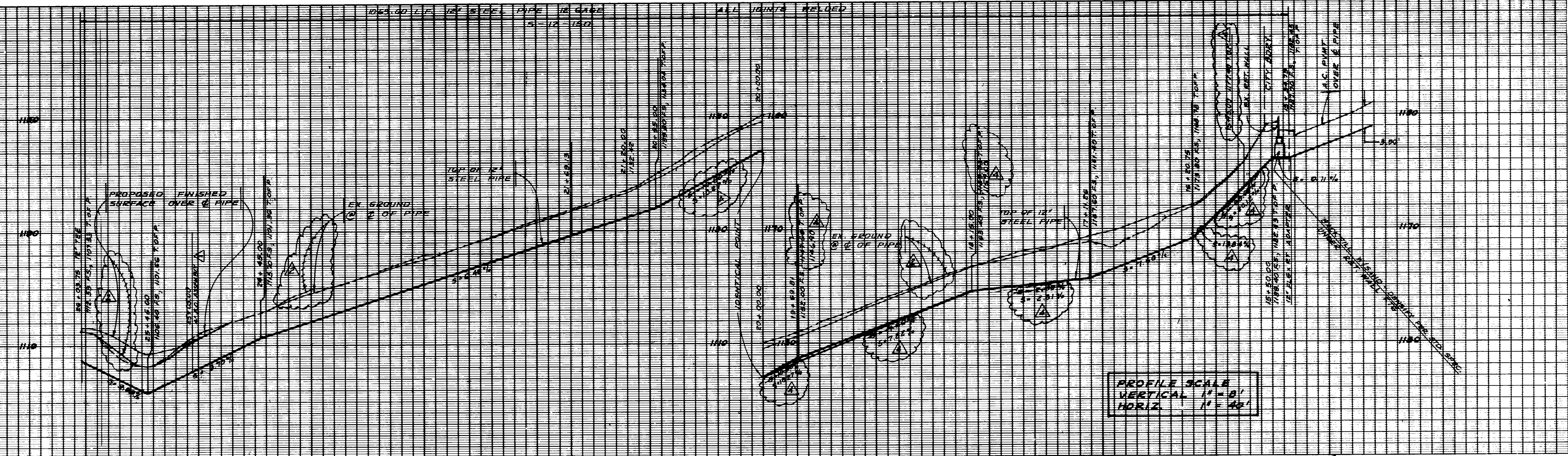
PREPARED BY: CARL CHAPMAN & ASSOC. 2346 COTNER AVENUE LOS ANGELES, CA. 90064 (213) 777-5085
 APPROVED FOR LAS VIRGENES MUNICIPAL WATER DISTRICT BY: H.W. STOKES, CHIEF ENG'R DATE 12-22-86 R.C.E. 25777
 CARL CHAPMAN

PLAN CLARIFICATION BY BOYLE ENGINEERING			
ISSUED FOR CONSTRUCTION BY L.V.M.W.D.	APPR'D	DATE	
REV. NO.	DESCRIPTION	APPR'D	DATE

SCALE: 1" = 40'	DATE: 2/21/85	TRACT NO:	DWG. NO.
			SHEET 2 OF 5

SCALE: 1" = 40'

JOB NO. 85-003

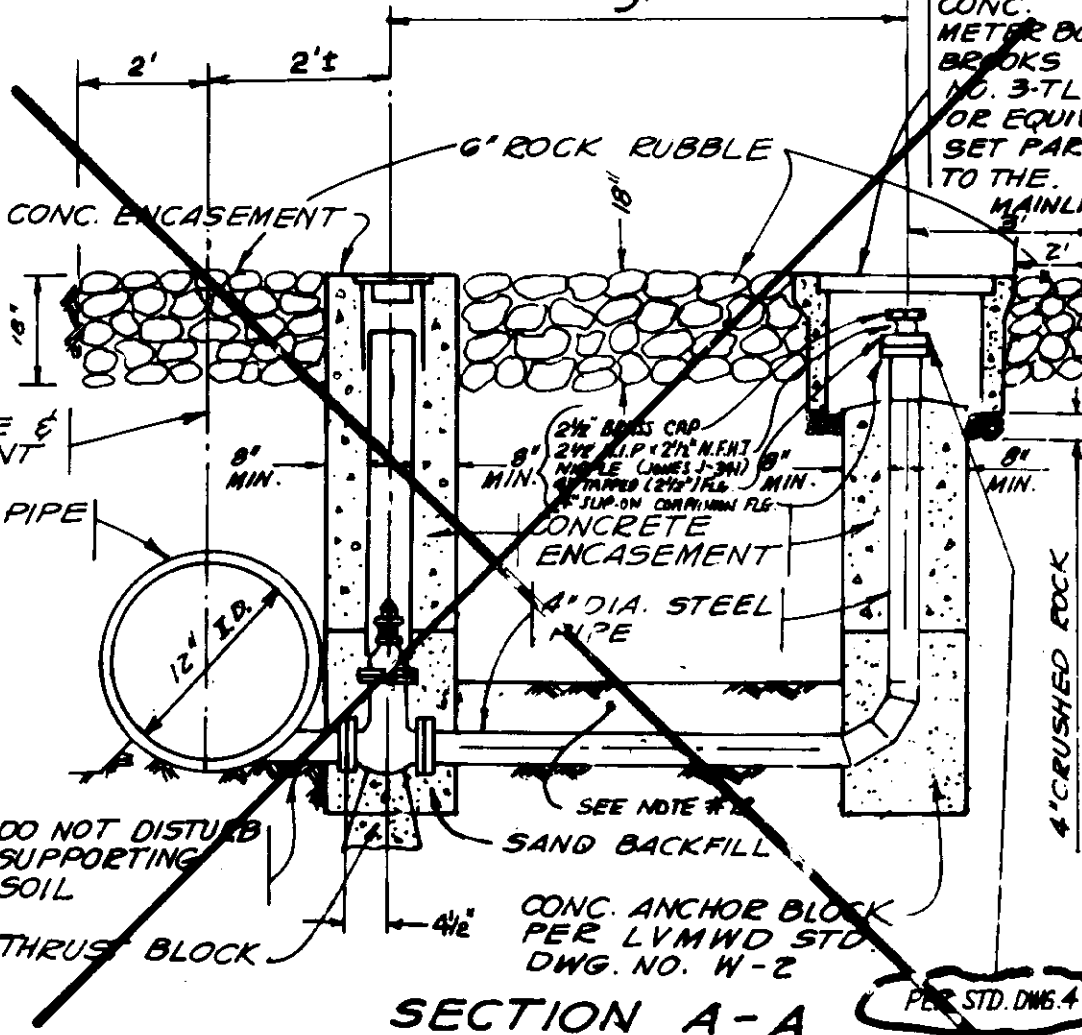


PROFILE SCALE
 VERTICAL 1" = 8'
 HORIZ. 1" = 40'

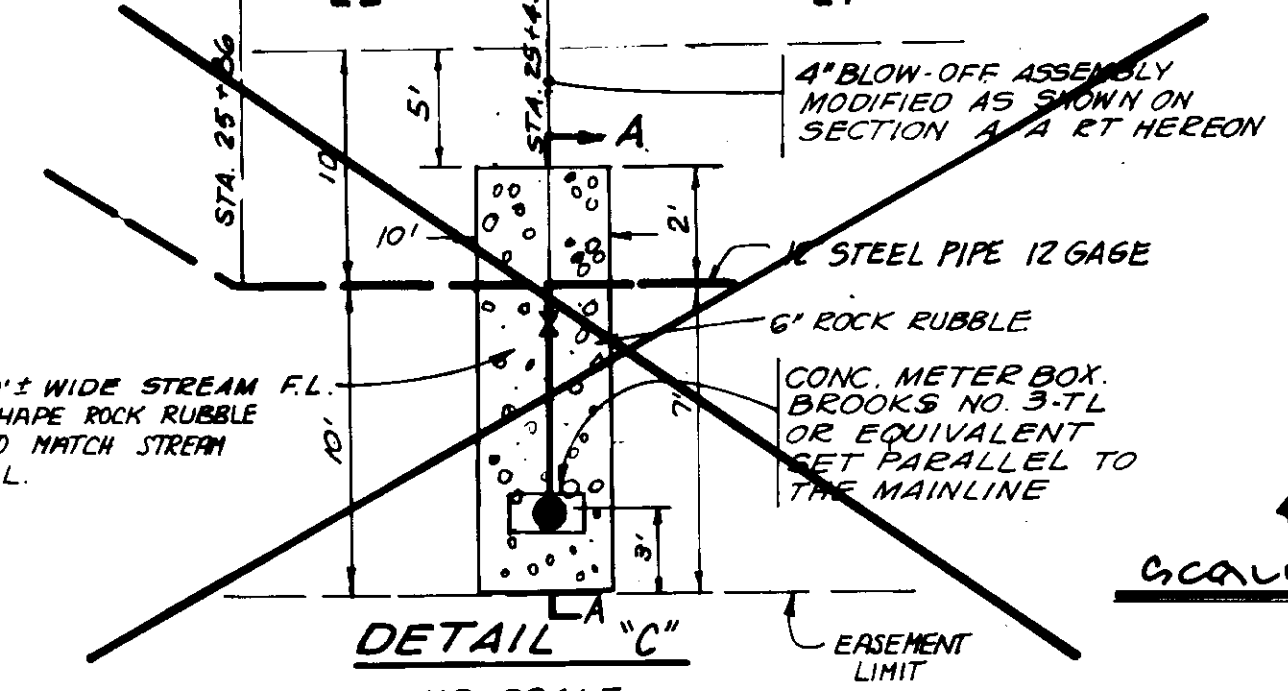
RECORD DRAWING

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 THE INFORMATION FURNISHED BY THE CONTRACTOR AND THE CONSTRUCTION INSPECTOR.

CONSTR. INSP. AGENCY LVMWD DATE 7-21-87
 MODIFIED BY *RLV* AGENCY REC. DATE 7-21-87
 PROJ. ENGR. *RV* AGENCY REC. DATE 7-21-87



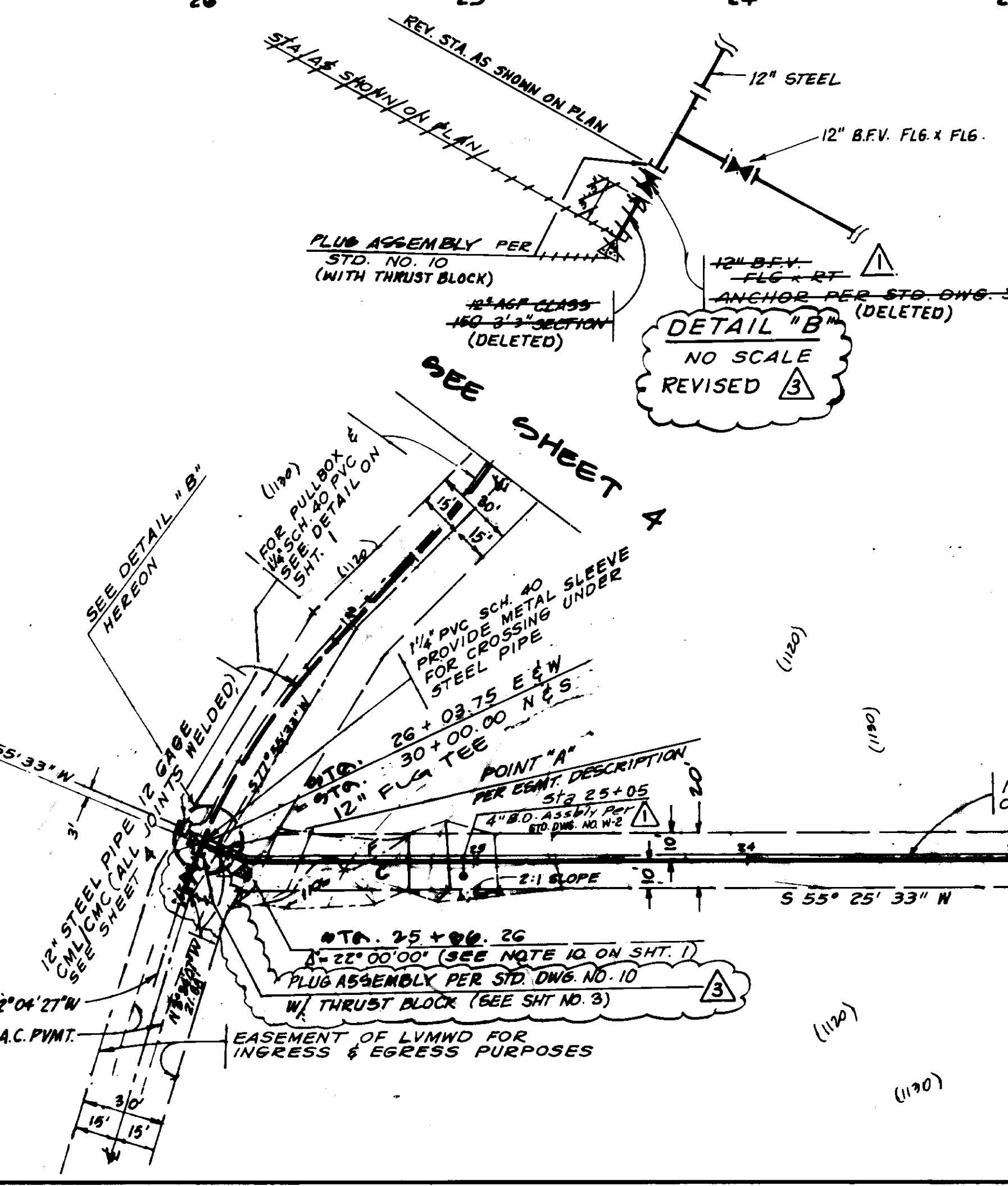
SECTION A-A
 NO SCALE
 REVISED



DETAIL 'C'
 NO SCALE
 REVISED

DETAIL 'B'
 NO SCALE
 REVISED

SCALE 1" = 40'



△	VERTICAL REALIGNMENT.		
△	REV. DURING CONST. AT DISTRICT REQUEST		
△	PLAN CLARIFICATION BY BOYLE ENGINEERING		
△	ISSUED FOR CONSTRUCTION BY L.V.M.W.D.	<i>RLV</i>	12-12-86
REV. NO.	DESCRIPTION OF REVISION	APPRVD.	DATE

LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH TANK / LEWIS & CLARK SYSTEM INTERTIE

PREPARED BY: **CARL CHAPMAN & ASSOC.**
 2346 COTNER AVENUE
 LOS ANGELES, CA 90064
 (213) 477-5083

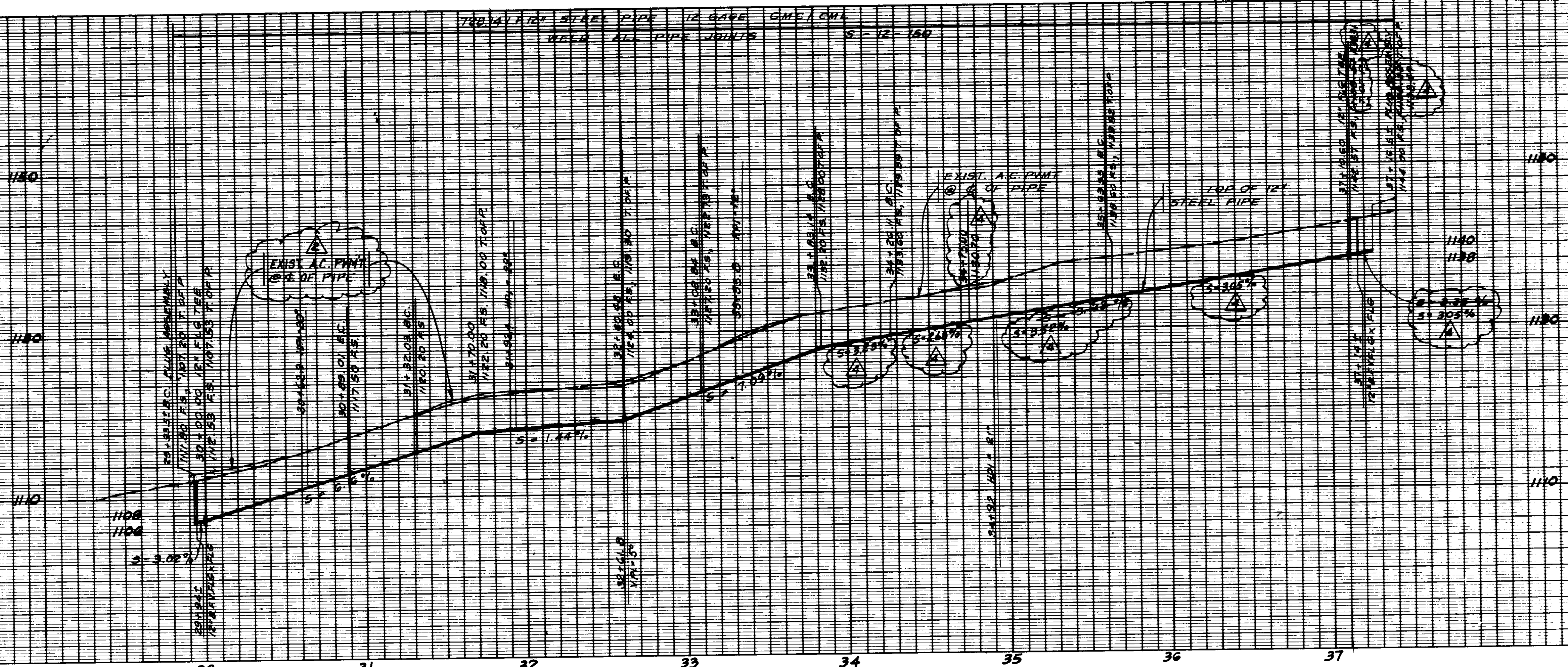
APPROVED FOR LAS VIRGENES MUNICIPAL WATER DISTRICT
 BY: *H.W. Stokes*
 H.W. STOKES, CHIEF ENG'R
 DATE 12-12-86, R.C.E. 9655

SCALE: 1" = 40'
 DATE: 2/21/85
 TRACT NO.:
 DWG. NO.:
 SHEET 3 OF 5

05658

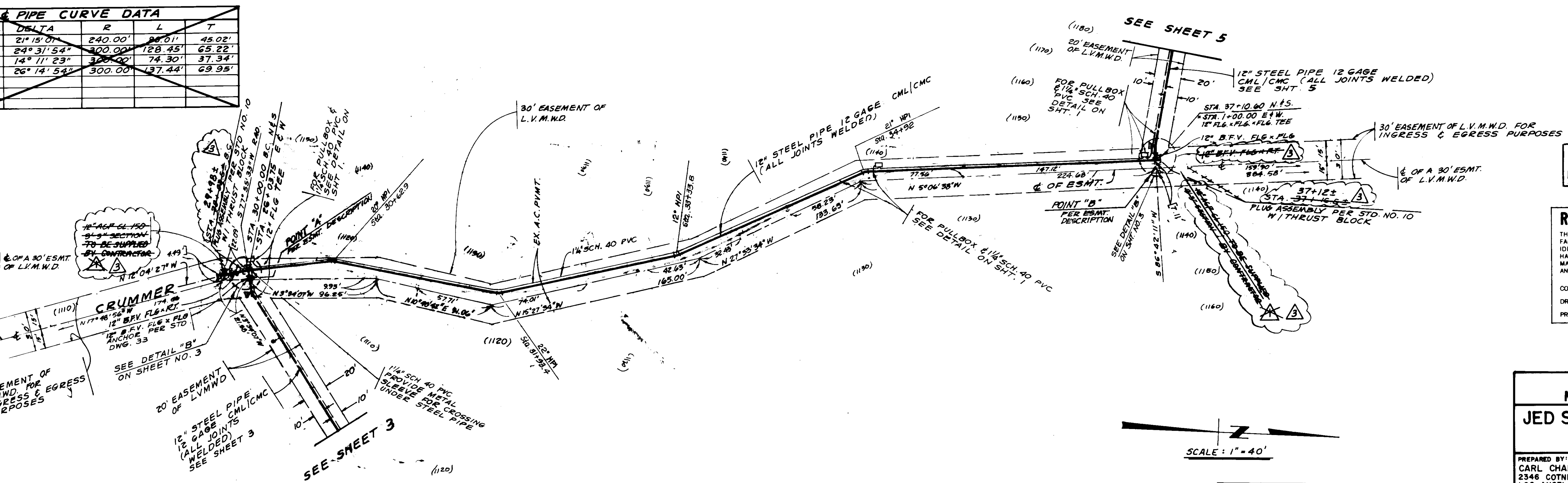
JOB NO. 85-005

12" GAGE CML/CMC
WELD ALL PIPE JOINTS



PROFILE SCALE
VERTICAL 1" = 2'
HORIZ. 1" = 40'

DELTA	R	L	T
21° 15' 01"	240.00'	20.01'	45.02'
24° 31' 54"	300.00'	128.45'	65.22'
14° 11' 23"	300.00'	74.30'	37.34'
26° 14' 54"	300.00'	137.44'	69.95'



PLAN OF RECORD
DATE 8-30-85 BY T.T.O.S.
45-BOLT 100% ALIGNMENT OF PIPE

RECORD DRAWING
THIS RECORD DRAWING APPLIES ONLY TO THE FACILITIES CONSTRUCTED UNDER THE CONTRACT IDENTIFIED IN THE TITLE BLOCK. THIS DRAWING HAS BEEN PREPARED ON THE BASIS OF THE INFORMATION FURNISHED BY THE CONTRACTOR AND THE CONSTRUCTION INSPECTOR.
CONST. INSP. _____ AGENCY L.V.M.W.D. DATE 7/21/87
DRAFTED BY J.R.V. AGENCY BEL DATE 7/21/87
PROJ. ENGR. A.V. AGENCY BEL DATE 7/21/87

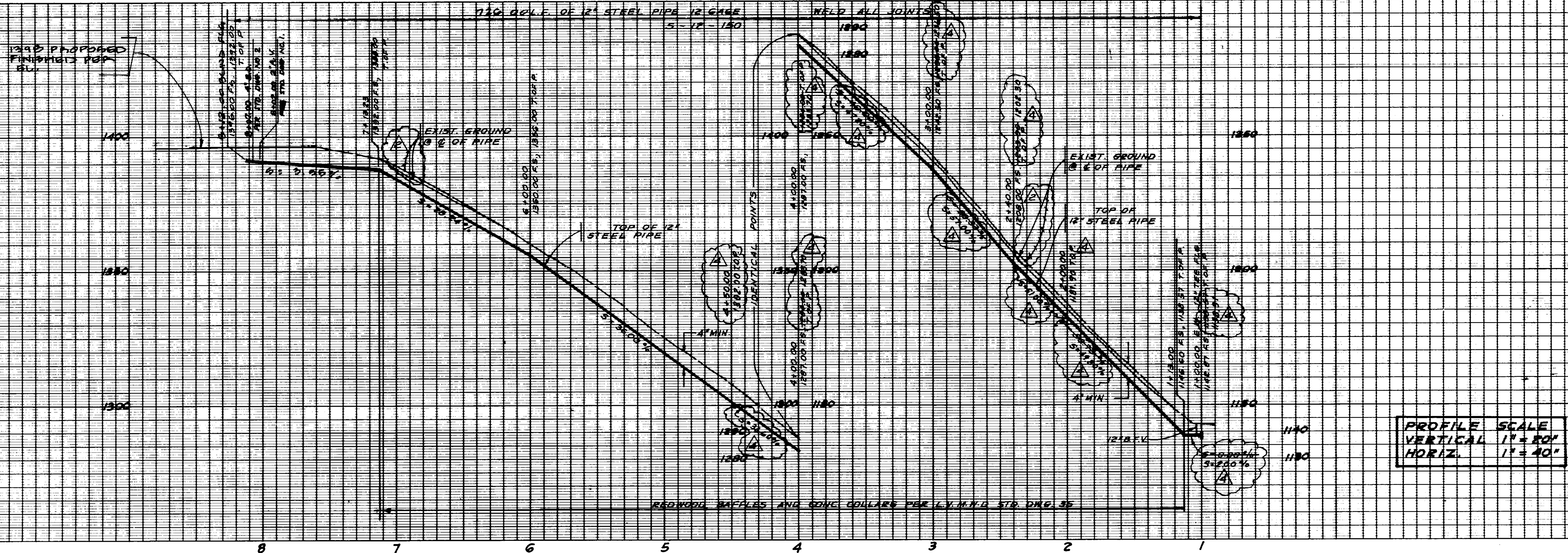
05659

LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH TANK / LEWIS & CLARK SYSTEM INTERTIE

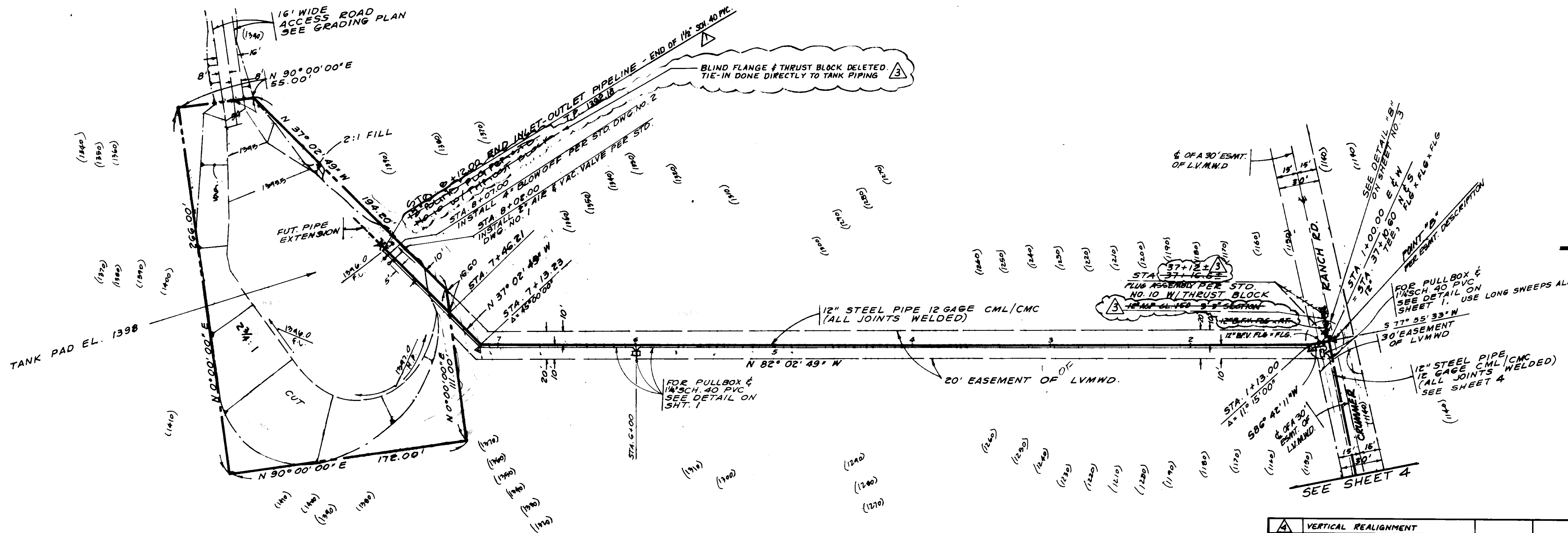
PREPARED BY: CARL CHAPMAN & ASSOC. 2346 COTNER AVENUE LOS ANGELES, CA. 90064 (213) 477-5083
APPROVED FOR LAS VIRGENES MUNICIPAL WATER DISTRICT BY: H.W. STOKES, CHIEF ENGR. DATE 7/21/87
SCALE: 1" = 40' DATE: 2/21/85 TRACT NO.: _____ DWG. NO.: SHEET 4 OF 5

REV. NO.	DESCRIPTION	APPR. 'D	DATE
1	VERTICAL REALIGNMENT		
2	REV. DURING CONST. AT DISTRICT REQUEST		
3	PLAN CLARIFICATION BY BOYLE ENGINEERING		
4	ISSUED FOR CONSTRUCTION BY L.V.M.W.D.		

5-204
JOB NO. 85-003



PROFILE SCALE
 VERTICAL 1" = 20"
 HORIZ. 1" = 40"



SCALE: 1" = 40'

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 THE INFORMATION FURNISHED BY THE CONTRACTOR AND THE CONSTRUCTION INSPECTOR.
 CONST. INSP. _____ AGENCY LVMWD DATE 1-21-87
 DRAFTED BY *gpc* AGENCY BEC. DATE 1-21-87
 PROJ. ENGR. *TC* AGENCY BEC. DATE 1-21-87

05660

LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH TANK / LEWIS & CLARK SYSTEM INTERTIE

PREPARED BY: CARL CHAPMAN & ASSOC. 2346 COTNER AVENUE LOS ANGELES, CA 90064 (213) 477-5085
 APPROVED FOR LAS VIRGENES MUNICIPAL WATER DISTRICT BY: *H.W. Stokes* H.W. STOKES, CHIEF ENGR. DATE 12-13-86 R.C.E. 9855
 CARL CHAPMAN R.C.E. 23777

△	VERTICAL REALIGNMENT		
△	REV. DURING CONST. AT DISTRICT REQUEST		
△	PLAN CLARIFICATION BY BOYLE ENGINEERING		
△	ISSUED FOR CONSTRUCTION BY L.V.M.W.D.	<i>HWS</i>	12-12-86
REV. NO.	DESCRIPTION	APPR'D	DATE

SCALE: 1" = 40' DATE: 2/21/85 TRACT NO.: DWG. NO.: SHEET 5 OF 5

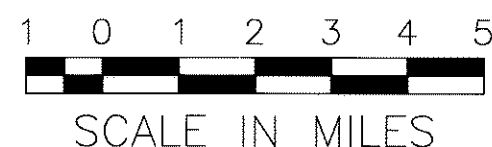
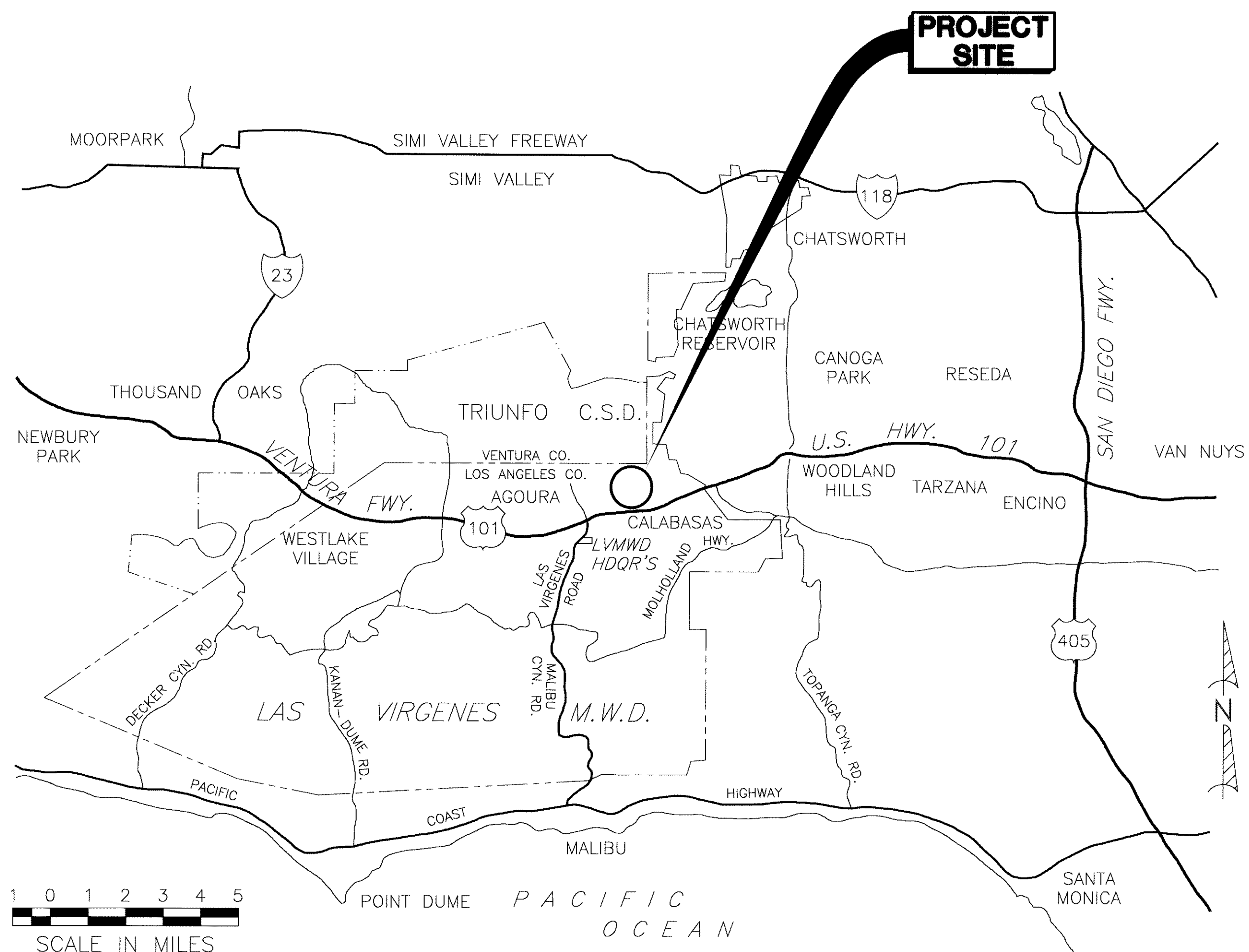
JOB NO. 85-003

LAS VIRGENES MUNICIPAL WATER DISTRICT

LOS ANGELES COUNTY, CALIFORNIA

CONSTRUCTION PLANS FOR

JED SMITH PUMP STATION UPGRADE



VICINITY MAP

BOYLE SHEET INDEX

- G-1 TITLE SHEET
- G-2 GENERAL NOTES AND SITE PLAN
- C-1 EQUIPMENT PLAN AND SECTIONS
- C-2 SURGE TANK AND SECTION DETAILS
- E-1 ELECTRICAL LEGEND, SYMBOLS, AND ABBREVIATIONS
- E-2 EXISTING SINGLE LINE AND SCHEMATIC DIAGRAMS DEMOLITION
- E-3 SIGNAL LINE - UPGRADE
- E-4 ELECTRICAL POWER PLAN
- E-5 ELECTRICAL CONDUIT AND PANEL SCHEDULES
- E-6 CONTROL SCHEMATIC DIAGRAM UPGRADE

MSO SHEET INDEX

- 1 EQUIPMENT LOCATION DIAGRAM
- 2 CONTROL PANEL LAYOUT, PARTS LIST, AND COMMUNICATION DETAILS
- 3 CONTROL PANEL CONSTRUCTION AC AND DC POWER WIRING DETAILS
- 4 CONTROL PANEL CONSTRUCTION ANALOG INPUT WIRING DETAILS
- 5 PLC CONTROL PANEL WIRING DIGITAL & OUTPUT WIRING DETAILS

PLANS PREPARED BY:
BOYLE ENGINEERING CORPORATION

Robert D. Ellison 2/20/05
ROBERT D. ELLISON DATE
PROJECT MANAGER

APPROVED FOR LAS VIRGENES MUNICIPAL WATER DISTRICT

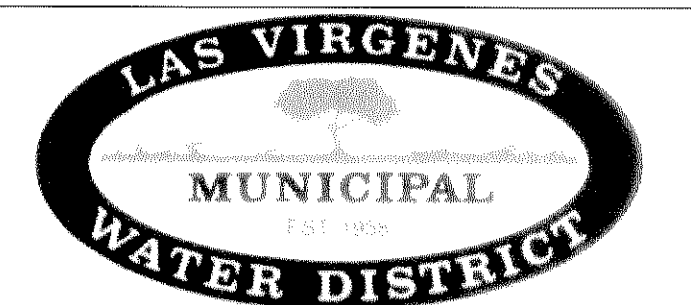
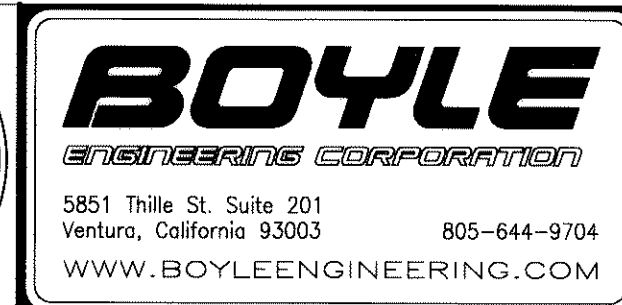
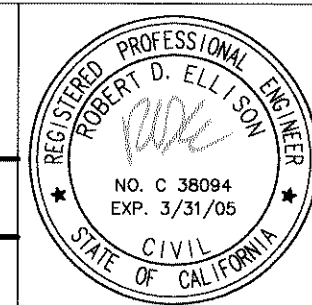
BY: _____ DATE _____
JOHN MUNDY - GENERAL MANAGER

08908

REV	DATE	DESCRIPTION	APPR
1	12-1-04	100% SUBMITTAL	

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

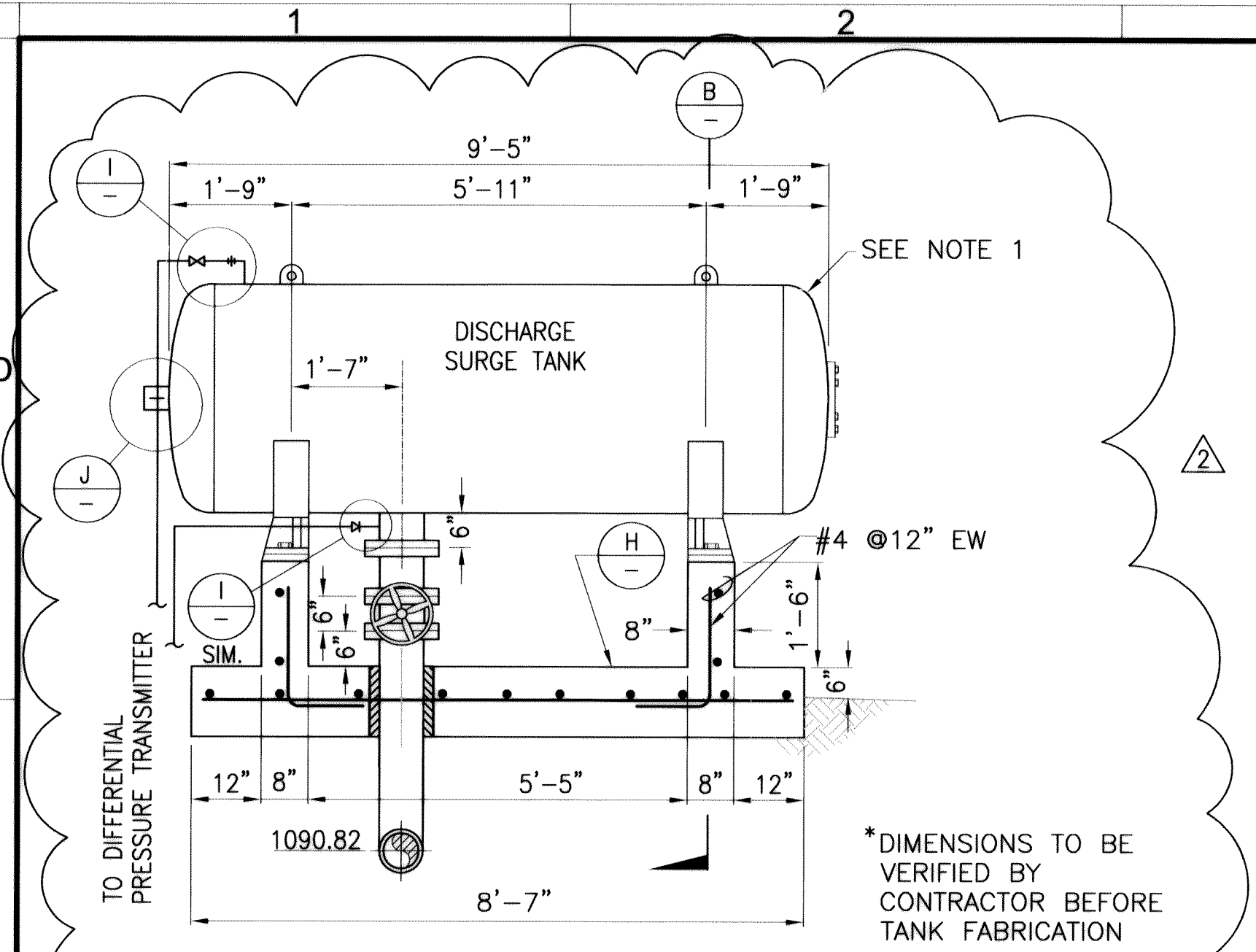
DESIGNED BY	RDE	PROJECT ENGINEER	ROBERT D. ELLISON
DRAWN BY	GD	REG NUMBER	38094
CHECKED BY	RDE	EXP DATE	3-31-05
DATE	9/10/04	PROJECT NUMBER	VT-L02-192-01
		CADD STANDARDS	BOYLE



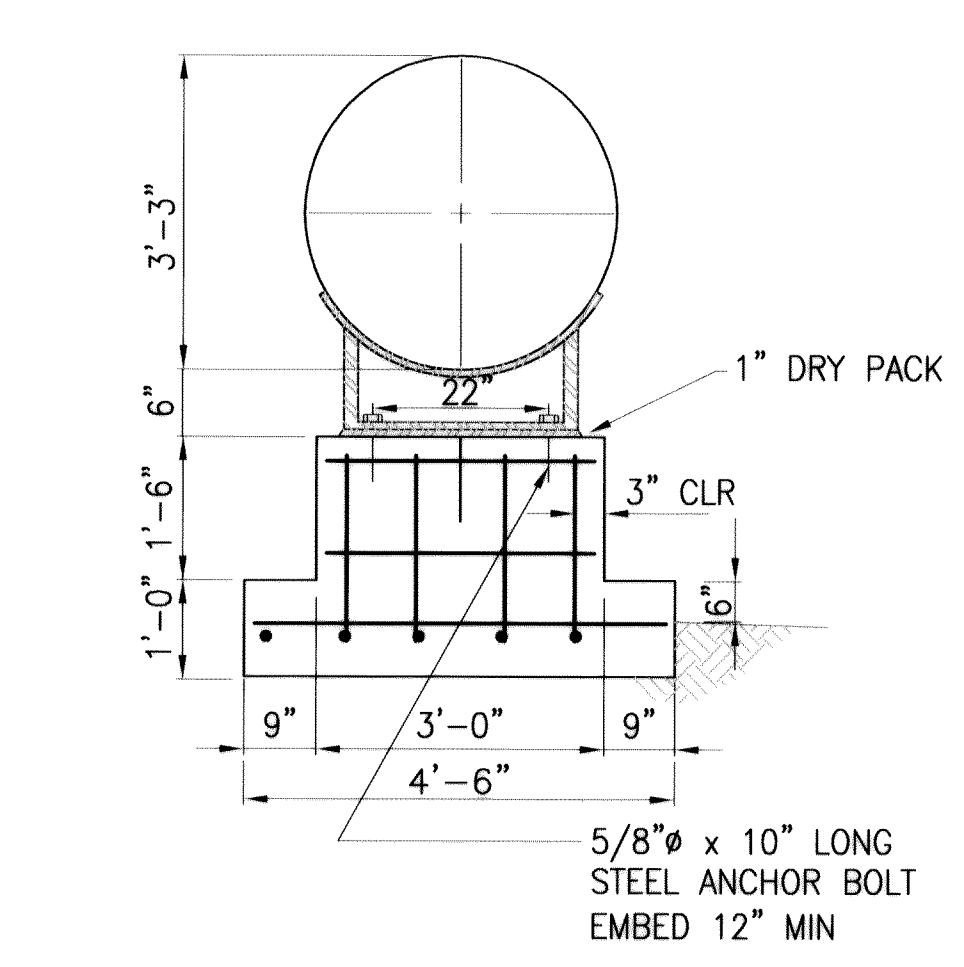
LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION UPGRADE
TITLE SHEET

DRAWING G-1
SHEET 1
OF -- SHEETS

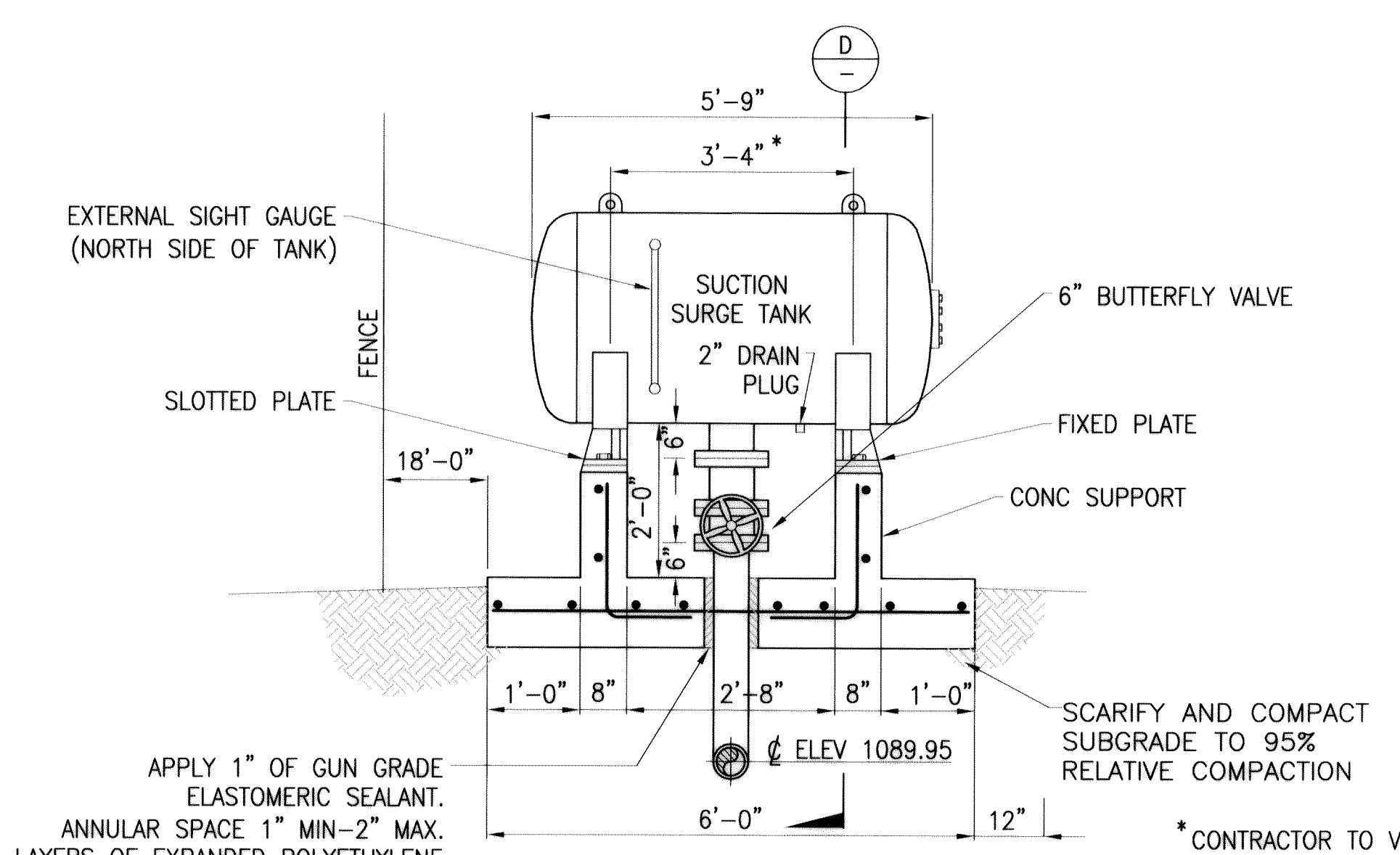
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 USHP: gbovis
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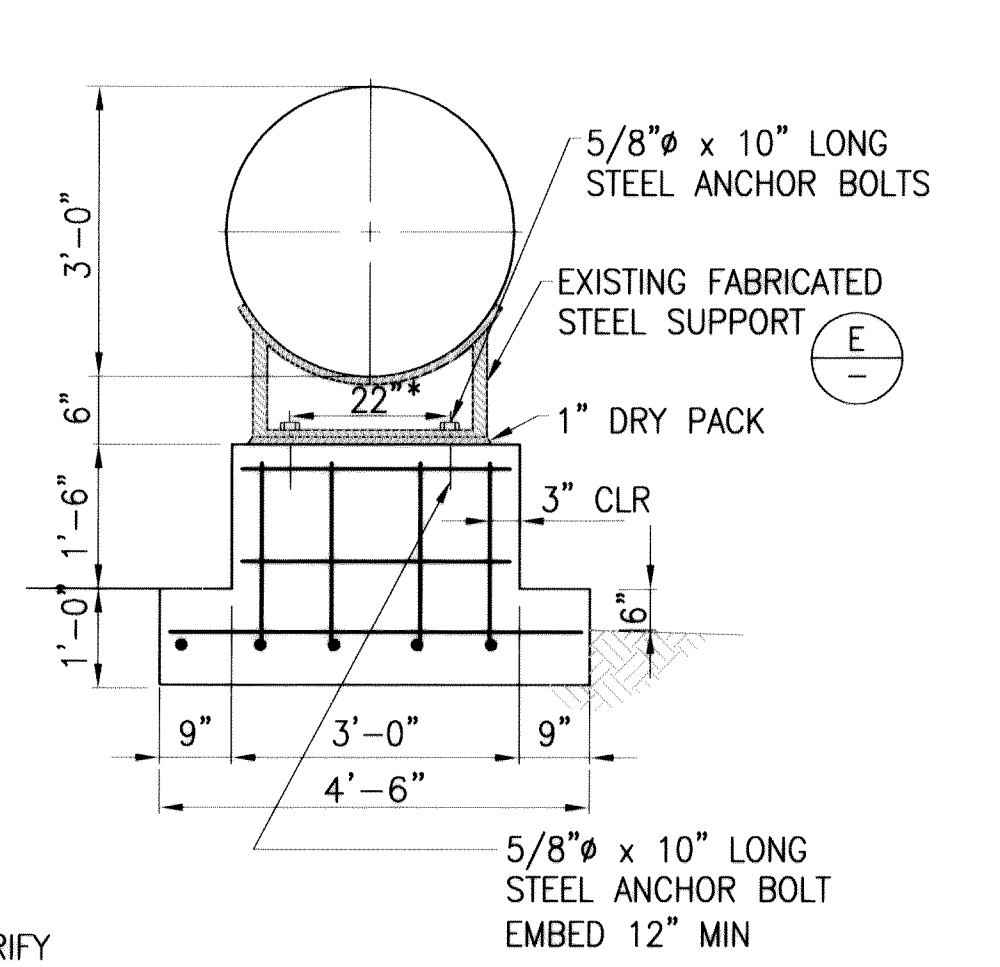
DISCHARGE SURGE TANK SECTION
SCALE: 1/2" = 1'-0"



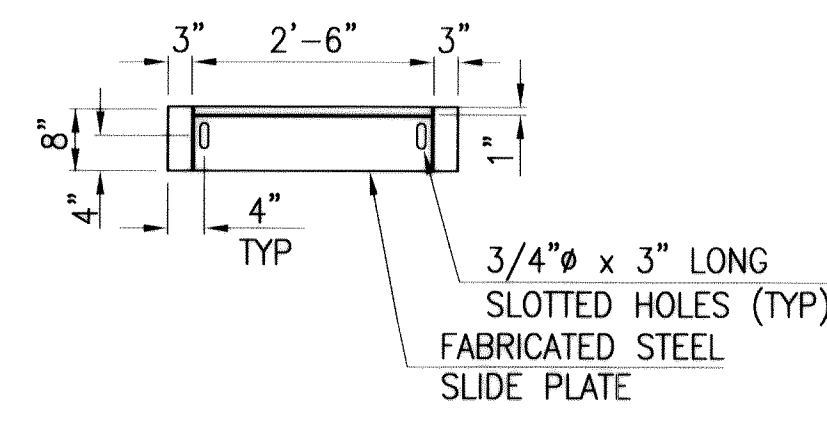
DISCHARGE SURGE TANK SECTION
SCALE: 1/2" = 1'-0"



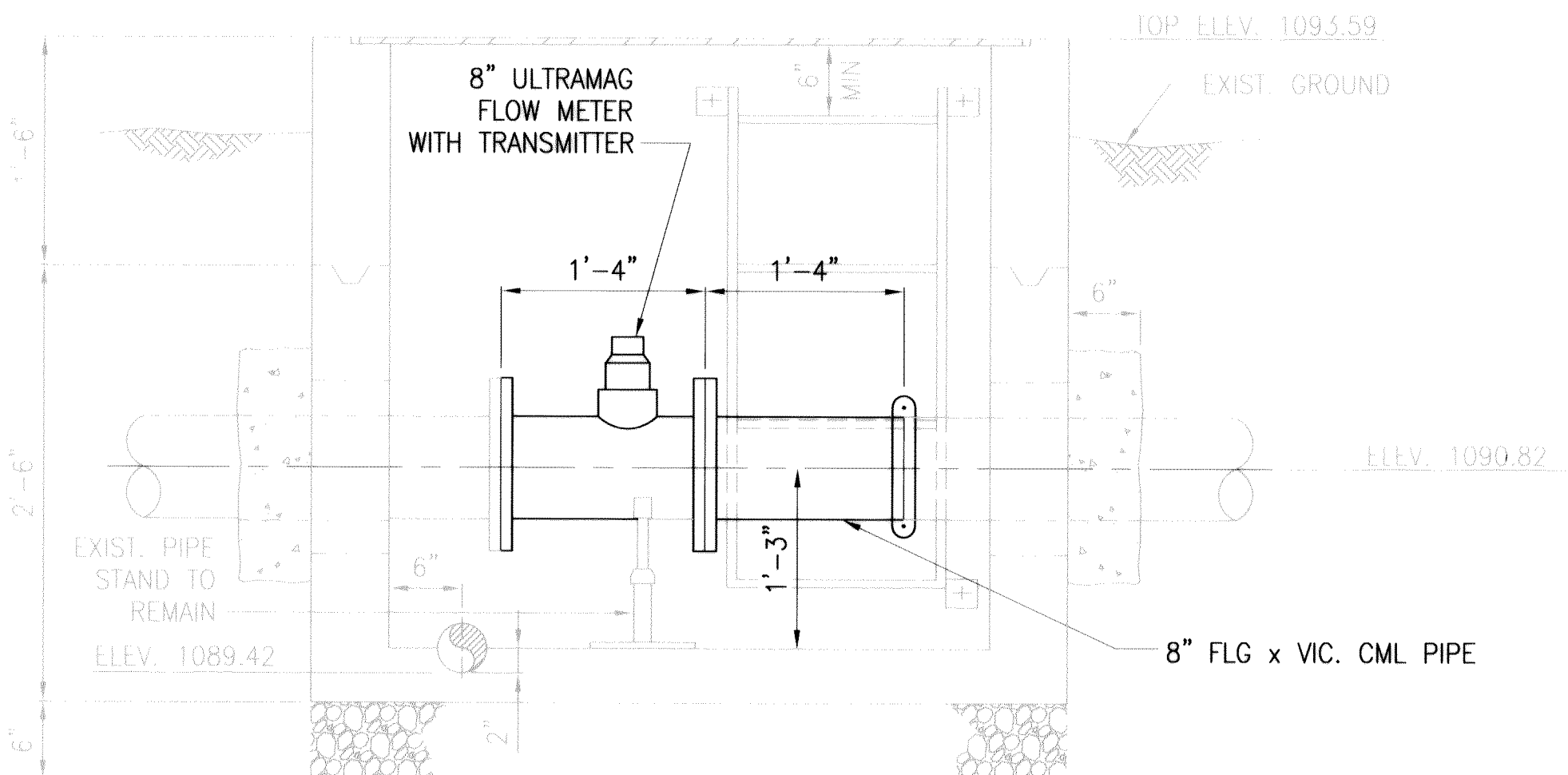
SUCTION SURGE TANK SECTION
SCALE: 1/2" = 1'-0"



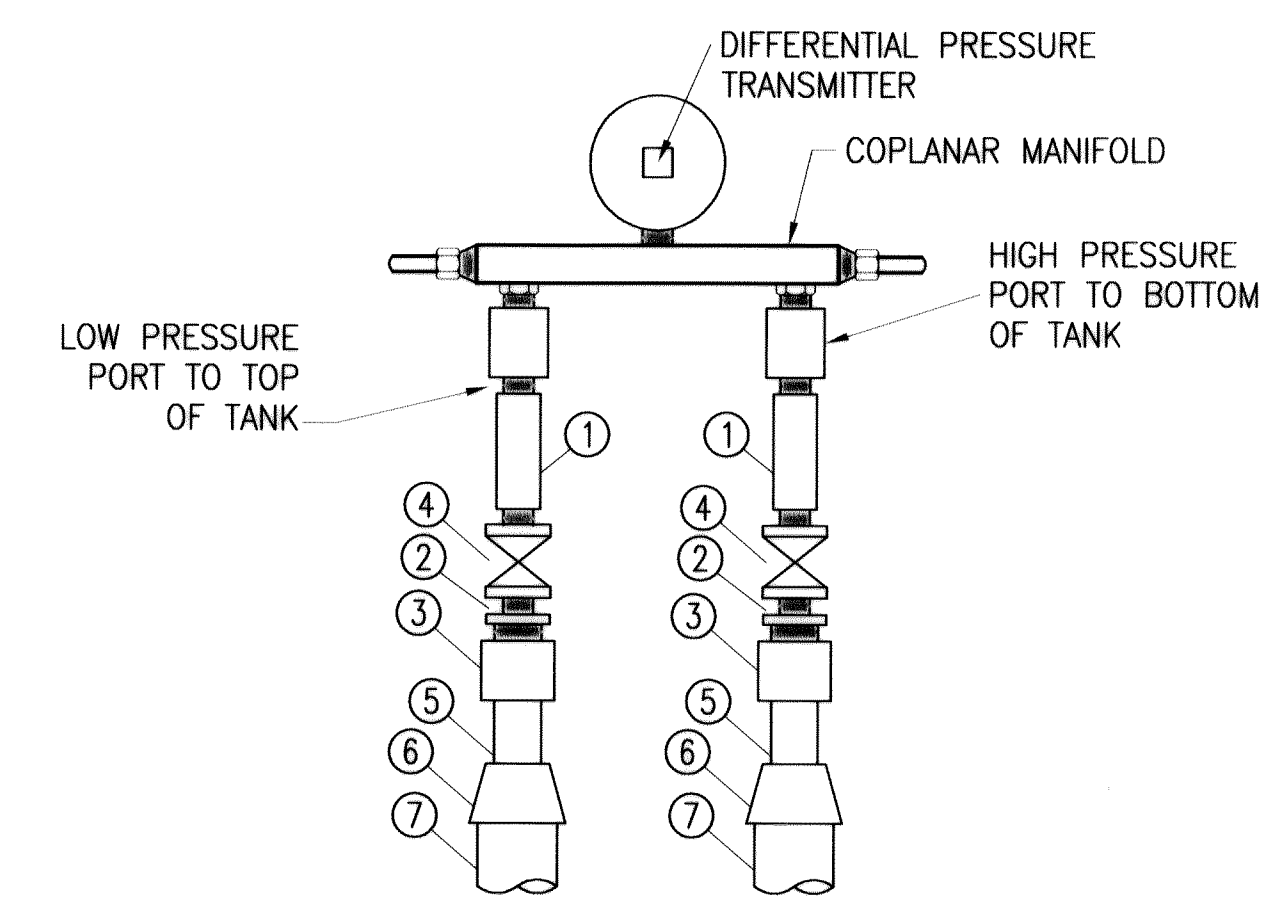
SUCTION SURGE TANK SECTION
SCALE: 1/2" = 1'-0"



PLAN - STEEL SUPPORT PLATE
SCALE: 1/2" = 1'-0"

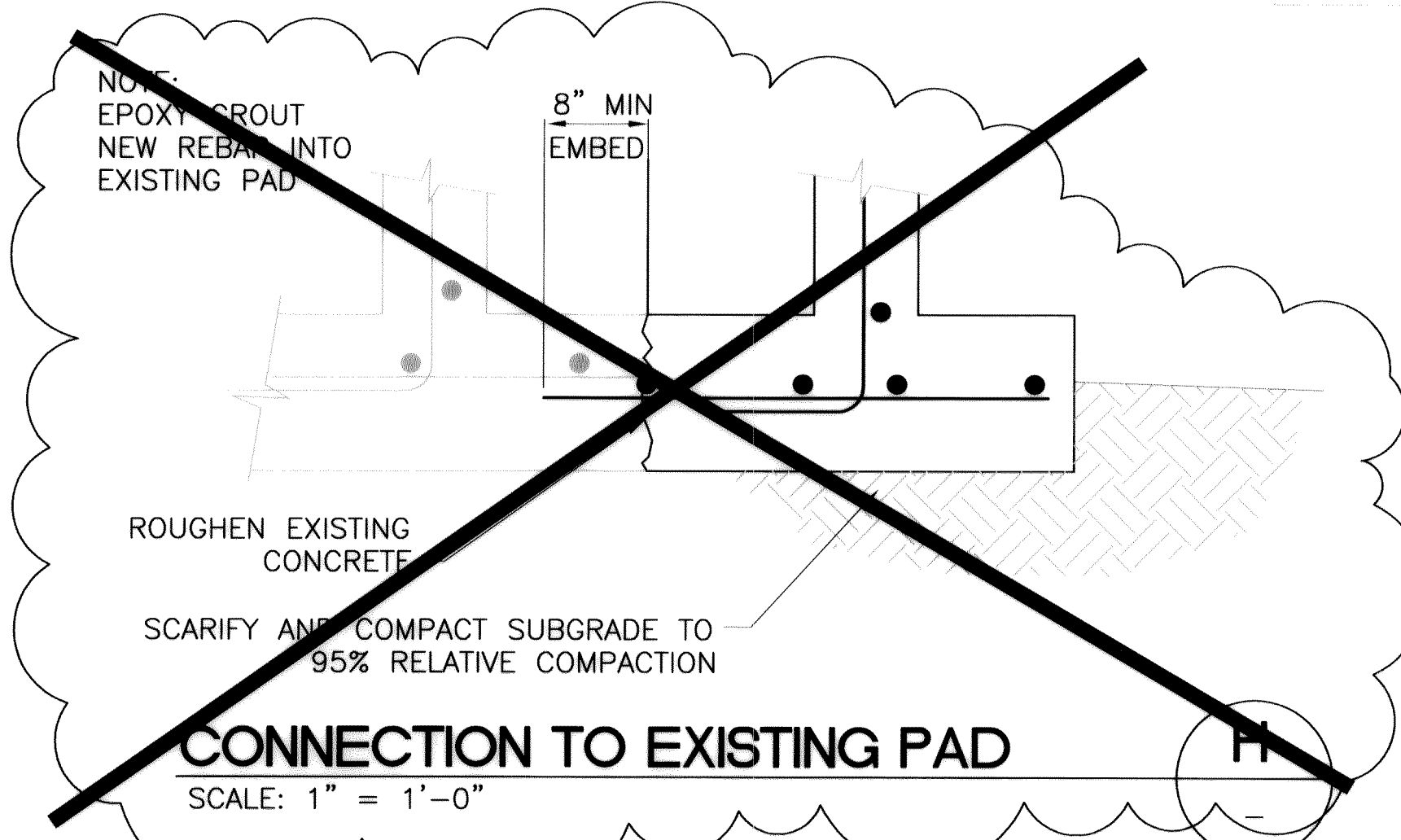


FLOW METER
SCALE: 1" = 1'-0"

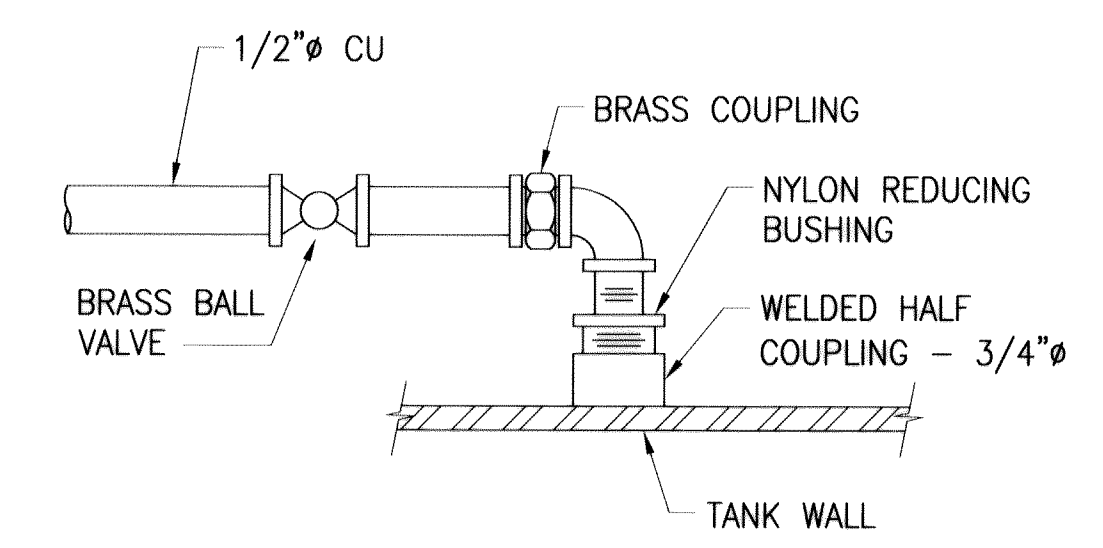


DIFFERENTIAL PRESSURE TRANSMITTER
N.T.S.

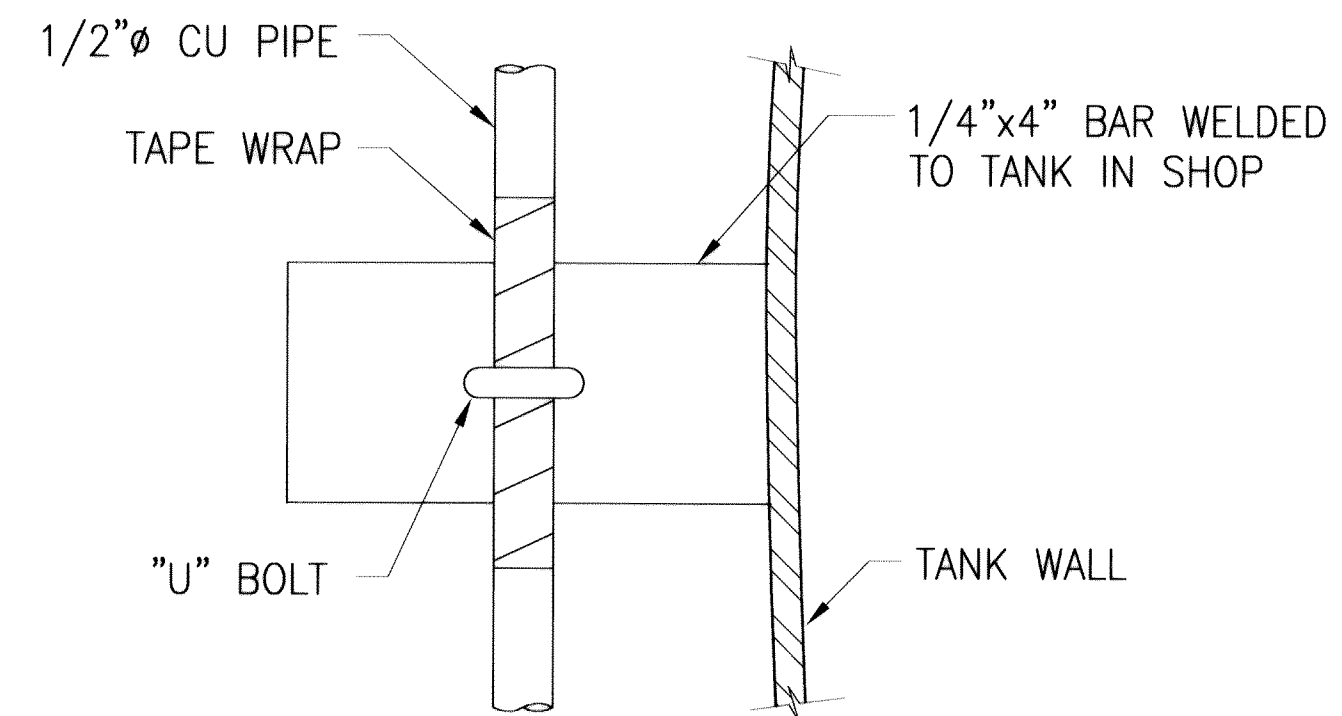
- MATERIALS:**
- ① 1/4" S.S. ASHCROFT DAMPENERS.
 - ② NYLON BUSHING.
 - ③ BRASS COUPLING FPT x SOLDER.
 - ④ 1/4" STAINLESS STEEL BALL VALVE RATED TO A MINIMUM OF 600 PSI, WITH 3/4" x 1/2" NYLON BUSHING.
 - ⑤ 3/8" COPPER PIPE.
 - ⑥ 1/2" x 3/8" REDUCER, CU.
 - ⑦ 1/2" COPPER PIPE.
- NOTE: GRADE OF STAINLESS STEEL TO BE TYPE 316.



CONNECTION TO EXISTING PAD
SCALE: 1" = 1'-0"



VALVE AND COUPLING DETAIL
N.T.S.



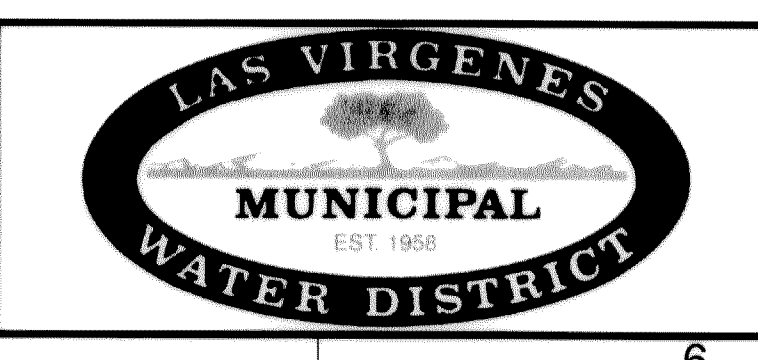
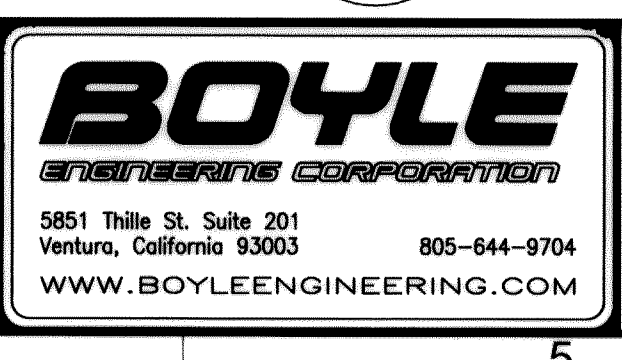
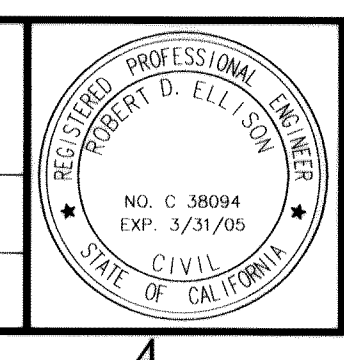
PIPE MOUNT DETAIL
N.T.S.

- NOTES:**
1. REMOVE EXISTING DISCHARGE SURGE TANK AND REPLACE WITH 525-GALLON TANK.
 2. NEW TANK TO BE INSTALLED AND FUNCTIONING WITHIN 24 HOURS OF OLD TANK REMOVAL.
 3. CONTRACTOR TO VERIFY DISCHARGE SURGE TANK DIMENSIONS BEFORE CONSTRUCTION BEGINS.
 4. PIPING ON THIS PLAN SHALL BE STEEL, UNLESS OTHERWISE NOTED. STEEL PIPE SHALL BE NPS SCHEDULE 40, CEMENT MORTAR LINED, CEMENT MORTAR COAT WHERE BURIED.
 5. ABOVE GROUND PIPING SHALL BE COATED PER SYSTEM 7 IN SPECIFICATIONS SECTION 09900.
 6. ALL FLANGES SHALL BE ANSI B16.5, CLASS 150. ALL RAISED FACE FLANGES SHALL HAVE THE FACE REMOVED. VERIFY COMPATIBILITY OF FLANGES PRIOR TO CONSTRUCTION.

DWG: F:\LVMWD\0219201 - and Smith PS Expansion\CAD\Plan\A-C-002.dwg
 DATE: Jun 06, 2006 4:03pm
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 section3.tif
 Surge Tank2.tif
 LVMWD_groscale.tif

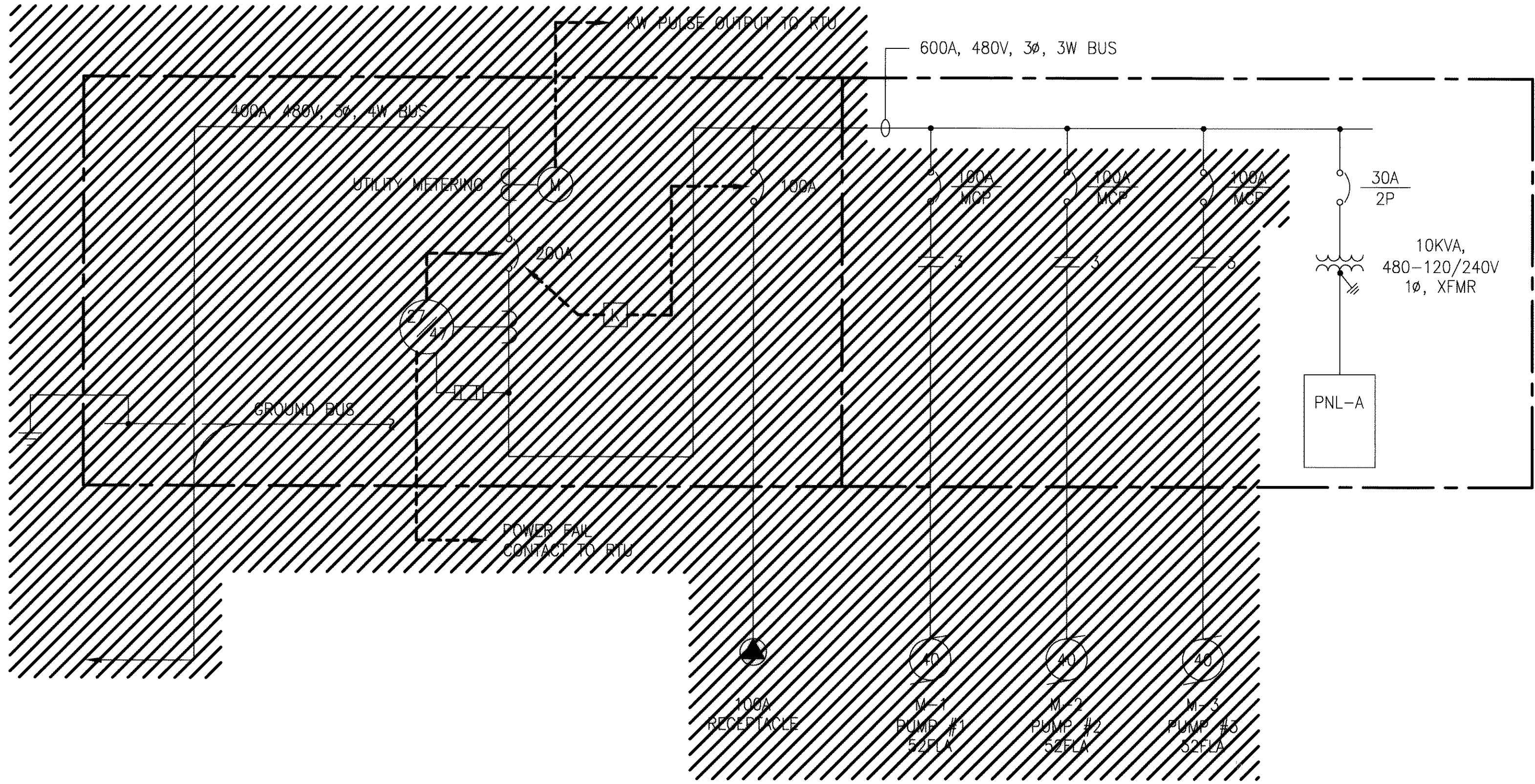
REV	DATE	DESCRIPTION	APPR
4-28-06		AS BUILT	
12-1-04		100% SUBMITTAL	

DESIGNED BY RDE	PROJECT ENGINEER ROBERT D. ELLISON
DRAWN BY GD	REG NUMBER 38094
CHECKED BY RDE	EXP DATE 3-31-05
DATE 9/10/04	PROJECT NUMBER VT-L02-192-01
	CADD STANDARDS BOYLE

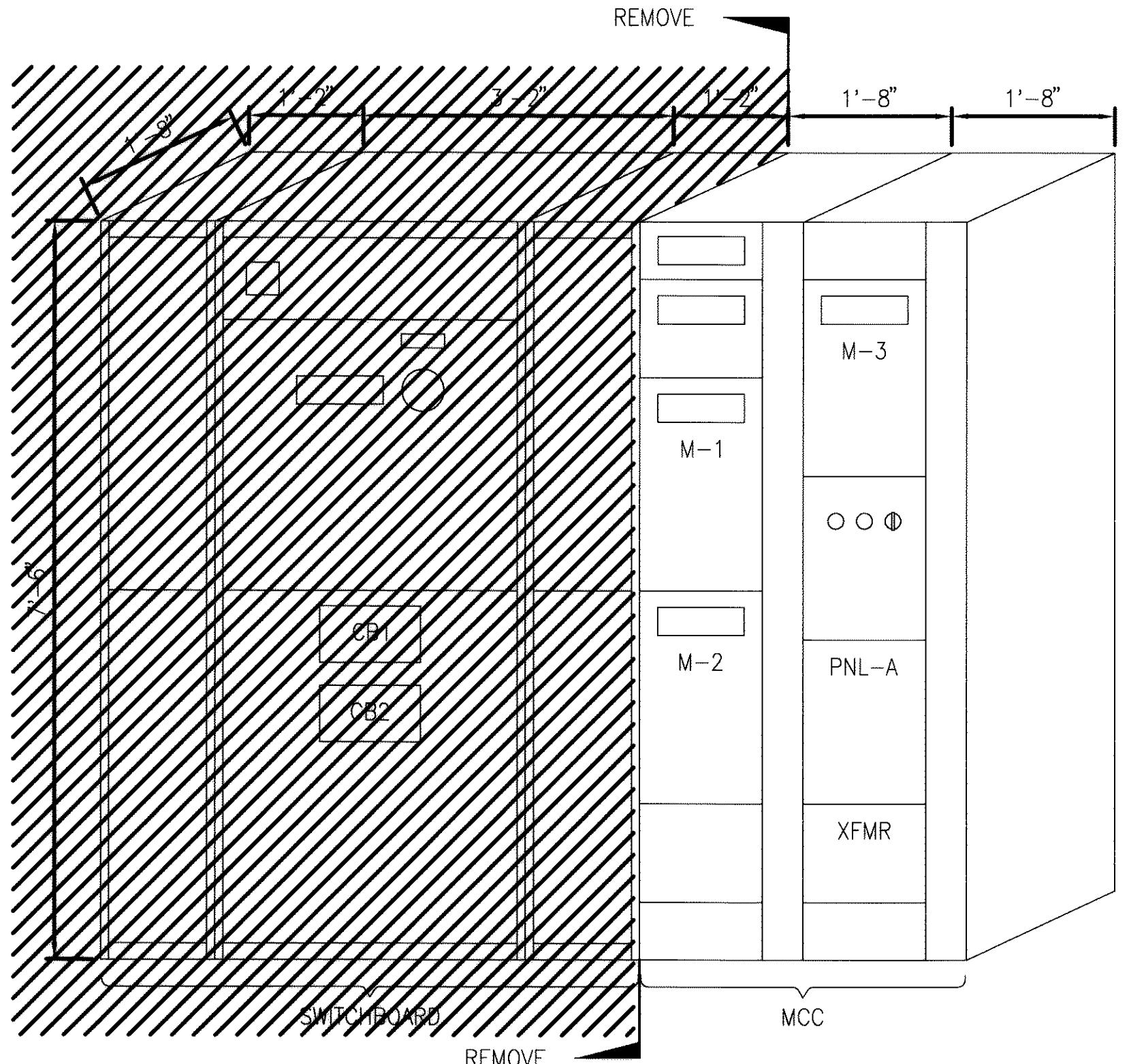


LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION UPGRADE
SURGE TANK AND SECTION DETAILS

DRAWING C-2
SHEET 4
OF SHEETS

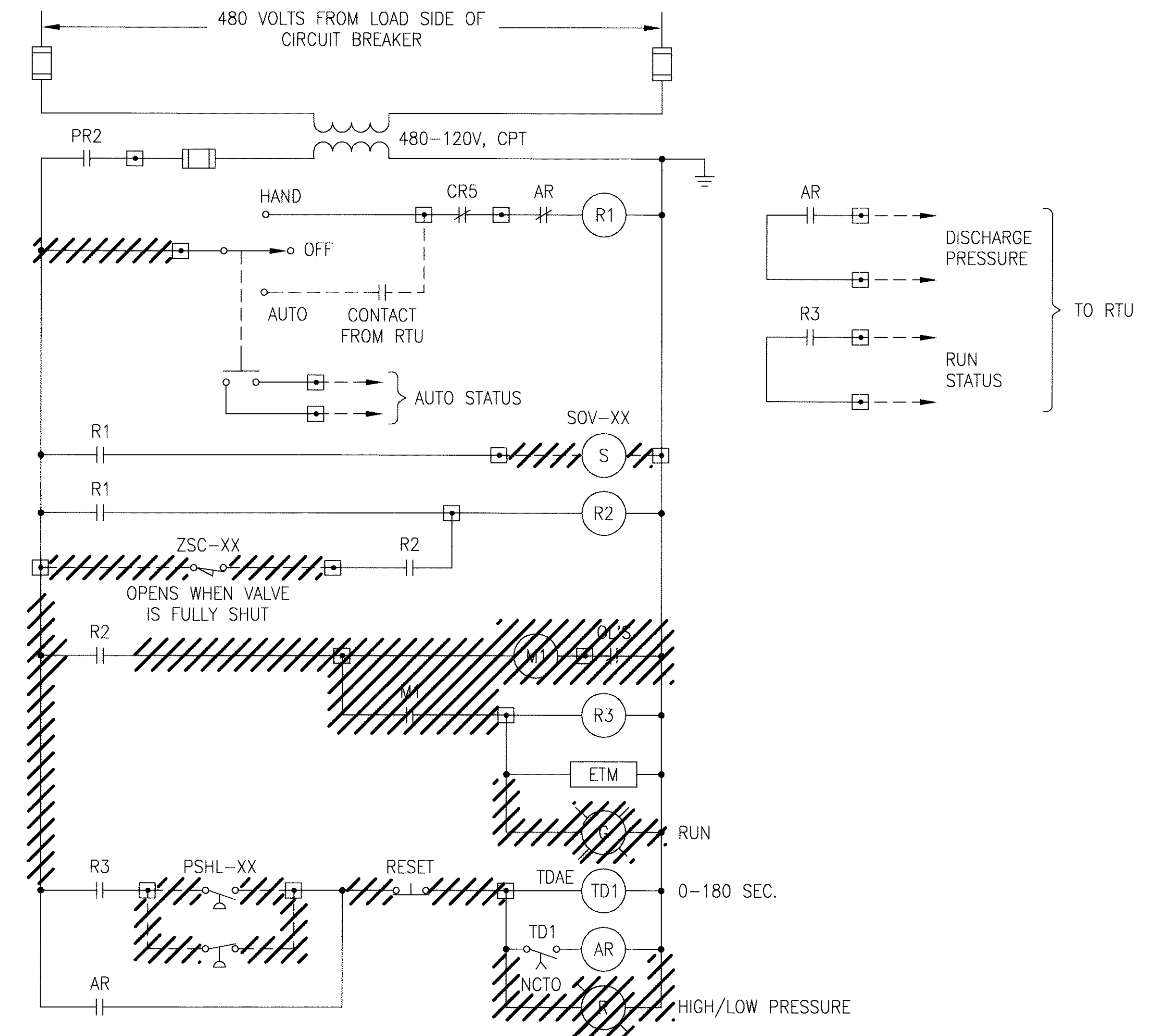


PUMP STATION SINGLE LINE DIAGRAM 1
1

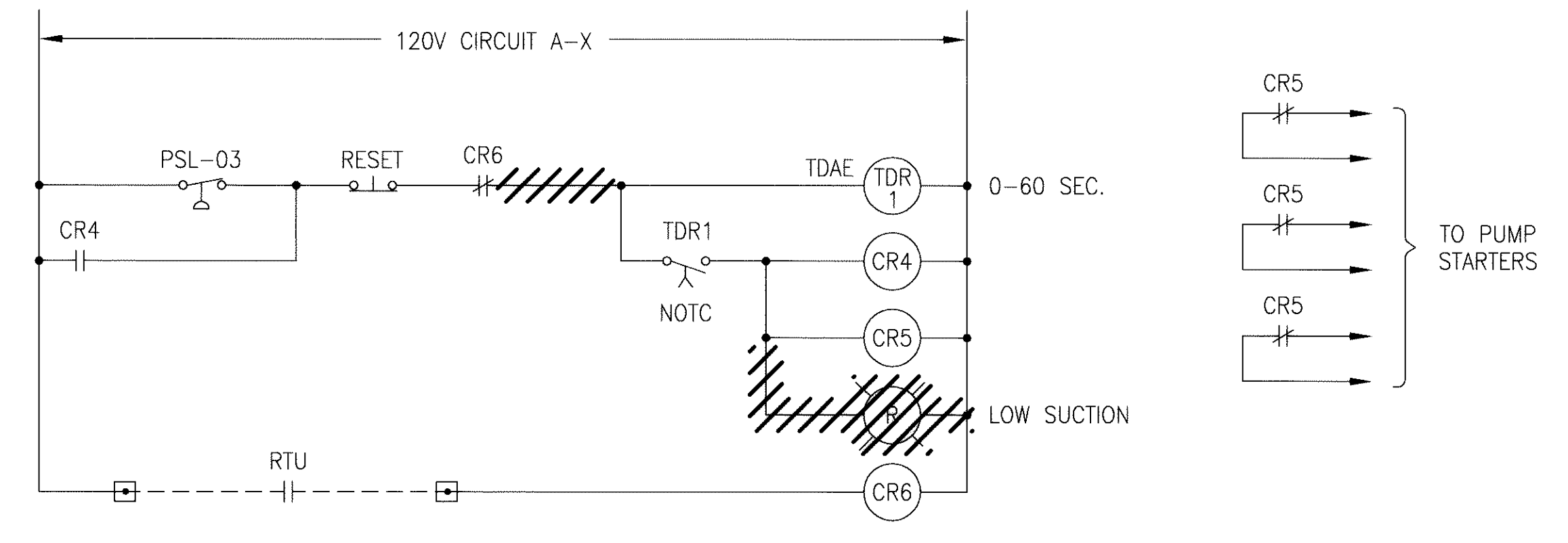


MAIN SWITCHBOARD & MCC ELEVATION 1
2

NOTES:
1 EQUIPMENT SHOWN CROSS-HATCHED SHALL BE DEMOLISHED.



PUMP CONTROL SCHEMATIC DIAGRAM 1
(TYPICAL OF 3) 3

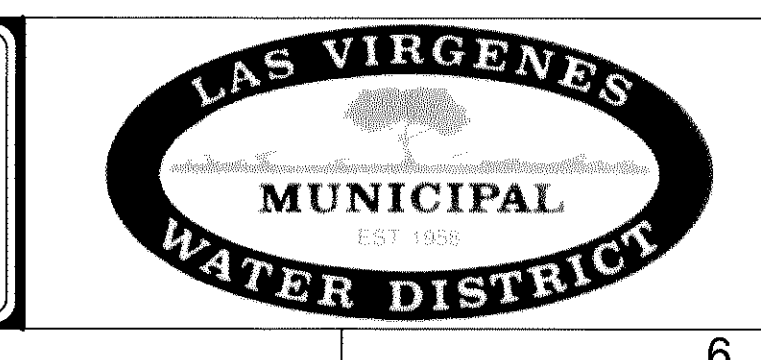
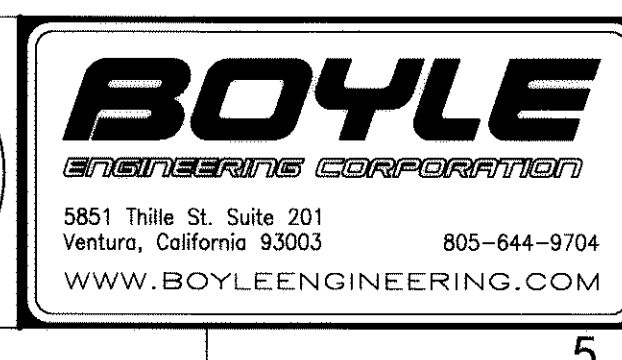
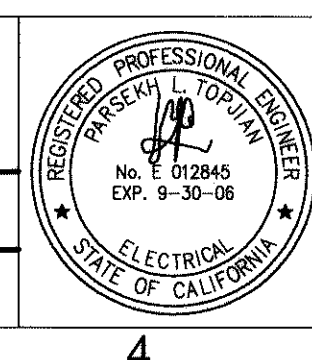


STATION LOW SUCTION PRESSURE SCHEMATIC DIAGRAM 1
4

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 USER: gdwms
 DATE: Feb 25, 2005 8:42am
 XREFS: 9-bd
 den-rer-stmp
 L:\MWD_groscast.tif
 IMAGES: L:\MWD_groscast.tif

REV	DATE	DESCRIPTION	PLT	APPR
12-1-04		100% SUBMITTAL	PLT	

DESIGNED BY	PLT	PROJECT ENGINEER	PARSEKH L. TOPJIAN
DRAWN BY	DMD	REG NUMBER	E 012845
CHECKED BY	PLT	EXP DATE	9-30-06
DATE	9/10/04	PROJECT NUMBER	
		CADD STANDARDS	BOYLE



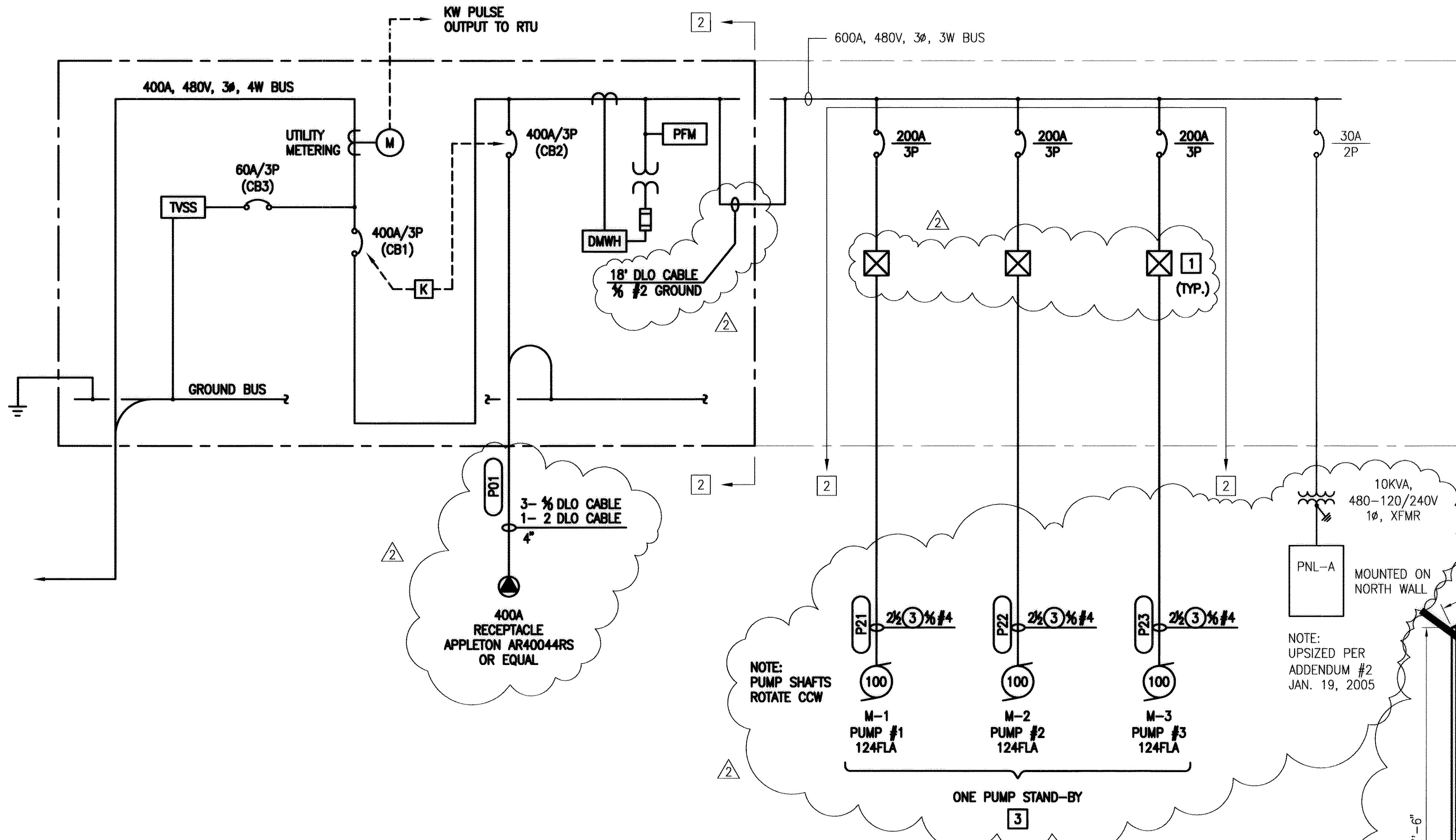
08913

LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION UPGRADE

EXISTING SINGLE LINE
& SCHEMATIC DIAGRAMS DEMOLITION

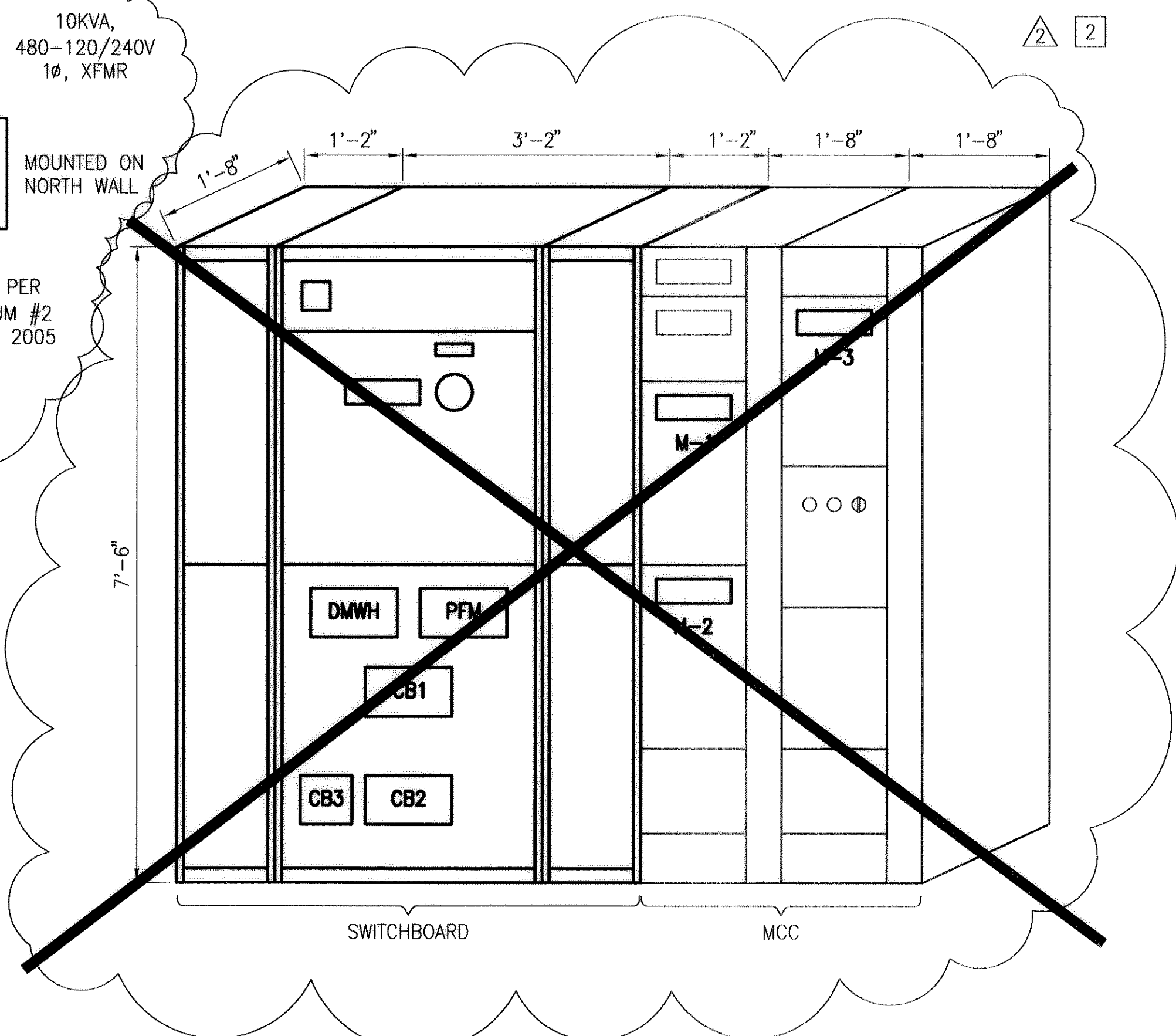
DRAWING	E-2
SHEET	6
OF SHEETS	
FILE	E-002.dwg

Dec. 06, 2004



PUMP STATION SINGLE LINE DIAGRAM

- NOTES:
- 1 100 HP SOLID-STATE-STARTER.
 - 2 SEE O&M MANUAL FOR ACTUAL ELEVATION.
 - 3 PLC WILL BE PROGRAMMED BY OTHERS. PROGRAMMING TO PREVENT 3 PUMPS FROM RUNNING SIMULTANEOUSLY.



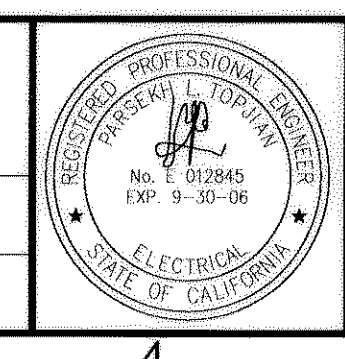
MAIN SWITCHBOARD & MCC ELEVATION

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

PWS: F:\LVMWD\08914-01 - ed - 08914-01 - 003.dwg
 DATE: 01/05/2005 4:02pm
 USER: LVMWD-physicist
 APPR: PLT

REV	DATE	DESCRIPTION	PLT
4-28-06	AS BUILT		
12-1-04	100% SUBMITTAL		

DESIGNED BY	PLT	PROJECT ENGINEER	PARSEKH L. TOPJIAN
DRAWN BY	DMD	REG NUMBER	E 012845
CHECKED BY	PLT	EXP DATE	9-30-06
DATE	9/10/04	PROJECT NUMBER	
		CADD STANDARDS	BOYLE



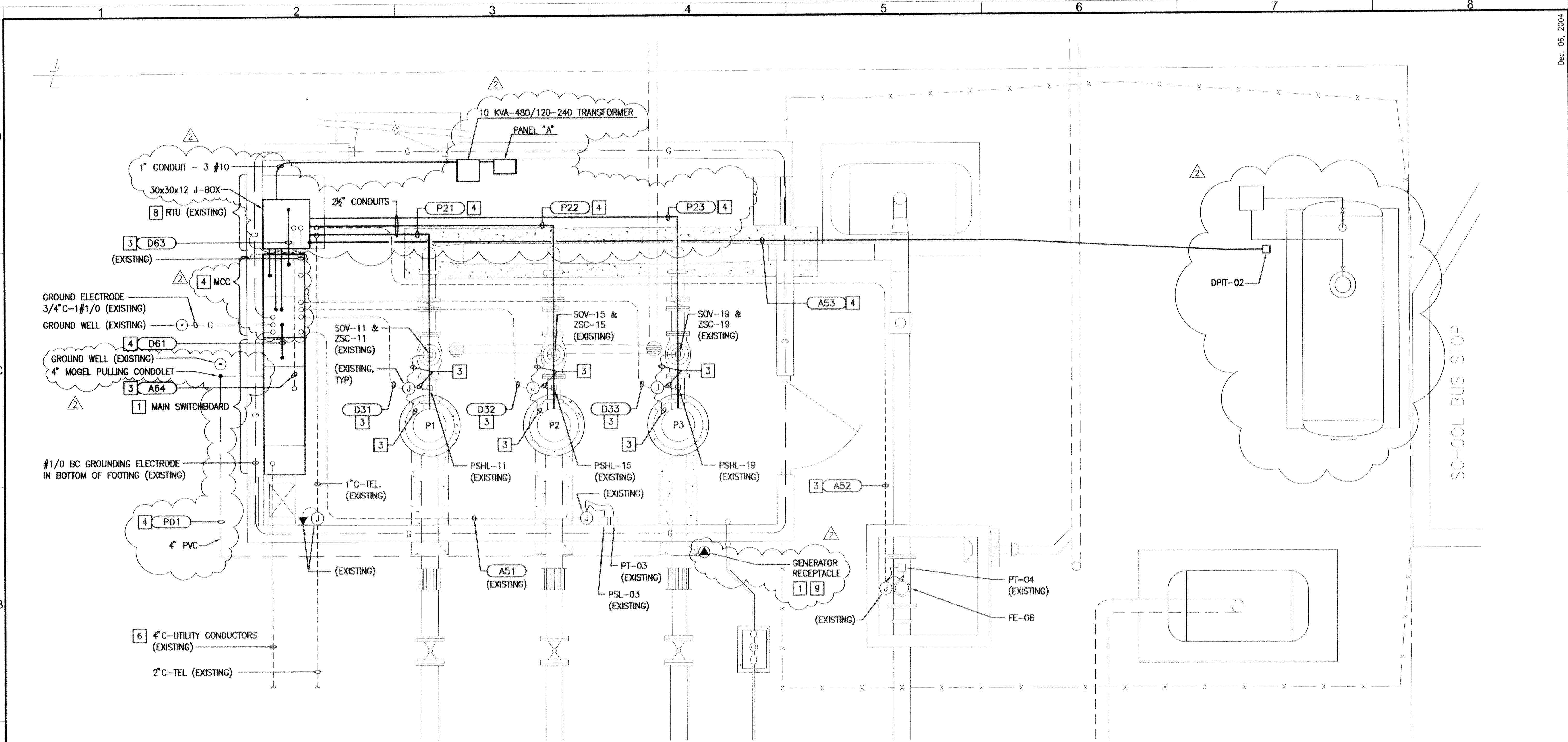
BOYLE
ENGINEERING CORPORATION

5851 Thille St., Suite 201
Ventura, California 93003
805-644-9704
WWW.BOYLEENGINEERING.COM



LAS VIRGENES MUNICIPAL WATER DISTRICT JED SMITH PUMP STATION UPGRADE		DRAWING E-3
SINGLE LINE - UPGRADE		SHEET 7
		OF - SHEETS E-003.dwg

08914-01



ELECTRICAL POWER PLAN ⁷

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

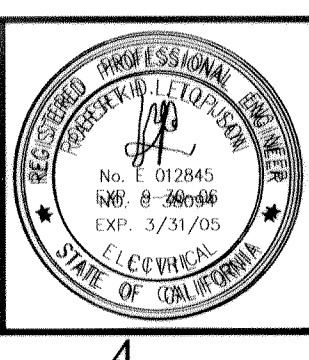
1

- NOTES:
- 1 REPLACE WITH NEW.
 - 2 (NOT USED)
 - 3 REMOVE EXISTING CONDUCTORS, REUSE EXISTING CONDUIT FOR NEW CONDUCTORS.
 - 4 NEW.
 - 5 (NOT USED)
 - 6 SCE TO REPLACE CONDUCTORS.
 - 7 SEE MSO DRAWINGS FOR COMPLETE INSTRUMENT TAG NUMBERS, FIRST 3 DIGITS HAVE BEEN OMITTED ON THESE DRAWINGS FOR SIMPLICITY.
 - 8 NEW FLOW TRANSMITTER FIT-06 TO BE MOUNTED ON RTU.
 - 9 MOUNT ON NEW AJAC BOX.

DWG: F:\LVMWD\011207 - JED Smith PS Expansion\CAD\Present\E-004.dwg USER: acdavis
 DATE: Jun 08, 2006 4:02pm XREFS: g=00 PS SITE doc=rsr-atomp IMAGES: LVMWD_graphics.tif

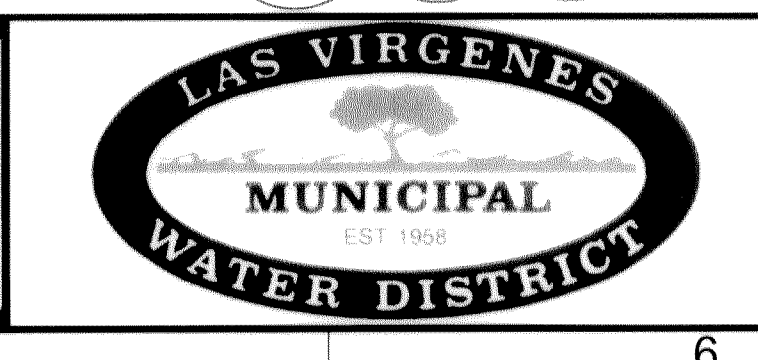
REV	DATE	DESCRIPTION	PLT
4-28-06	AS BUILT		
12-1-04	100% SUBMITTAL		

DESIGNED BY	PLT	PROJECT ENGINEER	PARSEKH L. TOPJIAN
DRAWN BY	DMD	REG. NUMBER	E 012845
CHECKED BY	PLT	EXP. DATE	9-30-06
DATE	9/10/04	PROJECT NUMBER	
		CADD STANDARDS	BOYLE



BOYLE
ENGINEERING CORPORATION

5851 Thille St. Suite 201
Ventura, California 93003
805-644-9704
WWW.BOYLEENGINEERING.COM



LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION UPGRADE

ELECTRICAL POWER PLAN

DRAWING	E-4
SHEET	8
OF SHEETS	
E-004.dwg	

08915-01

NAME: A		FED FROM: XFMR TA		MOUNTING: IN MCC		ENCLOSURE: NEMA 1	
BUS (Amps): 100		VOLTAGE, Ph, W: 120/240, 1-Ph, 3-W		MAIN (Amps): 50 / 2P		KAIC: 10	
LOCATION: PUMP ROOM				ADDITIONAL FEATURE:			
DESCRIPTION		LOAD VA		BRKR		DESCRIPTION	
		A	B	TRIP	P	REF	
INTERIOR LIGHTS		700		7	20	1	RECEPTACLES
EXTERIOR LIGHTS			400	4	20	1	SPARE
RTU		600		1	15	2	EXHAUST FAN
SPARE			600			7	CONTROLS
SPARE		1,000		20	1	9	SPARE
SPARE			1,000	20	1	11	SPARE
SPARE				20	1	13	SPARE
SPARE				20	1	15	SPARE
SPARE				20	1	17	SPARE
SPARE				20	1	19	SPARE
SPARE				20	1	21	SPARE
SPARE				20	1	23	SPARE
TOTAL VA (Odd Ckts)/ PH		2,300	2,000				TOTAL VA (Even Ckts)/ PH
TOTAL VA (All Ckts)/ PH + 25% OF CONTINUOUS LOADS/ PH		4,900	4,100				TOTAL VA (ALL Ckts)/ PH
25% OF ALL CONTINUOUS LOADS =		VA,		TOTALS + 25% OF CONTINUOUS LOADS =		9,000	VA, AVERAGE AMPS/PH=
						38	A

NOTES
 1- VA SUMS AND AVERAGES ARE ROUNDED TO THE NEAREST: 10 VA.
 2- 'QTY' INDICATES NUMBER OF POWER CONSUMING OUTLETS CONNECTED TO THAT CIRCUIT.
 3- 'M' IN THE 'NOTES' COLUMN, IF USED, INDICATES THAT RELEVANT BRANCH BREAKER IS USED AS MAIN BRKR.
 4- 'X' IN THE 'NOTES' COLUMN, IF USED, INDICATES THAT LOAD IN THAT CIRCUIT IS CONTINUOUS.

EXISTING PANEL SCHEDULE A 1

CONDUIT RUN RE	CONDUIT SIZE	CONDUCTORS PER CONDUIT			FROM	TO	REMARKS
		QTY	SIZE	GND			
P01	4"	4	500kcmil		GEN RECEPTACLE	TRANSFER SWITCH	USE WELDING WIRES
P21	2-1/2"	3	#4/0	#4	MCC	P-1	
P22	2-1/2"	3	#4/0	#4	MCC	P-2	
P23	2-1/2"	3	#4/0	#4	MCC	P-3	
D31	1-1/2"	8	#14		MCC	PSHL-11, ZSC-11, SOV-11, TS-11	
		2	#12			SPACE HEATER	
D32	1-1/2"	8	#14		MCC	PSHL-15, ZSC-15, SOV-15, TS-15	
		2	#12			SPACE HEATER	
D33	1-1/2"	8	#14		MCC	PSHL-19, ZSC-19, SOV-19, TS-19	
		2	#12			SPACE HEATER	
A51	3/4"	2	#12	#12	MCC	PSL-03	
		1	#18TSP			PT-03	
A52	3/4"	1	#18TSP		RTU	PT-04	
		1	(REMARKS)			FE-06	USE MANUFACTURER-PROVIDED CABLE (3/8" OD)
		1		#10			
A53	3/4"	1	#18TSP		RTU	DPTT-02	
D61	3/4"	6	#14		SERVICE SWITCHBOARD	MCC	
D63	1"	12	#14		MCC	RTU	INCLUDES 2 WIRES FROM STARTERS
A64	3/4"	4	#14		SERVICE SWITCHBOARD	RTU	
		1	#18TSP				

CONDUIT SCHEDULE 2

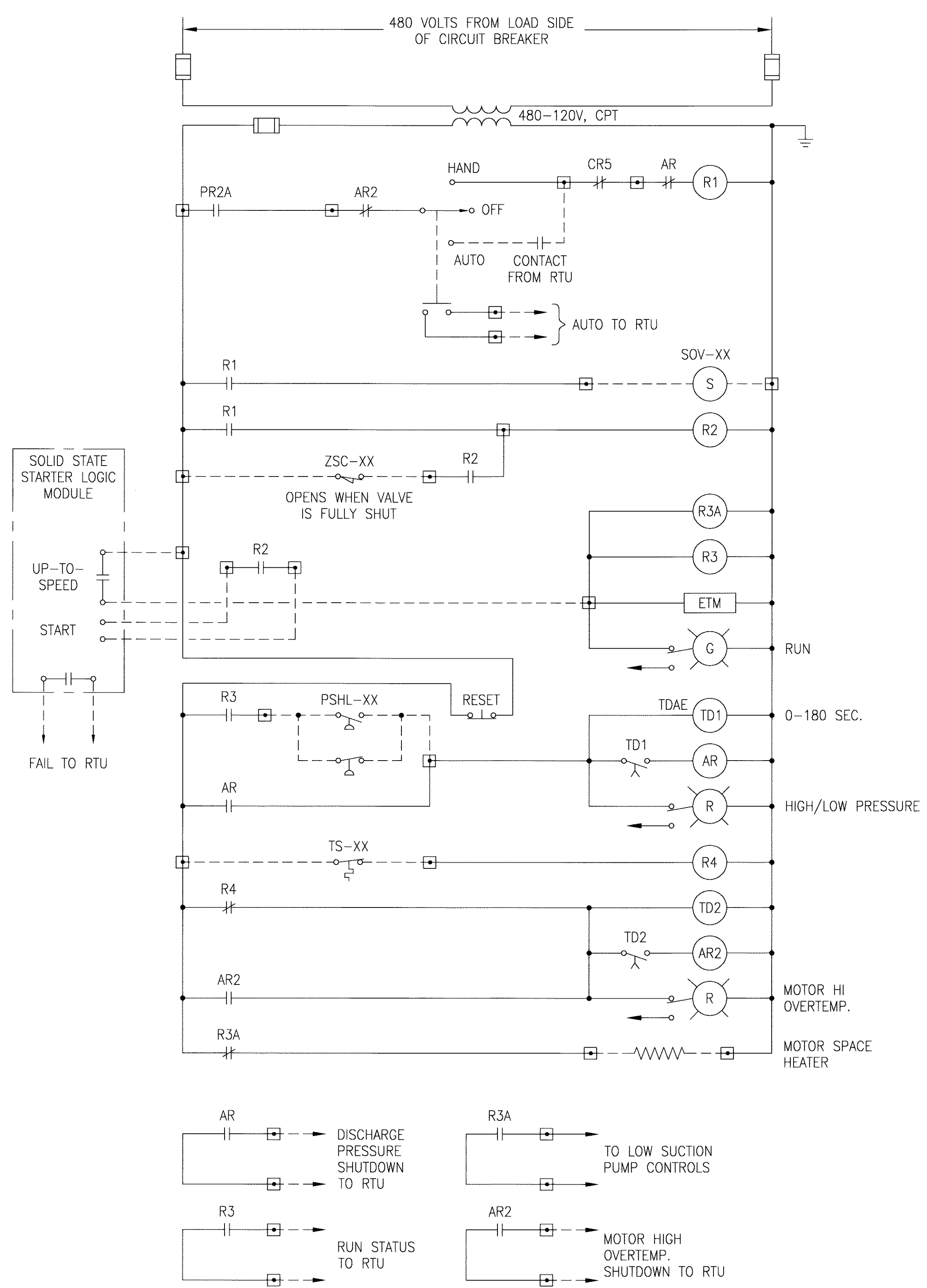
DWG: F:\JMWD\0210201 - JED Smith PS Expansion\CAD\Sheet\E-005.dwg USER: dphnks
 DATE: Jun 28, 2006 4:00pm XREFS: pchd abn-rcr-100mg
 IMAGES: JMWD_logo.dwg

5-16-06 RECORD DRAWING 12-1-04 100% SUBMITTAL	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DESIGNED BY: PLT DRAWN BY: DMD CHECKED BY: PLT DATE: 9/10/04	PROJECT ENGINEER: PARSEKH L. TOPJIAN REG. NUMBER: E 012845 EXP. DATE: 9-30-06 PROJECT NUMBER: CADD STANDARDS BOYLE				LAS VIRGENES MUNICIPAL WATER DISTRICT JED SMITH PUMP STATION UPGRADE	ELECTRICAL CONDUIT AND PANEL SCHEDULES	DRAWING: E-5 SHEET: 9 OF: SHEETS E-005.dwg
--	--	---	--	--	--	--	---	--	---

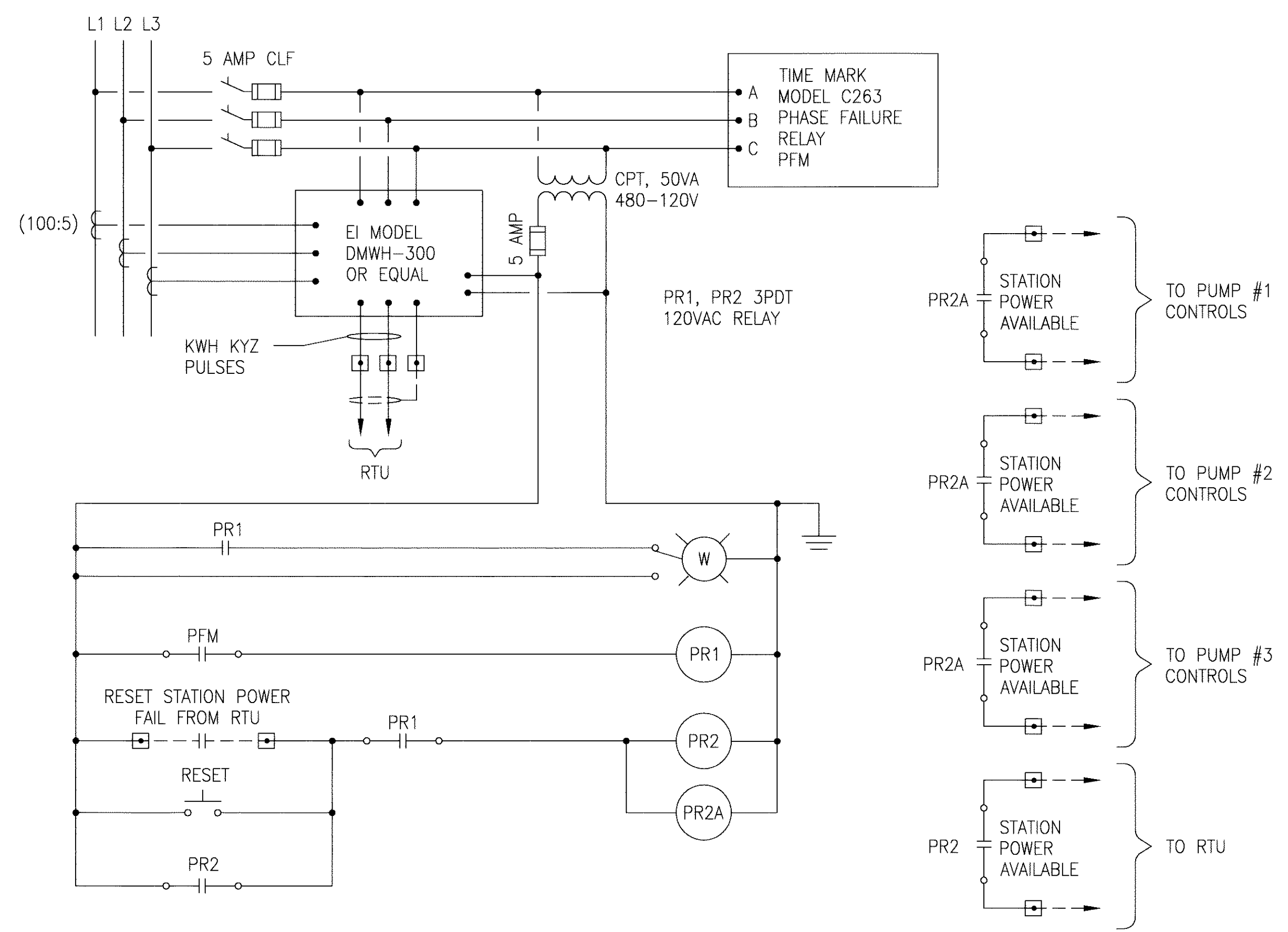
08916-01

May 16, 2006

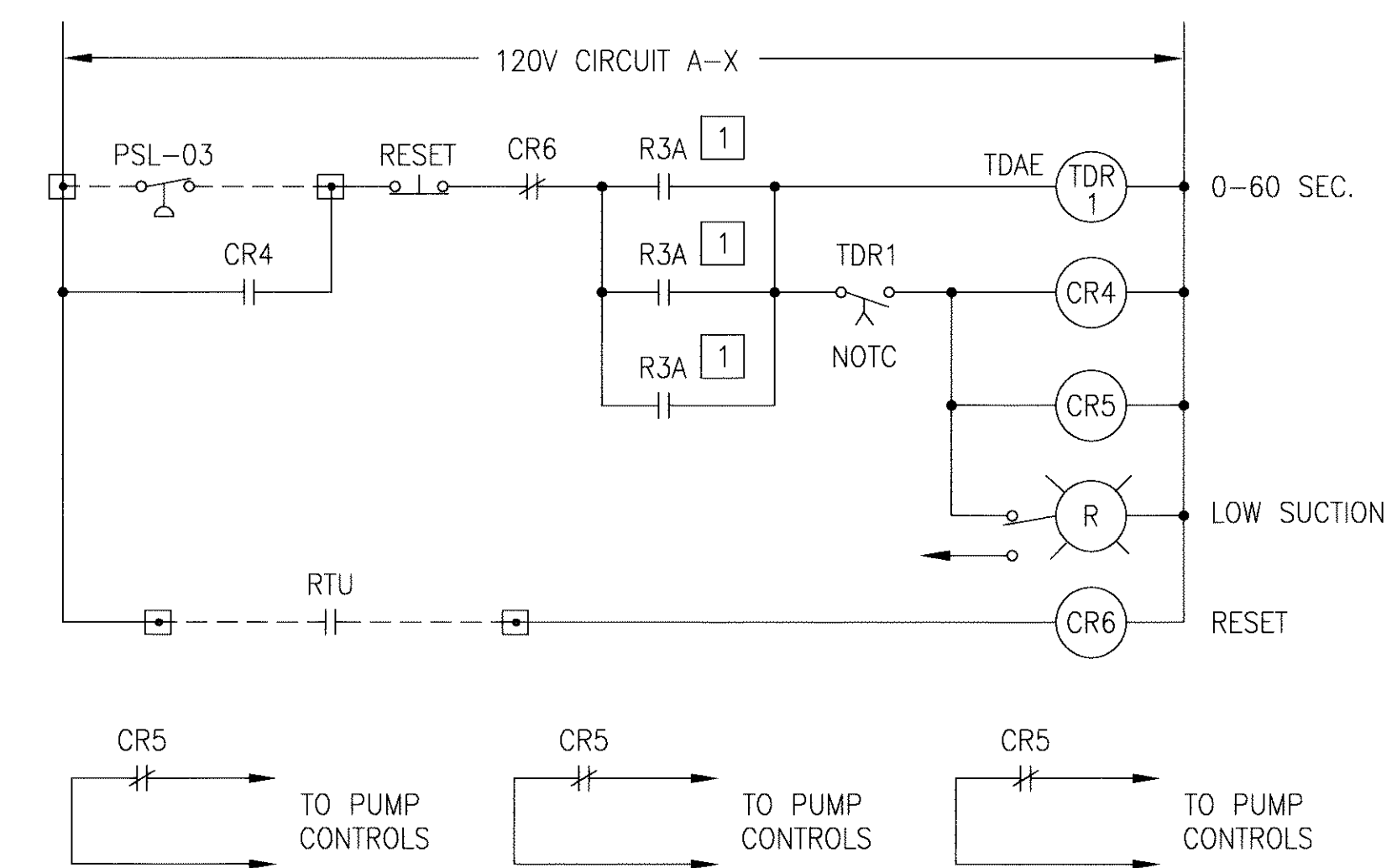
Dec. 06, 2004



PUMP CONTROL SCHEMATIC DIAGRAM (MODIFICATIONS) 2
 (TYPICAL OF 3) 1



STATION POWER METER AND MONITORING SCHEMATIC DIAGRAM (NEW) 2



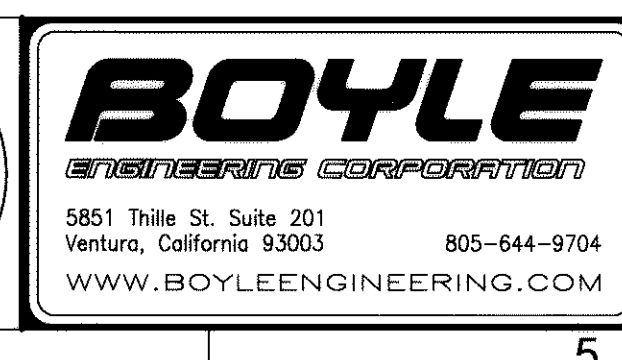
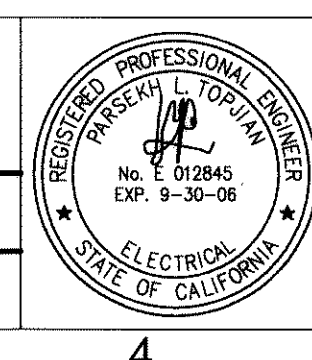
MCC LOW SUCTION CONTROLS SCHEMATIC DIAGRAM (MODIFICATIONS) 3

- NOTES:
- 1 FROM STARTERS OF MOTORS.
 - 2 SEE DRAWING E-2 FOR EXISTING CONTROL SCHEMATIC.

DWS: F:\elison\10219201 - Jed Smith PS Expansion\CAO\Plummet\E-006.dwg
 DATE: Feb 25, 2005 8:25am
 USER: gdeve
 IMAGES: L:\MWD_groves\atf
 XREFS: g-bd
 dm-rcr-stmp

REV	DATE	DESCRIPTION	PLT	APPR
12-1-04		100% SUBMITTAL		

DESIGNED BY	PLT	PROJECT ENGINEER	PARSEKH L. TOPJIAN
DRAWN BY	DMD	REG NUMBER	E 012845
CHECKED BY	PLT	EXP DATE	9-30-06
DATE	9/10/04	PROJECT NUMBER	
		CADD STANDARDS	BOYLE

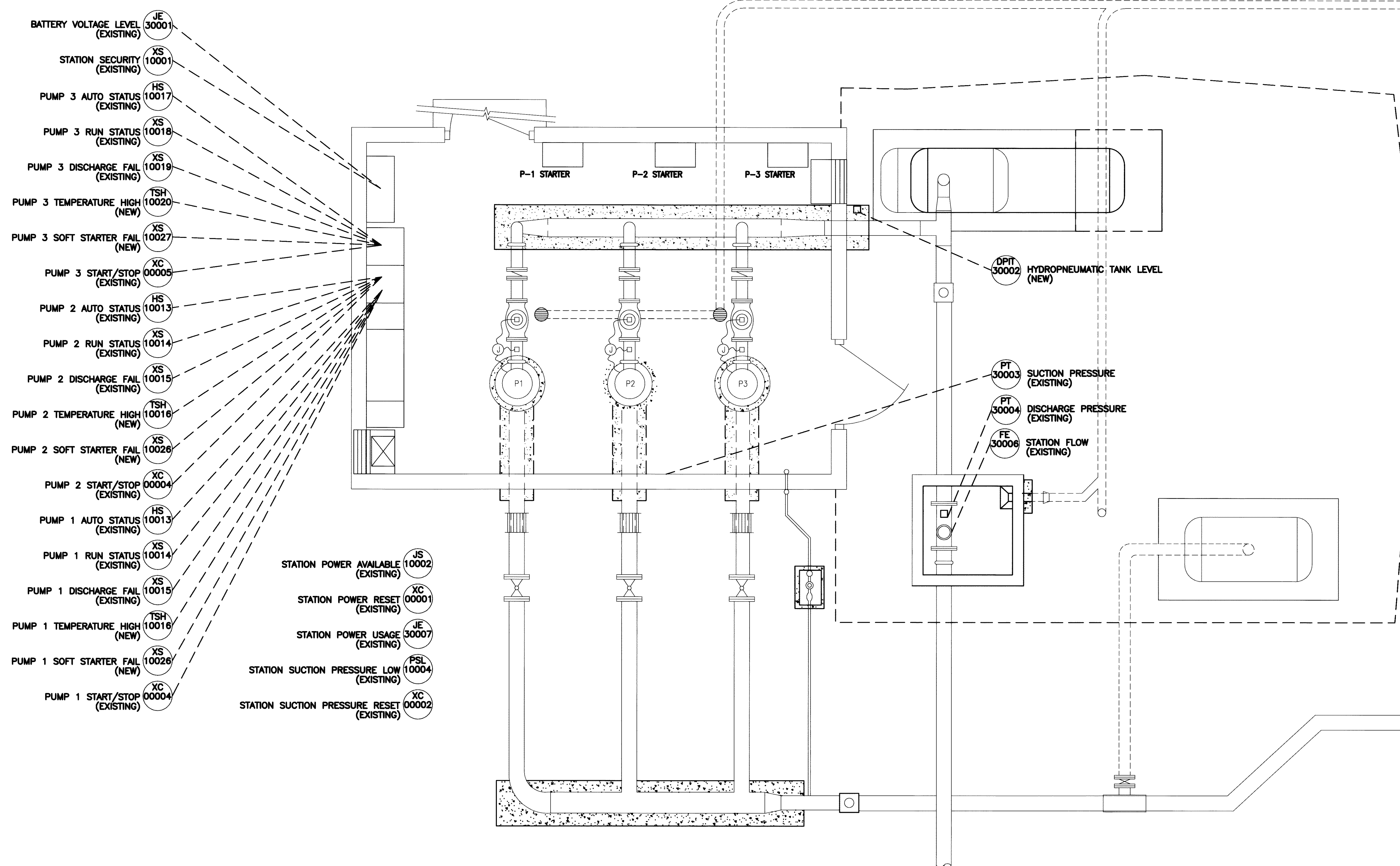


08917

LAS VIRGENES MUNICIPAL WATER DISTRICT
 JED SMITH PUMP STATION UPGRADE

CONTROL SCHEMATIC DIAGRAM
 UPGRADE

DRAWING	E-6
SHEET	10
OF SHEETS	
E-006.dwg	



- BATTERY VOLTAGE LEVEL (EXISTING) (JE 30001)
- STATION SECURITY (EXISTING) (XS 10001)
- PUMP 3 AUTO STATUS (EXISTING) (HS 10017)
- PUMP 3 RUN STATUS (EXISTING) (XS 10018)
- PUMP 3 DISCHARGE FAIL (EXISTING) (XS 10019)
- PUMP 3 TEMPERATURE HIGH (NEW) (TSH 10020)
- PUMP 3 SOFT STARTER FAIL (NEW) (XS 10027)
- PUMP 3 START/STOP (EXISTING) (XC 00005)
- PUMP 2 AUTO STATUS (EXISTING) (HS 10013)
- PUMP 2 RUN STATUS (EXISTING) (XS 10014)
- PUMP 2 DISCHARGE FAIL (EXISTING) (XS 10015)
- PUMP 2 TEMPERATURE HIGH (NEW) (TSH 10016)
- PUMP 2 SOFT STARTER FAIL (NEW) (XS 10026)
- PUMP 2 START/STOP (EXISTING) (XC 00004)
- PUMP 1 AUTO STATUS (EXISTING) (HS 10013)
- PUMP 1 RUN STATUS (EXISTING) (XS 10014)
- PUMP 1 DISCHARGE FAIL (EXISTING) (XS 10015)
- PUMP 1 TEMPERATURE HIGH (NEW) (TSH 10016)
- PUMP 1 SOFT STARTER FAIL (NEW) (XS 10026)
- PUMP 1 START/STOP (EXISTING) (XC 00004)

- STATION POWER AVAILABLE (EXISTING) (JS 10002)
- STATION POWER RESET (EXISTING) (XC 00001)
- STATION POWER USAGE (EXISTING) (JE 30007)
- STATION SUCTION PRESSURE LOW (EXISTING) (PSL 10004)
- STATION SUCTION PRESSURE RESET (EXISTING) (XC 00002)

- DPT 30002 HYDROPNEUMATIC TANK LEVEL (NEW)
- PT 30003 SUCTION PRESSURE (EXISTING)
- PT 30004 DISCHARGE PRESSURE (EXISTING)
- FE 30006 STATION FLOW (EXISTING)

08918

MSO 11/12/2004
 SCALES ARE APPROXIMATE, USE AS GUIDELINE ONLY.
 0 1/2 1 2 3 4
 GRAPHIC SCALE - FULL INCHES ON ORIGINAL

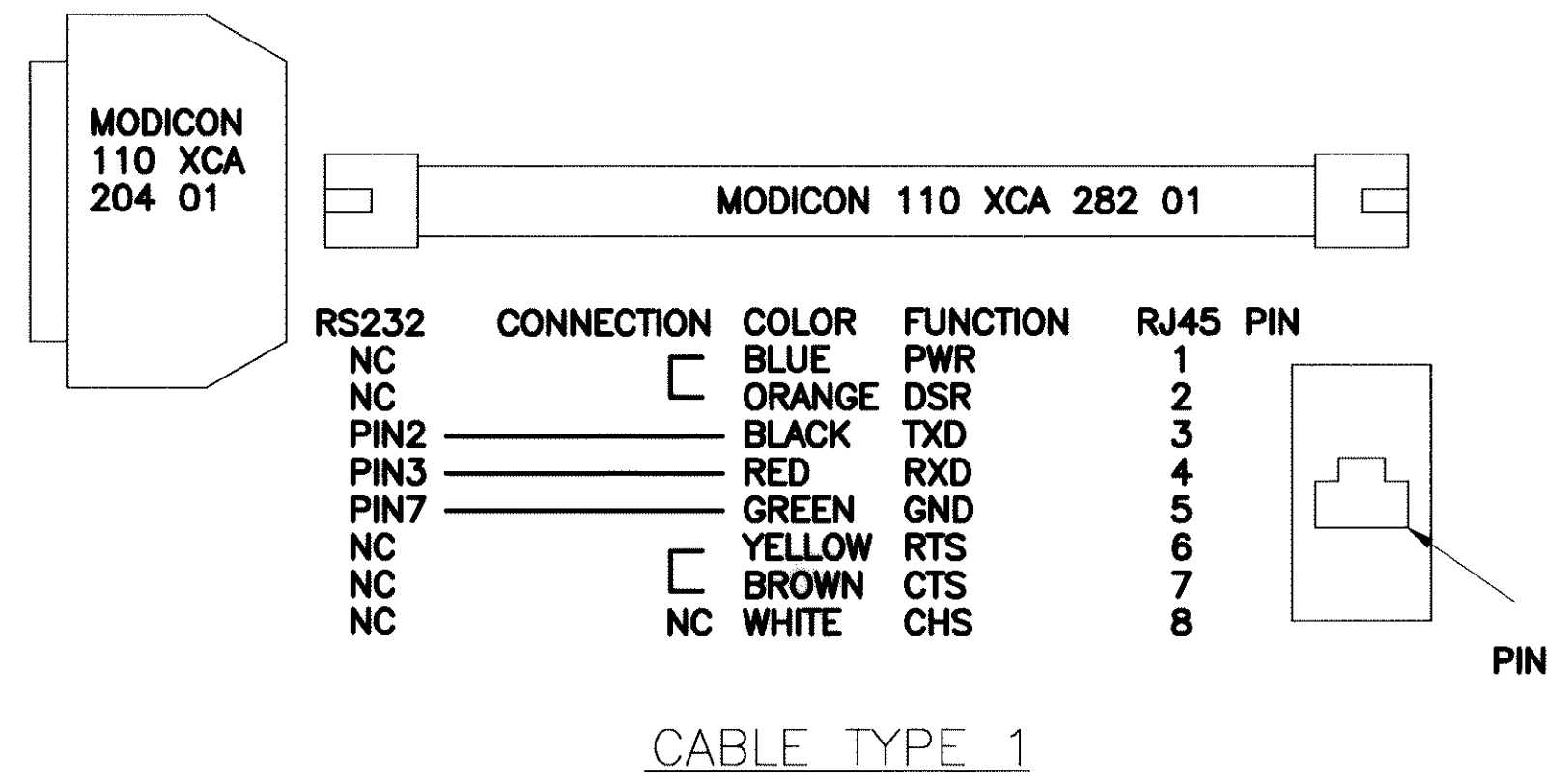


17752 Mitchell, Suite E
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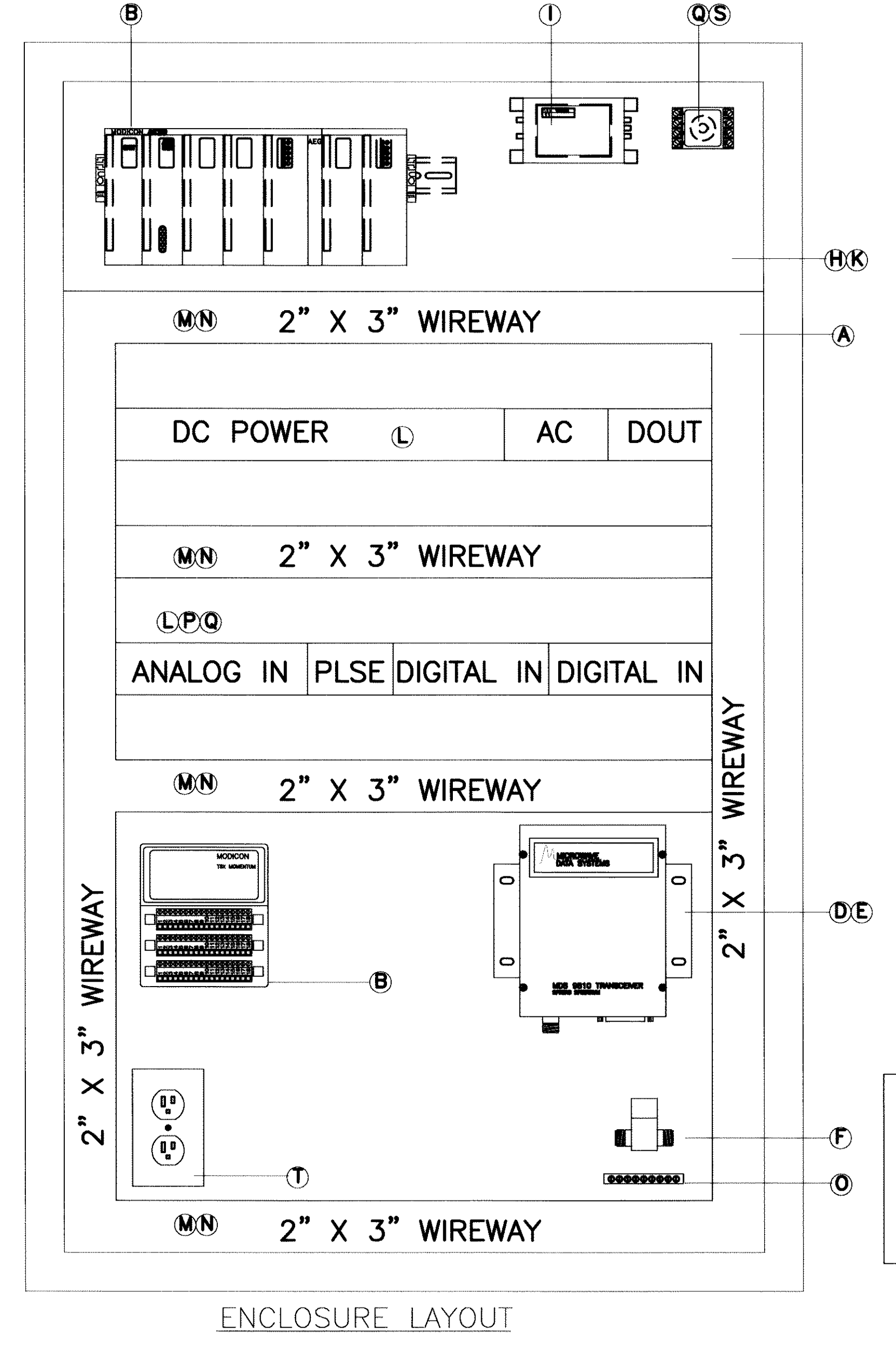
LAS VIRGENES MUNICIPAL WATER DISTRICT
 JED SMITH PUMP STATION
 EQUIPMENT LOCATION DIAGRAM

ISSUE No.	ISSUE DATE	DRWN BY	DES'D BY	CHK'D BY	ISSUED FOR
1	12/1/04	LFT	LFT		100% SUBMITTAL

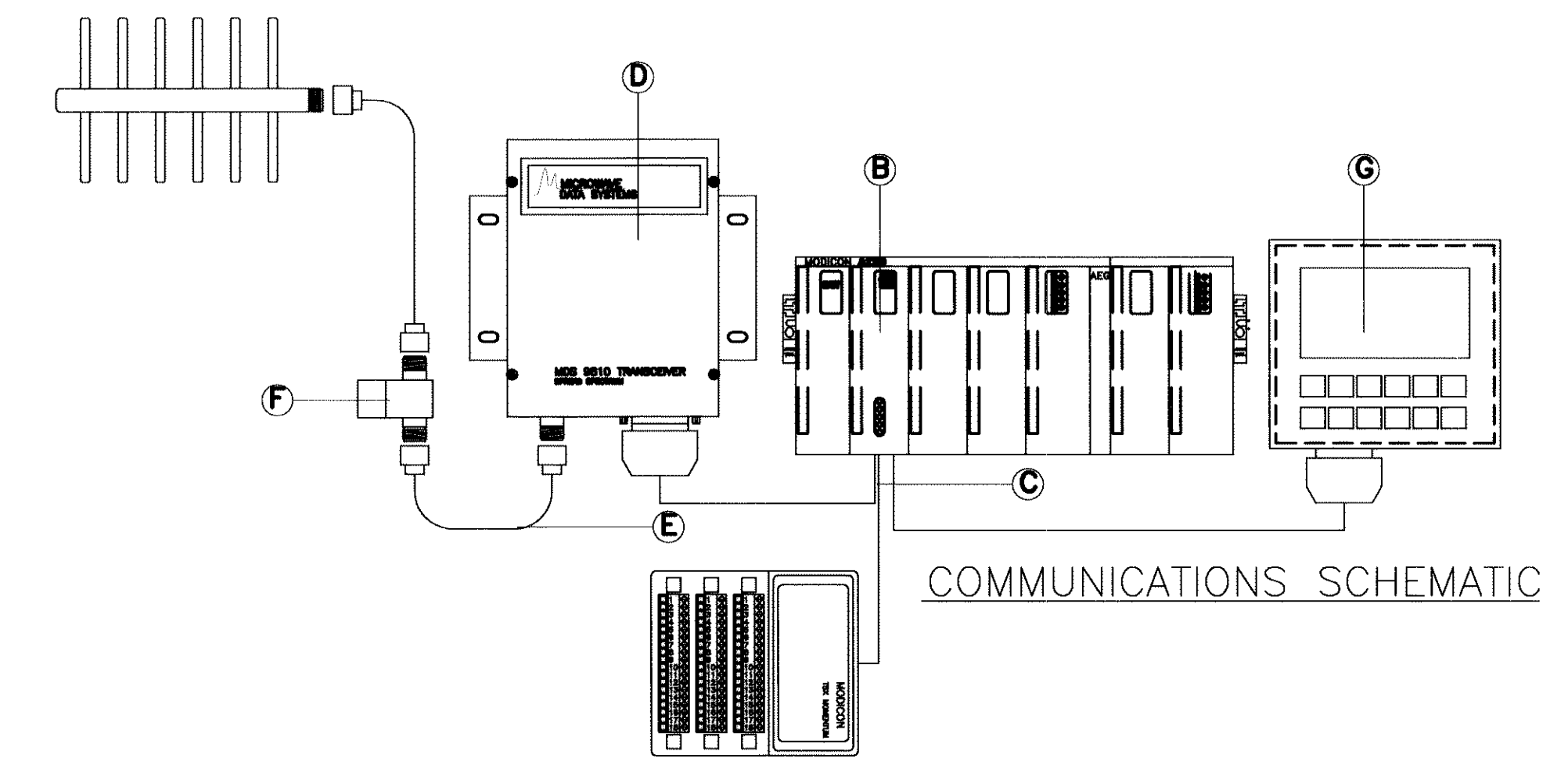
SHEET 1 OF 5
DRAWING No. 1217-001
JOB No. 1217
SCALE: NONE UNLESS NOTED OTHERWISE BY A SPECIFIC DETAIL



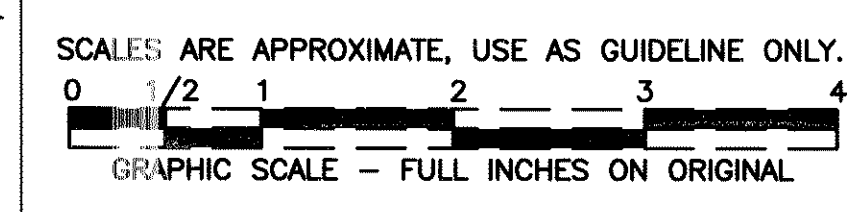
PANEL PARTS LIST			
ITEM	QUANTITY	DESCRIPTION	MANUFACTURER, PART NUMBER
A	1	ENCLOSURE BACK PLATE	HOFFMAN A-48P30
B	1	PROGRAMMABLE LOGIC CONTROLLER	MODICON PC-E984-275
	1	PLC PRIMARY RACK	MODICON AS-HDTA-200
	1	PLC SECONDARY RACK	MODICON AS-HDTA-202
	1	ANALOG INPUT MODULE, 4 PT	MODICON AS-BADU-206
	1	COUNTER INPUT MODULE, 4 PT	MODICON AS-BZAE-204
	2	DIGITAL INPUT MODULE, 16 PT	MODICON AS-BDEP-216
	1	RELAY OUTPUT MODULE, 8 PT	MODICON AS-BDAP-208
	1	MOMENTUM COUNTER BASE	MODICON 170 AEC 920 00
	1	MOMENTUM MODBUS PLUS ADAPTER	MODICON 171 PNN 210 22
	1	MOMENTUM SCREW TERMINALS	MODICON 170 XTS 001 00
	1	MODBUS PLUS TERMINATORS	MODICON AS-MBKT-185
	2	MODBUS PLUS INLINE CONNECTORS	MODICON AS-MBKT-185
	1	MODBUS PLUS CABLE	BELDEN 9841
C	2	SERIAL CABLE CONNECTOR DB25/RJ45	MODICON 110 XCA 204 01
	2	SERIAL CABLE RJ45, 3 FEET	MODICON 110 XCA 282 01
D	1	SPREAD SPECTRUM RADIO	MDS 9810
F	1	PANEL RADIO JUMPER CABLE	ANDREWS VFX1-NMNM-3
F	1	RADIO SURGE PROTECTOR	POLYPHASER IS-B50LN-C2
G	1	PANEL INTERFACE DISPLAY	GENERAL ELECTRIC IC752DPK000
H	1	POWER SUPPLY, 15 VDC, 100W	VICOR VI-LF2-CW
I	1	DC/DC CONVERTER 12/24 50 W	VICOR VI-LO3-CY
J	1	BATTERY, 12 VDC SEALED LEAD ACID	DYNASTY UPS12-170
K	1	RESISTOR, 100K OHMS, 1W, 1.0%	DALE RS-2B 100K 1.0
L	30	FUSE TERMINALS	ALLEN BRADLEY 1492-H6
	3	FUSE TERMINALS END PLATES	ALLEN BRADLEY 1492-37
	3	FUSE TERMINALS JUMPER BARS	ALLEN BRADLEY 1492-N49
	180	FEED THRU TERMINALS	ALLEN BRADLEY 1492-W3
	6	FEED THRU TERMINALS ENDPLATES	ALLEN BRADLEY 1492-EB3
	10	FEED THRU TERMINALS JUMPER BARS	ALLEN BRADLEY 1492-CJ510
	12	FEED THRU TERMINALS JUMPER BARS	ALLEN BRADLEY 1492-CJ52
	4	DISCONNECT TERMINALS	ALLEN BRADLEY 1492-WKD3
	6	GROUND TERMINALS	ALLEN BRADLEY 1492-WG4
	10	TERMINAL STRIP END BARRIER	ALLEN BRADLEY 1492-EA35
	2	TERMINAL STRIP	WEIDMULLER 996497
	10	TERMINAL STRIP SUPPORT BLOCKS	WEIDMULLER 049492
M	4	WIREWAY 2"X3"X6", WHITE	PANDUIT F-2X3WH6N
N	4	WIREWAY COVER, 2"X6", WHITE	PANDUIT C-2WH6N
O	1	GROUND BAR	
P	3	RESISTOR, 500 OHMS, 3W 1.0%	DALE RS-2B 500 1.0
Q	2	RESISTOR, 10K OHMS, 3W, 1.0%	DALE RS-2B 10K 1.0
R	1	LOW VOLTAGE DISCONNECT RELAY	TIME MARK CORP. 2601-12DC
S	1	LOW VOLTAGE DISCONNECT BASE	TIME MARK CORP. 51X120
T	1	GFI RECEPTACLE	



CONSTRUCTION NOTE:
THE EQUIPMENT ON THIS DRAWING IS EXISTING. ANY MODIFICATIONS ARE DENOTED IN THE CLOUDED AREAS.



08919

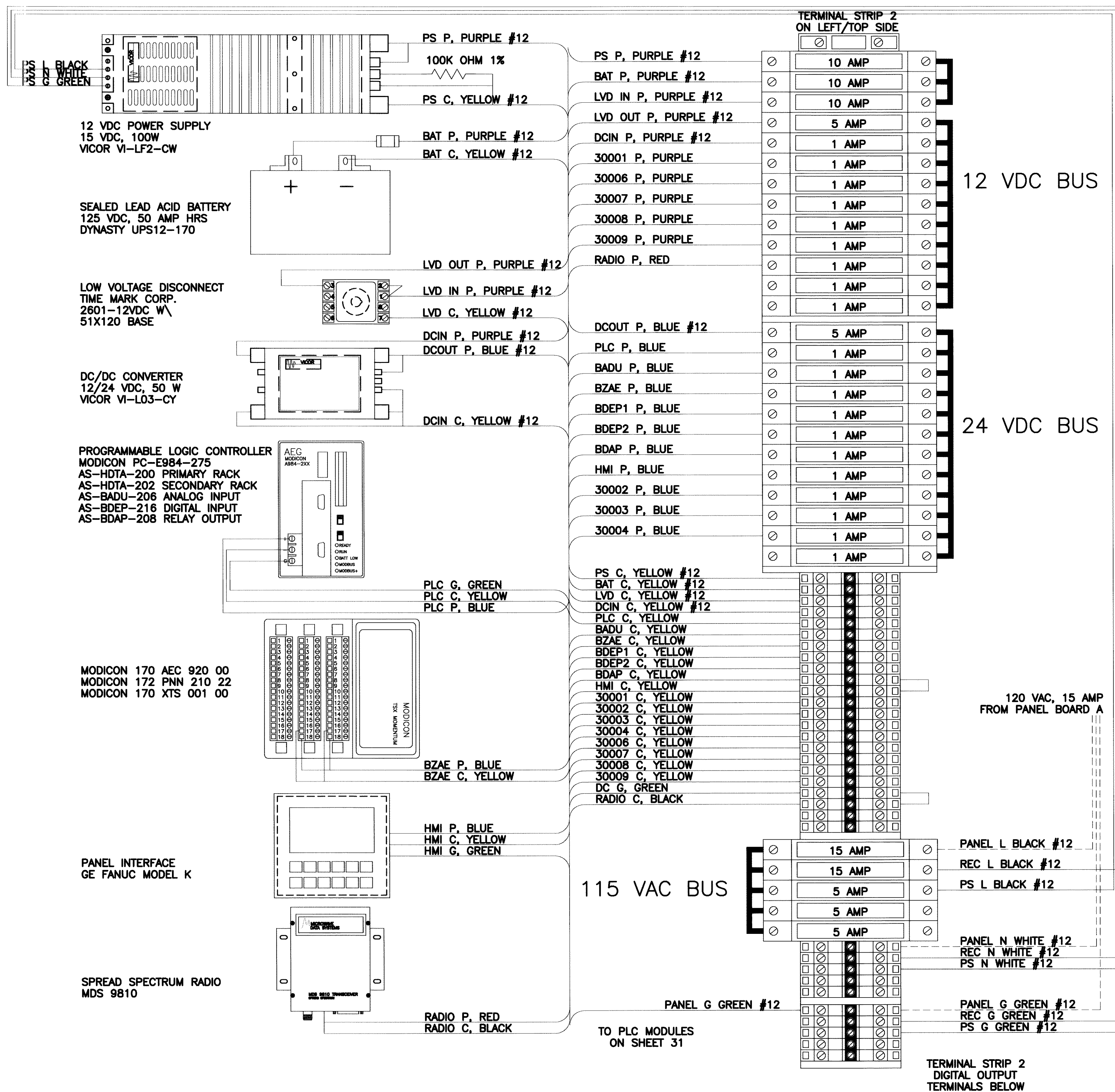


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LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION
CONTROL PANEL LAYOUT, PARTS LIST,
AND COMMUNICATION DETAILS

ISSUE No.	ISSUE DATE	DRWN BY	DES'D BY	CHK'D BY	ISSUED FOR
1	12/1/04	LFT	LFT		100% SUBMITTAL

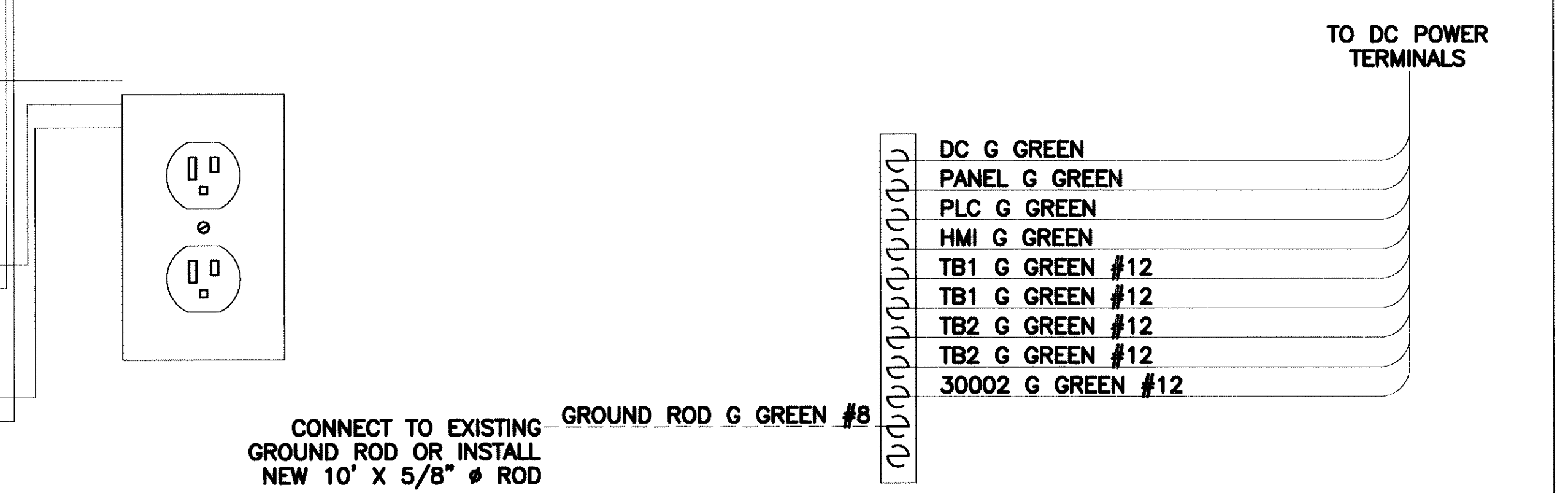
SHEET 2 OF 5
DRAWING No. 1217-002
JOB No. 1217
SCALE: NONE
UNLESS NOTED OTHERWISE BY A SPECIFIC DETAIL



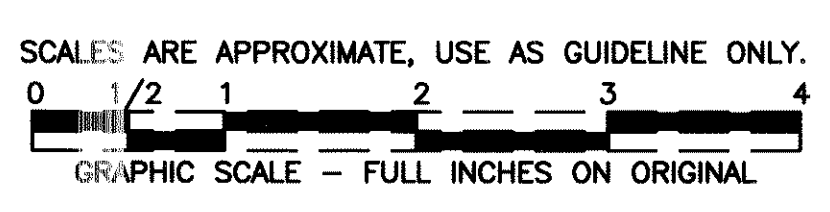
TERMINAL BLOCK TYPES AND PART NUMBERS			
FRONT VIEW	PART NUMBER	MANUFACTURER	DESCRIPTION
	996497	WEIDMULLER	SLOTTED ASSEMBLY RAIL, 35mm
	1492-W3	AB	FEED-THROUGH TERMINAL BLOCK
	1492-EB3	AB	END SECTION FOR FEED THROUGH TERMINAL
	1492-CJ5-10	AB	JUMPER BAR - 10 BLOCKS
	1492-CJ5-2	AB	JUMPER BAR - 2 BLOCKS
	1492-H6	AB	FUSE HOLDER TERMINAL BLOCK 1 1/4" X 1/4" FUSE
	1492-N37	AB	END SECTION FOR FUSE TERMINAL BLOCK
	1492-N49	AB	JUMPER BAR - 10 BLOCKS
	1492-WKD3	AB	DISCONNECT SWITCH TERMINAL BLOCK
	1492-WG4	AB	GROUND TO RAIL TERMINAL BLOCK
	1492-N23	AB	END BRACKET
	EGU 4/24 45946	WEIDMULLER	SURGE PROTECTION TERMINAL BLOCK
	049492	WEIDMULLER	TO SUPPORT TERMINAL RAIL AND ISOLATE TERMINAL STRIP FROM PANEL BACKPLATE MOUNT UNDER TERMINAL RAIL AT 8" INTERVALS

PANEL CONSTRUCTION NOTE: UNLESS OTHERWISE SPECIFIED, ALL INTERIOR CONTROL PANEL WIRING (SHOWN SOLID) SHALL BE #18 AWG THHN OR HW AND ALL FIELD WIRING (SHOWN IN DASHED LINES) SHALL BE #14 AWG w/ TYPE THHN/THWN INSULATION, COLOR AS INDICATED. ALL WIRES UNDER 12 AWG SHALL USE FERRULES IN PANEL TERMINAL WERE APPROPRIATE. ALL WIRES SHALL HAVE HEAT SHRINK WIRE LABELS AS INDICATED; BRADEY PS-187-150W TERMINAL SUPPORT SHALL BE PLACED AT 8" INTERVALS FOR TERMINAL RAILS ONLY.

CONSTRUCTION NOTE: THE EQUIPMENT ON THIS DRAWING IS EXISTING. ANY MODIFICATIONS ARE DENOTED IN THE CLOUDED AREAS.



08920

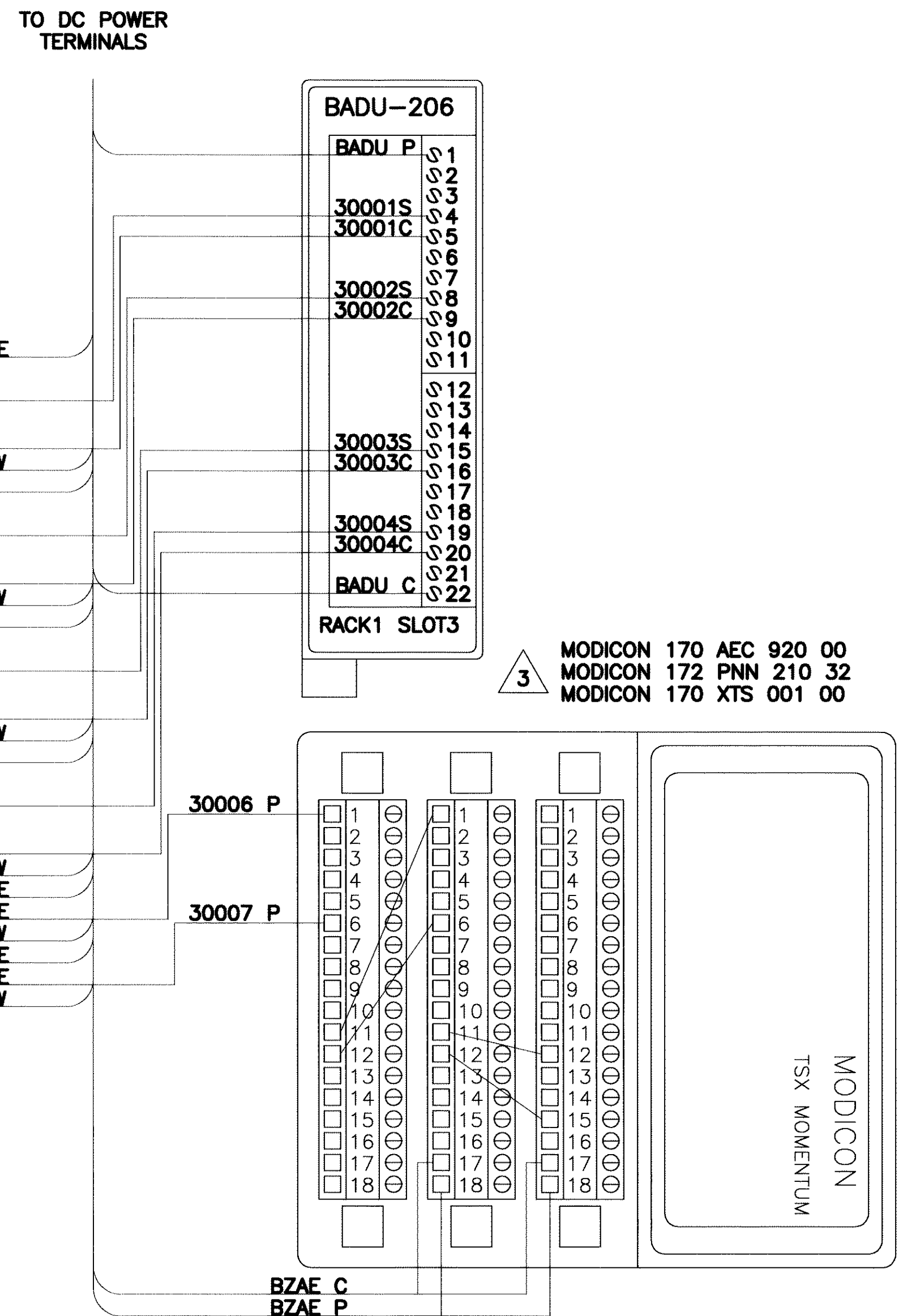
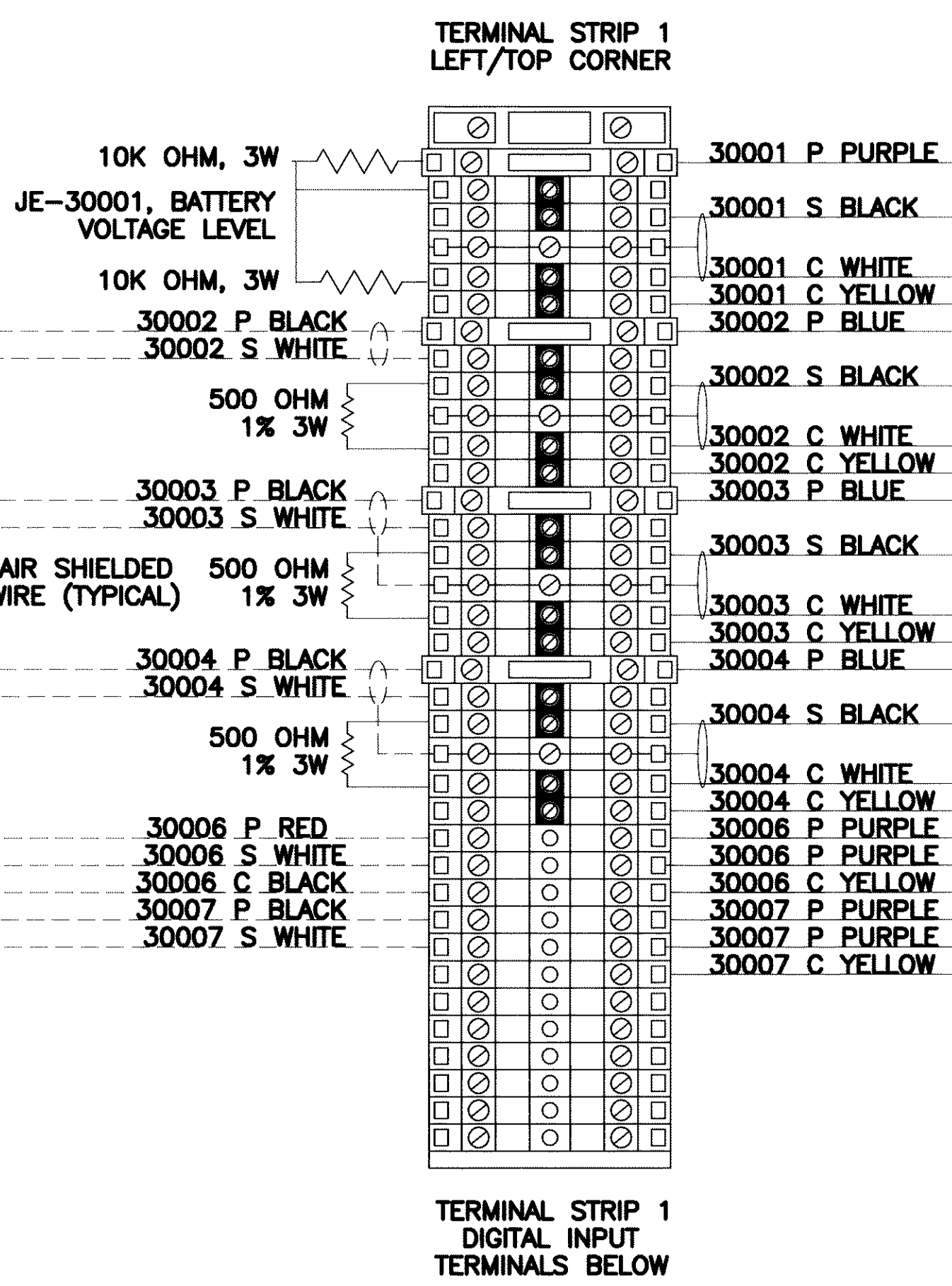
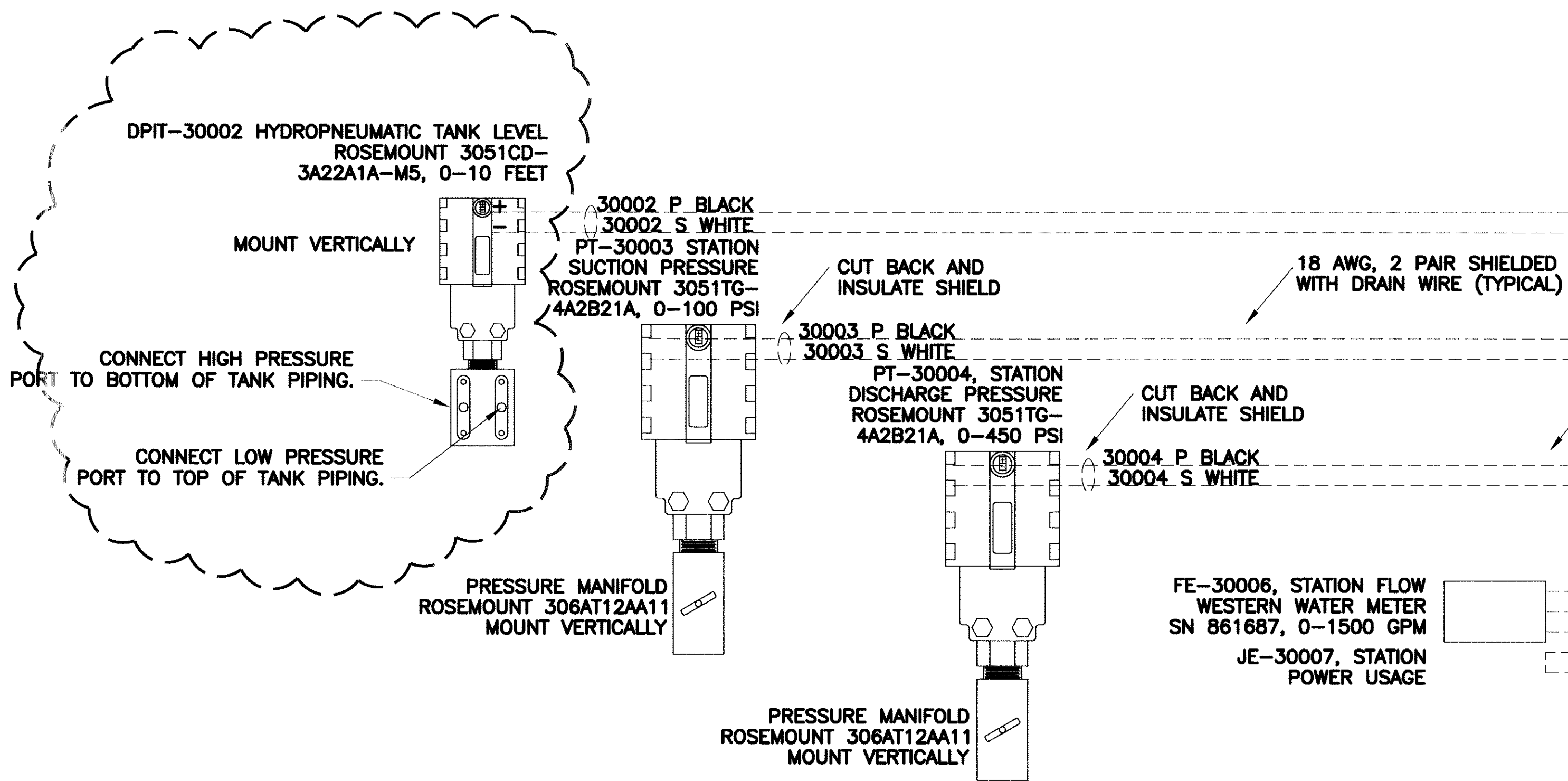


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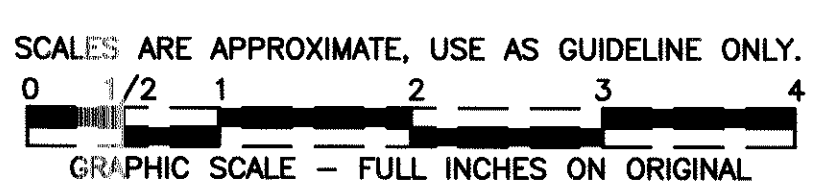
LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION
CONTROL PANEL CONSTRUCTION
AC AND DC POWER WIRING DETAILS

ISSUE No.	ISSUE DATE	DRWN BY	DES'D BY	CHK'D BY	ISSUED FOR
1	12/1/04	LFT	LFT		100% SUBMITTAL

SHEET 3 OF 5
DRAWING No. 1217-003
JOB No. 1217
SCALE: NONE
UNLESS NOTED OTHERWISE BY A SPECIFIC DETAIL



CONSTRUCTION NOTE:
 THE EQUIPMENT ON THIS DRAWING IS
 EXISTING. ANY MODIFICATIONS ARE
 DENOTED IN THE CLOUDED AREAS.



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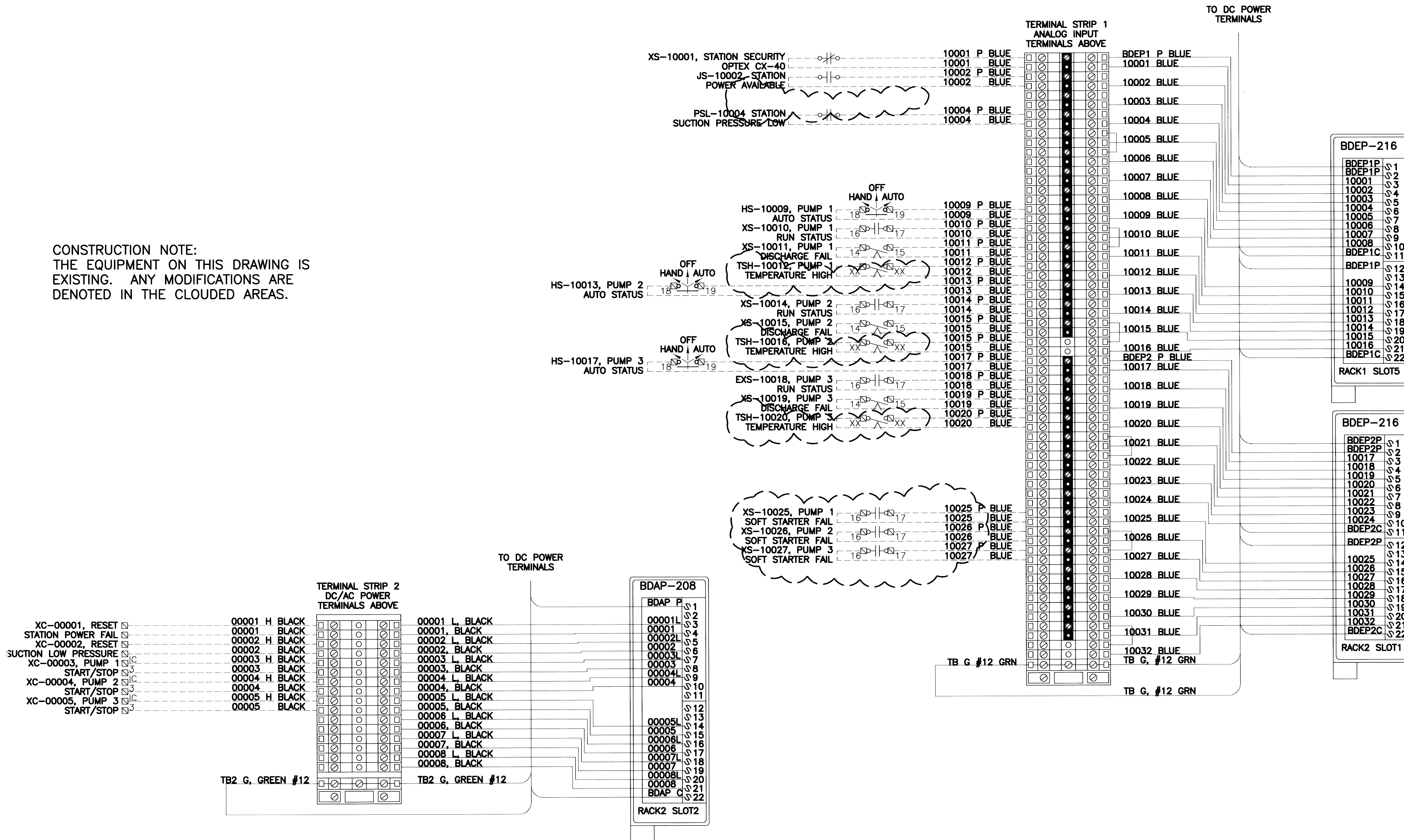
LAS VIRGENES MUNICIPAL WATER DISTRICT
 JED SMITH PUMP STATION
 CONTROL PANEL CONSTRUCTION
 ANALOG INPUT WIRING DETAILS

ISSUE No.	ISSUE DATE	DRWN BY	DES'D BY	CHK'D BY	ISSUED FOR
1	12/17/04	LFT	LFT		100% SUBMITTAL

08921
 SHEET 4 OF 5
 DRAWING No. 1217-004
 JOB No. 1217
 SCALE: NONE
 UNLESS NOTED OTHERWISE
 BY A SPECIFIC DETAIL

MSO 11/12/2004 1217-004.dwg

CONSTRUCTION NOTE:
THE EQUIPMENT ON THIS DRAWING IS
EXISTING. ANY MODIFICATIONS ARE
DENOTED IN THE CLOUDED AREAS.



08922

MSO 11/12/2004
1217-005.dwg
SCALES ARE APPROXIMATE, USE AS GUIDELINE ONLY.
0 1/2 1 2 3 4
GRAPHIC SCALE - FULL INCHES ON ORIGINAL

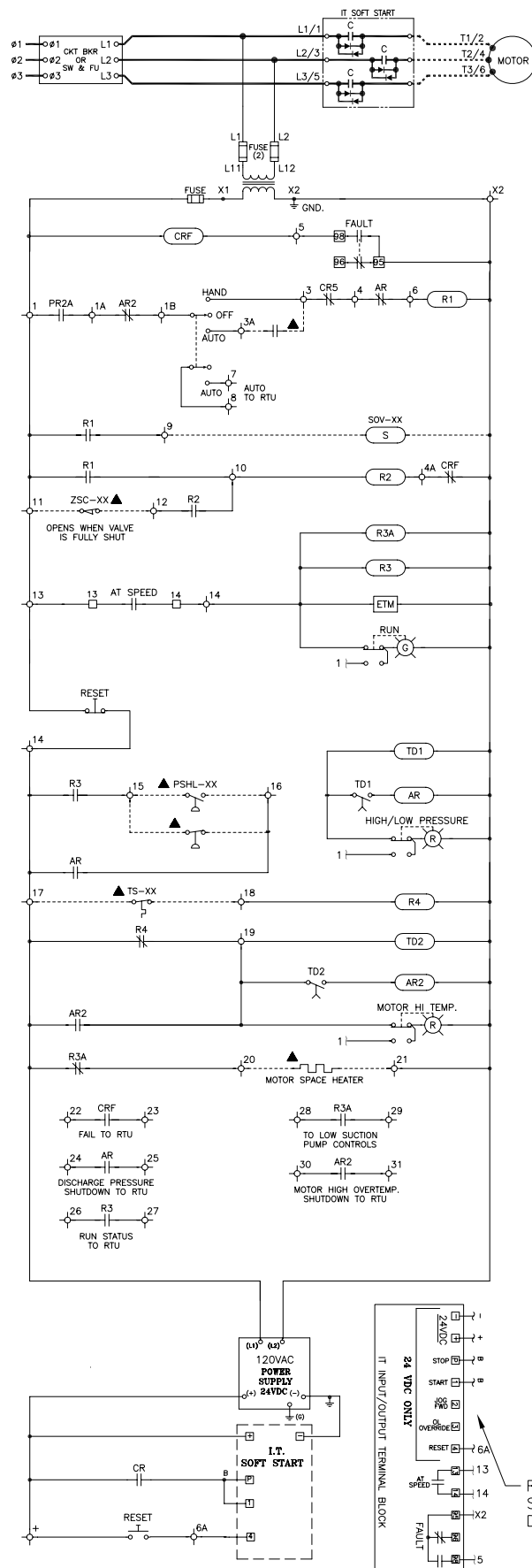


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Irvine, CA 92614 PH. (949) 250-8668
2985 East Hillcrest Drive, Suite 101
Thousand Oaks, CA 91362 PH. (805) 379-8668

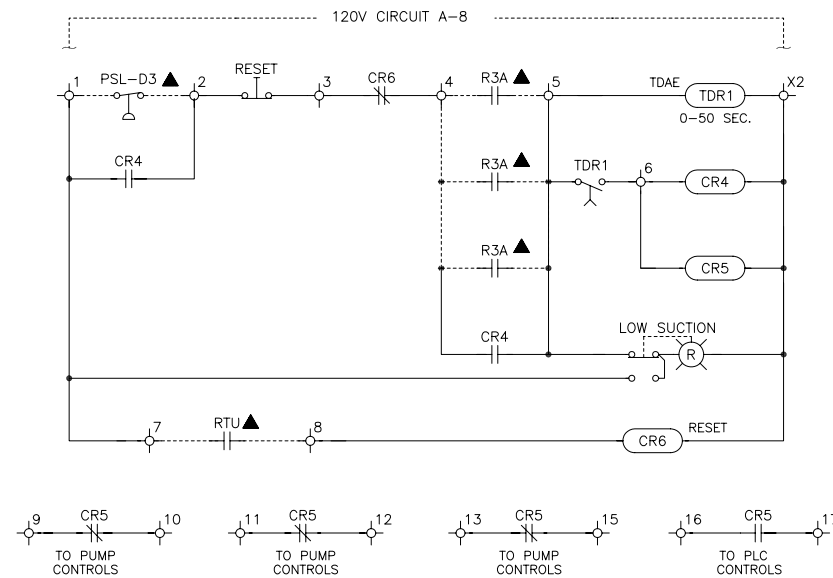
LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION
PLC CONTROL PANEL WIRING
DIGITAL INPUT & OUTPUT WIRING DETAILS

ISSUE No.	ISSUE DATE	DRWN BY	DES'D BY	CHK'D BY	ISSUED FOR
1	12/1/04	LFT	LFT		100% SUBMITTAL

SHEET 5 OF 5
DRAWING No. 1217-005
JOB No. 1217
SCALE: NONE UNLESS NOTED OTHERWISE BY A SPECIFIC DETAIL

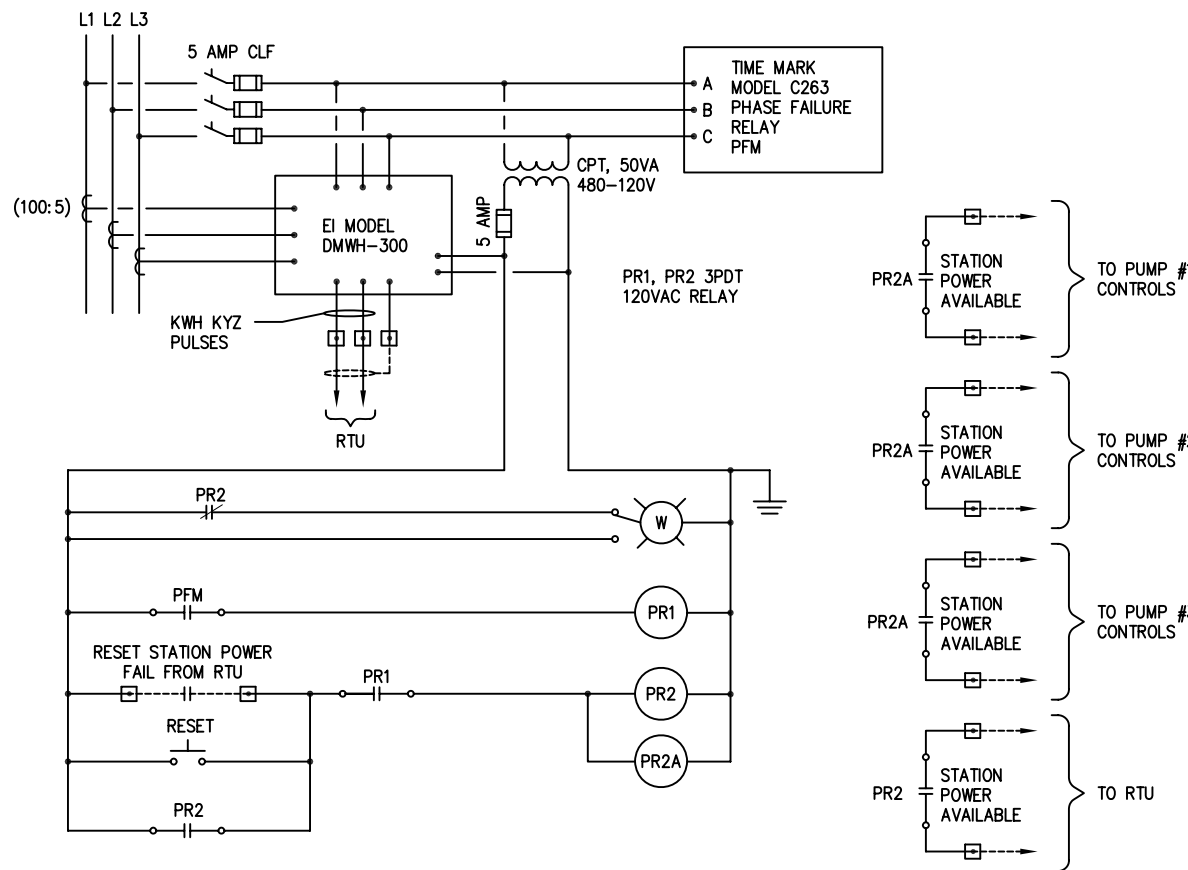


PUMP SOFT STARTER CONTROLS WIRING SCHEMATIC



LOW SUCTION CONTROLS WIRING SCHEMATIC

REFER TO CUTLER HAMMER, SANTE FE SPRINGS, CF DRAWING WD-2

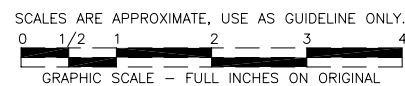


POWER MONITORING CONTROL WIRING SCHEMATIC

REFER TO CUTLER HAMMER, SANTE FE SPRINGS, CF DRAWING WD-1

1217-005.dwg

MSO 04/2006



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LAS VIRGENES MUNICIPAL WATER DISTRICT
JED SMITH PUMP STATION
PLC CONTROL PANEL WIRING
MCC WIRING DETAILS

ISSUE No.	ISSUE DATE	DRWN BY	DES'D BY	CHK'D BY	ISSUED FOR
1	11/12/04	LFT	LFT	LFT	90% SUBMITTAL
2	04/2006	LFT	LFT	LFT	RECORD

09674
SHEET 5A OF 5
DRAWING No. 1217-005A
JOB No. 1217
SCALE: NONE
UNLESS NOTED OTHERWISE BY A SPECIFIC DETAIL