



October 27, 2017

File No.: 08.06.69

Addendum No. 1
San Quentin Pump Station Reconstruction

THE CHANGES IN THIS ADDENDUM SHALL BE INCLUDED IN THE RFP AND THIS ADDENDUM SHALL BE PART OF THE RFP DOCUMENTS. ALL CONDITIONS NOT AFFECTED BY THIS ADDENDUM SHALL REMAIN UNCHANGED.

The following questions have been received by the City.

Question 1

Will the City make available online the original construction drawings for the pump station?

Response: Yes, please find attached to this addendum the construction plans that have been located in City files. The pump station was constructed with other improvements related to the East San Rafael Assessment District No. 1.

Question 2

What is the anticipated pumping capacity, or will the design consultant be expected to prepare a supporting hydrology and hydraulic report? Is there an existing hydrology and hydraulic report available for the original pump station?

Response: As part of Task 2: Design, Item 4, the consultant shall include in his/her proposal the preparation of all calculations, reports, and supporting documentation for the new pump station. Supporting documentation shall include at a minimum geotechnical borings/reports, hydrology and hydraulic report, structural calculations, and any other report or study deemed necessary by the City or regulatory environmental agency, whether specified in the Request for Proposals and subsequent Addenda or not, to justify the design of the pump station, including sizing of all pipes, pumps, motors, etc. The consultant's proposal shall clearly outline what reports and studies are included in the proposal, and a breakdown of the cost of each report or study shall be provided in the consultant's cost.

City staff has researched available files and documents associated with the original design of the pump station. The following two reports/studies have been located that may be applicable:

1. Gravity Outfall Study – East San Rafael Assessment District, dated April 25, 1971
2. Drainage Calculations – East San Rafael Assessment District

These files are available for review at Public Works offices. Contact Hunter Young at 415-485-3408 to schedule an appointment. These files will not be scanned or duplicated.

Sincerely,

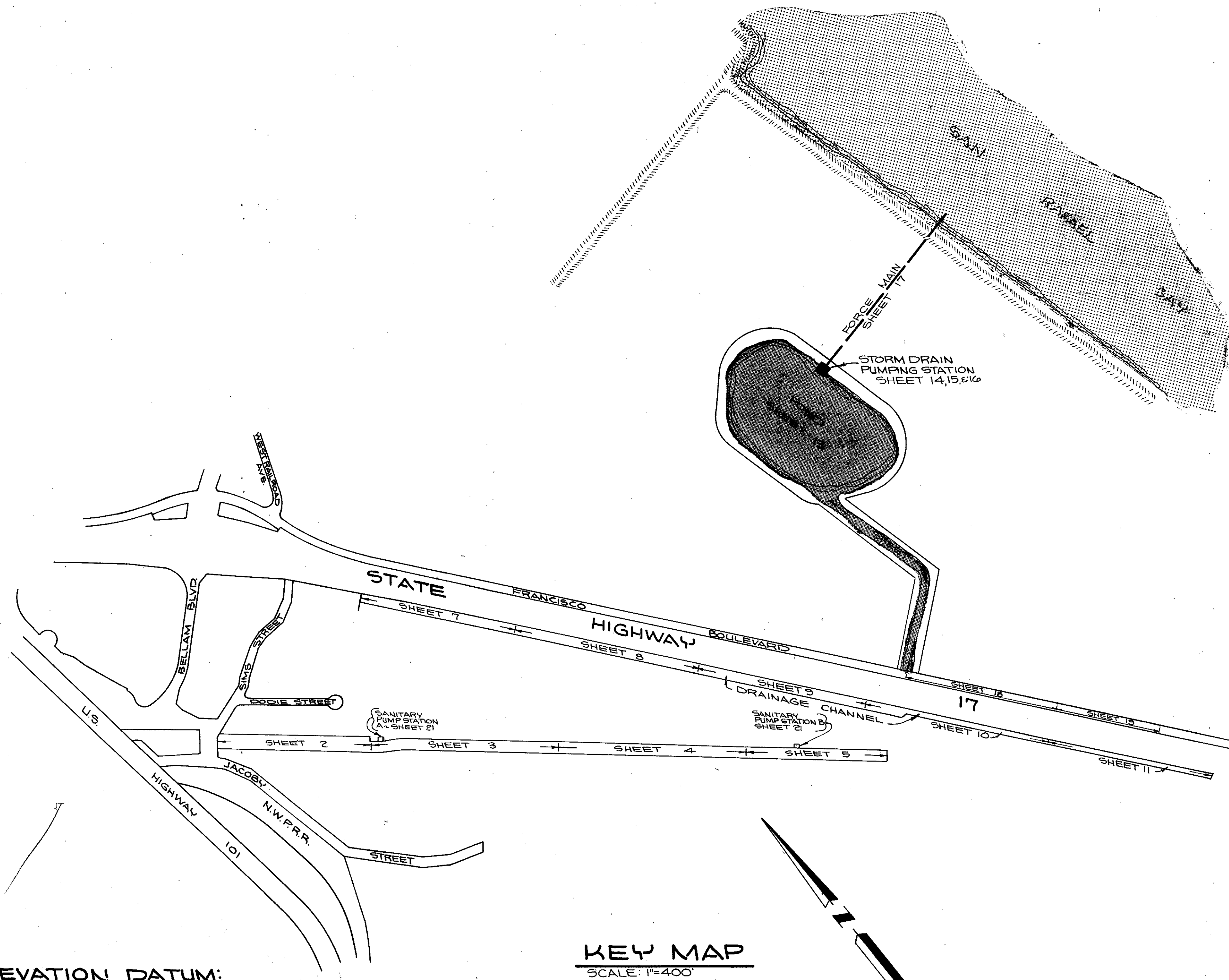
Hunter Young
Associate Civil Engineer

AD-32 East San Rafael Drainage Assessment District No. 1

<u>Sheet No.</u>	<u>Drawing Name</u>	<u>Title</u>
1	AD-32_1of22	Improvement Plan - Key Map
2	AD-32_2of22	Improvement Plan - Plan & Profile
3	AD-32_3of22	Improvement Plan - Plan & Profile
4	AD-32_4of22	Improvement Plan - Plan & Profile
5	AD-32_5of22	Improvement Plan - Plan & Profile & Sanitary Sewer Trench Detail
6	AD-32_6of22	Improvement Plan - Profile
7	AD-32_7of22	Improvement Plan - Plan & Profile: Storm Drain Channel
8	AD-32_8of22	Improvement Plan - Plan & Profile: Storm Drain Channel
9	AD-32_9of22	Improvement Plan - Plan & Profile: Storm Drain Channel
10	AD-32_10of22	Improvement Plan - Plan & Profile: Storm Drain Channel
11	AD-32_11of22	Improvement Plan - Plan & Profile: Storm Drain Channel
12	AD-32_12of22	Improvement Plan - Plan & Profile: Storm Drain Channel
13	AD-32_13of22	Improvement Plan - Pond Plan
14	AD-32_14of22	Improvement Plan - Storm Drainage Pumping Station
15	AD-32_15of22	Improvement Plan - Storm Drainage Pumping Station
16	AD-32_16of22	Improvement Plan - Storm Drainage Pumping Station / Electrical Plan
17	AD-32_17of22	Improvement Plan - Storm Drainage Outfall
18	AD-32_18of22	Improvement Plan - Plan & Profile
19	AD-32_19of22	Improvement Plan - Plan & Profile
20	AD-32_20of22	Improvement Plan - Junction Box Plans
21	AD-32_21of22	Improvement Plan - Sanitary Sewer Lift Stations
22	AD-32_22of22	Improvement Plan - Sanitary Sewer Lift Stations
23	AD-32_1of3	Assessment Diagram
24	AD-32_2of3	Assessment Diagram
25	AD-32_3of3	Assessment Diagram
26	AD-32_1of1	Proposed Boundaries
27	AD-32_1of1_D	Proposed Boundaries (Duplicate)
28	AD-32_1Aof1	Boundary Map
29	AD-32_1Bof1	Tidal - Levee - Fill Elevation
30	AD-32_14A	Pump Station Connection Structure
31	AD-32_14B	Slide Connection Detail
32	AD-32_17A	Junction Box & Catwalk Details
33	AD-32_1Cof1	Operation of System

GENERAL NOTES:

1. All construction shall be in accordance with the City of San Rafael Standard Specifications and the Uniform Construction Standards, Cities of Marin and County of Marin.
2. The Department of Public Works shall be notified 48 hours prior to commencing construction operations.
3. Utilities as shown on these plans conform with present information, however it is the contractor's responsibility to verify locations and depth of all utilities with appropriate agencies.
4. Exact asphalt concrete, aggregate base and aggregate sub base thicknesses will be determined by soil tests taken on imported fill material.
5. The engineer assumes no responsibility for final grade of Concrete unless he has checked the forms prior to pouring.
6. The engineer is not responsible for the existence of easements outside the assessment district. Before constructing any improvements or utilities the contractor shall ascertain the existence of easements and right to enter and Construct improvements.
7. The contractor shall notify the engineer immediately of any conflicts between sanitary sewer, storm sewer or any other utilities or surface or under-ground improvements.
8. Sanitary Sewers and appurtenances shall be constructed in accordance with San Rafael Sanitation District Specifications.
9. All Sanitary Sewer Manholes to be constructed will be Drop Manholes as shown on Detail Sheet 5.
10. All Sanitary Sewer pipes shall be connected with flexible compression joints.
11. All Catch Basins will have Type A Grates as shown on Uniform Construction Standards Dwg No. 211.
12. All Catch Basins will be the type shown below with the corresponding Uniform Construction Standards Drawing Number:
Catch Basins 1, 5, 6, 13 ~ TYPE 'E' ~ Dwg. No. 224.
Catch Basins 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16 ~ TYPE 'D' ~ Dwg. No. 223.
13. All Turning Structures are as shown on Uniform Construction Standards Drawing No. 230.
14. All Curb & Gutter to be constructed will be TYPE 'A' as shown on Uniform Construction Standards Drawing Number 101.
15. Roadhole is as shown on City of San Rafael Standard Drawing No. 12.



ELEVATION DATUM:

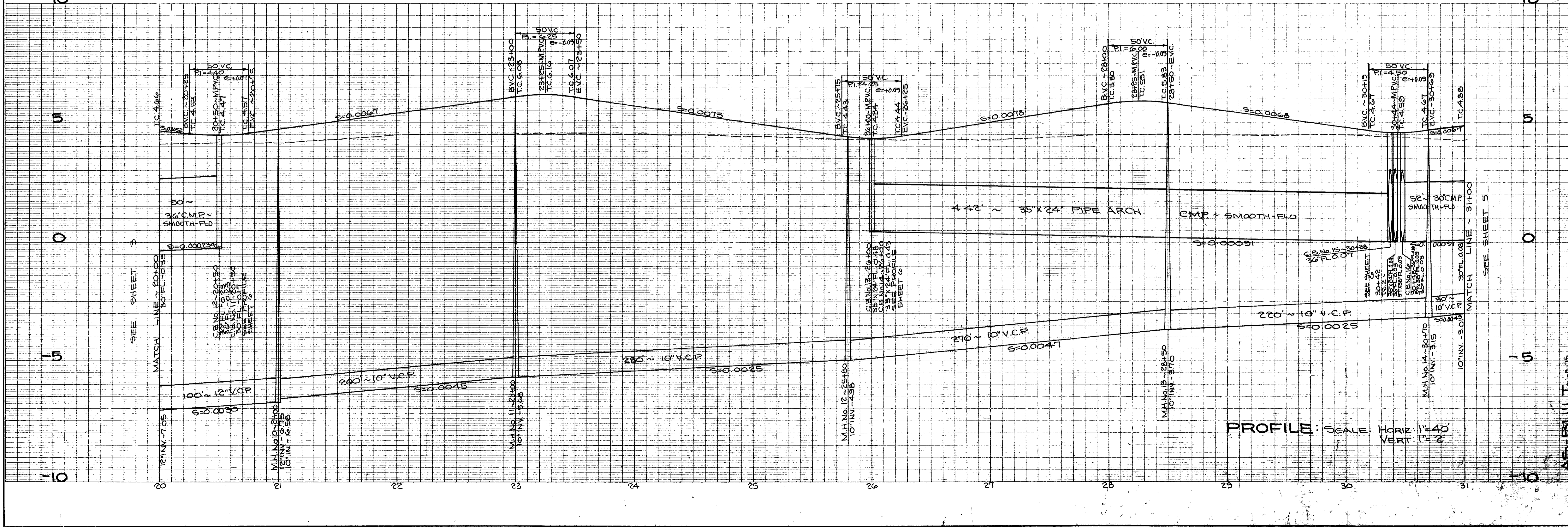
U.S.C. & G.S. M.S.L. 1929 U.S.C. & G.S. B.M. TIDAL IS. ELEVATION 5266
 DETAILED DESCRIPTION: 0.5 mile N.E. along Main Street from the post office in San Quentin, thence 0.1 mile N.W. on State Hwy. 69, in the top and near the N.E. end of a 2 1/2 foot concrete culvert, 52.5 feet S.W. of the centerline of the S.W. lane Hwy. 69, 41.5 feet south of Light Pole No. D 181, 30.4 feet S.W. of sign A1205+02, 11.2 feet west of the west corner of a conc. pier under West end of Hwy overpass, 1.0 feet S.W. of the N.E. end of the culvert, and about 2.0 feet lower than Highway.

BASIS OF BEARINGS:

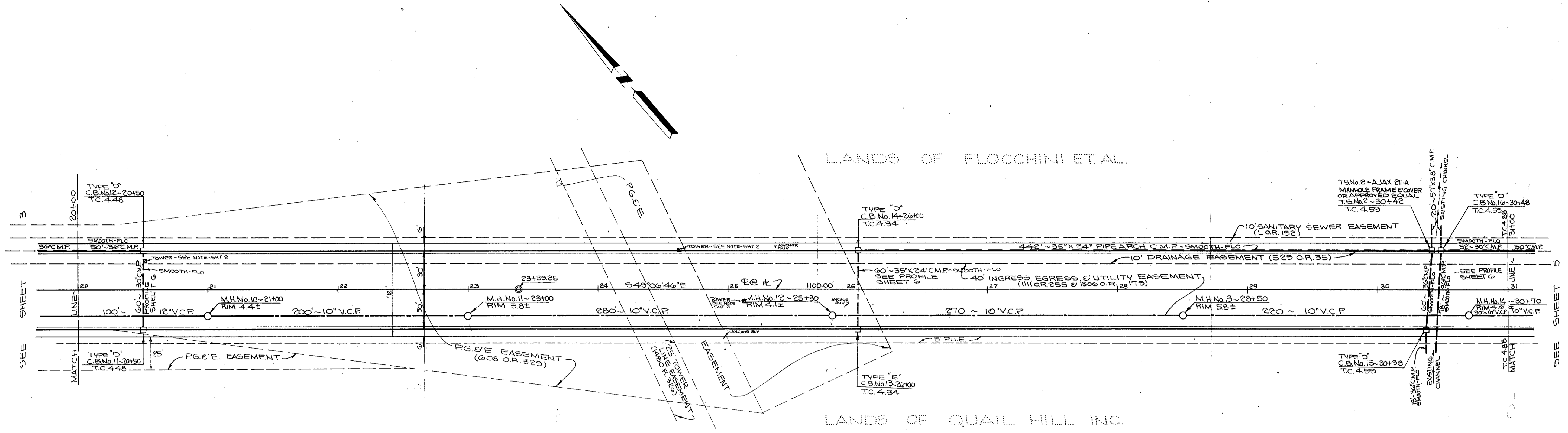
Basis of bearing is California Coordinate System, Zone 3, Mon. A, 160700 E Mon. A, 176400 E HWY 17, Bearing N 38° 32' 32" W

KEY MAP
SCALE: 1"=400'

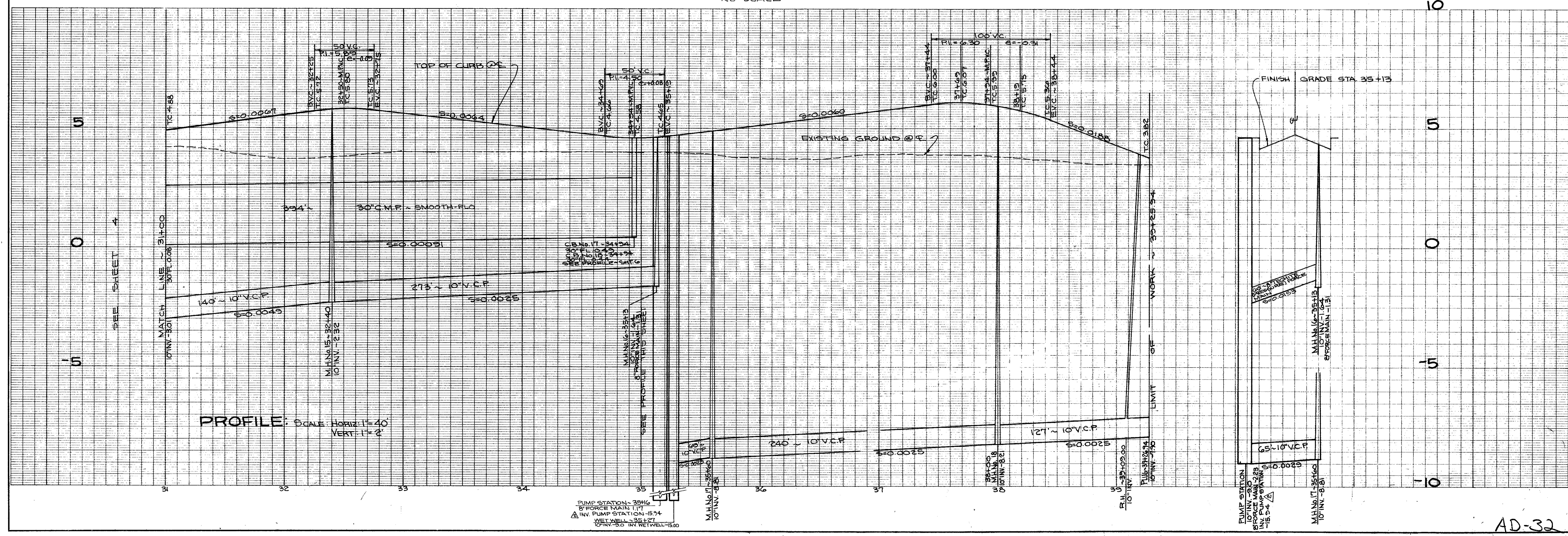
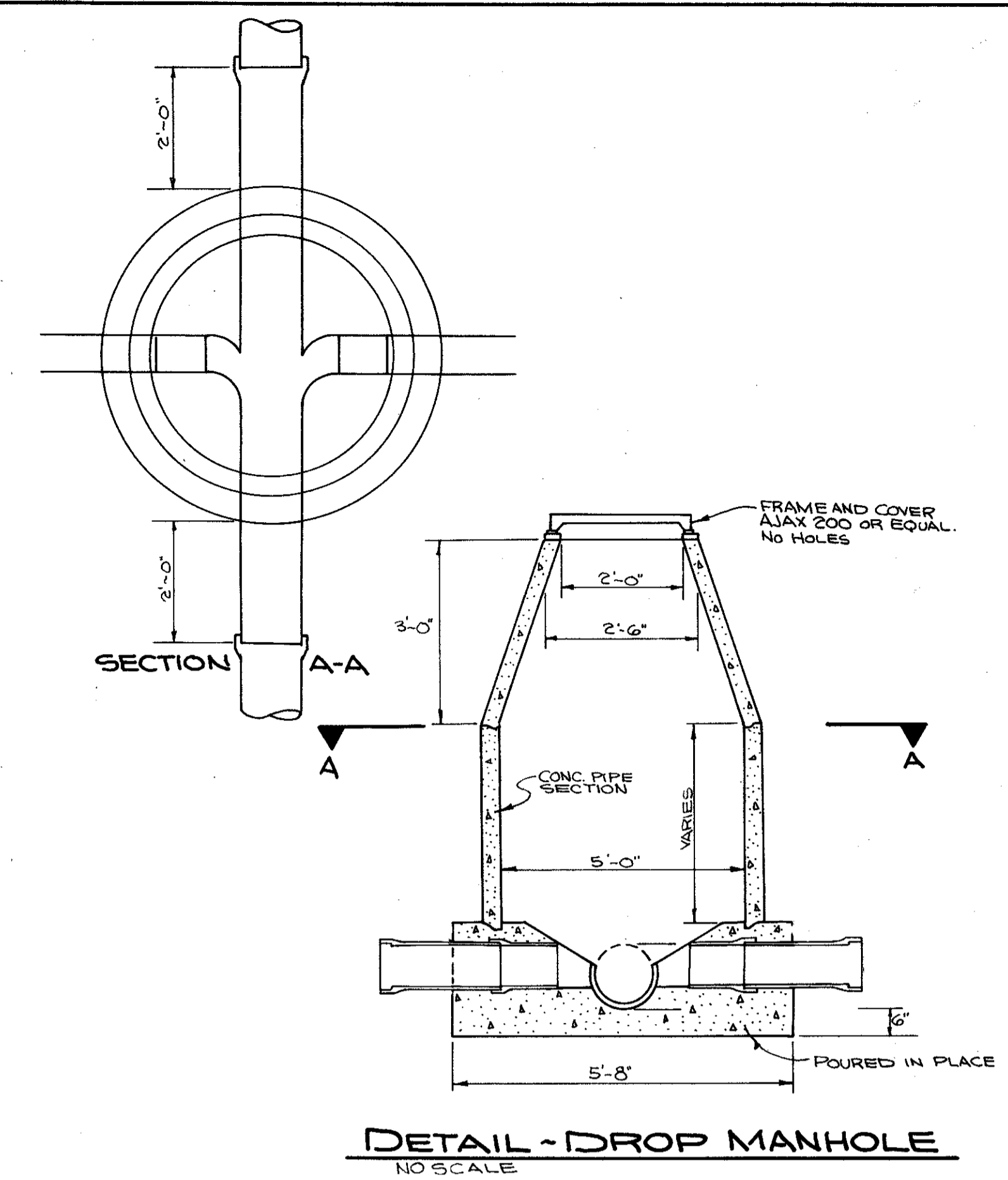
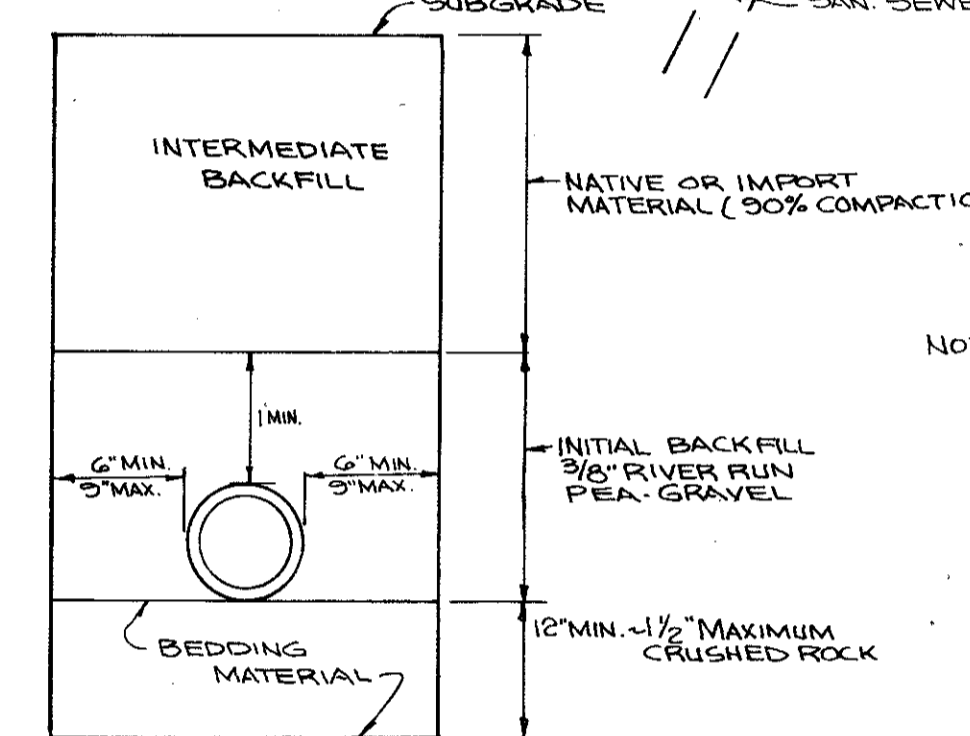
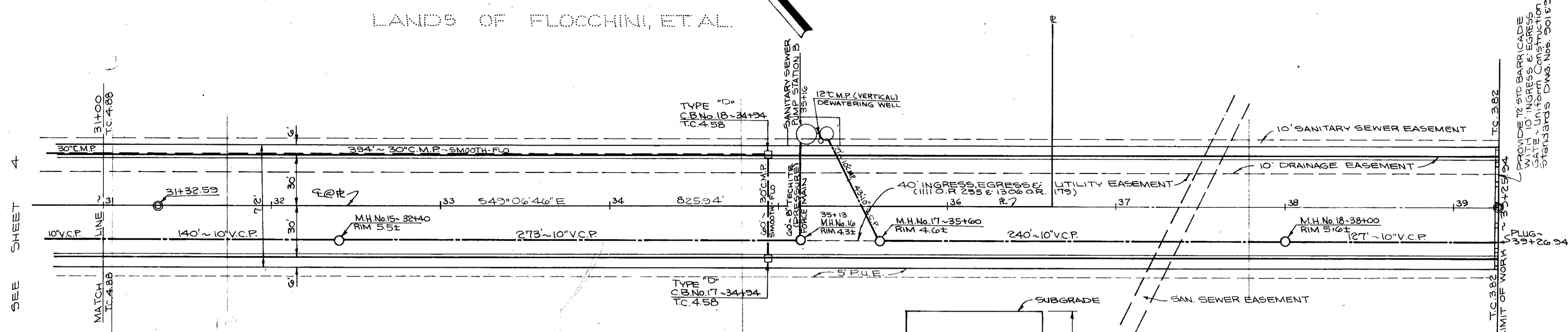
APPROVED 12/22 BY *Ely Culbert*
 DRAWN BY *X* CHECKED BY *160* DESIGNED BY *160* DATE OCT 1994 SCALE AS SHOWN
GONZALEZ & OBERKAMPER CIVIL ENGINEERS INC.
 IMPROVEMENT PLAN OF EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 17
 CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA
 SHEET NO. 1 OF 22 SHEETS
 AD-32 ASBUILT-1-8-75
 JOB NO. 182-68



PLAN: SCALE: 1"=40'



SHEET NO. 4 OF 22 SHEETS
 IMPROVEMENT PLAN OF EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT NO. 11
 CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA
 AS BUILT 11-8-15
 DRAWN BY R.E.B. CHECKED BY I.C.O. DESIGNED BY B.K.L. DATE OCT. 1971. SCALE AS SHOWN
 APPROVED 1/2/22 BY *E. J. Calloway*
 GONZALEZ & OBERKAMPER CIVIL ENGINEERS INC. REG. C.E. 12034



APPROVED 12/22 BY *Ely Calloway*

DRAWN BY REB.J. CHECKED BY I.E.O. DESIGNED BY B.A.L. DATE OCT. 1971. SCALE AS SHOWN

AS-BUILT 11-8-75

IMPROVEMENT PLAN OF EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1

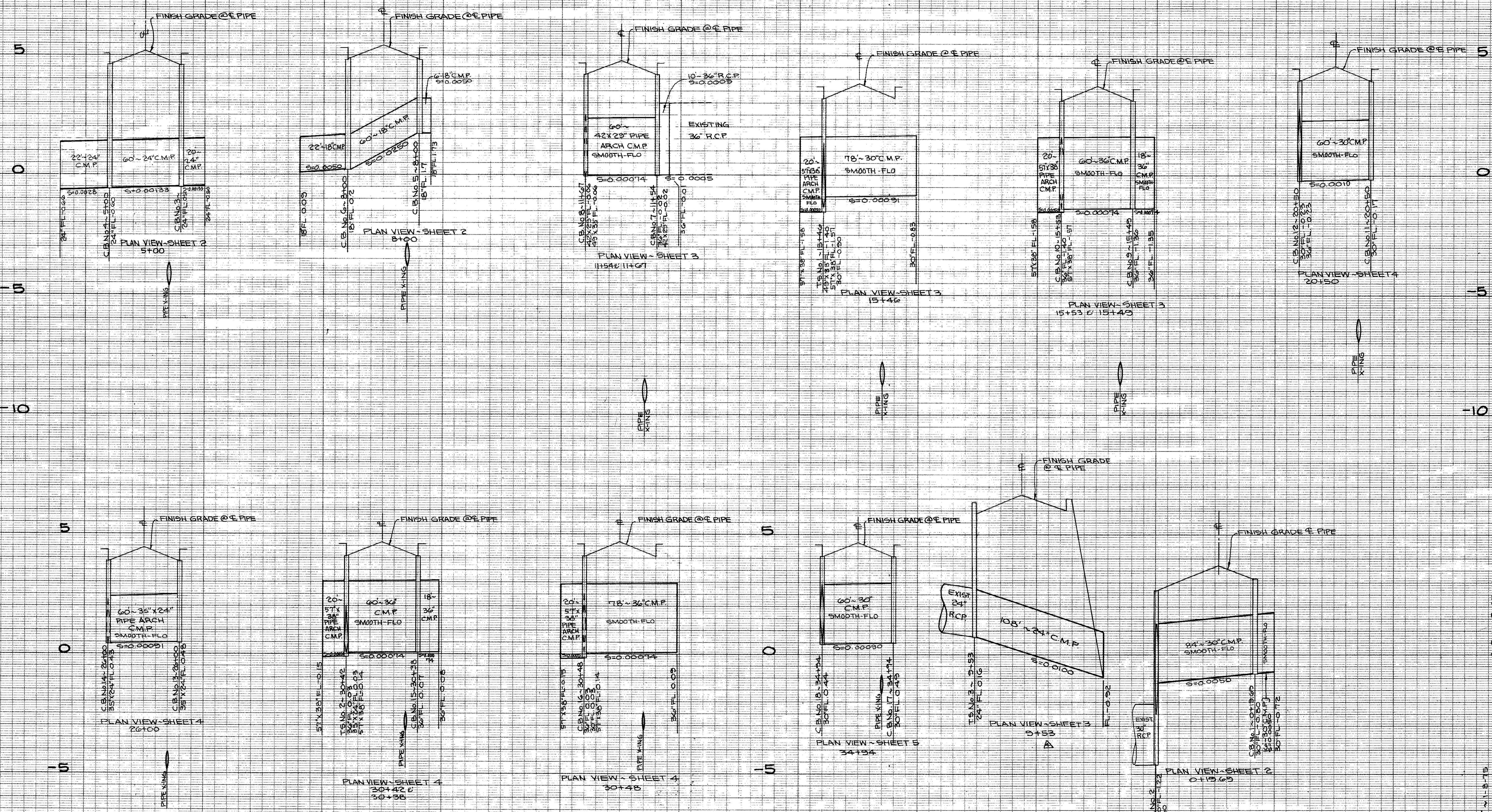
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

REG. CE. 12094

GONZALEZ & OBERKAMPER CIVIL ENGINEERS INC.

14-7174 B.K. REVISOR - PUMP STATION ELEV.

AD-32



PROFILE: SCALE: HORIZ. 1"=40'
VERT. 1"=2'

ASBULLITT 4-18-75
ALL ADDRESS PROFILE (PLAN VIEW) SHEET B-14-58, PLAN B-127-75

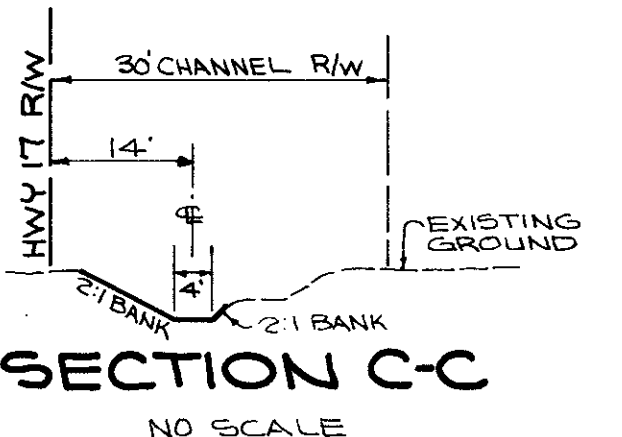
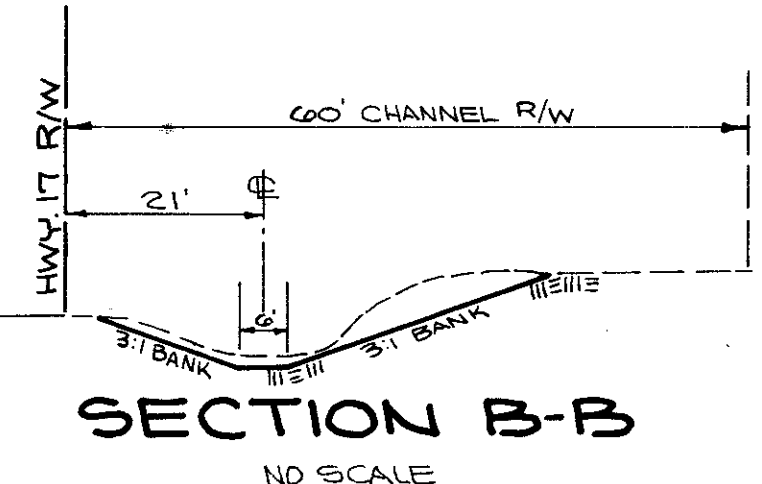
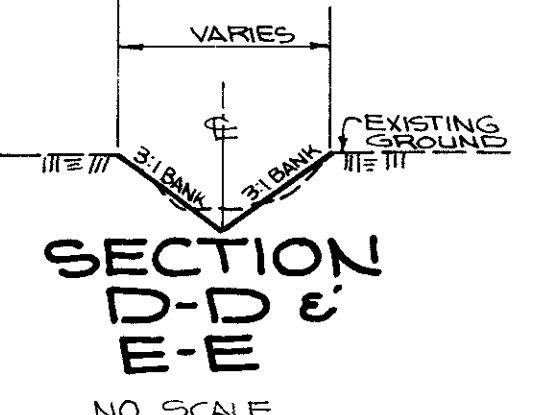
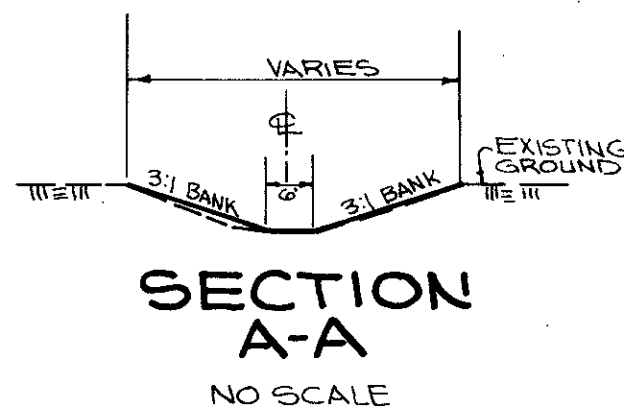
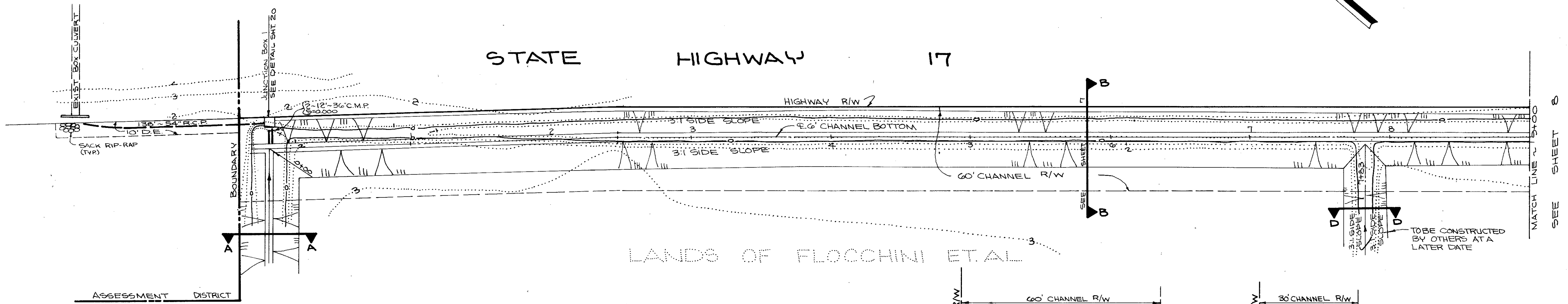
IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No.1
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.

DRAWN BY J
CHECKED BY B.K.L.
DESIGNED BY B.K.L.
DATE OF DESIGN
SCALE AS SHOWN

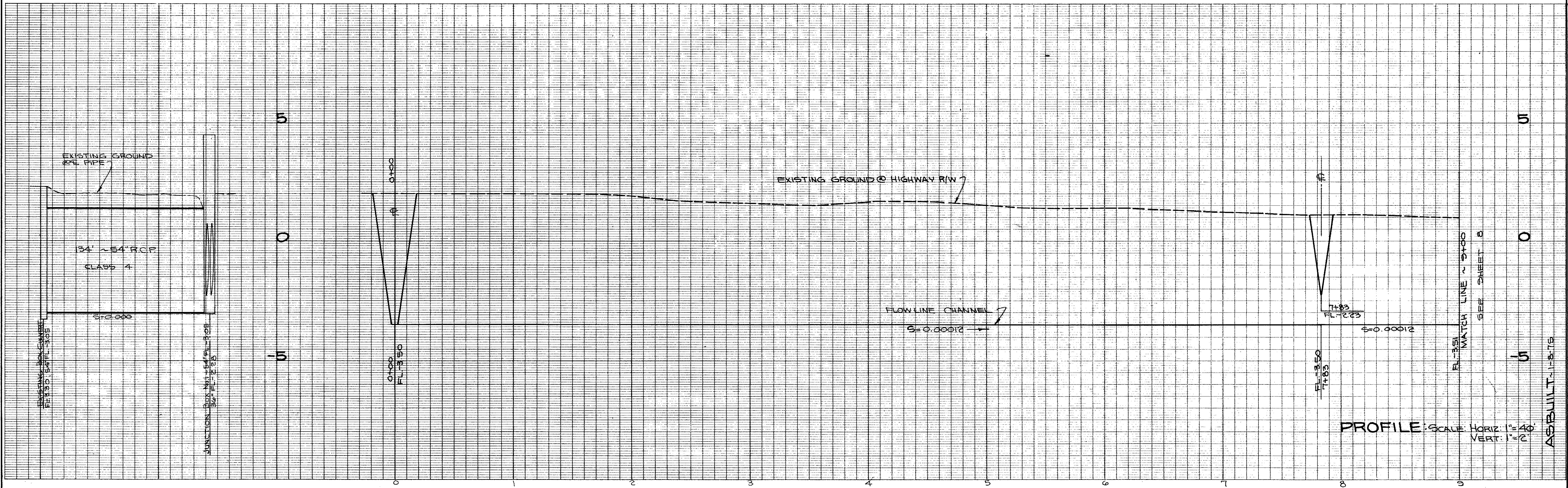
APPROVED 12/2/72
BY Ely Culbertson Jr.

19 71



PLAN: SCALE 1"=40'

(TO BE CONSTRUCTED BY OTHERS AT A LATER DATE)



STORM DRAIN CHANNEL AD-32

APPROVED 12/22
BY *E. J. Callan*

DRAWN BY
CHECKED BY I.E.O.
DESIGNED BY B.K.L.
DATE OCT. 1971
SCALE AS SHOWN

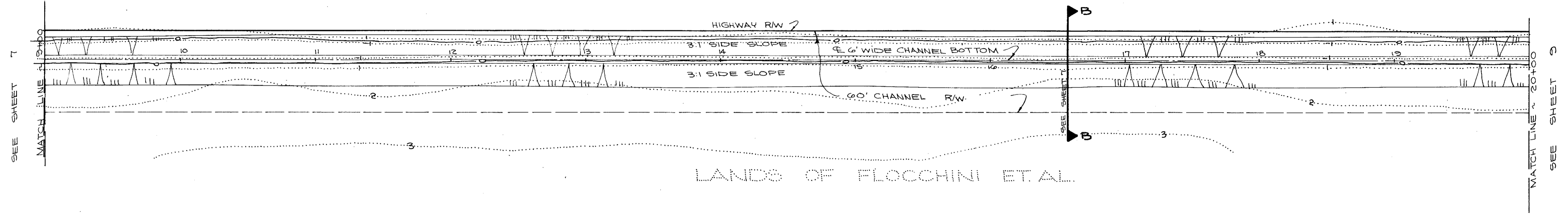
**GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.**

REG. C.E. 12004

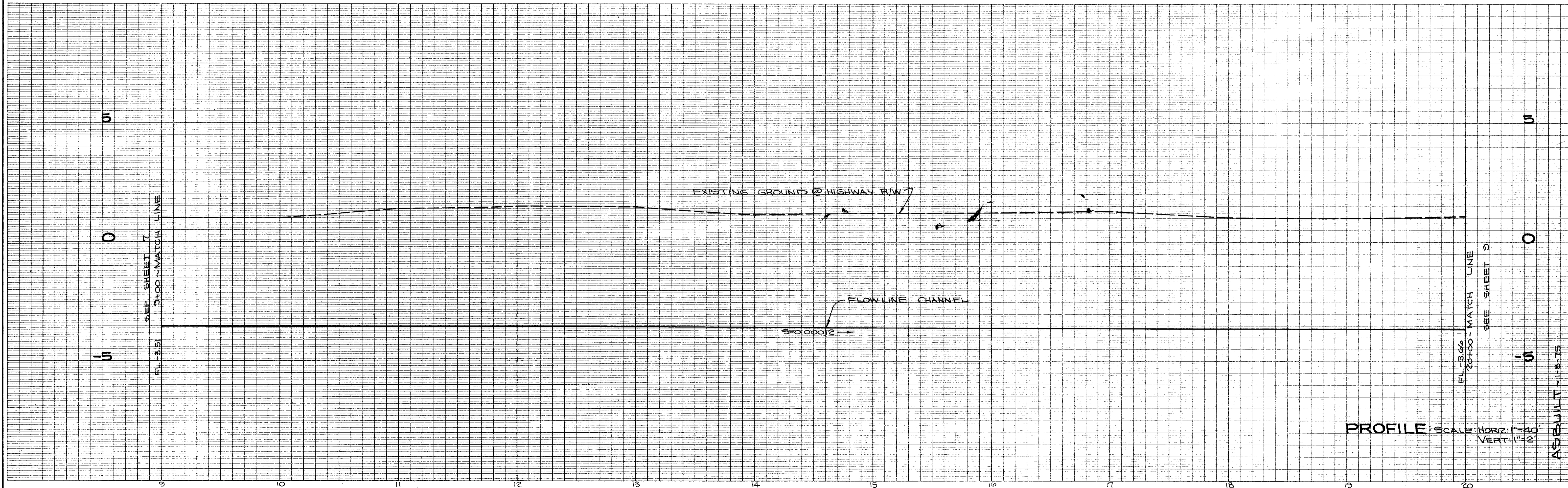
IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No.1
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

SHEET No. **7**
OF 22 SHEETS

AS BUILT 11-8-75



PLAN: SCALE: 1"=40'



PROFILE SCALE: HORIZ: 1"=40' VERT: 1"=2'

STORM DRAIN CHANNEL AD-32

APPROVED 12/2/72
BY *E. J. Bellmets*

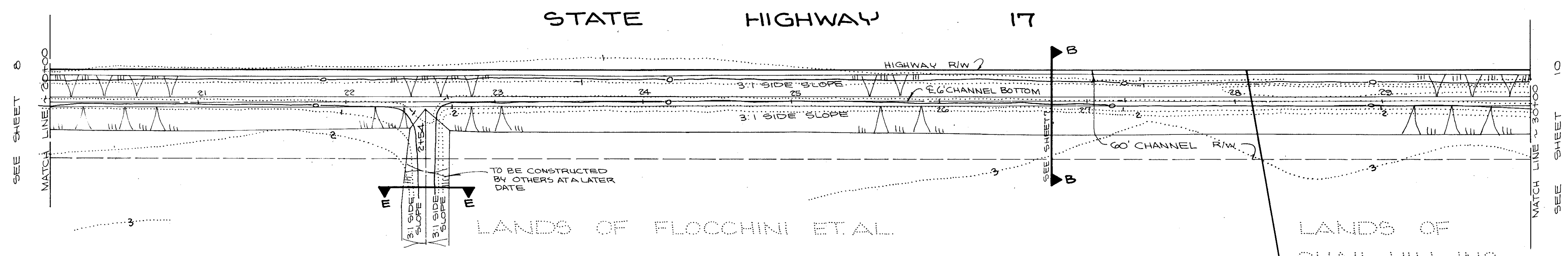
DRAWN BY J.
CHECKED BY B.K.L.
DESIGNED BY B.K.L.
DATE OCT. 1971
SCALE AS SHOWN

GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.
REG. C.E. 12024

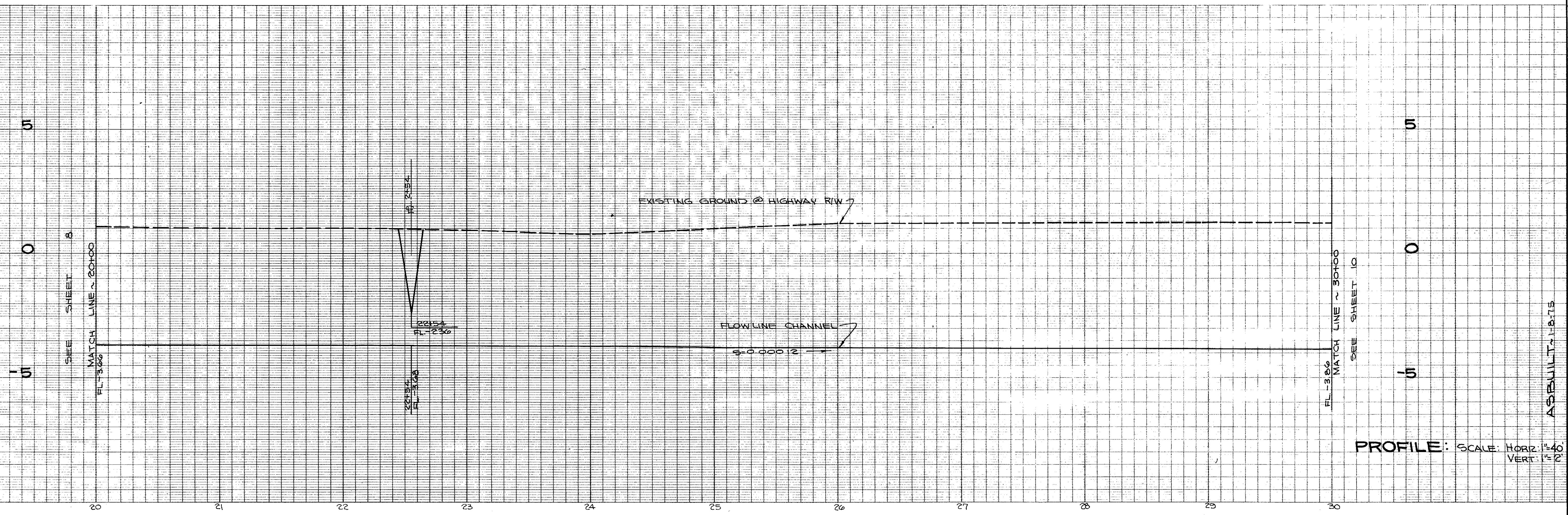
IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

SHEET No. 3
OF 22 SHEETS

182-66

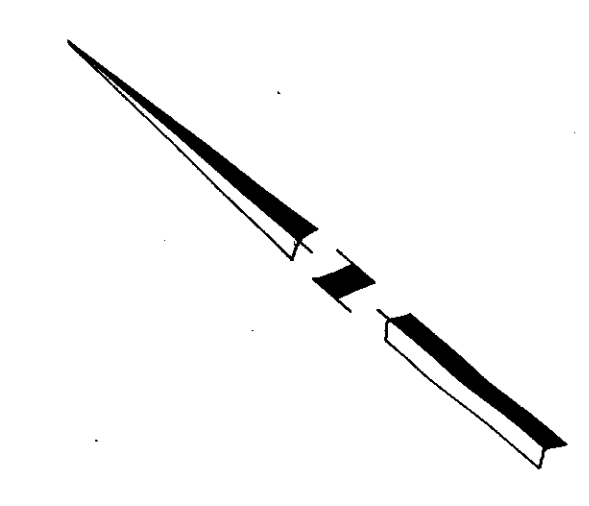


PLAN: SCALE: 1"=40'



PROFILE: SCALE: HORIZ: 1"=40'
VERT: 1"=2'

STORM DRAIN CHANNEL A0-32



APPROVED 12/22 BY *Ely Culver* 1977

DRAWN BY 150
CHECKED BY B.K.L.
DESIGNED BY B.K.L.
DATE OCT 1971
SCALE AS SHOWN

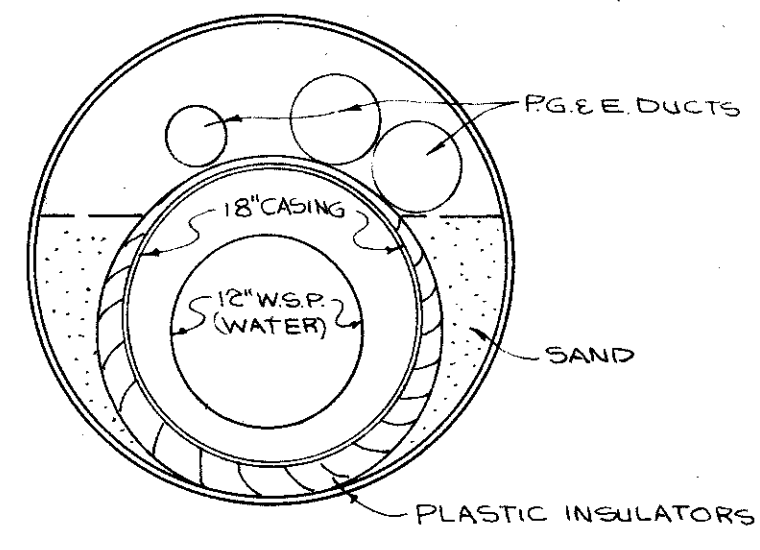
GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.
REG. C.E. 12054

IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

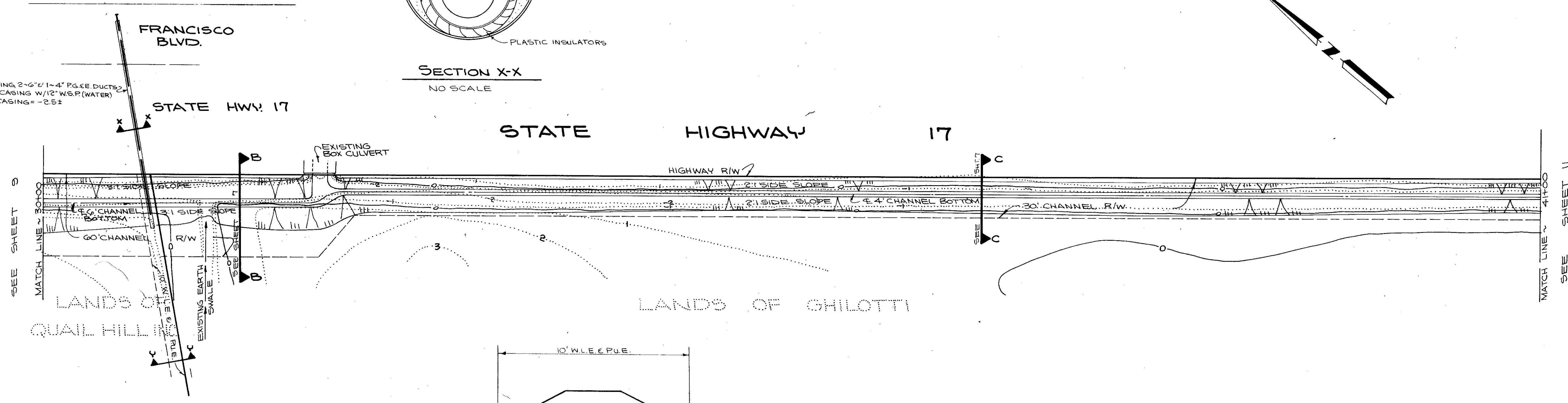
SHEET No. **5**
OF 22 SHEETS

ASBUILT 1-18-75

153'-30" CASING, 2-6" 1-4" P.G.E. DUCTS,
100'-18" O.D. CASING W/12" W.S.P. (WATER)
TOP OF 30" CASING = -2.51

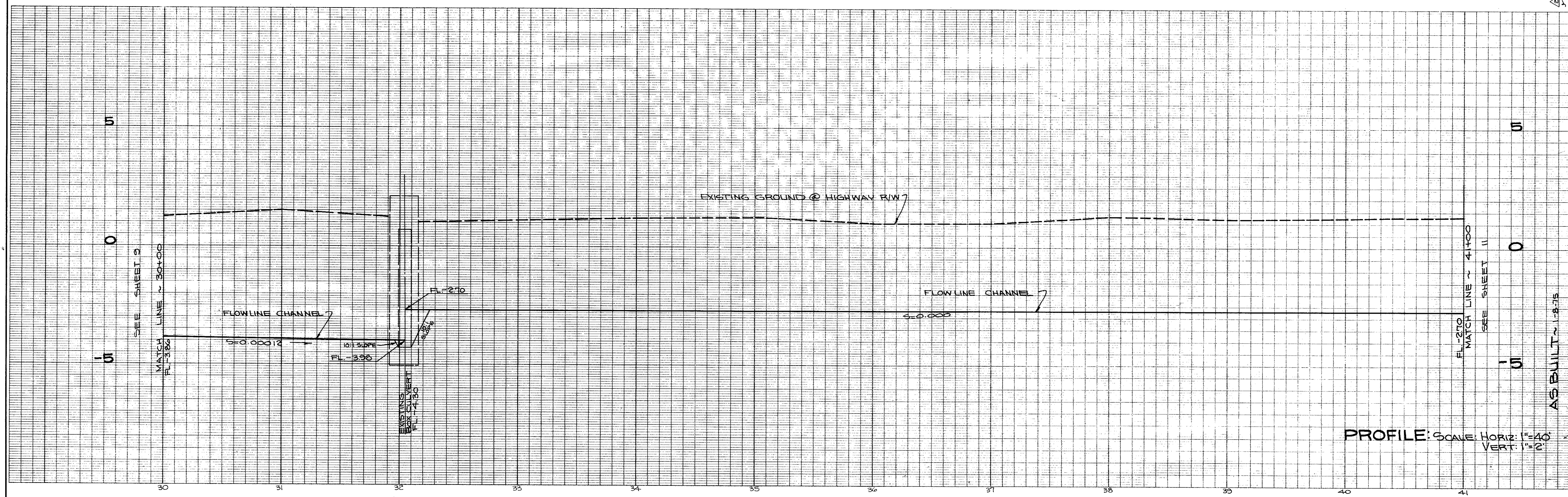
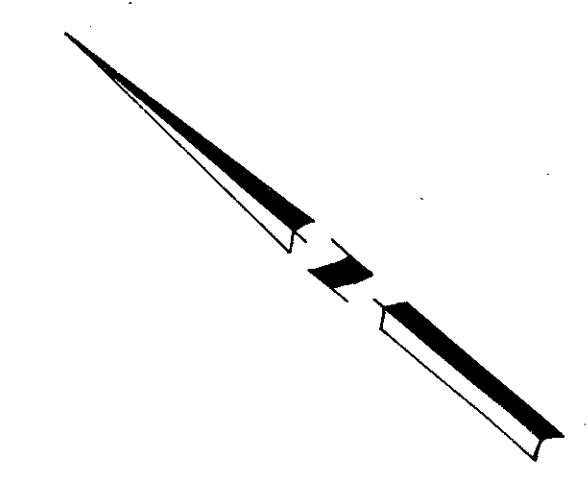


SECTION X-X
NO SCALE



PLAN: SCALE: 1"=40'

SECTION Y-Y
NO SCALE



PROFILE: SCALE: HORIZ: 1"=40'
VERT: 1"=2'

STORM DRAIN CHANNEL AD-32

APPROVED 12/22 1977
BY *Ely Culbertson*

DRAWN BY *A*
CHECKED BY *I.E.O.*
DESIGNED BY *B.K.L.*
DATE OCT. 1971
SCALE AS SHOWN

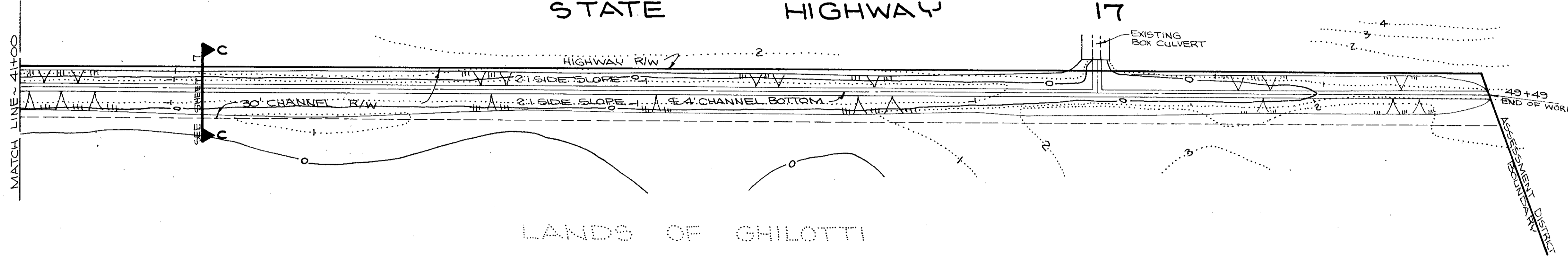
GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.
REG. CE 16094

IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

SHEET No. **10**
OF 22 SHEETS

SEE SHEET 10

MATCH LINE ~ 41+00



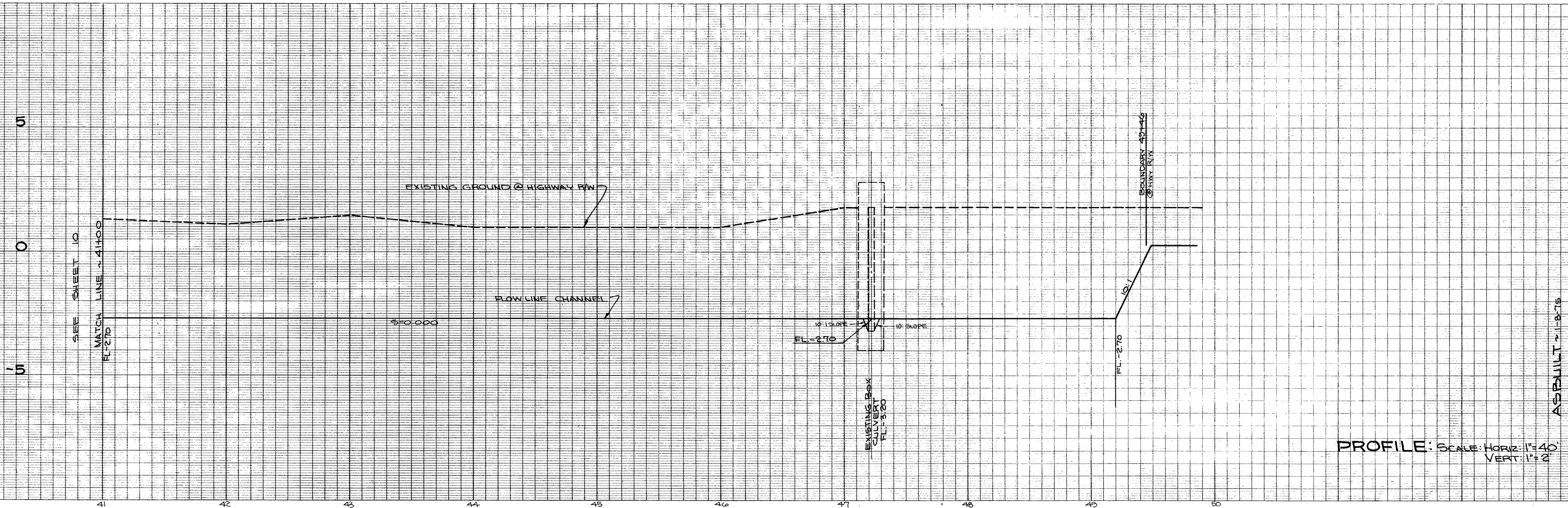
LANDS OF GHILOTTI

STATE HIGHWAY 17

PLAN: SCALE: 1"=40'

SEE SHEET 10

MATCH LINE ~ 41+00
FL=2.70



PROFILE: SCALE: HORIZ: 1"=40'
VERT: 1"=2'

STORM DRAIN CHANNEL AD-32

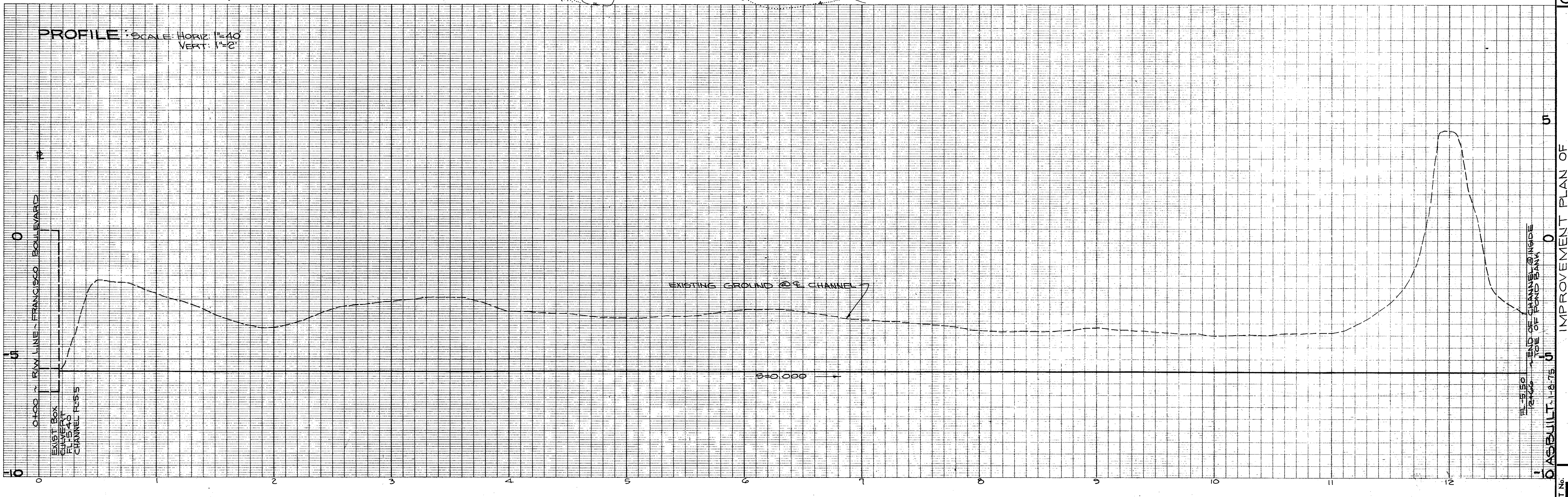
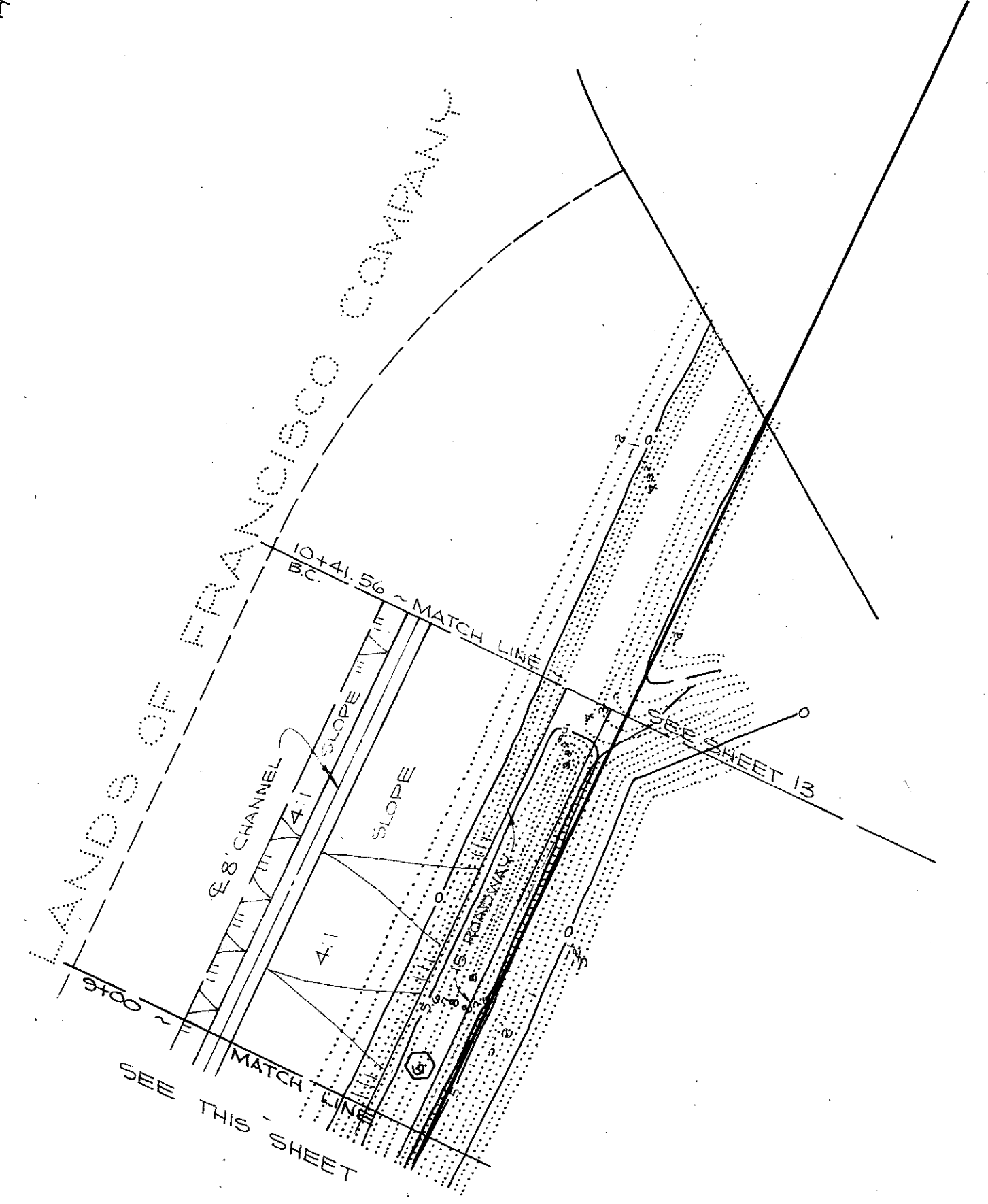
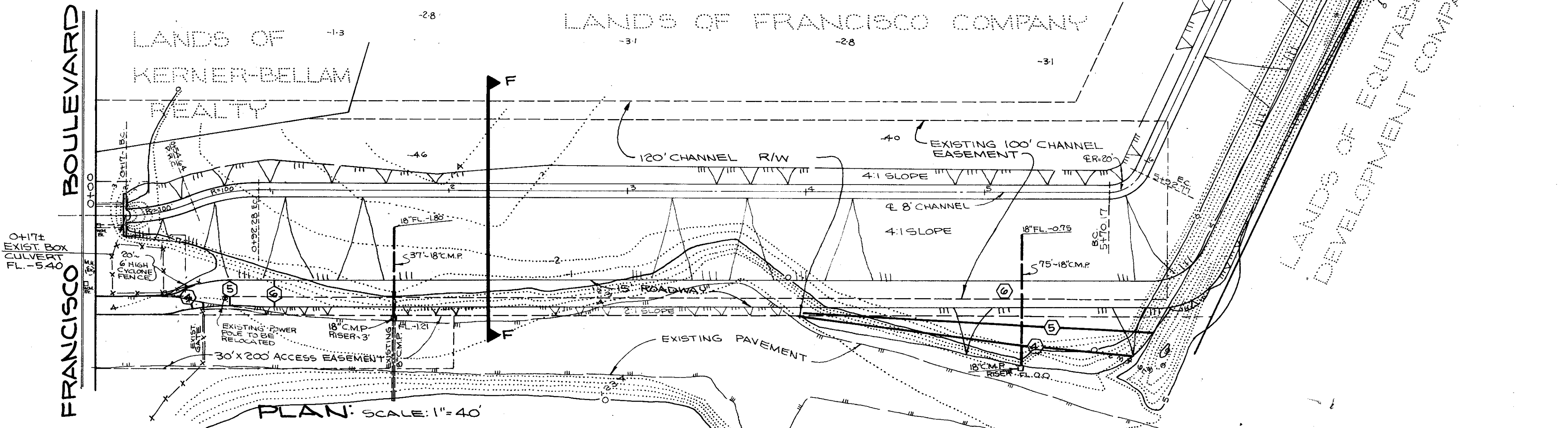
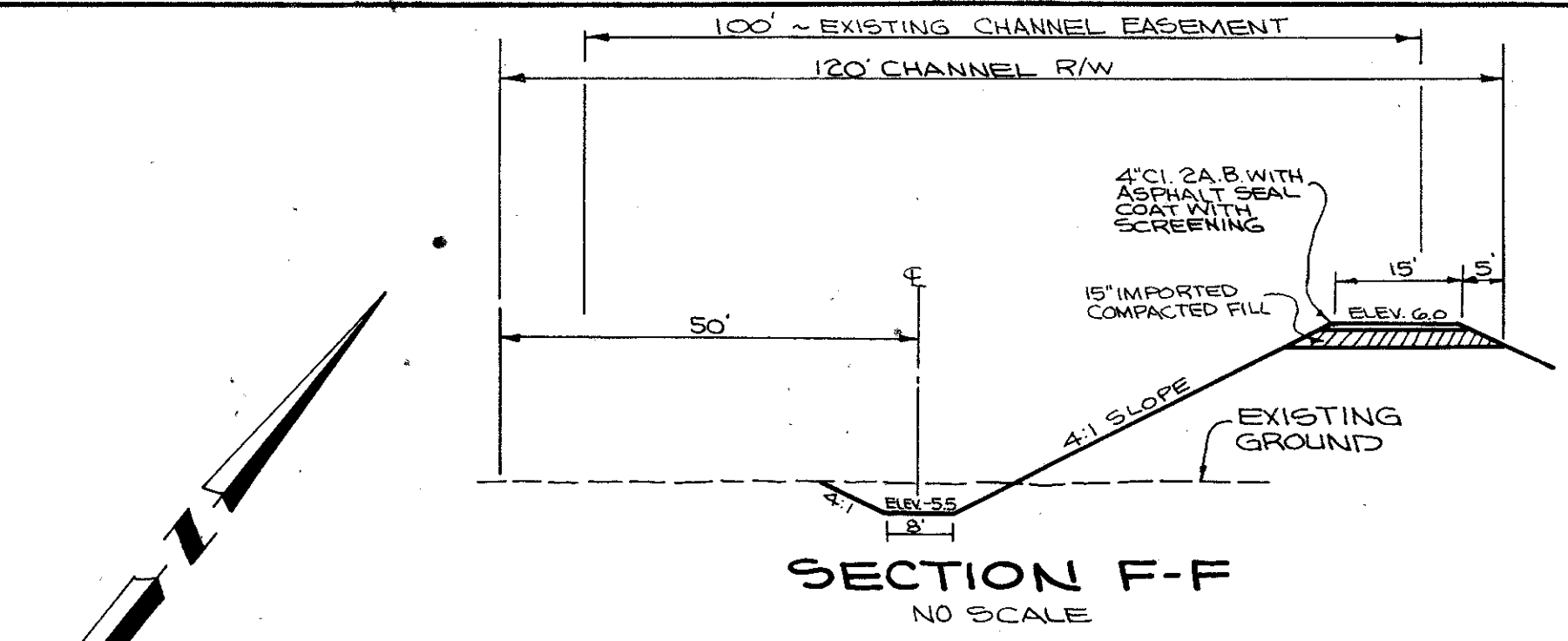
APPROVED 12/27/1974 BY *Ely Culbertson*

DRAWN BY *J*
 CHECKED BY i.e.o.
 DESIGNED BY B.K.L.
 DATE OCT. 1971
 SCALE AS SHOWN

GONZALEZ & OBERKAMPER
 CIVIL ENGINEERS INC.
 REG. C.E. 12094

IMPROVEMENT PLAN OF
 EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
 CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

SHEET No. 11
 OF 22 SHEETS



STORM DRAIN CHANNEL AD-32

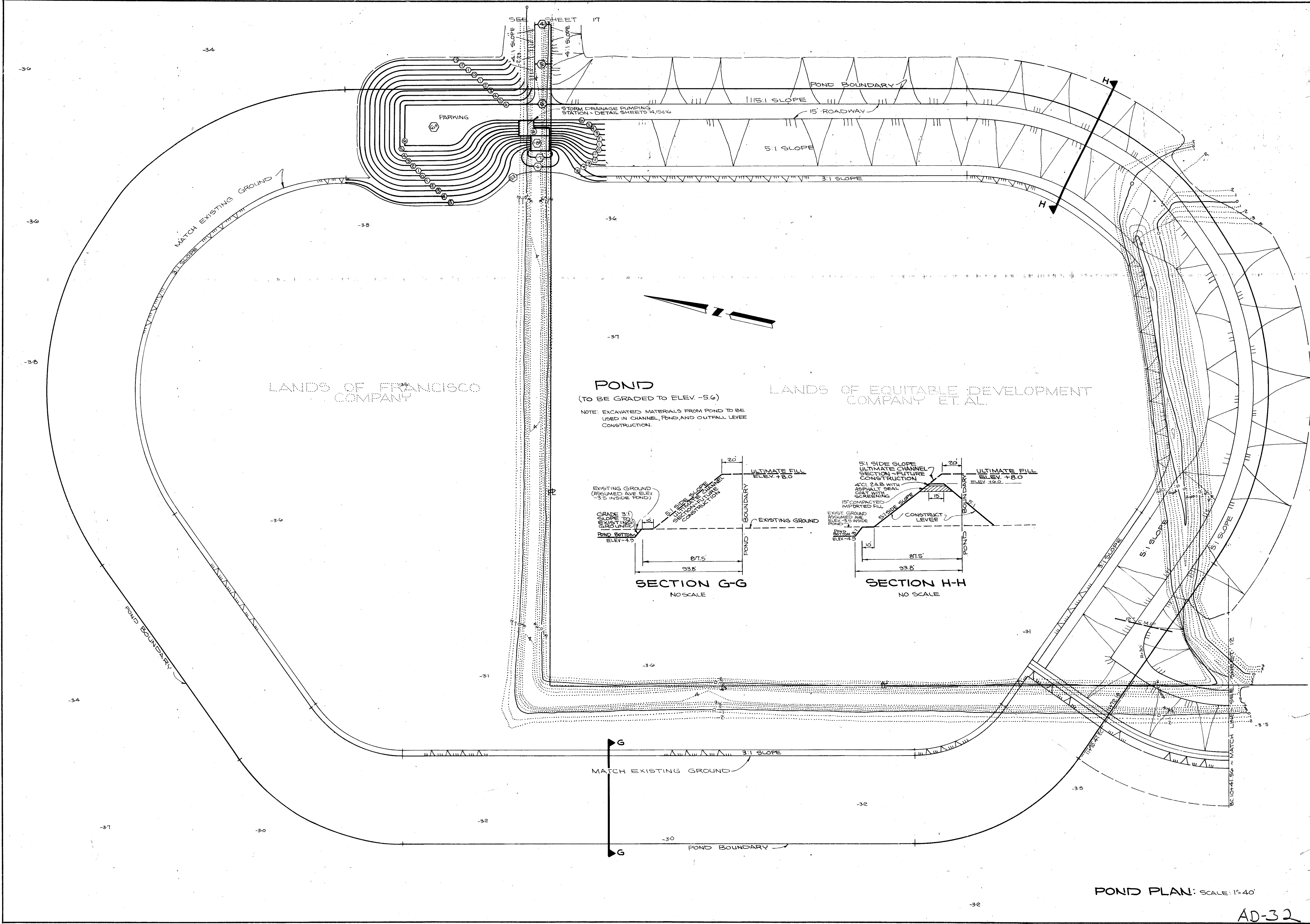
APPROVED 12/22 1971
BY *Ely Culbertson*

DRAWN BY *A*
CHECKED BY *160*
DESIGNED BY *160*
DATE OCT. 1971
SCALE AS SHOWN

**GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.**

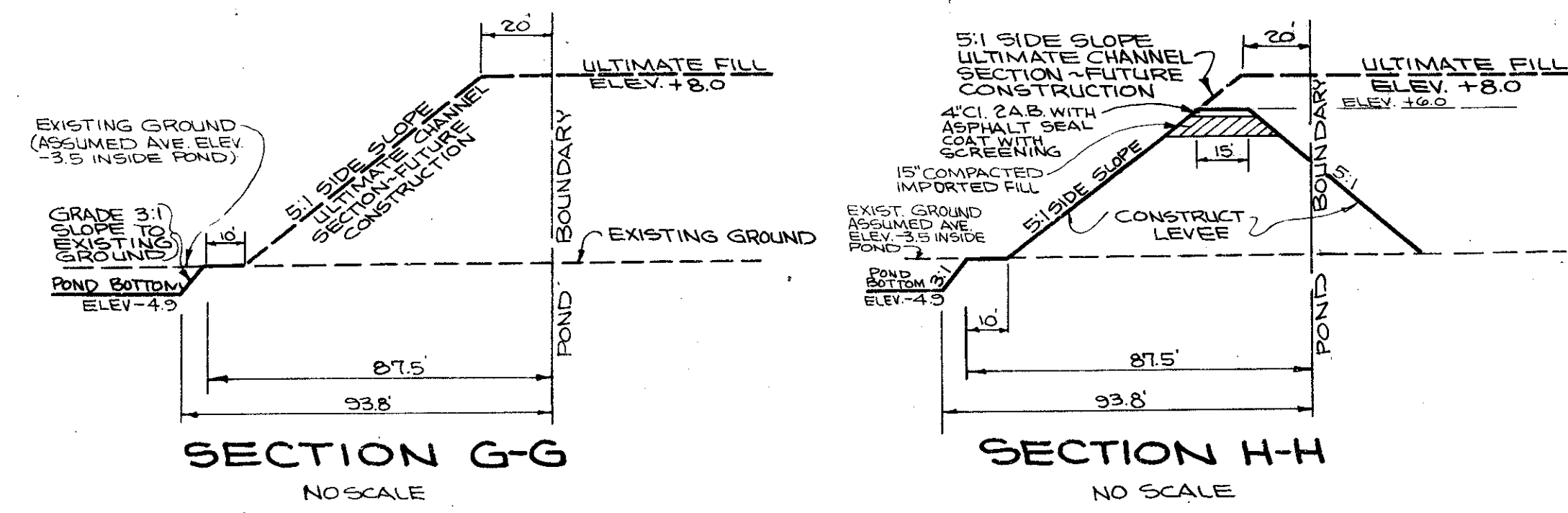
IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

SHEET No. **12**
OF 22 SHEETS



POND
(TO BE GRADED TO ELEV. -5.6)

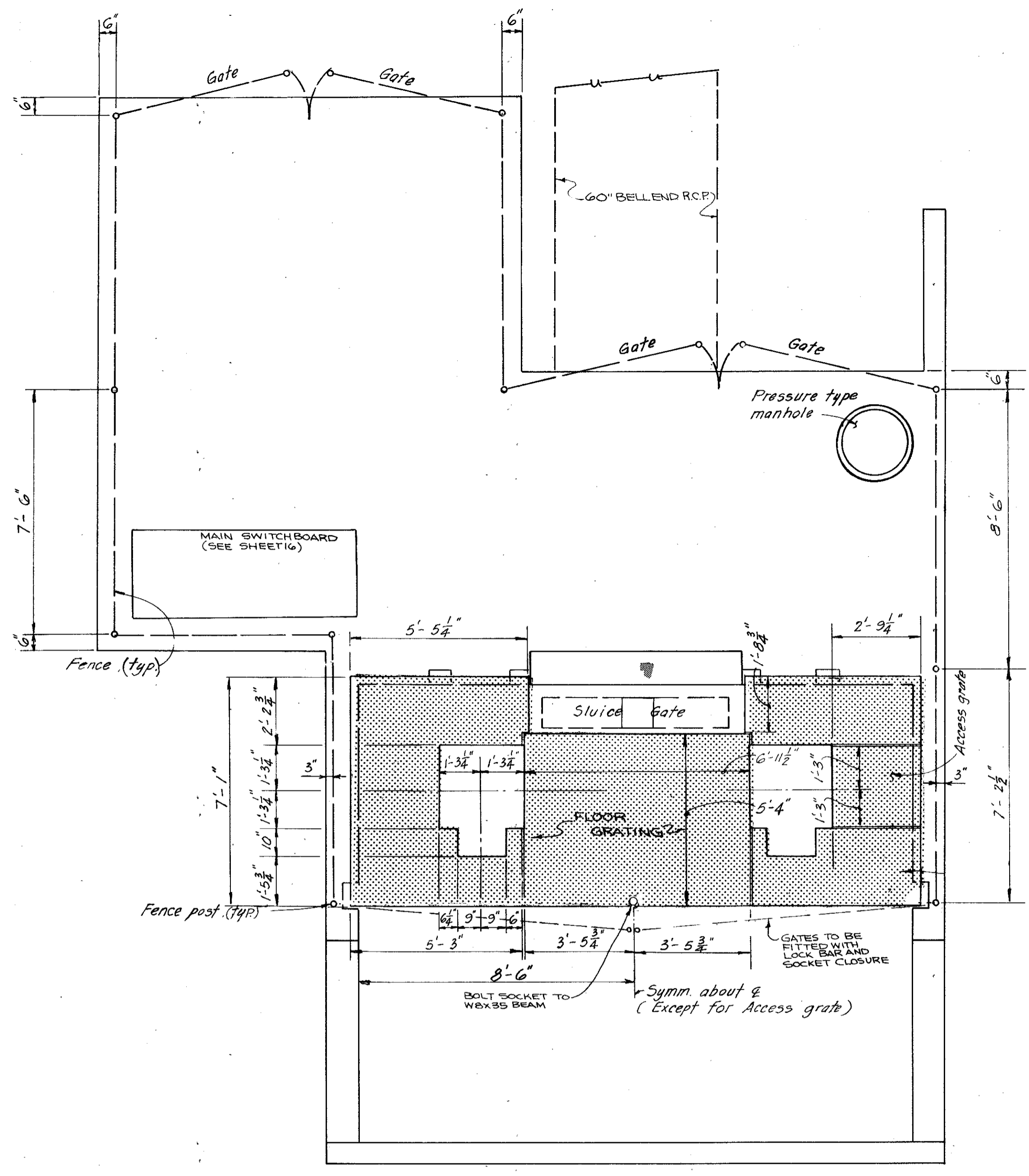
NOTE: EXCAVATED MATERIALS FROM POND TO BE USED IN CHANNEL, POND, AND OUTFALL LEVEE CONSTRUCTION.



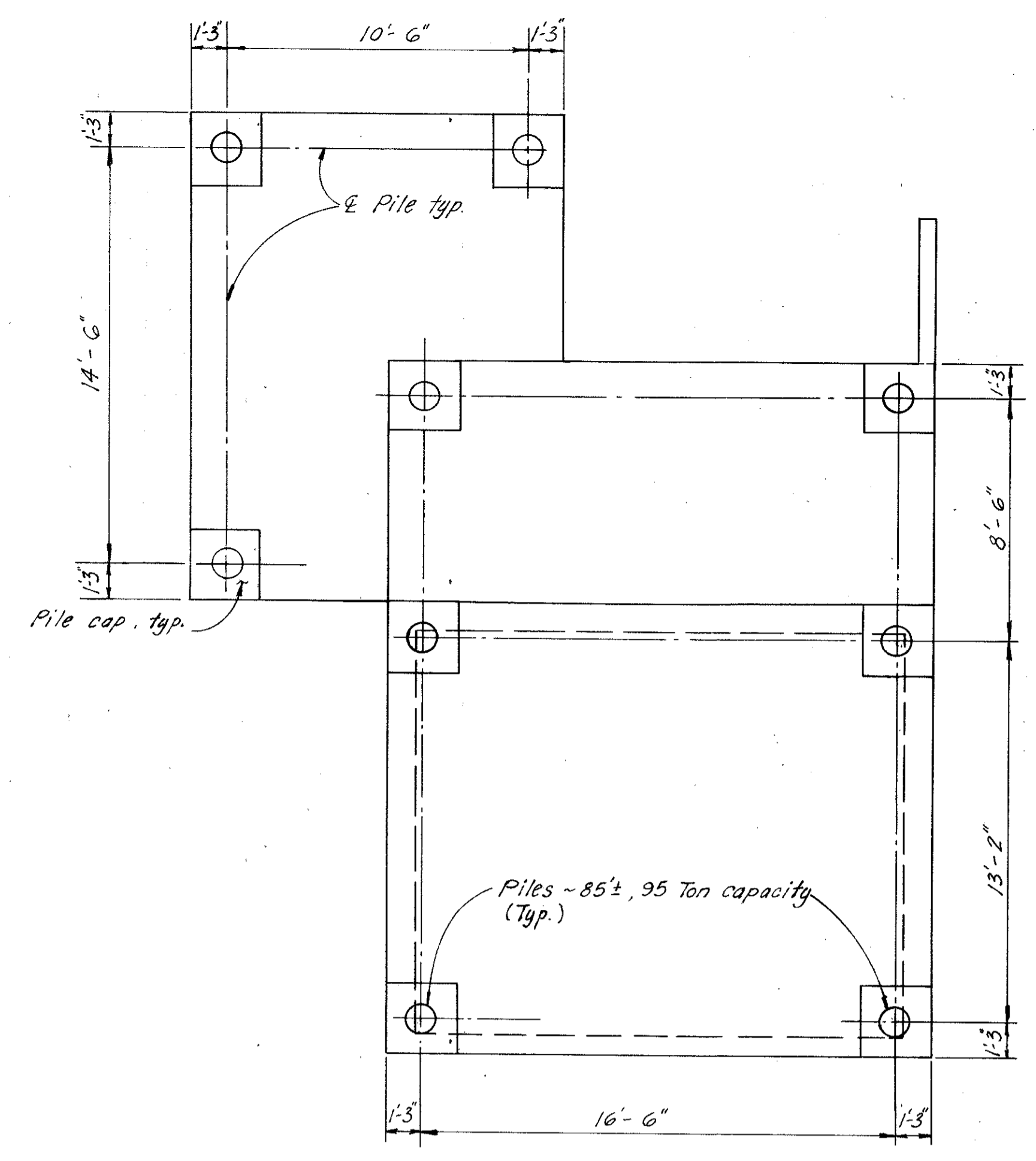
POND PLAN: SCALE: 1"=40'

ASBUILT 1-8-75
 IMPROVEMENT PLAN OF
 EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
 CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA
 SHEET NO. 13 OF 22 SHEETS
 JOB NO. 182-78
 SCALE AS SHOWN
 DATE OCT. 1971
 DESIGNED BY B.A.L.
 CHECKED BY L.E.O.
 DRAWN BY L.E.O.
 APPROVED 12/22
 BY Ely Culbertson

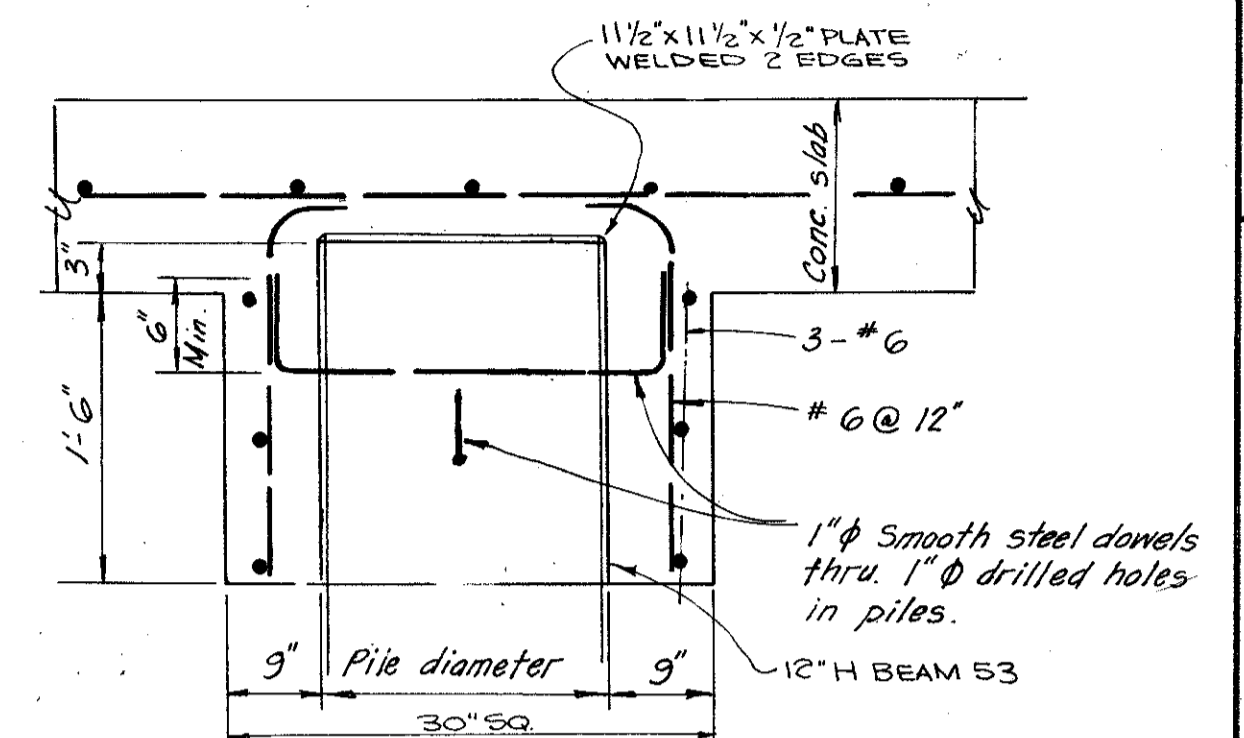
AD-32



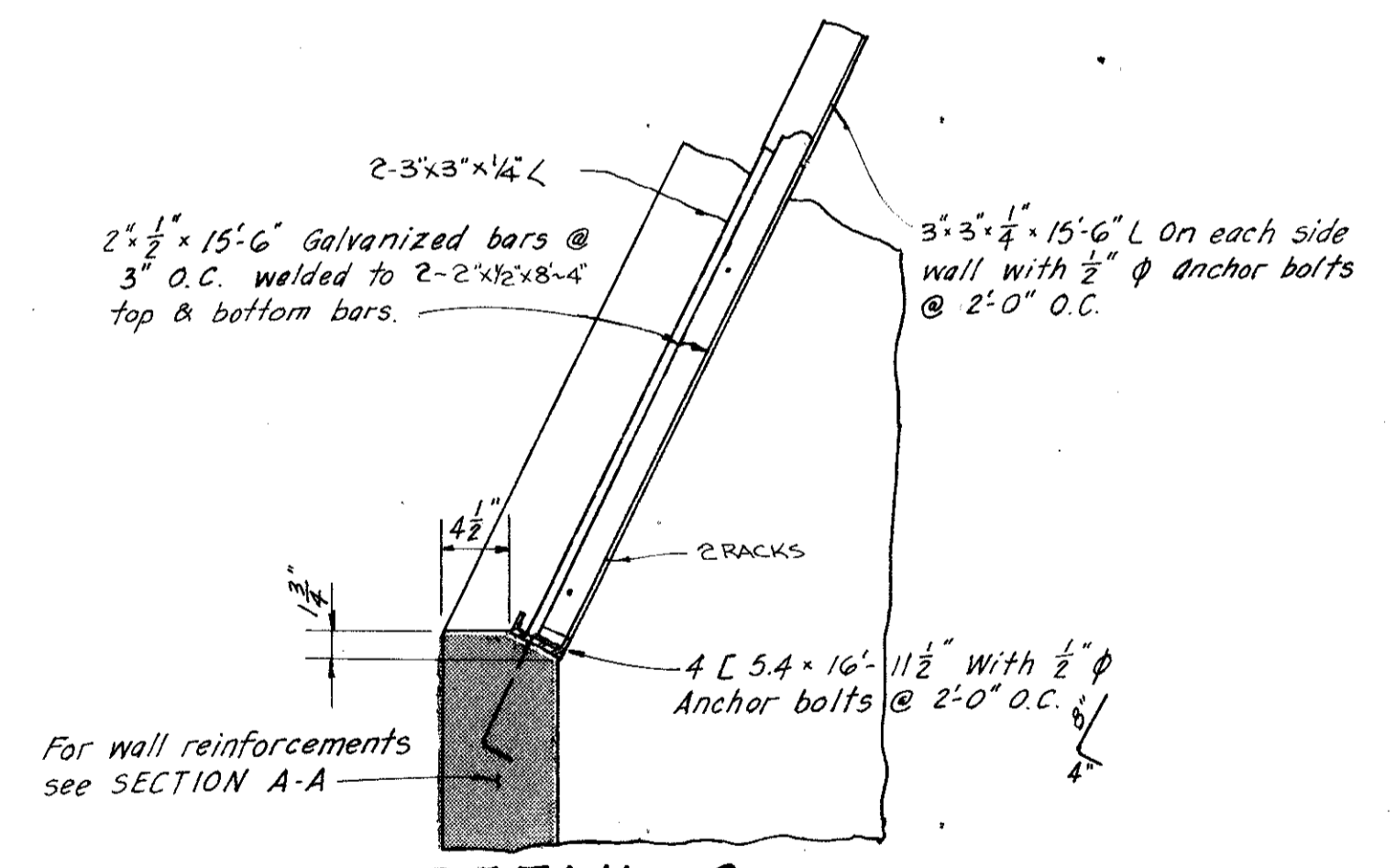
GRATING AND FENCING PLAN
Scale: $\frac{3}{8}'' = 1'-0''$



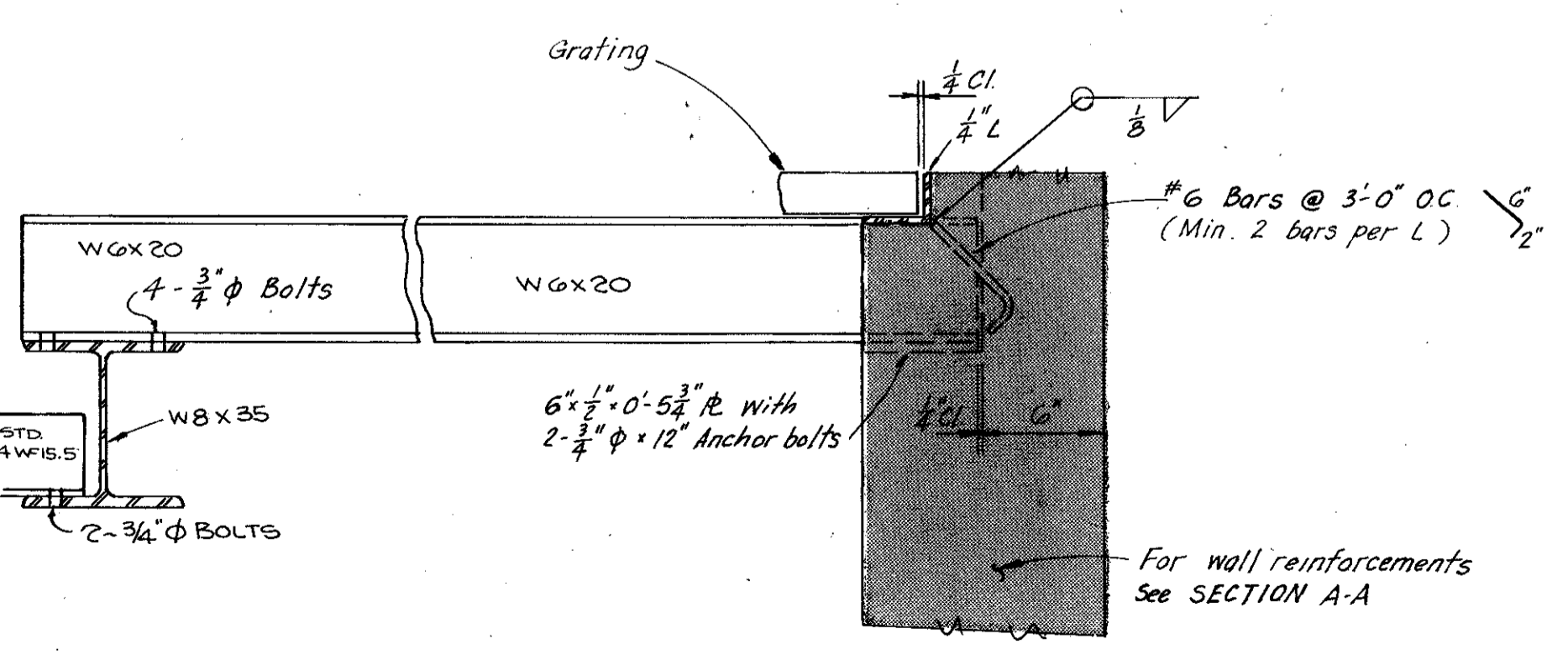
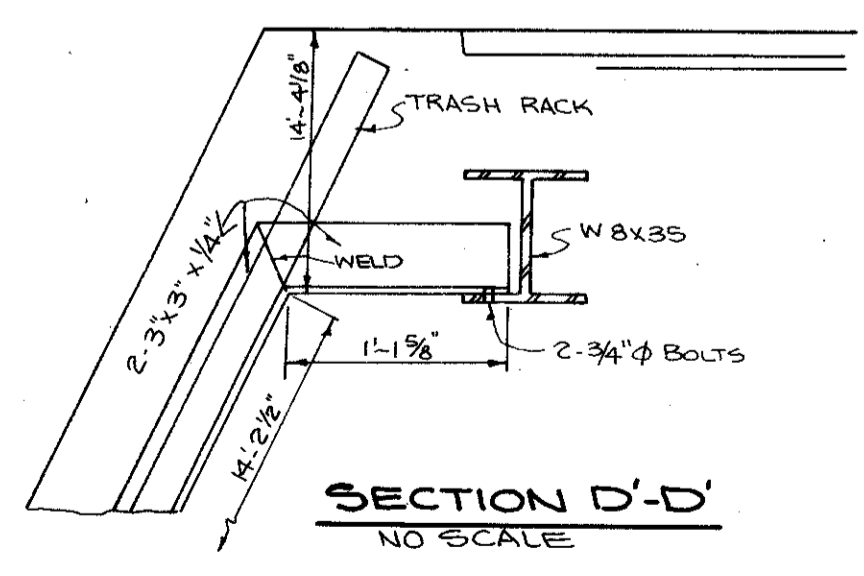
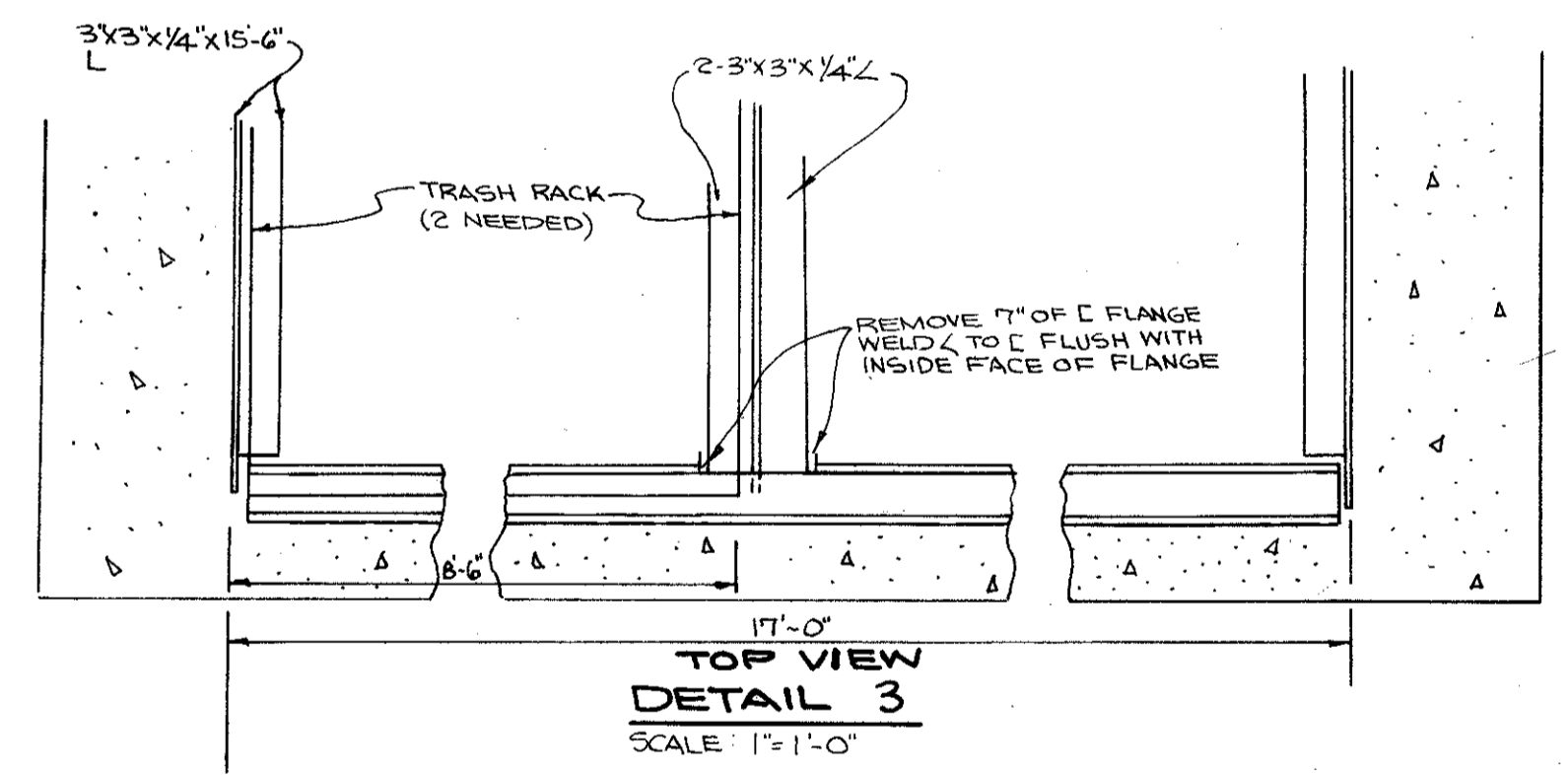
PILE LOCATION PLAN
Scale: $\frac{1}{4}'' = 1'-0''$



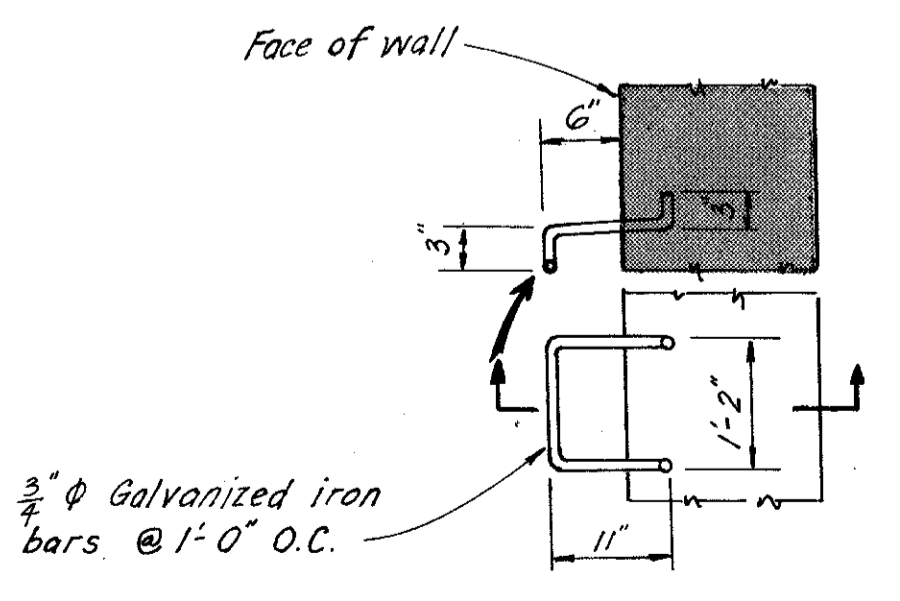
PILE CAP DETAIL
No Scale



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



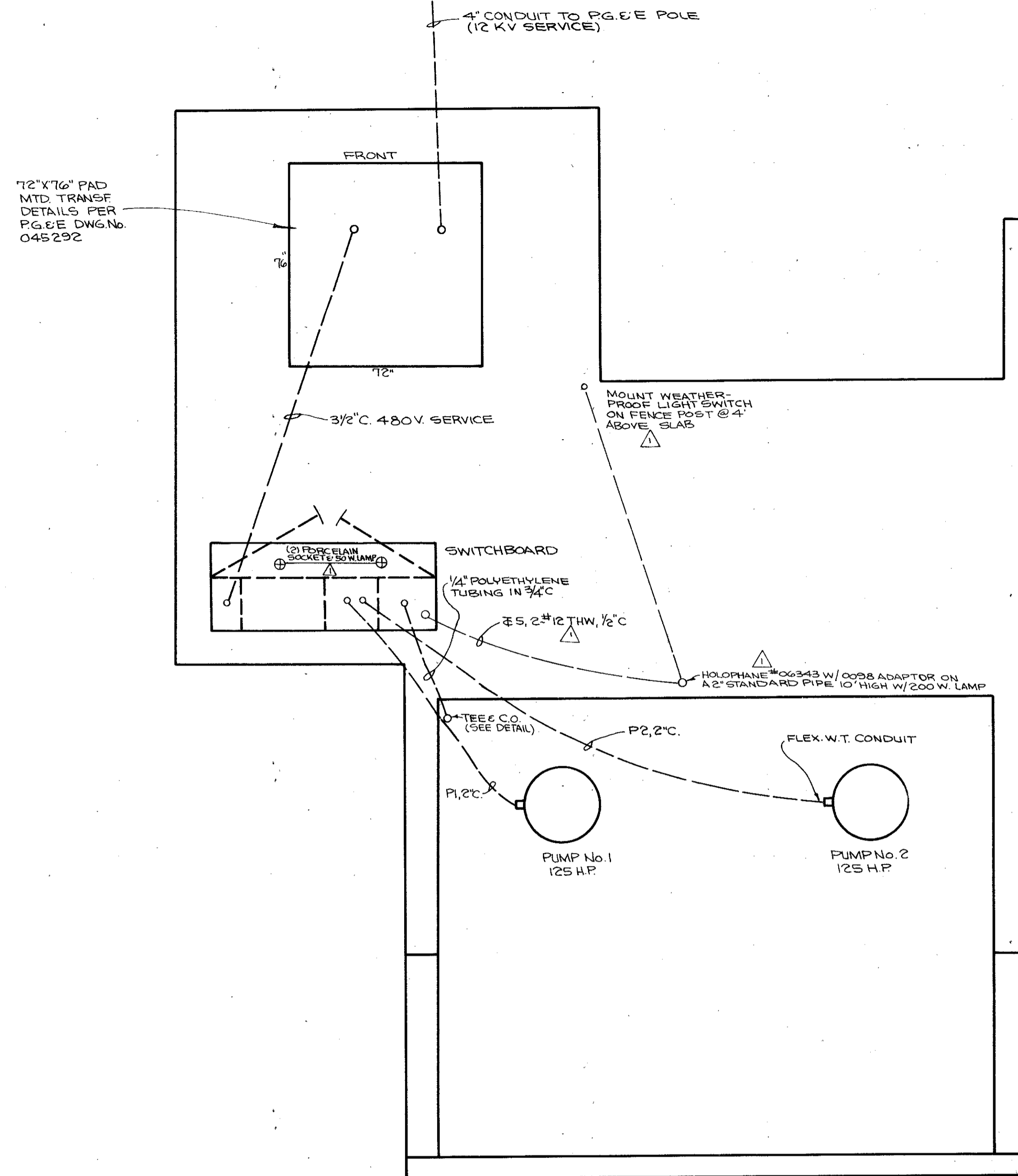
DETAIL - 1
Scale: 1/2" = 1'-0"



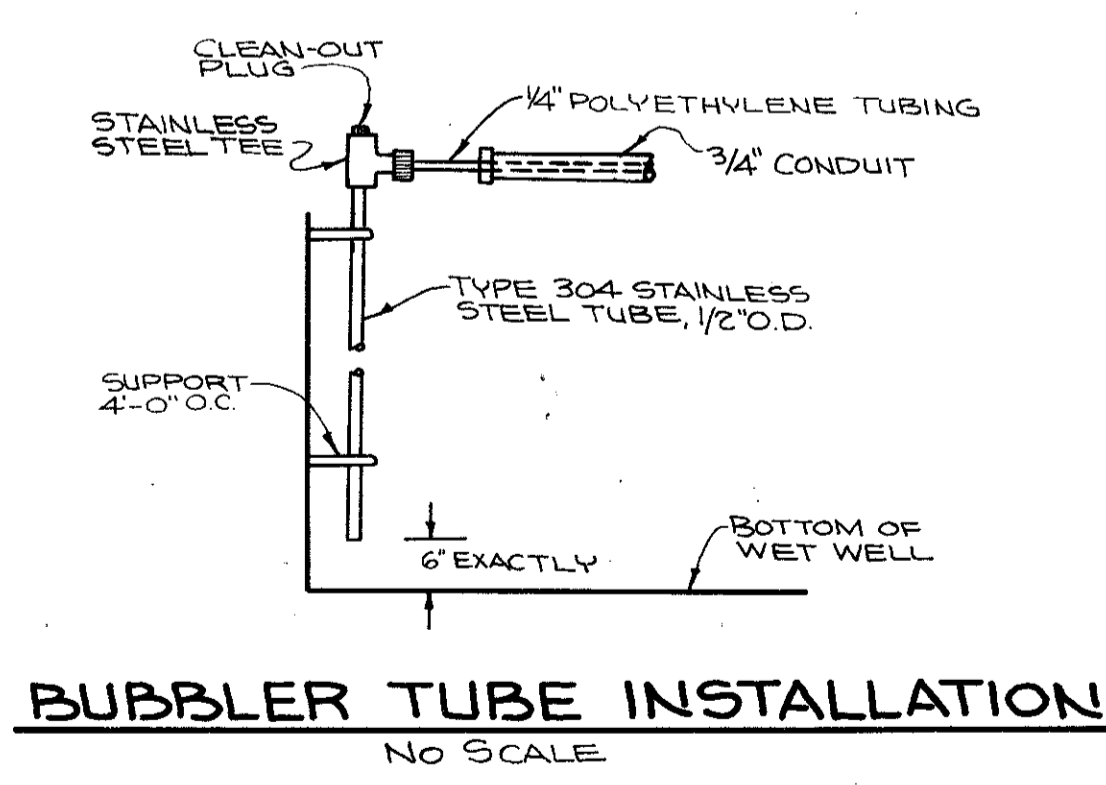
RUNG DETAIL
No Scale

STORM DRAINAGE-PUMPING
PLAN VIEW-SHEET 13

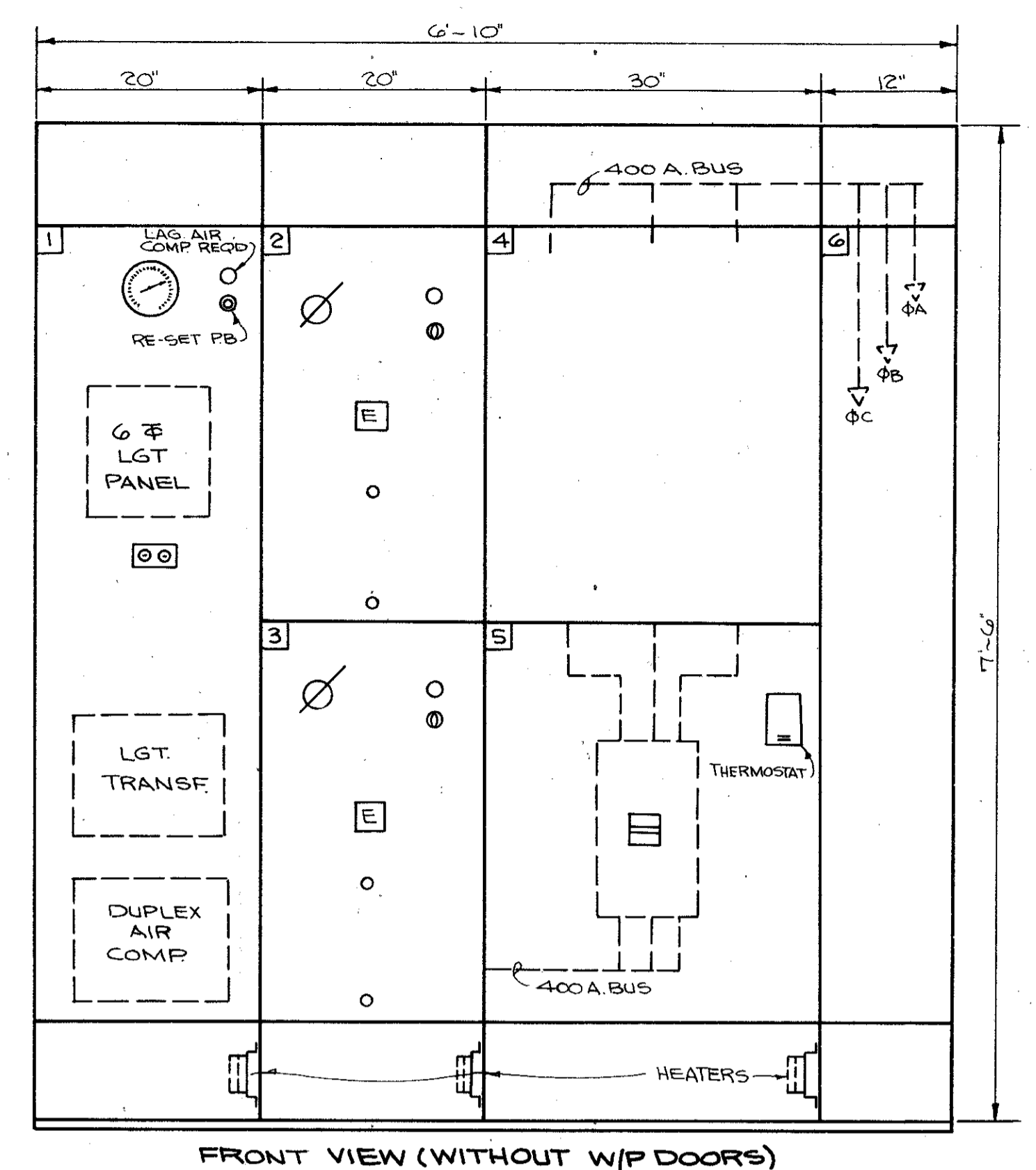
APPROVED 12/22 BY *Ely Culbert*
 G.M.W. A.T.C. G.M.W.
 DRAWN BY CHECKED BY DESIGNED BY DATE OCT. 1971 SCALE AS NOTED
 GONZALEZ & OBERKAMPER CIVIL ENGINEERS INC.
 IMPROVEMENT PLAN OF EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT NO. 1
 CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA
 SHEET NO. 15 OF 22 SHEETS
 ASBUILT 1-8-75
 AD-32 JOB NO. 182-68



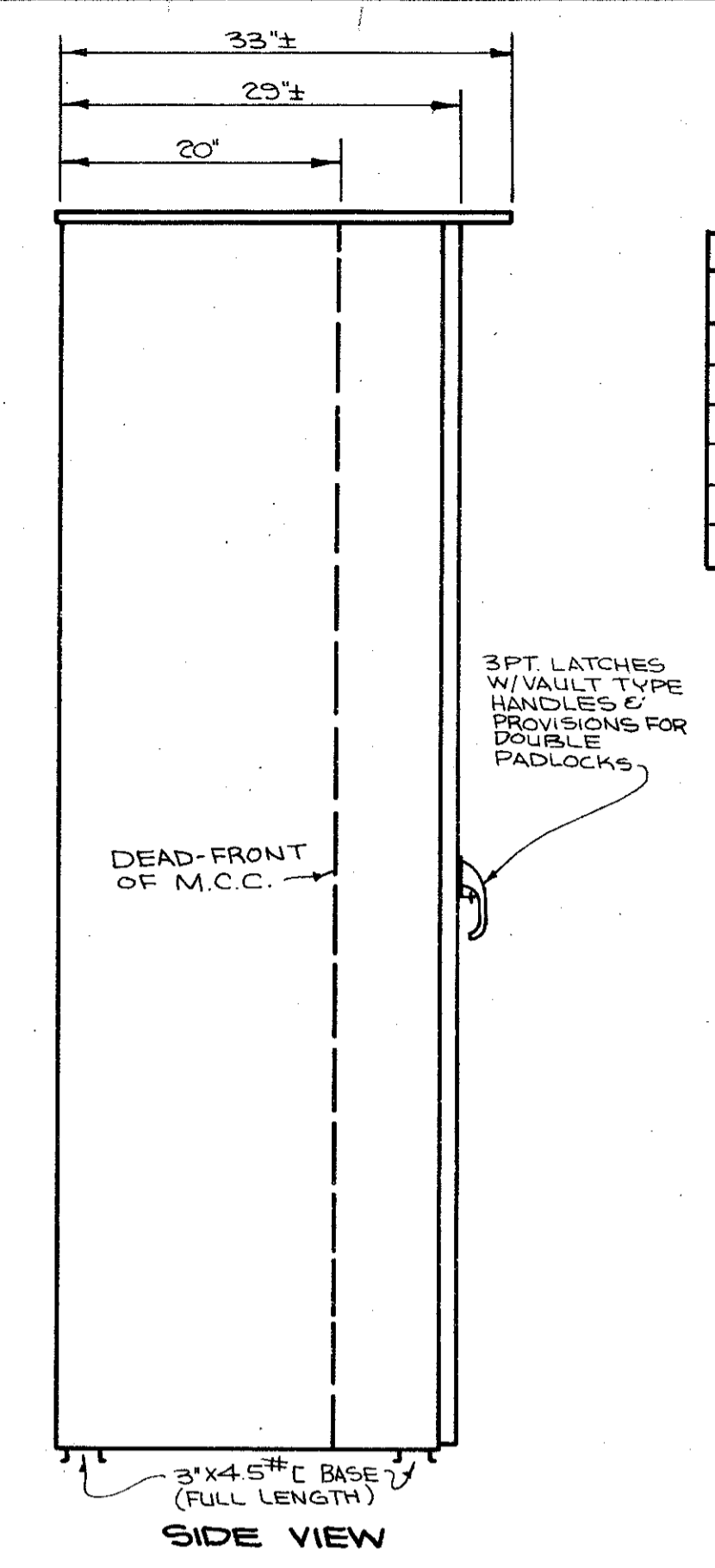
PLAN



BUBBLER TUBE INSTALLATION
NO SCALE

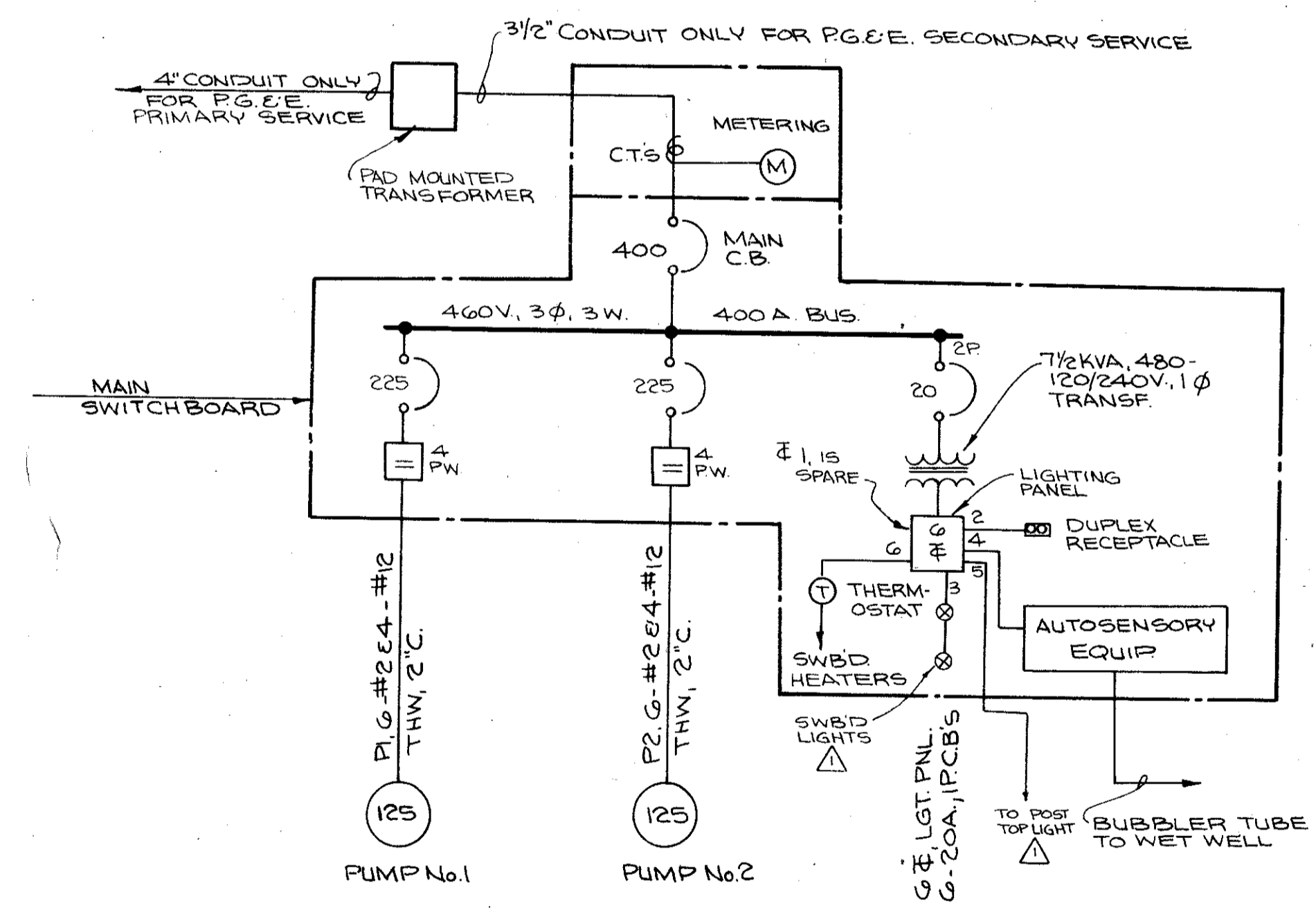


FRONT VIEW (WITHOUT W/P DOORS)
MAIN SWITCHBOARD

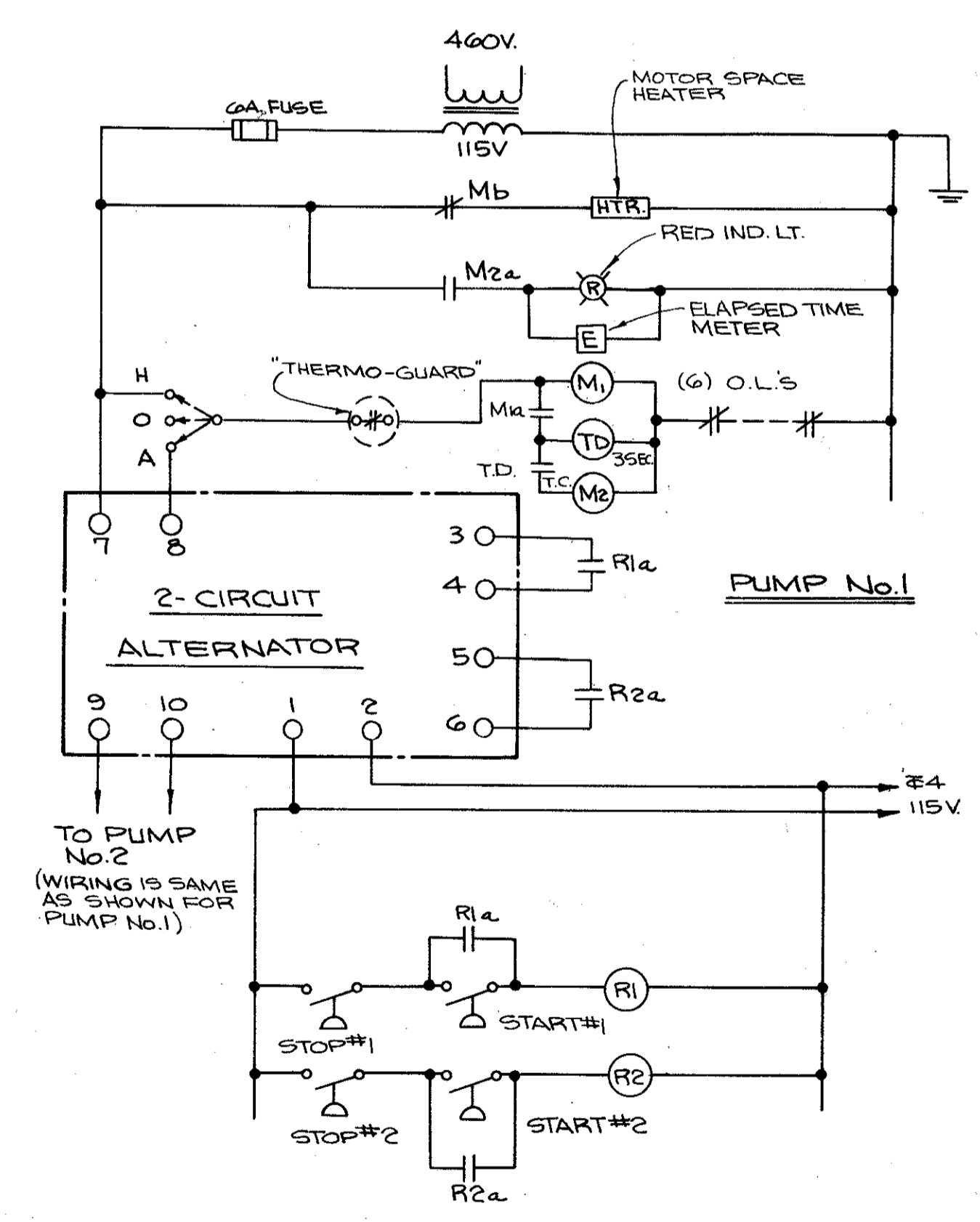


SIDE VIEW

NAMEPLATE LIST	
No.	ENGRAVING
1	AUTOSENSORY EQUIPMENT
2	PUMP No. 1
3	PUMP No. 2
4	MAIN CIRCUIT BREAKER
5	METERING EQUIPMENT
6	VERTICAL PULL SECTION

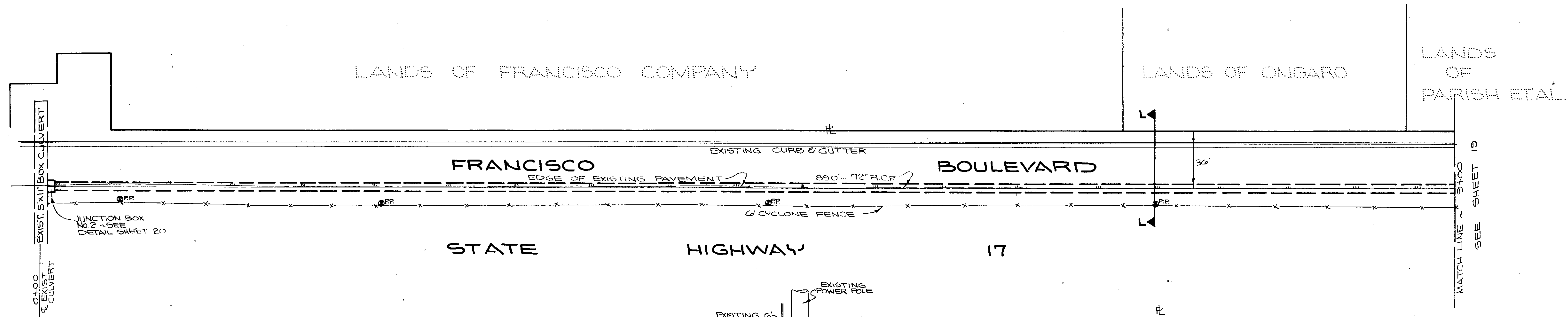


ONE-LINE-DIAGRAM



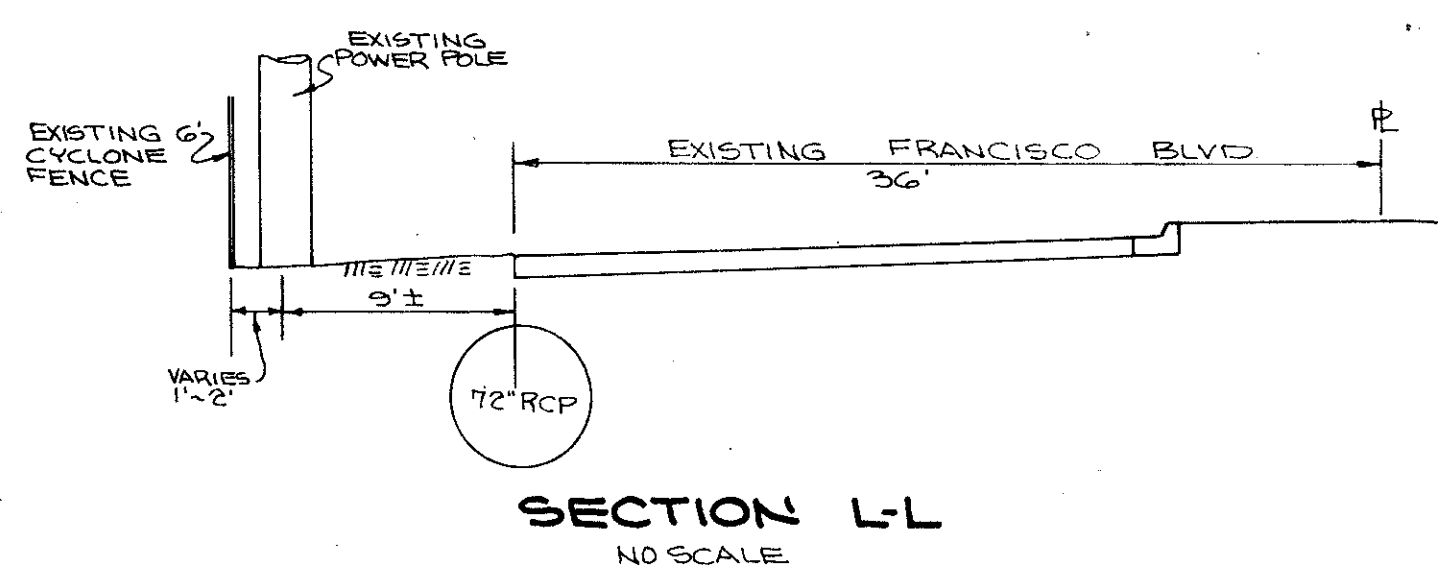
ELEMENTARY WIRING DIAGRAM

APPROVED 12/22 BY *E. J. Maggipinto*
 DRAWN BY *E. J. Maggipinto*, E.E. 1051
 CHECKED BY *L. O. Gonzalez*, E.E. 1051
 DESIGNED BY *A. T. C.*
 DATE *DEC 1971*
 SCALE *NONE*
GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.
 IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
 CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA
 SHEET NO. **16**
 OF 22 SHEETS
 JOB NO. 182-68

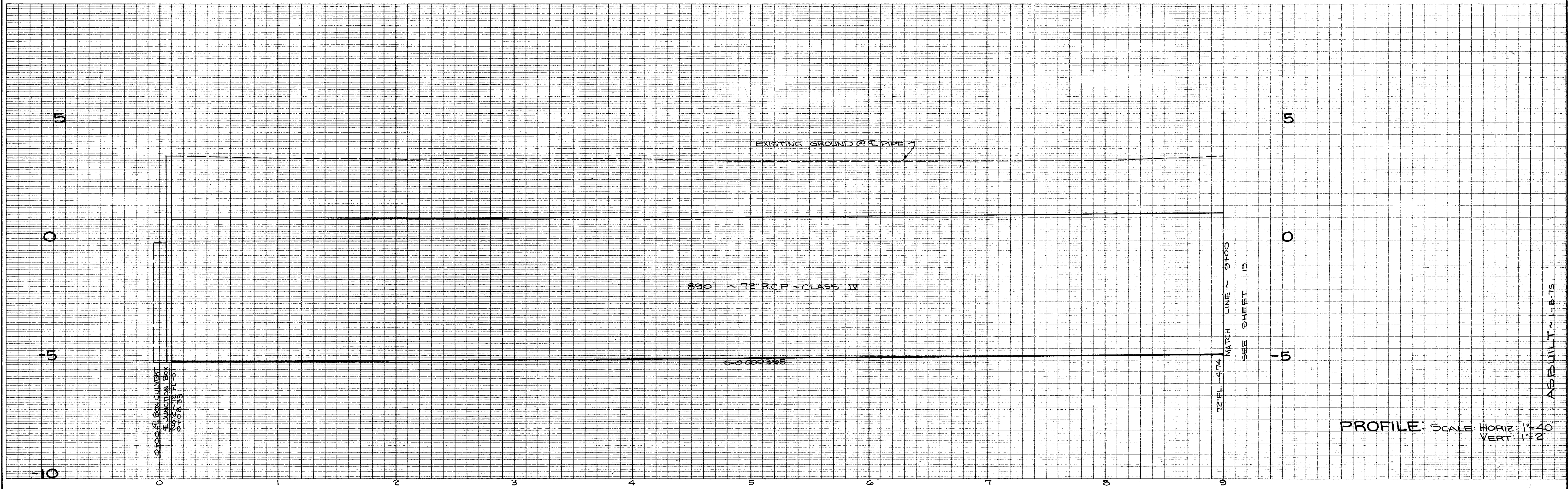


NOTE: CONTRACTOR TO MAKE PROVISIONS TO PROTECT EXISTING FENCE AND POWER POLES (PP)

PLAN: SCALE: 1"=40'



SECTION L-L
NO SCALE



PROFILE: SCALE: HORIZ: 1"=40'
VERT: 1"=10'

APPROVED: 12/2/22
BY: *Ely Culbert*

DRAWN BY: *AJ*
CHECKED BY: *l.e.o.*
DESIGNED BY: *B.K.L.*
DATE: OCT. 1971
SCALE: AS SHOWN

**GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.**

REG. C.E. 12094

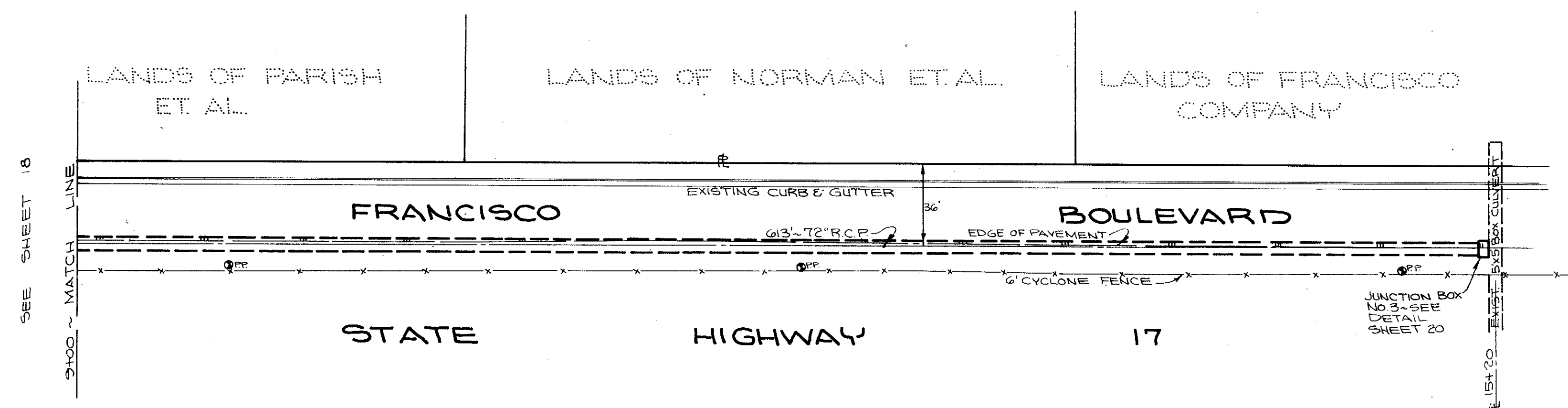
IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1

CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

SHEET No. **13**
OF 22 SHEETS

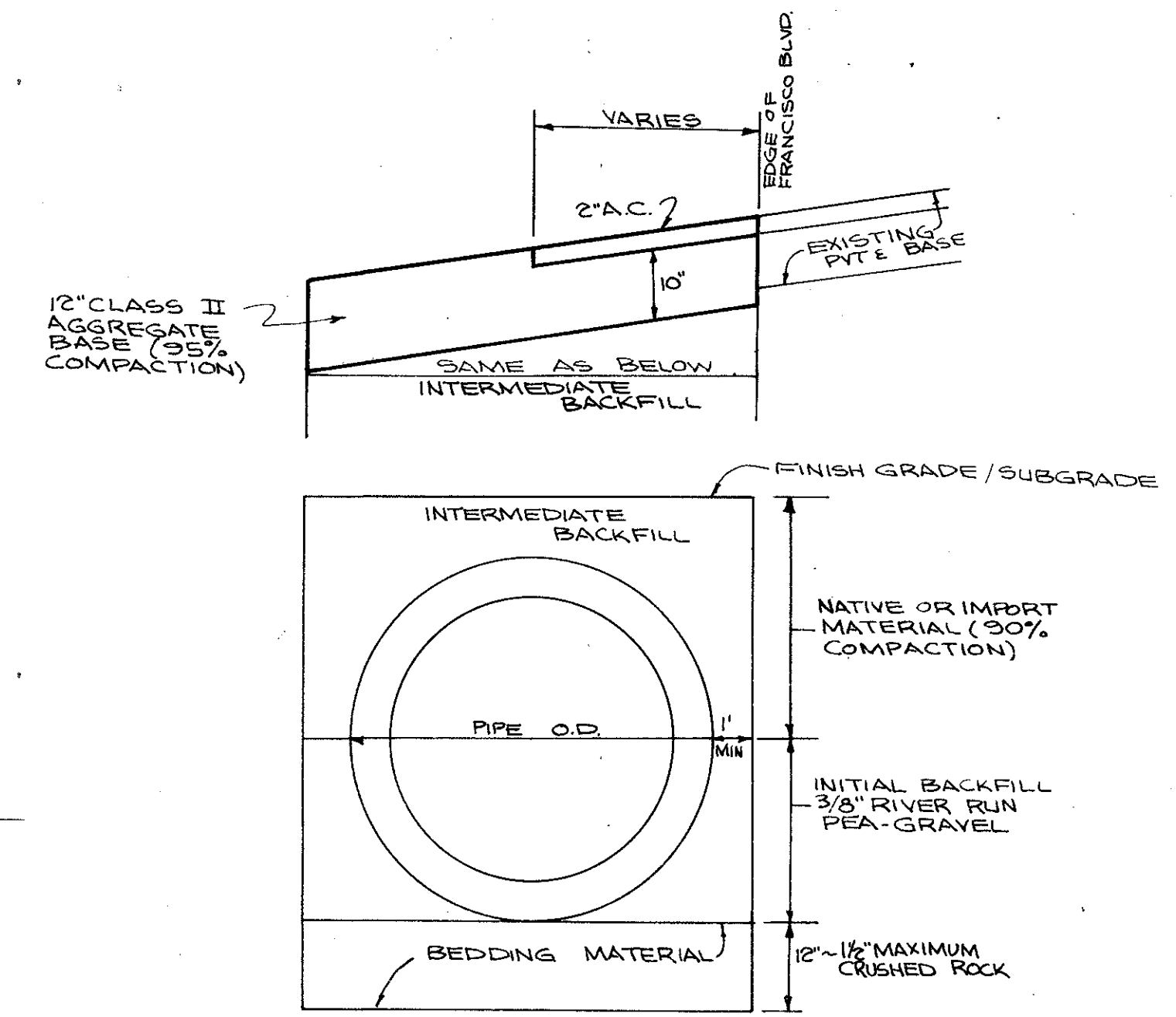
AS BUILT - 11-8-75

AD-32



PLAN: SCALE 1"=40'

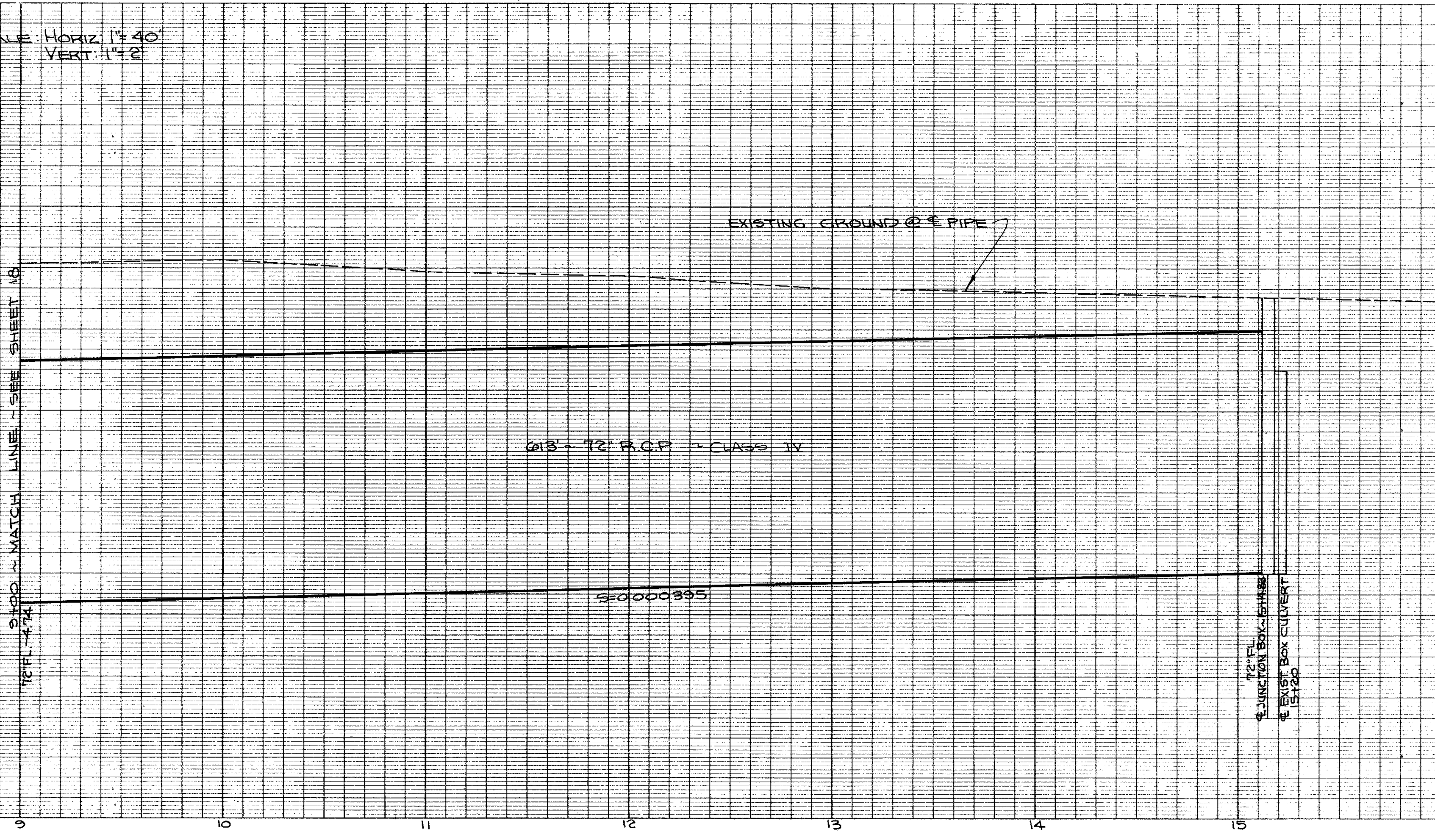
NOTE: CONTRACTOR TO MAKE PROVISIONS TO PROTECT EXISTING FENCE AND POWER POLES (PP)



STORM DRAIN TRENCH DETAIL
NO SCALE

NOTE: ALL BACKFILL MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT

PROFILE: SCALE: HORIZ. 1"=40'
VERT. 1"=2'



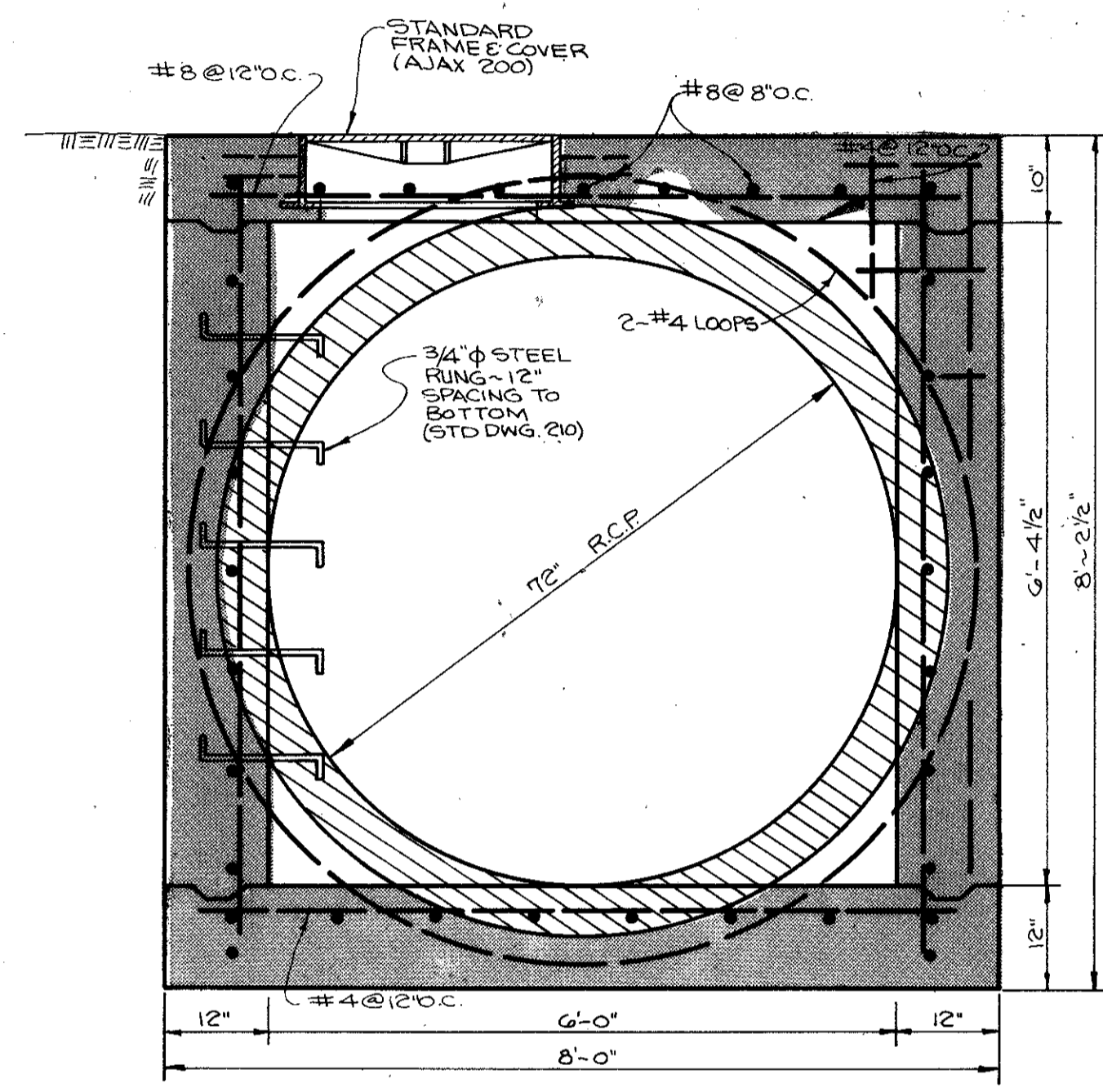
ASBUILT 11-18-75

IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

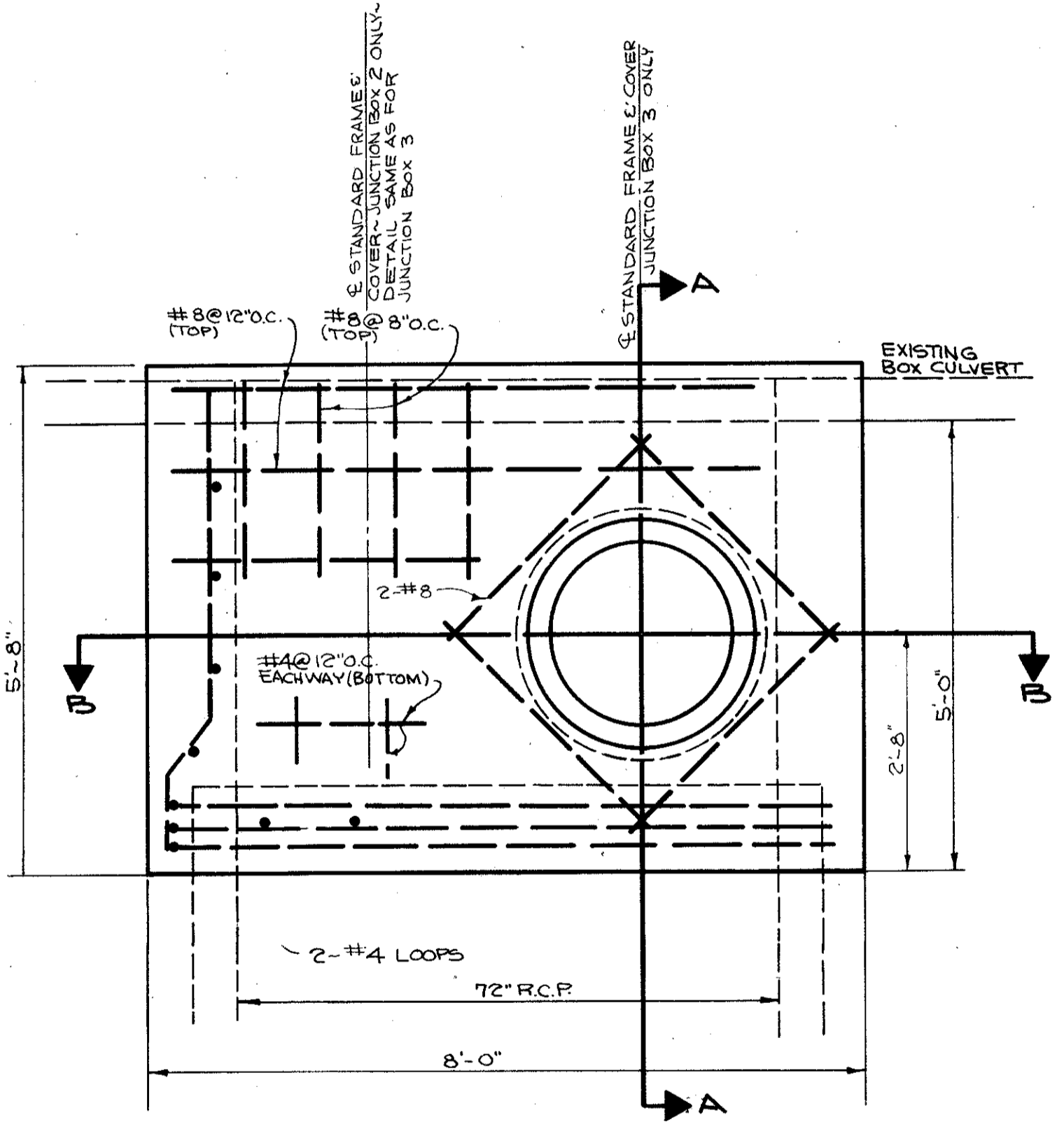
GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.

DRAWN BY J
CHECKED BY I.C.O.
DESIGNED BY E.K.L.
DATE OCT. 1971
SCALE AS SHOWN

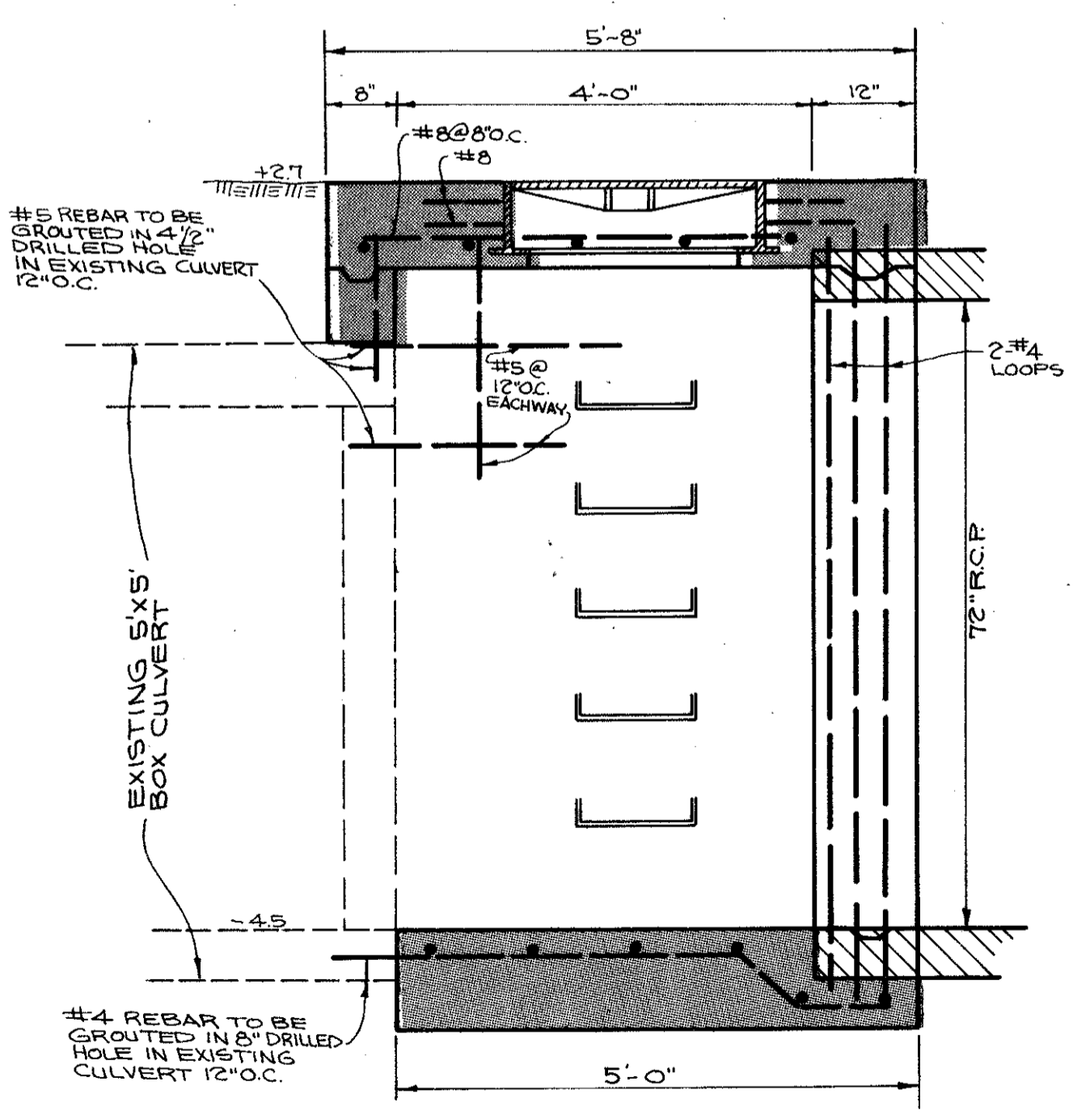
APPROVED 12/22/71
BY Ely Culbertson



SECTION B-B

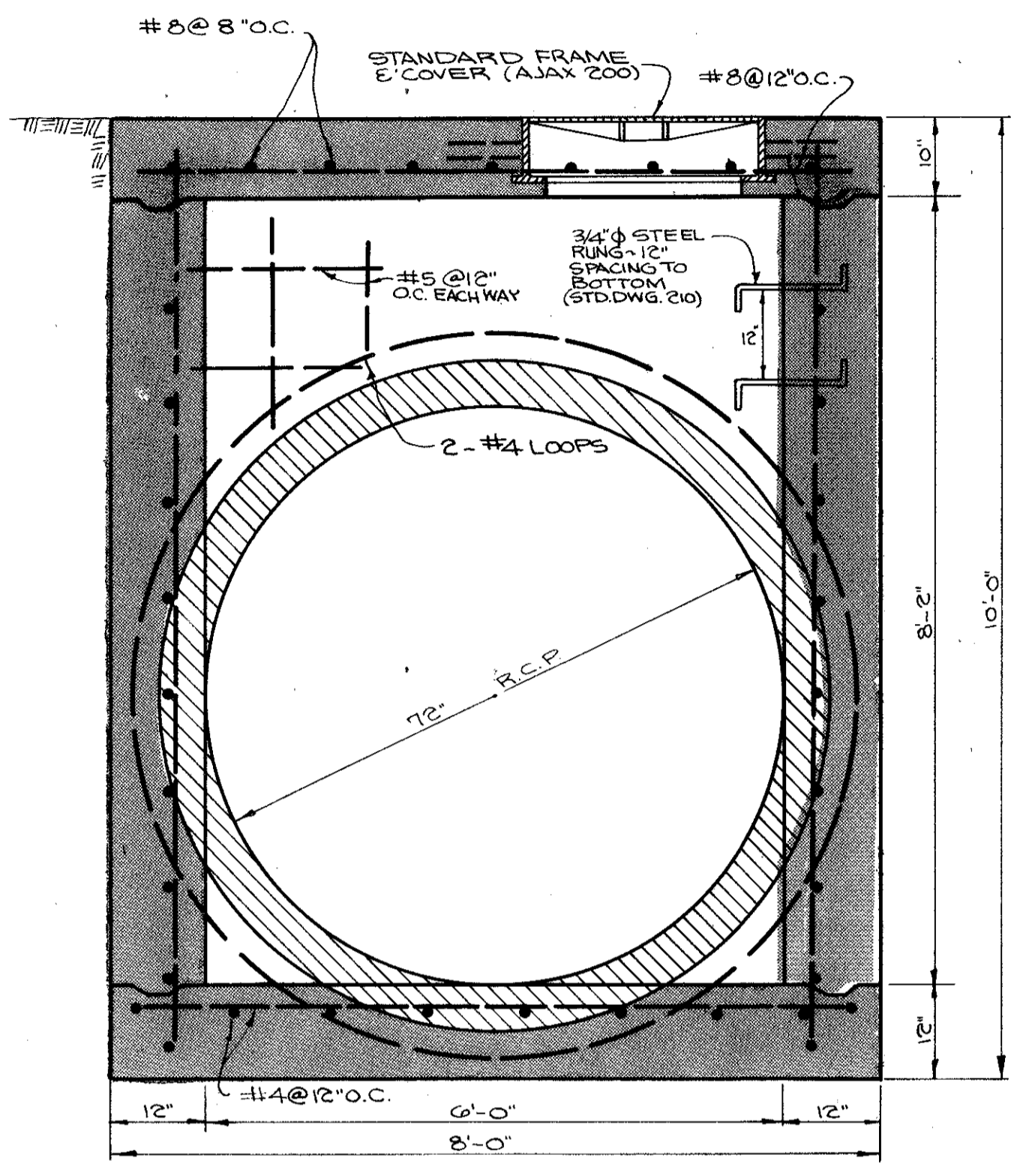


PLAN - JUNCTION BOX 2 & 3
SCALE: 1"=1'-6"

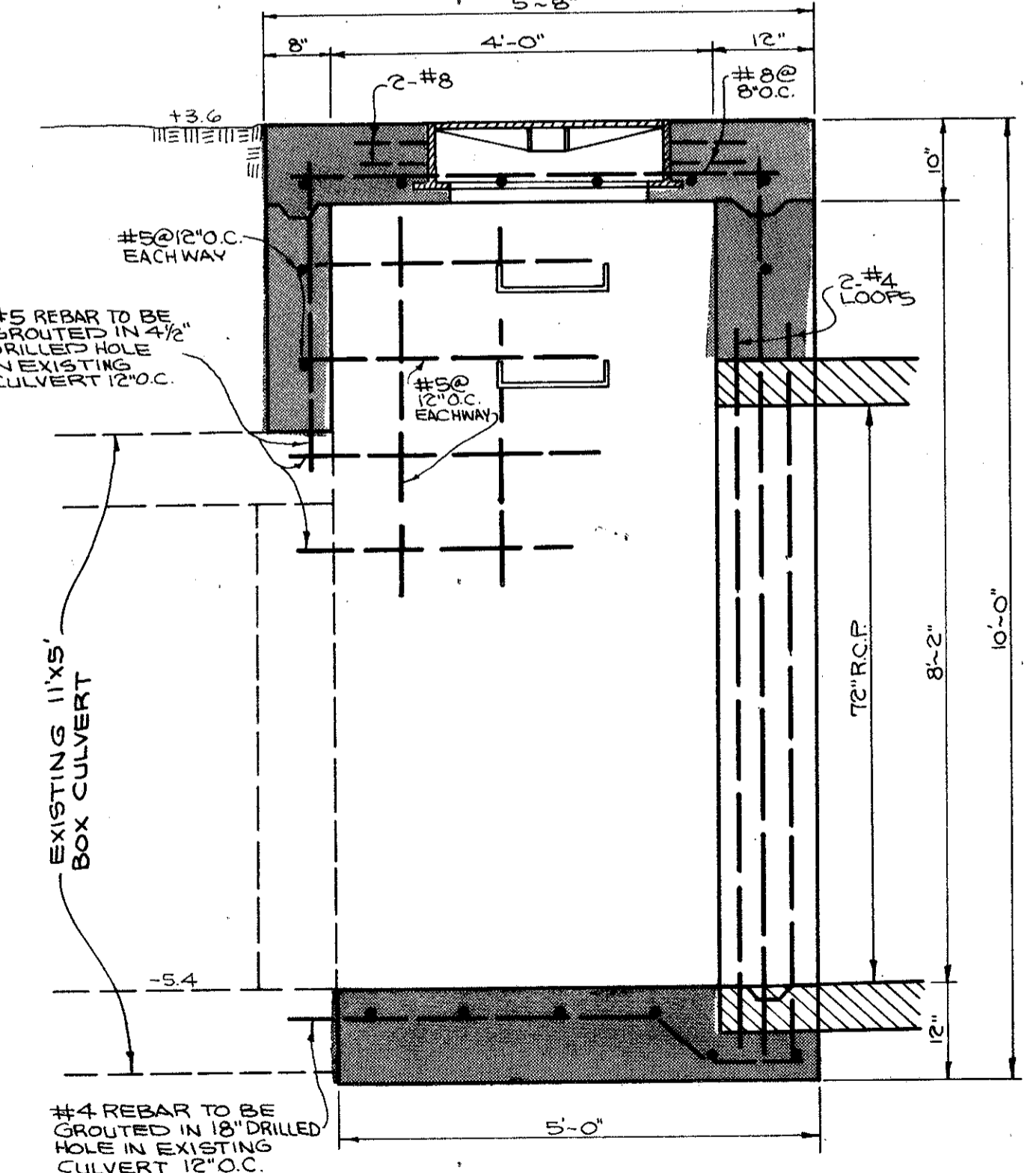


SECTION A-A

JUNCTION BOX No. 3
SCALE: 1"=1'-6" - PLAN VIEW SHEET 19

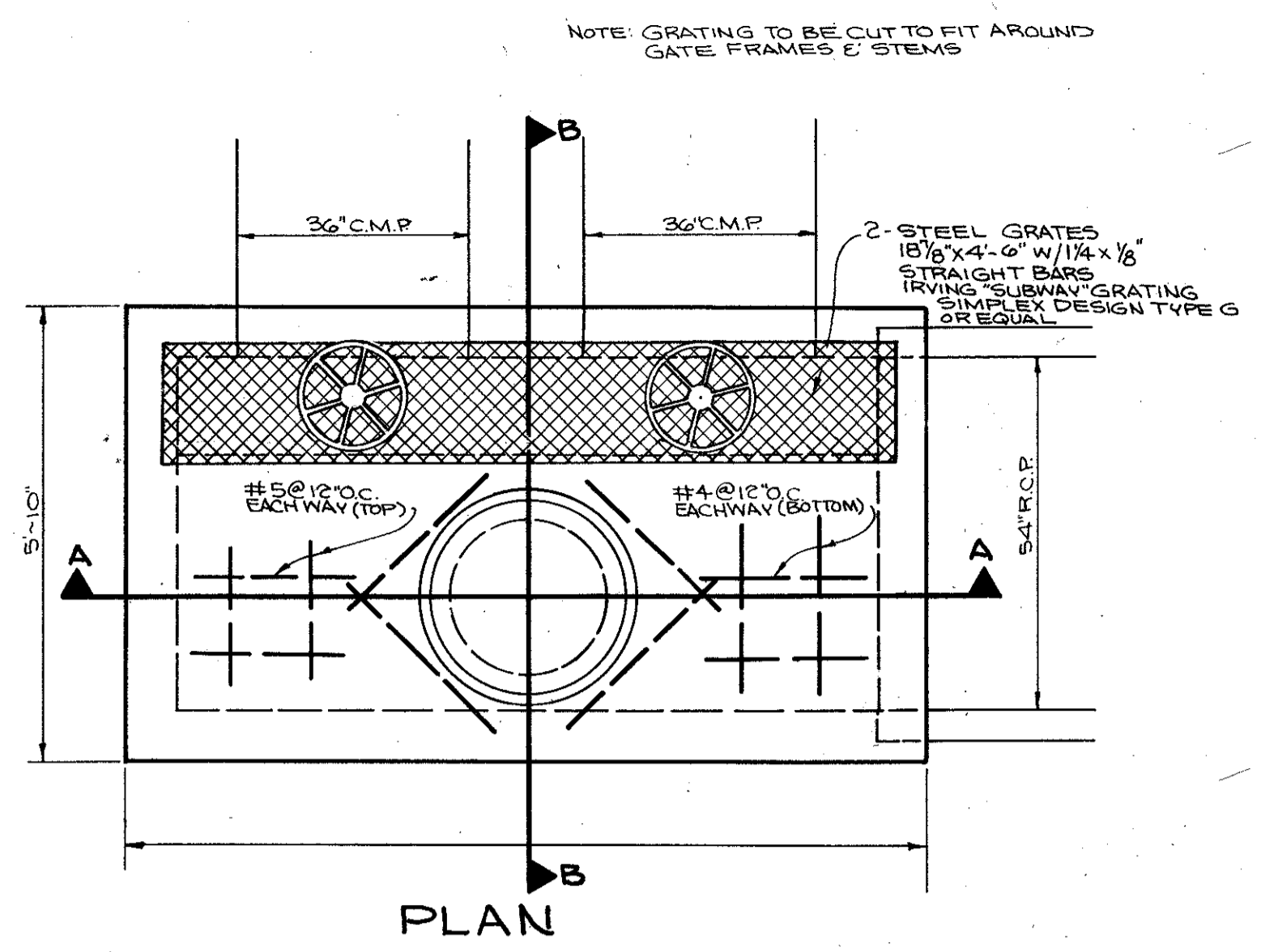


SECTION B-B

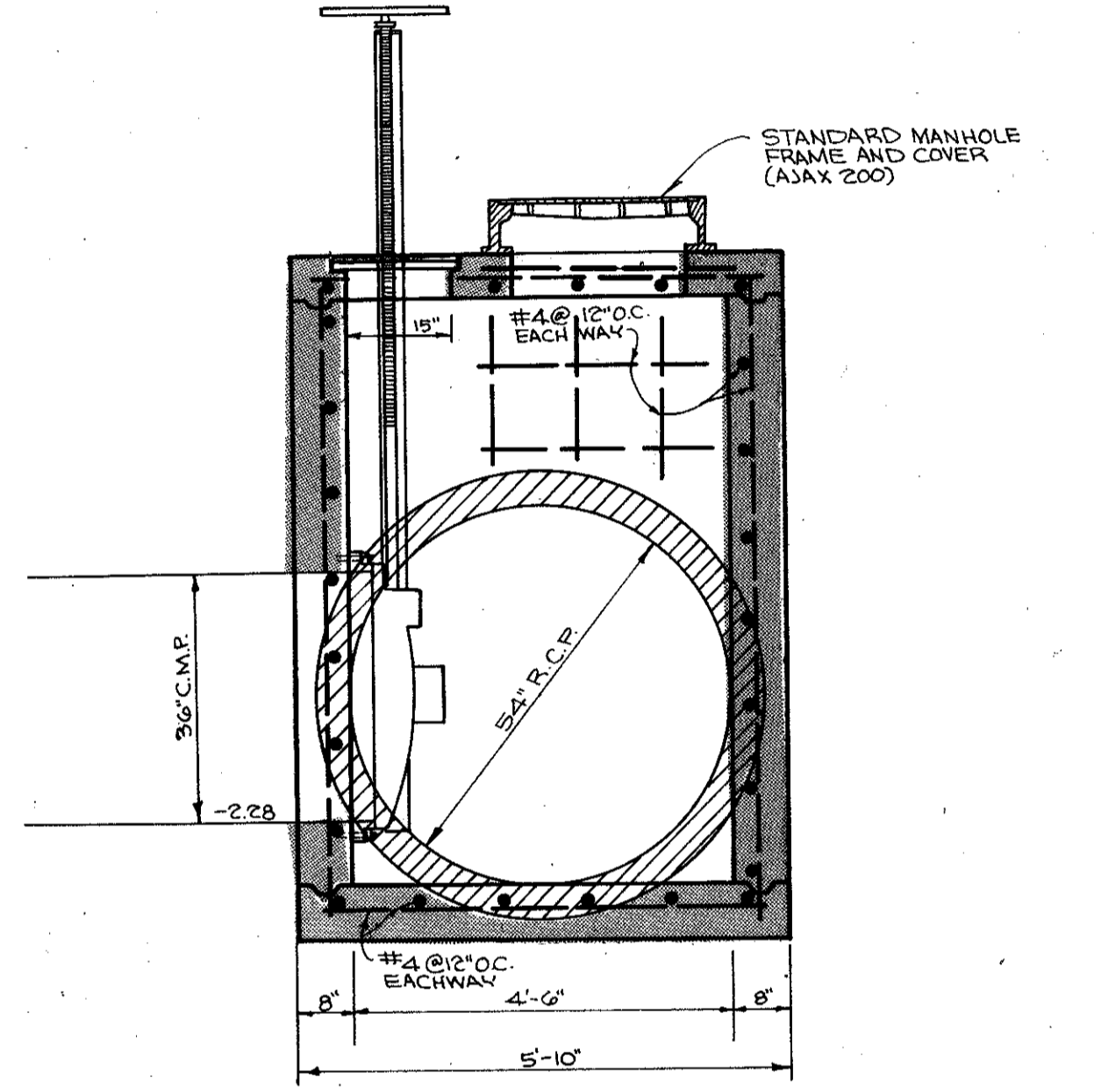


SECTION A-A

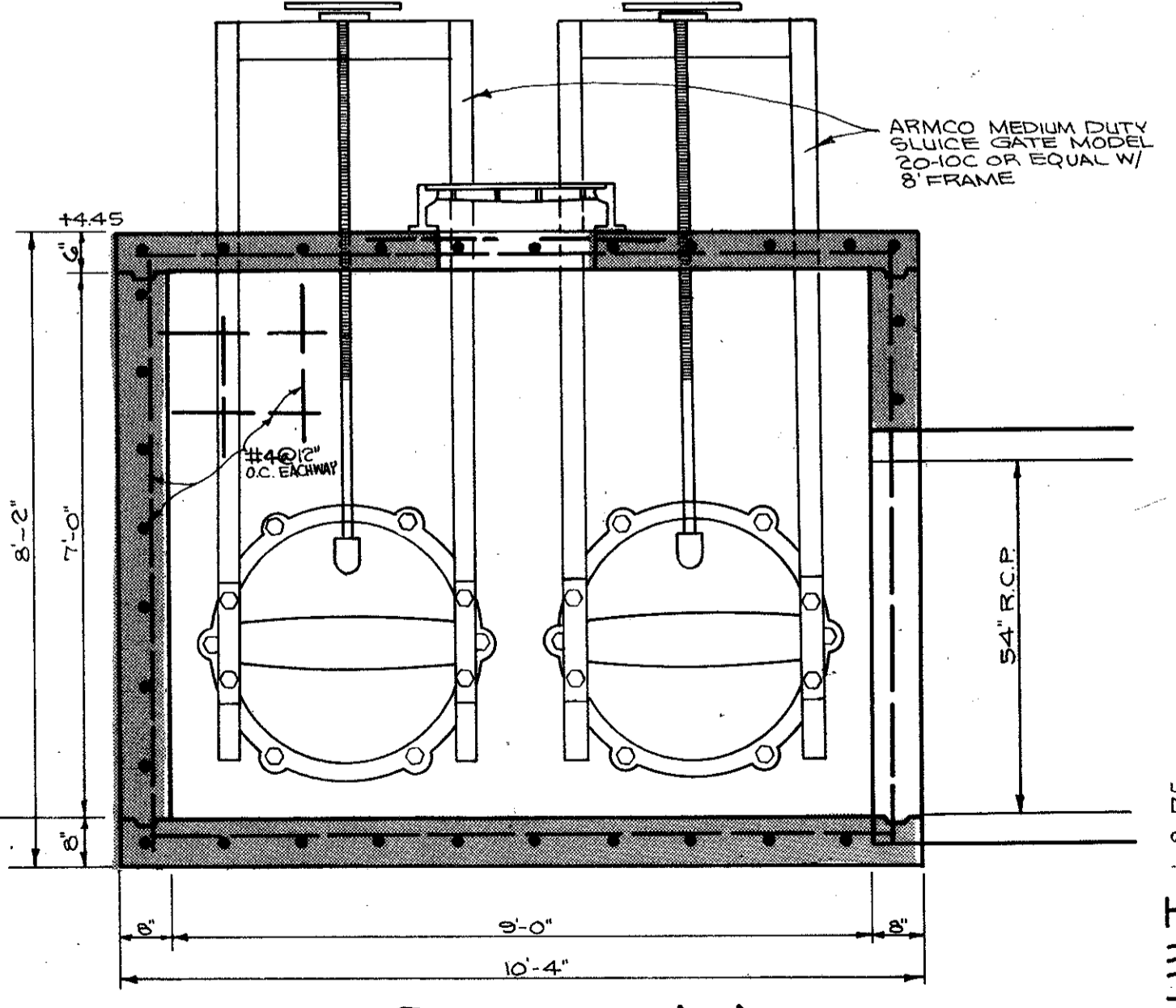
JUNCTION BOX No. 2
SCALE: 1"=1'-6" - PLAN VIEW SHEET 18



PLAN



SECTION B-B



SECTION A-A

JUNCTION BOX No. 1 - PLAN VIEW SHEET 7
SCALE: 1/2"=1'-0"

NOTE: GRATING TO BE CUT TO FIT AROUND GATE FRAMES & STEMS

APPROVED 12/22
BY: *Ely Culbertson*

DRAWN BY: L.C.O.
CHECKED BY: B.K.L.
DESIGNED BY: B.K.L.
DATE: OCT. 1971
SCALE: AS NOTED

**GONZALEZ/OBERKAMPER
CIVIL ENGINEERS INC.**

REG. C.E. 12094

IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1

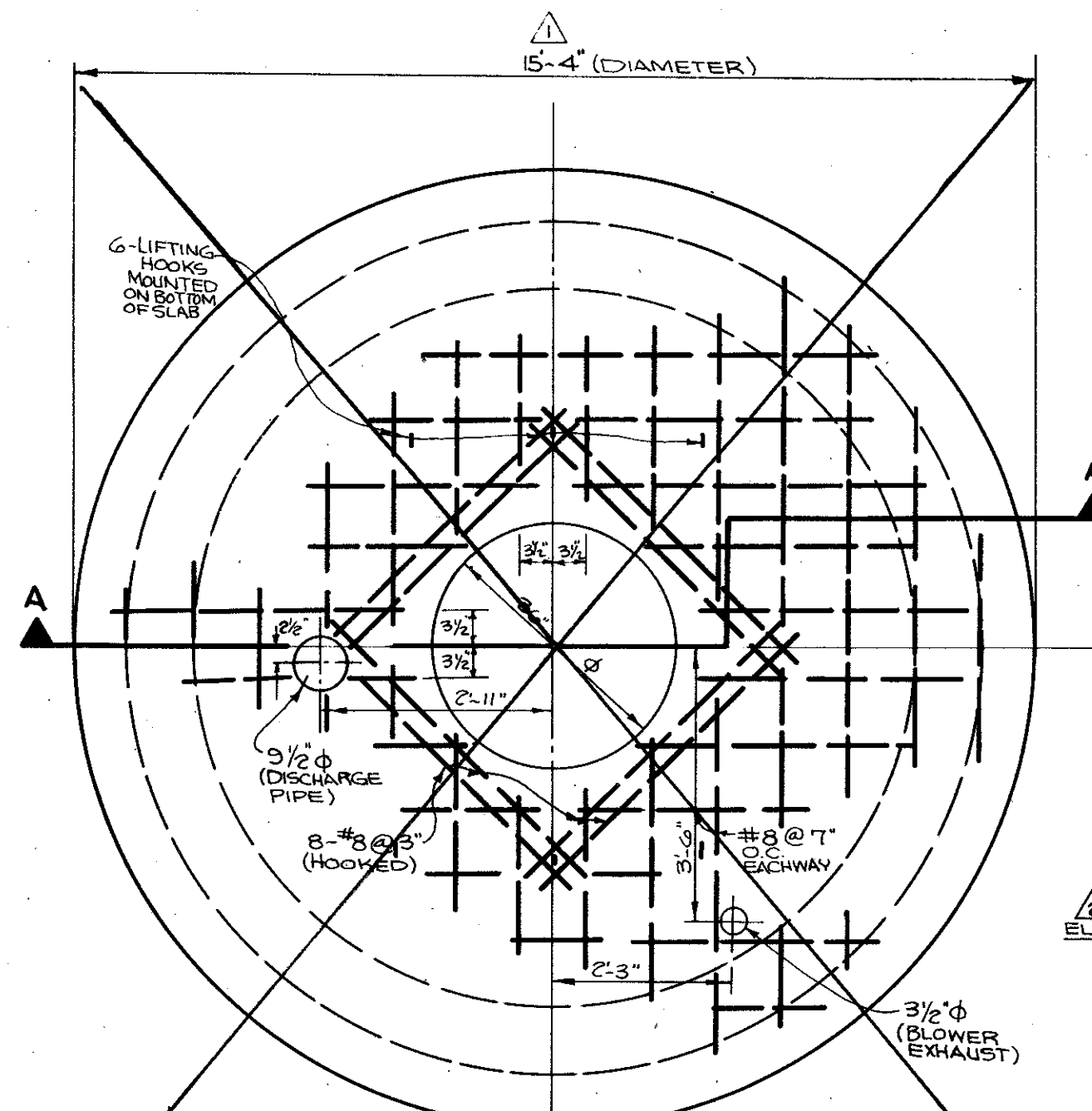
AS BUILT - 11-8-75

CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

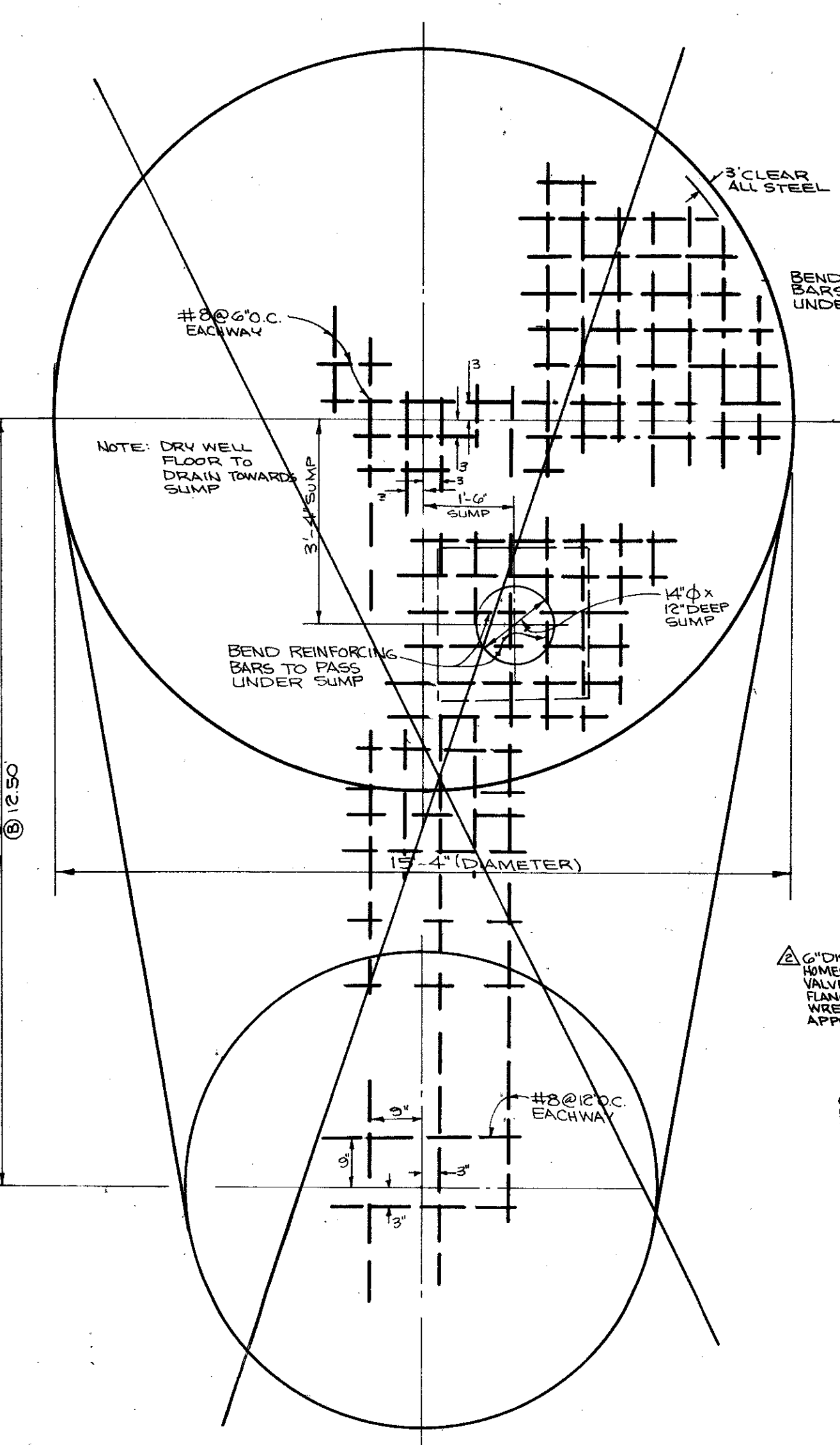
SHEET NO. **2**
OF 22 SHEETS

AD-32

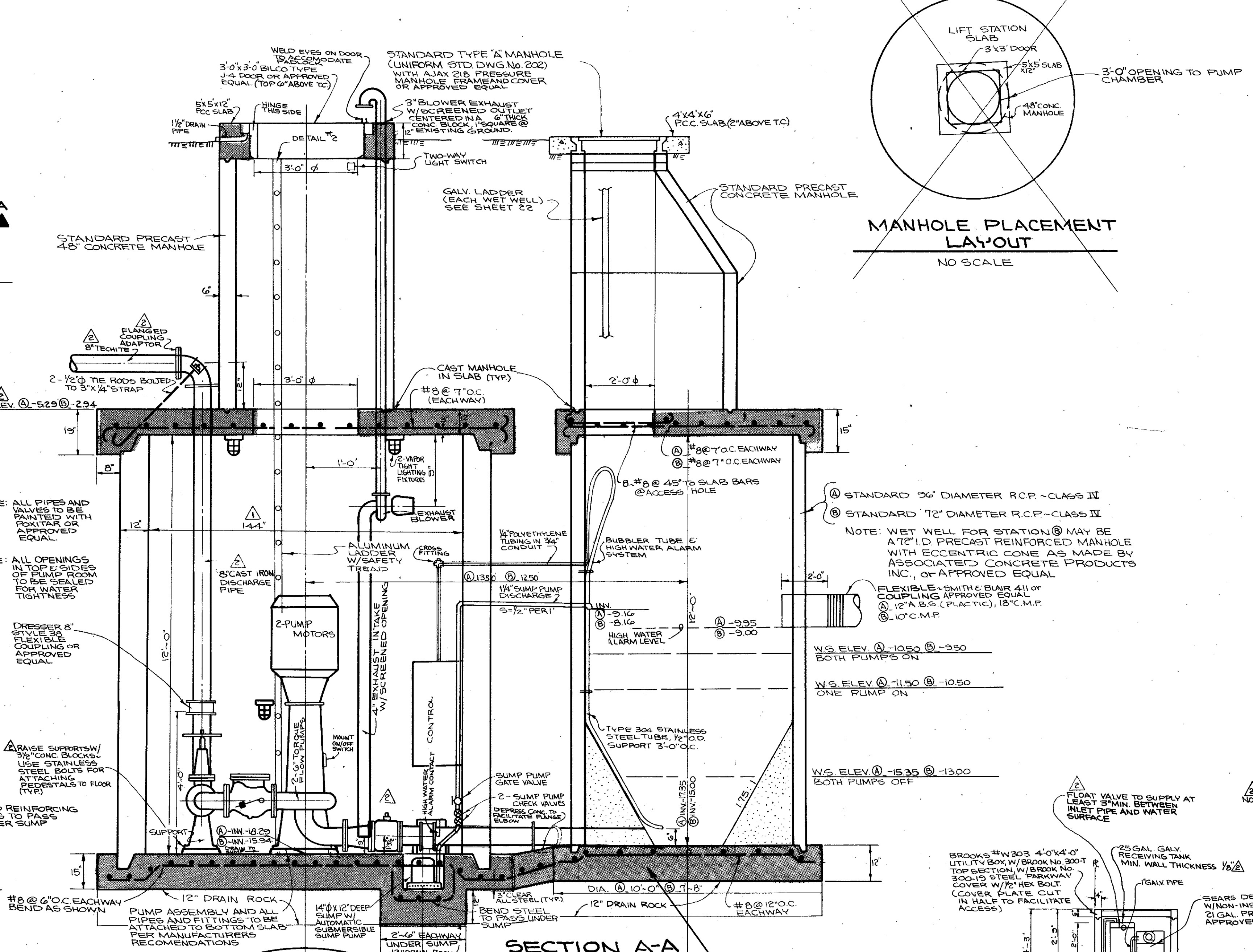
JOB NO. 182-78



TOP SLAB
SEE SHEET 22



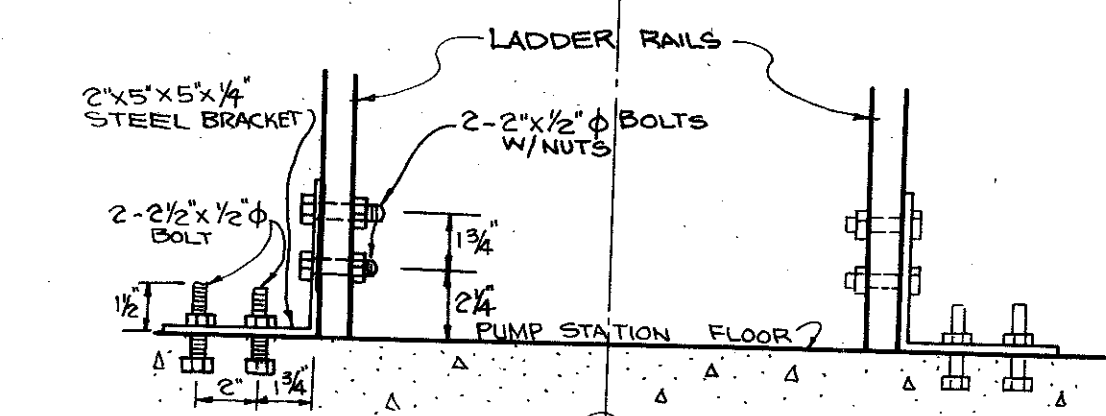
SEE SHEET 22



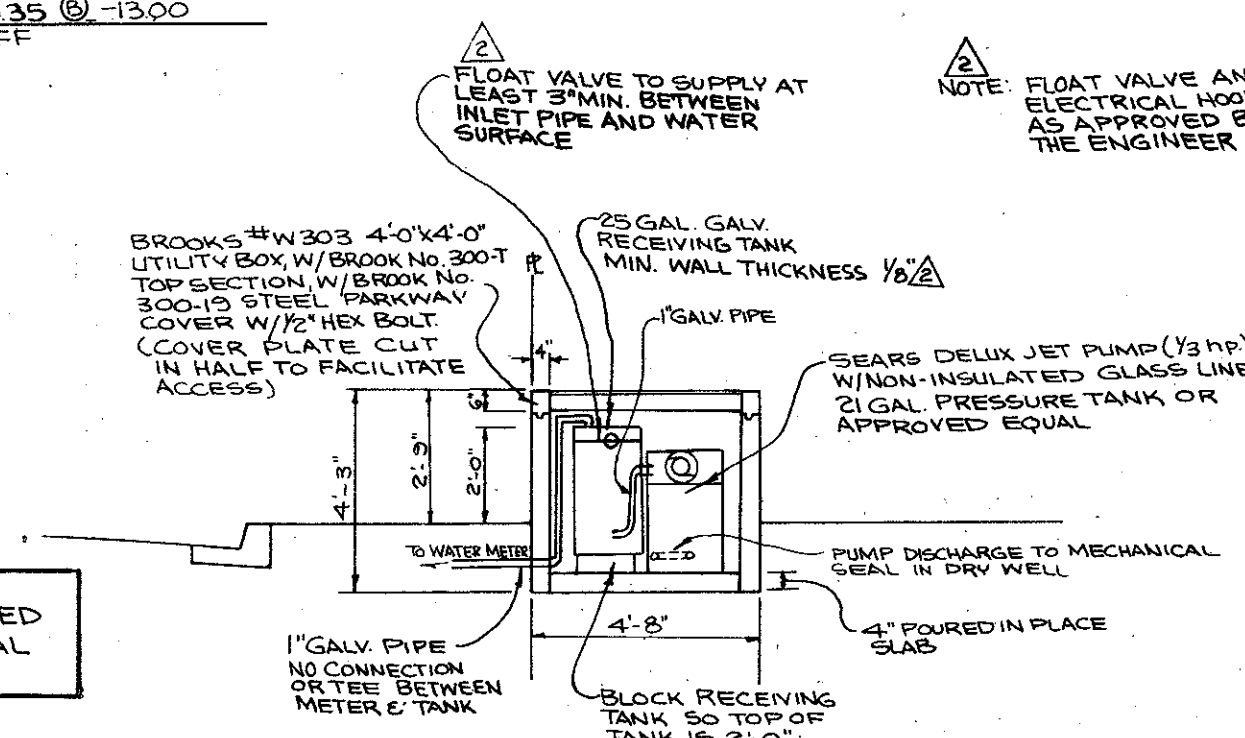
SECTION A-A



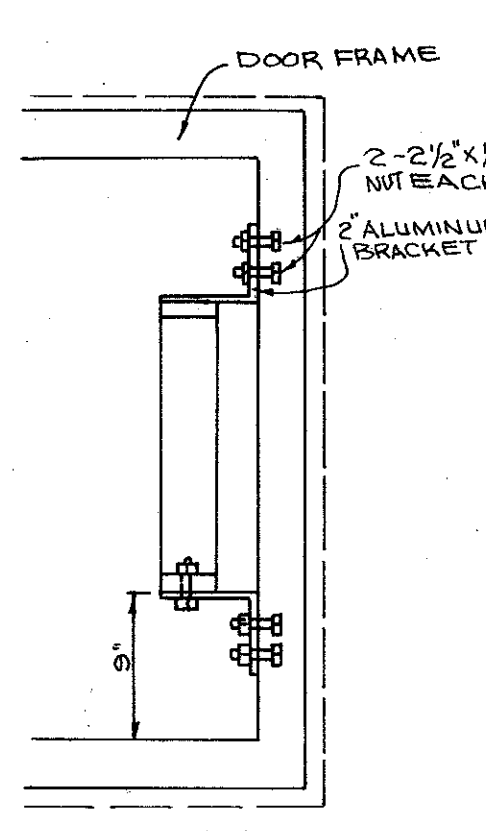
MANHOLE PLACEMENT LAYOUT
NO SCALE



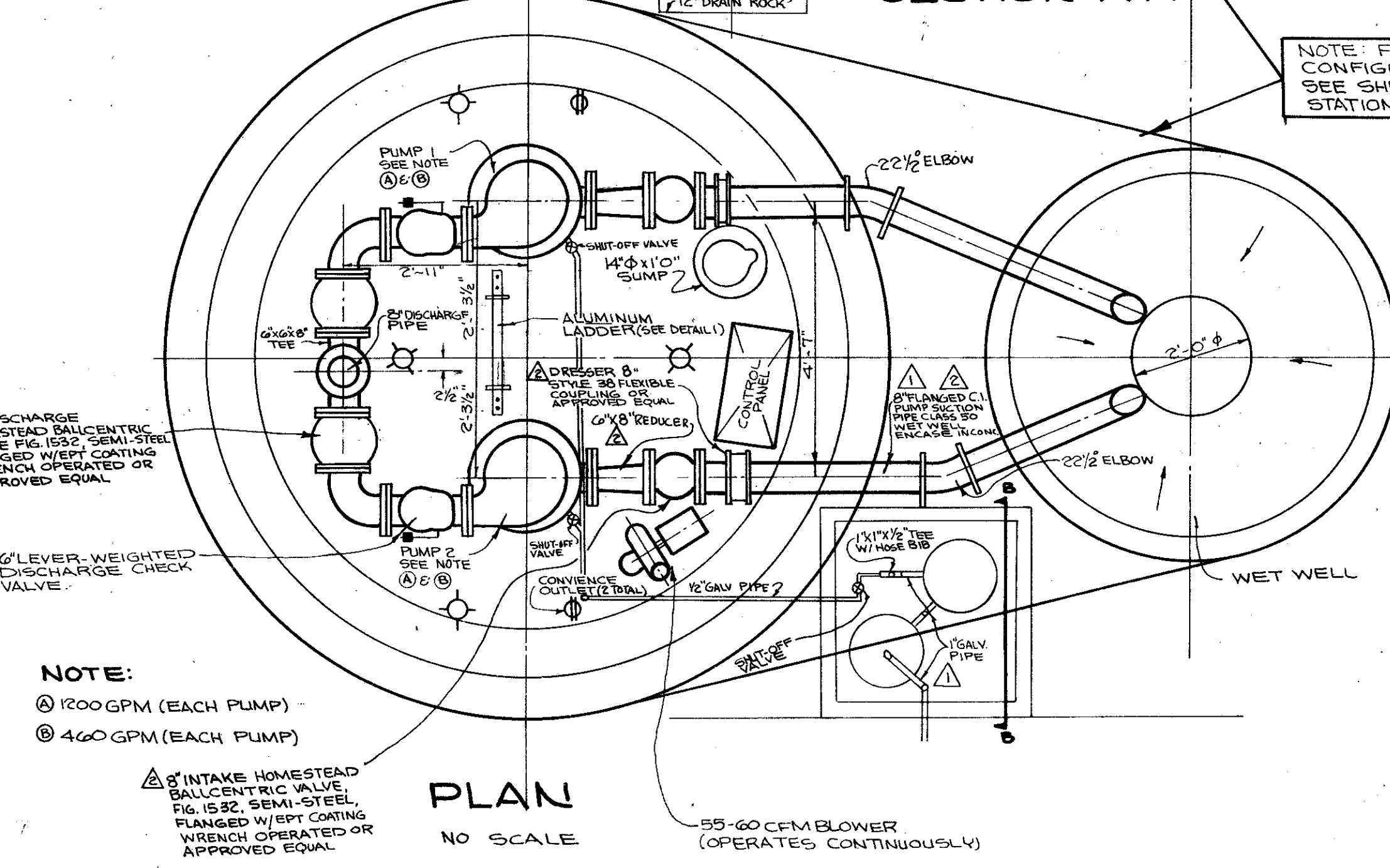
DETAIL #1
NO SCALE



SECTION B-B
AIR-GAP SEPARATION WATER SYSTEM
NO SCALE



TOP VIEW
DETAIL #2
NO SCALE



PLAN
NO SCALE

	STATION 34	STATION 35+16
ELEVATION OF PUMP WELL FLOOR	-10.29	-15.94
DIAMETER OF PUMP DISCHARGE	6"	6"
ELEVATION OF LOW WATER (PUMP SHUT-OFF)	-15.35	-13.00
STATIC HEAD	14.88	14.34
CAPACITY (EACH PUMP)	1200 GPM	460 GPM

NOTE:
 (A) 1200 GPM (EACH PUMP)
 (B) 460 GPM (EACH PUMP)

(C) INTAKE HOMESTEAD BALLCENTRIC VALVE FIG. 1592 SEMI-STEEL FLANGED W/EPY COATING WRENCH OPERATED OR APPROVED EQUAL.

(D) DISCHARGE HOMESTEAD BALLCENTRIC VALVE FIG. 1592 SEMI-STEEL FLANGED W/EPY COATING WRENCH OPERATED OR APPROVED EQUAL.

BEND REINFORCING BARS TO PASS UNDER SUMP

NOTE: DRY WELL FLOOR TO DRAIN TOWARD SUMP

DRESSER 8" STYLE 30 FLEXIBLE COUPLING APPROVED EQUAL

NOTE: ALL OPENINGS IN TOP SIDES OF PUMP ROOM TO BE SEALED FOR WATER TIGHTNESS

NOTE: ALL PIPES AND VALVES TO BE PAINTED WITH POLYAR OR APPROVED EQUAL

NOTE: FOUNDATION CONFIGURATION CHANGED SEE SHEET 22 (TYPICAL STATIONS A & B)

NOTE: FLOAT VALVE AND ELECTRICAL HOOKUP AS APPROVED BY THE ENGINEER

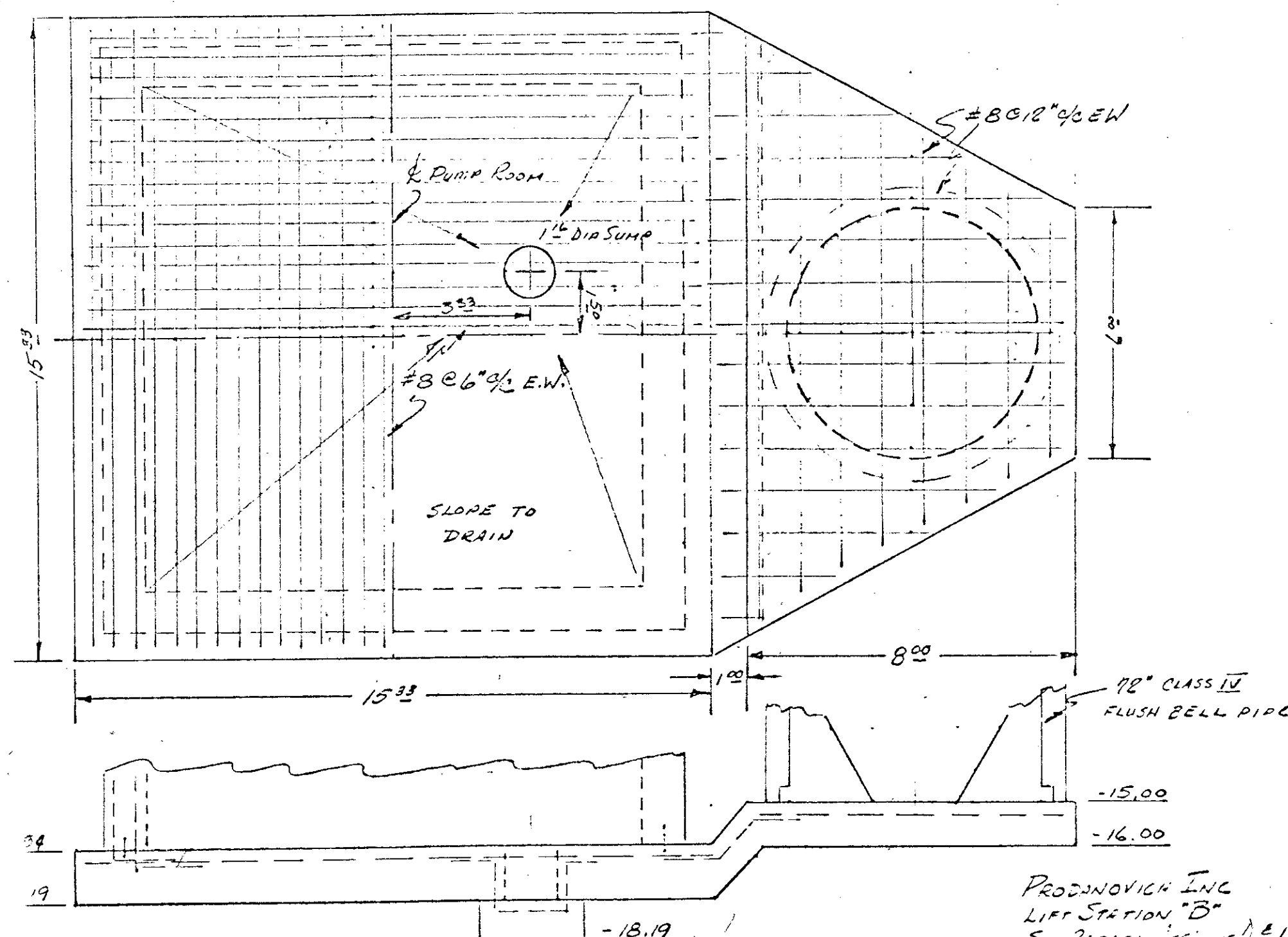
NOTE: FLOAT VALVE TO SUPPLY AT LEAST 3" MIN. BETWEEN INLET PIPE AND WATER SURFACE

NOTE: WET WELL FOR STATION (B) MAY BE A 72" ID PRECAST REINFORCED MANHOLE WITH ECCENTRIC CONE AS MADE BY ASSOCIATED CONCRETE PRODUCTS INC. OR APPROVED EQUAL

REVISION 12-31-71 BXL
 DIMENSION OF TOP SLAB - SECTION A-A INSIDE DIA. DRY WELL - 15'-4"
 DIMENSION OF WET WELL - AIR-GAP SEPARATION WATER SYSTEM - 15'-4"
 SECTION B-B - AIR-GAP SEPARATION WATER SYSTEM - 15'-4"
 REVISION 1-11-72 BXL
 AIR-GAP SEPARATION WATER SYSTEM - ADDED FLAT VALVE RECEIVING TANK WALL THICKNESS 1/2" INCREASE PIPE COUPLING VALVE SIZE AND ADD REDUCER IN PUMP SUCTION PIPE, BOTTOM SLAB - WET WELL 2" DRY WELL 2" DISTANCE, CONC. BLOCKS UNDER PIPE PUMP SUPPORT, SECTION A-A 3" PLAN - INCREASE PIPE COUPLING VALVE SIZE AND ADD REDUCER IN PUMP SUCTION PIPE, BOTTOM SLAB - WET WELL 2" DRY WELL 2" DISTANCE, CONC. BLOCKS UNDER PIPE PUMP SUPPORT

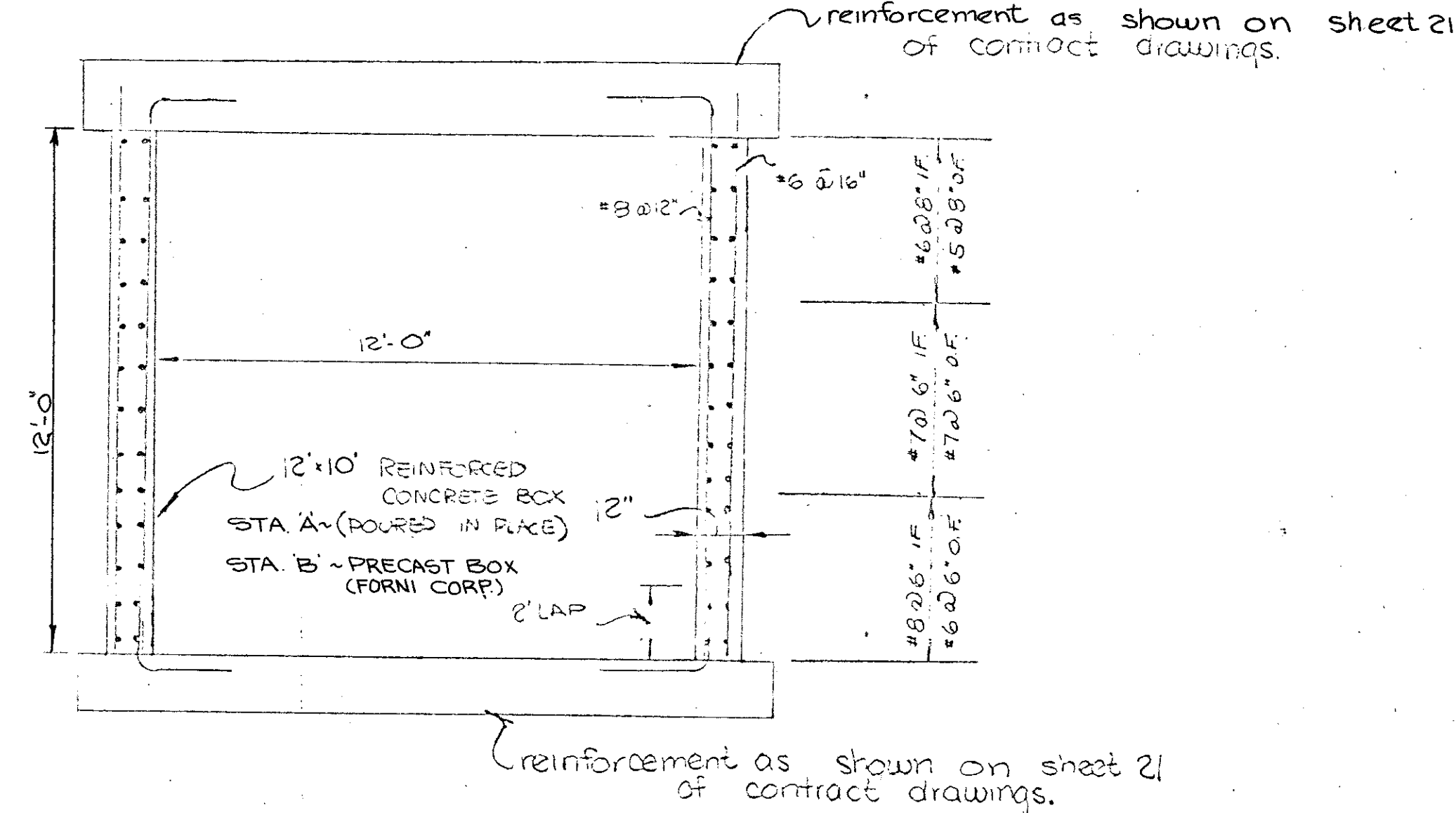
ASBUILT 1-8-75
SANITARY SEWER LIFT STATION
 STATION 34+16 ~ 1200 GPM EACH PUMP - PLAN VIEW SHEET 3
 STATION 35+16 ~ 460 GPM EACH PUMP - PLAN VIEW SHEET 5

APPROVED 12/22 BY *Ely Calabrese*
 DRAWN BY *Ely Calabrese*
 CHECKED BY *le.o.*
 DESIGNED BY *A.T.C.*
 DATE OCT. 1971
 SCALE NO SCALE
GONZALEZ & OBERKAMPER CIVIL ENGINEERS INC.
 REG. CE. 12094
 COUNTY OF MARIN, STATE OF CALIFORNIA
IMPROVEMENT PLAN OF EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
 SHEET NO. 21 OF 22 SHEETS



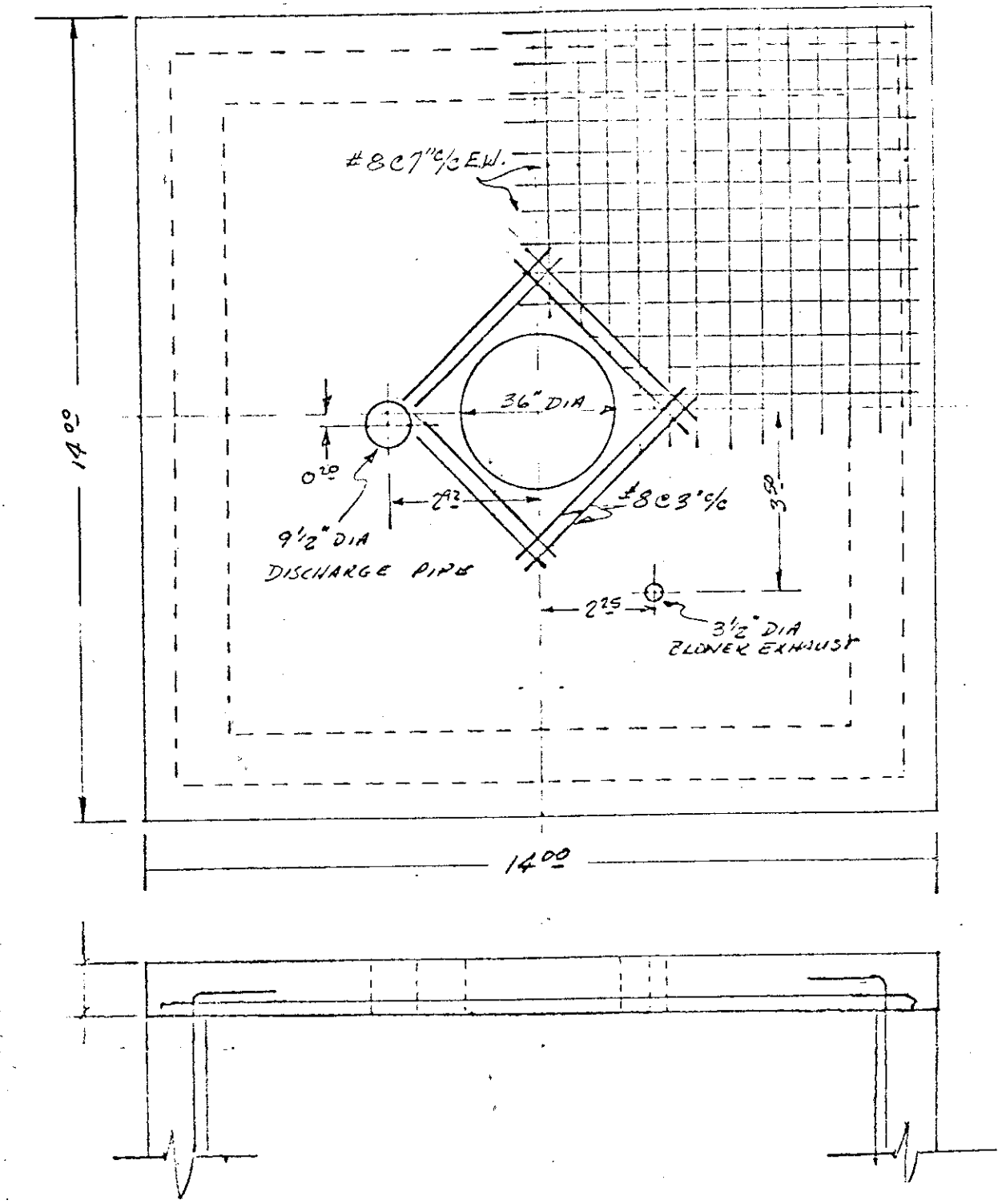
FOUNDATION PLAN ~ NO SCALE

PRODANOVICH INC.
LIFT STATION "B"
SAN RAFAEL DISTRICT NO. 1
LIFT STATION A
SIMILAR



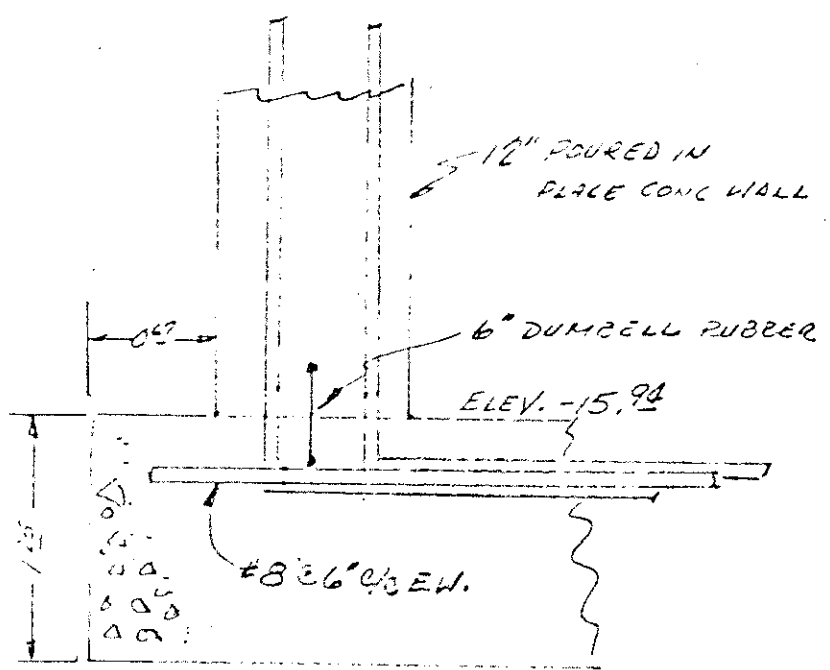
SECTION THROUGH STATION

PRODANOVICH INC.
EAST SAN RAFAEL DRAINAGE
ASSESSMENT DISTRICT NO. 1
LIFT STATION B & A ~
WALL DETAIL

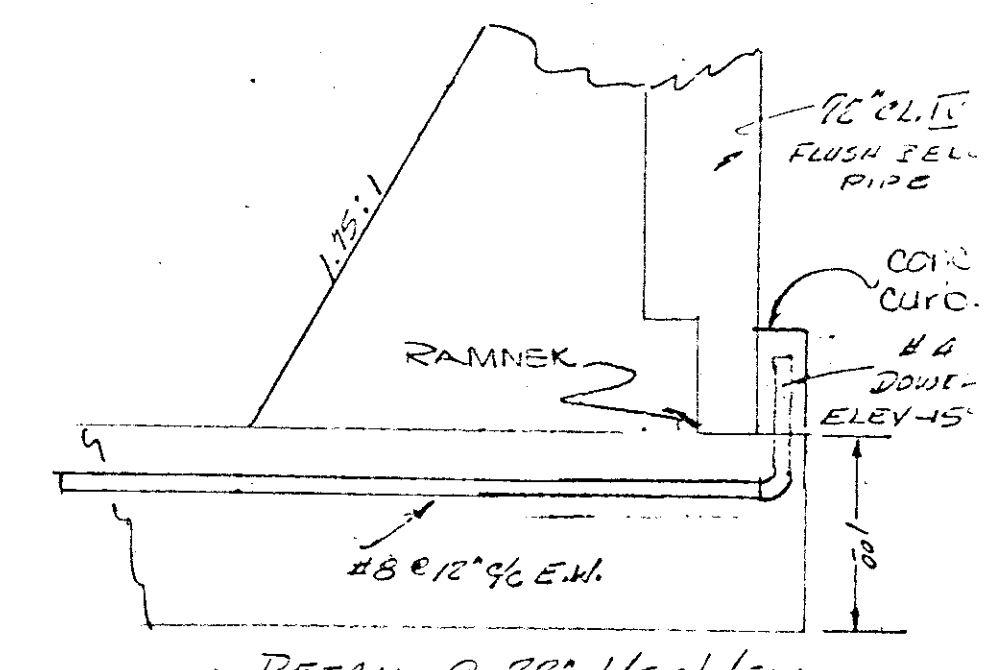


TOP SLAB DETAIL ~ STATIONS A & B
NO SCALE

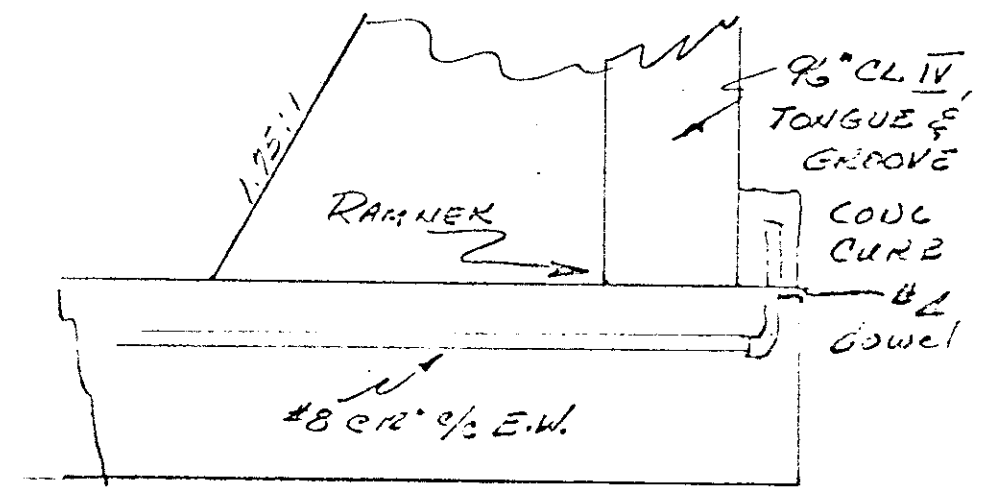
PRODANOVICH INC.
EAST SAN RAFAEL ASSESSMENT
DISTRICT NO. 1
12x10 CONCRETE BOX
7215-3



TYPICAL DETAIL AT
PUMP ROOM WALL "A" & "B"



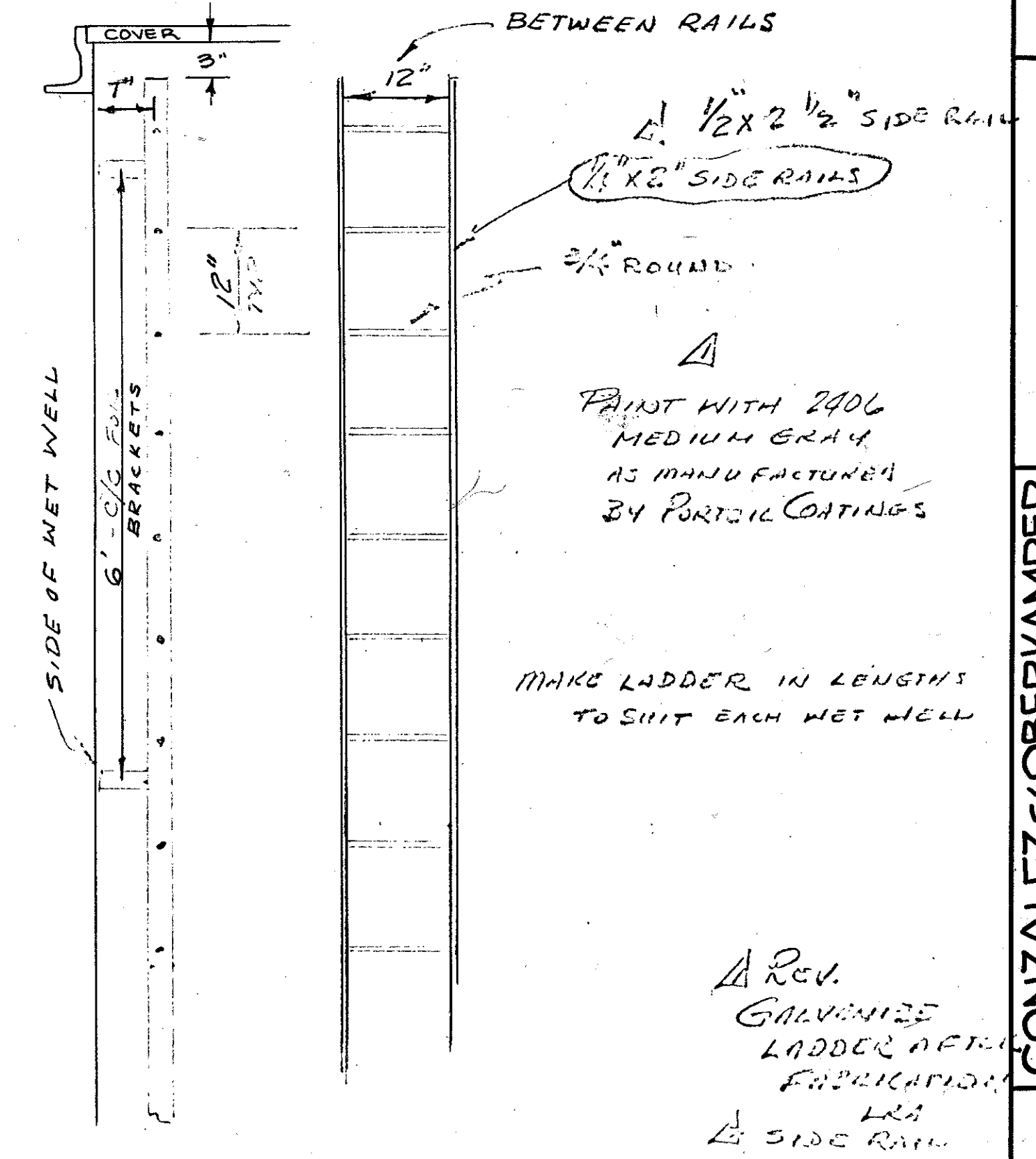
DETAIL @ 72" WET WELL
L.S. "B"



DETAIL @ 96" WET WELL
L.S. "A"

PRODANOVICH INC.
TYPICAL DETAILS
SAN RAFAEL DISTRICT NO. 1

DETAILS ~ NO SCALE



WET WELL LADDER DETAIL
NO SCALE

SIMILAR LIFT STATIONS
A & B

GONZALEZ/OBERKAMPER
CIVIL ENGINEERS INC.
IMPROVEMENT PLAN
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT NO. 1
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

SAN RAFAEL BAY

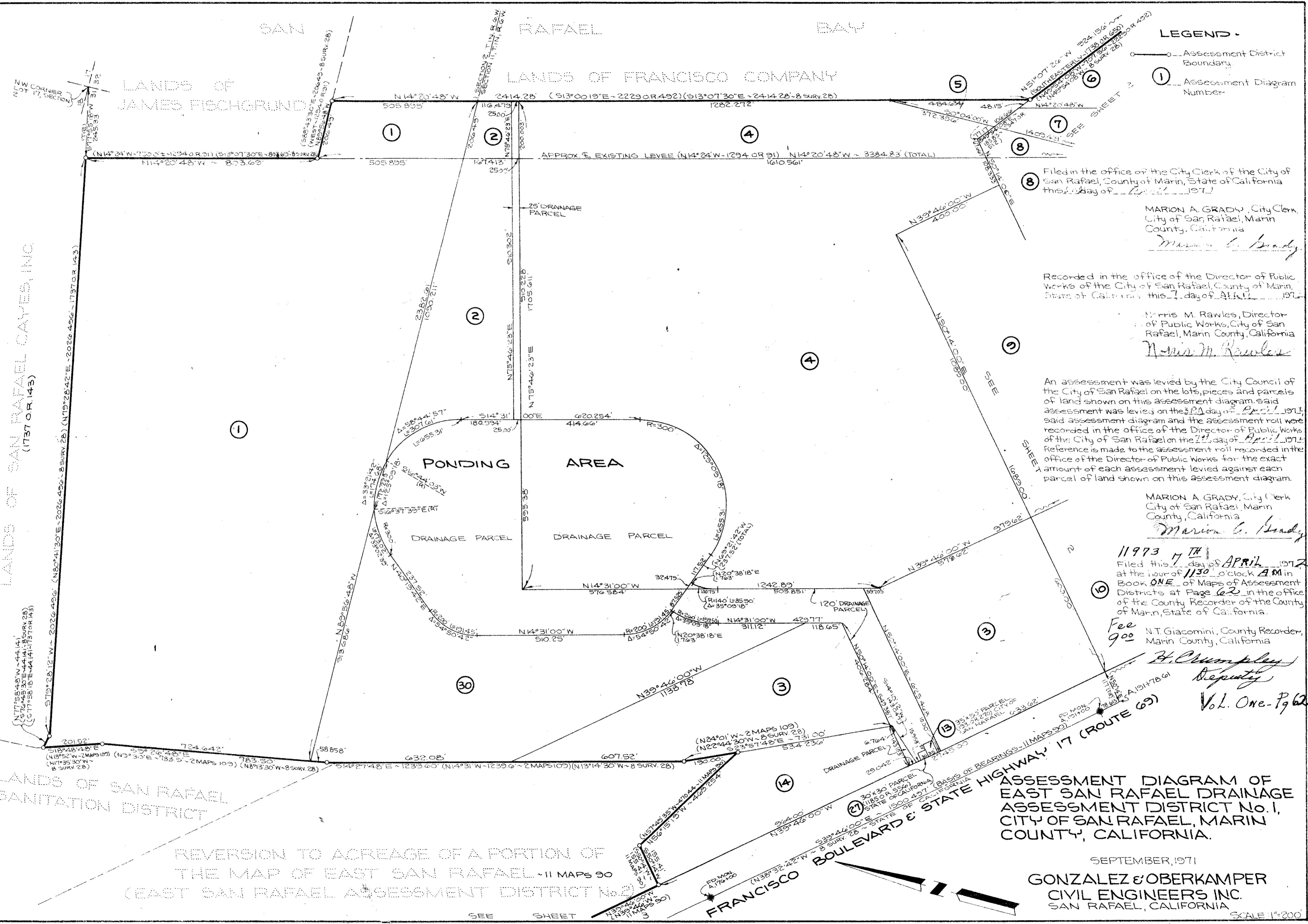
LANDS OF FRANCISCO COMPANY

LANDS OF JAMES FISCHGRUND

LANDS OF SAN RAFAEL CAYES, INC.
(1737 OR 143)

LANDS OF SAN RAFAEL
SANITATION DISTRICT

REVERSION TO ACREAGE OF A PORTION OF
THE MAP OF EAST SAN RAFAEL - 11 MAPS 30
(EAST SAN RAFAEL ASSESSMENT DISTRICT No. 2)



- LEGEND -**
- Assessment District Boundary
 - ① Assessment Diagram Number

⑧ Filed in the office of the City Clerk of the City of San Rafael, County of Marin, State of California this 7 day of April 1972

MARION A. GRADY, City Clerk,
City of San Rafael, Marin
County, California
Marion A. Grady

Recorded in the office of the Director of Public Works of the City of San Rafael, County of Marin, State of California this 7 day of April 1972

Morris M. Rawles, Director
of Public Works, City of San
Rafael, Marin County, California
Morris M. Rawles

An assessment was levied by the City Council of the City of San Rafael on the lots, pieces and parcels of land shown on this assessment diagram, said assessment was levied on the 22 day of April 1971, said assessment diagram and the assessment roll were recorded in the office of the Director of Public Works of the City of San Rafael on the 22 day of April 1971. Reference is made to the assessment roll recorded in the office of the Director of Public Works for the exact amount of each assessment levied against each parcel of land shown on this assessment diagram.

MARION A. GRADY, City Clerk,
City of San Rafael, Marin
County, California
Marion A. Grady

11973 7TH APRIL
Filed this 7 day of APRIL 1972
at the hour of 11:30 o'clock A.M. in
Book ONE of Maps of Assessment
Districts at Page 62 in the office
of the County Recorder of the County
of Marin, State of California.

Fee
9.00 N.T. Giacomini, County Recorder,
Marin County, California

H. Crumley
Deputy
Vol. One - P. 62

ASSESSMENT DIAGRAM OF
EAST SAN RAFAEL DRAINAGE
ASSESSMENT DISTRICT No. 1,
CITY OF SAN RAFAEL, MARIN
COUNTY, CALIFORNIA.

SEPTEMBER, 1971

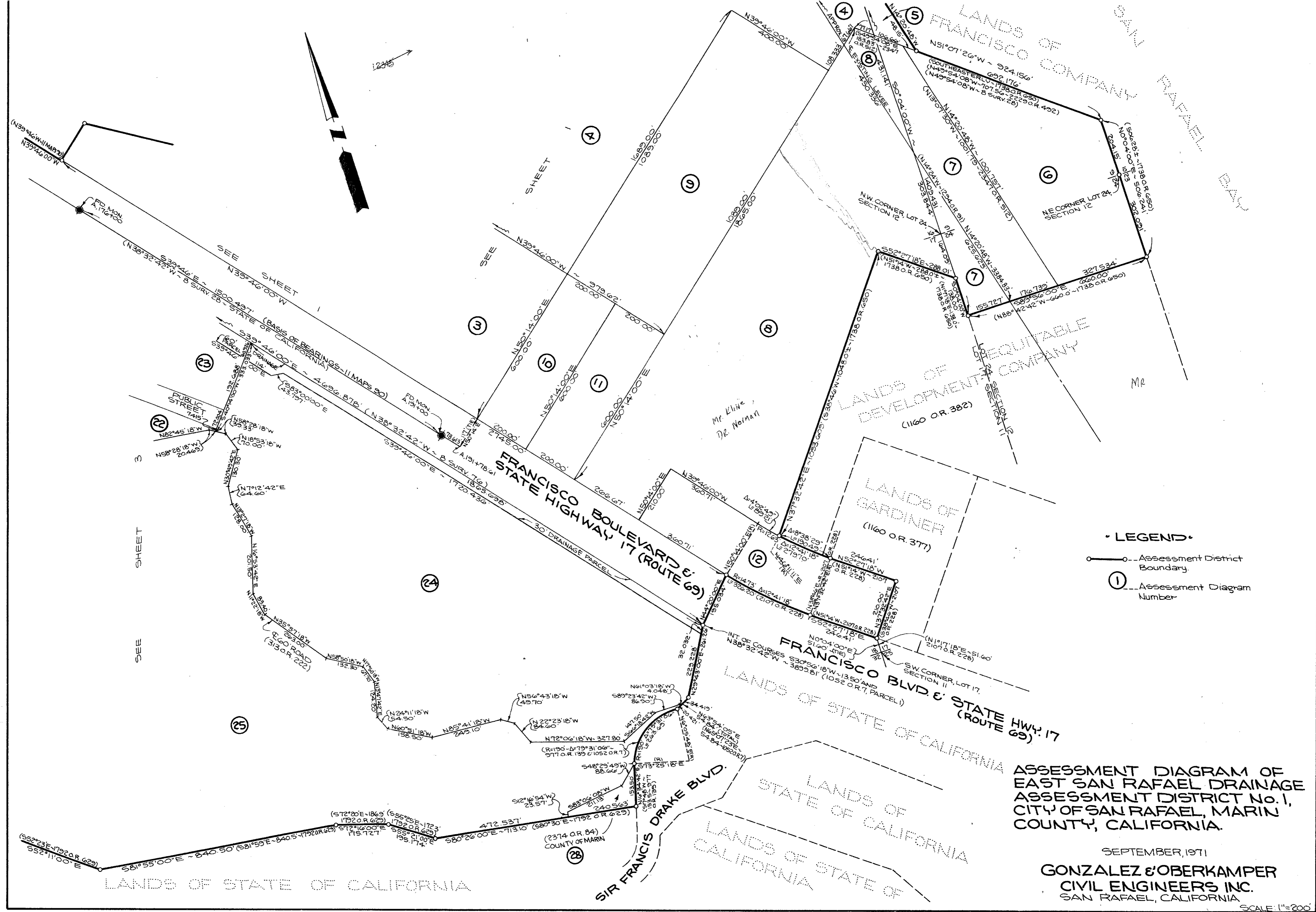
GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.
SAN RAFAEL, CALIFORNIA

SHEET 1 OF 3 SHEETS

SCALE 1"=200'

CW 2598

AD 32



- LEGEND •**
- Assessment District Boundary
 - ① Assessment Diagram Number

ASSESSMENT DIAGRAM OF
 EAST SAN RAFAEL DRAINAGE
 ASSESSMENT DISTRICT No. 1,
 CITY OF SAN RAFAEL, MARIN
 COUNTY, CALIFORNIA.

SEPTEMBER, 1971
 GONZALEZ & OBERKAMPER
 CIVIL ENGINEERS INC.
 SAN RAFAEL, CALIFORNIA

SHEET 2 OF 3 SHEETS

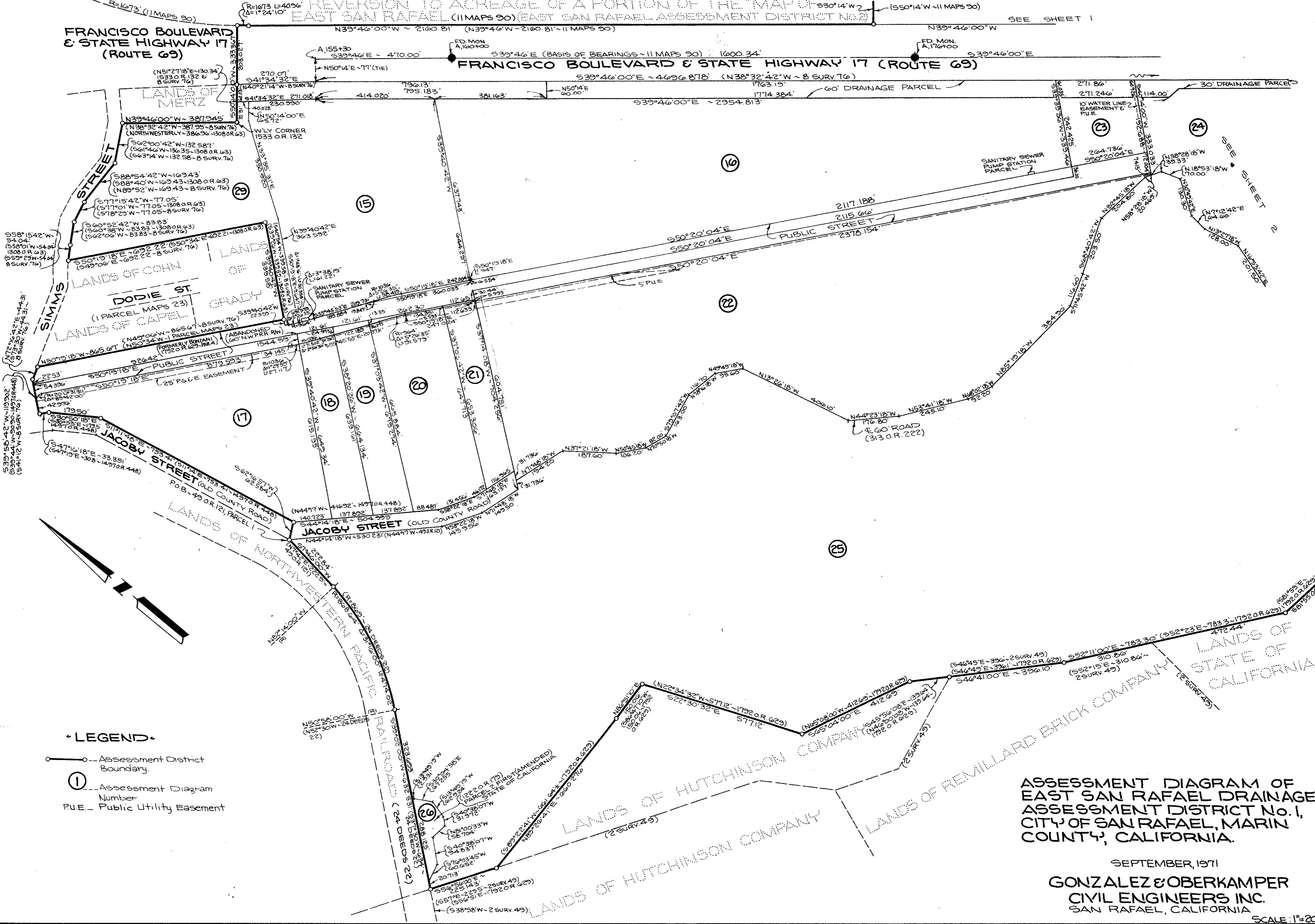
AD 32

SCALE: 1"=200'

FRANCISCO BOULEVARD & STATE HIGHWAY 17 (ROUTE 69)

FRANCISCO BOULEVARD & STATE HIGHWAY 17 (ROUTE 69)

SEE SHEET 1



LEGEND

- Assessment District Boundary
- ① Assessment Diagram Number
- P.U.E. Public Utility Easement

ASSESSMENT DIAGRAM OF
 EAST SAN RAFAEL DRAINAGE
 ASSESSMENT DISTRICT No. 1,
 CITY OF SAN RAFAEL, MARIN
 COUNTY, CALIFORNIA.

SEPTEMBER, 1971
 GONZALEZ & OBERKAMPER
 CIVIL ENGINEERS INC.
 SAN RAFAEL, CALIFORNIA

SHEET 3 OF 3 SHEETS

SCALE: 1"=200'

AD 32

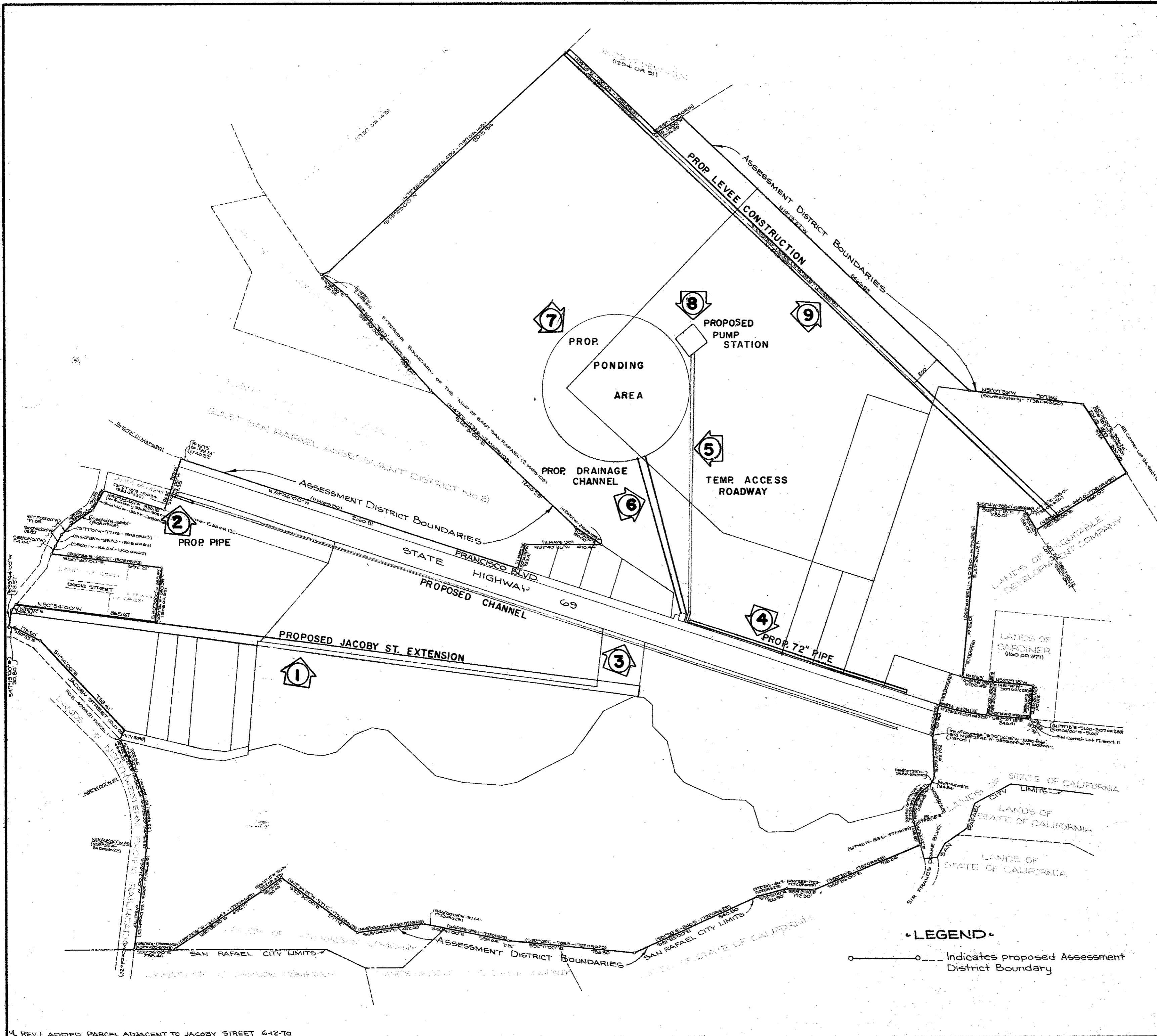
Filed in the office of the City Clerk of the City of San Rafael,
County of Marin, State of California this ___ day of ___
197__.

W. Clifford Cornwell, City Clerk,
City of San Rafael, Marin County,
California.

I, hereby certify that the within map showing proposed
boundaries of East San Rafael Drainage Assessment District
No. 1, City of San Rafael, Marin County, California was approved
by the City Council of the City of San Rafael at a regular
meeting thereof held on the ___ day of ___ 197__, by
its Resolution No. _____

W. Clifford Cornwell, City Clerk,
City of San Rafael, Marin County,
California.

Filed this ___ day of ___ 1970, at the hour of ___
o'clock ___ M. in Book ___ of Maps of Assessment
Districts at Page ___ in the office of the County
Recorder of the County of Marin, State of California
N.T. Giacomini, County Recorder
of Marin County, California



LEGEND:

- DRAINAGE FACILITIES
- ROAD IMPROVEMENTS
- LEVEE WORK



• LEGEND •

- Indicates proposed Assessment District Boundary

**PROPOSED BOUNDARIES OF
EAST SAN RAFAEL DRAINAGE
ASSESSMENT DISTRICT No. 1,
CITY OF SAN RAFAEL, MARIN
COUNTY, CALIFORNIA.**

NOVEMBER, 1968

**CARLOS E. GONZALEZ
CIVIL ENGINEERS INC.
SAN RAFAEL, CALIFORNIA**

SCALE: 1"=400'

4. REV. I ADDED PARCEL ADJACENT TO JACOBY STREET 642-70

Filed in the office of the City clerk of the City of San Rafael, County of Marin, State of California this 21 day of DECEMBER 1970.

MARION A. GRADY
~~W. Clifford Cornwell~~, City Clerk,
 City of San Rafael, Marin County,
 California.

S/ MARION A. GRADY

I, hereby certify that the within map showing proposed boundaries of East San Rafael Drainage Assessment District No. 1, City of San Rafael, Marin County, California was approved by the City Council of the City of San Rafael at a regular meeting thereof, held on the 21 day of DECEMBER 1971, by its Resolution No. 3978.

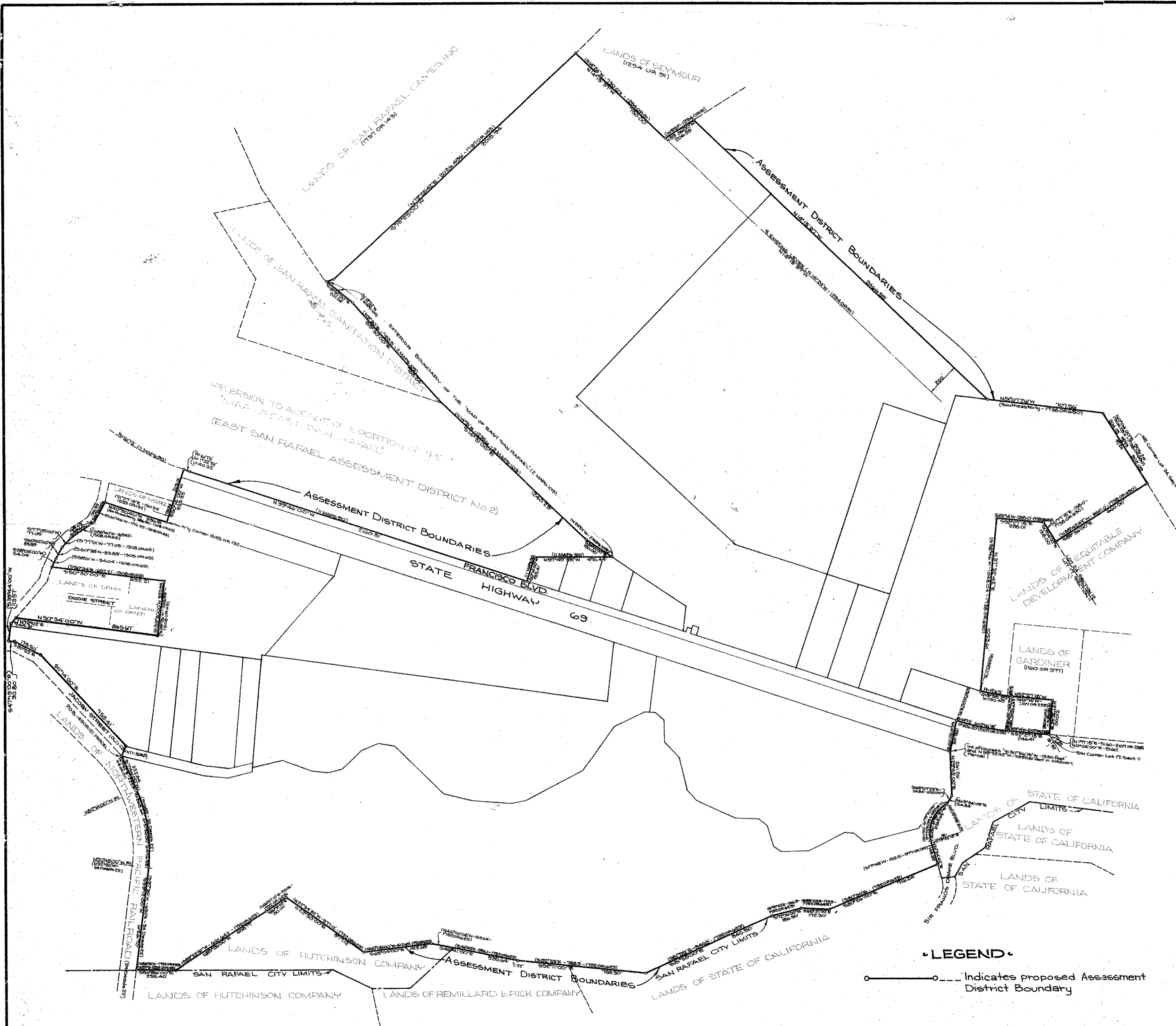
MARION A. GRADY
~~W. Clifford Cornwell~~, City Clerk,
 City of San Rafael, Marin County,
 California.

S/ MARION A. GRADY

SERIAL NO. 167

Filed this 4th day of JANUARY 1970, at the hour of 3:25 o'clock P.M. in Book ONE of Maps of Assessment Districts at Page 45 in the office of the County Recorder of the County of Marin, State of California N.T. Giacomini, County Recorder of Marin County, California.

S/ H. CRUMPLEY
 DEPUTY



• LEGEND •

—○— Indicates proposed Assessment District Boundary

PROPOSED BOUNDARIES OF
 EAST SAN RAFAEL DRAINAGE
 ASSESSMENT DISTRICT No. 1,
 CITY OF SAN RAFAEL, MARIN
 COUNTY, CALIFORNIA.

NOVEMBER, 1968

CARLOS E. GONZALEZ
 CIVIL ENGINEERS INC.
 SAN RAFAEL, CALIFORNIA

SCALE: 1"=400'

SHEET 1 OF 1 SHEET

(DUPLICATE)
 COPY - ORIGINAL ON FILE
 WITH CITY CLERK

182-68

AD 32

REV. I ADDED PARCEL ADJACENT TO JACOBY STREET 6-12-70

"BOUNDARY MAP OF ESPADAD
 DRAINAGE MAINTENANCE DIST"
 IS ATTACHED AND ASSESSMENT
 DIAGRAM.

Filed in the office of the City Clerk of City of San Rafael, County of Marin, State of California this 3RD day of APRIL 1972.

15/ MARION A. GRADY

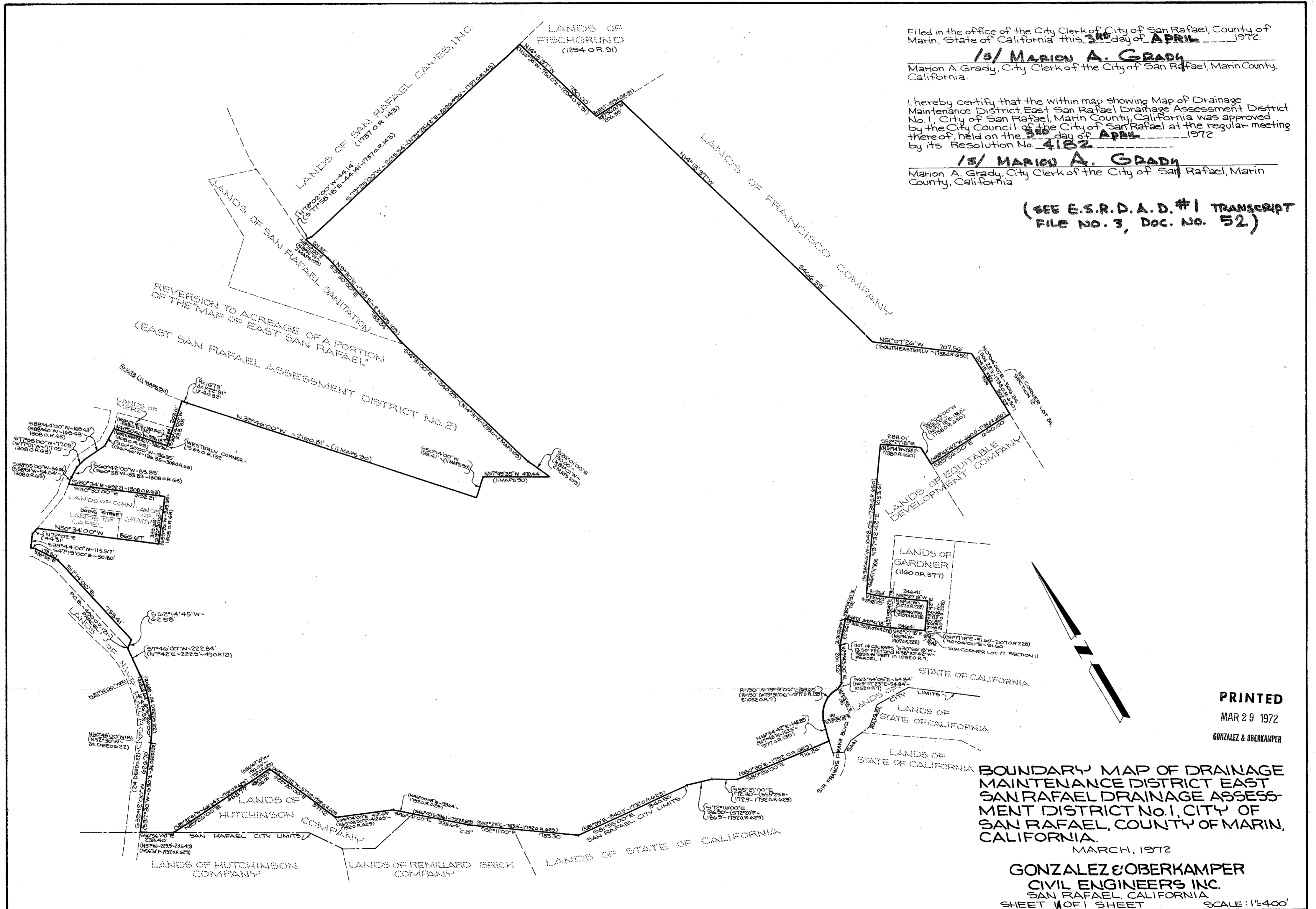
Marion A. Grady, City Clerk of the City of San Rafael, Marin County, California.

I hereby certify that the within map showing Map of Drainage Maintenance District, East San Rafael Drainage Assessment District No. 1, City of San Rafael, Marin County, California was approved by the City Council of the City of San Rafael at the regular meeting thereof, held on the 3RD day of APRIL 1972, by its Resolution No. 4182.

15/ MARION A. GRADY

Marion A. Grady, City Clerk of the City of San Rafael, Marin County, California.

(SEE E.S.R.D.A.D. #1 TRANSCRIPT FILE NO. 3, DOC. NO. 52)



PRINTED

MAR 29 1972

GONZALEZ & OBERKAMPER

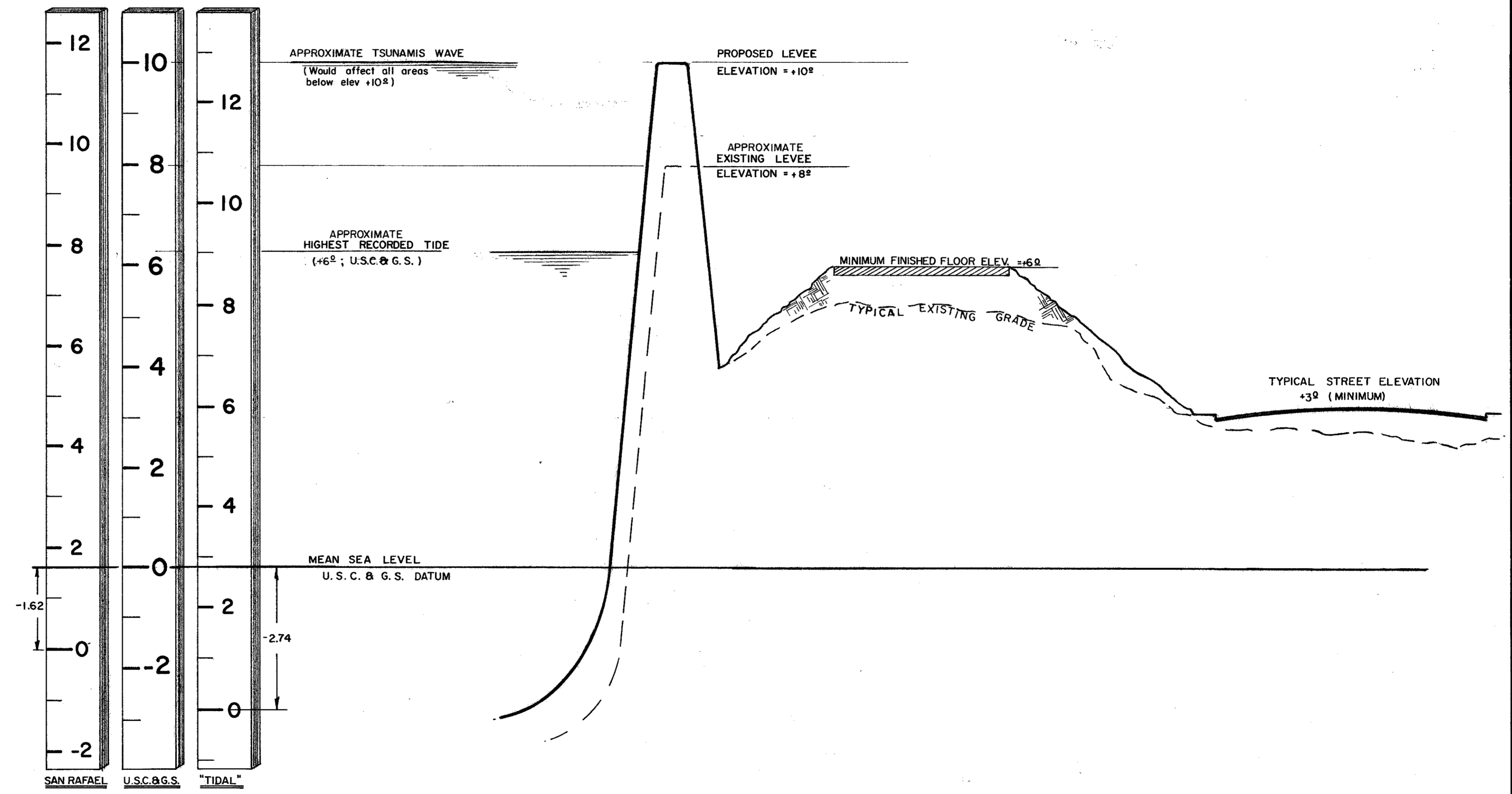
BOUNDARY MAP OF DRAINAGE MAINTENANCE DISTRICT EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1, CITY OF SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA.

MARCH, 1972

GONZALEZ & OBERKAMPER CIVIL ENGINEERS INC. SAN RAFAEL, CALIFORNIA SHEET 1 OF 1 SHEET

SCALE: 1"=400'

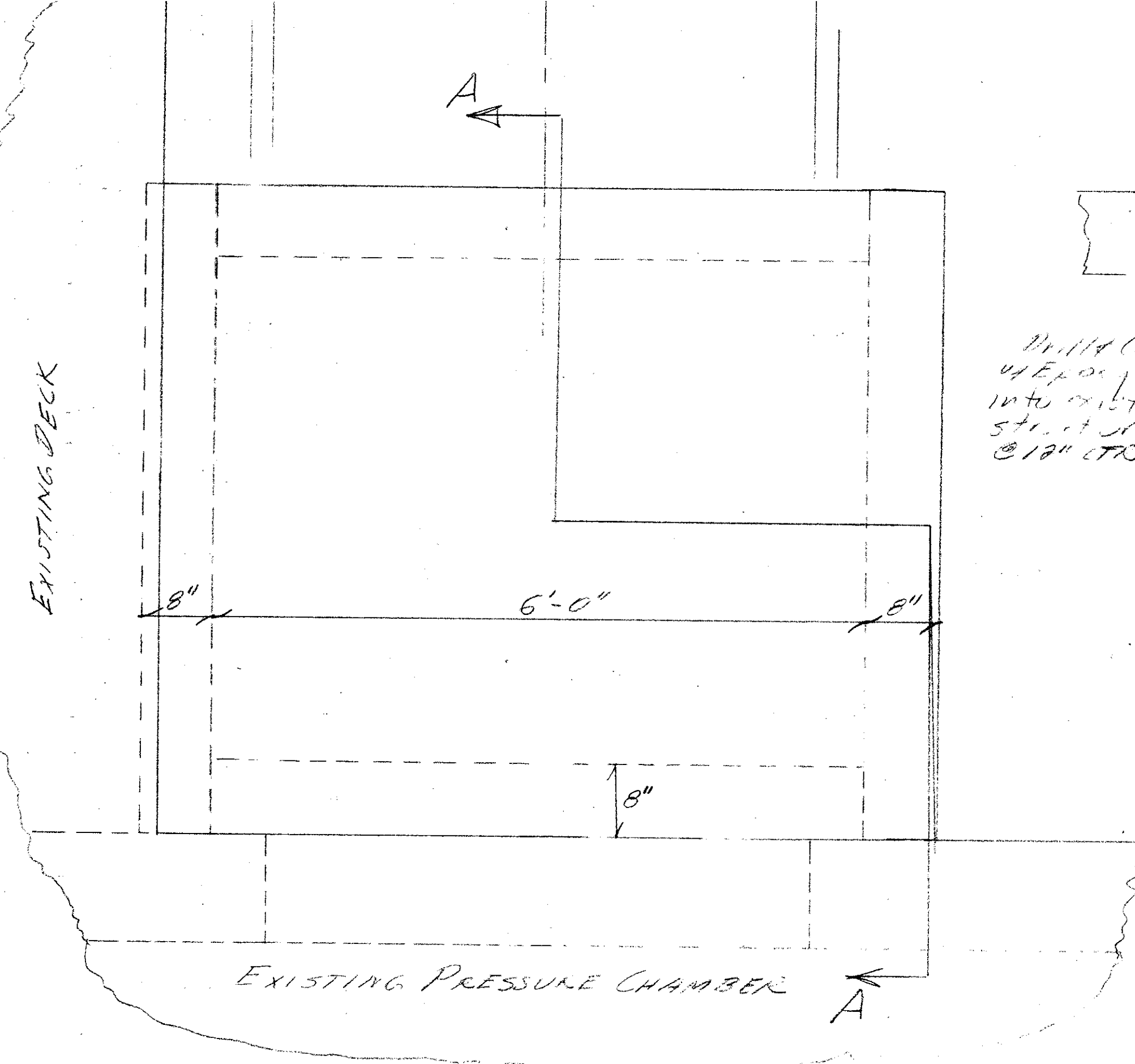
AD 32



DATUM

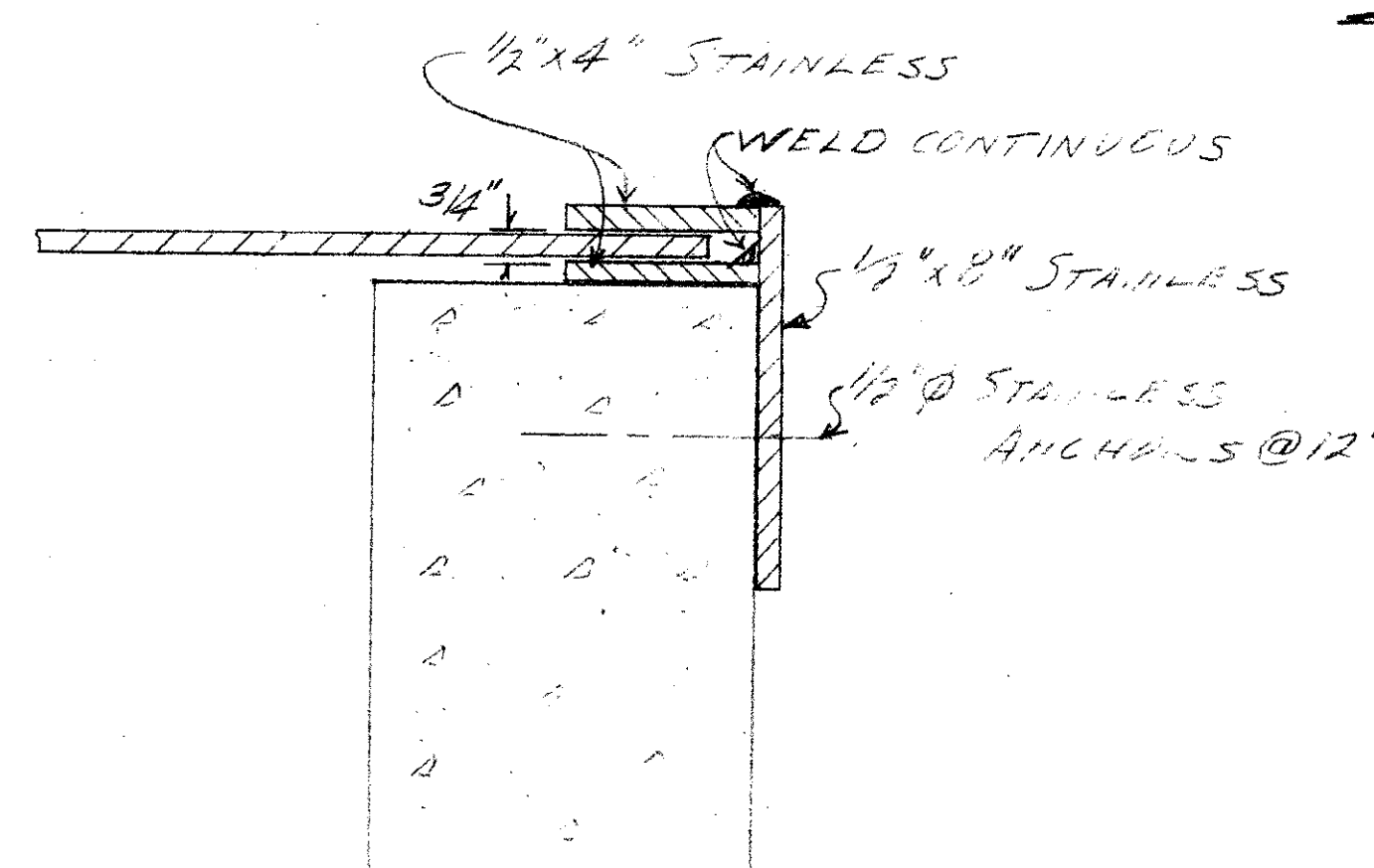
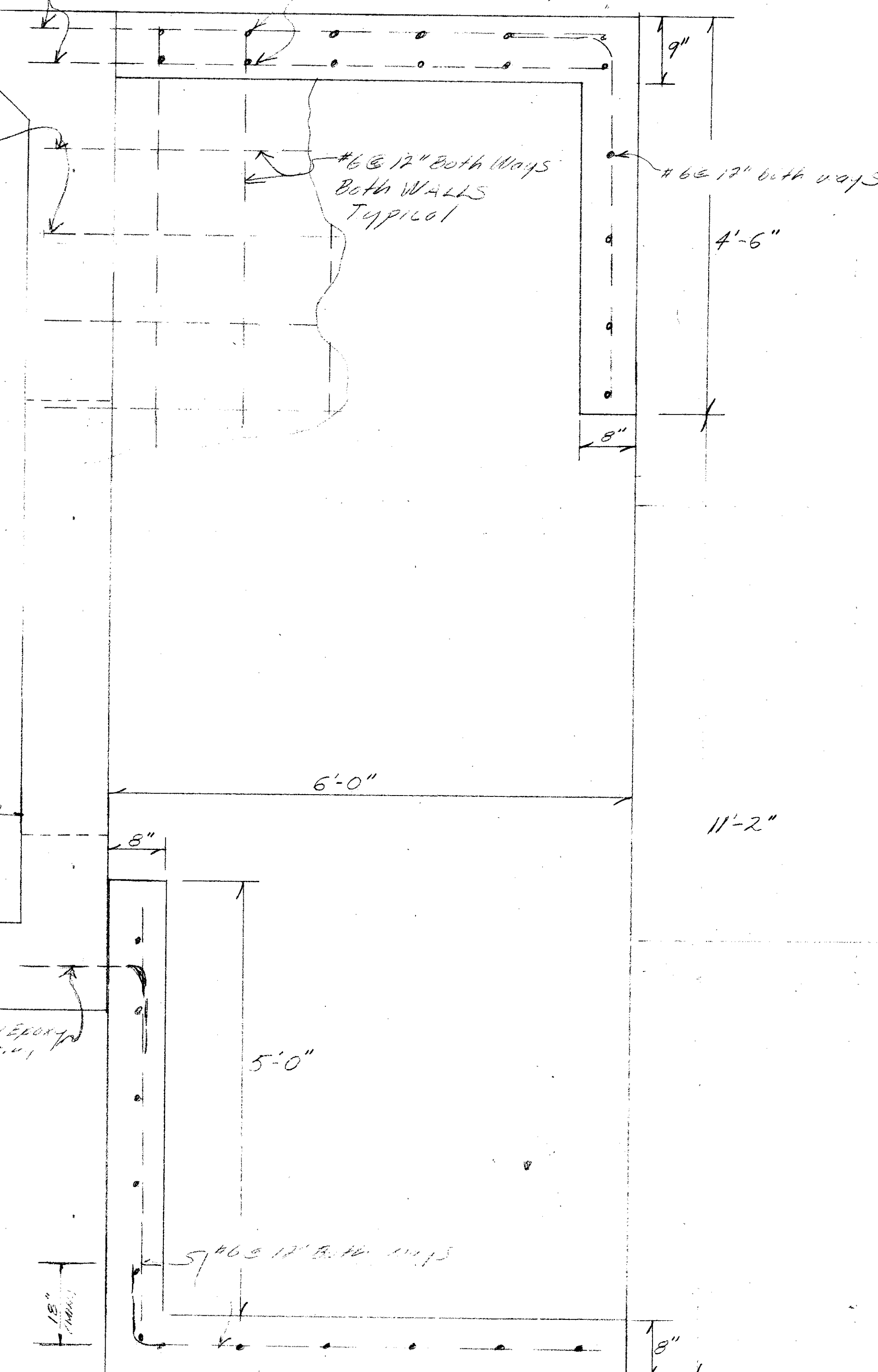
**EAST SAN RAFAEL
 TIDAL - LEVEE - FILL ELEVATION**

61013

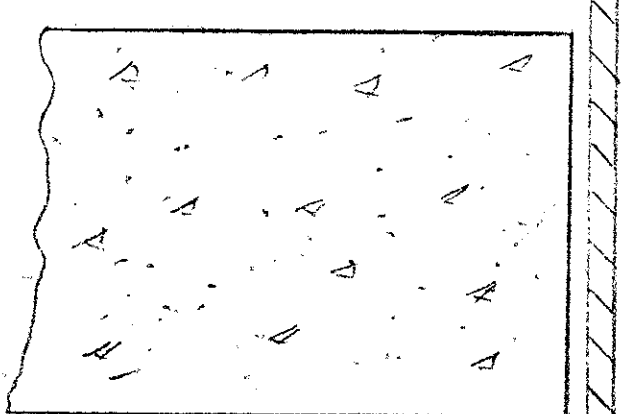
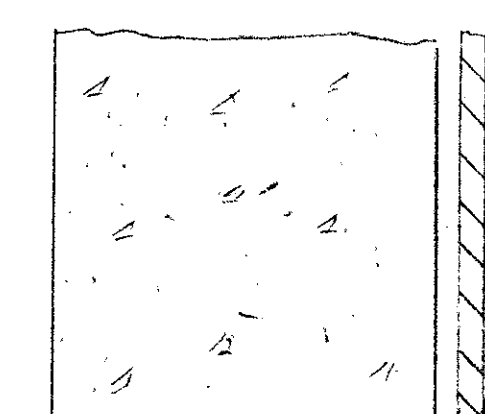


Drill & Grout w/ Epoxy 12" into existing structure @ 12" ctrs

Drill & Grout w/ Epoxy 12" into existing structure @ 12" ctrs



SCALE 3"=1'



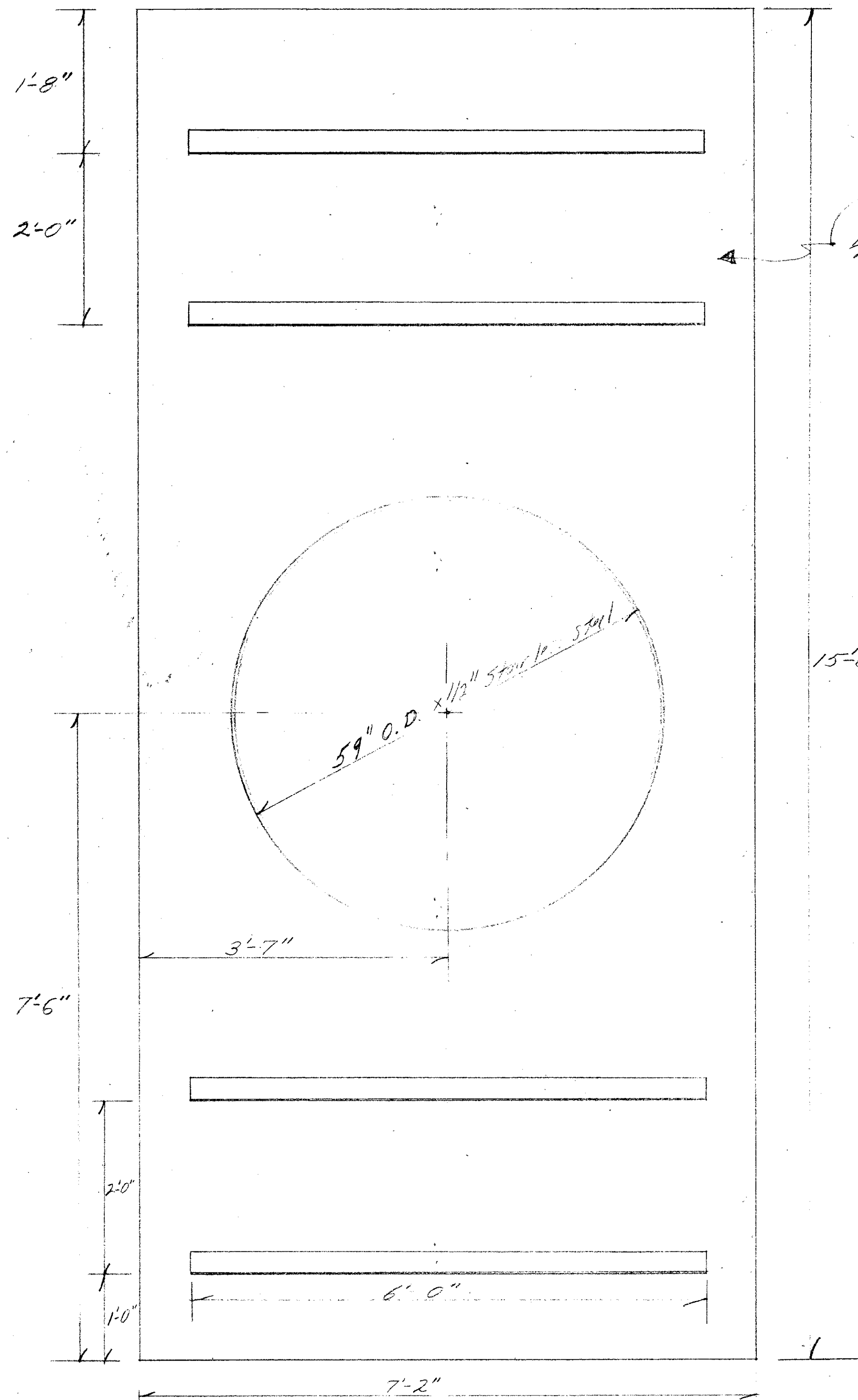
PUMP STATION CONNECTION STRUCTURE SCALE: 1"=1'

IMPROVEMENT PLAN OF EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1 CITY OF SAN RAFAEL, COUNTY OF MARIN STATE OF CALIFORNIA

GONZALEZ & OBERKAMPER CIVIL ENGINEERS INC. SAN RAFAEL, CALIFORNIA

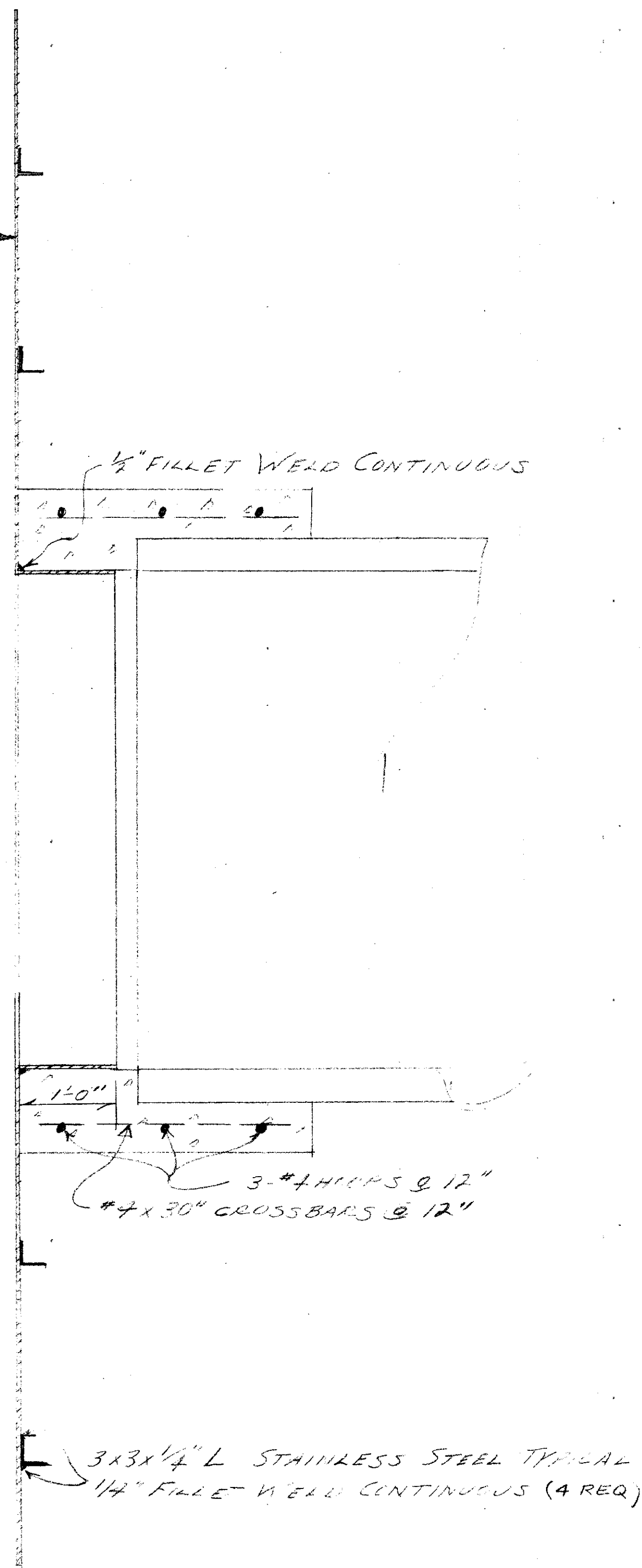
ASBUILT ~ 1-8-75

AD-32



SCALE 1"=1'

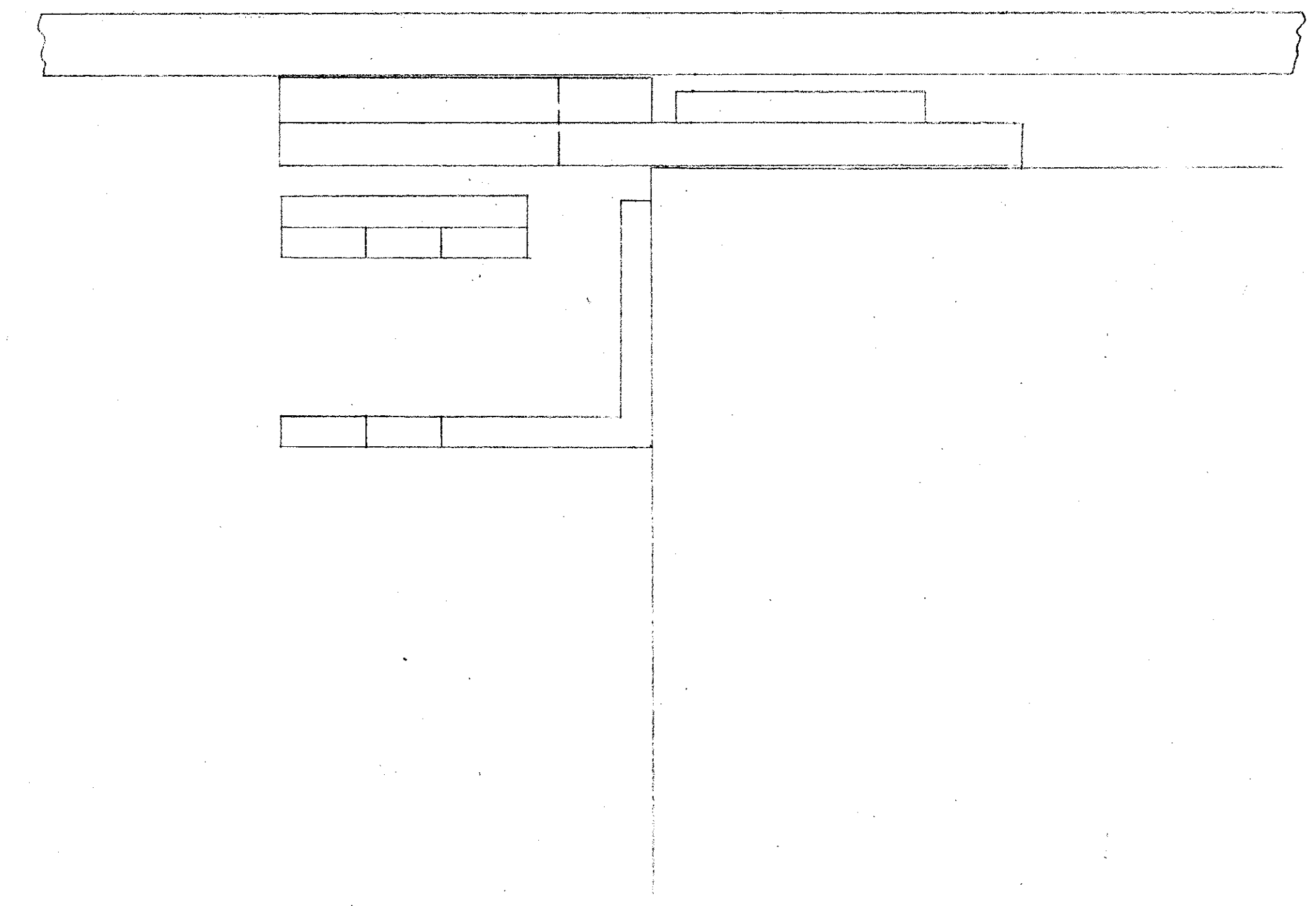
1/2" STAINLESS STEEL PLATE



1/2" FILLET WELD CONTINUOUS

3 #4 HIPS @ 12"
#4 x 30" CROSS BARS @ 12"

3 x 3 x 1/4" L STAINLESS STEEL TYPICAL
1/4" FILLET WELD CONTINUOUS (4 REQ)



SLIDE CONNECTION DETAIL
PUMP STATION OUTFALL
ASSEMBLY

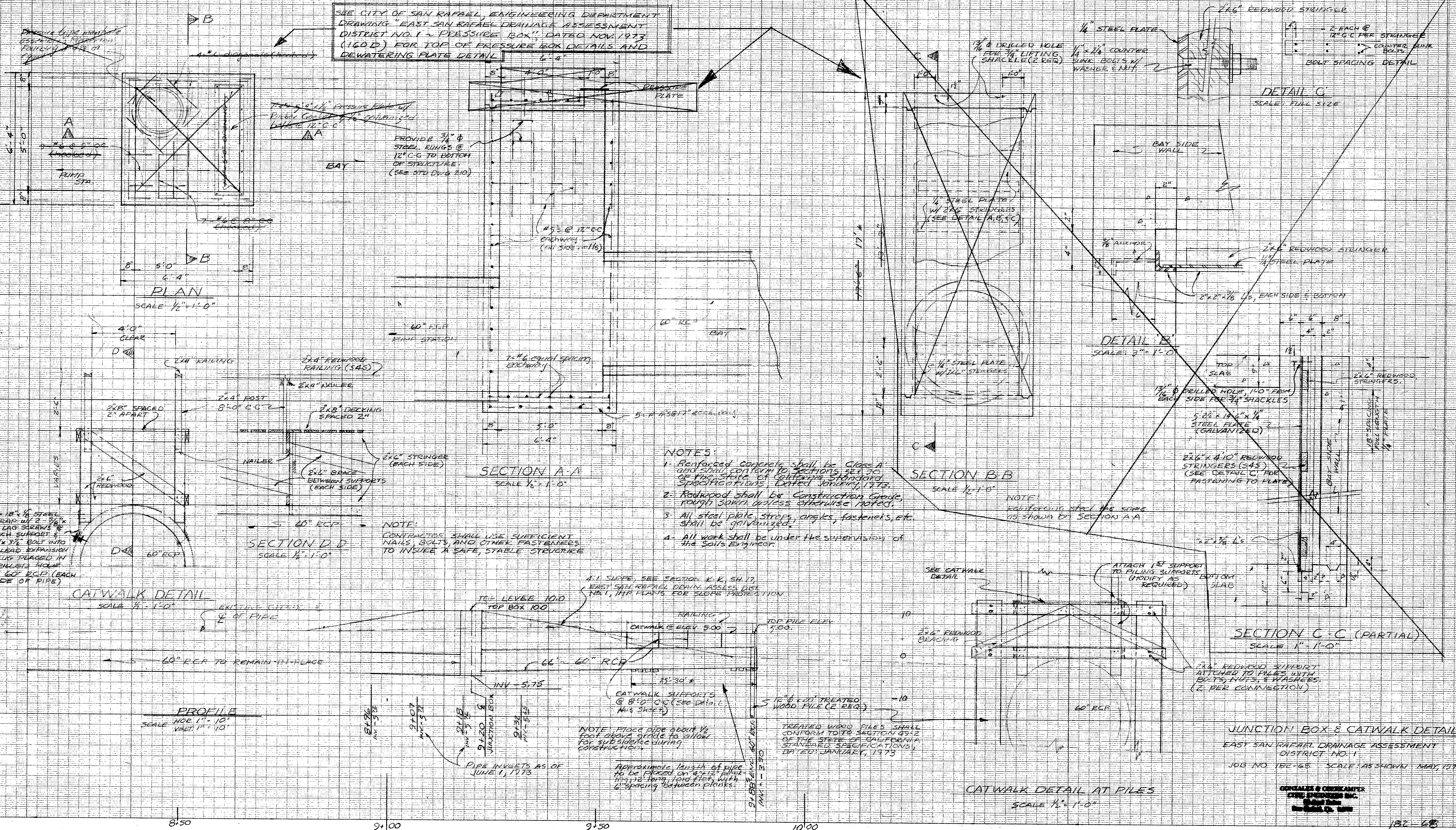
IMPROVEMENT PLAN OF
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT No. 1
CITY OF SAN RAFAEL, COUNTY OF MARIN, STATE OF CALIFORNIA

GONZALEZ & OBERKAMPER
CIVIL ENGINEERS INC.
SAN RAFAEL, CALIFORNIA

ASBUILT 1-8-75

AD-32

SHEET 14 B



SEE CITY OF SAN RAFAEL, ENGINEERING DEPARTMENT DRAWING "EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT NO. 1 - PRESSURE BOX", DATED NOV. 1973 (160D) FOR TOP OF PRESSURE BOX DETAILS AND DEWATERING PLATE DETAIL

PROVIDE 3/4" Ø STEEL RINGS @ 12" C.C. TO BOTTOM OF STRUCTURE (SEE STD. DRG. 210)

- NOTES:
1. Reinforced concrete shall be Class A and shall conform to SECTION 901.30 of the SPECIFICATIONS FOR CONCRETE STRUCTURES, STANDARD SPECIFICATIONS, DATED JANUARY, 1973.
 2. Redwood shall be Construction Grade, rough sawn unless otherwise noted.
 3. All steel plate, strips, angles, fasteners, etc. shall be galvanized.
 4. All work shall be under the supervision of the Soils Engineer.

NOTE: GALVANIZED STEEL FOR SCHEM AS SHOWN BY SECTION A-A

A-1 SLOPE, SEE SECTION K-R, SH. 17, EAST SAN RAFAEL DRAINAGE ASSESS. DIST. NO. 1, THE PLANS FOR SLOPE PROTECTION.

TREATED WOOD PILES SHALL CONFORM TO SECTION 901.2 OF THE SPECIFICATIONS FOR CONCRETE STRUCTURES, STANDARD SPECIFICATIONS, DATED JANUARY, 1973

NOTE: PLACE PIPE ABOUT 1/2 FOOT ABOVE GRADE TO ALLOW FOR SUBSIDIANCE DURING CONSTRUCTION.

APPROXIMATE LENGTH OF PIPE TO BE PLACED ON PILES DURING CONSTRUCTION TO BE DETERMINED BY THE CONTRACTOR.

SHEET 17A
 AS BUILT 1-8-75

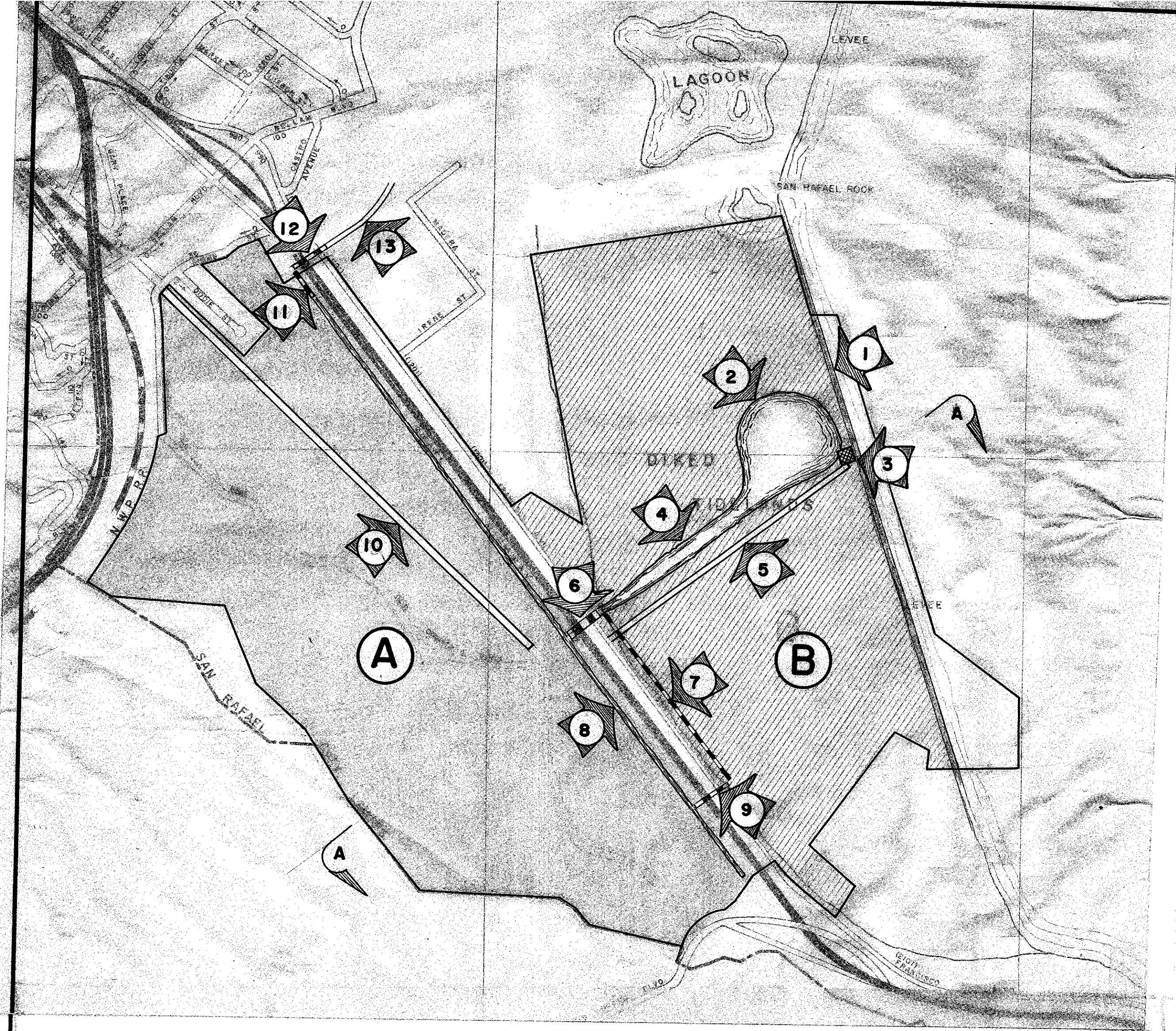
REVISION NO. 1 - Revised catwalk detail, Added notes, provided notes in plate for lifting shackles 6/4/73 - ATC.
 REVISION NO. 2 - Moved Junction Box, added note No. 4 & note for treated wood piles. Added note on planking under pipe.
 REVISION NO. 3 - REVISED PROFILE STATIONS TO MATCH IMPROVEMENT PLAN SHEET 17 ~ 7/3/73 ATC.

JUNCTION BOX & CATWALK DETAILS
 EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT NO. 1
 JOB NO. 15C-68 SCALE AS SHOWN MAY, 1973

CONRAD & OVERKAMPF
 CIVIL ENGINEERS INC.
 1000 14TH ST.
 SAN RAFAEL, CALIF. 94901

AP 1-0-11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

AD-32



SITE PLAN

LEGEND

- ① DISTRICT BOUNDARY
- ② EXISTING LEVEE
- ③ PONDING AREA TO BE CONST.
- ④ PUMP STATION TO BE CONST.
- ⑤ CHANNEL TO BE CONST.
- ⑥ ACCESS ROAD TO BE CONST.
- ⑦ EXISTING 11' x 5' CULVERT W/TIDE GATES
- ⑧ NEW CULVERT TO BE CONST.
- ⑨ CHANNEL TO BE CONST.
- ⑩ EXISTING 5' x 5' CULVERT
- ⑪ ROAD TO BE CONST.
- ⑫ CULVERT TO BE CONST.
- ⑬ EXISTING 5' x 5' CULVERT
- ⑭ EXISTING CHANNEL TO KERNER PUMP STA.

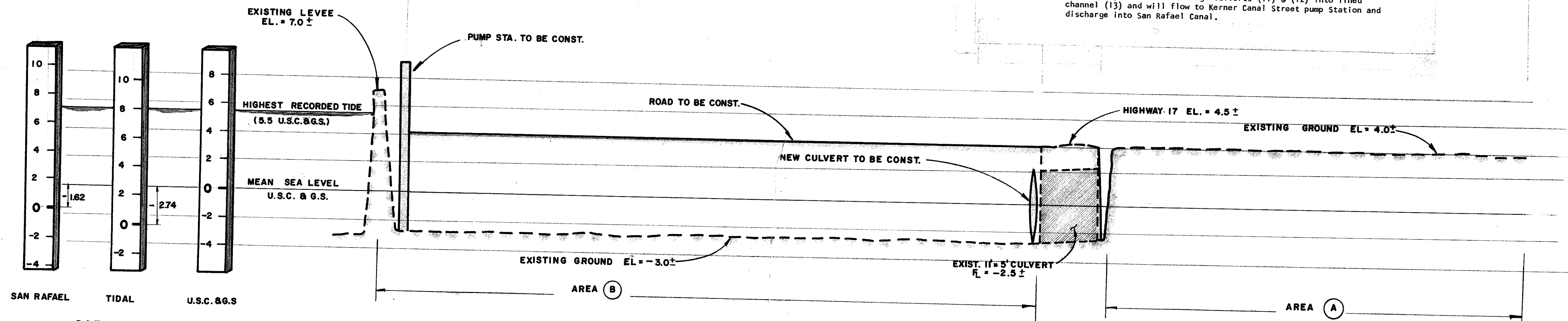
OPERATION OF SYSTEM

NORMAL CONDITIONS

1. Area (A) drains to channel (8)
2. Channel (8) drains through culverts (6) & (9)
3. Culvert (9) drains through (7) to channel (4)
4. Culvert (6) drains into channel (4)
5. Channel (4) drains into ponding area (2)
6. Ponding area (2) is pumped down by the pump station at location (3). The pump station will discharge over the levee into the bay.

FLOODED CONDITIONS (BREAK IN LEVEE)

1. If area (B) should flood from a break in levee, tide gates on culvert (6) will close and prevent water from flowing back into area (A).
2. Area (A) will continue to drain into channel (8)
3. Channel (8) will drain through culverts (11) & (12) into lined channel (13) and will flow to Kerner Canal Street pump Station and discharge into San Rafael Canal.



SECTION A-A

AD 32

CITY OF SAN RAFAEL CALIFORNIA				SHEET 10 OF 1	
ENGINEERING DEPARTMENT				APPROVED BY	
EAST SAN RAFAEL DRAINAGE ASSESSMENT DISTRICT NUMBER 1				CITY ENGINEER	
PROPOSED				DATE	CASE
NO.	REVISED	BY	APVD.	DWG	
COMPILED					
DRAWN					
CHECKED					
DATE					
				SCALE	